

# Ri-2530/3530/4030

Contains:

AD-63 DF-78 J-1402 PF-70 RA-1 PF-75 Fax System (C) Fax System (F)



Published in Apr '03 2DF70951 Revision 1

# 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.

# 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 REC-OMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU RÉBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

# Safety precautions

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

# Safety warnings and precautions

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

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

# Symbols

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





Warning of risk of electric shock.



Warning of high temperature.

 $\odot$  indicates a prohibited action. The specific prohibition is shown inside the symbol.



Disassembly prohibited.

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



General action required.



Remove the power plug from the wall outlet.



Always ground the copier.

# **1. Installation Precautions**

# WARNING

• Do not use a power supply with a voltage other than that specified. Avoid multiple connections to one outlet: they may cause fire or electric shock. When using an extension cable, always check that it is adequate for the rated current.



• Connect the ground wire to a suitable grounding point. Not grounding the copier may cause fire or electric shock. Connecting the earth wire to an object not approved for the purpose may cause explosion or electric shock. Never connect the ground cable to any of the following: gas pipes, lightning rods, ground cables for telephone lines and water pipes or faucets not approved by the proper authorities.

# CAUTION:

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

# 2. Precautions for Maintenance

# WARNING

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

# 

- Wear safe clothing. If wearing loose clothing or accessories such as ties, make sure they are safely secured so they will not be caught in rotating sections.....
- Use utmost caution when working on a powered machine. Keep away from chains and belts. .....
- Handle the fixing section with care to avoid burns as it can be extremely hot. .....
- Check that the fixing unit thermistor, heat and press rollers are clean. Dirt on them can cause
   abnormally high temperatures.
- Do not remove the ozone filter, if any, from the copier except for routine replacement.....

Do not pull on the AC power cord or connector wires on high-voltage components when removing them; always hold the plug itself.	)
Do not route the power cable where it may be stood on or trapped. If necessary, protect it with a cable cover or other appropriate item.	)
Treat the ends of the wire carefully when installing a new charger wire to avoid electric leaks	
Remove toner completely from electronic components.	7
Run wire harnesses carefully so that wires will not be trapped or damaged	)
• After maintenance, always check that all the parts, screws, connectors and wires that were removed, have been refitted correctly. Special attention should be paid to any forgotten connector, trapped wire and missing screws.	
Check that all the caution labels that should be present on the machine according to the instruction handbook are clean and not peeling. Replace with new ones if necessary.	
<ul> <li>Handle greases and solvents with care by following the instructions below:</li></ul>	)
Never dispose of toner or toner bottles in fire. Toner may cause sparks when exposed directly to fire in a furnace, etc.	)
Should smoke be seen coming from the copier, remove the power plug from the wall outlet immediately.	•

# 3. Miscellaneous

# WARNING

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



# CONTENTS

1-1 Spec	cifications	
•	Specifications	1-1-1
	Parts names and their functions	
	(1) Copier	
	(2) Operation panel	
1-1-3	Machine cross section	
	Drive system	
	(1) Drive system 1 (drive motor and eject motor drive trains)	
	(2) Drive system 2 (paper feed motor drive train)	
1-2 Han	dling Precautions	
1-2-1	Drum	. 1-2-1
1-2-2	Toner	. 1-2-1
1-2-3	Installation environment	. 1-2-1
1-3 Insta	Illation	
1-3-1	Unpacking and installation	. 1-3-1
	(1) Installation procedure	. 1-3-1
1-3-2	Setting initial copy modes	. 1-3-9
1-3-3	Copier management	1-3-10
	(1) Using the copier management mode	1-3-10
	(2) Setting department management items	1-3-11
	(3) Copy default	1-3-11
	(4) Machine default	1-3-13
	(5) Report	1-3-14
	(6) Language	1-3-14
1-3-4	Installing the key counter (option)	1-3-15
1-3-5	Installing the drawer heater (option)	1-3-17
1-3-6	Installing the paper feed desk (option)	1-3-18
1-3-7	Installing the large paper deck (option)	1-3-21
1-3-8	Installing the saddle finisher/switchback unit (option)	1-3-25
1-3-9	Installing the sheet-through document holder (option)	1-3-34
	Installing the Facsimile System (option)	
	Installing the Printing System (option)	
	Installing the Scanning System (option)	
1-3-13	Installing the duplex unit (option)	1-3-48
	Installing the built-in finisher (option)	
	Installing the job separator (option)	
	Installing the Network Facsimile System (option)	
1-4 Mair	itenance Mode	
1-4-1	Maintenance mode	. 1-4-1
	(1) Executing a maintenance item	1-4-1
	(2) Maintenance mode item list	. 1-4-2
	(3) Contents of maintenance mode items	. 1-4-5
	bleshooting	
1-5-1	Paper misfeed detection	. 1-5-1
	(1) Paper misfeed indication	
	(2) Paper misfeed detection conditions	. 1-5-3
	(3) Paper misfeeds	1-5-16
1-5-2	Self-diagnosis	1-5-27
	(1) Self-diagnostic function	1-5-27
	(2) Self-diagnostic codes	1-5-28

1-5-3	Image formation problems		
	(1) No image appears (entirely white).	1	-5-43
	(2) No image appears (entirely black).		
	(3) Image is too light	1	-5-45
	(4) Background is visible.	1	-5-45
	(5) A white line appears longitudinally	1	-5-45
	(6) A black line appears longitudinally	1	-5-46
	(7) A black line appears laterally.	1	-5-46
	(8) One side of the copy image is darker than the other.	1	-5-46
	(9) Black dots appear on the image.	1	-5-47
(	10) Image is blurred	1	-5-47
(	11) The leading edge of the image is consistently misaligned with the original.	1	-5-47
(	12) The leading edge of the image is sporadically misaligned with the original.	1	-5-48
(	13) Paper creases.	1	-5-48
(	14) Offset occurs	1	-5-48
(	15) Image is partly missing.	1	-5-49
(	16) Fixing is poor.	1	-5-49
(	17) Image is out of focus.	1	-5-49
(	18) Image center does not align with the original center.	1	-5-50
	19) Image is not square.		
	Electrical problems		
	(1) The machine does not operate when the main switch is turned on		
	(2) The drive motor does not operate (C2000).		
	(3) The paper feed motor does not operate (C2500).		
	(4) The eject motor does not operate.		
	(5) The upper lift motor does not operate (C1010).		
	(6) The lower lift motor does not operate (C1020).		
	(7) The scanner motor does not operate.		
	(8) Cooling fan motor 1 does not operate.		
	(9) Cooling fan motor 2 does not operate.		
(	10) Cooling fan motor 3 does not operate.		
	11) Cooling fan motor 4 does not operate.		
	12) Cooling fan motor 5 does not operate.		
	13) Cooling fan motor 6 does not operate.		
	14) Cooling fan motor 7 does not operate.		
`	15) Cooling fan motor 8 does not operate.		
	16) Cooling fan motor 9 does not operate.		
	17) The upper paper feed clutch does not operate		
	18) The lower paper feed clutch does not operate.		
	19) Feed clutch 1 does not operate.		
	20) Feed clutch 2 does not operate.		
	21) Feed clutch 3 does not operate.		
	22) The bypass paper feed clutch does not operate.		
	23) The bypass feed clutch does not operate.		
	24) The registration clutch does not operate.		
`	25) The feedshift solenoid does not operate.		
	26) The toner feed solenoid does not operate.		
	27) The cleaning lamp does not turn on.		
	28) The exposure lamp does not turn on.		
	29) The exposure lamp does not turn off		
	30) The fixing heater does not turn on (C6000).		
	31) The fixing heater does not turn off		
	32) Main charging is not performed.		
	33) Transfer charging is not performed.		
	34) No developing bias is output.		
	35) The original size is not detected.		
	36) The original size is not detected correctly.		
	37) The touch panel keys do not work.		
(	The todon panor to yo do not work.	- 1	0-00

when paper is present in the upper drawer.       15-56         (30) The message requesting paper to be loaded is shown       15-56         (40) The message requesting paper to be loaded is shown       15-56         (41) The size of paper in the upper drawer is not displayed correctly.       15-57         (42) The size of paper in the upper drawer is not displayed correctly.       15-57         (43) The printing width of the paper converging riking section is indicated       15-57         (44) The message requesting overs to be closed is displayed       15-55         (45) The message requesting overs to be closed is displayed       15-55         (46) Otheres.       15-55         (40) Otheres.       15-55         (11) No primary paper feed.       15-55         (12) No secondary paper feed.       15-56         (2) No secondary paper feed.       15-55         (3) Skewed paper feed.       15-56         (5) Multiple sheets of paper rare fed at one time.       15-56         (5) Multiple sheets of paper rare fed at one time.       15-56         (6) Apper jams.       15-56         (7) Toner drops on the paper conveying path.       15-66         (14) Precautions for assembly       16-1         (15) Precautions for assembly and disassembly.       16-1         (16) Clasship and refitting the towarding, pap	(38) The message requesting paper to be loaded is shown	
when paper is present in the lower drawer.         15-55           (40) The message requesting paper to be loaded is shown         15-56           (41) The size of paper in the upper drawer is not displayed correctly.         15-57           (43) The printing width of the paper on the bypass tray is not detected correctly.         15-57           (44) The size of paper in the lower drawer is not displayed correctly.         15-57           (45) The printing width of the paper on the bypass tray is not detected correctly.         15-57           (44) Daper jam in the paper feed, paper conveying over are closed.         15-56           (45) The message requesting covers to be closed is displayed         15-56           (46) Others.         15-56           (5 No secondary paper feed.         15-55           (41) No primary paper feed.         15-56           (5) Multiple sheets of paper are fed at one time.         15-56           (5) Multiple sheets of paper are fed at one time.         15-56           (5) Multiple sheets of paper are fed at one time.         15-56           (6) Paper jams.         15-56           (7) Toner drops on the paper conveying path.         15-56           (8) Abnormal noise is heard.         15-56           (1-6 Assembly and Disassembly         1-6-1           (1) Precautions         1-6-56           (2) Running	when paper is present in the upper drawer.	1-5-56
<ul> <li>(40) The message requesting paper to be loaded is shown</li> <li>(41) The size of paper in the upper drawer is not displayed correctly.</li> <li>(42) The size of paper in the lower drawer is not displayed correctly.</li> <li>(43) The printing with of the paper on the bypass tray is not detected correctly.</li> <li>(44) A paper jam in the paper leed, paper conveying or King section is indicated</li> <li>(45) The message requesting covers to be closed is displayed</li> <li>(46) Others.</li> <li>(45) The message requesting covers to be closed is displayed</li> <li>(46) Others.</li> <li>(47) Other and conveying cover are closed.</li> <li>(46) Others.</li> <li>(47) Other and conveying cover are closed.</li> <li>(47) No primary paper feed.</li> <li>(47) The scanner does not travel.</li> <li>(47) The conders of paper are fed at one time.</li> <li>(48) Others.</li> <li>(49) Anormal noise is heard.</li> <li>(49) Anormal noise is heard.</li> <li>(40) Paper jams.</li> <li>(41) Precautions for assembly and disassembly.</li> <li>(41) Precautions for assembly and disassembly.</li> <li>(41) Precautions for assembly and disassembly.</li> <li>(42) Paper feed section</li> <li>(43) Adjusting the loading edge registration or image printing.</li> <li>(44) Closed paper are for and clutch replacement.</li> <li>(45) Otaching and refitting the forwarding, paper feed and separation pulleys.</li> <li>(45) Paper feed section</li> <li>(45) Adjusting the leading edge registration or image printing.</li> <li>(46) Closed Section</li> <li>(46) Otaching and refitting the scanner wire miss.</li> <li>(47) Otaching and refitting the scanner wire miss.</li> <li>(48) Adjusting the leading edge registration or image printing.</li> <li>(46)</li></ul>	(39) The message requesting paper to be loaded is shown	
<ul> <li>(40) The message requesting paper to be loaded is shown</li> <li>(41) The size of paper in the upper drawer is not displayed correctly.</li> <li>(42) The size of paper in the lower drawer is not displayed correctly.</li> <li>(43) The printing with of the paper on the bypass tray is not detected correctly.</li> <li>(44) A paper jam in the paper leed, paper conveying or King section is indicated</li> <li>(45) The message requesting covers to be closed is displayed</li> <li>(46) Others.</li> <li>(45) The message requesting covers to be closed is displayed</li> <li>(46) Others.</li> <li>(47) Other and conveying cover are closed.</li> <li>(46) Others.</li> <li>(47) Other and conveying cover are closed.</li> <li>(47) No primary paper feed.</li> <li>(47) The scanner does not travel.</li> <li>(47) The conders of paper are fed at one time.</li> <li>(48) Others.</li> <li>(49) Anormal noise is heard.</li> <li>(49) Anormal noise is heard.</li> <li>(40) Paper jams.</li> <li>(41) Precautions for assembly and disassembly.</li> <li>(41) Precautions for assembly and disassembly.</li> <li>(41) Precautions for assembly and disassembly.</li> <li>(42) Paper feed section</li> <li>(43) Adjusting the loading edge registration or image printing.</li> <li>(44) Closed paper are for and clutch replacement.</li> <li>(45) Otaching and refitting the forwarding, paper feed and separation pulleys.</li> <li>(45) Paper feed section</li> <li>(45) Adjusting the leading edge registration or image printing.</li> <li>(46) Closed Section</li> <li>(46) Otaching and refitting the scanner wire miss.</li> <li>(47) Otaching and refitting the scanner wire miss.</li> <li>(48) Adjusting the leading edge registration or image printing.</li> <li>(46)</li></ul>	when paper is present in the lower drawer.	1-5-56
when paper is present on the bypass tray. 15-55 (41) The size of paper in the lower drawer is not displayed correctly. 15-57 (42) The size of paper in the lower drawer is not displayed correctly. 15-57 (43) The printing with of the paper on the bypass tray is not detected correctly. 15-57 (44) A paper jam in the paper feed, paper conveying or txing section is indicated when the main switch is turned on. 15-55 (46) The message requesting covers to be closed is displayed when the front cover and conveying cover are closed. 15-55 (46) Others. 15-55 (46) Others. 15-55 (46) Others. 15-55 (46) Others. 15-55 (5) No secondary paper feed. 15-55 (5) No secondary paper feed. 15-55 (6) No secondary paper feed. 15-55 (6) Nultiple sheets of paper are fed at one time. 15-55 (6) Paper jams. 15-55 (6) Paper jams. 15-55 (7) Toner drops on the paper conveying path. 15-56 (7) Toner drops on the paper conveying path. 15-56 (8) Abnormal noise is heard. 15-56 (9) Repare free detion a time. 15-56 (1) Paper feed second travel. 15-56 (2) No primary paper feed and the time. 15-56 (3) Adjusting the target on the paper conveying path. 15-66 (4) The cautions for assembly and disassembly 16-17 (1) Precautions are assembly and disassembly 16-61 (2) Running a maintenance item 16-6 (2) Running a maintenance item 16-6 (3) Adjusting the torwarding, paper feed and separation pulleys. 16-61 (3) Adjusting the and guide registration of mage printing 16-11 (3-1) Adjusting the leading edge registration of mage printing 16-11 (3-1) Adjusting the leading edge registration of mage printing 16-11 (3-1) Adjusting the examer wires 16-61 (3) Adjusting the anary to false canner wires 16-61 (4) Adjusting the scanner wires 16-61 (5) Adjusting the scanner wires 16-61 (6) Adjusting the scanner wires 16-		
(41) The size of paper in the upper drawer is not displayed correctly.       15-55         (42) The size of paper in the lower drawer is not displayed correctly.       15-57         (43) The printing with of the paper conveying or txing section is indicated       15-57         (44) A paper jam in the paper feed, paper conveying or txing section is indicated       15-57         (45) The message requesting covers to be closed is displayed       15-56         (46) Others.       15-56         (46) Others.       15-56         (47) No primary paper feed.       15-56         (18) No primary paper feed.       15-56         (21) No secondary paper feed.       15-56         (3) Stewed paper are fed at one time.       15-56         (4) The scanner does not travel.       15-56         (5) Multiple sheets of paper are red dt at one time.       15-56         (7) Toner drops on the paper conveying path.       15-66         1-6 Assembly and Disassembly       1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (2) Paper Jams.       1-6-2         (4) The scanner difting the bypass separation. bypass paper feed and bypass forwarding pulleys       1-6-1         (5) For the scanner wires       1-6-1         (7) Detaching and refitting the bypass separation. bypass papare feed and bypass forwarding pulleys       1		
<ul> <li>(42) The size of paper in the lower drawer is not displayed correctly.</li> <li>(43) The printing width of the paper on the bypass tray is not detected correctly.</li> <li>(44) A paper jam in the paper feed, paper conveying or fixing section is indicated when the main switch is turned on.</li> <li>(45) The message requesting covers to be closed is displayed when the front cover and conveying cover are closed.</li> <li>(46) Others.</li> <li>(45) The size equesting covers to be closed is displayed when the front cover and conveying cover are closed.</li> <li>(46) Others.</li> <li>(47) No primary paper feed.</li> <li>(48) No secondary paper feed.</li> <li>(49) No secondary paper feed.</li> <li>(40) No secondary paper feed.</li> <li>(41) No secondary paper feed.</li> <li>(41) The scanner does not travel.</li> <li>(41) The scanner does not travel.</li> <li>(55) Multiple sheets of paper are fed at one time.</li> <li>(56) Multiple sheets of paper are fed at one time.</li> <li>(41) The scanner does not paper conveying path.</li> <li>(42) The activity of the paper conveying path.</li> <li>(42) The activity of the paper conveying path.</li> <li>(41) Precautions for assembly and disassembly.</li> <li>(42) Hanning a maintenance item.</li> <li>(42) Running an diretifting the forwarding, paper feed and separation pulleys.</li> <li>(43) Claustment atter roller and diuch replacement.</li> <li>(44) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys.</li> <li>(45) Adjusting the leading edge registration of image printing.</li> <li>(45) Adjusting the leading edge registration or memory image printing.</li> <li>(45) Adjusting the asomar edge registration or memory image printing.</li> <li>(45) Adjusting the asomar edge registration or memory image printing.</li> <li>(45) Adjusting the asomar wires.</li> <li>(45) Adjusting the scanner wires.</li> <li>(45)</li></ul>		
<ul> <li>(43) The printing width of the paper on the bypass tray is not detected correctly.</li> <li>(44) A paper jam in the paper feed, paper conveying or fixing section is indicated when the main switch is turned on.</li> <li>(45) The message requesting covers to be closed is displayed when the front cover and conveying cover are closed.</li> <li>(46) Others.</li> <li>(46) Others.</li> <li>(46) Others.</li> <li>(46) Chers.</li> <li>(46) Start cover and conveying cover are closed.</li> <li>(47) No primary paper feed.</li> <li>(48) Start paper feed.</li> <li>(49) No secondary paper feed.</li> <li>(49) No secondary paper feed.</li> <li>(40) The scanner does not travel.</li> <li>(41) The scanner does not travel.</li> <li>(41) The scanner does not travel.</li> <li>(42) The scanner does not travel.</li> <li>(43) The primary paper feed.</li> <li>(44) The scanner does not travel.</li> <li>(45) Stewed paper feed.</li> <li>(45) Paper jams.</li> <li>(45) To ner drops on the paper conveying path.</li> <li>(46) Chers.</li> <li>(47) To ner drops on the paper conveying path.</li> <li>(46) Chers.</li> <li>(48) Abnormal noise is heard.</li> <li>(46) Chers.</li> <li>(48) Abnormal noise is heard.</li> <li>(46) Chers.</li> <li>(46) Chers.</li> <li>(47) Precautions.</li> <li>(46) Chers.</li> <li>(48) Abnormal noise is heard.</li> <li>(46) Chers.</li> <li>(47) Precautions on assembly and disassembly.</li> <li>(46) Chers.</li> <li>(48) Abnormal noise is heard.</li> <li>(46) Chers.</li> <li>(47) Precautions and refitting the forwarding, paper feed and separation pulleys.</li> <li>(46) Chers.</li> <li>(47) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys.</li> <li>(46) Chers.</li> <li>(47) Adjusting the leading edge registration of mage printing.</li> <li>(47) Chers.</li> <li>(48) Adjusting the ender in the paper.</li> <li>(46) Chers.</li> <li>(49) Adjusting the ender or printing.</li> <li>(46) Chers.</li> <li>(40) Chers.</li> <li>(41) Detaching and refitting the scanner wires.</li> <li></li></ul>		
(44) A paper jam in the paper feed, paper conveying or fixing section is indicated       1.5-57         (45) The message requesting covers to be closed is displayed       1.5-56         when the front cover and conveying cover are closed.       1.5-56         (46) Others.       1.5-56         (1-5-5 Mechanical problems       1.5-56         (2) No secondary paper feed.       1.5-56         (3) Skewed paper feed.       1.5-56         (4) The scanner does not travel.       1.5-56         (5) Multiple sheets of paper are fed at one time.       1.5-56         (6) Paper jams.       1.5-56         (7) Toner drops on the paper conveying path.       1.5-66         (8) Abnormal noise is heard.       1.5-66         (1-6 Assembly and Disassembly       1.6-1         (1-7) Precautions for assembly and disassembly.       1.6-1         (2) Running a maintenance item       1.6-2         (2) Paper feed section       1.6-3         (2) Detaching and refitting the torwarding, paper feed and separation pulleys.       1.6-3         (2) Detaching and refitting the forwarding, paper feed and separation pulleys.       1.6-4         (3) Adjusting the leading edge registration of image printing.       1.6-16         (3) Detaching and refitting the forwarding paper feed and separation pulleys.       1.6-51         (3) Adju		
when the main switch is turned on.       1-5-57         (45) The message requesting covers to be closed is displayed       1-5-56         when the front cover and conveying cover are closed.       1-5-56         (46) Others.       1-5-56         1-5-5 Mechanical problems       1-5-56         (1) No primary paper feed.       1-5-56         (3) Skewed paper feed.       1-5-56         (4) The scanner does not travel.       1-5-56         (5) Multiple sheets of paper are fed at one time.       1-5-56         (6) Paper jams.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-66         (8) Abnormal noise is heard.       1-5-66         (8) Abnormal noise is heard.       1-5-67         (1-6) Assembly and Disassembly       1-6-1         (1-7) Precautions for assembly and disassembly.       1-6-1         (2) Running a maintenance item       1-6-56         (3) Adjusting the flow dige registration, bypass papar feed and bypass forwarding pulleys.       1-6-57         (3) Adjusting the leading edge registration of image printing.       1-6-16         (3) Adjusting the leading edge registration for memory image printing.       1-6-17         (3-1) Adjusting the and ulth replacement       1-6-57         (3-2) Adjusting the anount of slack in the paper.       1-6-16		
(45) The message requesting covers to be closed is displayed       1-5-56         (46) Others.       1-5-56         1-5-5 Mechanical problems       1-5-56         (1-5) No primary paper feed.       1-5-56         (2) No secondary paper feed.       1-5-56         (3) Skewed paper feed.       1-5-56         (4) The scanner does not travel.       1-5-56         (5) Multiple sheets of paper are fed at one time.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-66         1-6 Assembly and Disassembly       1-6-11         (1) Precautions for assembly and disassembly.       1-6-11         (1) Precautions for assembly and disassembly.       1-6-12         (2) Running a maintenance item       1-6-26         (1) Detaching and refitting the forwarding, paper feed and separation pulleys.       1-6-32         (2) Detaching and refitting the forwarding, paper feed and separation pulleys.       1-6-51         (3) Adjustment after roller and clutch replacement       1-6-52         (3) Adjusting the leading edge registration of image printing.       1-6-11         (3-2) Adjusting the earter line of image printing.       1-6-11         (3-3) Adjusting the anount of slack in the paper.       1-6-16         (2) Detaching an		1 5 57
when the front cover and conveying cover are closed		1-5-57
(46) Others.       1-5-56         1-5-5       Mechanical problems       1-5-56         (1) No primary paper feed.       1-5-55         (2) No secondary paper feed.       1-5-56         (3) Skewed paper feed.       1-5-56         (4) The scanner does not travel.       1-5-56         (5) Multiple sheets of paper are fed at one time.       1-5-56         (6) Paper jams.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-66         1-6 Assembly and Disassembly       1-5-67         1-6 Assembly and Disassembly       1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (2) Running a maintenance item       1-6-2         1-6-2 Paper feed section       1-6-2         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjusting the leading edge registration of image printing       1-6-11         (3-3) Adjusting the leading edge registration of image printing       1-6-11         (3-3) Adjusting the earner wires       1-6-11         (3-4) Adjusting the earner wires       1-6-11         (3-5) Adjusting the anount of slack in the paper       1-6-12		4 5 50
1-5-5 Mechanical problems       1-5-55         (1) No primary paper feed       1-5-55         (2) No secondary paper feed       1-5-55         (3) Skewed paper feed       1-5-55         (4) The scanner does not travel.       1-5-55         (5) Multiple sheets of paper are fed at one time.       1-5-55         (6) Paper jams.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-66         (8) Abnormal noise is heard.       1-5-60         1-6 Assembly and Disassembly       1-6-1         1-6.1 Precautions for assembly and disassembly.       1-6-1         (2) Running a maintenance item       1-6-52         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-32         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-16         (3) Adjusting the leading edge registration of image printing       1-6-11         (3-1) Adjusting the center line of image printing       1-6-11         (3-3) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the earter line of image printing       1-6-14         (3-3) Adjusting the earter line of image printing       1-6-16         (3-4) Adjusting the earter line of image printing       1-6-16         (4-1) Detaching and refi		
(1) No primary paper feed.       1-5-55         (2) No secondary paper feed.       1-5-55         (3) Skewed paper feed.       1-5-55         (4) The scanner does not travel.       1-5-55         (5) Multiple sheets of paper are fed at one time.       1-5-55         (6) Paper jams.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-56         (8) Abnormal noise is heard.       1-5-60         (8) Abnormal noise is heard.       1-6-61         (1) Precautions       1-6-1         (2) Running a maintenance item       1-6-5         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-5         (1) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjusting the leading edge registration of image printing       1-6-16         (3-1) Adjusting the canter line of image printing       1-6-17         (3-3) Adjusting the canter line of image printing       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16         (3-4) Adjusting the anner wires       1-6-17         (3-5		
(2) No secondary paper feed.       1-5-55         (3) Skewed paper feed.       1-5-55         (4) The scanner does not travel.       1-5-55         (5) Multiple sheets of paper are fed at one time.       1-5-55         (6) Paper jams.       1-5-55         (7) Toner drops on the paper conveying path.       1-5-56         (8) Abnormal noise is heard.       1-5-60 <b>1-6 Assembly and Disassembly</b> 1-6-1         1-6-1 Precautions for assembly and disassembly       1-6-1         (1) Precautions an anitenance item       1-6-5         (2) Running a maintenance item       1-6-5         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-5         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjusting the leading edge registration of image printing       1-6-16         (3) Adjusting the leading edge registration for memory image printing       1-6-16         (3) Adjusting the center line of image printing       1-6-16         (3) Adjusting the acanner wires       1-6-16         (1) Detaching and refitting the exposure lamp       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2-2		
(3) Skewed paper feed       1-5-55         (4) The scanner does not travel.       1-5-55         (5) Multiple sheets of paper are fed at one time.       1-5-55         (6) Paper jams.       1-5-55         (7) Toner drops on the paper conveying path.       1-5-56         (8) Abnormal noise is heard.       1-5-66 <b>1-6 Assembly and Disassembly</b> 1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (2) Running a maintenance item       1-6-2         (1-6) Paper feed section       1-6-3         (1) Detaching and refitting the bypass separation, bypass paper feed and bypass forwarding pulleys       1-6-5         (3) Adjustment after roller and clutch replacement       1-6-10         (3-1) Adjusting the leading edge registration for image printing       1-6-11         (3-2) Adjusting the center line of image printing       1-6-12         (3-3) Adjusting the canner wires       1-6-12         (3-4) Adjusting the examer wires       1-6-14         (3-5) Adjusting the acanner wires       1-6-12         (3-6) Adjusting the scanner wires       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16 <td></td> <td></td>		
(4) The scanner does not travel.       1-5-55         (5) Multiple sheets of paper are fed at one time.       1-5-55         (6) Paper jams.       1-5-55         (7) Toner drops on the paper conveying path.       1-5-56         (8) Abnormal noise is heard.       1-5-66         (8) Abnormal noise is heard.       1-5-66         1-6 Assembly and Disassembly       1-6-1         (1) Precautions for assembly and disassembly       1-6-1         (2) Running a maintenance item       1-6-2         1-6-2 Paper feed section       1-6-2         (2) Detaching and refitting the forwarding, paper feed and separation pulleys.       1-6-5         (3) Adjusting and refitting the bypass separation. bypass papaer feed and       bypass forwarding pulleys.         (3) Adjusting the leading edge registration of image printing.       1-6-16         (3) Adjusting the leading edge registration for memory image printing.       1-6-16         (3) Adjusting the earting ins for printing.       1-6-16         (3) Adjusting the amount of slack in the paper.       1-6-16         (4) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the laser scanner unit       1-6-16		
(5) Multiple sheets of paper are fed at one time.       1-5-56         (6) Paper jams.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-60         (8) Abnormal noise is heard.       1-5-60 <b>1-6 Assembly and Disassembly</b> 1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (2) Running a maintenance item       1-6-2         (2) Running and refitting the forwarding, paper feed and separation pulleys.       1-6-3         (2) Detaching and refitting the forwarding, paper feed and separation pulleys.       1-6-5         (3) Adjusting and refitting the forwarding pulleys.       1-6-5         (3) Adjusting the leading edge registration of image printing.       1-6-10         (3-1) Adjusting the leading edge registration of for memory image printing.       1-6-16         (3-2) Adjusting the leading edge registration of for memory image printing.       1-6-16         (3-3) Adjusting the amount of slack in the paper.       1-6-16         (1) Detaching and refitting the exposure lamp.       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the laser scanner unit (reference).       1-6-16	(3) Skewed paper feed	1-5-59
(6) Paper jams.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-56         (7) Toner drops on the paper conveying path.       1-5-66         (8) Abnormal noise is heard.       1-5-66         (9) Abnormal noise is heard.       1-5-66         1-6 Assembly and Disassembly       1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (2) Running a maintenance item       1-6-2         (2) Running an difting the forwarding, paper feed and separation pulleys.       1-6-3         (1) Detaching and refitting the forwarding, paper feed and separation pulleys.       1-6-5         (3) Adjusting and refitting the torwarding, paper feed and separation pulleys.       1-6-5         (3) Adjusting the rand clutch replacement       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-11         (3-2) Adjusting the enter line of image printing       1-6-12         (3-4) Adjusting the margins for printing       1-6-13         (3-5) Adjusting the amount of slack in the paper       1-6-16         (1) Detaching and refitting the exposure lamp       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the laser scanner unit       1-6-16	(4) The scanner does not travel	1-5-59
(7) Toner drops on the paper conveying path.       1-5-60         (8) Abnormal noise is heard.       1-5-60         (9) Abnormal noise is heard.       1-5-60         1-6 Assembly and Disassembly       1-6-1         (1) Precautions       1-6-1         (2) Running a maintenance item       1-6-2         1-6-2 Paper feed section       1-6-2         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjusting the leading edge registration of image printing       1-6-10         (3-1) Adjusting the leading edge registration for memory image printing       1-6-11         (3-2) Adjusting the leading edge registration for memory image printing       1-6-12         (3-4) Adjusting the earter line of image printing       1-6-12         (3-5) Adjusting the amount of slack in the paper       1-6-14         (3-6) Adjusting the aconner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the ISU (reference)       1-6-12         (4) Adjusting the scanner wires       1-6-16         (2-2) Refitting the ISU (reference)       1-6-22	(5) Multiple sheets of paper are fed at one time	1-5-59
(8) Abnormal noise is heard.       1-5-60         1-6 Assembly and Disassembly       1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (1) Precautions       1-6-2         (2) Running a maintenance item       1-6-2         (2) Running a maintenance item       1-6-3         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjusting the leading edge registration of image printing       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-11         (3-3) Adjusting the leading edge registration for memory image printing       1-6-12         (3-4) Adjusting the manunt of slack in the paper       1-6-12         (3-5) Adjusting the amount of slack in the paper       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the laser scanner unit       1-6-22         (2) Detaching and refitting the laser scanner unit (reference)       1-6-12         (3) Detaching and refitting the laser scanner unit (reference)       1-6-22         (4) Adjusting the position of the scanner in the main scanning direction       1	(6) Paper jams	1-5-59
(8) Abnormal noise is heard.       1-5-60         1-6 Assembly and Disassembly       1-6-1         (1) Precautions for assembly and disassembly.       1-6-1         (1) Precautions       1-6-2         (2) Running a maintenance item       1-6-2         (2) Running a maintenance item       1-6-3         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjusting the leading edge registration of image printing       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-11         (3-3) Adjusting the leading edge registration for memory image printing       1-6-12         (3-4) Adjusting the manunt of slack in the paper       1-6-12         (3-5) Adjusting the amount of slack in the paper       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the laser scanner unit       1-6-22         (2) Detaching and refitting the laser scanner unit (reference)       1-6-12         (3) Detaching and refitting the laser scanner unit (reference)       1-6-22         (4) Adjusting the position of the scanner in the main scanning direction       1	(7) Toner drops on the paper conveying path.	
1-6 Assembly and Disassembly       1-6-1         1 Precautions for assembly and disassembly       1-6-1         (1) Precautions       1-6-1         (2) Running a maintenance item       1-6-2         1-6-2 Paper feed section       1-6-3         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjustment after roller and clutch replacement       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-11         (3-2) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the enter line of image printing       1-6-14         (3-5) Adjusting the amount of slack in the paper       1-6-14         (3-5) Adjusting the amount of slack in the paper       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the laser scanner unit       1-6-16         (2-2) Refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the laser scanner unit (reference)       1-6-22         (4) Adjusting the scanner wires       1-6-16         (2-2) Refitting the SU (reference)       1-6-22         (5) Adjusting the position of the scanner in the main scann	(8) Abnormal noise is heard.	
1-6-1       Precautions for assembly and disassembly       1-6-1         (1)       Precautions       1-6-1         (2)       Running a maintenance item       1-6-2         1-6-2       Paper feed section       1-6-3         (1)       Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2)       Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3)       Adjusting the leading edge registration of image printing       1-6-10         (3-1)       Adjusting the leading edge registration for memory image printing       1-6-11         (3-2)       Adjusting the leading edge registration for memory image printing       1-6-12         (3-4)       Adjusting the center line of image printing       1-6-16         (3-5)       Adjusting the amount of slack in the paper       1-6-16         (3-5)       Adjusting the exonner wires       1-6-16         (2)       Detaching and refitting the exonner wires       1-6-16         (2)       Detaching and refitting the scanner wires       1-6-16         (2)       Detaching and refitting the laser scanner unit       1-6-12         (2-2)       Refitting the laser scanner unit (reference)       1-6-12         (3)       Adjusting the scanner wires		
1-6-1       Precautions for assembly and disassembly       1-6-1         (1)       Precautions       1-6-1         (2)       Running a maintenance item       1-6-2         1-6-2       Paper feed section       1-6-3         (1)       Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2)       Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3)       Adjusting the leading edge registration of image printing       1-6-10         (3-1)       Adjusting the leading edge registration for memory image printing       1-6-11         (3-2)       Adjusting the leading edge registration for memory image printing       1-6-12         (3-4)       Adjusting the center line of image printing       1-6-16         (3-5)       Adjusting the amount of slack in the paper       1-6-16         (3-5)       Adjusting the exonner wires       1-6-16         (2)       Detaching and refitting the exonner wires       1-6-16         (2)       Detaching and refitting the scanner wires       1-6-16         (2)       Detaching and refitting the laser scanner unit       1-6-12         (2-2)       Refitting the laser scanner unit (reference)       1-6-12         (3)       Adjusting the scanner wires	1-6 Assembly and Disassembly	
(1) Precautions       1-6-1         (2) Running a maintenance item       1-6-2         1-6-2 Paper feed section       1-6-3         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjustment after roller and clutch replacement       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-11         (3-2) Adjusting the leading edge registration for memory image printing       1-6-12         (3-3) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the amount of slack in the paper       1-6-14         (3-5) Adjusting the acanner wires       1-6-15         (1) Detaching and refitting the scanner wires       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the laser scanner unit       1-6-16         (2-1) Detaching and refitting the laser scanner unit       1-6-16         (2-1) Detaching and refitting the laser scanner unit       1-6-12         (3) Detaching and refitting the ISU (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) A		1-6-1
<ul> <li>(2) Running a maintenance item</li></ul>		
1-6-2       Paper feed section       1-6-3         (1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjustment after roller and clutch replacement       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-10         (3-2) Adjusting the leading edge registration for memory image printing       1-6-11         (3-3) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the amount of slack in the paper       1-6-16         (3-5) Adjusting the amount of slack in the paper       1-6-16         (1) Detaching and refitting the scanner wires       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the position of the Scanner in the auxiliary scanning direction       1-6-22         (7) Adjusting the longitudinal squareness (reference)       1-6-22         (8) Adjusting magnification of t		
(1) Detaching and refitting the forwarding, paper feed and separation pulleys       1-6-3         (2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys       1-6-5         (3) Adjustment after roller and clutch replacement.       1-6-10         (3-1) Adjusting the leading edge registration of image printing.       1-6-10         (3-2) Adjusting the leading edge registration for memory image printing.       1-6-11         (3-3) Adjusting the center line of image printing.       1-6-12         (3-4) Adjusting the amount of slack in the paper.       1-6-13         (3-5) Adjusting the amount of slack in the paper.       1-6-16         (1) Detaching and refitting the exposure lamp.       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the laser scanner unit (reference)       1-6-22         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the longitudinal squareness (reference)       1-6-22         (7) Adjusting the longitudinal squareness (reference)       1-6-22         (8) Adjusting the scanner leading edge registration       1-6-22 <td></td> <td></td>		
<ul> <li>(2) Detaching and refitting the bypass separation, bypass papaer feed and bypass forwarding pulleys</li> <li>1-6-5</li> <li>(3) Adjustment after roller and clutch replacement</li> <li>1-6-10</li> <li>(3-1) Adjusting the leading edge registration of image printing</li> <li>1-6-11</li> <li>(3-2) Adjusting the leading edge registration for memory image printing</li> <li>1-6-12</li> <li>(3-4) Adjusting the center line of image printing</li> <li>1-6-13</li> <li>(3-5) Adjusting the amount of slack in the paper</li> <li>1-6-14</li> <li>1-6-3 Optical section</li> <li>1-6-15</li> <li>(1) Detaching and refitting the exposure lamp</li> <li>1-6-16</li> <li>(2-2) Refitting the scanner wires</li> <li>1-6-17</li> <li>(3) Detaching and refitting the laser scanner unit</li> <li>1-6-610</li> <li>(2-2) Refitting the laser scanner unit (reference)</li> <li>1-6-12</li> <li>(4) Adjusting the longitudinal squareness (reference)</li> <li>1-6-22</li> <li>(5) Detaching and refitting the ISU (reference)</li> <li>1-6-22</li> <li>(6) Adjusting the longitudinal squareness (reference)</li> <li>1-6-22</li> <li>(7) Adjusting the longitudinal squareness (reference)</li> <li>1-6-22</li> <li>(1) Adjusting the scanner in the main scanning direction</li> <li>1-6-22</li> <li>(1) Adjusting the scanner leading edge registration</li> <li>1-6-23</li> <li>(1) Adjusting the scanner leading edge registration</li> <li>1-6-24</li> <li>(1) Adjusting the margins for scanning an original on the contact glass</li> <li>1-6-33</li> <li>(1) Detaching and refitting the drum unit</li> <li>1-6-33</li> <li>(2) Detaching and refitting the drum unit</li> <li>1-6-33</li> <li>(3) Detaching and refitting the drum unit</li> <li>1-6-33</li> <li>(4) Detaching and refitting the drum unit</li> </ul>		
bypass forwarding pulleys       1-6-5         (3) Adjustment after roller and clutch replacement       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-10         (3-2) Adjusting the leading edge registration for memory image printing       1-6-11         (3-2) Adjusting the leading edge registration for memory image printing       1-6-12         (3-4) Adjusting the center line of image printing       1-6-13         (3-5) Adjusting the margins for printing       1-6-13         (3-5) Adjusting the amount of slack in the paper       1-6-15         (1) Detaching and refitting the exposure lamp       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-22         (4) Adjusting the skew of the laser scanner unit       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the position of the ISU (reference)       1-6-22         (7) Adjusting the scanner in the auxiliary scanning direction       1-6-22         (8) Adjusting magnification of the scanner in the auxiliary scanning direction       1-6-22         (9) Adjusting the scanner leading edge registration       1-6-22     <		
(3) Adjustment after roller and clutch replacement       1-6-10         (3-1) Adjusting the leading edge registration of image printing       1-6-10         (3-2) Adjusting the leading edge registration for memory image printing       1-6-11         (3-3) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the margins for printing       1-6-12         (3-5) Adjusting the amount of slack in the paper       1-6-14         1-6-3 Optical section       1-6-15         (1) Detaching and refitting the exposure lamp       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-16         (2-2) Refitting the scanner wires       1-6-16         (2-2) Refitting the laser scanner unit (reference)       1-6-22         (4) Adjusting the position of the ISU (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the longitudinal squareness (reference)       1-6-22         (7) Adjusting the longitudinal squareness (reference)       1-6-22         (10) Adjusting the scanner center line       1-6-32         (11) Adjusting the scanner center line       1-6-32<		
(3-1) Adjusting the leading edge registration of image printing       1-6-10         (3-2) Adjusting the leading edge registration for memory image printing       1-6-11         (3-3) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the margins for printing       1-6-12         (3-4) Adjusting the mangins for printing       1-6-13         (3-5) Adjusting the amount of slack in the paper       1-6-16         (1) Detaching and refitting the exposure lamp       1-6-16         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the laser scanner unit       1-6-22         (3) Detaching and refitting the laser scanner unit       1-6-22         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the position of the scanner in the main scanning direction       1-6-22         (7) Adjusting the longitudinal squareness (reference)       1-6-22         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-22         (10) A		
(3-2) Adjusting the leading edge registration for memory image printing       1-6-11         (3-3) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the margins for printing       1-6-13         (3-5) Adjusting the amount of slack in the paper       1-6-14         1-6-3 Optical section       1-6-15         (1) Detaching and refitting the exposure lamp       1-6-16         (2-1) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-16         (2-2) Refitting the scanner wires       1-6-16         (2-1) Detaching and refitting the laser scanner unit       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-22         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the position of the ISU (reference)       1-6-22         (7) Adjusting the longitudinal squareness (reference)       1-6-22         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-22         (9) Adjusting the scanner center line       1-6-32         (10) Adjusting the scanner center line <td></td> <td></td>		
(3-3) Adjusting the center line of image printing       1-6-12         (3-4) Adjusting the margins for printing       1-6-13         (3-5) Adjusting the amount of slack in the paper       1-6-14         1-6-3 Optical section       1-6-15         (1) Detaching and refitting the exposure lamp       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the laser scanner unit       1-6-20         (4) Adjusting the skew of the laser scanner unit       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the longitudinal squareness (reference)       1-6-22         (7) Adjusting the longitudinal squareness (reference)       1-6-22         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-22         (9) Adjusting the scanner leading edge registration       1-6-22         (11) Adjusting the		
(3-4) Adjusting the margins for printing1-6-13(3-5) Adjusting the amount of slack in the paper1-6-141-6-3 Optical section1-6-15(1) Detaching and refitting the exposure lamp1-6-15(2) Detaching and refitting the scanner wires1-6-16(2-1) Detaching the scanner wires1-6-16(2-2) Refitting the scanner wires1-6-16(2-2) Refitting the scanner wires1-6-17(3) Detaching and refitting the laser scanner unit1-6-22(4) Adjusting the skew of the laser scanner unit (reference)1-6-22(5) Detaching and refitting the ISU (reference)1-6-22(6) Adjusting the position of the ISU (reference)1-6-22(7) Adjusting the longitudinal squareness (reference)1-6-22(8) Adjusting magnification of the scanner in the main scanning direction1-6-22(9) Adjusting the scanner leading edge registration1-6-22(10) Adjusting the scanner center line1-6-32(11) Adjusting the margins for scanning an original on the contact glass1-6-33(11) Detaching and refitting the drum unit1-6-32(2) Detaching and refitting the main charger unit1-6-32		
(3-5) Adjusting the amount of slack in the paper       1-6-14         1-6-3 Optical section       1-6-15         (1) Detaching and refitting the exposure lamp       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-22         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-23         (6) Adjusting the position of the ISU (reference)       1-6-25         (7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-27         (9) Adjusting the scanner center line       1-6-32         (10) Adjusting the scanner center line       1-6-33         (11) Adjusting the margins for scanning an original on the contact glass       1-6-32         (11) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the main charger unit       <	(3-3) Adjusting the center line of image printing	1-6-12
1-6-3       Optical section       1-6-15         (1) Detaching and refitting the exposure lamp       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-20         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-23         (6) Adjusting the position of the ISU (reference)       1-6-25         (7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-22         (10) Adjusting the scanner center line       1-6-32         (11) Adjusting the scanner center line       1-6-33         (11) Adjusting the margins for scanning an original on the contact glass       1-6-33         (11) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the drum unit       1-6-32	(3-4) Adjusting the margins for printing	1-6-13
(1) Detaching and refitting the exposure lamp       1-6-15         (2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-22         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-22         (6) Adjusting the position of the ISU (reference)       1-6-26         (7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-28         (10) Adjusting the scanner leading edge registration       1-6-32         (11) Adjusting the scanner center line       1-6-32         (11) Adjusting the margins for scanning an original on the contact glass       1-6-32         (11) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the drum unit       1-6-32	(3-5) Adjusting the amount of slack in the paper	
(2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-20         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-23         (6) Adjusting the position of the ISU (reference)       1-6-26         (7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-28         (10) Adjusting the scanner center line       1-6-29         (11) Adjusting the scanner center line       1-6-32         (11) Adjusting the margins for scanning an original on the contact glass       1-6-32         (1) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the drum unit       1-6-32		
(2) Detaching and refitting the scanner wires       1-6-16         (2-1) Detaching the scanner wires       1-6-16         (2-2) Refitting the scanner wires       1-6-17         (3) Detaching and refitting the laser scanner unit       1-6-20         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-23         (6) Adjusting the position of the ISU (reference)       1-6-26         (7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-28         (10) Adjusting the scanner center line       1-6-29         (11) Adjusting the scanner center line       1-6-32         (11) Adjusting the margins for scanning an original on the contact glass       1-6-32         (1) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the drum unit       1-6-32	(1) Detaching and refitting the exposure lamp	
(2-1) Detaching the scanner wires1-6-16(2-2) Refitting the scanner wires1-6-17(3) Detaching and refitting the laser scanner unit1-6-20(4) Adjusting the skew of the laser scanner unit (reference)1-6-22(5) Detaching and refitting the ISU (reference)1-6-23(6) Adjusting the position of the ISU (reference)1-6-26(7) Adjusting the longitudinal squareness (reference)1-6-26(8) Adjusting magnification of the scanner in the main scanning direction1-6-27(9) Adjusting magnification of the scanner in the auxiliary scanning direction1-6-28(10) Adjusting the scanner leading edge registration1-6-30(11) Adjusting the margins for scanning an original on the contact glass1-6-311-6-4Drum section1-6-32(1) Detaching and refitting the drum unit1-6-32(2) Detaching and refitting the main charger unit1-6-32		
(2-2) Refitting the scanner wires1-6-17(3) Detaching and refitting the laser scanner unit1-6-20(4) Adjusting the skew of the laser scanner unit (reference)1-6-22(5) Detaching and refitting the ISU (reference)1-6-23(6) Adjusting the position of the ISU (reference)1-6-26(7) Adjusting the longitudinal squareness (reference)1-6-26(8) Adjusting magnification of the scanner in the main scanning direction1-6-27(9) Adjusting magnification of the scanner in the auxiliary scanning direction1-6-28(10) Adjusting the scanner center line1-6-29(11) Adjusting the margins for scanning an original on the contact glass1-6-311-6-4 Drum section1-6-32(1) Detaching and refitting the drum unit1-6-32(2) Detaching and refitting the main charger unit1-6-32		
(3) Detaching and refitting the laser scanner unit       1-6-20         (4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-23         (6) Adjusting the position of the ISU (reference)       1-6-26         (7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-27         (9) Adjusting magnification of the scanner in the auxiliary scanning direction       1-6-28         (10) Adjusting the scanner leading edge registration       1-6-29         (11) Adjusting the margins for scanning an original on the contact glass       1-6-31         1-6-4       Drum section       1-6-32         (1) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the main charger unit       1-6-32		
(4) Adjusting the skew of the laser scanner unit (reference)       1-6-22         (5) Detaching and refitting the ISU (reference)       1-6-23         (6) Adjusting the position of the ISU (reference)       1-6-26         (7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-28         (9) Adjusting magnification of the scanner in the auxiliary scanning direction       1-6-28         (10) Adjusting the scanner leading edge registration       1-6-29         (11) Adjusting the scanner center line       1-6-30         (11) Adjusting the margins for scanning an original on the contact glass       1-6-32         (11) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the main charger unit       1-6-32		
(5) Detaching and refitting the ISU (reference)1-6-23(6) Adjusting the position of the ISU (reference)1-6-26(7) Adjusting the longitudinal squareness (reference)1-6-26(8) Adjusting magnification of the scanner in the main scanning direction1-6-27(9) Adjusting magnification of the scanner in the auxiliary scanning direction1-6-28(10) Adjusting the scanner leading edge registration1-6-29(11) Adjusting the scanner center line1-6-30(11) Adjusting the margins for scanning an original on the contact glass1-6-311-6-4 Drum section1-6-32(1) Detaching and refitting the drum unit1-6-32(2) Detaching and refitting the main charger unit1-6-32		
(6) Adjusting the position of the ISU (reference)1-6-25(7) Adjusting the longitudinal squareness (reference)1-6-26(8) Adjusting magnification of the scanner in the main scanning direction1-6-27(9) Adjusting magnification of the scanner in the auxiliary scanning direction1-6-28(10) Adjusting the scanner leading edge registration1-6-29(11) Adjusting the scanner center line1-6-30(11) Adjusting the margins for scanning an original on the contact glass1-6-311-6-4 Drum section1-6-32(1) Detaching and refitting the drum unit1-6-32(2) Detaching and refitting the main charger unit1-6-32		
(7) Adjusting the longitudinal squareness (reference)       1-6-26         (8) Adjusting magnification of the scanner in the main scanning direction       1-6-27         (9) Adjusting magnification of the scanner in the auxiliary scanning direction       1-6-28         (10) Adjusting the scanner leading edge registration       1-6-29         (11) Adjusting the scanner center line       1-6-30         (11) Adjusting the margins for scanning an original on the contact glass       1-6-31         1-6-4 Drum section       1-6-32         (1) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the main charger unit       1-6-32		
<ul> <li>(8) Adjusting magnification of the scanner in the main scanning direction</li></ul>		
(9) Adjusting magnification of the scanner in the auxiliary scanning direction1-6-28(10) Adjusting the scanner leading edge registration1-6-29(11) Adjusting the scanner center line1-6-30(11) Adjusting the margins for scanning an original on the contact glass1-6-311-6-4Drum section1-6-32(1) Detaching and refitting the drum unit1-6-32(2) Detaching and refitting the main charger unit1-6-32		
<ul> <li>(10) Adjusting the scanner leading edge registration</li></ul>		
(11) Adjusting the scanner center line       1-6-30         (11) Adjusting the margins for scanning an original on the contact glass       1-6-31         1-6-4 Drum section       1-6-32         (1) Detaching and refitting the drum unit       1-6-32         (2) Detaching and refitting the main charger unit       1-6-32		
(11) Adjusting the margins for scanning an original on the contact glass1-6-311-6-4 Drum section1-6-32(1) Detaching and refitting the drum unit1-6-32(2) Detaching and refitting the main charger unit1-6-32		
1-6-4       Drum section       1-6-32         (1)       Detaching and refitting the drum unit       1-6-32         (2)       Detaching and refitting the main charger unit       1-6-32		
<ul> <li>(1) Detaching and refitting the drum unit</li></ul>		
(2) Detaching and refitting the main charger unit 1-6-32		
	(1) Detaching and refitting the drum unit	1-6-32
(3) Detaching and refitting the drum separation claw assemblies	(2) Detaching and refitting the main charger unit	1-6-32

1-0-1	5 Developing section	
	(1) Detaching and refitting the developing unit	
1-6-	3 Transfer section	1-6-35
	(1) Detaching and refitting the transfer roller assembly	1-6-35
1-6-	7 Fixing section	1-6-36
	(1) Detaching and refitting the fixing unit	
	(2) Detaching and refitting the heat roller separation claws	
	(3) Detaching and refitting the press roller	
	(4) Detaching and refitting the fixing heater M and S	
	(5) Detaching and refitting the heat roller	
	<ul><li>(6) Detaching and refitting the fixing unit thermistor</li></ul>	
1-7 Ro	uirements on PCB Replacement	
	1 Upgrading the firmware on the main PCB	171
	2 Replacing the backup ROM	
1-7-	3 Adjustment-free variable resisters (VR)	1-7-3
2-1 Mo	chanical construction	
		0 1 1
	1 Paper feed section	
	2 Main charging section	
2-1-	3 Optical section	
	(1) Original scanning	
	(2) Image printing	
2-1-	Developing section	
	(1) Formation of magnetic brush	2-1-13
	(2) Computing the absolute humidity	
	(3) Single component developing system 2	
2-1-	5 Transfer and separation sections	2-1-15
	6 Cleaning and charge erasing sections	
2-1-	7 Fixing section	2-1-18
2-1-	3 Eject and switchback sections	2-1-20
2-1-	3 Eject and switchback sections	2-1-20
	3 Eject and switchback sections ctrical Parts Layout	2-1-20
2-2 Ele	ctrical Parts Layout	
2-2 Ele	ctrical Parts Layout 1 Electrical parts layout	2-2-1
2-2 Ele	ctrical Parts Layout 1 Electrical parts layout	2-2-1 2-2-1
2-2 Ele	ctrical Parts Layout 1 Electrical parts layout (1) PCBs (2) Switches and sensors	2-2-1 2-2-1 2-2-2
2-2 Ele	ctrical Parts Layout 1 Electrical parts layout	2-2-1 2-2-1 2-2-2 2-2-4
2-2 Ele	ctrical Parts Layout 1 Electrical parts layout (1) PCBs (2) Switches and sensors	2-2-1 2-2-1 2-2-2 2-2-4
2-2 Ele 2-2-	ctrical Parts Layout 1 Electrical parts layout	2-2-1 2-2-1 2-2-2 2-2-4
2-2 Ele 2-2- 2-3 Ope	ctrical Parts Layout 1 Electrical parts layout	2-2-1 2-2-1 2-2-2 2-2-4 2-2-5
2-2 Ele 2-2- 2-3 Ope 2-3-	ctrical Parts Layout 1 Electrical parts layout	2-2-1 2-2-1 2-2-2 2-2-4 2-2-5 2-3-1
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3-	ctrical Parts Layout           1         Electrical parts layout           (1)         PCBs           (2)         Switches and sensors           (3)         Motors           (4)         Other electrical components           eration of the PCBs           1         Power source PCB           2         Main PCB	2-2-1 2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3-	ctrical Parts Layout           1         Electrical parts layout           (1)         PCBs           (2)         Switches and sensors           (3)         Motors           (4)         Other electrical components           eration of the PCBs           1         Power source PCB           2         Main PCB           3         Operation unit PCB	2-2-1 2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3-	ctrical Parts Layout          1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB	2-2-1 2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3-	ctrical Parts Layout           1         Electrical parts layout           (1)         PCBs           (2)         Switches and sensors           (3)         Motors           (4)         Other electrical components           eration of the PCBs           1         Power source PCB           2         Main PCB           3         Operation unit PCB	2-2-1 2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3-	ctrical Parts Layout 1 Electrical parts layout	2-2-1 2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3-	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB	2-2-1 2-2-2 2-2-4 2-2-5 2-3-4 2-3-4 2-3-13 2-3-18 2-3-20
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         pendixes         ng chart No. 1	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18 2-3-20 2-4-1
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         pendixes         ng chart No. 1         ng chart No. 2	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18 2-3-20 2-4-1 2-4-2
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-1 2-3-13 2-3-13 2-3-18 2-3-20 2-4-1 2-4-2 2-4-3
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         pendixes         ng chart No. 1         ng chart No. 2         ng chart No. 3         ng chart No. 4	2-2-1 2-2-2 2-2-2 2-2-5 2-3-1 2-3-1 2-3-13 2-3-18 2-3-20 2-4-1 2-4-2 2-4-3 2-4-4
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         bendixes         ng chart No. 1         ng chart No. 2         ng chart No. 3         ng chart No. 4         ng chart No. 5	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-1 2-3-4 2-3-18 2-3-20 2-4-1 2-4-2 2-4-3 2-4-4 2-4-5
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         mg chart No. 1         ng chart No. 2         ng chart No. 3         ng chart No. 4         ng chart No. 5         ng chart No. 5         ng chart No. 6	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18 2-3-20 2-4-1 2-4-1 2-4-2 2-4-3 2-4-5 2-4-6
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         wendixes         ng chart No. 1         ng chart No. 2         ng chart No. 4         ng chart No. 5         ng chart No. 5         ng chart No. 6         ng chart No. 7	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18 2-3-20 2-4-1 2-4-2 2-4-2 2-4-3 2-4-5 2-4-6 2-4-7
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         mg chart No. 1         ng chart No. 2         ng chart No. 3         ng chart No. 4         ng chart No. 5         ng chart No. 5         ng chart No. 6	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-4 2-3-13 2-3-18 2-3-20 2-4-1 2-4-2 2-4-2 2-4-3 2-4-5 2-4-6 2-4-7
2-2 Ele 2-2- 2-3 Ope 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         wendixes         ng chart No. 1         ng chart No. 2         ng chart No. 4         ng chart No. 5         ng chart No. 5         ng chart No. 6         ng chart No. 7	2-2-1 2-2-2 2-2-4 2-2-5 2-3-1 2-3-1 2-3-13 2-3-13 2-3-13 2-3-18 2-3-20 2-4-1 2-4-2 2-4-2 2-4-5 2-4-6 2-4-7 2-4-8
2-2 Ele 2-2- 2-3 2-3- 2-3- 2-3- 2-3- 2-3- 2-3-	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         pendixes         ng chart No. 1         ng chart No. 2         ng chart No. 3         ng chart No. 4         ng chart No. 5         ng chart No. 6         ng chart No. 7         ng chart No. 7         ng chart No. 8	2-2-1 2-2-2 2-2-2 2-2-5 2-3-1 2-3-1 2-3-13 2-3-13 2-3-13 2-3-13 2-3-13 2-3-20 2-4-1 2-4-2 2-4-2 2-4-5 2-4-5 2-4-7 2-4-8 2-4-9
2-2 Ele 2-2- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         Paration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         wendixes         ng chart No. 1         ng chart No. 2         ng chart No. 3         ng chart No. 4         ng chart No. 5         ng chart No. 6         ng chart No. 7         ng chart No. 7         ng chart No. 8         ng chart No. 9	2-2-1 2-2-2 2-2-2 2-2-5 2-3-1 2-3-1 2-3-13 2-3-13 2-3-18 2-3-20 2-4-1 2-4-2 2-4-2 2-4-3 2-4-5 2-4-6 2-4-7 2-4-8 2-4-9 2-4-10
2-2 Ele 2-2- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3- 2-3	ctrical Parts Layout         1 Electrical parts layout         (1) PCBs         (2) Switches and sensors         (3) Motors         (4) Other electrical components         eration of the PCBs         1 Power source PCB         2 Main PCB         3 Operation unit PCB         4 Scanner drive PCB         5 CCD PCB         wendixes         ng chart No. 1         ng chart No. 2         ng chart No. 4         ng chart No. 5         ng chart No. 5         ng chart No. 6         ng chart No. 7         ng chart No. 7         ng chart No. 8         ng chart No. 9         ng chart No. 9         ng chart No. 10	2-2-1 2-2-2 2-2-2 2-2-5 2-3-1 2-3-1 2-3-4 2-3-13 2-3-18 2-3-18 2-3-20 2-4-1 2-4-2 2-4-3 2-4-3 2-4-4 2-4-5 2-4-6 2-4-7 2-4-8 2-4-9 2-4-10 2-4-11

Maintenance parts list	2-4-15
Periodic maintenance procedures	2-4-16
Optional devices supplied parts list	2-4-18
General wiring diagram	2-4-20

Туре	
Copying system	
Originals	
	Maximum size: A3/11" × 17"
Original feed system	
Copy paper	Drawer: Plain paper (64 – 80 g/m²)
	Bypass table: Plain paper (60 – 160 g/m²)
	Special paper: Transparencies, tracing paper, colored paper, letterhead and
	envelopes (when using the printer function only)
	Note: Use the bypass table for special paper.
Copying sizes	
	Minimum: A6R/5 <sup>1</sup> /2" $\times$ 8 <sup>1</sup> /2" (When the bypass table is used)
Magnification ratios	Manual mode: 25 – 400%, 1% increments
	Auto copy mode: fixed ratios
	Metric
	1:1 ± 1.0%, 1:4.00/1:2.00/1:1.41/1:1.22/1:1.15/1:0.86/1:0.81/1:0.70/1:0.50/1:0.25
	Inch
	1:1 ± 1.0%, 1:4.00/1:2.00/1:1.29/1:1.21/1:0.78/1:0.64/1:0.50/1:0.25
Copy speed	At 100% magnification in copy mode:
	25 cpm copier
	A3/11" × 17": 15 copies/min.
	B4/8 <sup>1</sup> /2" × 14": 18 copies/min.
	A4/11" $\times$ 8 <sup>1</sup> / <sub>2</sub> ": 25 copies/min.
	A4R/8 <sup>1</sup> /2" × 11": 20 copies/min.
	35 cpm copier
	A3/11" × 17": 19 copies/min.
	B4/8 <sup>1</sup> /2" × 14": 23 copies/min.
	A4/11" $\times$ 8 <sup>1</sup> /2": 35 copies/min.
	A4R/ $8^{1}/_{2}$ × 11": 25 copies/min.
	40 cpm copier
	A3/11" × 17": 19 copies/min.
	B4/8 <sup>1</sup> /2" × 14": 23 copies/min. A4/11" × 8 <sup>1</sup> /2": 40 copies/min.
	A47/11 × $8^{7/2}$ : 40 copies/min. A4R/ $8^{1}/2$ " × 11": 25 copies/min.
First copy time	
	$\dots$ 60 s or less (room temperature 20°C/68°F, 65% RH)
	In preheat/energy saver mode: 30 s or less (room temperature 20°C/68°F, 65% RH)
	[priorty to power save]
	In preheat/energy saver mode: 10 s or less (room temperature 20°C/68°F, 65% RH)
	[priorty to recovery]
Paper feed system	
	Capacity:
	Drawers: 500 sheets
	Manual feed
	Capacity:
	Bypass: 200 sheets
Continuous copying	
Photoconductor	
	Single positive corona charging (500 µA)
Exposure light source	
Exposure scanning system	
	Dry, reverse developing (magnetic brush)
	Developer: 1-component, magnetism toner
	Developing bias: +1.72 kV AC
	Developing shift bias: 160 V
	Toner replenishing: automatic from a toner container
Transfer system	
	Separation electrode (60 or 10 $\mu$ A depending on the paper)
· •	

Fixing system	Heat source: halogen heaters (120 V specifications:main 600 W, sub 400W/ 220-240 V specifications:main 630 W, sub 420 W) Control temperature: 165°C/329°F (at normal ambient temperature)
	Abnormally high temperature protection device: 170°C/338°F thermostat
	Fixing pressure: 107.8 N
Charge erasing system	
Cleaning system	
	. Flat bed scanning by CCD image sensor
Bit map memory	
Image storage memory	
Resolution	1
Light source	
Dimensions	
	23" (W) × 25 <sup>2</sup> /5" (D) × 29 <sup>1</sup> /3" (H)
Weight	
Floor requirements	
	53 <sup>3</sup> /8" (W) × 25 <sup>2</sup> /5" (D)
Functions	. Self-diagnostics, preheat, automatic copy density control, original size detection, auto
	paper size selection function, auto magnification selection mode, zoom copy mode,
	standard copy mode, size zoom mode, photo mode, margin mode, page separation
	copy mode, border erase mode, layout copy, sort mode, copy management function,
	language selection function
Power source	
	. 220 – 240 V AC, 50/60 Hz, 4.5 A (Average)
Power consumption	. 1320 W (120V)
	1368W (220 – 240V)
Options	. STDF*, SRDF, paper feed desk, large paper deck, duplex unit, job separator, finisher,
	booklet stitcher, built-in finisher, key counter, fax board, printer board, network printer
	board, network scanner board
	*Optional for 25 cpm copier only.

## 1-1-2 Parts names and their functions

(1) Copier

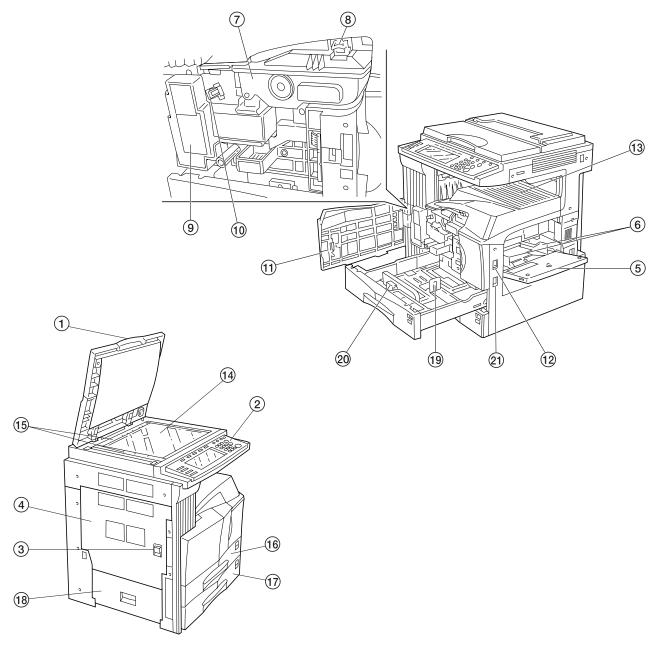


Figure 1-1-1

- 1 Original cover
- ② Operation panel
- ③ Conveying cover handle
- (4) Conveying cover
- (5) Bypass tray
- 6 Insert guides
- $(\overline{7})$  Toner container
- (a) Toner container release lever
- (9) Toner disposal tank
- (1) Cleaning shaft
- (1) Front cover

- (12) Main switch
- (13) Copy store section
- (14) Platen
- 15 Original size scales
- (16) Upper drawer
- (17) Lower drawer
- (18) Side cover
- (19) Length adjustment plate
- 20 Width adjustament lever
- (1) Handles for transport

## (2) Operation panel

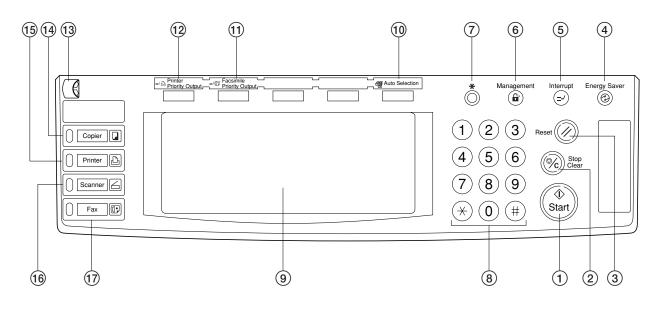
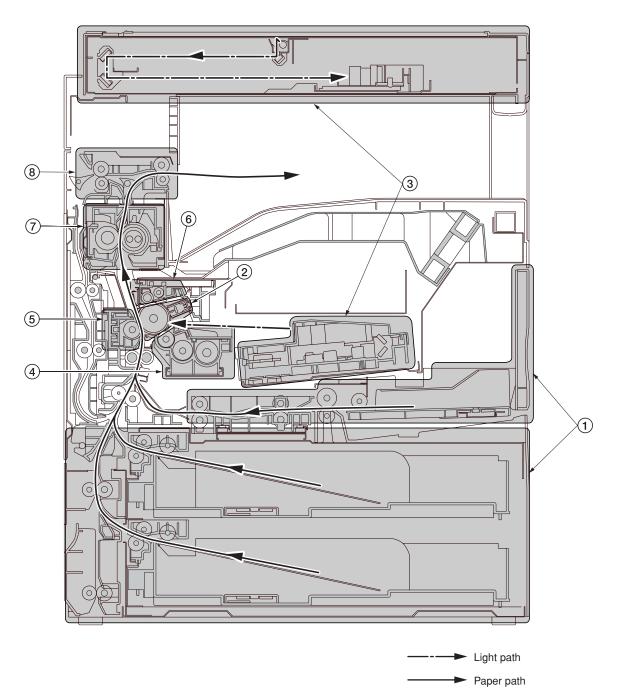


Figure 1-1-2

- ① Start key (Indicator)
- 2 Stop/clear key
- 3 Reset key
- (4) Energy Saver (preheat) key
- (5) Interrupt key (Indicator)
- 6 Management key
- ⑦ \* (Default) key
- 8 Numeric key
- (9) Touch panel

- 1 Auto selection key (Indicator)
- (1) Facsimile priority output key (Indicator)
- (12) Printer priority output key (Indicator)
- Brightness adjustment control dial
- (1) Copier key (Indicator)
- (15) Printer key (Indicator)
- (16) Scanner key (Indicator)
- Trax key (Indicator)

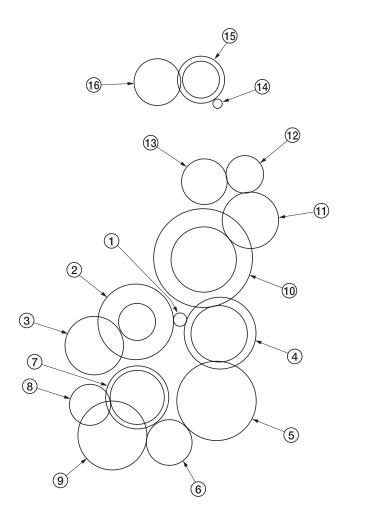




- 1) Paper feed section
- (2) Main charging section
- ③ Optical section
- ④ Developing section
  ⑤ Transfer and separation section
- 6 Cleaning and charge erasing section section
- (7) Fixing section
- (8) Eject and switchback section

# 1-1-4 Drive system

(1) Drive system 1 (drive motor and eject motor drive trains)



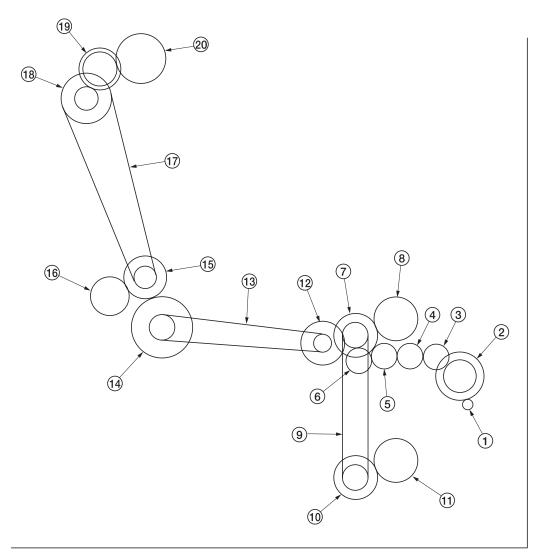
As viewed from machine rear



(	<ol> <li>Drive motor gear</li> </ol>
(	2) Drum gear Z76H/Z30H
(	3) Drum gear Z70H
(	4) Gear Z76H/Z35H
(	5) Gear Z50H
	6) Gear Z36S/Z31H
	7) Gear Z37H/28H
2	D Coor 72411

(8) Gear Z34H

(9) Registration clutch gear
(10) Gear Z63H/Z45S
(11) Gear Z37S
(12) Gear Z24S
(13) Joint gear Z32S
(14) Eject motor gear
(15) Gear Z47S/Z28S
(16) Eject gear Z30S



As viewed from machine rear

#### Figure 1-1-5

- ① Paper feed motor gear
- ② Gear Z76H/Z35S
- ③ Feed gear Z25
- ④ Feed gear Z25
- (5) Feed gear Z25
- 6 Feed gear Z25
- ⑦ Gear Z41S/Z24S/P30
- (8) Upper paper feed clutch gear
- 9 Paper feed drive belt
- (1) Gear Z41S/Z24S

- 1 Lower paper feed clutch gear
- 12 Gear Z41S/P15
- (13) Bypass drive belt
- (1) Gear Z60S/P20
- (15) Gear Z41S/P18
- (16) Gear Z40S/Z32S
- (17) Container drive belt
- 18 Gear Z24S/P40
- (19) Gear Z40S/Z25S
- 20 Container gear

## 1-2-1 Drum

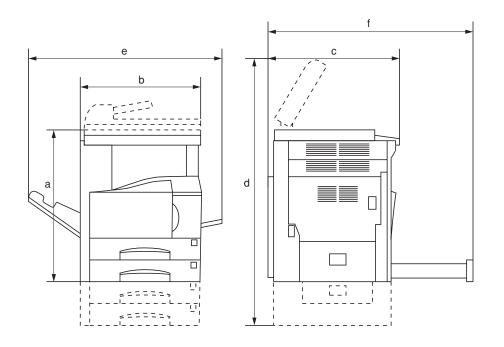
- Note the following when handling or storing the drum.
- When removing the drum unit, never expose the drum surface to strong direct light.
- Keep the drum at an ambient temperature between 0°C/32°F and 35°C/95°F and at a relative humidity not higher than 85% RH. Avoid abrupt changes in temperature and humidity.
- Avoid exposure to any substance which is harmful to or may affect the quality of the drum.
- Do not touch the drum surface with any object. Should it be touched by hands or stained with oil, clean it.

## 1-2-2 Toner

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

## 1-2-3 Installation environment

- 1. Temperature: 10 35°C/50 95°F
- 2. Humidity: 15 85%RH
- 3. Power supply: 120 V AC, 11 A
  - 220 240 V AC, 4.5 A (Average)
- 4. Power source frequency: 50 Hz ±0.3%/60 Hz ±0.3%
- 5. Installation location
  - Avoid direct sunlight or bright lighting. Ensure that the photoconductor will not be exposed to direct sunlight or other strong light when removing paper jams.
  - Avoid extremes of temperature and humidity, abrupt ambient temperature changes, and hot or cold air directed onto the machine.
  - Avoid dust and vibration.
  - Choose a surface capable of supporting the weight of the machine.
  - Place the machine on a level surface (maximum allowance inclination: 1°).
  - Avoid air-borne substances that may adversely affect the machine or degrade the photoconductor, such as mercury, acidic of alkaline vapors, inorganic gasses, NOx, SOx gases and chlorine-based organic solvents.
  - Select a room with good ventilation.
- 6. Allow sufficient access for proper operation and maintenance of the machine.
  - Machine front: 1000 mm/393/8" Machine rear: 300 mm/1113/16"
  - Machine right: 300 mm/1113/16" Machine left: 300 mm/1113/16"

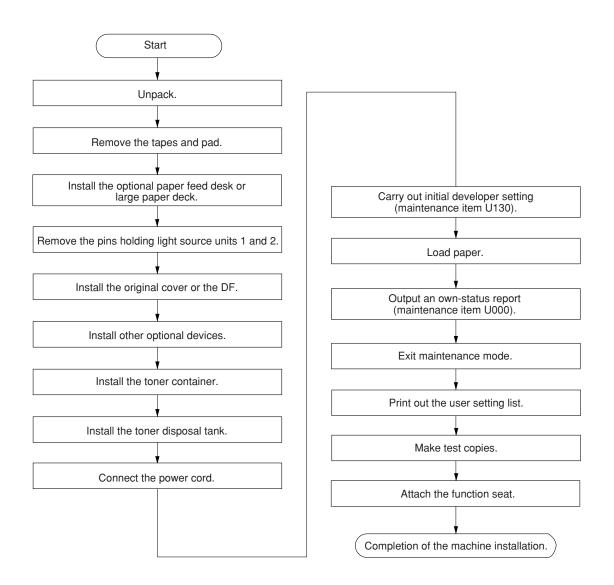


a: 745 mm/29<sup>5</sup>/16" b: 585 mm/23" c: 646 mm/25<sup>3</sup>/8" d: 1510 mm/59<sup>7</sup>/16" e: 1032 mm/40<sup>5</sup>/8" f: 961 mm/37<sup>13</sup>/16"

Figure 1-2-1 Installation dimensions

# 1-3-1 Unpacking and installation

#### (1) Installation procedure



## Moving the machine

2DF

When moving the machine, pull out the four handles for transport on the right and left sides and hold them.

\* For the left front handle for transport, open the door and push it into the machine before pulling out the handle.

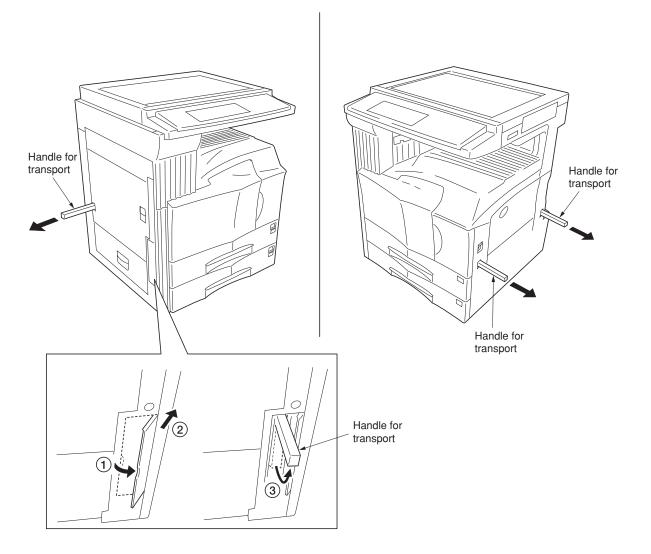
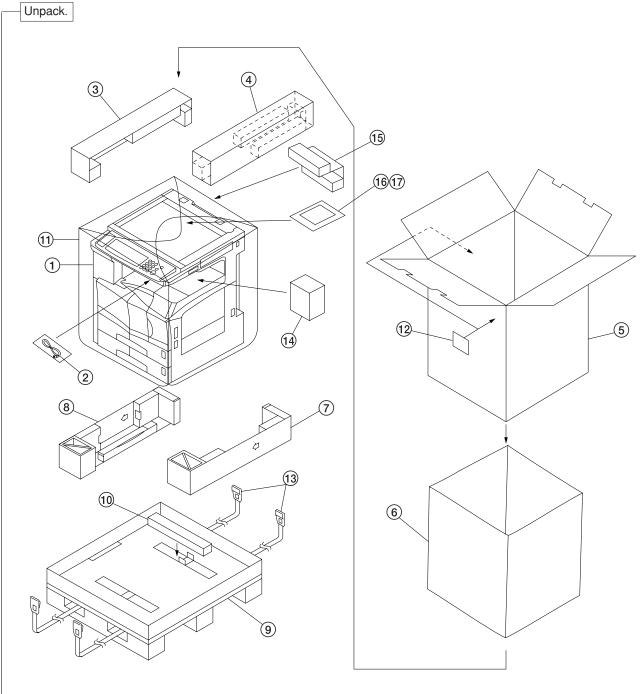
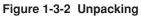


Figure 1-3-1





Copier
 Power cord
 Upper left pad
 Upper right pad
 Outer case
 Inner frame
 Lower right pad
 Lower left pad
 Skid

\*220-230 V specifications only.

(1) Bottom pad
(1) Machine cover
(1) Bar code labels
(13) Belt
(14) First sectors of the sector o

(14) Eject spacer(15) Spacer\*

16 Plastic bag
17 Operation guide

2DF

#### Remove the tapes and pad.

- 1. Remove the tapes holding the front cover, bypass tray, drawers and original detection switch.
- 2. Remove the pad at the eject section.

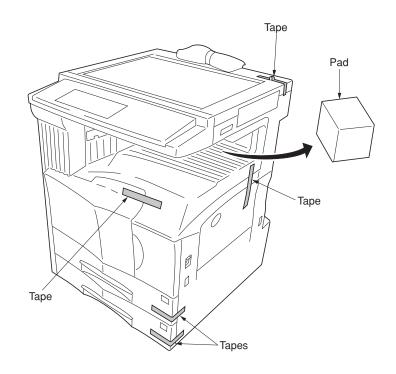
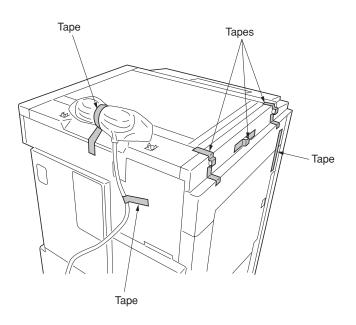
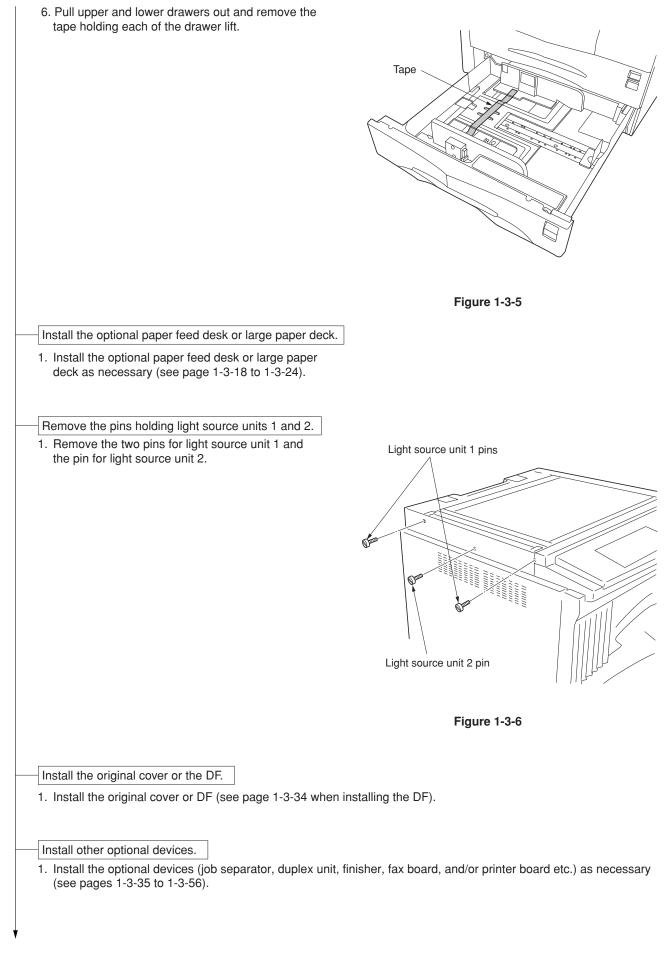


Figure 1-3-3

- 3. Remove the three tapes holding the pins for light source units 1 and 2.
- 4. Remove the tape holding the conveying cover.
- 5. Remove the two tapes holding the power cord.\* \*120 V specifications only.





Install the toner container.

- Open the front cover.
   Tap the top of the toner container five to six times.

3. Shake the toner container approximately 10 times in the horizontal direction to stir toner.

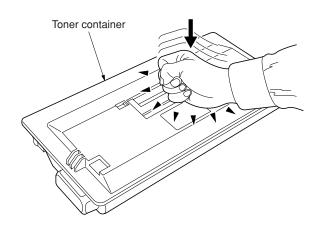
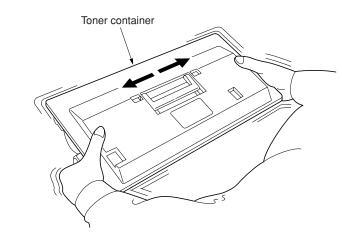
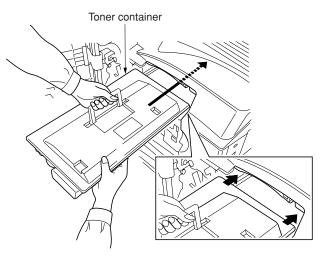


Figure 1-3-7





4. Gently push the toner container into the copier along the rails. \*Push the container all the way into the copier until it locks in place.



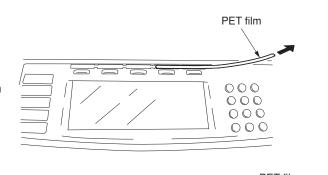
<ul> <li>1. Install the form disposal tank in the copier.</li> <li>2. Close the front cover.</li> <li>3. Connect the power cord.</li> <li>3. Connect the power cord to the connector on the copier.</li> <li>* 200-240 V specifications only.</li> <li>2. Insert the power cord to the connector on the copier.</li> <li>* 200-240 V specifications only.</li> <li>2. Insert the power plug into the wall outlet.</li> <li>Carry out initial developer setting (maintenance item U130).</li> <li>1. Turn the main switch on and enter the maintenance mode by entering *10871087* using the numeric keys.</li> <li>2. Enter *130* using the numeric keys and press the start key.</li> <li>3. Press the stop/clear key.</li> <li>Load paper.</li> <li>1. Load paper in the drawer.</li> <li>Cotiput an own-status report (maintenance item U000).</li> <li>1. Enter *000* using the numeric keys and press the start key.</li> <li>2. Select "MAINTENANCE" and press the start key.</li> <li>2. Select "MAINTENANCE" and press the start key.</li> <li>2. Select "MAINTENANCE" and press the start key.</li> <li>Ther *001* using the numeric keys and press the start key.</li> <li>The machine exits the maintenance mode.</li> <li>Print out the user setting list.</li> <li>1. Press the 'key to enter default setting and press the [Print form] key. The counter report will be output.</li> </ul>	<ul> <li>2. Close the front cover.</li> <li>2. Close the front cover.</li> <li>3. Consect the power cord.</li> <li>1. Connect the power cord.</li> <li>1. Connect the power cord to the connector on the copier.*</li> <li>*200-240 V specifications only.</li> <li>2. Insert the power plug into the wall outlet.</li> <li>Carry out initial developer setting (maintenance item U130).</li> <li>1. Turn the main switch on and enter the maintenance mode by entering *10871087" using the numeric keys.</li> <li>2. Enter *130" using the numeric keys and press the start key.</li> <li>3. Press the stark key to execute the maintenance item The drive stop kultin approximately 5 minutes.</li> <li>4. Press the stop/clear key.</li> <li>Load paper.</li> <li>1. Load paper in the drawer.</li> <li>Output an own-status report (maintenance item U000).</li> <li>1. Enter *000" using the numeric keys and press the start key.</li> <li>2. Select *MAINTENANCE" and press the start key to output a list of the current settings of the maintenance ite 3. Press the stop/clear key.</li> <li>Exit maintenance mode.</li> <li>Print out the user setting list.</li> </ul>	Install the toner disposal tank.	
Figure 1-3-10 Connect the power cord. Connect the power cord to the connector on the copier.* *200-240 V specifications only. Insert the power plug into the wall outlet. Carry out initial developer setting (maintenance item U130). Carry out initial developer setting (maintenance item U130). Turn the main switch on and enter the maintenance mode by entering "10871087" using the numeric keys. Earter "130" using the numeric keys and press the start key. First the start key to execute the maintenance item. The drive stops within approximately 5 minutes. Press the stop/clear key. Cudat paper. Load paper. Load paper in the drawer. Cutput an own-status report (maintenance item U000). Enter "000" using the numeric keys and press the start key. Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance item. Print out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key.	Figure 1-3-10 Connect the power cord. Connect the power cord to the connector on the copier.* *200-240 V specifications only. Insert the power plug into the wall outlet. Carry out initial developer setting (maintenance item U130). Carry out initial developer setting (maintenance item U130). Turn the main switch on and enter the maintenance mode by entering "10871087" using the numeric keys. Earter "130" using the numeric keys and press the start key. First the start key to execute the maintenance item. The drive stops within approximately 5 minutes. Press the stop/clear key. Cudat paper. Load paper. Load paper in the drawer. Cutput an own-status report (maintenance item U000). Enter "000" using the numeric keys and press the start key. Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance item. Print out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key. Fint out the user setting the numeric keys and press the start key.		Toner disposal tank
			Figure 1-3-10
<ul> <li>1. Turn the main switch on and enter the maintenance mode by entering "10871087" using the numeric keys.</li> <li>2. Enter "130" using the numeric keys and press the start key.</li> <li>3. Press the start key to execute the maintenance item. The drive stops within approximately 5 minutes.</li> <li>4. Press the stop/clear key.</li> <li>Load paper.</li> <li>1. Load paper in the drawer.</li> <li>Output an own-status report (maintenance item U000).</li> <li>1. Enter "000" using the numeric keys and press the start key.</li> <li>2. Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance ite</li> <li>3. Press the stop/clear key.</li> <li>Exit maintenance mode.</li> <li>Print out the user setting list.</li> </ul>	<ul> <li>1. Turn the main switch on and enter the maintenance mode by entering "10871087" using the numeric keys.</li> <li>2. Enter "130" using the numeric keys and press the start key.</li> <li>3. Press the start key to execute the maintenance item. The drive stops within approximately 5 minutes.</li> <li>4. Press the stop/clear key.</li> <li>Load paper.</li> <li>1. Load paper in the drawer.</li> <li>Output an own-status report (maintenance item U000).</li> <li>1. Enter "000" using the numeric keys and press the start key.</li> <li>2. Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance ite</li> <li>3. Press the stop/clear key.</li> <li>Exit maintenance mode.</li> <li>Print out the user setting list.</li> </ul>	1. Connect the power cord to the connector on the copier.* *200-240 V specifications only.	
<ul> <li>1. Load paper in the drawer.</li> <li>Output an own-status report (maintenance item U000).</li> <li>1. Enter "000" using the numeric keys and press the start key.</li> <li>2. Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance ite 3. Press the stop/clear key.</li> <li>Exit maintenance mode.</li> <li>1. Enter "001" using the numeric keys and press the start key. The machine exits the maintenance mode.</li> <li>Print out the user setting list.</li> </ul>	<ul> <li>1. Load paper in the drawer.</li> <li>Output an own-status report (maintenance item U000).</li> <li>1. Enter "000" using the numeric keys and press the start key.</li> <li>2. Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance ite 3. Press the stop/clear key.</li> <li>Exit maintenance mode.</li> <li>1. Enter "001" using the numeric keys and press the start key. The machine exits the maintenance mode.</li> <li>Print out the user setting list.</li> </ul>	<ol> <li>Enter "130" using the numeric keys and press the star</li> <li>Press the start key to execute the maintenance item. The drive stops within approximately 5 minutes.</li> </ol>	
<ol> <li>Enter "000" using the numeric keys and press the start key.</li> <li>Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance ite 3. Press the stop/clear key.</li> <li>Exit maintenance mode.</li> <li>Enter "001" using the numeric keys and press the start key. The machine exits the maintenance mode.</li> <li>Print out the user setting list.</li> </ol>	<ol> <li>Enter "000" using the numeric keys and press the start key.</li> <li>Select "MAINTENANCE" and press the start key to output a list of the current settings of the maintenance ite 3. Press the stop/clear key.</li> <li>Exit maintenance mode.</li> <li>Enter "001" using the numeric keys and press the start key. The machine exits the maintenance mode.</li> <li>Print out the user setting list.</li> </ol>		
<ol> <li>Enter "001" using the numeric keys and press the start key. The machine exits the maintenance mode.</li> <li>Print out the user setting list.</li> </ol>	<ol> <li>Enter "001" using the numeric keys and press the start key. The machine exits the maintenance mode.</li> <li>Print out the user setting list.</li> </ol>	1. Enter "000" using the numeric keys and press the star 2. Select "MAINTENANCE" and press the start key to o	
			rt key.

### Make test copies.

1. Place an original and make test copies.

Attach the function seat.

- 1. Remove the PET film from the operation panel.
- Fit the relevant function sheet. If the DF has been installed, select a function sheet among No. 1 to 4 based on installation of the fax board and the printer board. If the DF has not been installed, select a function sheet among No. 5 to 8 based on installation of the fax board and the printer board.
- 3. Refit the PET film to its original position.



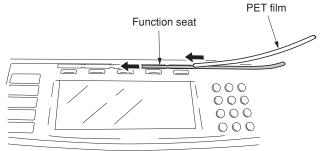


Figure 1-3-11

Completion of the machine installation.

# 1-3-2 Setting initial copy modes

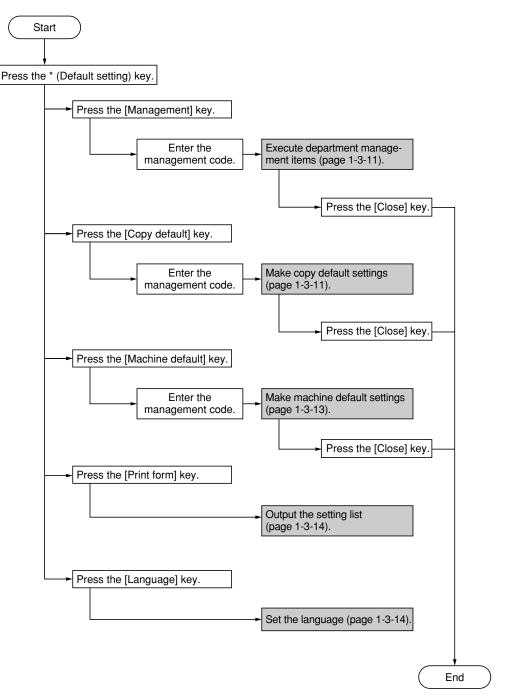
Factory settings are as follows:

Maintenance item No.	Contents	Factory setting
U253	Switching between double and single counts	Double count
U254	Turning auto start function on/off	ON
U255	Setting auto clear time	90s
U256	Turning auto preheat/energy saver function on/off	ON
U258	Switching copy operation at toner empty detection	SINGLE MODE, 70
U260	Changing the copy count timing	After ejection
U342	Setting the ejection restriction	ON
U343	Switching between duplex/simplex copy mode	OFF
U344	Setting preheat/energy saver mode	ENERGY STAR

# 1-3-3 Copier management

In addition to a maintenance function for service, the copier is equipped with a management function which can be operated by users (mainly by the copier administrator). In this copier management mode, settings such as default settings can be changed.

#### (1) Using the copier management mode



#### (2) Setting department management items

#### Registering a new department code

Sets a department code and the limit of the number of copies for that department.

- 1. Press the [ID-code Reg./Del.] key.
- 2. Press the [Register] key and press the [# keys].
- 3. Enter a department code (8-digit) using the numeric keys and press the [# keys].
- 4. Enter the number of copies limit using the numeric keys. Setting range is 1000 pieces of units to 1000-999000 pieces. Entering "0" enables unlimited copying.
- 5. Press the [Close] key.
- 6. Press the [Close] key.
- 7. Press the [On] key.
- 8. Press the [Close] key.

#### Deleting a department code

- 1. Press the [ID-code Reg./Del.] key.
- 2. Select the department code to be deleted and press the [Delete] key.
- 3. Select "Yes" or "No".
- 4. Press the [Close] key.
- 5. Press the [On] key.
- 6. Press the [Close] key.

#### Altering the copy limit

- 1. Press the [# of copy correct] key.
- 2. Select the department code to be altered and press the [Correction] key.
- Enter the number of copies limit using the numeric keys. Setting range is 1000 pieces of units to 1000-999000 pieces. Entering "0" enables unlimited copying.
- 4. Press the [Close] key.
- 5. Press the [Close] key.
- 6. Press the [On] key.
- 7. Press the [Close] key.

#### Clearing copy counts

- 1. Press the [Counter clear] key.
- 2. Select "Yes" or "No".
- 3. Press the [Close] key.

#### Viewing copy counts

- 1. Press the [Counter by ID-code] key.
- 2. View copy counts using the cursor up/down keys.
- 3. Press the [Close] key.
- 4. Press the [Close] key.

#### Print management list

 Press the [Print the list] key. If A4/11" × 81/2" paper is present, the list is automatically printed out. Otherwise, select the paper source and press the start key.

#### (3) Copy default

#### Exposure mode

Selects the exposure mode at power-on.

- 1. Select "Exposure mode" and press the [Change #] key.
- 2. Select "Manual" or "Auto".

#### Exposure steps

Sets the number of exposure steps for the manual exposure mode.

- 1. Select "Exposure steps" and press the [Change #] key.
- 2. Select "1 step" or "0.5 step".

#### Original type

Selects the copy quantity mode at power-on.

- 1. Select "Original type" and press the [Change #] key.
- 2. Select "Text+Photo", "Photo" or "Text".

#### Eco print

Selects the toner economy mode to be automatically on or off at power-on.

- 1. Select "ÉCO print" and press the [Change #] key.
- 2. Select "On" or "Off".

#### Paper selection

Sets whether the same sized paper as the original to be copied is automatically selected.

- 1. Select "Paper selection" and press the [Change #] key.
- 2. Select "APS" or "Default cassette".

#### Default drawer

Sets the drawer to be selected in cases such as after the reset key is pressed.

- 1. Selct "Default cassette" and press the [Change #] key.
- 2. Select priority drawer.

#### Default magnification

Selects whether auto magnification selection or 100% magnification is to be given priority when the sizes of the original and copy paper are different.

- 1. Select "Default magnification" and press the [Change #] key.
- 2. Select "Manual" or "AMS".

#### Auto exposure adjustment

Adjusts the exposure for the auto exposure mode.

- 1. Select "Auto exposure adjustment" and press the [Change #] key.
- Press the [Lighter] or [Darker] key to adjust default setting of copy exposure. Setting range: -3 to +3

#### Manual exposure adjustment (Mixed)

Adjusts the exposure to be used when text and photo original is selected for the image mode.

- 1. Select "Manual exp. adj. (Mixed)" and press the [Change #] key.
- Press the [Lighter] or [Darker] key to adjust default setting of copy exposure. Setting range: -3 to +3

#### Manual exposure adjustment (Text)

Adjusts the exposure to be used when text original is selected for the image mode.

- 1. Select "Manual exp. adj. (Text)" and press the [Change #] key.
- Press the [Lighter] or [Darker] key to adjust default setting of copy exposure. Setting range: -3 to +3

#### Manual exposure adjustment (Photo)

Adjusts the exposure to be used when photo original is selected for the image mode.

- 1. Select "Manual exp. adj. (Photo)" and press the [Change #] key.
- Press the [Lighter] or [Darker] key to adjust default setting of copy exposure. Setting range: -3 to +3

#### Margin width

Sets the default setting of the margin width for the margin copying.

- 1. Select "Default margin width" and press the [Change #] key.
- 2. Press the +/- keys to adjust default margin width.

Setting range: 0 to 3/4" (inch specifications) 0 to 18 mm (metric specifications)

#### Border erase width

Sets the default setting of the border erase width for the border erase mode.

- 1. Select "Default erase width" and press the [Change #] key.
- 2. Press the +/- keys to adjust default erase width.

Setting range: 0 to 3/4" (inch specifications) 0 to 18 mm (metric specifications)

## Copy limit

Sets the number of copies limit for multiple copying.

- 1. Select "Preset limit" and press the [Change #] key.
- Press the +/- keys to set copy preset in one job.

Setting range: 1 to 999 copies

#### Display register key

Sets whether or not to display the Register key in the copy operation screen.

- 1. Select "Display register key" and press the [Change #] key.
- 2. Select "On" or "Off".

Customize the base screen (main function)

Changes the layout of the main functions of the base screen.

- 1. Select "Customize (Main function)" and press the [Change #] key.
- 2. Change the layout to press [Move ahead] or [Move to behind].

Customize the copy operating screen (add function)

Changes the layout of the functions except the main functions of the copy operating screens.

- 1. Select "Customize (Add function)" and press the [Change #] key.
- 2. Change the layout to press [  $\leftarrow$  ].

#### (4) Machine default

#### Auto drawer switching

Sets whether the auto drawer switching function is available.

- 1. Select "Auto cassette switching" and press the [Change #] key.
- 2. Select "On" or "Off".

#### Special paper

Sets the drawer for such special paper as colored paper or recycled paper.

- 1. Select "Special paper" and press the [Change #] key.
- 2. Select "1st paper" or "2nd paper".

#### APS for special paper

Sets whether to use the paper source with the special paper for auto paper selection and auto drawer switching.

- 1. Selct "APS for special paper" and press the [Change #] key.
- 2. Select "On" or "Off".

## Paper size (upper drawer)

Sets the paper size for upper drawer.

- 1. Select "Paper size (1st cassette)" and press the [Change #] key.
- 2. Select the paper size.

#### Paper size (lower drawer)

Sets the paper size for lower drawer.

- 1. Select "Paper size (2nd cassette)" and press the [Change #] key.
- 2. Select the paper size.

#### Paper type (upper drawer)

Sets the paper type (standard or special) for upper drawer.

- 1. Select "Paper type (1st cassette)" and press the [Change #] key.
- 2. Select the paper type.

#### Paper type (lower drawer)

Sets the paper type (standard or special) for lower drawer.

- 1. Select "Paper type (2nd cassette)" and press the [Change #] key.
- 2. Select the paper type.

#### Check bypass sizing

Sets whether or not to display the paper size key of the basic screen when copying with the bypass tray.

- 1.Select "Check bypass express" and press the [Change #] key.
- 2. Selct "On" or "Off".

#### Auto shutoff time

Sets the auto shutoff time.

- 1. Select "Auto shut-off time" and press the [Change #] key.
- Press the +/- keys to set the auto shutoff time.

Setting range: 15 to 240 minutes

#### Auto preheat time

Sets the auto preheat time.

- 1. Select "Auto preheat time" and press the [Change #] key.
- 2. Press the +/- keys to set the auto preheat time.

Setting range: 1 to 45 minutes Note: Set the auto preheat time to be shorter than the auto shutoff time.

#### Copy eject location setting

Selects whether to eject copies to copier, finisher or job separator.

- 1. Select "Select Copy output mode" and press the [Change #] key.
- 2. Select the eject location.

#### Key sound

Sets if a beep sounds when a key on the key press panel is pressed.

- 1. Select "Key sound ON/OFF" and press the [Change #] key.
- 2. Select "On" or "Off".

#### Silent mode

Selects whether or not to enter silent mode after copying.

- 1. Select "Silent Mode" and press the [Change #] key.
- 2. Select "On" or "Off".

#### Management code change

Changes the management code.

- 1. Select "Management code change" and press the [Change #] key.
- 2. Enter the 4-digit management code using the numeric keys and press the enter key.

#### Auto shutoff

Sets whether the auto shutoff function is available.

- 1. Select "Auto shut-off" and press the [Change #] key.
- 2. Select "On" or "Off".

## (5) Report

Outputs the setting reports.

- 1. Press the [Print form] key.
- 2. Select the report. Copy report/Option report/Counter report/ Machine report

## (6) Language

Switches the language to be displayed on the press panel.

- Press the [Language] key.
   Select the display language.

## 1-3-4 Installing the key counter (option)

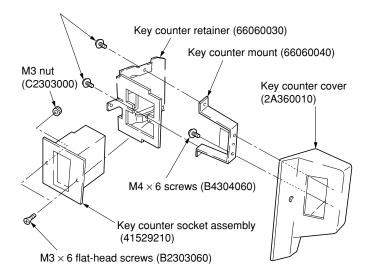
Key counter installation requires the following parts: Key counter set (P/N 2A369703) Contents of the set:

- Key counter cover (P/N 2A360010)
- Key counter retainer (P/N 66060030)
- Key counter cover retainer (P/N 66060022)
- Key counter mount (P/N 66060040)
- Key counter socket assembly (P/N 41529210)
- Four (4) M4 × 6 bronze TP-A screws (P/N B4304060)
- Two (2) M4 × 10 bronze TP-A screws (P/N B4304100)
- One (1) M4 × 20 bronze TP-A screw (P/N B4304200)
- One (1) M4 × 6 chrome TP-A screw (P/N B4104060)
- One (1) M3 × 8 bronze binding screw (P/N B1303080)
- One (1) M4  $\times$  30 bronze binding screw (P/N B1304300)
- Two (2) M3 × 6 bronze flat-head screws (P/N B2303060)
- One (1) M3 bronze nut (P/N C2303000)

#### Procedure

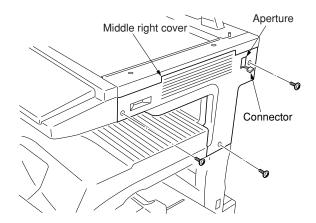
- 1. Fit the key counter socket assembly to the key counter retainer using the two screws and nut.
- 2. Fit the key counter mount to the key counter cover using the two screws, and attach the key counter retainer to the mount using the two screws.

 $M4 \times 6$  screws (B4304060)

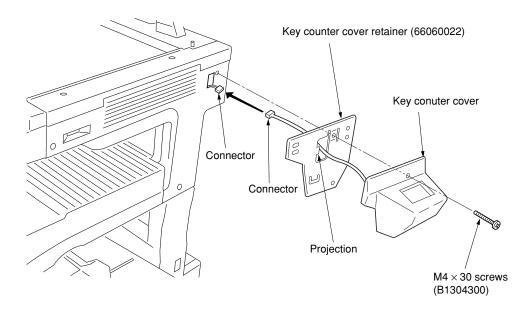




- 3. Remove the three screws holding the middle right cover and then the cover.
- 4. Cut out the aperture plate on the middle right cover using nippers.
- 5. Pass the connect inside the copier through the aperture and refit the middle right cover.



- 6. Pass the connector of the key counter through the aperture in the key counter retainer, and insert into the connector of the copier.
- 7. Seat the projection of the key counter cover retainer in the aperture in the middle right cover.
- Fit the key counter cover with the key counter socket assembly inserted to the key counter cover retainer on the copier using the screw.
- 9. Insert the key counter into the key counter socket assembly.





- 10. Turn the main switch on and enter the maintenance mode.
- 11. Run maintenance item U204 and select "KEY-COUNTER."
- 12. Exit the maintenance mode.
- 13. Check that the message requesting the key counter to be inserted is displayed on the touch panel when the key counter is pulled out.
- 14. Check that the counter counts up as copies are made.

## 2DF

# 1-3-5 Installing the drawer heater (option)

Drawer heater installation requires the following parts:

- Drawer heater (P/N 34860030): for 120 V specifications
- Drawer heater (P/N 33960020): for 220 240 V specifications
- Band (P/N M2107120)

#### Procedure

- 1. Pull the upper and lower drawers out.
- 2. Fit the drawer heater to the bottom of the machine and bind the wire of the drawer heater with the band.
- 3. Put the wire of the drawer heater out of the machine through the aperture of the rear frame.

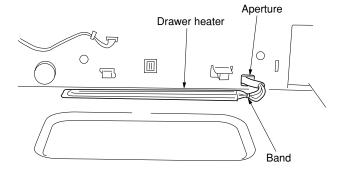


Figure 1-3-15

4. Remove the four screws and the two connectors and then remove the power source unit from the rear side of the machine.

5. Remove the two screws and pull out the wire of the drawer heater that has been put out of the rear frame while raising the power source

6. Insert the connector of the drawer heater into

the connector of the machine. 7. Refit all the removed parts.

PCB unit.

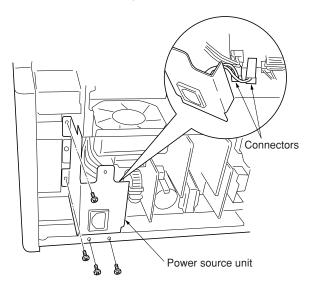
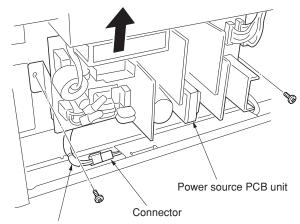


Figure 1-3-16



Wire of the drawer heater

2DF

## Preparation

1. Remove the lower drawer from the copier.

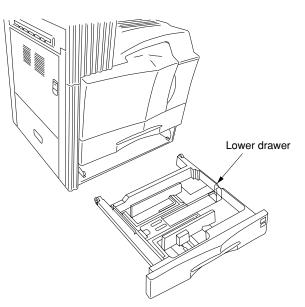
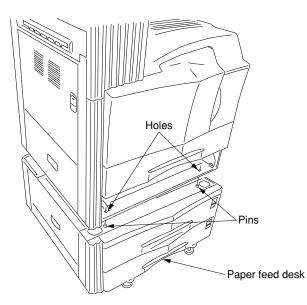


Figure 1-3-18





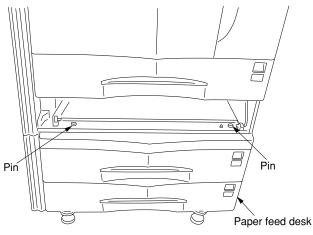


Figure 1-3-20

2. Place the copier on top of the paper feed desk with the positioning pins at the front left and right of the paper feed desk aligned with the holes in the base of the copier.

- 3. Secure the copier to the paper feed desk using the two pins.
- 4. Refit the lower drawer to the copier.

2DF

- 5. Remove the screw and then the cover from the rear of the paper feed desk.
- 6. Remove the screw from the copier.

7. Insert the 12-P connector of the paper feed desk into the connector on the copier.

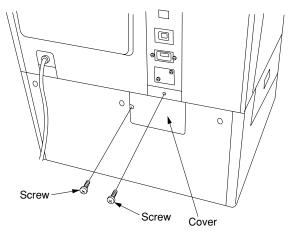


Figure 1-3-21

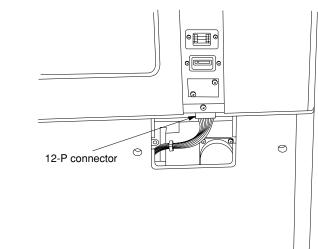


Figure 1-3-22

- 8. Route the harness through the clamp on the retainer.
- 9. Fit the retainer using the screw removed in step 6 and the two CVM4  $\times$  06 cross-head chromate binding screws.
- 10. Refit the cover.

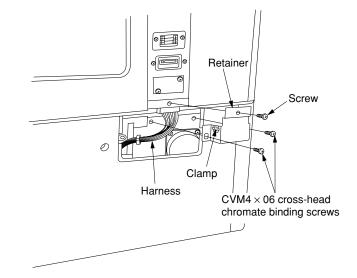


Figure 1-3-23

- 2DF
- 11. Turn the four leveling bolts until they reach the floor and adjust them to level the machine.

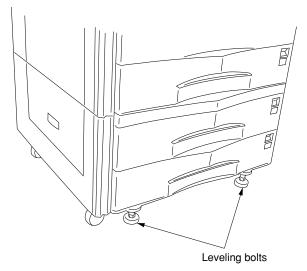


Figure 1-3-24

12. Fit the two stays to the left of the paper feed desk (one toward the front and the other the rear) using the two M4  $\times$  10 chrome TP screws such that they make contact with the floor.

**Note:** Do not fit the stays if the finisher is to be installed.

- 13. Connect the copier power plug to the wall outlet and turn the copier main switch on.
- 14. Load paper into the drawer and make a test copy to check the operation.

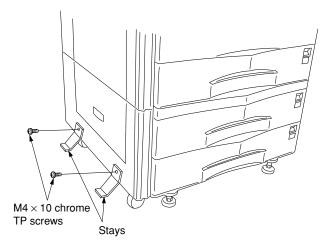
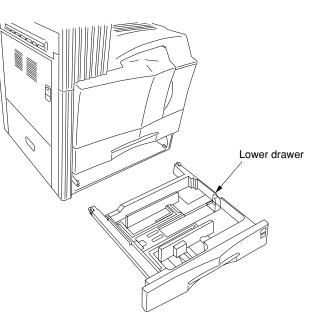


Figure 1-3-25

# 1-3-7 Installing the large paper deck (option)

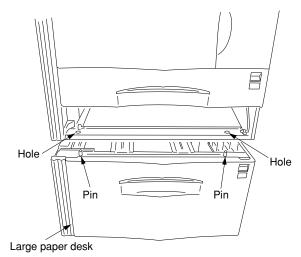
#### Preparation

1. Remove the lower drawer from the copier.



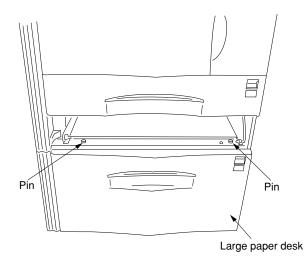


2. Place the copier on top of the large paper deck with the positioning pins at the front left and right of the large paper deck aligned with the holes in the base of the copier.





- 3. Secure the copier to the large paper deck using the two pins.
- 4. Refit the lower drawer to the copier.



- 2DF
- 5. Remove the screw and then the cover from the rear of the large paper deck.
- 6. Remove the screw from the rear of the copier.

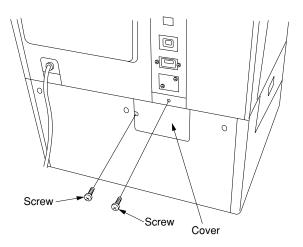
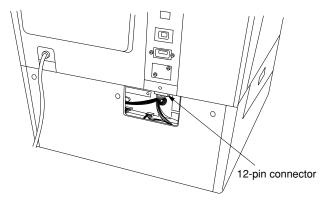


Figure 1-3-29

7. Insert the 12-pin connector of the large paper deck into the connector on the copier.





- 8. Fit the retainer using the screw removed in step 6 and the two  $CVM4 \times 06$  cross-head chromate binding screws.
- 9. Refit the cover using the screw (see step 5).

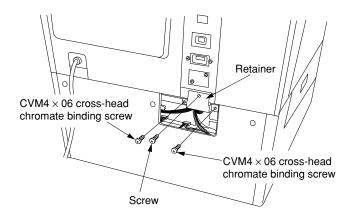


Figure 1-3-31

10. Turn the four leveling bolts until they reach the floor and adjust them to level the machine.

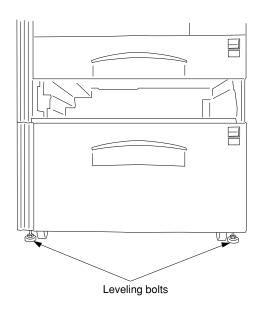


Figure 1-3-32

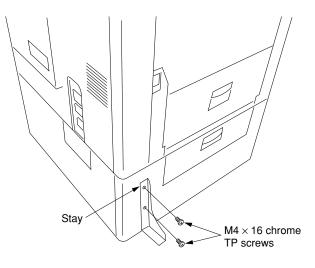
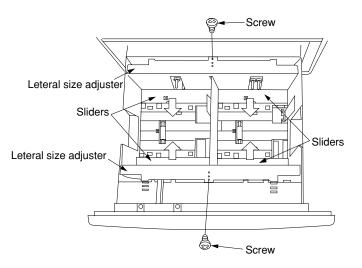


Figure 1-3-33



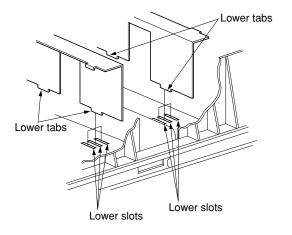
2DF

11. Fit the stay to the lower left of the large paper deck toward the rear using the two  $M4 \times 16$  chrome TP screws such that it makes contact with the floor. **Note:** Do not fit the stay if the finisher is to be installed.

#### Setting the paper size

- 1. Open the large paper deck.
- 2. Move the sliders at the machine front and rear inward (two at each point).
- 3. Remove the screw from each of the front and rear lateral size adjusters.

- 4. Insert the upper tabs and lower tabs of the front and rear lateral size adjusters into the upper slots and lower slots respectively such that the size indicators point to the size of paper to be used. Secure the lateral size adjusters using the screw for each.
- 5. Move the front and rear sliders (two at each point) outward until they make contact with the lateral size adjusters.



#### Steps 6 to 9 are for metric specifications only.

- 6. Remove the screw from each of the left and right longitudinal size adjusters.
- Align the pin holes in the left and right longitudinal size adjusters with the A4 pins or B5 pins according to the size of paper to be used. Secure the adjusters using the screw for each.
- 8. Connect the copier power plug to the wall outlet and turn the copier main switch on.
- 9. Run maintenance item 208 and set the paper size for the large paper deck (B5/A4).
- 10. Load paper into the drawer and make a test copy to check the operation.

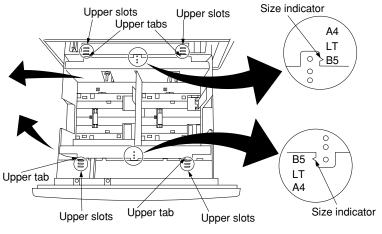
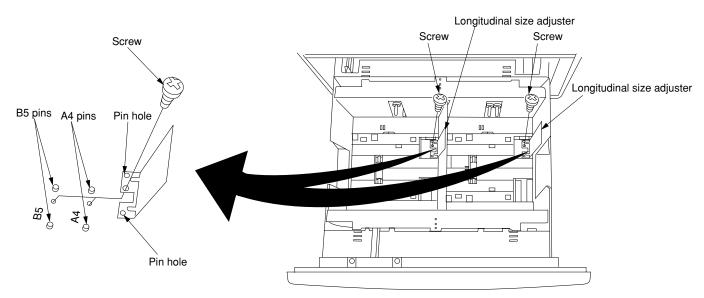


Figure 1-3-35



# 1-3-8 Installing the saddle finisher/switchback unit (option)

#### Preparation

- 1. Open the conveying cover of the copier.
- 2. Remove the two screws securing the feedshift guide assembly and then the assembly.

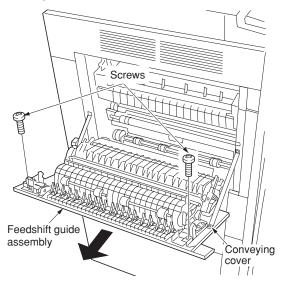


Figure 1-3-37

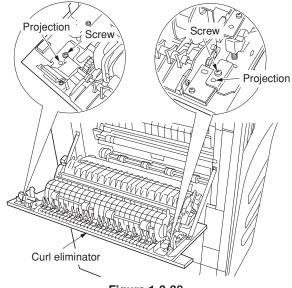


Figure 1-3-38

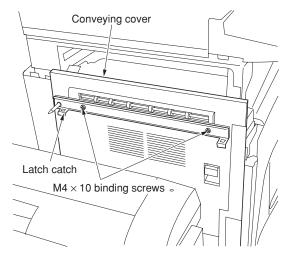


Figure 1-3-39

- 3. Fit the curl eliminator to the conveying cover such that the projections on the cover fit into the two ends of the curl eliminator.
- 4. Secure the curl eliminator using the two screws removed in step 2.

5. Close the conveying cover.

6. Fit the latch catch to the conveying cover using two M4  $\times$  10 binding screws.

- 2DF
- 7. Remove the two screws securing the shield cover and then the cover.

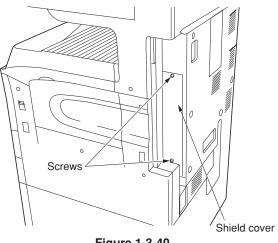
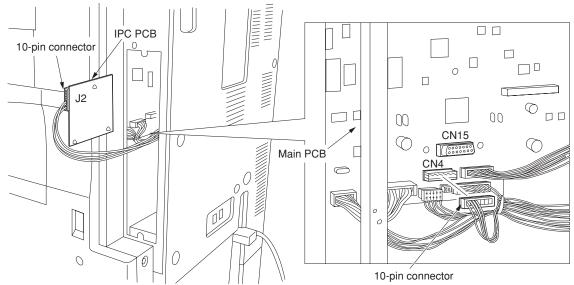


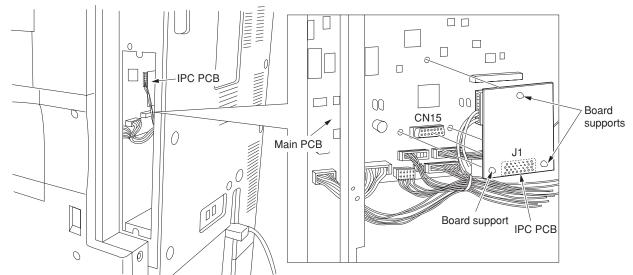


Figure 1-3-41

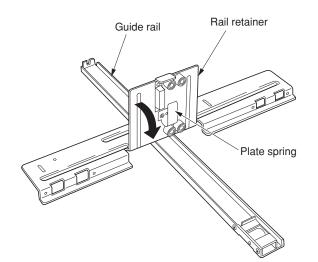
8. Detach the 10-pin connector (four wires) from CN4 on the main PCB and connect it to J2 on the IPC PCB.



- 9. Connect J1 on the IPC PCB to CN15 on the main PCB.
- 10. Insert the three board supports of the IPC PCB into the main PCB to secure them.
- 11. Refit the shield cover.



12. Align the rail retainer with the groove of the guide rail and attach the rail retainer to the guide rail. Make sure that the plate spring of the rail retainer fits into the groove and the edge of the guide rail fits between the pulleys on the reverse side of the rail retainer.

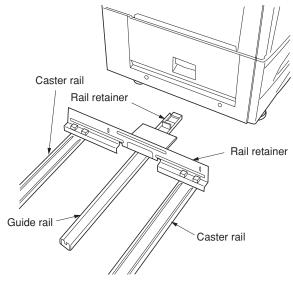


#### When the switchback unit is not to be installed

 Orient the guide rail such that its pulley is positioned toward the copier, and then fit a caster rail to each side of the rail retainer.

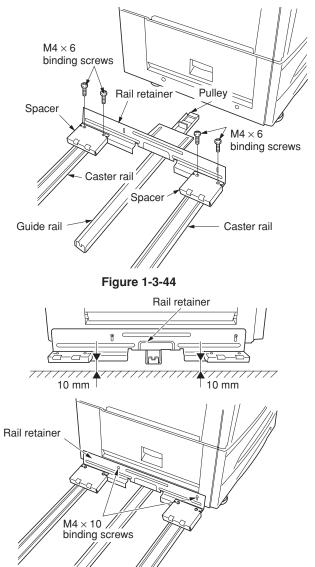
## When the switchback unit is to be installed

- 14. Attach a spacer to each end of the rail retainer using two M4  $\times$  6 binding screws for each.
- 15. Orient the guide rail such that its pulley is positioned toward the copier, and then fit the caster rails to the spacer.



16. Secure the rail retainer to the copier using two  $M4 \times 10$  binding screws such that the front and rear gaps between the floor and rail retainer are approximately 10 mm.

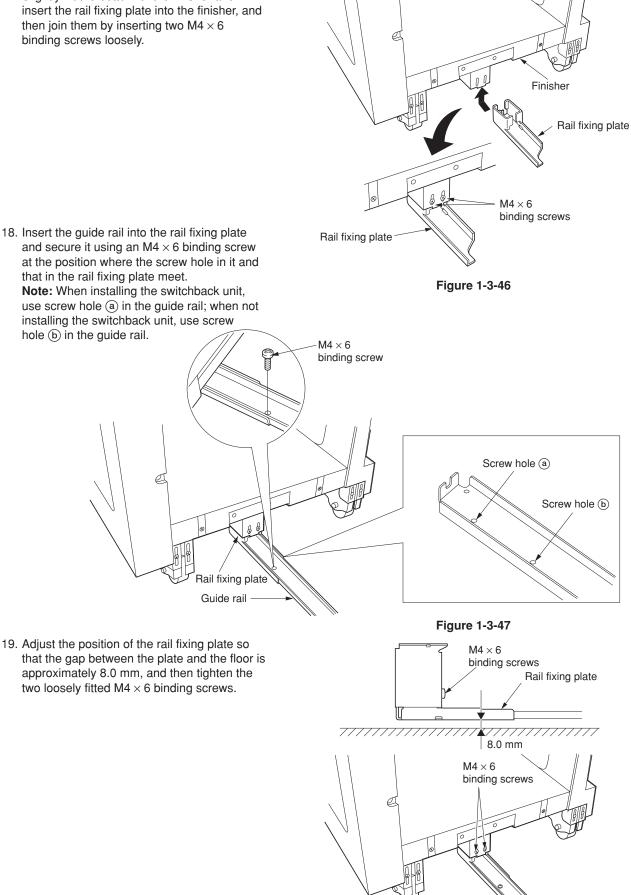




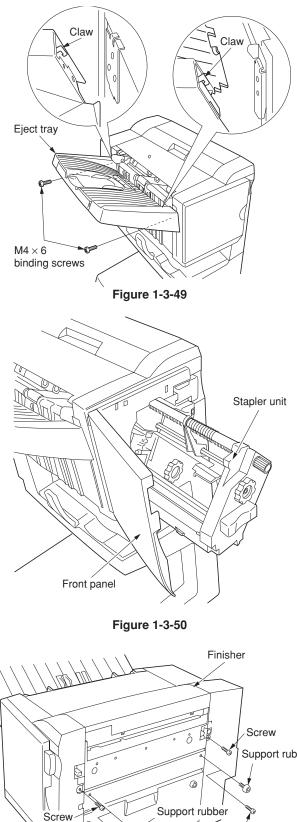
2DF

#### 2DF

17. Slightly lift the bottom of the finisher and then join them by inserting two  $M4 \times 6$ binding screws loosely.



20. Fit the eject tray to the finisher by hooking the two claws and secure it using two  $M4 \times 6$ binding screws.



- 21. Open the front panel and insert the stapler unit into the finisher.
- 22. Close the front panel.



- 1. Remove the two support rubbers on the right of the finisher and loosely fit the two  $M3 \times 8$ binding screws in their places.
- 2. Remove the two screws.

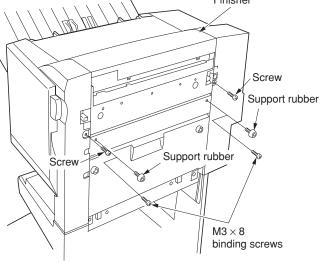


Figure 1-3-51

- 2DF
- 3. Release the hook of the switchback unit by lifting the release lever.

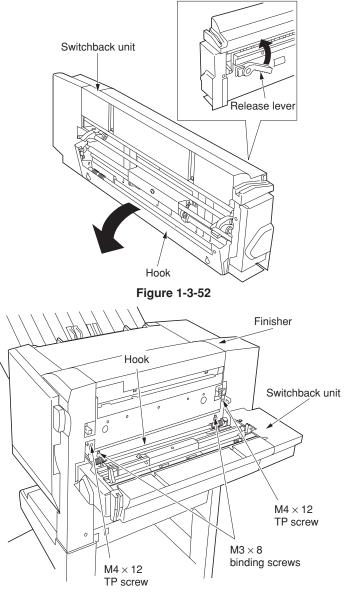


Figure 1-3-53

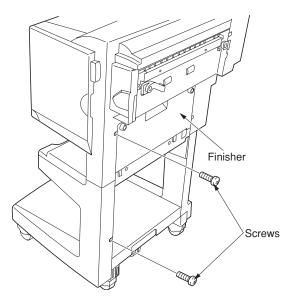
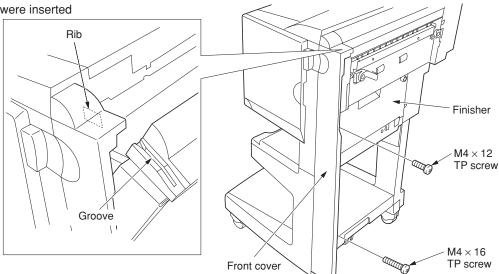


Figure 1-3-54

- 4. Fit the switchback unit to the finisher by hanging the hook of the switchback unit on the loosely fitted M3  $\times$  8 binding screws. 5. Tighten the loosely fitted M3  $\times$  8 binding
- screws.
- 6. Secure the switchback unit using two  $M4\times12$ TP screws.
- 7. Close the switchback unit.

8. Remove the two screws from the cover of the finisher.

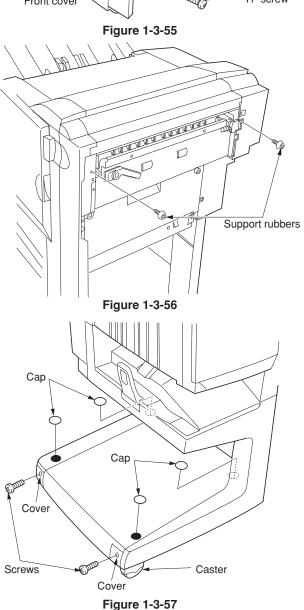
- Insert the rib of the front cover into the groove in the top cover of the switchback unit, and then fit the front cover to the finisher.
- 10. Secure the front cover by fitting an  $M4 \times 12$ TP screw and  $M4 \times 16$  TP screw into the holes where screws were inserted (see step 8).



- 11. Fit the two support rubbers removed in step 1 to the switchback unit.
- 12. If the finisher and the copier do not engage securely, perform the following finisher height adjustment.

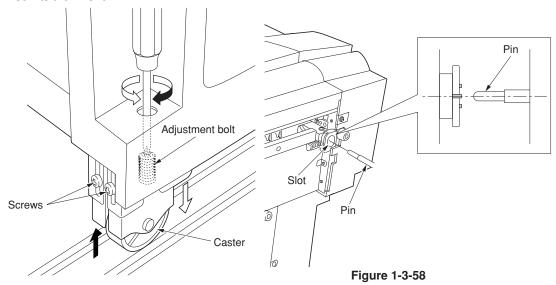
## Adjusting the height of the finisher

- 1. Remove the two covers from the lower left part of the finisher by removing one screw each.
- 2. Remove the four caps from above the four casters of the finisher.

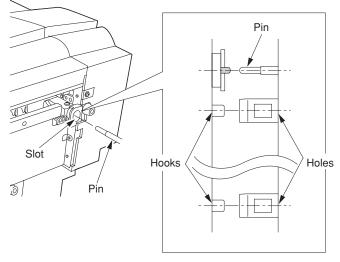


- 3. Loosen the two screws on each of the four casters.
- 4. Adjust the height of the rear right caster by turning its adjustment bolt using a crossheaded screwdriver so that the axis of the pin of the latch catch is aligned with the middle of the three markings on the right of the slot of the finisher or switchback unit when the finisher is joined to the copier (viewed from the machine front).

**Note:** Turning the adjustment bolts clockwise lowers the finisher, while turning them counterclockwise lifts the finisher.



5. Adjust the height of the front right caster in the same manner as in step 4 so that the axis of the pin of the latch catch is aligned with the marking above the slot and the center of the two hooks on the finisher align with the center of the holes on the latch catch when the finisher is joined to the copier (viewed from above).



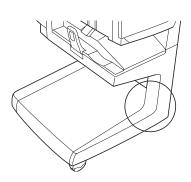


Figure 1-3-59

#### 2DF

- 6. Adjust the height of the left two casters in the same manner as in step 4 so that the top and bottom gaps (A) between the finisher and the copier are the same when the finisher is detached from the copier.
- 7. Retighten the two screws on each of the four casters.
- 8. Refit the two covers and four caps.

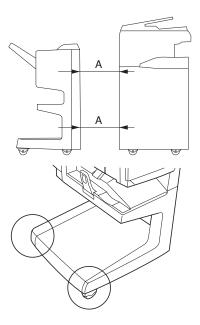


Figure 1-3-60

#### Connecting the signal cable

- 1. Connect the signal cable of the finisher to the copier. If the switchback unit has been installed, connect the signal cable of the switchback unit, as well.
- 2. Insert the copier power plug to the wall outlet and turn the main switch on.
- 3. Make test copeies and check that the finisher and the switchback unit operate correctly.

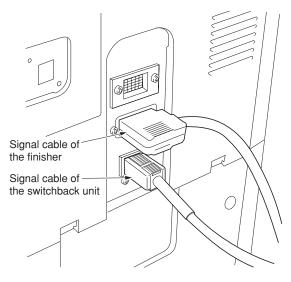


Figure 1-3-61

# 1-3-9 Installing the sheet-through document holder (option)

#### Preparation

copier.

1. Insert the DF into the copier.

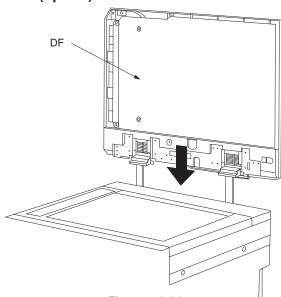


Figure 1-3-62



2. Connect the connector of the DF to the

and turn the main switch on.

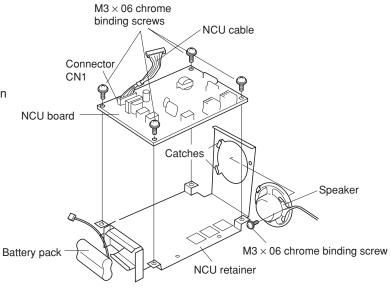
3. Insert the copier power plug to the wall outlet

- 4. Run maintenance item U211 to set "SADF" (25 cpm copier only).
- 5. Place the original on the DF and make a test copy. Check the operation and the copy image.
- 6. If the copy image is different from the original, run the following adjustment.
  - Maintenance item U70 (sub-scan line adjustment)(see page 1-4-15)
  - Maintenance item U71 (leading edge timing adjustment)(see page 1-4-16)
  - Maintenance item U72 (center line adjustment)(see page 1-4-17)

# 1-3-10 Installing the Facsimile System (option)

#### Procedure

- 1. Fit the battery pack into the NCU retainer as shown in the illustration.
- 2. Fit the speaker onto the two catches on the NCU retainer, and fasten it into place with one  $M3 \times 06$  chrome binding screw.
- 3. Fasten the NCU board to the NCU retainer with four M3  $\times$  06 chrome binding screws.
- 4. Connect the NCU cable to connector CN1 on the NCU board.

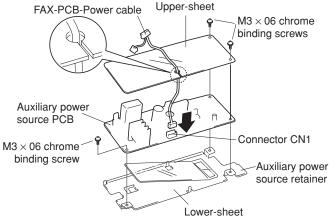




- 5. Adhere the lower-sheet to the auxiliary power source retainer.
- 6. Fasten the auxiliary power source PCB, together with the upper-sheet, to the auxiliary power source retainer, using three  $M3 \times 06$ chrome binding screws.
- 7. Pass the FAX-PCB-Power cable through the cutout in the upper-sheet, and connect it to connector CN1 on the auxiliary power source PCB.

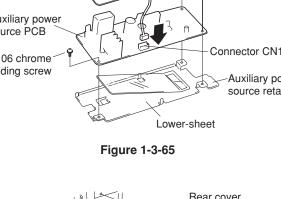
8. Remove 13 screws and take off the rear

cover.



Rear cover Screws

**Figure 1-3-66** 



- 2DF
  - If the printing system is installed
- 9. Remove the 2 screws holding the printer system in place, and pull the printing system out of the shield cover.

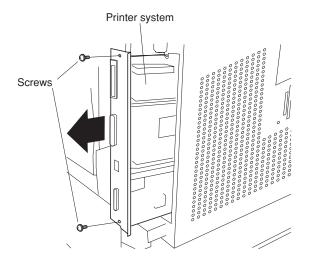


Figure 1-3-67

Shield cover



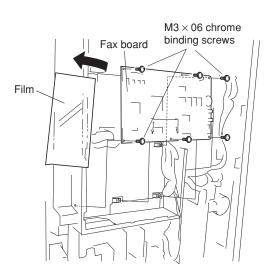


Figure 1-3-69

10. Remove 13 screws and take off the shield cover.

11. Move the film out of the way to the left, and fasten the fax board into place using six M3  $\times$  06 chrome binding screws.

- 12. Fasten the NCU unit into place from the bottom with two  $M3 \times 06$  chrome binding screws.
- 13. Connect the three connectors from the NCU board to the corresponding connectors on the fax board, as follows:
  - Speaker 2-pin connector  $\rightarrow \text{CN7}$
  - NCU board connector  $\rightarrow$  CN3
  - Battery connector  $\rightarrow \text{CN6}$

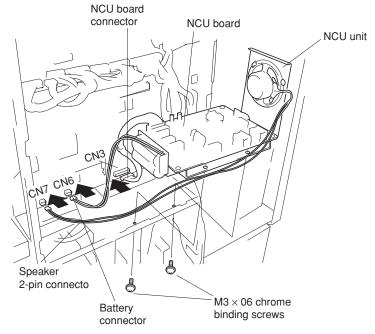


Figure 1-3-70

 Remove the film that fixes the three positive connectors of the power source PCB from the optional interface mounting plate.
 Important: Dispose of the film that has been removed.

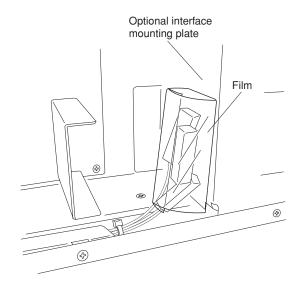
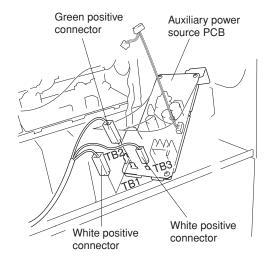


Figure 1-3-70-1

- 15. Connect the three positive connectors on the power board to the corresponding connectors on the auxiliary power source PCB, as follows.
  - White positive connector  $\rightarrow$  TB1 (white)
  - Green positive connector  $\rightarrow$  TB2 (green)
  - White positive connector  $\rightarrow$  TB3





16. Fit the catch on the auxiliary power unit into the mount hole in the copier, and fasten the auxiliary power unit into place with one M3  $\times$  06 chrome binding screw.

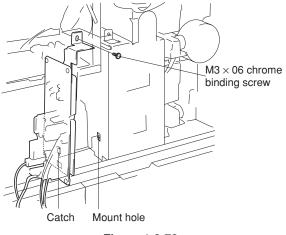
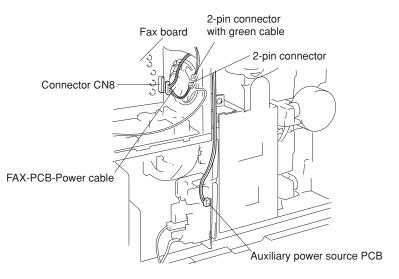


Figure 1-3-72

This page is intentionally left blank.

- 2DF
- 17. Through the opening of controller-box above the speaker, connect the FAX-PCB-Power cable on the auxiliary power source PCB to connector CN8 on the fax board.
- 18. Connect the 2-pin connector to the 2-pin connector with green cable.





- 19. Unlock CN1 on the fax board by pulling its connector housing.
- 20. Hold the fax cable with its conductive side facing up, insert it into connector CN1, then push the housing back in to lock the connector.
- 21. Hold the other end of the fax cable with its conductive side facing down, and connect it to connector CN44 on the main PCB. (Pull the CN44 housing out to release the connector lock, then insert the cable, and then push the housing back in.) Important: Be sure to push the fax cable all the way in, and be sure that the connection is straight. A poor connection may result in a variety of problems.

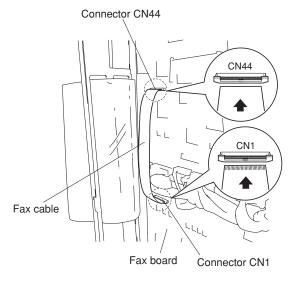
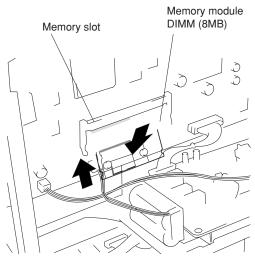


Figure 1-3-74

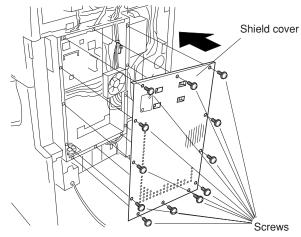




Important: The Memory module DIMM (8MB) must be installed onto the fax board. Please be sure that you do not install it onto the main PCB.22. Insert the Memory module DIMM (8MB) at an angle into the memory slot on the fax board.

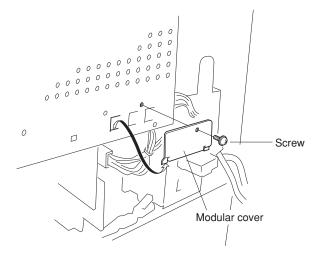
23. Push the free end of the module down toward the board.

24. Fasten the shield cover into place with 13 screws.





25. Remove 1 screw and take off the modular cover.





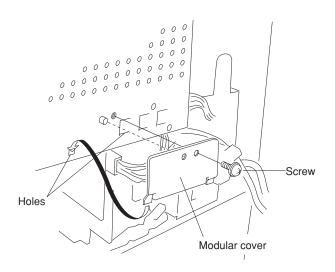


Figure 1-3-78

26. Hang the modular cover onto the holes on the shield cover, and fasten it into place with 1 screw.

- If the printing system was installed
- 27. Reinstall the printing system into the shield cover, fastening it into place with 2 screws.

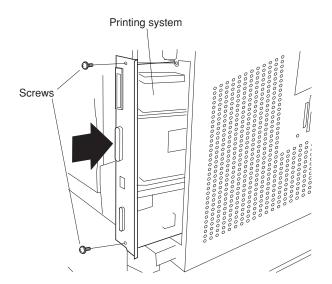
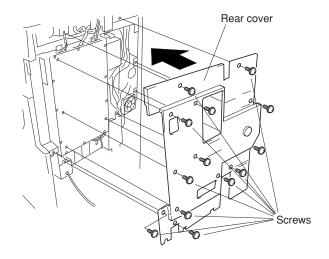
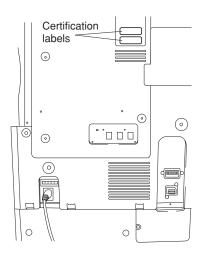


Figure 1-3-79







29. Adhere the certification labels to the rear cover at the locations indicated in the illustration (only 120 V Spac.).



28. Reattach the rear cover with 13 screws.

30. Take the power label from the fax-kit label sheet, and adhere it to the copier directly under the main switch.

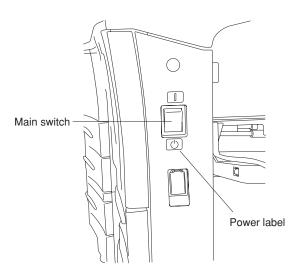
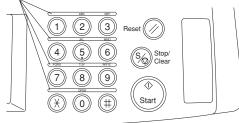


Figure 1-3-82

- 31. Take the alphabet labels from the fax-kit label sheet, and adhere them above the corresponding numeric keys on the operation panel.
  - In Asia, use the "PQRS TUV WXYZ" label, and do not use the "PRS TUV WXZ" and "OPER" labels.

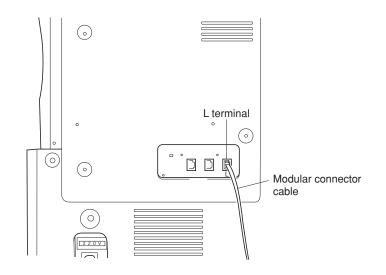






32. Connect the L terminal to the phone circuit using a modular connector cable.
 Important: On 120 V systems, use the included modular connector cable to make the connection.





#### Initialization procedure after installation of facsimile system

- 1. Insert the copier power plug to the wall outlet
- and turn the main switch on.
- 2. Run maintenance item U601.
- 3. Enter a destination code using the numeric keys (refer to the destination code list) and then press the start key.
- \* Enter a destination code with three digits.

Code	Destination	Code	Destination	Code	Destination
000	Japan	159	South Africa	253	Sweden
009	Australia	169	Thailand		France
080	Hong Kong	181	U.S.A.		Austria
084	Indonesia	242	South America		Switzerland
088	Israel	243	Saudi Arabia		Belgium
108	Malaysia	253	CTR21 (European nations)		Denmark
126	New Zealand		Italy		Finland
136	Peru		Germany		Portugal
137	Philippines		Spain		Ireland
152	Middle East		U.K.		Norway
156	Singapore		Netherlands	254	Taiwan

- 4. Enter the OEM code (000) and then press the start key.
- 5. Confirm that the display is changed as shown in the illustration.
- \* At the position of @, the version number of the software is displayed.

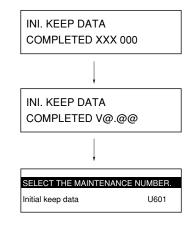


Figure 1-3-85

- 6. Press the cursor key to change the display to maintenance item U602.
- 7. Press the start key and confirm that the display is changed as shown in the illustration.
- \* At the position of @, the version number of the software is displayed.
- 8. After completing the installation, run a communications test to confirm that the fax system is working correctly.

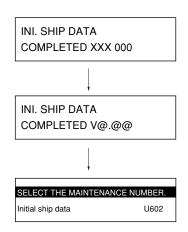


Figure 1-3-86

# 1-3-11 Installing the Printing System (option)

#### Procedure

1. Remove 2 screws and take off the cover.

2. Push the printing system all the way in along the rails, and fasten it with 2 screws.

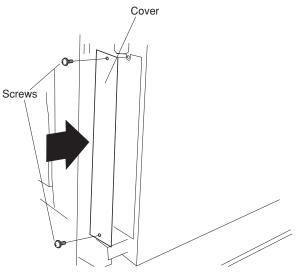


Figure 1-3-87

Screws

Figure 1-3-88

#### Install the (optional) network printer board.

- 3. Remove 2 screws and take off the cover.
- 4. Push the network printer board all the way in along the rails, and fasten it with 2 screws.

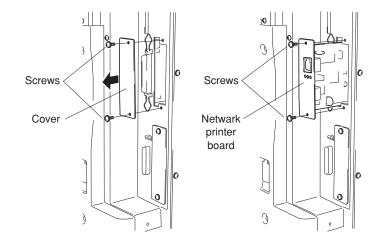
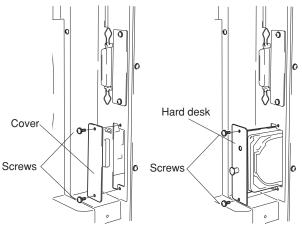


Figure 1-3-89

## 2DF

## Install the (optional) hard disk.

- 5. Remove 2 screws and take off the cover.
- 6. Push the hard disk all the way in along the rails, and fasten it with 2 screws.





## Installing the Optional Bar-Code Reader

- 7. Fasten the serial connector in place with 2 screws.
- 8. Tie the excess cord with the two bands, so that the free cord length comes to about 1 meter.
- 9. Peel off the backing from one of the clamps, adhere the clamp to the copier at the position shown in the illustration, and pass the wire though the clamp.
- If a wing tray is installed, attach the other clamp to the wing tray and pass the wire through both clamps.

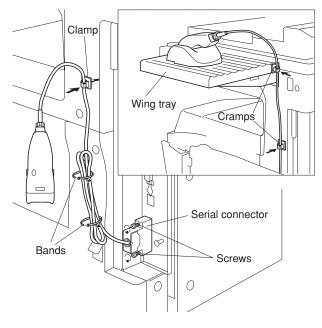


Figure 1-3-91

# Option mermory DIMM Hooks Hooks Memory Slots

#### Figure 1-3-92

### Installing the Optional Memory DIMM

- 10. Remove the printing system, and insert the optional memory DIMM firmly into either of the memory slots. Push the DIMM firmly into the slot so that the two hooks (one hook at each end of the slot) snap closed.
  - The board provides two DIMM slots, and can accept up to two optional DIMMs. If installing a single DIMM, you can use either slot.

# 1-3-12 Installing the Scanning System (option)

#### Procedure

1. Remove 13 screws and take off the rear cover.

If the printing system is installedRemove the 2 screws holding the printer system in place, and pull the printing system

out of the shield cover.

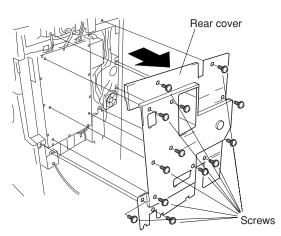


Figure 1-3-93

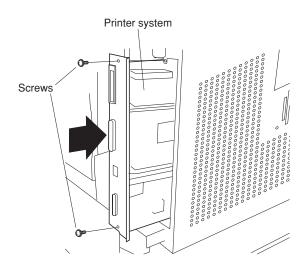


Figure 1-3-94

3. Remove 13 screws and take off the shield cover.

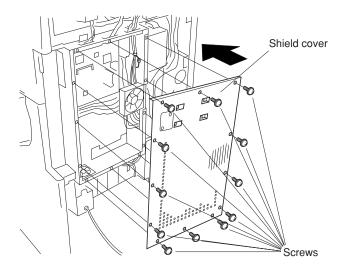


Figure 1-3-95

2DF

1-3-45

#### 2DF

- 4. Insert the RTC board at an angle into the RTC board slot on the main PCB.
- 5. Push the free end of the RTC board down toward the fax board.

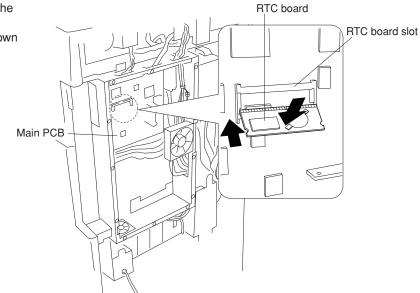


Figure 1-3-96

6. Remove 2 screws, and take off the cover.

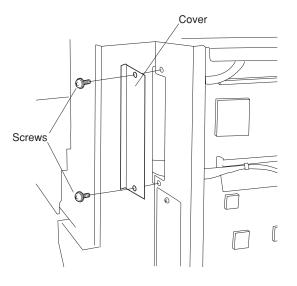


Figure 1-3-97

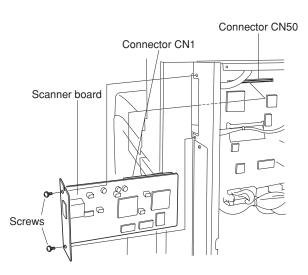


Figure 1-3-98

- 7. Firmly push connector CN1 on the scanner board all the way into connector CN50 on the main PCB.
- 8. Fasten the scanner board with 2 screws.

9. Fasten the shield cover into place with 13 screws.

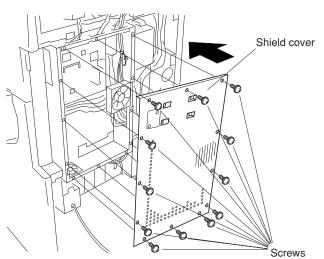


Figure 1-3-99

Printing system Screws 

Figure 1-3-100

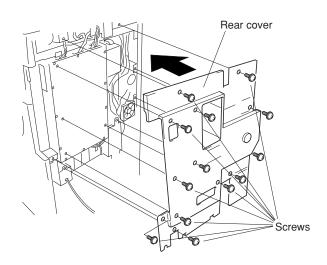


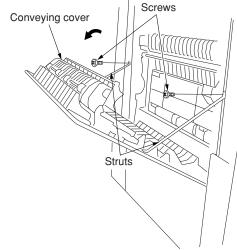
Figure 1-3-101

- If the printing system was installed
  10. Reinstall the printing system into the shield cover, fastening it into place with 2 screws.

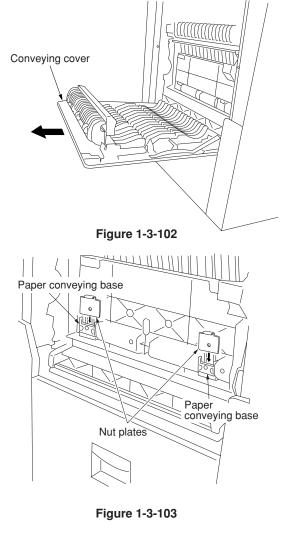
11. Reattach the rear cover with 13 screws.

# Preparation

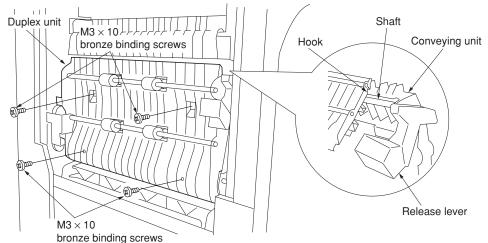
- 1. Open the conveying cover.
- 2. Remove the screw from the front and rear struts respectively to remove the struts and remove the conveying cover in the horizontal direction.



3. Insert the nut plates into the paper conveying bases.



- Raise the release lever of the conveying unit, open the conveying unit a little, and hang the hook sections in the front and rear of the duplex unit on the shaft of the conveying unit.
- 5. Secure the duplex unit using the four  $M3 \times 10$  bronze binding screws.



- 6. Insert the 8-pin connector of the duplex unit into the groove of the housing and pull out the harness.
- 7. Connect the 8-pin connector of the duplex unit to the connector of the copier and arrange wiring so that the harness is placed down.

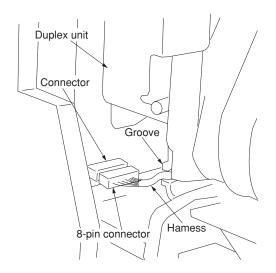
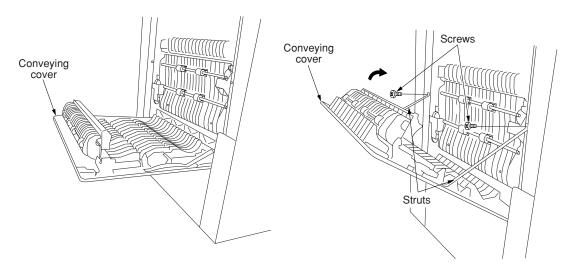


Figure 1-3-105

- 8. Insert the removed conveying cover in the horizontal direction and reattach the front and rear struts using the screw respectively.
- 9. Close the conveying cover.



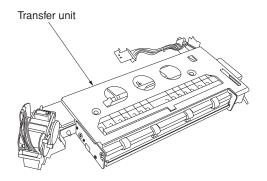


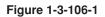
- 10. Connect the copier power plug to the wall outlet and turn the copier main switch on.
- Run maintenance item U034 to adjust the center line for duplex copying (see page 1-6-12).

## Preparation

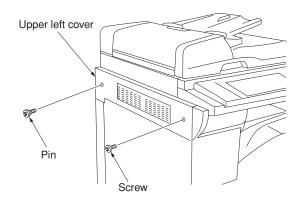
2DF

Note: When placing the transfer unit on the floor or the like, be sure to place it upside down. If not, the stapler mounting plate may be deformed, resulting in a malfunction.





1. Remove the screw and the pin to remove the upper left cover.





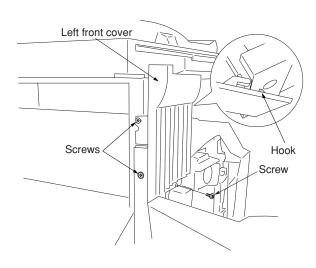


Figure 1-3-108

- 2. Open the conveying cover and the front cover.
- Loosen the two screws on the left side and the screw on the front side, open the hook on the right side, and remove the left front cover.

- 4. Close the conveying cover and the front cover.
- 5. Remove the two screws and then remove the ejection cover with the mounting plate.

6. Remove the two screws and then remove the

inner ejection cover.

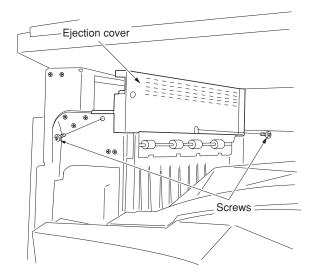


Figure 1-3-109

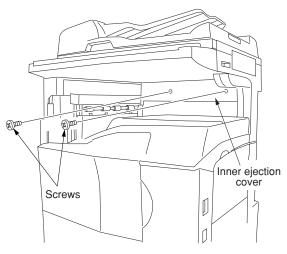
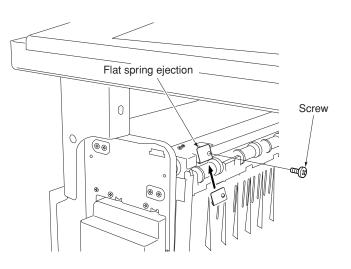
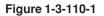


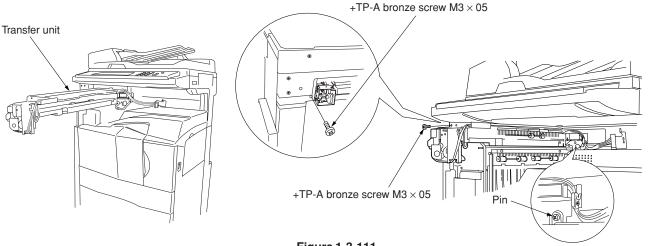
Figure 1-3-110





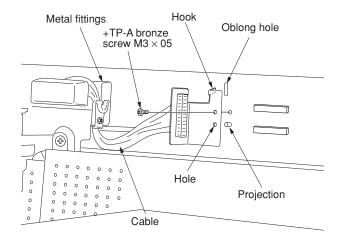
7. Remove the screw located at the front of the static charge eliminator of the copier, fit the flat spring ejection from the lower side, and secure it with the removed screw.

- 8. Remove the blue screw from the transfer unit and then remove the mounting plate.
  9. Remove the securing tape from the 13-pin connector, pass the wire under the stapler motor, and connect the wire with the 13-pin connector.
  Blue screw Securing tape from the transfer unit for the stapler motor, and connect the wire with the 13-pin connector.
  Blue screw Securing tape from the transfer unit for the stapler motor, and connect the wire under the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the transfer unit for the stapler motor.
  Blue screw Securing tape from the stapler motor.
- 10. Insert the transfer unit into the copier from the front side and slide it to the left. Secure the unit using two +TP-A bronze screws  $M3 \times 05$  and the pin that has been fitted to the transfer unit.





- 11. Insert the metal hook of the transfer unit into the oblong hole of the frame of the copier and secure it using a +TP-A bronze screw M3  $\times$  05.
  - \* Insert the projection of the frame into the hole of the metal hook to position the hook.
  - \* Arrange the cable to position it under the metal fittings.



12. Remove a screw, turn the metal fittings upward, and fit the screw again to the lower hole.

 Insert the intermediate tray and connect the connector (white) of the intermediate tray to the transfer unit. Connect the connectors

(gray) to the connectors of the copier as

Connect the gray connector with more pins to the upper connector and the gray connector with less pins to the lower connector.

shown in the illustration.

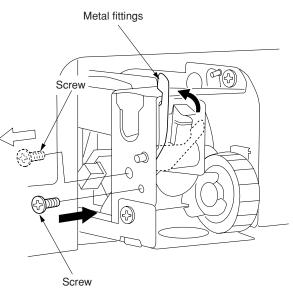


Figure 1-3-113

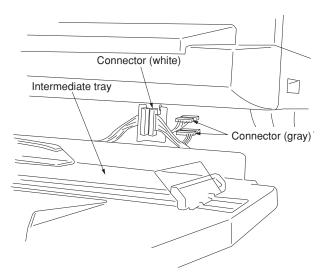




Figure 1-3-115

15. Attach the large ejection cover using the two screws that have secured the upper left cover.

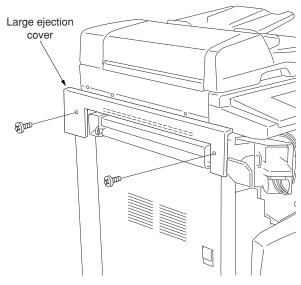


Figure 1-3-116

- 16. Open the front cover and the conveying cover.
- 17. Attach the staple cover.
  - \* Tighten the two screws on the left side to secure the cover with the copier, secure the front side using the screw that has been removed in step 3, and secure the right side using a +TP-A chrome screw  $M3 \times 05$ .

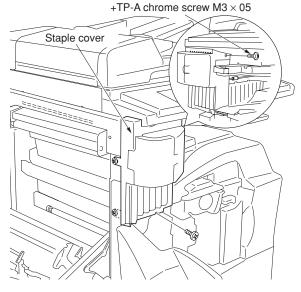
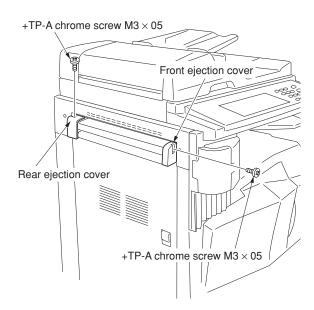


Figure 1-3-117



18. Close the conveying cover and the front cover. Attach the front ejection cover and the rear ejection cover using a +TP-A chrome screw  $M3 \times 05$  each.



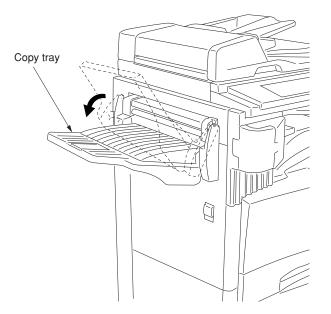


Figure 1-3-119

- 20. Open the staple cover and insert the staple cartridge into the stapler.
- 21. Close the staple cover.
- 22. Insert the power plug of the copier into an outlet and turn the main switch on.
- 23. Select the staple mode and make a stapled copy to check that stapling is performed properly.

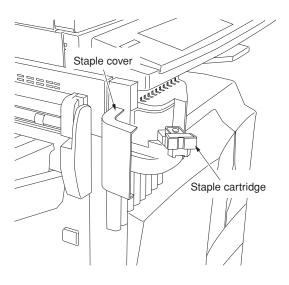
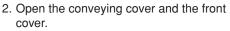


Figure 1-3-120

# 1-3-15 Installing the job separator (option)

### Preparation

- Insert the LED PCB into the job separator and connect the 2-pin connector of the LED PCB into the 2-pin connector of the job separator.
- \* Arrange the wire into the two grooves of the job separator.



- 3. Loosen the two left screws on the left side, remove the screw on the front side, open the hook on the right side, and remove the left front cover.
- 4. Close the conveying cover and the front cover.

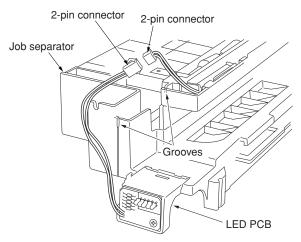
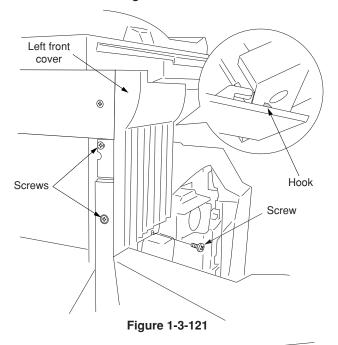
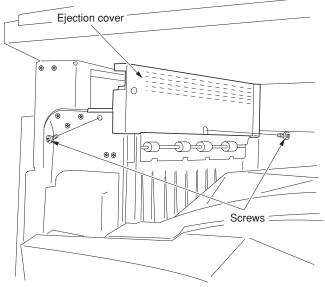


Figure 1-3-120-1



5. Remove the two screws and remove the ejection cover with the mounting plate.





6. Remove the two screws and then remove the inner ejection cover.

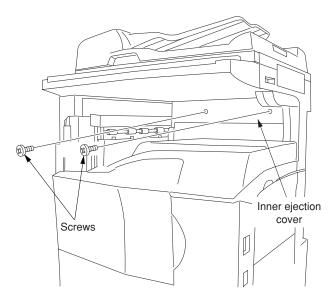


Figure 1-3-123

- 7. Insert the job separator into the copier from the front side and slide it to the left. Secure the front side using a +TP-A bronze screw M3  $\times$  05 and the rear side using a pin.
  - \* Check to see if the branch pressure lever on the rear side of the job separator has lowered.

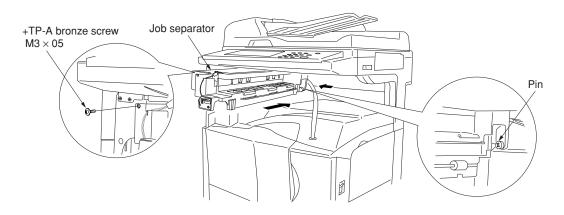
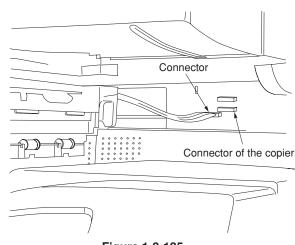


Figure 1-3-124

- 2DF
- 8. Connect the connector of the job separator to the lower connector of the copier.





- 9. Attach the job separator tray to the rail of the job separator by sliding it from the front side.
  - \* Insert the fitting section on the right side of the job separator tray into the recessed portion of the copier.
  - \* Put the hook on the right side onto the pin.
- 10. Open the left transfer cover and the front cover. Fit the left front cover JS to the location to which the upper front cover that has been removed in step 3 was fitted.

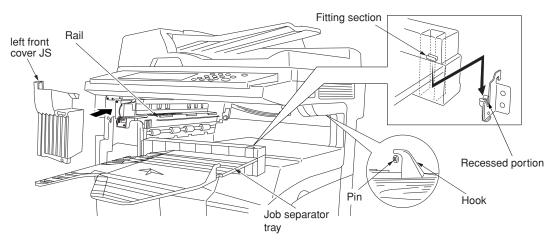


Figure 1-3-126

- 11. Insert the power plug of the copier into an outlet and turn the main switch on.
- 12. Set the "copy ejection location" of the machine default settings to job separator.
- 13. Make a test copy to check that a copy is ejected to the job separator tray.

# 1-3-16 Installing the Network Facsimile System (option)

#### Procedure

1. Remove 13 screws and take off the rear cover.

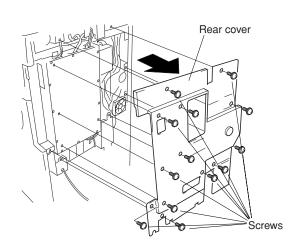


Figure 1-3-127

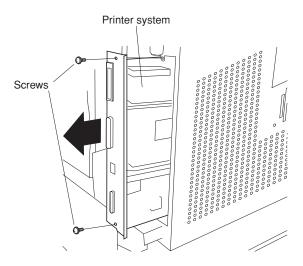


Figure 1-3-128

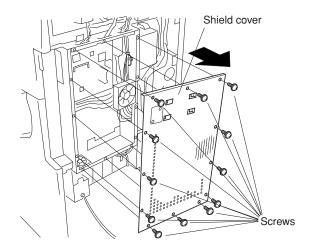


Figure 1-3-129

- 2. Remove the 2 screws holding the printer system in place, and pull the printing system
  - out of the shield cover.

3. Remove 13 screws and take off the shield

cover.

• If the printing system is installed

- 2DF
- 4. Move the film out of the way to the left, and fasten the fax board into place using four M3  $\times$  06 chrome binding screws.

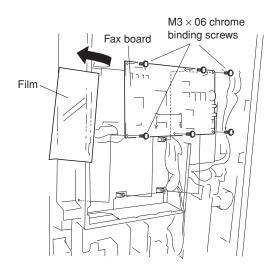


Figure 1-3-130

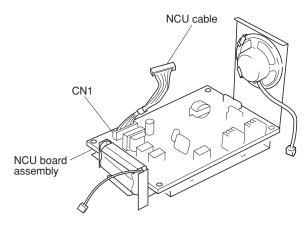


Figure 1-3-131

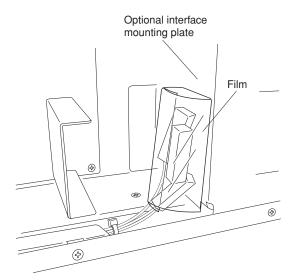
NCU board assembly M3 × 06 chrome binding screws



5. Connect the NCU cable to connector CN1 on the NCU board assembly.

- 6. Fasten the NCU board assembly into place from the bottom with two  $M3 \times 06$  chrome binding screws.
- 7. Connect the three connectors from the NCU board assembly to the corresponding connectors on the fax board, as follows:
  - Speaker 2-pin connector  $\rightarrow$  YC7
  - NCU board connector  $\rightarrow$  YC3
  - Battery connector  $\rightarrow$  YC6

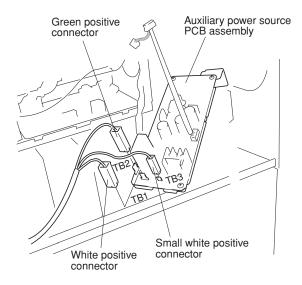
 Remove the film that fixes the three positive connectors of the power source PCB from the optional interface mounting plate.
 Important: Dispose of the film that has been removed.

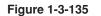




Auxiliary power source PCB assembly







 Connect the FAX-PCB-Power cable to connector CN1 on the auxiliary power source PCB assembly.

- 10. Connect the three positive connectors on the power board to the corresponding connectors on the auxiliary power source PCB assembly, as follows.
  - White positive connector  $\rightarrow$  TB1 (white)
  - Green positive connector  $\rightarrow$  TB2 (green)
  - Small white positive connector  $\rightarrow$  TB3

 Fit the catch on the auxiliary power unit into the mount hole in the copier, and fasten the auxiliary power unit into place with one M3 × 06 chrome binding screw.

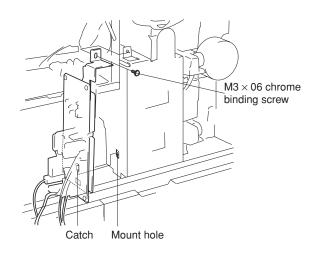


Figure 1-3-136

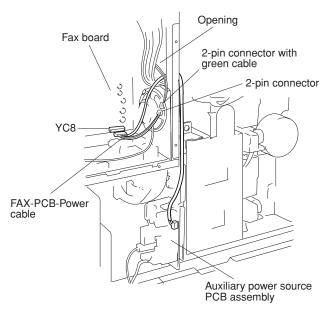


Figure 1-3-137

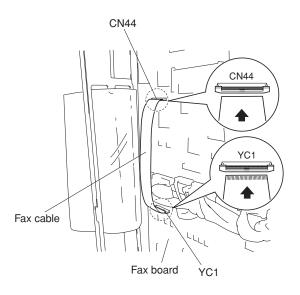


Figure 1-3-138

- 12. Through the opening of controller-box above the speaker, connect the FAX-PCB-Power cable on the auxiliary power source PCB assembly to connector YC8 on the fax board.
- 13. Connect the 2-pin connector to the 2-pin connector with green cable.

- 14. Unlock YC1 on the fax board by pulling its connector housing.
- 15. Hold the fax cable with its conductive side facing up, insert it into connector YC1, then push the housing back in to lock the connector.
- 16. Hold the other end of the fax cable with its conductive side facing down, and connect it to connector CN44 on the main PCB. (Pull the CN44 housing out to release the connector lock, then insert the cable, and then push the housing back in.) Important: Be sure to push the fax cable all the way in, and be sure that the connection is straight. A poor connection may result in a variety of problems.

17. Fasten the shield cover into place with 13 screws.

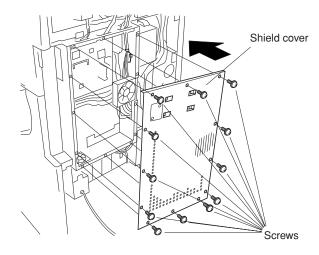


Figure 1-3-139

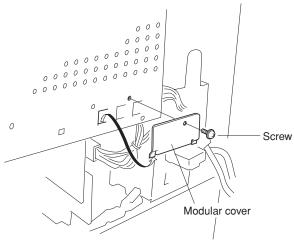


Figure 1-3-140

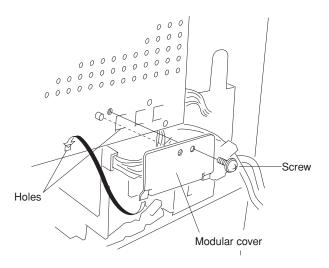


Figure 1-3-141

18. Remove 1 screw and take off the modular cover.

19. Hang the modular cover onto the holes on the controller-box cover, and fasten it into place with 1 screw.

- If the printing system was installed
- 20. Reinstall the printing system into the shield cover, fastening it into place with 2 screws.

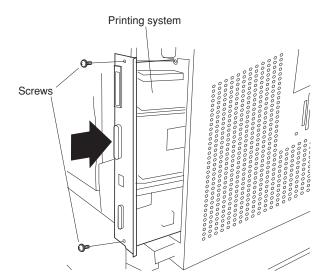


Figure 1-3-142

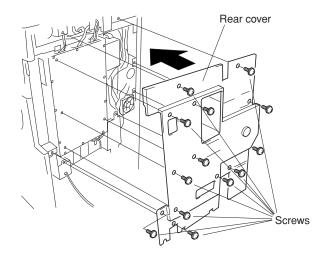


Figure 1-3-143

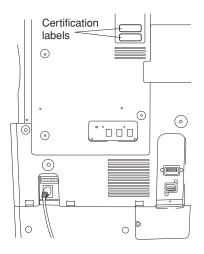


Figure 1-3-144

21. Reattach the rear cover with 13 screws.

22. Adhere the certification labels to the rear cover at the locations indicated in the illustration (only 120 V Spac.).

23. Take the power label from the fax-kit label sheet, and adhere it to the copier directly under the main switch.

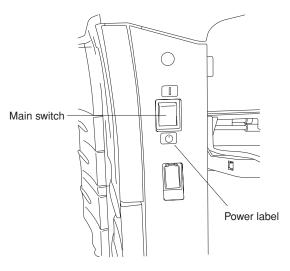
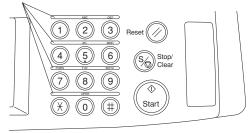


Figure 1-3-145

- 24. Take the alphabet labels from the fax-lit label sheet, and adhere them above the corresponding numeric keys on the operation panel.
  - In Asia, use the "PQRS TUV WXYZ" label, and do not use the "PRS TUV WXZ" and "OPER" labels.

Alphabet labels





- 25. Connect the L terminal to the phone circuit using a modular connector cable.
  Important: On 120 V systems, use the included modular connector cable to make the connection.
- 26. After installation is complete, the fax board must be initialized (see the P.1-3-42).

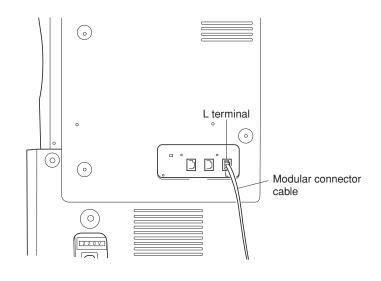
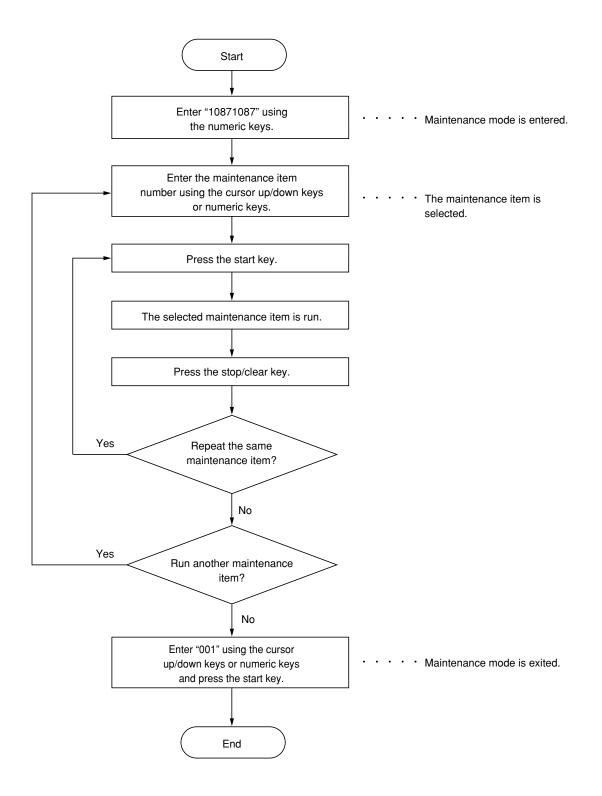


Figure 1-3-147

## 1-4-1 Maintenance mode

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

### (1) Executing a maintenance item



## (2) Maintenance mode item list

Section	Item No.	Maintenance item contents	Initial setting*
General	U000	Outputting an own-status report	—
	U001	Exiting the maintenance mode	—
	U003	Setting the service telephone number	*********
	U004	Setting the machine number	000000
	U005	Copying without paper	_
	U019	Displaying the ROM version	—
Initialization	U020	Initializing all data	_
	U021	Initializing counters and mode settings	_
	U022	Initializing data for optical system	_
Drive, paper	U030	Checking motor operation	_
feed, paper	U031	Checking switches for paper conveying	_
conveying and cooling system	U032	Checking clutch operation	—
oooling oyotonn	U033	Checking solenoid operation	_
	U034	<ul><li>Adjusting the leading edge registration</li><li>Adjusting the center line</li></ul>	0.5/0/-0.1 7.2/0
	U035	Setting folio size • Length/Width • Width	330 210
	U038	Checking the copier cover switch	—
	U051	Adjusting the amount of slack in the paper • Regist data • Feed data	0/0/0 110/20/0/0/0/0
	U053	Performing fine adjustment of the motor speed	
		• Drive motor	7
		<ul><li>Eject motor</li><li>Polygon motor</li></ul>	9
	U060	Adjusting the scanner input properties	11
Optical	U061	Turning the exposure lamp on	
	U063		0
	U065		0
	0000	Main scanning direction/auxiliary scanning direction	0/-2
	U066	Adjusting the leading edge registration for scanning an original on the contact glass	7/0
	U067	Adjusting the center line for scanning an original on the contact glass	-18/0
	U068	Adjusting the scanning position for originals from the DF	0
	U070	Adjusting the DF magnification	-3
	U071	Adjusting the DF scanning timing • DF leading edge registration/DF trailing edge registration	8/0
	U072	Adjusting the DF center line	15
	U073	Checking scanner operation	
	U074	Adjusting the DF input light luminosity	1
	U087	Turning the DF scanning position adjust mode on/off	On
	U088	Setting the input filter (moiré reduction mode)	Off
	U089	Outputting a MIP-PG pattern	
	U091	Checking shading	
	U092	Adjusting the scanner automatically	
	U093	Setting the exposure density gradient • Text and photo/text/photo/text in fax/photo in fax mode	0/0/0/2/3
	U099	Checking and setting the original size detection sensor	

\* Initial setting for executing maintenance item U020

Section	Item No.	Maintenance item contents	Initial setting*
High voltage	U100	Checking the operation of main high voltage	184
	U101	Setting high voltages • Developing bias AC component frequency at image formation • Developing bias AC component duty at image formation • Developing shift bias potential at image formation • Transfer control voltage	0 0 0 120
	U109		
	U110	Checking/clearing the drum count	
	U112	Setting toner refresh operation • Time of toner refreshment/Developing bias on time	120/700
	U113	Operating the drum refreshment	
Developing	U130	Initial setting for the developer	—
	U144	Setting toner loading operation	MODE2
	U150	Checking sensors and switches for toner	
	U157	Checking/clearing the developing drive time	
	U158	Checking/clearing the developing count	_
Fixing and cleaning	U161	Setting the fixing control temperature • Control temperature during copying • Primary stabilization fixing temperature • Secondary stabilization fixing temperature • OFF time of fixing heater M	165 110 110 12
	U162	Stabilizing fixing forcibly	
	U163	Resetting the fixing problem data	—
	U165	Checking/clearing fixing counts	—
	U196	Turning the fixing heater on	
	U199	Checking the fixing temperature	_
Operation	U200	Turning all LEDs on	
panel and	U201	Initializing the touch panel	_
support	U202	Setting the KMAS host monitoring system	
equipmen	U203	Operating DF separately	_
	U204	Setting the presence or absence of a key card or key counter	
	U206	Setting the presence or absence of the coin vender	
	U207	Checking the operation panel keys	_
	U208	Setting the paper size for the large paper deck	A4
	U211		
	U217	Setting 8 <sup>1</sup> / <sub>2</sub> " × 13" paper	
	U236	Setting the limit for the ejection section of the built-in finisher	_
	U237	Setting finisher stack quantity	
	U243	Checking the operation of the DF motors, solenoids and clutch	
	U244	Checking the DF switches	_
	U245	Checking messages	_
	U246	Setting the finisher • Amount of slack in the paper • Booklet stapling position adjustment	0
		Side registration cursor stop position	0
	U247	Checking the operation of large paper deck and paper feed desk	
	U249		
Mode setting	U250		500000 (35/40 cpm 400000 (25 cpm
	U251	Checking/clearing the maintenance count	
	U252	Setting the destination	Japan

Section	Item No.	Maintenance item contents	Initial setting*
Mode setting	U253	5	Double count
	U254	Turning auto start function on/off	On
	U255		90
	U256	Turning auto preheat/energy saver function on/off	On
	U258	Switching copy operation at toner empty detection	Single mode, 70
	U260	Changing the copy count timing	After ejection
	U264	Setting the display order of the date	Inch specifications: MONTH-DATE-YEAR Metric specifications: DATE-MONTH-YEAR
	U265	Setting OEM purchaser code	
	U274	Setting the laser scanner unit type	0
	U329	Default setting Auto rotation copy/Sort copy	On/On
	U330	Setting the number of sheets to enter stacking mode during sort operation	—
	U331	Switching the finisher eject section	OFF
	U332	Setting the size conversion factor	_
	U341	Specific paper feed location setting for printing function	—
	U342	Setting the ejection restriction	On
	U343	Switching between duplex/simplex copy mode	Off
	U344	Setting preheat/energy saver mode	ENERGY STAR
	U345	Setting the value for maintenance due indication	
	U346	Setting the sleep mode operation	MODE0
Image	U402	Adjusting margins of image printing	—
processing	U403	Adjusting margins for scanning an original on the contact glass	_
	U404	Adjusting margins for scanning an original from the DF	—
	U407	Adjusting the leading edge registration for memory image printing	0
	U500	Setting the limit on data size for e-mail transmission	LITTLE
	U501	Setting image area	ON
	U504	Initializing the scanner NIC	—
	U505	Setting Data Base Assistant	On
	U540	Adjusting the auxiliary scanning magnification	0
Others	U901	Checking/clearing copy counts by paper feed locations	_
	U902	Checking/clearing finisher punch count	20000
	U903	Checking/clearing the paper jam counts	_
	U904	Checking/clearing the service call counts	_
	U905	Checking/clearing counts by optional devices	_
	U906	Resetting partial operation control	_
	U908	Changing the total counter value	_
	U910	Clearing the black ratio data	_
	U911	Checking/clearing copy counts by paper sizes	
	U937	Model name setting	**30
	U960	Outputting the machine used circumstances list	
		Shading plate switching setting	_
	U990		_
	U991		_
	U992		_
	U993		
		ng maintenance item U020	

\* Initial setting for executing maintenance item U020 1-4-4

Maintenance item No.		Description				
U000	Outputting an own-status report					
	<b>Description</b> Outputs lists of the current settings of the maintenance items, and paper jam and service call occurrences.					
		enance items, or paper jam or service call occurrences. RAM, output a list of the current settings of the maintenance items to eplacement.				
	Method 1. Press the start key. The screen for se					
	2. Select the item to be output. The select Display	Output list				
	MAINTENANCE JAM	List of the current settings of the maintenance modes List of the paper jam occurrences				
		List of the service call occurrences				
	3. Press the start key. The interrupt copy When A4/11" × 8 <sup>1</sup> / <sub>2</sub> " paper is available When output is complete, the screen	e, a report of this size is output. If not, specify the paper feed location.				
	<b>Completion</b> Press the stop/clear key at the screen for displayed.	selecting an item. The screen for selecting a maintenance item No. is				
U001	Exiting the maintenance mode					
0001	Description					
	Exits the maintenance mode and returns	to the normal copy mode.				
	<b>Purpose</b> To exit the maintenance mode.					
	Method Press the start key. The normal copy mod	de is entered.				

Maintenance item No.	Description
U003	Setting the service telephone number
	Description
	Sets the telephone number to be displayed when a service call code is detected.
	<b>Purpose</b> To set the telephone number to call service when installing the machine.
	Method
	Press the start key. The currently set telephone number is displayed.
	Setting
	<ol> <li>Enter a telephone number (up to 15 digits) using the numeric keys.</li> <li>To enter symbols such as hyphens and parentheses, select as required from the symbols displayed on the touch panel as shown below. To move the cursor, press LEFT or RIGHT in the bottom row.</li> </ol>
	* #
	- (Space)
	LEFT RIGHT
	2. Press the start key. The phone number is set, and the screen for selecting a maintenance item No. is displayed.
	<b>Completion</b> To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for
	selecting a maintenance item No. is displayed.
U004	Setting the machine number
	Description
	Displays and changes the machine number.
	Purpose To check or set the machine number.
	Method
	Press the start key. The currently set machine number is displayed.
	Setting
	<ol> <li>Enter the last six digits of the machine number using the numeric key. Do not enter the first two digits, 3 and 7.</li> </ol>
	2. Press the start key. The machine number is set, and the screen for selecting a maintenance item No. is displayed.
	Completion
	To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description					
U005	Copying without paper					
	Description Simulates the copy operation without paper feed.					
	Purpose To check the overall operation of the m	achine.				
	Method					
	<ol> <li>Press the start key. The screen for</li> <li>Select the item to be operated. The</li> </ol>	selecting an item is displayed. e selected item is displayed in reverse.				
	Display	Operation				
	PPC PPC + DF	Only the copier operates. Both the copier and DF operate (continuous operation).				
	<ul> <li>made.</li> <li>Paper feed locations</li> <li>Magnifications</li> <li>Simplex or duplex copy mode</li> <li>Number of copies: in simplex copy copy mode, continuous copying is</li> <li>Copy density</li> </ul>	node screen is displayed. ed on the copy mode screen. Changes in the following settings can be by mode, continuous copying is performed when set to 999; in duplex is performed regardless of the setting. r than the energy saver (preheat) key				
	<ul> <li>present, the paper feed pulley does</li> <li>6. Press the start key. The operation is copy operation is simulated with screen for selecting an item is disp</li> <li>7. To stop continuous operation, press</li> <li>Completion</li> <li>Press the stop/clear key at the screen for</li> </ul>	starts. but paper under the set conditions. When operation is complete, the layed.				
U019	displayed. <b>Displaying the ROM version</b> Description Displays the part number of the ROM fitted to each PCB.					
	Purpose To check the part number or to decide if the ROM version is new from the last digit of the number.					
	Method Press the start key. The last eight digits of the part number indicating the ROM version are displayed.					
	Display	Description				
	MAIN MMI LANGUAGE(Stand.) LANGUAGE(Option) MAIN BOOT MMI BOOT NETWORK SCANNER	Main ROM IC Operation ROM IC Standard language ROM IC Optional language ROM IC Boot of main ROM IC Boot of operation ROM IC Network scanner ROM IC				
	Completion	or selecting a maintenance item No. is displayed.				

Maintenance item No.	Description					
U020	Initializing all data					
	<b>Description</b> Initializes all the backup RAM on the main PCB to return to the original settings.					
	Purpose Used when replacing the backup RAM on the main PCB.					
	<ol> <li>Method         <ol> <li>Press the start key. The screen for executing is displayed.</li> <li>Press EXECUTE on the touch panel. It is displayed in reverse.</li> <li>Press the start key. All data in the backup RAM is initialized, and the original settings for Japan specifications are set.             When initialization is complete, the machine automatically returns to the same status as when the main switch is turned on and the display language to the initial setting of English.         </li> </ol></li></ol>					
	Completion To exit this maintenance item without executing initialization, press the stop/clear key. The screen for selecting					
	a maintenance item No. is displayed.					
U021	Initializing counters and mode settings					
	<b>Description</b> Initializes the setting data other than that for adjustments due to variations between respective machines, i.e., settings for counters, service call history and mode settings. As a result, initializes the backup RAM according to the specifications depending on the destination selected in U252.					
	Purpose Used to return the machine settings to the factory settings.					
	<ul> <li>Method</li> <li>1. Press the start key. The screen for executing is displayed.</li> <li>2. Press EXECUTE on the touch panel. It is displayed in reverse.</li> <li>3. Press the start key. All data other than that for adjustments due to variations between machines is initialized based on the destination setting.</li> </ul>					
	Completion					
U022	Press the stop/clear key. The screen for selecting a maintenance item No. is displayed. Initializing data for optical system					
0022	Description					
	Initializes only the data set for the optical section. <b>Purpose</b>					
	To be executed after replacing the scanner unit.					
	Method 1. Press the start key. The screen for executing is displayed.					
	2. Press SCANNER on the touch panel.					
	<ol> <li>Press EXECUTE on the touch panel. It is displayed in reverse.</li> <li>Press the start key. The data for the optical section (U060 to 067, U088 to 099, U403, U990 and U991) is initialized.</li> </ol>					
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.					

n starts.
splayed.
spiayeu.
splayed.
playea.

Maintenance item No.	Description					
U032	Checking clutch operation					
	Description Turns each clutch on.					
	Purpose					
	To check the operation of each	ו clutch.				
	Method					
		reen for selecting an item is displayed. The selected item is displayed in reverse, and the clutch turns on fo	or 1 s.			
	Display	Clutches				
	PF1 PF2 PFBYP FEED1 FEED2	Upper paper feed clutch (PFCL-U) Lower paper feed clutch (PFCL-U) Bypass paper feed clutch (BYPPFCL) Feed clutch 1 (FCL1) Feed clutch 2 (FCL2)				
	FEED3	Feed clutch 3 (FCL3)				
	BYPF	Bypass feed clutch (BYPFCL)				
	RES	Registration clutch (RCL)				
	DUPF *Optinal.	Duplex feed clutch (DUPFCL)*				
	Completion					
		screen for selecting a maintenance item No. is displayed.				
	Turns each solenoid on.					
	Purpose To check the operation of each Method 1. Press the start key. The sci	n solenoid. Freen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns o	on for			
	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op	reen for selecting an item is displayed.	on for			
	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL	ereen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of <b>Solenoids</b> Toner feed solenoid (TNFSOL)	on for			
	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of <b>Solenoids</b> Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL)	on for			
	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)*	on for			
	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional.	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on	on for			
	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			
U034	Purpose To check the operation of each Method 1. Press the start key. The sci 2. Select the solenoid to be op 1 s. Display TONER SOL BRANCH1 SOL BRANCH2 SOL MAIN SW SOL *Optional. Select MAIN SW SOL to ch Completion Press the stop/clear key. The s Adjusting the print start timin Adjustment	reen for selecting an item is displayed. perated. The selected item is displayed in reverse, and the solenoid turns of Solenoids Toner feed solenoid (TNFSOL) Feedshift solenoid (FSSOL) Feedshift solenoid (FSSOL)* Main switch turns on heck the operation of the main switch in auto shut off. screen for selecting a maintenance item No. is displayed.	on for			

intenance tem No.	Description						
U035	Setting folio size						
0000	Description Changes the image area for copying onto folio size paper.						
	Purpose To prevent the image at the trailing edge, or right or left side of the paper from not being copied by setting th actual size of the folio paper used.						
	Method Press the start key. The sc		cting an item i	is displayed.			
	Setting 1. Select the item to be s 2. Change the setting usi						
	Display	Setting		Setting range	Initial setting		
	LENGTH DATA WIDTH DATA	Length Width		330 to 356 mm 200 to 220 mm	330 210		
	3. Press the start key. Th Completion						
1000	Press the stop/clear key. T		r selecting a n	naintenance item No.	is displayed.		
U038	Checking the copier cov Description Displays the on-off status		r switch.				
	Displays the on-off status of each cover switch.  Purpose Table as high the purity of each cover shows the						
	To check if the switches of covers operate correctly.						
		r covers opera	ate correctly.				
	Method 1. Press the start key. A I	list of the swit	ches, the on-o		be checked, are displ	ayed.	
	Method 1. Press the start key. A I 2. Open and close each	list of the swit cover to chec	ches, the on-o k the status o	f each switch.		-	
	Method 1. Press the start key. A I 2. Open and close each When the cover is clos	list of the swit cover to chec ed, the switch	ches, the on-o k the status o	f each switch.		-	
	Method 1. Press the start key. A l 2. Open and close each When the cover is clos be displayed normally.	list of the swit cover to chec ed, the switch	ches, the on-o k the status o n shall be displ	f each switch.		-	
	Method 1. Press the start key. A I 2. Open and close each o When the cover is clos be displayed normally. Display	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches	f each switch. ayed in reverse. Wher	the cover is open, the	-	
	Method 1. Press the start key. A I 2. Open and close each o When the cover is clos be displayed normally. Display INTER LOCK SW	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch	f each switch. ayed in reverse. Wher 1 and 2 (SSW1 and 2	the cover is open, the	-	
	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover	f each switch. ayed in reverse. Wher	the cover is open, the	-	
	Method 1. Press the start key. A I 2. Open and close each o When the cover is clos be displayed normally. Display INTER LOCK SW FRONT COVER	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover Conveying o	f each switch. ayed in reverse. Wher 1 and 2 (SSW1 and 2 switch (FRCSW)	the cover is open, the	-	
	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
	Method 1. Press the start key. A I 2. Open and close each of When the cover is close be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	
U051	Method 1. Press the start key. A I 2. Open and close each of When the cover is closs be displayed normally. Display INTER LOCK SW FRONT COVER LEFT1 COVER LEFT2 COVER Completion Press the stop/clear key. T Adjusting the amount of Adjustment	list of the swit cover to chec ed, the switch	ches, the on-o k the status o shall be displ Switches Safty switch Front cover s Conveying c Side cover s	f each switch. ayed in reverse. When 1 and 2 (SSW1 and 2 switch (FRCSW) sover switch (CCSW) witch (SCSW)	) the cover is open, the	-	

Maintenance item No.	Description							
U053	Performing fine adjustment of the motor speed Description							
	Performs fine adjustment of the speeds of the motors.							
	<b>Purpose</b> Used to adjust the speed of the respective motors when the magnification is not correct.							
	Method Press the start key. The screen for selecting an item is displayed.							
	Setting							
	<ol> <li>Select the item to be set. The selected item is displayed in reverse.</li> <li>Change the setting using the cursor up/down keys.</li> </ol>							
	Display Description Setting range Initial setting							
	MAIN MOTOR Drive motor speed adjustment 0 to +14 7							
	EJECT MOTOREject motor speed adjustment0 to +149POLYGON MOTORPolygon motor speed adjustment-20 to +200							
	MAIN MOTOR /EJECT MOTOR							
	the image shorter in the auxiliary scanning direction. POLYGON MOTOR Increasing the setting makes the image longer in the main scanning direction and shorter in the auxiliary scanning direction; decreasing the setting makes the image shorter in the main scanning direction and longer in the auxiliary scanning direction. EJECT MOTOR Normally no change is necessary but this can be used as countermeasures against wrinkles (waving) of paper. 3. Press the start key. The value is set. Interrupt copy mode While this maintenance item is being performed, a VTC pattern shown below is output in interrupt copy mode. Correct values for an A3/11" × 17" output are: A = 300 ± 1.5 mm B = 260 ± 1.0 mm Figure 1-4-1							
	<ul> <li>Adjustment <ol> <li>Output an A3/11" × 17" VTC pattern in interrupt mode.</li> <li>Measure A and B on the VTC pattern (Figure 1-4-1), and perform the following adjustments if they are different from the correct sizes: <ul> <li>A: Drive motor speed adjustment</li> <li>B: Polygon motor speed adjustment</li> </ul> </li> <li>Completion Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed. </li> </ol></li></ul>							

Maintenance item No.	Description						
U060	, , , , , , , , , , , , , , , , , , , ,						
	<b>Description</b> Adjusts the image scanning density in text, text and photo, or photo mode.						
	<b>Purpose</b> Used when the entire image appears to	oo dark or light.					
	Method						
	Press the start key. The screen for exec	cuting is displayed.					
	<b>Setting</b> 1. Change the setting using the curso	r up/down keys.					
	Descrition	Setting range	Initial setting				
	Image scannnig density	0 to +24	11				
			reasing it makes the density higher.				
	Interrupt copy mode		n an original can be made in interrupt copy mode	e.			
	Completion		he screen for selecting a maintenance item No.				
	Caution The following settings are also reset to • Exposure density gradient set in main • Exposure set in the copy default item	tenance mode (U093	3)				
U061	Turning the exposure lamp on						
	<b>Description</b> Turns the exposure lamp on.						
	Purpose						
	To check the exposure lamp.						
	Method 1. Press the start key. The screen for 2. Press the start key. The exposure la 3. To turn the exposure lamp off, press	amp lights.	d.				
	Completion	s the stop/clear key.					
	Press the stop/clear key. The screen fo	r selecting a mainter	ance item No. is displayed.				

item No.			Desc	ription						
U063	Adjusting the shading position									
	Description									
	Cha	anges the shading position.								
		pose								
					r the shading plate is cleaned. This					
		hat shading is possible withou			shading position should be change					
		thod	· · · · · · · · · · · · · · · · · · ·							
		Press the start key. The scree Change the setting using the								
		Description	Setting range	Initial setting	Change in value per step					
		Shading position	-5 to +5	0	0.17 mm					
	3.	position toward the machine le Press the start key. The value	eft.	toward the machir	ne right, and decreasing it moves the					
		errupt copy mode ile this maintenance item is bei	ng performed, copyi	ng from an original	can be made in interrupt copy mod					
		mpletion	, u .		1 J. 1 J. 1. 1.					
		ss the stop/clear key at the s blayed.	creen for adjustmer	nt. The screen for s	selecting a maintenance item No.					
U065		usting the scanner magnific	ation							
0005	-	ustment								
	-	e pages 1-6-27 and 28.								
U066		usting the leading edge regi	stration for scanni	ng an original on	the contact glass					
	-	ustment		5 5	5					
		e page 1-6-29.								
U067	Adj	usting the center line for sca	anning an original	on the contact gla	ISS					
	-	<b>ustment</b> e page 1-6-30.								
	See page 1-6-30.									
U068		usting the scanning position	Adjusting the scanning position for originals from the DF Description							
U068	Adj Des	scription	-							
U068	Adj Des Adji	scription usts the position for scanning o	-							
U068	Adj Des Adj Pur	scription usts the position for scanning o pose	originals from the DF	Ę	nal and the copy image when the [					
U068	Adj Des Adju Pur Use	scription usts the position for scanning o pose	originals from the DF	Ę	nal and the copy image when the [					
U068	Adj Des Adju Pur Use is u	scription usts the position for scanning or pose ed when there is a regular error	originals from the DF	Ę	nal and the copy image when the [					
U068	Adj Des Adju Pur Use is u Met	scription usts the position for scanning or pose ed when there is a regular error sed.	originals from the DF	<del>.</del> g edges of the origi	nal and the copy image when the [					
U068	Adj Des Adju Use is u Met Pre Set	scription usts the position for scanning or pose ed when there is a regular error sed. thod ss the start key. The screen fo ting	priginals from the DF between the leading r executing is displa	=. g edges of the origi yed.	nal and the copy image when the [					
U068	Adj Des Adju Use is u Met Pre Set	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the o	r executing is displa	E g edges of the origi yed.						
U068	Adj Des Adju Use is u Met Pre Set	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range	edges of the origi yed. Initial setting	Change in value per step					
U068	Adj Des Adju Use is u Met Pre Set	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position	r executing is displat cursor up/down keys Setting range -2 to +3	E. g edges of the origi yed. S. Initial setting	Change in value per step 0.254 mm					
U068	Adj Des Adju Pur Use is u Met Pre Set 1.	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves the	r executing is displa cursor up/down keys <b>Setting range</b> -2 to +3 the image backward	E. g edges of the origi yed. S. Initial setting	Change in value per step 0.254 mm					
U068	Adj Des Adju Pur Use is u Met Pre Set 1.	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen for ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value	r executing is displa cursor up/down keys <b>Setting range</b> -2 to +3 the image backward	E. g edges of the origi yed. S. Initial setting	Change in value per step 0.254 mm					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value mpletion	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen for ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value mpletion	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value mpletion	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value mpletion	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value mpletion	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value mpletion	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					
U068	Adj Des Adju Pur Use is u Met Pre Set 1. 2. Cor	scription usts the position for scanning of pose ed when there is a regular error sed. thod ss the start key. The screen fo ting Change the setting using the of Description Scanning position Increasing the setting moves to Press the start key. The value mpletion	briginals from the DF between the leading r executing is displa cursor up/down keys Setting range -2 to +3 the image backward is set.	edges of the origi yed. Initial setting 0 , and decreasing it	Change in value per step0.254 mmmoves the image forward.					

iintenance item No.		Descri	otion			
J070	Adjusting the DF magnification					
	Description					
	Adjusts the DF original scanning	speed.				
	<b>Purpose</b> To be executed if the correct mag	nification is not obtaine	d in the auxiliary s	canning direction when the on	tion	
	DF is used.					
	Caution					
	Before making this adjustment, e	nsure that the following	adjustments have	e been made in maintenance r	100	
	U053 - U065 - U070					
	Method Press the start key. The screen for	or executing is displaye	d			
	Setting	or executing is displaye	u.			
	1. Change the setting using the	cursor up/down keys.				
	Description	Setting range	Initial setting	Change in value per step		
	Original conveying motor sp	beed -25 to +25	-3	0.1%		
	Increasing the setting makes		decreasing it mak	es the image shorter.		
	<ol><li>Press the start key. The value</li></ol>	e is set.				
	2. Press the start key. The value Interrupt copy mode	e is set.				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				
	Interrupt copy mode While this maintenance item is be Completion Press the stop/clear key at the sc	eing performed, copying				

em No.	Description							
071 Ad	Adjusting the DF scanning timing							
	Description							
-	Adjusts the DF original scanning timing.							
	<b>Purpose</b> To be executed if there is a regular error between the leading or trailing edges of the original and the co							
	image when the optional DF is used.							
	Caution							
		stment, ensure that the following	ng adjustments h	ave been made	in maintenance m	ode		
UC	034 ► U066 ► U071							
	thod							
	-	screen for selecting an item is	s displayed.					
	t <b>ting</b> Select the item to be	e set. The selected item is disp	plaved in reverse					
		using the cursor up/down keys		•				
	Disalar	Description	0	In this I as a think of	Change in			
	Display	Description	Setting range	Initial setting	value per step			
	LEAD EDGE ADJ TRAIL EDGE ADJ	DF leading edge registration DF trailing edge registration		8 0	0.17 mm 0.17 mm			
		g moves the copy image back		asing it moves th	ne copy image forw	/arc		
3.	Press the start key.	The value is set.		C C				
Inte	errupt copy mode							
		, decrease the setting of LEAD						
			opy Copy nple 1 example	2				
		exar		2				

tenance m No.	Description						
072	Adjusting the DF center line						
	Description						
	Adjusts the scanning start position for the DF original.						
	Purpose	gular arrar batwoon t	he contore of the e	riginal and the copy image wher			
	optional DF is used.	gulai enoi between t		nginal and the copy image when			
	Caution						
	Before making this adjustment	, ensure that the follow	ving adjustments ha	ve been made in maintenance m			
	U034 - U067 - U072						
	Method						
	Press the start key. The screer	n for executing is disp	layed.				
	Setting 1. Change the setting using the	ha aurear un/dawn ka					
	Description	Setting range	Initial setting	Change in value per step			
	DF center line	-39 to +39	15	0.17 mm			
			_				
	2. Press the start key. The va		gnt, and decreasing	it moves the image to the left.			
	Interrupt copy mode While this maintenance item is	being performed, cop	ying from an origina	I can be made in interrupt copy m			
	Adjustment						
	1. In interrupt copy mode, ma						
	<ol> <li>Check the copy image and For copy example 1, increase</li> </ol>		as follows.				
	For copy example 2, decre						
		Reference					
		Original	Copy C	Сору			
		Original		mple 2			
		Fier	ure 1-4-3				
		Fig	lie 1-4-5				
	•						
	<b>Completion</b> Press the stop/clear key at the	screen for selecting a	n item The screen fr	or selecting a maintenance item N			
	Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. displayed.						

tem No.								
J073	Checking scanner operation							
	Description							
		nulates the scanner o	peration under	arbitrary condi	itions.			
		r <b>pose</b>	tion					
	To check scanner operation. Method							
		Press the start key.	The screen for s	selecting an ite	em is displav	ed.		
	2.	Select the item to be	e changed. The	selected item	is displayed			
	3.	Change the setting	using the cursor	r up/down keys	S.			
		Display		Operating co	onditions		Setting range	
		ZOOM		Magnification	1		100 to 400%	
		SIZE		Original size			See below.	
		LAMP		On and off of	the exposur	re lamp	0 (off) or 1 (on)	
		Original sizes for ea						
		Setting	Paper siz	ze	Setting		Paper size	
		8	A4		42		A5R	
		9 24	B5 11"×8 <sup>1</sup> /2	o"	47 52		Folio 11"×17"	
		36	A3	-	53		11"×15"	
		39	B4		55		8 <sup>1</sup> /2" × 14"	
		40	A4R B5R		56 58		8 <sup>1</sup> /2" × 11" 5 <sup>1</sup> /2" × 8 <sup>1</sup> /2"	
		Press the strat key.			50		51/2 × 01/2	
	<ul> <li>6. Press the start key. Scanning starts under the selected conditions.</li> <li>7. To stop operation, press the stop/clear key.</li> <li>Completion</li> </ul>							
	7. <b>Co</b> i	To stop operation, p mpletion	Scanning starts ress the stop/cl	ear key.	ected condition		ntonono iton No io	diaglassa
1074	7. <b>Co</b> r Pre	To stop operation, p mpletion ess the stop/clear key	Scanning starts ress the stop/clo when scanning	under the sele ear key. g stops. The so	ected condition		ntenance item No. is	displaye
U074	7. Cor Pre Adj Des	To stop operation, p mpletion ss the stop/clear key justing the DF input scription	Scanning starts ress the stop/clo when scanning t <b>light luminosi</b>	under the sele ear key. g stops. The so ity	ected conditions	ecting a mai		displaye
U074	7. Cor Pre Adj Des Adj	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity o	Scanning starts ress the stop/clo when scanning t <b>light luminosi</b>	under the sele ear key. g stops. The so ity	ected conditions	ecting a mai		displaye
U074	7. Pre Adj Des Adj Use	To stop operation, p mpletion ess the stop/clear key justing the DF input scription usts the luminosity o rpose ed if the exposure arr	Scanning starts ress the stop/clo when scanning t <b>light luminosi</b> f the exposure la nount differs sign	under the sele ear key. g stops. The sc i <b>ty</b> amp for scann	ected conditions for selected conditions for selected conditions for selected conditions of the select	ecting a mai from the op		
U074	7. Pre Adj Des Adj Use whe	To stop operation, p mpletion ss the stop/clear key justing the DF input scription usts the luminosity o rpose	Scanning starts ress the stop/clo when scanning t <b>light luminosi</b> f the exposure la nount differs sign	under the sele ear key. g stops. The sc i <b>ty</b> amp for scann	ected conditions for selected conditions for selected conditions for selected conditions of the select	ecting a mai from the op	tional DF.	
J074	7. Pre Adj Des Adj Use whe	To stop operation, p mpletion ess the stop/clear key justing the DF input scription usts the luminosity o rpose ed if the exposure am en scanning an origin	Scanning starts ress the stop/clo when scanning t <b>light luminosi</b> f the exposure l nount differs sign nal from the DF.	under the sele ear key. g stops. The so ity amp for scann nificantly betwe	ected conditions ereen for selecting originals een when sc	ecting a mai from the op	tional DF.	
U074	7. Con Pre Adj Des Adj Pui Use whe Pre Set	To stop operation, p mpletion ess the stop/clear key justing the DF input scription usts the luminosity o rpose ed if the exposure am en scanning an origin thod	Scanning starts ress the stop/cle when scanning t <b>light luminosi</b> f the exposure le nount differs sign hal from the DF. screen for exect	under the sele ear key. g stops. The sc ity amp for scann nificantly betwe cuting is displa	ected conditions ereen for selecting originals een when sco yed.	ecting a mai from the op	tional DF.	
J074	7. Con Pre Adj Des Adj Pui Use whe Pre Set	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity o rpose ed if the exposure am en scanning an origin thod ess the start key. The sting	Scanning starts ress the stop/cle when scanning t <b>light luminosi</b> f the exposure le nount differs sign hal from the DF. screen for exect	under the sele ear key. g stops. The sc ity amp for scann nificantly betwe cuting is displa	ected conditions ereen for selecting originals een when sca yed.	ecting a mai from the op	tional DF.	
U074	7. Con Pre Adj Des Adj Pui Use whe Pre Set	To stop operation, p mpletion ess the stop/clear key justing the DF input scription usts the luminosity o rpose ed if the exposure am en scanning an origin thod ess the start key. The change the setting	Scanning starts ress the stop/cle when scanning t <b>light luminosi</b> f the exposure le nount differs sign hal from the DF. screen for exect using the cursor	under the sele ear key. g stops. The so ity amp for scann nificantly betwe cuting is displa	ected conditions ereen for selecting originals een when sca yed.	ecting a mai from the op anning an o	tional DF.	
J074	7. Con Pree Adj Des Adj Pun Use whe Pre Set 1.	To stop operation, p mpletion ess the stop/clear key justing the DF input scription usts the luminosity o rpose ed if the exposure am en scanning an origin thod ess the start key. The tting Change the setting Description DF input light lumin	Scanning starts ress the stop/clo when scanning t light luminosi f the exposure la nount differs sign hal from the DF. screen for exect using the cursor nosity ng makes the lur	under the sele ear key. g stops. The so ity amp for scann nificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher	ected conditions ereen for selecting originals een when sca yed. s. le Initia 1	ecting a mai from the op anning an o al setting	tional DF.	glass ar
U074	7. Con Pre Adj Des Adj Pun Use whe Pre Set 1.	To stop operation, p mpletion ess the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure am en scanning an origin thod ess the start key. The tting Change the setting DEscription DF input light lumin Increasing the settin	Scanning starts ress the stop/clo when scanning t light luminosi f the exposure la nount differs sign hal from the DF. screen for exect using the cursor nosity ng makes the lur	under the sele ear key. g stops. The so ity amp for scann nificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher	ected conditions ereen for selecting originals een when sca yed. s. le Initia 1	ecting a mai from the op anning an o al setting	ntional DF. riginal on the contact	glass ar
U074	7. Con Pre Adj Des Adj Des Me Pre Set 1. 2.	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure and en scanning an origin thod ass the start key. The sting Change the setting Change the setting DE input light lumin Increasing the settin Press the start key.	Scanning starts ress the stop/cle when scanning t <b>light luminosi</b> f the exposure le nount differs sign hal from the DF. screen for exect using the cursor nosity ng makes the lur The value is set	under the sele ear key. g stops. The sc ity amp for scann nificantly betwe cuting is displa up/down keys Setting rang 0 to 8 minosity higher	ected conditioners of the selected conditione	ecting a mai from the op anning an o al setting asing it make	ntional DF. riginal on the contact	glass ar
J074	7. Con Pree Adj Dese Adj Puu Use whe Pre Set 1. 2. Inte Wh Con Pre	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure am en scanning an origin thod ass the start key. The titing Change the setting Change the setting DEscription DF input light lumin Increasing the settin Press the start key. errupt copy mode ile this maintenance mpletion ass the stop/clear key	Scanning starts ress the stop/cle when scanning t light luminosi f the exposure le nount differs sign hal from the DF. screen for exec using the cursor nosity in makes the lum The value is set item is being pe	under the sele ear key. g stops. The so ity amp for scann hificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher t	ected conditions ereen for selecting originals een when sca yed. s. <b>1</b> r, and decreating ng from an o	ecting a mai from the op anning an o al setting asing it make	ntional DF. riginal on the contact	glass ar er.
U074	7. Con Pree Adj Dese Adj Puu Use whe Pre Set 1. 2. Inte Wh Con Pre	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure am en scanning an origin thod ass the start key. The titing Change the setting Change the setting DE scription DF input light lumin Increasing the settin Press the start key. Errupt copy mode ile this maintenance mpletion	Scanning starts ress the stop/cle when scanning t light luminosi f the exposure le nount differs sign hal from the DF. screen for exec using the cursor nosity in makes the lum The value is set item is being pe	under the sele ear key. g stops. The so ity amp for scann hificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher t	ected conditions ereen for selecting originals een when sca yed. s. <b>1</b> r, and decreating ng from an o	ecting a mai from the op anning an o al setting asing it make	ntional DF. riginal on the contact es the luminosity low be made in interrupt c	glass ar er.
J074	7. Con Pree Adj Dese Adj Puu Use whe Pre Set 1. 2. Inte Wh Con Pre	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure am en scanning an origin thod ass the start key. The titing Change the setting Change the setting DEscription DF input light lumin Increasing the settin Press the start key. errupt copy mode ile this maintenance mpletion ass the stop/clear key	Scanning starts ress the stop/cle when scanning t light luminosi f the exposure le nount differs sign hal from the DF. screen for exec using the cursor nosity in makes the lum The value is set item is being pe	under the sele ear key. g stops. The so ity amp for scann hificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher t	ected conditions ereen for selecting originals een when sca yed. s. <b>1</b> r, and decreating ng from an o	ecting a mai from the op anning an o al setting asing it make	ntional DF. riginal on the contact es the luminosity low be made in interrupt c	glass ar er.
J074	7. Con Pree Adj Dese Adj Puu Use whe Pre Set 1. 2. Inte Wh Con Pre	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure am en scanning an origin thod ass the start key. The titing Change the setting Change the setting DEscription DF input light lumin Increasing the settin Press the start key. errupt copy mode ile this maintenance mpletion ass the stop/clear key	Scanning starts ress the stop/cle when scanning t light luminosi f the exposure le nount differs sign hal from the DF. screen for exec using the cursor nosity in makes the lum The value is set item is being pe	under the sele ear key. g stops. The so ity amp for scann hificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher t	ected conditions ereen for selecting originals een when sca yed. s. <b>1</b> r, and decreating ng from an o	ecting a mai from the op anning an o al setting asing it make	ntional DF. riginal on the contact es the luminosity low be made in interrupt c	glass ar er.
U074	7. Con Pree Adj Dese Adj Puu Use whe Pre Set 1. 2. Inte Wh Con Pre	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure am en scanning an origin thod ass the start key. The titing Change the setting Change the setting DEscription DF input light lumin Increasing the settin Press the start key. errupt copy mode ile this maintenance mpletion ass the stop/clear key	Scanning starts ress the stop/cle when scanning t light luminosi f the exposure le nount differs sign hal from the DF. screen for exec using the cursor nosity in makes the lum The value is set item is being pe	under the sele ear key. g stops. The so ity amp for scann hificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher t	ected conditions ereen for selecting originals een when sca yed. s. <b>1</b> r, and decreating ng from an o	ecting a mai from the op anning an o al setting asing it make	ntional DF. riginal on the contact es the luminosity low be made in interrupt c	glass ar er.
J074	7. Con Pree Adj Dese Adj Puu Use whe Pre Set 1. 2. Inte Wh Con Pre	To stop operation, p mpletion ass the stop/clear key justing the DF input scription usts the luminosity of rpose ed if the exposure am en scanning an origin thod ass the start key. The titing Change the setting Change the setting DEscription DF input light lumin Increasing the settin Press the start key. errupt copy mode ile this maintenance mpletion ass the stop/clear key	Scanning starts ress the stop/cle when scanning t light luminosi f the exposure le nount differs sign hal from the DF. screen for exec using the cursor nosity in makes the lum The value is set item is being pe	under the sele ear key. g stops. The so ity amp for scann hificantly betwe cuting is displa r up/down keys Setting rang 0 to 8 minosity higher t	ected conditions ereen for selecting originals een when sca yed. s. <b>1</b> r, and decreating ng from an o	ecting a mai from the op anning an o al setting asing it make	ntional DF. riginal on the contact es the luminosity low be made in interrupt c	glass ar er.

tenance m No.		De	escription			
087	Turning the DF scanning position adjust mode on/off					
	<b>Description</b> Turns on or off the DF scanning position adjust mode, in which the DF original scanning position is adjusted automatically by determining the presence or absence of dust on the slit glass. Also changes the reference data for identifying dust.					
	Reference In the DF original scanning position the scan data of the original trai	ling edge and that	t taken after the c	ence of dust is determined by compar riginal is conveyed past the DF origi on is adjusted for the following origina		
	Purpose		0.1	the original scanning position on the		
	Method 1. Press the start key. The scree 2. Select the item to be set and					
	Display	Description	on			
	ON/OFF DATA	•	e mode on/off e reference data fo	or identifying dust		
	Setting the mode on/off 1. Select ON or OFF. The select	ted item is display	ved in reverse.			
	Display	Description	on			
	ON DF OFF DF		position adjust mo position adjust mo			
	Initial setting: ON 2. Press the start key. The setti	na is set. The scre	en for selecting a	n item is displayed.		
	Setting the reference data for i Available only when the mode is 1.Change the setting using the c	turned on.	′S.			
	Description		Setting range	Initial setting		
	Minimum density to be rega	rded as dust	10 to 95	35		
	<ul> <li>Example The figure indicates the density in 256 levels of gray (0: white, 255: black). When the setting is 35, data of the level of 35 or higher is regarded as dust and data of lower level is regarded as the background (scar data taken when there is no original). </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul> <b>Completion</b> Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is					
	displayed.					

laintenance item No.	Description					
U088	Setting the input filter (moiré reduction mode)					
	Description					
		on and off by switching the input	filter on and off.			
	Purpose	ity upovopposo (moirá) on holfto	no imago groop of the convintage in text me			
			ne image areas of the copy image in text mo when an enlargement or reduction copy is ma			
	and text and photo mode. Such moiré is more likely to appear when an enlargement or reduction copy is made in text mode from an original containing large halftone image areas.					
	<b>Method</b> Press the start key. The scree	en for selecting an item is display	ved.			
	Setting	elected item is displayed in rever	20			
	Display	Description	56.			
	ON OFF	Moiré reduction mode	9			
	Initial setting: OFF	Normal copy mode				
	If moiré on the copy imag mode is turned on, the res	solution may be slightly reduced.	ing to ON. Note that when the moiré reducti ting a maintenance item No. is displayed.			
	Completion	n without changing the current s	etting, press the stop/clear key. The screen			
U089						
0009	Outputting a MIP-PG pattern	n				
	Description					
	Selects and outputs the MIP-I Purpose		d to check the machine status apart from that			
	Selects and outputs the MIP-I Purpose When performing respective i	image printing adjustments, used ned output MIP-PG pattern.				
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scann Method 1. Press the start key.	image printing adjustments, used ned output MIP-PG pattern.				
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scann Method 1. Press the start key. 2. Select the MIP-PG pattern	image printing adjustments, used ned output MIP-PG pattern. n to be output.	d to check the machine status apart from that			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scann Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level	d to check the machine status apart from that			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scann Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level	d to check the machine status apart from that           Adjusting range           –			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scann Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level	d to check the machine status apart from that           Adjusting range           –			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scann Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode.	d to check the machine status apart from that           Adjusting range           –			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode.	d to check the machine status apart from that           Adjusting range           –			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			
	Selects and outputs the MIP-I Purpose When performing respective i the scanner with a non-scanner Method 1. Press the start key. 2. Select the MIP-PG pattern Display GRAYSCALE MONO-LEVEL 256-LEVEL 1dot-LINE 3. Press the interrupt key to 4. Press the start key. A MIP Completion	image printing adjustments, used ned output MIP-PG pattern. In to be output. Description Gray scale Mono level 256 level 1 dot level set the pattern output mode. P-PG pattern is output.	d to check the machine status apart from that          Adjusting range         -         0 to 255         -         -			

Description						
Checking shading Description						
Performs scanning under the same conditions as before and after shading is performed, displaying the original scanning values at nine points of the contact glass.						
<b>Purpose</b> To check the change in original scanning values before and after shading. The results may be used to decid the causes for fixing unevenness (uneven density) of the gray area of an image: either due to optical (shading or CCD) or other problems						
or CCD) or other problems. Also to check the causes for a white or black line appearing longitudinally.						
<ul><li>Method</li><li>1. Press the start key. The screen for selecting an item is displayed.</li><li>2. Select the item to be operated. The selected item is displayed in reverse.</li></ul>						
Display     Description						
SHD BEFOREPerforms scanning before shading and displays the result.SHD AFTERPerforms scanning after shading and displays the result.						
<ul> <li>3. Press the start key. Scanning is performed under the selected conditions and the result is displayed. When scanning is performed before shading, the scan value at the machine center should be slight different from those at the machine front and rear. When scanning is performed after shading, there should be no difference between respective values. Any differences between the values at machine front and rear indicates that scanner problem causes the fixing unevenness. If the displayed results indicate no shading problems, the fixing unevenness (uneven copy density) is caused by factors other than in the scanner section (shading or CCD). If a black line appears, the cause may assumed to be based on the results of the scanning operation befor shading: if a white line appears, they may be assumed based on the results of the scanning operation befor shading. Note that depending on the thickness and location of the black or white line, it may not be possible to use this method to determine the cause. This is because the displayed values obtained from scanning at the limit of nine points are insufficient to provide significant information.</li> <li>20 mm from the machine left 1 2 3 400 mm from the machine left 9 6 6</li> <li>400 mm from the machine left 7 8 9</li> <li>100 mm from the machine left 7 8 9</li> <li>100 mm from the machine left 7 8 9</li> <li>100 mm from the machine left 7 8 9</li> <li>100 mm from the machine left 7 8 9</li> <li>100 mm from the machine left 7 8 9</li> </ul>						
<ul> <li>4. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The screen for entering a maintenance item i displayed.</li> </ul>						

Vaintenance item No.		Description				
U092	Adjusting the scanner automat	tically				
	Description					
	Makes auto scanner adjustments in the order below using the specified original.					
	Adjusting the scanner center lin					
	<ul> <li>Adjusting the scanner leading e</li> <li>Adjusting scanner magnification</li> </ul>					
		performed, the settings in U065, U066 and U067 are also changed.				
	Purpose Used to make respective auto adjustments for the scanner.					
	Method					
		P/N: 2A068020) on the contact glass.				
	2. Press the start key. The scree	en for executing is displayed.				
		adjustment starts. When adjustment is complete, each adjusted value is				
	displayed.					
	Display	Description				
	SCAN CENTER	Scanner center line				
	SCAN TIMING	Scanner leading edge registration				
	SUB SCAN	Scanner magnification in the auxiliary scanning direction				
	operation stops. Should this h	uto adjustment, DATA: XX (XX is replaced by an error code) is displayed and happen, determine the details of the problem and either repeat the procedure st the remaining items manually by running the corresponding maintenance				

Maintenance item No.	Description						
U093	Setting the exposure density gradient						
	<b>Description</b> Changes the exposure density gradient in manual density mode, depending on respective image modes (text text and photo, photo, text in fax mode, photo in fax mode).						
	<b>Purpose</b> To set how the image density is altered make copy image darker or lighter.	ed by a change of one	step in the manual de	nsity adjustment. Also used t			
	<ul> <li>Start</li> <li>1. Press the start key. The screen for selecting an item is displayed.</li> <li>2. Select the image mode to be adjusted and press the start key. The screen for the selected displayed.</li> </ul>						
	Display	Description					
	MIXED TEXT PHOTO FAX TEXT FAX PHOTO	Density in text and photo mode Density in text mode Density in photo mode Density in the text in fax mode Density in the photo in fax mode					
	Setting 1. Select the item to be adjusted. T	he selected item is di	splayed in reverse.				
	Display	Description					
	DARKER LIGHTER		y when manual densit y when manual densit				
	2. Adjust the setting using the curse	or up/down keys.					
	Display		Setting range	Initial setting			
	MIXED DARKER/MIXED LIGH TEXT DARKER/TEXT LIGHTEI PHOTO DARKER/PHOTO LIGI FAX TEXT DARKER/FAX TEXT FAX PHOTO DARKER/FAX PH	R HTER <sup>-</sup> LIGHTER	0 to 3/0 to 3 0 to 3/0 to 3 0 to 3/0 to 3 0 to 4/0 to 9 0 to 6/0 to 6	0/0 0/0 0/0 2/2 3/3			
	Increasing the setting makes the	change in density lar	ger, and decreasing it	t makes the change smaller.			
	Image density Dark A Set to	/ Setti	ing: 3 Setting: 0				
		Set to I	DARKER				
	Light		→ Density ad	liustment			
	Light	Center	Dark	justment			
	Figure 1-4-5 Exposure density gradient						
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>						
	Interrupt copy mode While this maintenance item is being performed, copying from an original can be made in interrupt copy mode Completion Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No.						
	displayed.						

nce ).			Description				
C	hecking and settir	ng the original size	detection sensor				
	Description						
	Checks the operation of the original size detection sensor and sets the sensing threshold value.						
	urpose	· · · · ·					
			sor and size judgement time	if the original s	size detection se		
	malfunctions frequently due to incident light or the like. Start						
	1. Press the start key. The screen for selecting an item is displayed.						
			y. The screen for executing ea	ach item is display	yed.		
	Display	C	Description				
	DATA	C	Displaying detection sensor tra	ansmission data			
	B/W LEVEL	S	Setting detection sensor thres	hold value			
		S	Setting original size judgment	time			
М	ethod to display t	he data for the sens	sor				
			nsor transmission data is disp	layed.			
		Rear of m	nachine <u>: 123 123 1</u> 2	23			
		Center of m	nachine: 123 123 12	23			
		Front of m	nachine: 255 255 25	55			
S	etting	-	Figure 1-4-6	еу.			
S	etting 1. Select an item to	be set.	-	-			
S	etting 1. Select an item to Display	be set. Description	an item, press the stop/clear k	Setting range	Initial setting		
S	etting 1. Select an item to Display LEVEL	be set. Description Detection sensor	an item, press the stop/clear k	Setting range 0 to 255	170		
S	etting 1. Select an item to Display	be set.  Description  Detection sensor  Original size judg	an item, press the stop/clear ke r threshold value gment time*	Setting range			
S	etting 1. Select an item to Display LEVEL WAIT TIME	be set.  Description  Detection sensor  Original size judg	an item, press the stop/clear ke r threshold value gment time* ection position display (mm)	<b>Setting range</b> 0 to 255 0 to 100	170		
S	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE	be set.  Description  Detection sensor  Original size judg  Original size dete  Detected original	an item, press the stop/clear ke r threshold value gment time* ection position display (mm)	<b>Setting range</b> 0 to 255 0 to 100 0 to 350 0 to 63	170 50  -		
S	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from active	be set.  Description  Detection sensor  Original size judg  Original size dete  Detected original	an item, press the stop/clear ke r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or	<b>Setting range</b> 0 to 255 0 to 100 0 to 350 0 to 63	170 50  -		
S	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from active lethod to set the de 1. Adjust the preset	be set.	an item, press the stop/clear ke r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to on <b>value</b> sor up/down keys.	<b>Setting range</b> 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm	170 50  -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from active lethod to set the de 1. Adjust the preset * A larger value in	be set.	an item, press the stop/clear ke r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b>	<b>Setting range</b> 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm	170 50  -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from active tethod to set the de 1. Adjust the preset * A larger value in 2. Press the start ke	be set.	an item, press the stop/clear ke r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it.	170 50  -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. tethod to set the de 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s	be set.	an item, press the stop/clear ke r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it.	170 50  -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. tethod to set the de 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o	be set.	r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it.	170 50  -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. tethod to set the da 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the ou 1. Adjust the preset * A larger value in	be set.	r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 - -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. tethod to set the de 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the ou 1. Adjust the preset * A larger value in 2. Press the start ke	be set.	an item, press the stop/clear key r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to on <b>value</b> sor up/down keys. sensitivity, and a smaller value an item, press the stop/clear key <b>nt time</b> sor up/down keys. I size judgment time, and a sn	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 - -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. lethod to set the de 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the of 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s between the start ke 3. To return to the s	be set.	an item, press the stop/clear ke gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu an item, press the stop/clear ke int time sor up/down keys.	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 - -		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. lethod to set the di 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s ompletion	be set.	an item, press the stop/clear key r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu an item, press the stop/clear key <b>int time</b> sor up/down keys. I size judgment time, and a sman item, press the stop/clear key	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 – – ent		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. lethod to set the di 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s ompletion	be set.	an item, press the stop/clear key r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to on <b>value</b> sor up/down keys. sensitivity, and a smaller value an item, press the stop/clear key <b>nt time</b> sor up/down keys. I size judgment time, and a sn	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 – – ent		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. lethod to set the di 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s ompletion	be set.	an item, press the stop/clear key r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu an item, press the stop/clear key <b>int time</b> sor up/down keys. I size judgment time, and a sman item, press the stop/clear key	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 – – ent		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. lethod to set the di 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s ompletion	be set.	an item, press the stop/clear key r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or <b>value</b> sor up/down keys. sensitivity, and a smaller valu an item, press the stop/clear key <b>int time</b> sor up/down keys. I size judgment time, and a sman item, press the stop/clear key	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 – – ent		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. lethod to set the di 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s ompletion	be set.	an item, press the stop/clear ke r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or value sor up/down keys. sensitivity, and a smaller valu an item, press the stop/clear ke nt time sor up/down keys. I size judgment time, and a sman an item, press the stop/clear ke	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 – – ent		
M	etting 1. Select an item to Display LEVEL WAIT TIME ORIG. AREA SIZE * Time from activ. lethod to set the di 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s lethod to set the o 1. Adjust the preset * A larger value in 2. Press the start ke 3. To return to the s ompletion	be set.	an item, press the stop/clear ke r threshold value gment time* ection position display (mm) I size display detection switch (ODSW) to or value sor up/down keys. sensitivity, and a smaller valu an item, press the stop/clear ke nt time sor up/down keys. I size judgment time, and a sman an item, press the stop/clear ke	Setting range 0 to 255 0 to 100 0 to 350 0 to 63 riginal size judgm e decreases it. ey.	170 50 – – ent		

item No.	Description							
U100	Checking the operation of main high voltage							
	Description							
	Performs main chargi	ing.						
	Purpose							
	To check main chargi	ng.						
	Start							
	Press the start key. T	he screen for selecting an item is displayed.			1			
	Display Description							
	MC ON ON TIME(SEC)	Turning the main charger on Turning the main charger on and the	laser scanner unit	on and off				
		be operated. ey. The selected operation starts. h, press the stop/clear key.			1			
	Completion							
	Press the stop/clear I	key at the screen for selecting an item when m nce item No. is displayed.	ain charger output	stops. The scree	en			
U101	Setting high voltage							
	Description							
	•	ing bias voltage and transfer voltage by changin	g the developing bi	as control voltage	e a			
	transfer control voltag			C				
	Purpose							
		ing bias and the transfer voltage or to take me	asures against dro	p of image dens	ity			
	background fog.							
	Method	he screen for selecting an item is displayed.						
	<ul><li>Setting</li><li>1. Select the item to be set. The selected item is displayed in reverse.</li><li>2. Change the setting using the cursor up/down keys.</li></ul>							
	1. Select the item to		se.					
	1. Select the item to		se. Setting range	Initial setting	]			
	<ol> <li>Select the item to</li> <li>Change the setting</li> </ol>	ng using the cursor up/down keys.		Initial setting	-			
	<ol> <li>Select the item to</li> <li>Change the settin</li> <li>Display</li> </ol>	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty	Setting range	_	-			
	1. Select the item to 2. Change the settin Display DEV BIAS	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing bias AC component duty at image formation         Developing shift bias potential	Setting range -255 to 255	0				
	1. Select the item to 2. Change the settin Display DEV BIAS DEV DUTY	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation	Setting range           -255 to 255           -100 to 100	0				
	1. Select the item to 2. Change the settin Display DEV BIAS DEV DUTY DEV SBIAS TC DATA Increasing the DE Increasing the DE Increasing the DE Increasing the DE Increasing the DE Increasing the DE	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV SBIAS setting makes the image darker; decree         EV DUTY setting makes the image lighter; decree         EV DATA setting makes the transfer voltage high	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the	0 0 120 image darker. image darker. e image lighter.	llta			
	Select the item to     Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the TC     lower.     S. Press the start ke Interrupt copy mode	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DITY setting makes the image lighter; decree         EV The value is set.	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the	0 0 120 image darker. e image lighter. j it makes the vo				
	Select the item to     Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     S. Press the start ke     Interrupt copy mode While this maintenance	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV DATA setting makes the transfer voltage high         ey. The value is set.	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the	0 0 120 image darker. e image lighter. j it makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV SBIAS setting makes the image lighter; decree         EV SBIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV SBIAS setting makes         EV SBIAS setting<	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DITY setting makes the image lighter; decree         EV The value is set.	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV SBIAS setting makes the image lighter; decree         EV SBIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV SBIAS setting makes         EV SBIAS setting<	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV SBIAS setting makes the image lighter; decree         EV SBIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV SBIAS setting makes         EV SBIAS setting<	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV SBIAS setting makes the image lighter; decree         EV SBIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV SBIAS setting makes         EV SBIAS setting<	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV SBIAS setting makes the image lighter; decree         EV SBIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV SBIAS setting makes         EV SBIAS setting<	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV SBIAS setting makes the image lighter; decree         EV SBIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV SBIAS setting makes         EV SBIAS setting<	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				
	1. Select the item to     2. Change the settin     Display     DEV BIAS     DEV DUTY     DEV SBIAS     TC DATA     Increasing the DE     Increasing the DE     Increasing the DE     Increasing the TC     lower.     3. Press the start ke     Interrupt copy mode While this maintenance     Completion	Description         Developing bias AC component frequency at image formation         Developing bias AC component duty at image formation         Developing shift bias potential at image formation         Transfer control voltage         EV BIAS setting makes the image lighter; decree         EV DUTY setting makes the image darker; decree         EV SBIAS setting makes the image lighter; decree         EV SBIAS setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV DUTY setting makes the image lighter; decree         EV SBIAS setting makes         EV SBIAS setting<	Setting range -255 to 255 -100 to 100 -1 to 1 0 to 255 asing it makes the easing it makes the reasing it makes the reasing it makes the reasing it makes the part of the	0 0 120 image darker. image darker. e image darker. i makes the vo				

			Description					
U109	Drum type display							
	<b>Description</b> Displays the drum s	urface potential set as EE	PROM of the drum ur	iit.				
	Purpose To check the drum surface potential.							
	Method							
	Press the start key. * Drum surface potential (V) is displayed.							
	<b>Completion</b> Press the stop/clear	r key. The screen for selec	ting a maintenance ite	em No. is displayed	l.			
U110	Checking/clearing	the drum count						
		counts for checking, clear charger potential output.	ing or changing the fig	gure, which is used	d as a reference whe			
		status. Also used to clear t s cleared before shipping,	•	• •	regular maintenance			
	Method	The drum counter count is		J. J				
	<b>Clearing</b> 1. Press the reset 2. Press the start b		nd the screen for sele	cting a maintenanc	e item No. is displave			
	<ol> <li>Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.</li> <li>Setting         <ol> <li>Enter a six-digit count using the numeric keys.</li> <li>Press the start key. The count is set, and the screen for selecting a maintenance item No. is displayed.</li> </ol> </li> </ol>							
	Completion	nce mode without changir		-				
U112	Setting toner refre							
	Description	sh operation time and the	developing bias on tin	ne at power on and	after copying.			
	<b>Purpose</b> To change the drum refresh operation time and the developing bias on time at power on and after copying if image flow level is low.							
	Method Press the start key. The screen for executing is displayed.							
		to be set. The selected ite ing using the cursor up/dc		rse.				
	1. Select the item			rse. Setting range	Initial setting			
	<ol> <li>Select the item</li> <li>Change the set</li> </ol>	ing using the cursor up/dc Description ) Toner refresh opera	own keys. ation time		120			
	1. Select the item 2. Change the sett Display ON TIME(SEC BIAS TIME(MS	ing using the cursor up/do Description ) Toner refresh opera BEC) Developing bias or	own keys. ation time	Setting range 50 to 150 (sec)	120			
	1. Select the item 2. Change the sett Display ON TIME(SEC BIAS TIME(MS 3. Press the start Completion	ing using the cursor up/dc Description ) Toner refresh opera	own keys. ation time n time	<b>Setting range</b> 50 to 150 (sec) 500 to 1000 (msec	120 c) 700			
	1. Select the item 2. Change the sett Display ON TIME(SEC BIAS TIME(MS 3. Press the start Completion	ing using the cursor up/do Description Toner refresh operation SEC) Developing bias or key. The value is set.	own keys. ation time n time	<b>Setting range</b> 50 to 150 (sec) 500 to 1000 (msec	120 c) 700			
	1. Select the item 2. Change the sett Display ON TIME(SEC BIAS TIME(MS 3. Press the start Completion	ing using the cursor up/do Description Toner refresh operation SEC) Developing bias or key. The value is set.	own keys. ation time n time	<b>Setting range</b> 50 to 150 (sec) 500 to 1000 (msec	120 c) 700			
	1. Select the item 2. Change the sett Display ON TIME(SEC BIAS TIME(MS 3. Press the start Completion	ing using the cursor up/do Description Toner refresh operation SEC) Developing bias or key. The value is set.	own keys. ation time n time	<b>Setting range</b> 50 to 150 (sec) 500 to 1000 (msec	120 c) 700			

Maintenance item No.		Description				
U113	Performing drum refresh operation					
	<b>Description</b> Executes drum refresh operation.					
	<b>Purpose</b> To operate when image flow occurs.					
	<ul> <li>Method</li> <li>1. Press the start key. The screen for executing is displayed.</li> <li>2. Press the start key. Drum refresh operation starts. (approximately 3 minutes)</li> <li>3. To stop the operation, press the stop/clear key.</li> </ul>					
	<b>Completion</b> Press the stop/clear key when the op displayed.	peration stops. The screen for selecting a maintenance item No. is				
U130	Initial setting for the developer					
		to a certain level from the toner container that has been installed.				
	Purpose To operate when installing the machine	or replacing the developing unit.				
	<ul><li>Method</li><li>1. Press the start key. The screen for</li><li>2. Press the start key. The time that ela the developing unit (0: No, 1: Yes) a</li></ul>	apses until initialization is complete and whether or not toner remains in				
	<ul> <li>Clearing the developing drive time (U</li> <li>Clearing the developing count (U158)</li> </ul>					
	Resetting the toner feed start level an	d toner empty detection				
	<b>Completion</b> Press the stop/clear key after initial se displayed.	tting is complete. The screen for selecting a maintenance item No. is				
U144	Setting toner loading operation					
	Description Sets toner loading operation after comp	pletion of copying.				
	<b>Purpose</b> To set whether or not toner is loaded or from the initial setting.	the drum after low density copying. Normally no change is necessary				
	Method					
	1. Press the start key. The screen for					
	2. Select the item. The selected item i					
	Display	Description				
	MODE0 MODE1 MODE2	Toner not loaded Toner not loaded Toner loaded				
	Initial setting: MODE2 3. Press the start key. The value is set. Completion					
		r selecting a maintenance item No. is displayed.				
		1-4-27				

laintenance item No.	Description						
U150	Checking sensors and switches for toner						
	Description						
	Displays the on-off status of each sensor or switch related to toner.						
	Purpose						
	To check if the sensors and switches operate correctly.						
	Method						
	1. Press the start key. A list of the switches, the on-off status of which can be checked, are displayed.						
	<ol> <li>Turn each switch on and off manually to check the status.</li> <li>When the on-status of a switch is detected, that switch is displayed in reverse.</li> </ol>						
	DEVELOPER SENSOR Toner sensor (TNS)						
	CONTAINER SET Toner container detection switch (TCDSW)						
	CONTAINER SENSOR     Toner container sensor (TCS)       DISPOSAL TANK SET     Toner disposal tank detection switch (TDDSW)						
	DISPOSAL TANK SENSOR Overflow sensor (OFS)						
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.						
U157	Checking/clearing the developing drive time						
0107	Description						
	Displays the developing drive time for checking, clearing or changing a figure, which is used as a reference						
	when correcting the toner control. It is automatically cleared when U130 is executed.						
	Purpose						
	To check the developing drive time after replacing the developing unit.						
	Method						
	Press the start key. The developing drive time is displayed in minutes.						
	Clearing						
	1. Press the reset key.						
	2. Press the start key. The time is cleared, and the screen for selecting a maintenance item No. is displayed						
	Setting						
	1. Enter a five-digit drive time (in minutes) using the numeric keys.						
	2. Press the start key. The time is set, and the screen for selecting a maintenance item No. is displayed.						
	Completion						
	To exit this maintenance item without changing the time, press the stop/clear key. The screen for selecting a						
	maintenance item No. is displayed.						

Maintenance item No.				Description				
U158	Che	ecking/clearing the c	developing co	unt				
	<b>Description</b> Displays the developing count for checking, clearing or changing a figure, which is used as a reference when correcting the toner control. It is automatically cleared when U130 is executed.							
	Purpose To check the developing count after replacing the developing unit.							
	Method Press the start key. The developing count is displayed.							
	<ul> <li>Clearing</li> <li>1. Press the reset key.</li> <li>2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.</li> </ul>							
	Set	-			ng a maintenance			
	2.	-		neric keys. Ired, and the screen for selecti	ng a maintenance	item No. is displaye		
	To e	<b>npletion</b> exit this maintenance ntenance item No. is		anging the count, press the st	op/clear key. The	screen for selecting		
U161		ting the fixing contro	ol temperature	9				
		scription anges the fixing contro	ol temperature.					
	Pur	pose	·					
		mally no change is n Ig problem on thick pa		ever, can be used to prevent	curling or creasing	g of paper, or solve		
		hod	apor.					
				electing an item is displayed.	a a la va d			
	2.	Display	set. The scree	n for executing each item is di Description	splayed.			
		CONTROL TEMP		Sets the fixing control temper	-			
		CORRECT TEMP		Sets the fixing correct temperature.				
	1.	ting the fixing contro Select the item to be Change the setting u	set. The select	ing item is displayed in revers	е.			
		Display	Description		Setting range	Initial setting		
		CONT TEMP 1ST TEMP 2ND TEMP MH OFF TIME(S)	Primary stabil Secondary sta	erature during copying ization fixing temperature abilization fixing temperature xing heater M	100 to 200 (°C) 80 to 200 (°C) 100 to 200 (°C) 5 to 20	165 110 165 12		
	The respective temperatures are to be set such that 2ND TEMP ≥ 1ST TEMP. If fixing offset occurs due to excessive fixing temperature, you can increase the preset TIME(S) to increase the OFF time of fixing heater M to solve this problem. 3. Press the start key. The value is set.							

Maintenance item No.			Description						
U161	1.		mperature The selecting item is displayed in revers the cursor up/down keys.	е.					
		Display	Description	Setting range	Initial setting				
		COPY UP TEMP(L)	Fixing correct temperature	-30 to +30 (°C)	5				
		COPY UP TEMP(M)	for large size copying Fixing correct temperature for middle size copying	-30 to +30 (°C)	2				
		COPY UP TEMP(S)	Fixing correct temperature for small size copying	-30 to +30 (°C)	0				
		L/L UP TEMP	Fixing temperature increase amount at low temperature and low humidity	0 to +20 (°C)	5				
		H/H DOWN TEMP	Fixing temperature decrease amount at high temperature and high humidity	0 to +20 (°C)	5				
		DUP DOWN TEMP	Fixing temperature decrease amount for duplex copying	0 to +20 (°C)	5				
	Inte Whi Cor Pres	<b>npletion</b> ss the stop/clear key at the	alue is set. s being performed, copying from an origir e screen for selecting an item. The screer						
114.00		blayed.							
U162	Des	bilizing fixing forcibly scription	drive forcibly, regardless of fixing tempera	aturo					
	Pur	pose	ine before the fixing section reaches stab		ure.				
	<ul> <li>Method</li> <li>1. Press the start key. The screen for executing is displayed.</li> <li>2. Press the start key. The forced stabilization mode is entered, and stabilization operation stops regardless of fixing temperature. The screen for selecting a maintenance item No. is displayed. To exit the forced stabilization mode, turn the power off and on.</li> </ul>								
	Completion To exit this maintenance item without executing forced fixing stabilization, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.								
U163		setting the fixing problem							
		scription sets the detection of a ser	vice call code indicating a problem in the	fixing section.					
	To p		an abnormally high fixing temperature.						
	<ul><li>Method</li><li>1. Press the start key. The screen for executing is displayed.</li><li>2. Press CANCEL on the touch panel.</li></ul>								
	Cor	npletion	ixing problem data is initialized.	No is displayed					
	FI6	ss the stop/clear key. The	screen for selecting a maintenance item	i ivo. is uisplayed.					

laintenance item No.		Description				
U165	Checking/clearing fixing counts					
	<b>Description</b> Displays or clears fixing counts.					
	Purpose					
	To check fixing counts after replacing the fixing unit.					
	Method Press the start key. The fixing counts are displayed.					
	Clearing					
		ared, and the screen for selecting a maintenance item No. is displayed.				
	Setting 1. Enter a four-digit value using the nu 2. Press the start key. The value is set	meric keys. . The screen for selecting a maintenance item No. is displayed.				
	<b>Completion</b> To exit this maintenance item without of selecting a maintenance item No. is disp	changing the current value, press the stop/clear key. The screen for played.				
U196	Turning the fixing heater on					
	<b>Description</b> Turns the fixing heater M or S on.					
	<b>Purpose</b> To check fixing heaters turning on.					
	Method					
	<ol> <li>Press the start key. The screen for s</li> <li>Select the heater to be turned on. T</li> </ol>	selecting an item is displayed. he selected heater turns on for 3 s and then turns off.				
	Display	Description				
	MAIN SUB	Fixing heater M (FH-M) Fixing heater S (FH-S)				
	<b>Completion</b> Press the stop/clear key when fixing mot is displayed.	ors M and S are off. The screen for selecting the maintenance item No.				
U199	Checking the fixing temperature					
	Purpose To check the fixing temperature, the am Method	bient temperature and the absolute humidity. bient temperature and the absolute humidity. ure and ambient temperature are displayed in centigrade (°C) and the				
	absolute humidity is displayed in percen					
	Display	Description				
	FIX TEMP SURROUND TEMP HUMIDITY	Fixing temperature (°C) Ambient temperature (°C) Absolute humidity (%)				
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.					

Description
•
Turning all LEDs on
Description Turns all the LEDs on the operation panel on.
<b>Purpose</b> To check if all the LEDs on the operation panel light.
Method Press the start key. All the LEDs on the operation panel light. Press the stop/clear key or wait for 10 s. The LEDs turns off, and the screen for selecting a maintenance item No. is displayed.
Initializing the touch panel
<b>Description</b> Automatically correct the positions of the X- and Y-axes of the touch panel.
<b>Purpose</b> To automatically correct the display positions on the touch panel after it is replaced.
<b>Method</b> 1. Press the start key. The screen for executing is displayed, and the + key displayed at the upper left of the
<ul> <li>touch panel flashes.</li> <li>2. Press on the center of the + key. The + key on lower right flashes.</li> <li>3. Press the center of the flashing +. Initialization of the touch panel is complete, and the screen for selecting a maintenance item No. is displayed.</li> </ul>
<b>Completion</b> To exit this maintenance item without initializing, press the stop/clear key. The screen for selecting a maintenance mode No. is displayed.
Setting the KMAS host monitoring system
Description Initializes or operates the KMAS host monitoring system. This is an optional device which is currently supported only by Japanese specification machines, so no setting is necessary.

Descript Simulates Purpose To check Method 1. Press 2. Place	ion		Description						
Descript Simulates Purpose To check Method 1. Press 2. Place	ion	Operating DF separately							
Purpose To check Method 1. Press 2. Place	<b>Description</b> Simulates the original conveying operation separately in the optional DF.								
Method 1. Press 2. Place		eying operat							
1. Press 2. Place	the DF.								
2. Place	a tha atart kay Th	o ooroon for a	alacting on itom is display	od					
	e an original in the ct the item to be o	DF if running perated. The	selecting an item is display g this simulation with paper selected item is displayed ursor up/down keys.	r.					
Disp	-	Operation		Setting range	Initial setting				
ADF	-	With paper.	single-sided original	50 to 200 (%)	100				
RAD			double-sided original	50 to 200 (%)	100				
ADF	(NON-P)		per, single-sided original	50 to 200 (%)	100				
RAE	DF (NON-P)		per, double-sided original	50 to 200 (%)	100				
		(continuous	• •						
6. To sto	op continuous ope		tarts for the selected magn the stop/clear key.	ification.					
	e stop/clear key v	when the op	eration stops. The screen	for selecting a m	aintenance item No				
displayed		beence of a	key card or key counter						
Descript			key card of key counter						
		nce of the op	tional key card or key cour	iter.					
Purpose	•		lional hoy bara of hoy boar						
		em if a kev ca	rd or key counter is installe	ed.					
Method									
	e start kev. The sc	reen for seleo	cting an item is displayed						
Setting 1. Selec	-		installed using the curso	r up/down keys. T	he selected counter				
Disp			Description						
	-CARD		The key card is installed						
	-COUNTER		The key counter is installed	ed					
	s the start key. The	e setting is se	et and the screen for select	ting a maintenance	item No. is displayed				
	<b>Completion</b> To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.								
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				
2. Press Complet To exit th	nis maintenance it			g, press the stop/c	lear key. The screen				

laintenance item No.	Description					
U206						
	<b>Description</b> Sets the presence or absence of the optional coin vender. Also sets the as mode and unit price. This is an optional device which is currently supported only by Japane is necessary.					
U207	7 Checking the operation panel keys					
	DescriptionChecks operation of the operation panel keys.PurposeTo check operation of all the keys and LEDs on the operation panel.					
	3. As the keys lined up in the same line as the lit indicator are presse the figure shown on the touch panel increases in increments of 1. A and if there are any LEDs corresponding to the keys in the line on line will light.	<ol> <li>Press the start key. The screen for executing is displayed.</li> <li>"COUNT1" is displayed and the leftmost LED on the operation panel lights.</li> <li>As the keys lined up in the same line as the lit indicator are pressed in the order from the top to the bottom, the figure shown on the touch panel increases in increments of 1. When all the keys in that line are pressed and if there are any LEDs corresponding to the keys in the line on the immediate right, the top LED in that line will light.</li> <li>When all the keys on the operation panel have been pressed, all the LEDs light for up to 10 seconds.</li> </ol>				
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.					
U208	8 Setting the paper size for the large paper deck					
		<b>Description</b> Sets the size of paper used in the optional large paper deck. Note that the setting cannot be changed on inch-specification machines since the paper size for the large paper deck is fixed.				
		<b>Purpose</b> To change the setting when the size of paper used in the large paper deck is changed.				
	Method Press the start key. The screen for selecting an item is displayed.					
	<ul> <li>Setting</li> <li>1. Select the paper size (A4 or B5). The selected item is displayed i Initial setting: A4</li> <li>2. Press the start key. The setting is set.</li> </ul>	n reverse.				
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item	n No. is displayed.				
U211						
	Sets the optional DF type (STDF or SRDF). (For 25 cpm copier only)	Descrioption Sets the optional DF type (STDF or SRDF). (For 25 cpm copier only)				
	To set DF type when installing.					
	<b>Method</b> Press the start key. The screen for selecting an item is displayed.					
	Setting 1. Select DF type. The selected item is displayed in reverse.					
	Display Description					
	SADF Single-sided (STDF) SRADF Double-sided (SRDF)					
	2. Press the start key. The type is set.					
	<b>Completion</b> Press the stop/clear key. The screen for selectiong a maintenance ite	m No. is displayed.				

		Description					
U217	Setting 8 <sup>1</sup> /2" × 13" paper						
	<b>Description</b> Turn on the setting when using $8^{1}/_{2}$ " × 13" paper.						
	<b>Purpose</b> To change the setting as r	eeded.					
	Method						
	-	reen for selscting an item is displayed.					
	Setting 1. Select ON or OFF. The selected item is displayed in reverse.						
	Display	Description					
	ON OFF	$8^{1/2}$ " × 13" paper is used. $8^{1/2}$ " × 13" paper is not used.					
	2. Press the start key. Th	e value is set. The screen for selecting a maintenance item No. is displayed.					
	<b>Completion</b> To exit this maintenance is selecting a maintenance it	tem without changing the current setting, press the stop/clear key. The screen for em No. is displayed.					
U236	Setting the limit for the e	jection section of the built-in finisher					
	<b>Description</b> If the machine is equipped output to the machine inte	with an optional built-in finisher, this mode sets whether $A5/5^{1}/2 \times 8^{1}/2$ size paper is rnal tray or not.					
	<b>Purpose</b> If the machine is equipped with an optional built-in finisher and if paper jams occur due to curling of paper in the built-in ejection section when two-sided copying onto $A5/5^{1}/2 \times 8^{1}/2$ size paper is performed, this mode is used to change the setting to ON to disable ejection to the machine internal tray.						
	Method						
	Press the start key. The so	creen for executing is displayed.					
	Setting 1. Select ON or OFF. The selected item is displayed in reverse.						
	Display	Description					
	ON	Does not eject to the machine internal tray.					
	OFF	Eject to the machine internal tray.					
	OFF Initial setting: OFF						
		Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					
	Initial setting: OFF 2. Press the start key. Th Completion	Eject to the machine internal tray.					

Maintenance item No.		Description					
U237	Setting finisher stack quantity						
	Description	k on the main tray and on the intermediate tray in the optional finisher.					
	Purpose To change the setting when a stack malfunction has occurred.						
	<ul><li>Method</li><li>1. Press the start key. The screen for selecting an item is displayed.</li><li>2. Select the item to be set. The selected item is displayed in reverse.</li></ul>						
	Display	Description					
	MAIN TRAY MIDDLE TRAY	Number of sheets of stack on the main tray Number of sheets of stack on the intermediate tray for sort copying or staple copying					
	Setting the number of sheets of stac 1. Change the setting using the curso						
	Setting	Description					
	0	3000-sheet finisher: 3000 sheets, built-in finisher: 500 sheets 3000-sheet finisher: 1500 sheets, built-in finisher: 250 sheets					
	Initial setting: 0 2. Press the start key. The setting is s	et.					
	Setting the number of sheets of stac 1. Change the setting using the curso	k on the intermediate tray for sort copying or staple copying r up/down keys.					
	Setting	Description					
	0 1	For sort copying: 30 sheets, for staple copying: 50 sheets For sort copying: 30 sheets, for staple copying: 30 sheets					
	Completion Press the stop/clear key. The screen fo	r selectiong a maintenance item No. is displayed.					

This page is intentionally left blank.

	Description						
243	Checking the	e operation of the DF m	notors, solenoids and clutch				
	Description						
	Turns the motors, solenoids or clutch in the optional DF on.						
	Purpose	energian of the DE mot					
	Method	operation of the DF moto	ors, solenoids and clutch .				
	1. Press the		r selecting an item is displayed. e selected item is displayed in reve	erse and the operation starts			
	Display		noids and clutch	Operation In operation			
	F MOT		motor (OFM)	In operation			
	C MOT		er conveying motor (OCM)	On for 0.5 s			
	FD CL EJ SL		clutch (OFCL)	On for 0.5 s On for 0.5 s			
	RJ SL		ft solenoid (EFSSOL) eedshift solenoid (SBFSSOL)	On for 0.5 s			
	FD SL		solenoid (OFSOL)	On and off			
	RP SL		pressure solenoid (SBPSOL)	On and off			
	3. To turn ea	ach motor off, press the s	stop/clear key.				
	Completion						
	•	o/clear key when operati	on stops. The screen for selecting a	a maintenance item No. is display			
244	Checking the	e DF switches					
	Description						
	Displays the s	status of the respective s	witches in the optional DF.				
	Purpose						
	To check if respective switches in the optional DF operate correctly.						
	Start						
			selecting an item is displayed. VR) to be checked. The screen for executing each item is displayed				
				r exceduling each iterin is displaye			
	Display		Type of switches				
	SW		Type of switchesOn/off switches				
			Type of switches				
	SW VR Method for ti	ne on/off switches	Type of switchesOn/off switchesVolume switch				
	SW VR Method for ti 1. Turn the r	espective switches on a	Type of switches         On/off switches         Volume switch         nd off manually to check the status.				
	SW VR Method for tl 1. Turn the r If the on-s	espective switches on a	Type of switches         On/off switches         Volume switch         nd off manually to check the status.         cted, the corresponding switch is di				
	SW VR Method for ti 1. Turn the r If the on-s Display	espective switches on a status of a switch is dete	Type of switches         On/off switches         Volume switch         nd off manually to check the status.         cted, the corresponding switch is di         Switches				
	SW VR Method for ti 1. Turn the r If the on-s Display SET SW	espective switches on a status of a switch is dete	Type of switches         On/off switches         Volume switch         and off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)				
	SW VR Method for ti 1. Turn the r If the on-s Display SET SW FEED S	espective switches on a status of a switch is dete	Type of switches         On/off switches         Volume switch         and off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)	splayed in reverse.			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW	espective switches on a status of a switch is dete	Type of switches         On/off switches         Volume switch         and off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE	splayed in reverse.			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW	espective switches on a status of a switch is dete	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)	splayed in reverse.			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			
	SW VR Method for tl 1. Turn the r If the on-s Display SET SW FEED SV REV SW TMG SW SZ A SW	espective switches on a status of a switch is dete W	Type of switches         On/off switches         Volume switch         Ind off manually to check the status.         cted, the corresponding switch is di         Switches         Original set switch (OSSW)         Original feed switch (OFSW)         Original switchback switch (OSE         DF timing switch (DFTSW)         Original size length switch (OSL	splayed in reverse. 3SW) SW)			

Maintenance item No.		Description	
U244	Method for the volume switch 1. Move the original insertion guides to c The detected original width is displaye		
	Numerical value	Original width to b	e detected
	000 :: 49.664 ::	A5R	51/2" × 81/2" 
	50.176  61.440  61.952  103.936  104.448	B5R	
	: 139.264 : 139.776 :	Folio/A4R	
	146.432 :: 146.994 :: 197.120	B4/B5	-
	197.632 197.720	CF (11" × 15")	$\begin{array}{l} 11" \times 17" / \\ 11" \times 15" / \\ 11" \times 8^{1} / 2" \end{array}$
	223.232 : 256	A3/A4	_

For example, if any value between 105 and 139 is displayed when the original insertion guides are adjusted for A4R paper, it indicates that the original width is detected correctly.

2. To return to the screen for selecting an item, press the stop/clear key.

#### Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

em No.	Description							
J245	Checking mes	sages						
	Description		h nanal af			al		
	Displays a list of messages on the touch panel of the operation panel.							
	Purpose To check the messages to be displayed.							
	Method							
	<ol> <li>Press the start key.</li> <li>Select the item to be displayed.</li> </ol>							
	3. Change the screen using the cursor up/down keys to display each message one at a time.							
	When a message number is entered with the numeric keys and then the start key is pressed, the messag corresponding the specified number is displayed.							
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.							
J246	Setting the finisher							
1240	Description							
	Adjusts various items if the machine is equipped with an optional finisher.							
	3000-sheet finisher: Adjusts the amount of slack in the paper in punch mode.							
	Booklet stitcher: Adjusts the booklet stapling position for each paper size. Built-in finisher: Adjusts the side registration cursor stop position in the staple sort mode.							
	Purpose							
	Adjusts the amount of slack in the paper while in the punch section if, in punch mode, paper jams or is Z-folde							
	frequently due to too much slack in the paper, or, the position of punch holes varies due to too little slack in the							
-	paper. Adjusts the booklet stapling position in the stitching mode if the position is not proper.							
	To adjust when registration is not proper or staple position is shifted in the staple sort mode.							
	to adjust when	registration is not prope	or staple	position is a	snineu	in the staple sor	t mode.	
	Start					·	t mode.	
	Start 1. Press the st	art key. The screen for	selecting a	an item is dis	splaye	d.		
	Start 1. Press the st 2. Select the it		selecting a the start k	an item is dis key. The scre	splaye	d.		
	Start 1. Press the st 2. Select the it Display	art key. The screen for em to be set and press	selecting a the start k <b>Descrip</b> t	an item is dis key. The scre t <b>ion</b>	splaye een for	d. executing each i	item is displayed.	
	Start 1. Press the st 2. Select the it	art key. The screen for em to be set and press SHER	selecting a the start k Descript Adjustme	an item is dis key. The scre t <b>ion</b> ent of the an	splayed een for nount d	d. executing each i		
	Start 1. Press the st 2. Select the it Display 3000 FINIS	art key. The screen for em to be set and press GHER INISHER	selecting a the start k <b>Descrip</b> Adjustme Adjustme	an item is dis key. The scre t <b>ion</b> ent of the an	splayed een for nount d	d. executing each i of slack in the pa stapling position	item is displayed.	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE FINIS NNER FIN Setting the amounts	tart key. The screen for em to be set and press SHER INISHER IISHER Ount of slack in the pa	selecting a the start H <b>Descript</b> Adjustme Adjustme Side reg	an item is dis key. The scre tion ent of the an ent of the bo istration curs	splayed een for nount d	d. executing each i of slack in the pa stapling position	item is displayed.	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the	tart key. The screen for teem to be set and press SHER INISHER IISHER <b>ount of slack in the pa</b> setting using the curso	selecting a the start l Descript Adjustme Adjustme Side reg aper r up/down	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys.	splayed een for nount o ooklet s sor sto	d. executing each i of slack in the pa stapling position p position	item is displayed.	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE FINIS SADDLE FINIS Setting the am 1. Change the Description	tart key. The screen for em to be set and press SHER INISHER IISHER <b>ount of slack in the pa</b> setting using the curso	selecting a the start l Descript Adjustme Adjustme Side reg aper r up/down	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range	splayed een for nount o ooklet s sor sto	d. executing each i of slack in the pa stapling position	item is displayed.	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Descriptio Amount of	tart key. The screen for teem to be set and press SHER INISHER ISHER <b>ount of slack in the pa</b> setting using the curso on slack in the paper	selecting a the start I Adjustme Adjustme Side reg aper r up/down Setting -15 to +1	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5	splayed een for nount o ooklet s sor sto Initial 0	d. executing each i of slack in the pa stapling position p position	item is displayed. per in punch mode	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Description Amount of If the position If paper jam	tart key. The screen for teem to be set and press SHER INISHER JISHER ount of slack in the pa setting using the curso on slack in the paper on of punch holes varies is or is Z-folded frequen	selecting a the start I Adjustme Adjustme Side reg per r up/down Setting u -15 to +1 s, increase tly, decrea	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5 the setting t	splayed een for nount o ooklet s sor sto Initial 0 to mak	d. executing each i of slack in the pa stapling position p position setting	item is displayed. per in punch mode	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Description Amount of If the position If paper jam 2. Press the st	tart key. The screen for teem to be set and press SHER INISHER JISHER ount of slack in the pa setting using the curso on slack in the paper on of punch holes varies is or is Z-folded frequen tart key. The value is se	selecting a the start I Adjustme Adjustme Side reg side reg <b>aper</b> r up/down <b>Setting</b> -15 to +1 s, increase tly, decrea t.	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5 the setting to se the setting to	splayed een for nount o ooklet s sor sto Initial 0 to making to m	d. executing each i of slack in the pa stapling position p position setting	item is displayed. per in punch mode	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Description Amount of If the position If paper jam 2. Press the st 3. To return to	Aart key. The screen for term to be set and press SHER INISHER ISH	selecting a the start H Adjustme Adjustme Side reg aper r up/down Setting t -15 to +1 s, increase tly, decrea t. g an item, p	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5 the setting to se the setting to	splayed een for nount o ooklet s sor sto Initial 0 to making to m	d. executing each i of slack in the pa stapling position p position setting	item is displayed. per in punch mode	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Description Amount of If the position (If paper jam 2. Press the st 3. To return to Setting the boo	tart key. The screen for term to be set and press BHER INISHER ISHER Setting using the curso on slack in the paper on of punch holes varies is or is Z-folded frequen tart key. The value is se the screen for selecting oklet stapling position	selecting a the start H Adjustme Adjustme Side reg aper r up/down Setting -15 to +1 s, increase tly, decrea t. g an item, p	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5 the setting the se the setting press the sto	splayed een for nount o poklet s sor sto Initial 0 to make ng to m	d. executing each i of slack in the pa stapling position p position <b>setting</b> the the amount of nake the amount ar key.	item is displayed. per in punch mode	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Descriptio Amount of If the positic If paper jam 2. Press the st 3. To return to Setting the boo 1. Select the s	Aart key. The screen for term to be set and press SHER INISHER ISH	selecting a the start H Descripi Adjustme Side reg aper r up/down Setting -15 to +1 s, increase tly, decrea t, g an item, p ted item is	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5 the setting t se the setting press the sto displayed in	splayed een for nount o poklet s sor sto Initial 0 to make ng to m	d. executing each i of slack in the pa stapling position p position <b>setting</b> the the amount of nake the amount ar key.	item is displayed. per in punch mode	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Descriptio Amount of If the positic If paper jam 2. Press the st 3. To return to Setting the boo 1. Select the s	A art key. The screen for teem to be set and press BHER INISHER ISHER ISHER Setting using the curso on slack in the paper on of punch holes varies is or is Z-folded frequen tart key. The value is se the screen for selecting oklet stapling position ize to be set. The selec	selecting a the start H Descripi Adjustme Side reg aper r up/down Setting -15 to +1 s, increase tly, decrea t, g an item, p ted item is	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5 the setting t se the setting press the sto displayed in	splayed een for nount o ooklet s sor sto Initial 0 to mak ng to m op/clea	d. executing each i of slack in the pa stapling position p position <b>setting</b> the the amount of nake the amount ar key.	item is displayed. per in punch mode	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Descriptio Amount of If the positic If paper jam 2. Press the st 3. To return to Setting the boo 1. Select the s 2. Change the	Adjustment of booklet	selecting a the start I Descripi Adjustme Side reg side reg side reg side reg aper r up/down -15 to +1 s, increase tly, decrea t. g an item, p ted item is r up/down	an item is dis key. The scre tion ent of the an ent of the bo istration curs keys. range 5 the setting t se the settin press the sto displayed in keys.	splayed een for nount o ooklet s sor sto Initial 0 to mak ng to m op/clea n rever	d. executing each i of slack in the pa stapling position p position setting setting the the amount of thake the amount ar key. se.	item is displayed. per in punch mode slack larger. of slack smaller.	
	Start 1. Press the st 2. Select the it Display 3000 FINIS SADDLE F INNER FIN Setting the am 1. Change the Descriptio Amount of If the positic If paper jam 2. Press the st 3. To return to Setting the boo 1. Select the s 2. Change the Display	A set in the paper ount of slack in the paper ount of slack in the paper on of punch holes varies s or is Z-folded frequen tart key. The value is set the screen for selecting oklet stapling position ize to be set. The selec setting using the curso Description	selecting a the start I Adjustme Adjustme Side reg side reg aper r up/down Setting -15 to +1 s, increase tly, decrea t. g an item, p ted item is r up/down	an item is dis key. The screetion tion ent of the ament of the bo istration curs keys. range 5 the setting the setting press the setting coress the store displayed in keys. Setting ra	splayed een for nount o poklet s sor sto Initial 0 to mak ng to m op/clea n rever	d. executing each i of slack in the pa stapling position p position setting setting the the amount of take the amount of take the amount ar key. se. Initial setting	item is displayed. per in punch mode slack larger. of slack smaller.	

Maintenance item No.			
U246			
	Left stapling	Right stapling	Adjustment method
			Proper
	Upper side is longer.	Lower side is longer.	Decrease the preset value.
		Lower side is longer.	
	Lower side is longer.	Upper side is longer.	Increase the preset value.

- 3. Press the start key. The value is set.
- 4. To return to the screen for selecting an item, press the stop/clear key.

# Setting the side registration cursor stop position

- 1. Select the desired cursor position. The selected item is displayed in reverse.
- 2. Change the setting using the cursor up/down keys.

Display	Description	Setting range	Initial setting
FRONT	Front side registration cursor stop position	-4 to +4	0
REAR END	Rear side registration cursor stop position Trailing edge registration cursor stop position	-4 to +4 -4 to +4	0

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

4. To return to the screen for selecting an item, press the stop/clear key.

#### Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

	lo.	Description						
Turns on motors and clutches of optional large paper deck or paper feed desk.         Purpose         To check the operation of motors and clutches of paper feed device.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Select the device to be checked.         Display         Paper feed device         3000 DECK       Large paer deck         500 × 2 DECK       Paper feed desk         Method         1. Select the item to be operated. The selected item is displayed in reverse and operation starts.         Large paper deck       On for 5 s         B CL       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       On for 1 s         DESK MOT       Desk teed clutch (DFCL)       On for 1 s       On for 1 s         UP CL       Desk teed clutch (DFCL-U)       On for 1 s       On for 1 s         UP CL       De	-	Checking the operati	on of large paper	deck and paper feed desk				
Purpose         To check the operation of motors and clutches of paper feed device.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Select the device to be checked.         Display       Paper feed device         3000 DECK       Large paer deck         500 × 2 DECK       Paper feed desk         Method       1. Select the item to be operated. The selected item is displayed in reverse and operation starts.         Large paper deck       Display         Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       On for 1 s         DESK MOT       Desk feed clutch (DFCL)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s <td></td> <td colspan="7">Description</td>		Description						
To check the operation of motors and clutches of paper feed device.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Select the device to be checked.         Display         3000 DECK         500 × 2 DECK       Large paer deck         500 × 2 DECK       Paper feed desk         Method         1. Select the item to be operated. The selected item is displayed in reverse and operation starts.         Large paper deck       Display         Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       On for 1 s         UPP CL       Desk lever paper feed clutch (DFFCL-U)       On for 1 s       On for 1 s         UPP CL       Desk lever paper feed clutch (DFFCL-U)       On for 1 s       On for 1 s         UPP CL       Desk lever paper feed clutch (DFFCL-U)       On for 1 s <t< td=""><td>-</td><td colspan="7"></td></t<>	-							
Start         1. Press the start key. The screen for selecting an item is displayed.         2. Select the device to be checked.         Display         Paper feed device         3000 DECK       Large paer deck         500 × 2 DECK       Paper feed desk         Method       1. Select the item to be operated. The selected item is displayed in reverse and operation starts. Large paper deck         Display       Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PAPer feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 1 s       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 1 s       On for 1 s         UPP CL       Desk feed clutch (DFCL)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s		•						
1. Press the start key. The screen for selecting an item is displayed.         2. Select the device to be checked.         Display       Paper feed device         3000 DECK       Large paer deck         500 × 2 DECK       Paper feed desk         Method       1. Select the item to be operated. The selected item is displayed in reverse and operation starts.         Large paper deck       Display         Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       FEED CL         DEsk feed clutch (DFCL)       On for 1 s       On for 1 s       Display         UPP CL       Desk feed clutch (DFCL-U)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DFFCL-U)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DFFCL-U)       On for 1 s       On for 1 s         UPV CL       Desk lower paper feed clutch (DFFCL-U			of motors and clu	tches of paper feed device.				
Display       Paper feed device         3000 DECK       Large paer deck         500 × 2 DECK       Paper feed desk         Method       1. Select the item to be operated. The selected item is displayed in reverse and operation starts. Large paper deck         Display       Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       On for 1 s         DESK MOT       Desk feed clutch (DFCL)       On for 1 s       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion       Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item </td <td></td> <td colspan="7"></td>								
Display         Paper feed device           3000 DECK         Large paer deck           500 × 2 DECK         Paper feed desk           Method         1. Select the item to be operated. The selected item is displayed in reverse and operation starts. Large paper deck           Display         Motors and clutches         Operation           LCF MOT         Conveying motor (CM)         On for 5 s           B CL         Conveying clutch (CCL)         On for 1 s           PCL1         Paper feed clutch 1(PFCL1)         On for 1 s           PCL2         Paper feed clutch 2(PFCL2)         On for 1 s           Paper feed desk         Display         Motors and clutches         Operation           DESK MOT         Desk Drive motor (DDM)         On for 5 s         On for 1 s           DESK MOT         Desk feed clutch (DFCL)         On for 1 s         On for 1 s           UPP CL         Desk lower paper feed clutch (DPFCL-U)         On for 1 s         On for 1 s           LOW CL         Desk lower paper feed clutch (DPFCL-L)         On for 1 s         On for 1 s           LOW CL         Desk lower paper feed clutch (DPFCL-U)         On for 1 s         On for 1 s				selecting an item is displayed.				
3000 DECK 500 × 2 DECK       Large paer deck Paper feed desk         Method       1. Select the item to be operated. The selected item is displayed in reverse and operation starts. Large paper deck         Display       Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Operation         Display       Motors and clutches       Operation         Display       Motors and clutches       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       On for 1 s         DESK MOT       Desk teed clutch (DFCL)       On for 1 s       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion       Press the stop/cle				Paper feed device				
500 × 2 DECK       Paper feed desk         Method       1. Select the item to be operated. The selected item is displayed in reverse and operation starts. Large paper deck         Display       Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       S         FEED CL       Desk feed clutch (DFCL)       On for 1 s       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item				-				
Display       Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 5 s         Paper feed desk       Display       Motors and clutches         Display       Motors and clutches       Operation         PCL2       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Desk Drive motor (DDM)       On for 5 s       On for 1 s         UPP CL       Desk teed clutch (DFCL)       On for 1 s       On for 1 s         UWP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item								
Large paper deck       Motors and clutches       Operation         LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s       On for 1 s         DESK MOT       Desk feed clutch (DFCL)       On for 1 s       On for 1 s         UPP CL       Desk feed clutch (DFCL)       On for 1 s       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item		Method						
DisplayMotors and clutchesOperationLCF MOTConveying motor (CM)On for 5 sB CLConveying clutch (CCL)On for 1 sPCL1Paper feed clutch 1(PFCL1)On for 1 sPCL2Paper feed clutch 2(PFCL2)On for 1 sPaper feed deskDisplayMotors and clutchesDESK MOTDesk Drive motor (DDM)On for 5 sFEED CLDesk feed clutch (DFCL)On for 1 sUPP CLDesk keed clutch (DFCL)On for 1 sLOW CLDesk lower paper feed clutch (DPFCL-U)On for 1 s2. To return to the screen for selecting an item, press the stop/clear key.CompletionPress the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item		1. Select the item to I	be operated. The s	elected item is displayed in reve	erse and operation starts.			
LCF MOT       Conveying motor (CM)       On for 5 s         B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk         Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s         FEED CL       Desk feed clutch (DFCL)       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item								
B CL       Conveying clutch (CCL)       On for 1 s         PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk         Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 1 s         FEED CL       Desk feed clutch (DFCL)       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item		Display	Motors and	clutches	Operation			
PCL1       Paper feed clutch 1(PFCL1)       On for 1 s         PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s         FEED CL       Desk feed clutch (DFCL)       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item								
PCL2       Paper feed clutch 2(PFCL2)       On for 1 s         Paper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s         FEED CL       Desk feed clutch (DFCL)       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item								
Daper feed desk       Display       Motors and clutches       Operation         DESK MOT       Desk Drive motor (DDM)       On for 5 s         FEED CL       Desk feed clutch (DFCL)       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item								
Display         Motors and clutches         Operation           DESK MOT         Desk Drive motor (DDM)         On for 5 s           FEED CL         Desk feed clutch (DFCL)         On for 1 s           UPP CL         Desk lower paper feed clutch (DPFCL-U)         On for 1 s           LOW CL         Desk lower paper feed clutch (DPFCL-L)         On for 1 s           2. To return to the screen for selecting an item, press the stop/clear key.         Completion           Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item			i aper leed e					
DESK MOT       Desk Drive motor (DDM)       On for 5 s         FEED CL       Desk feed clutch (DFCL)       On for 1 s         UPP CL       Desk lower paper feed clutch (DPFCL-U)       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item		-	Motors and	clutches	Operation			
FEED CL       Desk feed clutch (DFCL)       On for 1 s         UPP CL       Desk upper paper feed clutch (DPFCL-U)       On for 1 s         LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item					-			
LOW CL       Desk lower paper feed clutch (DPFCL-L)       On for 1 s         2. To return to the screen for selecting an item, press the stop/clear key.       Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item.								
<ul> <li>2. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance ite</li> </ul>			Desk upper p					
<b>Completion</b> Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance ite		UPP CL Desk upper paper feed clutch (DPFCL-U) On for 1 s						
		2. To return to the sci	•	,				
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	F	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	F	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			
	I	2. To return to the sci Completion Press the stop/clear ke	reen for selecting a	in item, press the stop/clear key	l.			

This page is intentionally left blank.

item No.	Description					
U249	Checking the paper ejection to optional devices					
	Description					
	Ejects paper to an optional mailbox or job separator, or to the ejection slot at the machine left.					
	Purpose					
	To check paper conveying oper	ration to optional paper eject	devices or the ejection slot at the machine left.			
	Method					
	<ol> <li>Press the start key. The screen for selecting an item is displayed.</li> <li>Select the paper eject location.</li> </ol>					
	Display	Paper eject device	•			
	MAIL	BOX Mailbox				
	JOB SEPARATOR         Job separator           LEFT BIN OUTPUT         Ejection slot at the machine left (finisher not installed)					
		k, specify the mail tray number	r (1 to 7) to which paper is to be ejected by using to the mail trays in ascending order from mail tray			
	Interrupt copy mode	, ,				
		being performed, copying from	n an original can be made in interrupt copy mode			
	<b>Completion</b> Press the stop/clear key. The s	creen for selecting a mainter	ance item No. is displayed			
U250	Setting the maintenance cycl		ance item No. 15 displayed.			
0230	Description					
	Displays and changes the mair	ntenance cvcle.				
	Purpose					
	To check and change the main	tenance cycle.				
	Method					
	Press the start key. The current setting is displayed as follows:					
	Setting	t setting is displayed as follow	/s:			
	-		/s:			
	Setting		vs: Initial setting			
	Setting 1. Change the setting using the	ne numeric keys.				
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val	ne numeric keys.  Setting range 0 to 600000	Initial setting			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm)			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			
	Setting 1. Change the setting using th Description Maintenance cycle 2. Press the start key. The val Completion To exit this maintenance item val	Setting range         0 to 600000         ue is set, and the screen for         without changing the current	Initial setting 500000 (35/40 cpm) 400000 (25 cpm) selecting a maintenance item No. is displayed.			

Maintenance item No.		Description						
U251	Checking/clearing the maintenance	count						
	<b>Description</b> Displays, clears and changes the maintenance count.							
	<b>Purpose</b> To check the maintenance count. Also to clear the count during maintenance service.							
	Method Press the start key. The maintenance count is displayed.							
	<ul> <li>Clearing</li> <li>1. Press the reset key.</li> <li>2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed</li> </ul>							
	<ul><li>Setting</li><li>1. Enter a six-digit count using the numeric keys.</li><li>2. Press the start key. The count is set, and the screen for selecting a maintenance item No</li></ul>							
	<b>Completion</b> To exit this maintenance item without changing the count, press the stop/clear key. The screen for selecting maintenance item No. is displayed.							
U252	Setting the destination							
	<ul> <li>Description</li> <li>Switches the operations and screens of the machine according to the destination.</li> <li>Purpose</li> <li>To be executed after replacing the backup RAM on the main PCB or initializing the backup</li> </ul>							
	maintenance item U020, in order to return the setting to the value before replacement or initialization. Method							
	Press the start key. The screen for selecting an item is displayed.							
	Setting 1. Select the destination. The selecter	d item is displayed in reverse.						
	Display	Description						
	JAPAN METRIC INCH EUROPE METRIC ASIA PACIFIC	Metric (Japan) specifications Inch (North America) specifications Metric (Europe) specifications Metric (Asia Pacific) specifications						
	<ol> <li>Press the start key. The setting is set, and the machine automatically returns to the same status as wher the power is turned on.</li> </ol>							
	<b>Completion</b> To exit this maintenance item without selecting a maintenance item No. is dis	changing the current count, press the stop/clear key. The screen for splayed.						
	Supplement The specified initial settings are provid	ded according to the destinations in the maintenance items below. To s, be sure to run maintenance item U021 after changing the destination.						

Maintenance item No.	Title	Japan	Inch	Europe Metric, Asia Pacific
253	Switching between double and single counts Setting auto clear time	Single	Double	Double
255		120 s	90 s	90 s

item No.		Description				
U253	Switching between double and single counts					
	Description					
	Switches the count system for the total counter and other counters.					
	Purpose	any acruice previder) request coloct if A0(11" v 17" pener is to be counted as any abasi				
		opy service provider) request, select if A3/11" $\times$ 17" paper is to be counted as one sheet sheets (double count).				
	Method					
		The screen for selecting an item is displayed.				
	Setting					
	1. Select double o	single count. The selected item is displayed in reverse.				
	Display	Description				
	DOUBLE COU					
	SINGLE COUN	IT Single count for all size paper				
	Initial setting: Do	DUBLE COUNT ey. The setting is set, and the screen for selecting a maintenance item No. is displayed.				
	Completion					
	To exit this mainten	ance item without changing the current setting, press the stop/clear key. The screen fo ance item No. is displayed.				
U254	Turning auto start					
0234	Description					
		art function is turned on.				
	Purpose					
		e is necessary. If incorrect operation occurs, turn the function off: this may solve the				
	problem.					
	Method					
	Press the start key.	The screen for selecting an item is displayed.				
	Setting					
	0	Les OFF The coloried item is displayed in sources				
	1. Select either Of	I or OFF. The selected item is displayed in reverse.				
	1. Select either ON Display	Description				
	1. Select either Of Display	Description           Auto start function on				
	1. Select either Of Display ON OFF	Description           Auto start function on           Auto start function off				
	1. Select either Of Display ON OFF Initial setting: O	Description           Auto start function on Auto start function off				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I	Description           Auto start function on           Auto start function off				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           ey. The setting is set, and the screen for selecting a maintenance item No. is displayed				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				
	1. Select either Of Display ON OFF Initial setting: O 2. Press the start I Completion To exit this mainten	Description           Auto start function on Auto start function off           N           sey. The setting is set, and the screen for selecting a maintenance item No. is displayed.           ance item without changing the current setting, press the stop/clear key. The screen for				

Maintenance item No.		Descriptio	n				
U255	Setting auto clear time						
	<b>Description</b> Sets the time to return to initial settings after copying is complete.						
	<b>Purpose</b> To be set according to frequency of use. Set to a comparatively long time for continuous copying at the same settings, and a comparatively short time for frequent copying at various settings.						
	Method Press the start key. The current setting		g at vanous sollings.				
	Setting 1. Change the setting using the cursor	up/down keys.					
	Description	Setting range	Initial setting				
	Auto clear time	0 to 270	90				
	The setting can be changed by 30 s When set to 0, the auto clear function 2. Press the start key. The value is set	on is cancelled.	selecting a maintenance item No. is displayed.				
	<b>Completion</b> To exit this maintenance item without of selecting a maintenance item No. is dis		t setting, press the stop/clear key. The screen for				
U256	Turning auto preheat/energy saver fu	Inction on/off					
	<b>Description</b> Selects if the auto preheat/energy saver function is turned on. When set to ON, the time to enter preheat/ energy saver mode can be changed in copy management mode.						
	recovery time from preheat mode.	preheat time to save	e energy, or enable copying promptly without the				
	Method Press the start key. The screen for select	cting an item is displ	laved				
	Setting 1. Select ON or OFF. The selected iter						
	Display	Description					
	ON OFF		gy saver function on gy saver function off				
	Initial setting: ON 2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed. When the setting is changed from OFF to ON, the auto preheat time is set to the initial setting of 15						
	minutes. <b>Completion</b> To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.						

item No. U258		Description					
	Switching copy operation at toner empty detection						
	<b>Description</b> Selects if continuous copying is enabled after toner empty is detected, and sets the number of copies that can be made after the detection.						
		hod					
	Press the start key. The current setting is displayed.						
		ting					
	1.	Select single or continuous co		tem is displayed in re	verse.		
		Display	Description				
		SINGLE CONTINUE	Enables only s Enables single	single copying. and continuous copy	ving.		
	2.	Initial setting: SINGLE Set the number of copies that	can be made using t	-	-		
		Description		Setting range	Initial setting		
		Number of copies after toner	empty detection	5 to 200 (copies)	70		
			opies is not limited re		for single or continuous copying ntenance item No. is displayed.		
	To e	<b>npletion</b> exit this maintenance item with ecting a maintenance item No.		rrent setting, press th	ne stop/clear key. The screen fo		
U260		anging the copy count timing					
		scription					
	Cha	anges the copy count timing for	r the total counter and	d other counters.			
	To be set according to user (copy service provider) request. If a paper jam occurs frequently in the finisher when the number of copies is counted at the time of paper ejection, copies are provided without copy counts. The copy service provider cannot charge for such copying To prevent this, the copy timing should be made earlier. If a paper jam occurs frequently in the paper conveying or fixing sections when the number of copies is count before the paper reaches those sections, copying is charged without a copy being made. To prevent this, t						
		y timing should be made later.					
		: <b>hod</b> ss the start key. The screen for	r selecting an item is	displayed.			
		ting	concerning an norm ic				
	1.	Select the copy count timing .	The selected item is	displayed in reverse.			
		Display	Description				
		FEED EJECT	When seconda When the pap	ary paper feed starts er is ejected			
		EJECT Initial setting: EJECT	When the pap	er is ejected			
		EJECT Initial setting: EJECT Press the start key. The setting	When the pap	er is ejected	ntenance item No. is displayed.		
	Cor	EJECT Initial setting: EJECT Press the start key. The setting npletion	When the pap g is set, and the scree	er is ejected en for selecting a mai	ntenance item No. is displayed. ne stop/clear key. The screen fc		
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting npletion	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting <b>npletion</b> exit this maintenance item with	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting <b>npletion</b> exit this maintenance item with	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting <b>npletion</b> exit this maintenance item with	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting <b>npletion</b> exit this maintenance item with	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting <b>npletion</b> exit this maintenance item with	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting <b>npletion</b> exit this maintenance item with	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			
	Cor To e	EJECT Initial setting: EJECT Press the start key. The setting <b>npletion</b> exit this maintenance item with	When the pap g is set, and the scree nout changing the cu	er is ejected en for selecting a mai			

Maintenance item No.			Description					
U264	Setting the display order of the date							
	Description							
	-	d day as the ord	er of that appears on lists,	etc.				
	Purpose Set according to the user preference.							
	Method							
	-	screen for sele	cting an item is displayed.					
	<ol> <li>Setting</li> <li>Press the start key.</li> <li>Select the desired of</li> </ol>		selecting an item is display	ved.				
	Display		Setting					
	YEAR-MONTH-DA MONTH-DATE-YE DATE-MONTH-YE	AR	Year/Month/Day Month/Day/Year Day/Month/Year					
	Initial setting: "MON	TH-DATE-YEAF	R" (for the inch specificatio R" (for the metric specificat					
			et, and the screen for sele		ce item No. is displa	ayed.		
	Completion				(	,		
	selecting a maintenance		changing the current settir played.	ig, press the stop	/clear key. The scre	en to		
U265	Setting OEM purchase	er code						
	Description Sets the OEM purchase	er code.						
	<b>Purpose</b> Sets the code when rep	lacing the main	PCB and the like.					
	Method	5						
	Press the start key.							
			down keys to adjust the pr t , and the screen for selec		ce item is displayed.			
	<ol> <li>Press the start key. The count is set , and the screen for selecting a maintenance item is displayed.</li> <li>Completion         To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item is displayed.     </li> </ol>							
U274	Ŭ							
_	Setting the laser scanner unit type Description							
	Sets the type of the laser scanner unit according to the label stuck on the laser scanner unit. Moreover, changes output power of the laser scanner unit.							
	Purpose							
	To set the type when the laser scanner unit control is changed. Also if reproducibility of half tone is not proper,							
	this mode is used to increase the output power of the laser scanner unit to increase the density. <b>Method</b>							
	Method Press the start key. The screen for selecting an item is displayed.							
	Setting							
	<ol> <li>Select the item to be set. The selected item is displayed in reverse.</li> <li>Change the setting using the cursor up/down keys.</li> </ol>							
	Display	Description	ap/down keys.	Setting range	Initial setting	7		
		-	ser scanner unit			-		
	LASER POWER		r unit output power	0 to 1	0			
	come to come out d	arkly.	nanged into 1 from 0, the o					
	-	ie setting is set	and the screen for selecti	ng a maintenance	e item ivo. is displaye	eu.		
	To exit this maintenanc		changing the current settir	ng, press the stop	/clear key. The scre	en fo		
	The setting of LASE come to come out d 3.Press the start key. Th Completion	Laser scanne R POWER is ch larkly. ne setting is set e item without o	nanged into 1 from 0, the o and the screen for selecti changing the current settir	⊔ utput power of LSI ng a maintenance	U is go up item No	. is displaye		

Maintenance item No.		Description					
U329	Default setting Auto rotation copy/So	ort copy					
	Description	n copy/Sort copy selected when auto clear is triggered or the reset key					
	Purpose To be set as required according to the user.						
	Method 1. Press the start key. The screen for selecting an item is displayed. 2. Select the item to be set.						
	Setting Auto rotation copy 1. Select ON or OFF. Initial setting: ON	et, and the screen for selecting a maintenance item No. is displayed.					
	Setting Sort copy 1. Select ON or OFF. Initial setting: ON 2. Press the start key. The setting is set	et, and the screen for selecting a maintenance item No. is displayed.					
	Completion	r selecting an item. The screen for selecting a maintenance item No. is					
U330		r stacking mode during sort operation					
	<b>Description</b> When sort copying is set to perform automatically in the output form setting of the user simulation, sets the number of sheets at which the eject location is switched to the optional finisher (only when the finisher is installed).						
	<b>Purpose</b> To be set as required according to the n	number of copies the user makes.					
	Method Press the start key. The current setting	is displayed.					
		using the numeric keys or cursor up/down keys. et. The screen for selecting a maintenance item No. is displayed.					
	<b>Completion</b> To exit this maintenance item without of selecting a maintenance item No. is dis	changing the current setting, press the stop/clear key. The screen for played.					
U331	Switching the finisher eject section						
	the optional 3000-sheet finisher or book <b>Purpose</b>	bying from the original table are ejected face up to the auxiliary tray of thet stitcher.					
	Method	,,					
	Press the start key. The screen for select	cting an item is displayed.					
	Setting 1. Select FACE UP ON or FACE UP C	OFF. The selected item is displayed in reverse.					
	Display	Description					
	FACE UP ON FACE UP OFF	To eject copies to the auxiliary tray face up To eject copies to the eject section with the highest priority					
	Initial setting: OFF	et, and the screen for selecting a maintenance item No. is displayed.					
	Completion	hanging the current setting, press the stop/clear key. The screen for					

This page is intentionally left blank.

tenance m No.				Description				
332	Setting	g the size	conversion factor					
	Description							
	Sets the factor for converting each paper size into A4/11" $\times$ 8 <sup>1</sup> / <sub>2</sub> ". The black ratio is converted for the A4/1							
	8 <sup>1</sup> /2" size using the factor set in this maintenance item. Values set are displayed in the user simulation.							
	Purpose							
	To set the factor to convert the black ratio of each paper size for A4/11" $\times$ 8 <sup>1</sup> / <sub>2</sub> " size.							
	Metho		art kov. The core on for color	na on itom io dion	lavad			
		elect the pa	art key. The screen for selec	ng an item is dispi	layeu.			
			setting using the cursor up/c	own keys.				
			version factor can be set se		ier mode (CC	PY), the p	rinter mo	ode (Pf
			e (FAX) at the screen for set	ng the size conver	rsion factor.			
	Me	etric mode	ls		1			
	D	)isplay	Description		Setting	Initial	setting	
						COPY	PRI	FAX
	A	3	Size conversion factor for A	3	0.0 to 3.0	2.0	2.0	2.0
	В	34	Size conversion factor for E	4	0.0 to 3.0	1.5	1.5	1.5
		4	Size conversion factor for A		0.0 to 3.0	1.0	1.0	1.0
		35	Size conversion factor for E	-	0.0 to 3.0	0.7	0.7	0.7
	A		Size conversion factor for A		0.0 to 3.0	0.5	0.5	0.5
	В		Size conversion factor for E		0.0 to 3.0	0.4	0.4	0.4
		OLIO	Size conversion factor for f		0.0 to 3.0	0.3	0.3	0.3
		DTHER	Size conversion factor for r	on-standard sizes	0.0 to 3.0	1.0	1.0	1.0
	Inc	ch models						
	D	isplay	Description		Setting	Initial	-	1
						COPY	PRI	FAX
		1×17	Size conversion factor for 1		0.0 to 3.0	2.0	2.0	2.0
		.5×14	Size conversion factor for 8		0.0 to 3.0	1.5	1.5	1.5
		.5×11	Size conversion factor for 8		0.0 to 3.0	1.0	1.0	1.0
		.5 × 8.5 )THER	Size conversion factor for 5 Size conversion factor for r		0.0 to 3.0	0.7	0.7	0.7
				on-standard sizes	0.0 to 3.0	0.5	0.5	0.5
			art key. The setting is set.					
	Comp		And a state of the			/ -		
			tenance item without chang tenance item is displayed.	ng the current set	tting, press th	e stop/clea	ar key. I	ne scre
341		<u> </u>	feed location setting for pr	nting function				
	Descri		leed location setting for pr					
			d location specified for print	r output (only if a r	orinter kit is in	istalled)		
	Purpo			r output (only if a p		iotanou).		
			eed location only for printer	utput.				
	Metho		, , , , , , , , , , , , , , , , , , ,					
		-	art key. The screen for selec	ng an item is displ	laved.			
			aper feed location for the pri			ed in reve	se.	
		) isplay		cription				
		TIRST		•				
				er drawer				
		ECOND		er drawer				
		OURTH		onal upper drawer onal lower drawer				
		CF		onal large paper de	ock			
			Opt	na laige paper ut	eck			
	L							
	3. Pre	ess the sta	art key. The setting is set.					
	3. Pre <b>Comp</b>	ess the sta letion	art key. The setting is set.	ting a maintanana	o itom ic dic-	laved		
	3. Pre <b>Comp</b>	ess the sta letion		ting a maintenanc	e item is disp	layed.		
	3. Pre <b>Comp</b>	ess the sta letion	art key. The setting is set.	ting a maintenanc	e item is disp	layed.		

Maintenance item No.		Descriptio	n			
U342		mber of sheets to b	e ejected continuously when the internal eject tray			
	is selected as the eject location. <b>Purpose</b> According to user request, sets or cance <b>Method</b> 1. Press the start key. The screen for s 2. Select ON or OFF.					
	Display	Description				
	ON OFF		the number of sheets on the number of sheets			
	Details of restriction (number of she	ets to be ejected co	ontinuously after the start key is pressed)			
	Condition		Number of sheets			
	When no optional ejection device i When the job separator or duplex When the finisher is installed		250 150 100			
	3. Press the start key. The setting is se <b>Completion</b> Press the stop/clear key. The screen for		enance item No. is displayed.			
U343	Switching between duplex/simplex constrained by Bescription Switches the initial setting between dup					
	To be set according to frequency of use: set to the more frequently used mode.  Method Press the start key. The screen for selecting an item is displayed.  Setting  1. Select ON or OFF. The selected item is displayed in reverse.					
	Display	Description				
	ON OFF	Duplex copy Simplex copy				
	Completion	hanging the curren	or selecting a maintenance item No. is displayed. t setting, press the stop/clear key. The screen for			

Maintenance item No.		Description					
U344	Setting preheat/energy	y saver mode					
	<b>Description</b> Changes the control for	preheat/energy saver mode.					
	<b>Purpose</b> According to user request, selects which has priority, the recovery time from preheat or energy saver.						
	Method	st, selects which has phonty, the recovery time from preheat or energy saver.					
	Press the start key. The screen for selecting an item is displayed.						
	Setting           1. Select control mode. The selected item is displayed in reverse.						
	Display	Control in preheat mode					
	INSTANT READY	Without decreasing the fixing control temperature, the display on the operation panel is turned off.					
	ENERGY STAR	The fixing control temperature is set at 130°C. The copier is forcibly stabilized 30 s after exiting preheat/energy saver mode.					
	E 2000	The fixing control temperature is decreased by 70°C.					
	-	GY STAR The setting is set, and the screen for selecting a maintenance item No. is displayed.					
	<b>Completion</b> To exit this maintenance selecting a maintenance	e item without changing the current setting, press the stop/clear key. The screen for e item No. is displayed.					
U345	Setting the value for n	naintenance due indication					
	number of copies that c When the difference be count reaches the set v	message notifying that the time for maintenance is about to be reached, by setting the an be made before the current maintenance cycle ends. wween the number of copies of the maintenance cycle and that of the maintenance alue, the message is displayed. a is effective for only Japanese specification.					
U346	Setting the sleep mod						
	<ul> <li>Description</li> <li>If the machine is equipped with the facsimile feature, this mode sets whether or not the machine performs finisher initialization when the machine receives a facsimile with the main switch off.</li> <li>Purpose</li> <li>To disable finisher initialization, change the setting value to MODE1. If MODE1 is selected, however, even if the main switch is turned off, control in the sleep mode will be performed and the power supply PCB will not be</li> </ul>						
	turned off, resulting in ir Method	ncrease of power consumption.					
		screen for selecting an item is displayed.					
	Setting	IODE1. The selected item is displayed in reverse.					
	Display	Description					
	MODE0 MODE1	To enable finisher initialization To disable finisher initialization					
	Initial setting: MODI 2. Press the start key.	E0 The setting is set, and the screen for selecting a maintenance item No. is displayed.					
	<b>Completion</b> To exit this maintenance selecting a maintenance	e item without changing the current setting, press the stop/clear key. The screen for e item No. is displayed.					
U402	Adjusting margins of	mage printing					
	Adjustment See page 1-6-13.						
U403	Adjusting margins for Adjustment See page 1-6-31.	scanning an original on the contact glass					

Maintenance item No.			Descriptio	on				
U404	Adjusting margir	ns for scanning an ori	ginal from the DI	F				
	Description Adjusts margins for scanning the original from the DF.							
	Purpose Used if margins are not correct when the optional DF is used.							
	Caution Before making this adjustment, ensure that the following adjustments have been made in maintenance mode.							
	U402 → U403 → U Method	404						
	Setting 1. Select the iter	y. The screen for select n to be set. The selecte etting using the cursor u	d item is displaye	-				
	Display	Description	Setting range	Initial setting	Change in value per step			
	A MARGIN B MARGIN C MARGIN	Left margin Leading edge margin Right margin	0 to 10 0 to 10 0 to 10	2 3 2	0.5 mm 0.5 mm 0.5 mm			
	D MARGIN	Trailing edge margin setting makes the mar	0 to 10	2	0.5 mm			
				leading edge marg				
			DF left margin	↓	DF right margin (2 ± 1.0 mm) argin			
	DF trailing edge margin (2 ± 1.0 mm) Figure 1-4-7 Correct margin amount							
U407	Interrupt copy m While this mainter Completion Press the stop/cle displayed.	t key. The value is set. <b>ode</b> nance item is being perfe	ormed, copying fro selecting an item.	om an original car The screen for se	n be made in interrupt copy mod electing a maintenance item No.			

item No.		Description				
U500	Setting the limit on data size for email transmission					
	<b>Description</b> Sets the limit on the amount of data (number of originals) sent via email from the optional network scanner.					
	<b>Purpose</b> To change the setting accord	ding to the network environment.				
	Method Press the start key. The scre	en for selecting an item is displayed.				
	Setting 1. Select the desired transm	mission capacity. The selected item is displayed in reverse.				
	Display	Setting				
	LITTLE MEDIUM LARGE	512 K bytes 51024 K bytes 2048 K bytes				
	UNLIMITED	999 number-of-sheets restrictions				
	2. Press the start key. The	value is set, and the screen for selecting a maintenance item No. is displayed.				
	<b>Completion</b> To exit this maintenance iter selecting a maintenance iter	m without changing the current setting, press the stop/clear key. The screen for				
U501	Setting image area					
	<b>Description</b> Implements the command to	o cut the area around the image when sending image data to the optional network				
	scanner.					
	Purpose To disable image cut.					
	Method					
		een for selecting an item is displayed.				
	Setting 1. Select ON or OFF. The selected item is displayed in reverse.					
	1. Select ON or OFF. The s	selected item is displayed in reverse.				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON	Selected item is displayed in reverse.  Setting  Cuts the image area (6.5 mm) Does NOT cut the image area				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The s Completion	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The s Completion	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	Selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				
	1. Select ON or OFF. The s Display ON OFF Initial setting: ON 2. Press the start key. The <b>Completion</b> To exit this maintenance iter	selected item is displayed in reverse.         Setting         Cuts the image area (6.5 mm)         Does NOT cut the image area         value is set, and the screen for selecting a maintenance item No. is displayed.         m without changing the current setting, press the stop/clear key. The screen for				

em No.		Description						
J504	Initializing the scanner NIC							
	Description							
	Initializing the optional scanner NIC to its factory default.							
	Purpose							
	To return to a setup at the time of factory shipments.							
	Method							
	<ol> <li>Press the start key. The screen for executing is displayed.</li> <li>Press EXECUTE on the touch panel. It is displayed in reverse.</li> </ol>							
	3. Press the start key. All data in the scanner NIC is initialized.							
	Completion							
		r key. The screen for selecting a maintena	nce item No. is displaye	ed.				
U505	Setting Data Base	Assistant						
	Description							
		the database linkage setting is enabled if	an optional network sca	anner is installed.				
	Purpose	acuast shanges the esting						
	Method	equest, changes the setting.						
		The screen for selecting an item is display	ved.					
	Setting							
		FF. The selected item is displayed in rever	rse.					
	Display	Description						
	ON	Database linkage se	tting is enabled.					
	OFF	Database linkage se						
	Initial setting: O	N key. The setting is set, and the screen for a						
	Completion	ance item without changing the current s	setting press the stop/c	lear key The scree				
	To exit this mainten selecting a mainten	ance item without changing the current s ance item No. is displayed.	setting, press the stop/c	lear key. The scree				
J540	To exit this mainten selecting a mainten <b>Adjusting the auxi</b>		setting, press the stop/c	lear key. The scree				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description	ance item No. is displayed. liary scanning magnification						
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magni	ance item No. is displayed.						
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magnit Purpose	ance item No. is displayed. Iiary scanning magnification fication ratio in the auxiliary scanning direc	ction when an optional r	network scanner is u				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magni Purpose When an optional r	ance item No. is displayed. liary scanning magnification	ction when an optional r ar at regular intervals in	network scanner is u				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magni Purpose When an optional r direction, this mode Method	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification	ction when an optional r ar at regular intervals in on ratio to suppress the	network scanner is u				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magni Purpose When an optional r direction, this mode Method	ance item No. is displayed. Iiary scanning magnification fication ratio in the auxiliary scanning direct network scanner is used, if stripes appea	ction when an optional r ar at regular intervals in on ratio to suppress the	network scanner is u				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magni Purpose When an optional r direction, this mode Method Press the start key. Setting	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is display	ction when an optional r ar at regular intervals in n ratio to suppress the yed.	network scanner is u				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magnit Purpose When an optional r direction, this mode Method Press the start key. Setting 1. Select the resol	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re	ction when an optional r ar at regular intervals in n ratio to suppress the yed.	network scanner is u				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magnit Purpose When an optional r direction, this mode Method Press the start key. Setting 1. Select the resol	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is display	ction when an optional r ar at regular intervals in n ratio to suppress the yed.	network scanner is u				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magni Purpose When an optional r direction, this mode Method Press the start key. Setting 1. Select the resol 2. Change the sett	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re- ing using the cursor up/down keys. Description Auxiliary scanning magnification	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse.	network scanner is u n the auxiliary scar stripes.				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magnit Purpose When an optional r direction, this mode Method Press the start key. Setting 1. Select the resol 2. Change the sett Display 200dpi	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re- ing using the cursor up/down keys. Description Auxiliary scanning magnification at the time of resolution 200 dpi	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse. Setting range -50 to +50	network scanner is u n the auxiliary scar stripes.				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magnit Purpose When an optional r direction, this mode Method Press the start key. Setting 1. Select the resol 2. Change the sett Display	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re- ing using the cursor up/down keys. Description Auxiliary scanning magnification at the time of resolution 200 dpi Auxiliary scanning magnification	ction when an optional r ar at regular intervals in n ratio to suppress the yed. verse. Setting range	network scanner is un the auxiliary scar stripes.				
J540	To exit this mainten selecting a mainten <b>Adjusting the auxi</b> <b>Description</b> Changes the magnit <b>Purpose</b> When an optional r direction, this mode <b>Method</b> Press the start key. <b>Setting</b> 1. Select the resol 2. Change the sett <b>Display</b> 200dpi 300dpi	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re- ing using the cursor up/down keys. Description Auxiliary scanning magnification at the time of resolution 200 dpi Auxiliary scanning magnification at the time of resolution 300 dpi	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse. <u>Setting range</u> -50 to +50 -50 to +50	network scanner is u n the auxiliary scar stripes.				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magnit Purpose When an optional r direction, this mode Method Press the start key. Setting 1. Select the resol 2. Change the sett Display 200dpi	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re- ing using the cursor up/down keys. Description Auxiliary scanning magnification at the time of resolution 200 dpi Auxiliary scanning magnification	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse. Setting range -50 to +50	network scanner is u n the auxiliary scar stripes. Initial setting 0 0				
J540	To exit this mainten selecting a mainten <b>Adjusting the auxi</b> <b>Description</b> Changes the magnit <b>Purpose</b> When an optional r direction, this mode <b>Method</b> Press the start key. <b>Setting</b> 1. Select the resol 2. Change the sett <b>Display</b> 200dpi 300dpi	ance item No. is displayed.         liary scanning magnification         fication ratio in the auxiliary scanning direct         network scanner is used, if stripes appearallows fine adjustment of the magnification         The screen for selecting an item is displayed         ution. The selected item is displayed in reging using the cursor up/down keys.         Description         Auxiliary scanning magnification at the time of resolution 200 dpi         Auxiliary scanning magnification at the time of resolution 300 dpi         Auxiliary scanning magnification at the time of resolution 400 dpi         Auxiliary scanning magnification	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse. <u>Setting range</u> -50 to +50 -50 to +50	network scanner is u n the auxiliary scar stripes. Initial setting 0 0				
J540	To exit this mainten selecting a mainten Adjusting the auxi Description Changes the magni Purpose When an optional r direction, this mode Method Press the start key. Setting 1. Select the resol 2. Change the sett Display 200dpi 300dpi 400dpi 600dpi	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re- ing using the cursor up/down keys. Description Auxiliary scanning magnification at the time of resolution 200 dpi Auxiliary scanning magnification at the time of resolution 300 dpi Auxiliary scanning magnification at the time of resolution 400 dpi Auxiliary scanning magnification at the time of resolution 600 dpi	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse. Setting range -50 to +50 -50 to +50 -50 to +50 -50 to +50 -50 to +50	etwork scanner is un the auxiliary scar stripes. Initial setting 0 0 0 0 0				
J540	To exit this mainten selecting a mainten <b>Adjusting the auxi</b> <b>Description</b> Changes the magni <b>Purpose</b> When an optional r direction, this mode <b>Method</b> Press the start key. <b>Setting</b> 1. Select the resol 2. Change the sett <b>Display</b> 200dpi 300dpi 400dpi 600dpi 3. Press the start k	ance item No. is displayed.         liary scanning magnification         fication ratio in the auxiliary scanning direct         network scanner is used, if stripes appearallows fine adjustment of the magnification         The screen for selecting an item is displayed         ution. The selected item is displayed in reging using the cursor up/down keys.         Description         Auxiliary scanning magnification at the time of resolution 200 dpi         Auxiliary scanning magnification at the time of resolution 300 dpi         Auxiliary scanning magnification at the time of resolution 400 dpi         Auxiliary scanning magnification	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse. Setting range -50 to +50 -50 to +50 -50 to +50 -50 to +50 -50 to +50	etwork scanner is un the auxiliary scar stripes. Initial setting 0 0 0 0 0				
J540	To exit this mainten selecting a mainten <b>Adjusting the auxi</b> <b>Description</b> Changes the magni <b>Purpose</b> When an optional r direction, this mode <b>Method</b> Press the start key. <b>Setting</b> 1. Select the resol 2. Change the sett <b>Display</b> 200dpi 300dpi 400dpi 600dpi 3. Press the start <b>F</b> <b>Completion</b>	ance item No. is displayed. <b>liary scanning magnification</b> fication ratio in the auxiliary scanning direct network scanner is used, if stripes appear allows fine adjustment of the magnification The screen for selecting an item is displayed ution. The selected item is displayed in re- ing using the cursor up/down keys. Description Auxiliary scanning magnification at the time of resolution 200 dpi Auxiliary scanning magnification at the time of resolution 300 dpi Auxiliary scanning magnification at the time of resolution 400 dpi Auxiliary scanning magnification at the time of resolution 600 dpi	ction when an optional r ar at regular intervals in on ratio to suppress the yed. verse. Setting range -50 to +50 -50 to +50 -50 to +50 -50 to +50 -50 to +50 selecting a maintenance	etwork scanner is un in the auxiliary scar stripes. Initial setting 0 0 0 0 0 0 0 0				

tem No.	Description				
U901 C	Checking/clearing copy counts by paper feed locations				
	Description Displays or clears copy counts by paper feed locations.				
	Purpose To check the time to re	place consumable parts. Also to clear the c	ounts after replac	ing the consumab	le part
	lethod				
		. The counts by paper feed locations are di using the cursor up/down keys.	splayed.		
	Display	Paper feed locations			
	BYPASS FIRST SECOND THIRD FORTH LCF DUPLEX	Bypass tray Upper drawer Lower drawer Optional drawer 1 Optional drawer 2 Optional large paper dec Optional duplex unit	k		
	When an optional i	paper feed device is not installed, the corre	sponding count is	not displayed.	
C	To clear the counts 2. Press the start key. Completion To exit this maintenant	be cleared. The selected item is displayed for all paper feed locations, press ALL on The count is cleared, and the screen for se ce item without changing the current settir	the touch panel. lecting a maintena		
s	electing a maintenand	ce item No. is displayed.			
U902 C	selecting a maintenance item No. is displayed. Checking/clearing finisher punch count				
	clearing fil	nisher punch count			
D S P	Description Sets the punch limit an Purpose	d displays and clears the punch-hole scrap			
<b>F</b> 9 9 0 0 <b>9</b> 0 0 <b>9</b> 0 0 <b>9</b>	Description Sets the punch limit an Purpose Sets the punch limit to punch-hole scrap coun collection. If punch-hol cleared and consequen Start 1. Press the start key	d displays and clears the punch-hole scrap notify the user of the time to collect punch- t if a message requiring collection of punch- e scrap is collected with the copier power to htly this problem occurs.	hole scrap. Also, u hole scrap is show urned off, the pun	used to manually c vn on the touch pa	clear th nel aft
<b>F</b> 9 9 0 0 <b>9</b> 0 0 <b>9</b> 0 0 <b>9</b>	Description Sets the punch limit an Purpose Sets the punch limit to punch-hole scrap count collection. If punch-hol cleared and consequent Start 1. Press the start key 2. Select the item. Th	d displays and clears the punch-hole scrap notify the user of the time to collect punch- t if a message requiring collection of punch- e scrap is collected with the copier power to ntly this problem occurs.	hole scrap. Also, u hole scrap is show urned off, the pund ed.	used to manually c vn on the touch pa ch-hole scrap cou	clear th nel aft
<b>F</b> 9 9 0 0 <b>9</b> 0 0 <b>9</b> 0 0 <b>9</b>	Description Sets the punch limit an Purpose Sets the punch limit to punch-hole scrap count collection. If punch-hol cleared and consequent Start 1. Press the start key 2. Select the item. Th Display	d displays and clears the punch-hole scrap notify the user of the time to collect punch- t if a message requiring collection of punch- e scrap is collected with the copier power to ntly this problem occurs. The screen for selecting in item is display e selecting an item is displayed in reverse.	hole scrap. Also, u hole scrap is show urned off, the pun- ed. Setting range	used to manually of vn on the touch part ch-hole scrap cou	clear th nel aft
<b>F</b> 9 9 0 0 <b>9</b> 0 0 <b>9</b> 0 0 <b>9</b>	Description Sets the punch limit an Purpose Sets the punch limit to punch-hole scrap count collection. If punch-hol cleared and consequent Start 1. Press the start key 2. Select the item. Th	d displays and clears the punch-hole scrap notify the user of the time to collect punch- t if a message requiring collection of punch- e scrap is collected with the copier power to ntly this problem occurs.	hole scrap. Also, u hole scrap is show urned off, the pund ed.	used to manually c vn on the touch pa ch-hole scrap cou	clear th nel aft

Maintenance item No.	Description
U903	Checking/clearing the paper jam counts
	<b>Description</b> Displays or clears the jam counts by jam locations.
	<b>Purpose</b> To check the paper jam status. Also to clear the jam counts after replacing consumable parts.
	<ul> <li>Method</li> <li>1. Press the start key. The jam count is displayed by jam codes.</li> <li>2. Change the screen using the * or # keys.</li> </ul>
	<ul><li>Clearing</li><li>1. Press the reset key. Jam counts cannot be cleared individually.</li><li>2. Press the start key. The count is cleared, and the screen for selecting a maintenance item No. is displayed.</li></ul>
	<b>Completion</b> To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U904	Checking/clearing the service call counts
	<b>Description</b> Displays or clears the service call code counts by types.
	<b>Purpose</b> To check the service call code status by types. Also to clear the service call code counts after replacing consumable parts.
	<ul><li>Method</li><li>1. Press the start key. The service call count is displayed by service call codes.</li><li>2. Change the screen using the * or # keys.</li></ul>
	<ul> <li>Clearing</li> <li>1. Select the count to be cleared. The selected item is displayed in reverse. To clear all counts, press the reset key.</li> <li>2. Press the start key. The count is cleared. When all counts are cleared, the screen for selecting a</li> </ul>
	maintenance item No. is displayed. Completion
	To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description				
U905	Checking/clearing counts by optional devices				
	<b>Description</b> Displays or clears the counts of the optional DF or finisher.				
	<b>Purpose</b> To check the use of	the DF and finisher	r. Also to clear the counts after replacing consumable parts.		
	Method				
		ce, the count of which	selecting an item is displayed. ch is to be checked and press the start key. The count of the selected		
	Display	Description			
	CHANGE ADF BADF		ement count ided originals that has passed through the DF in ADF mode sided originals that has passed through the DF in RADF mode		
	Finisher (SOR				
	Display	,	Description		
	CP CNT STAPLE		No. of copies that has passed Frequency the stapler has been activated		
	PUNCH STACK		Frequency the punch has been activated Frequency the stacker has been activated		
U906	displayed. Resetting partial o		or selecting an item. The screen for selecting a maintenance item No. is		
	<b>Description</b> Resets the service	-	operation control.		
	<b>Purpose</b> To be reset after parelated parts are se		performed due to problems in the drawers or other sections, and the		
	Method 1. Press the start		al		
	<ol> <li>Press EXECUTE on the touch panel.</li> <li>Press the start key to reset partial operation control. The maintenance mode is exited, and the machine returns to the same status as when the main switch is turned on.</li> </ol>				

U908	Changing the total counter v Description Displays, clears and changes t	alue			
	Displays, clears and changes t				
	Durness	he total counter value.			
	<b>Purpose</b> To check the total counter valu	e.			
	Method	-			
	Press the start key. The screen	for selecting an item is displayed.			
	Display	Description			
	COUNT (PRINTER)	The total count value at the time of printer use			
	COUNT (FAX)	The total count value at the time of facsimile use			
	Clearing				
	<ol> <li>Select the count to be clea</li> <li>Press the reset key.</li> </ol>	red.			
		lue is cleared. The screen for selecting a maintenance item No. is displayed.			
	Setting				
	1. Select the count to be char				
	<ol> <li>Enter a six-digit value using</li> <li>Press the start key. The value</li> </ol>	g the numeric keys. lue is set. The screen for selecting a maintenance item No. is displayed.			
	Completion				
	To exit this maintenance item	without changing the current total counter value, press the stop/clear key. Th			
	screen for selecting a maintena	ance item No. is displayed.			
U910	Clearing the black ratio data				
	<b>Description</b> Clears the accumulated black r	ratio data for A1 shoets			
	Purpose				
	•	les such as during maintenance service.			
	Method				
	1. Press the start key.	ab nonal			
	2. Press CANCEL on the touc 3. Press the start key. The	accumulated black ratio data is cleared, and the screen for selecting			
	maintenance item is displa				
	Completion				
		without changing the current setting, press the stop/clear key. The screen for			
U911	selecting a maintenance item is displayed. Checking/clearing copy counts by paper sizes				
	Description				
	Displays and clears the paper	feed counts by paper sizes.			
	Purpose				
To check or clear the counts after replacing consul		ter replacing consumable parts.			
	<b>Method</b> Press the start key. The screen for the paper feed counts by paper size is displayed.				
	Clearing				
	1. Select the paper size. The selected item is displayed in reverse.				
	To clear all counts, press the reset key.				
	<ol> <li>Press the start key. The count is cleared.</li> <li>When clearing all counts, the screen for selecting a maintenance item is displayed.</li> </ol>				
	Completion				
	To exit this maintenance item without changing the count, press the stop/clear key. The screen for selecting a				
	maintenance item is displayed.				

2DF

Maintenance item No.	Description
U937	Model name setting
	<b>Description</b> Sets the product name to be displayed on the printer status screen, etc. when installing a printer board (optional). <b>Purpose</b>
	To set the name if initialization is performed.
	Method Press the start key. The screen for selecting an item is displayed.
	Setting 1. Select the **30 or **31. The selected item is displayed in reverse. Initial setting: **30
	<ol> <li>Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed.</li> <li>Completion         To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for     </li> </ol>
	selecting a maintenance item No. is displayed.
U960	Outputting the machine used circumstances list
	<b>Description</b> Outputs machine used circumstances list and clears the data.
	<b>Purpose</b> To check the machine operation situation. Also to clear the data.
	Method Press the start key.
	Outputting the list 1. Select OUTPUT. 2. Press the start key to output the list.
	Clearing <ol> <li>Select COUNT CLEAR.</li> <li>Press the start key to clear the count.</li> </ol>
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U968	Shading plate switching setting
	<b>Description</b> Adjusts the reference value for shading correction in accordance with the new or old type of shading plate.
	<b>Purpose</b> To set the value when the shading plate is replaced.
	Method Press the start key.
	Setting 1. Set the preset value in accordance with the new or old type of shading plate. New shading plate (part No.: 2BC12130): 1 Old shading plate (part No.: 35912200): 0
	2. Press the start key. The setting is set, and the screen for selecting a maintenance item No. is displayed. <b>Completion</b>
	To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.		Description			
U990	Checking/clearing the time for the exposure lamp to light				
	<b>Description</b> Displays, clears or changes the accumulated time for the exposure lamp to light.				
	<b>Purpose</b> To check duration of use of the exporeplacement.	sure lamp. Also to clear the accumulated time for the lamp after			
	Method Press the start key. The accumulated tin	ne of illumination for the exposure lamp is displayed in minutes.			
	<ol> <li>Clearing         <ol> <li>Press the reset key.</li> <li>Press the start key. The accumulated is displayed.</li> </ol> </li> </ol>	d time is cleared, and the screen for selecting a maintenance item No.			
	-	sing the numeric keys. and the screen for selecting a maintenance item No. is displayed.			
	<b>Completion</b> To exit this maintenance item without ch selecting a maintenance item No. is disp	anging the accumulated time, press the stop/clear key. The screen for played.			
U991	Checking/clearing the scanner count				
	Description				
	Displays or clears the scanner operation	n count.			
	Purpose To check the status of use of the scanne	or and the second se			
	Method	JI.			
	Press the start key. The screen for select	cting an item is displayed.			
	Display	Description			
	TOTAL SCAN COUNT	Counts of scanner operation			
	NT SCAN COUNT	Counts of network scanner operation			
	<ul> <li>Clearing</li> <li>1. Select the item to be cleared.</li> <li>2. Press the reset key.</li> <li>3. Press the start key. The count is cleared. The screen for selecting a maintenance item No. is displayed.</li> </ul>				
	<ul> <li>Setting</li> <li>1. Select the item to be changed.</li> <li>2. Enter a six-digit count using the numeric key.</li> <li>3. Press the start key. The value is set. The screen for selecting a maintenance item No. is displayed.</li> </ul>				
	<b>Completion</b> To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.				

This page is intentionally left blank.

Maintenance item No.	Description				
U992	Checking or clearing the printer/fax count				
	<b>Description</b> Displays, clears or changes the print count of the printer or fax when the optional printer board or fax unit is installed.				
	<b>Purpose</b> To check the frequency of use of	f the printer or fax.			
	Method Press the start key. The screen	or selecting an item is displayed.			
	Display	Description			
	PRINTER COUNT FAX COUNT	Print count of the printer Print count of the fax			
	<ol> <li>Clearing         <ol> <li>Select the count to be cleared.</li> <li>Press the reset key.</li> <li>Press the start key. The count is cleared. The screen for selecting a maintenance item No. is displayed.</li> </ol> </li> <li>Setting         <ol> <li>Select the item to be changed.</li> <li>Enter a six-digit count using the numeric keys. To clear the counts for both printer and fax, press the reset key.</li> <li>Press the start key. The value is set.</li> </ol> </li> </ol>				
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.				

## 2DF

em No.		Description	1		
J993	Outputting a VTC-PG pattern				
	Description Selects and outputs a VTC-P	G pattern created in the copier			
	Purpose				
	When performing respective i the scanner with a non-scann		ed to check the machine status apart fr	rom that o	
	Method				
	1. Press the start key. The s 2. Select the VTC-PG patter	creen for selecting an item is c	lisplayed.		
	Display	PG pattern to be output	Purpose		
	PG1		Center line adjustment		
	PG2		<ul> <li>Lateral squareness adjustment</li> <li>Magnification adjustment</li> </ul>		
	PG3				
	4. Press the start key. A VTC Completion		yed. The screen for selecting a maintenance	item No. i	

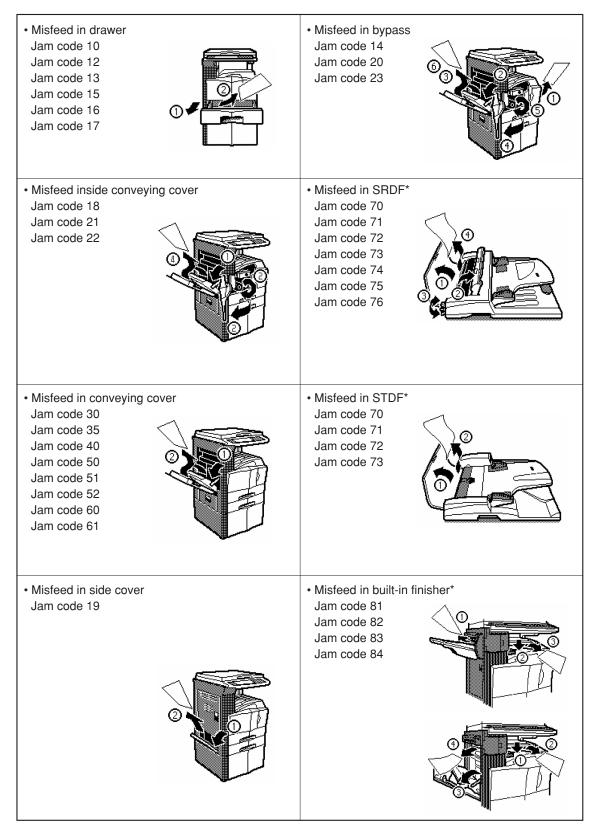
# 1-5-1 Paper misfeed detection

### (1) Paper misfeed indication

When a paper misfeed occurs, the copier immediately stops copying and displays the jam location on the operation panel. Paper misfeed counts sorted by the detection condition can be checked in maintenance item U903.

To remove paper jammed in the copier, open the front cover, conveying cover, side cover or drawer.

Paper misfeed detection can be reset by opening and closing the respective covers to turn safety switch 1 or 2 off and on.



Jam code	Contents	See pape
10	No paper feed from the upper drawer	P.1-5-4
11	No paper feed from the lower drawer	P.1-5-4
12	No paper feed from large paper deck*/paper feed desk* upper drawer	P.1-5-4
13	No paper feed from paper feed desk* lower drawer	P.1-5-4
14	No paper feed from bypass	P.1-5-5
15	Jam in large paper deck* horizontal paper conveying section	P.1-5-5
16	Jam in large paper deck* horizontal paper conveying section	P.1-5-5
17	Jam in large paper deck* horizontal paper conveying section	P.1-5-5
18	Misfeed in copier vertical paper conveying section	P.1-5-5
19	Misfeed in paper feed desk* vertical paper conveying section	P.1-5-6
20	Misfeed in bypass* vertical paper conveying section	P.1-5-6
21	Multiple sheets in copier paper feed section	P.1-5-6
22	Multiple sheets in copier vertical conveying section	P.1-5-8
23	Multiple sheets in bypass vertical conveying section	P.1-5-8
30	Misfeed in registration/transfer section	P.1-5-9
35	Secondary paper feed does not start	P.1-5-9
40	Misfeed in fixing section	P.1-5-9
50	Misfeed in eject section P.	
51	Misfeed in job separator* eject section P.1-5-	
52	Misfeed in feedshift section P.1-5-1	
53	Misfeed in switchback section (switchback unit*) P.1-5-	
60	Duplex paper conveying section 1 (duplex unit*)	P.1-5-12
61	Duplex paper conveying section 2 (duplex unit*)	P.1-5-12
70	No original feed (SRDF*)	P.1-5-13
71	An original jam in the original feed/conveying section (SRDF*)	P.1-5-13
72	An original jam in the original feed section (SRDF*)	P.1-5-13
73	An original jam in the original conveying section (SRDF*)	P.1-5-14
74	An original jam remaining after retries (SRDF*)	P.1-5-14
75	An original jam in the switchback section 1 (SRDF*)	P.1-5-14
76	An original jam in the switchback section 2 (SRDF*)	P.1-5-15
81	Jam between the finisher and copier (built-in finisher*)	P.1-5-15
82	Intake jam (built-in finisher*)	P.1-5-15
83	Jam during paper conveying for batch ejection 1 (built-in finisher*)	P.1-5-15
84	Jam during paper conveying for batch ejection 2 (built-in finisher*)	P.1-5-15

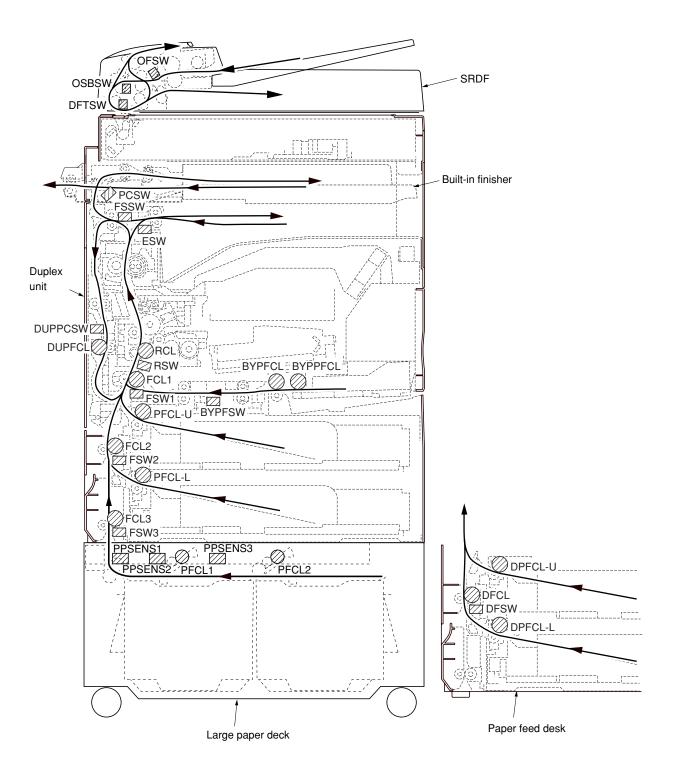
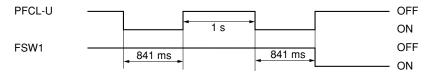


Figure 1-5-1

## 1. Paper feed section

• No paper feed from the upper drawer (jam code 10)

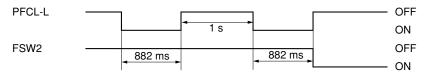
Feed switch 1 (FSW1) does not turn on within 841 ms of the upper paper feed clutch (PFCL-U) turning on; the clutch is then successively turned off for 1 s and turned back on, but the switch again fails to turn on within 841 ms.



#### Timing chart 1-5-1

• No paper feed from the lower drawer (jam code 11)

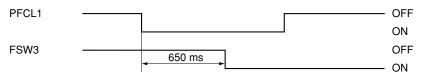
Feed switch 2 (FSW2) does not turn on within 882 ms of the lower paper feed clutch (PFCL-L) turning on; the clutch is then successively turned off for 1 s and turned back on, but the switch again fails to turn on within 882 ms.



### Timing chart 1-5-2

• No paper feed from large paper deck\* (jam code 12)

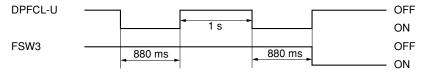
Feed switch 3 (FSW3) does not turn on within 650 ms of paper feed clutch 1 (PFCL1) turning on.



### Timing chart 1-5-3

• No paper feed from paper feed desk\* upper drawer (jam code 12)

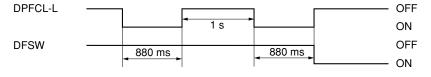
Feed switch 3 (FSW3) does not turn on within 880 ms of the desk upper paper feed clutch (DPFCL-U) turning on; the clutch is then successively held off for 1 s and turned back on, but the switch again fails to turn on within 880 ms.

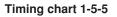


### Timing chart 1-5-4

• No paper feed from paper feed desk\* lower drawer (jam code 13)

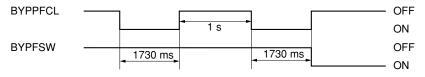
Desk feed switch (DFSW) does not turn on within 880 ms of the desk lower paper feed clutch (DPFCL-L) turning on; the clutch is then successively held off for 1 s and turned back on, but the switch again fails to turn on within 880 ms.





### • No paper feed from bypass (jam code 14)

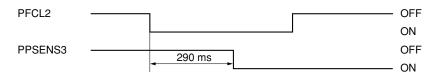
The bypass feed switch (BYPFSW) does not turn on within 1730 ms of the bypass paper feed clutch (BYPPFCL) turning on; the clutch is then successively held off for 1 s and turned back on, but the switch again fails to turn on within 1730 ms.



#### Timing chart 1-5-6

• Jam in large paper deck\* horizontal paper conveying section (jam code 15)

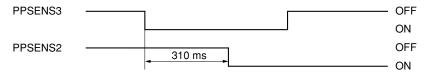
Paper path sensor 3 (PPSENS3) does not turn on within 290 ms of the paper feed clutch 2 (PFCL2) turning on.



### Timing chart 1-5-7

· Jam in large paper deck\* horizontal paper conveying section (jam code 16)

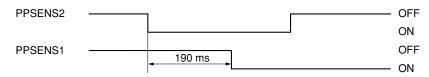
Paper path sensor 2 (PPSENS2) does not turn on within 310 ms of the paper path sensor 3 (PPSENS3) turning on.



#### Timing chart 1-5-8

· Jam in large paper deck\* horizontal paper conveying section (jam code 17)

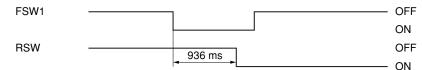
Paper path sensor 1 (PPSENS1) does not turn on within 190 ms of the paper path sensor 2 (PPSENS2) turning on.



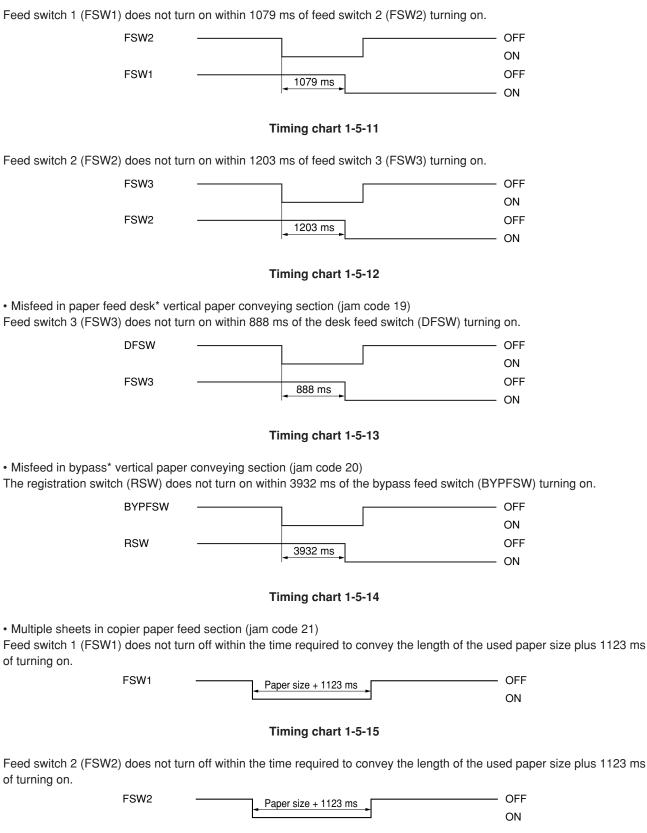
### Timing chart 1-5-9

Misfeed in copier vertical paper conveying section (jam code 18)

The registration switch (RSW) does not turn on within 936 ms of feed switch 1 (FSW1) turning on.



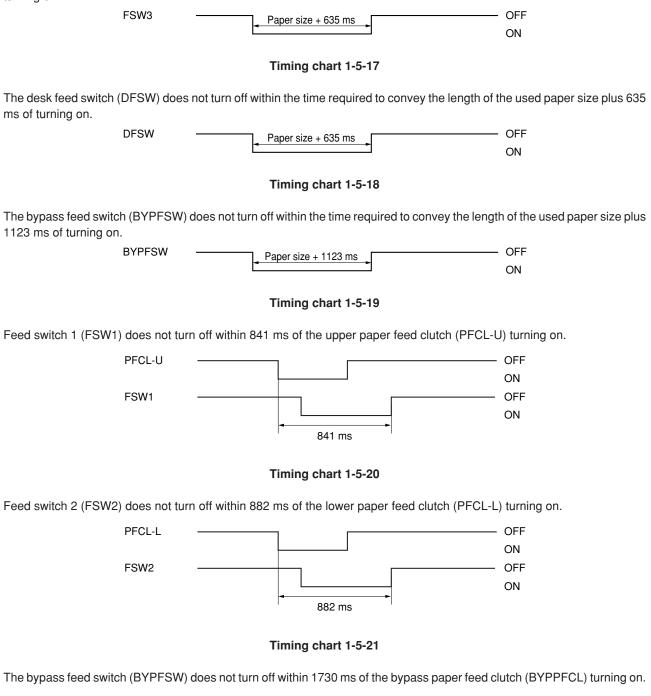


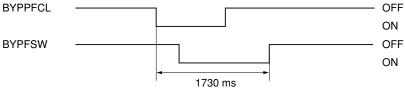


Timing chart 1-5-16

2DF

Feed switch 3 (FSW3) does not turn off within the time required to convey the length of the used paper size plus 635 ms of turning on.

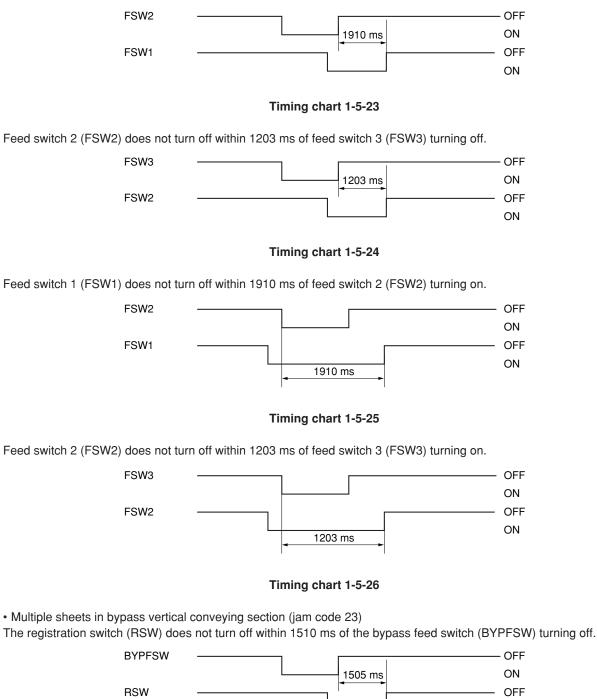




Timing chart 1-5-22

• Multiple sheets in copier vertical conveying section (jam code 22)

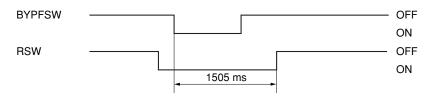
Feed switch 1 (FSW1) does not turn off within 1910 ms of feed switch 2 (FSW2) turning off.





ON

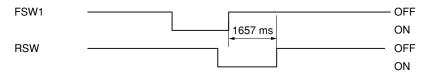
The registration switch (RSW) does not turn off within 1505 ms of the bypass feed switch (BYPFSW) turning on.



### Timing chart 1-5-28

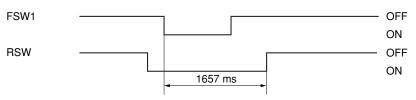
## 2. Paper conveying section

• Misfeed in registration/transfer section (jam code 30) The registration switch (RSW) does not turn off within 1657 ms of feed switch 1 (FSW1) turning off.



#### Timing chart 1-5-29

The registration switch (RSW) does not turn off within 1657 ms of feed switch 1 (FSW1) turning on.



### Timing chart 1-5-30

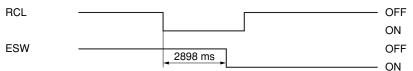
• Secondary paper feed does not start. (jam code 35)

Secondary paper feed does not start within 30 s of arrival of paper at the registration section.

### 3. Fixing section

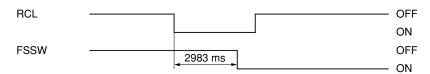
• Misfeed in fixing section (jam code 40)

The eject switch (ESW) does not turn on within 2898 ms of the registration clutch (RCL) turning on.



#### Timing chart 1-5-31

The feedshift switch (FSSW) does not turn on within 2983 ms of the registration clutch (RCL) turning on.



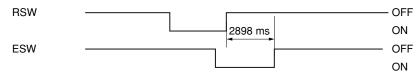
Timing chart 1-5-32

2DF

### 4. Eject section

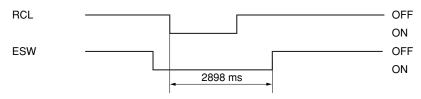
• Misfeed in eject section (jam code 50)

The eject switch (ESW) does not turn off within 2898 ms of the registration switch (RSW) turning off.



### Timing chart 1-5-33

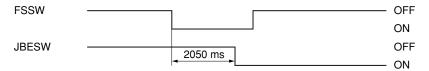
The eject switch (ESW) does not turn off within 2898 ms of the registration clutch (RCL) turning on.



### Timing chart 1-5-34

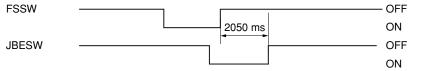
• Misfeed in job separator\* eject section (jam code 51)

The job separator eject switch (JBESW) does not turn on within 2050 ms of the feedshift switch (FSSW) turning on.



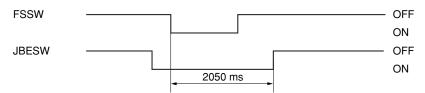
## Timing chart 1-5-35

The job separator eject switch (JBESW) does not turn off within 2050 ms of the feedshift switch (FSSW) turning off.



### Timing chart 1-5-36

The job separator eject switch (JBESW) does not turn off within 2050 ms of the feedshift switch (FSSW) turning on.

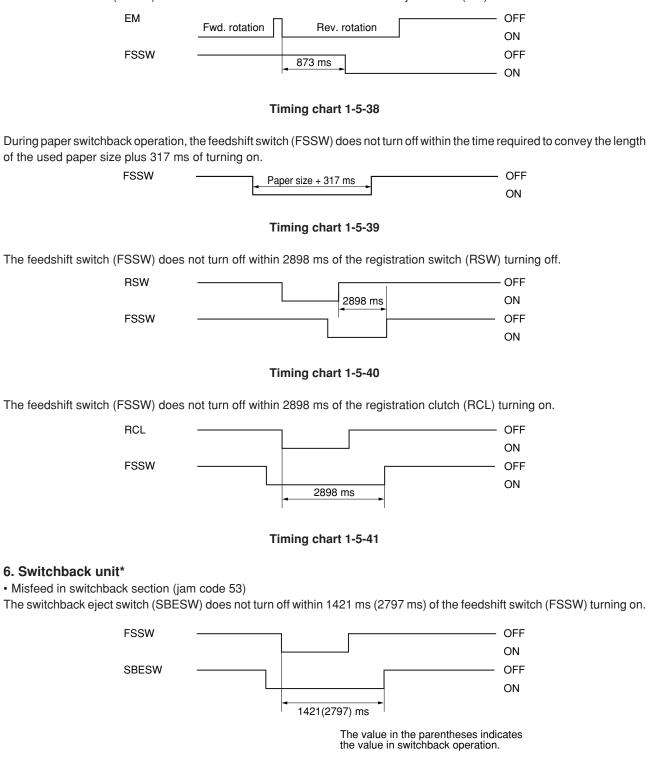




## 5. Feedshift section

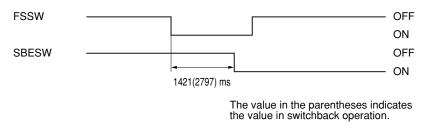
• Misfeed in feedshift section (jam code 52)

The feedshift switch (FSSW) does not turn on within 873 ms of the start of eject motor (EM) reverse rotation.



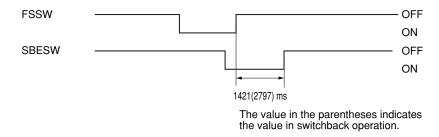
Timing chart 1-5-42

The switchback eject switch (SBESW) does not turn on within 1421 ms (2797 ms) of the feedshift switch (FSSW) turning on.





The switchback eject switch (SBESW) does not turn off within 1421 ms (2797 ms) of the feedshift switch (FSSW) turning off.

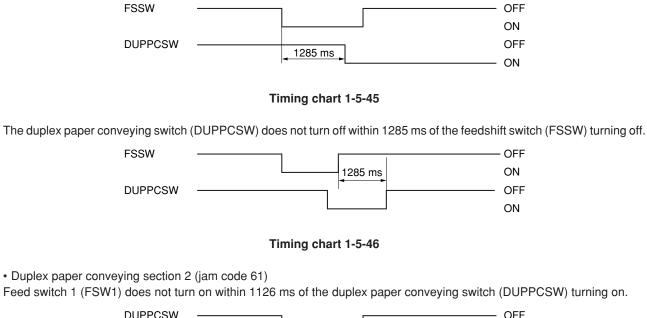


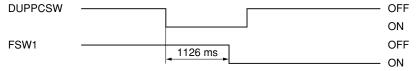
#### Timing chart 1-5-44

#### 7. Duplex section\*

• Duplex paper conveying section 1 (jam code 60)

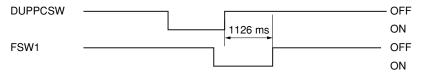
The duplex paper conveying switch (DUPPCSW) does not turn on within 1285 ms of the feedshift switch (FSSW) turning on.







Feed switch 1 (FSW1) does not turn off within 1126 ms of the duplex paper conveying switch (DUPPCSW) turning off.



#### Timing chart 1-5-48

### 8. SRDF\*

• No original feed (jam code 70)

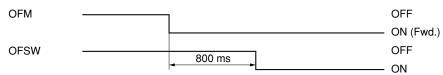
When the DF START signal is received, switches other than the original set switch (OSSW) and original size length switch (OSLSW) on the contact glass are on.

• No original feed (jam code 70)

During the primary feed of the first original in the single-sided or double-sided original mode, the original feed switch (OFSW) does not turn on within 800 ms of the original feed motor (OFM) turning on.

• No original feed (jam code 70)

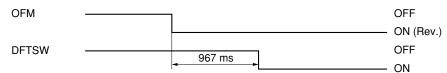
During the primary feed of the second or later original in the single-sided or double-sided original mode, the original feed switch (OFSW) does not turn on within 800 ms of the start of forward rotation of the original feed motor (OFM).



#### Timing chart 1-5-49

• An original jam in the original feed/conveying section (jam code 71)

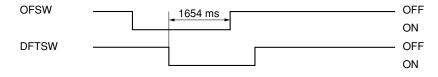
During the secondary original feed in the single-sided original mode, the DF timing switch (DFTSW) does not turn on within 967 ms of the start of reverse rotation of the original feed motor (OFM). Alternatively, during continuous original feed in single-sided original mode, the DF timing switch (DFTSW) does not turn on for the second time under the above conditions.



#### Timing chart 1-5-50

• An original jam in the original feed section (jam code 72)

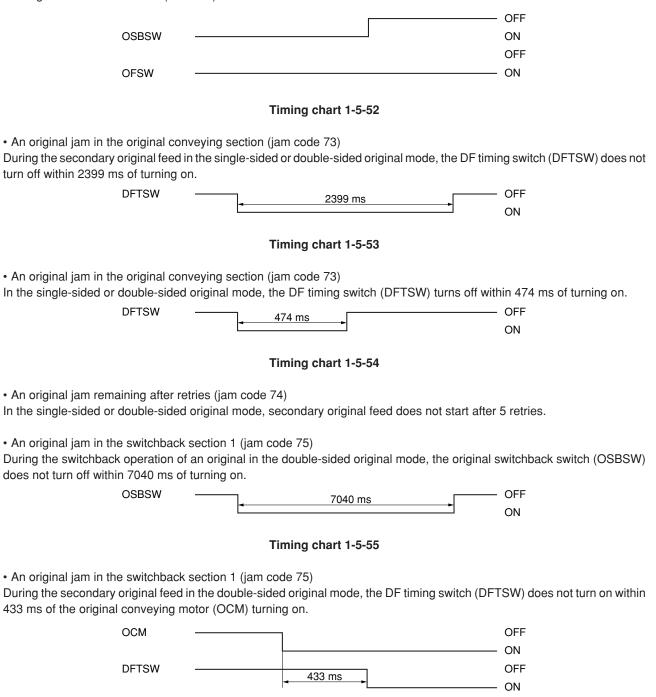
During the secondary original feed in the single-sided original mode, the original feed switch (OFSW) does not turn off within 1654 ms of the DF timing switch (DFTSW) turning on.



Timing chart 1-5-51

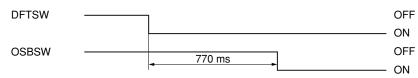
An original jam in the original feed section (jam code 72)

During original switchback operation in the double-sided original mode, the original feed switch (OFSW) remains on when the original switchback switch (OSBSW) turns off.



Timing chart 1-5-56

While scanning the first face (reverse face) of the original in the double-sided original mode, the original switchback switch (OSBSW) does not turn on within 770 ms of the DF timing switch (DFTSW) turning on.



## Timing chart 1-5-57

• An original jam in the original switchback section 2 (jam code 76)

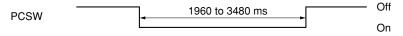
During the switchback operation of the second or later original in the double-sided original mode, the original switchback switch (OSBSW) remains off when the trailing edge of the preceding original turns the DF timing switch (DFTSW) off.

### 9. Built-in finisher\*

• Jam between the finisher and copier (jam code 81) The paper conveying switch does not turn on within 1550 ms of the signal requesting paper ejection is output from the copier.

• Intake jam (jam code 82)

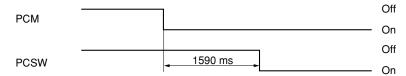
During paper intake from the copier, the paper conveying switch (PCSW) does not turn off within 1960 to 3480 ms (depending on paper size) of paper conveying switch (PCSW) turning on.



### Timing chart 1-5-58

• Jam during paper conveying for batch ejection 1 (jam code 83)

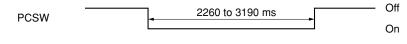
When ejection a stack of paper, the paper conveying switch (PCSW) does not turn on within 1590 ms of the paper conveying motor (PCM) turning on.



### Timing chart 1-5-59

• Jam during paper conveying for batch ejection 2 (jam code 84)

When ejection a stack of paper, the paper conveying switch (PCSW) does not turn off within 2260 to 3190 ms (varies depending on the paper size) of the paper conveying motor (PCM) turning on.





Problem	Causes/check procedures	Corrective measures
(1) A paper jam in the paper feed, convey- ing or eject section is indicated as soon	A piece of paper torn from copy paper is caught around feed switch 1/2/3, registration switch, eject switch or feedshift switch.	Check visually and remove it, if any.
as the main switch is turned on.	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace feed switch 1 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Defective feed switch 2.	Run maintenance item U031 and turn feed switch 2 on and off manually. Replace feed switch 2 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the registration switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective eject switch.	Run maintenance item U031 and turn the eject switch on and off manually. Replace the eject switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the feedshift switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(2) A paper jam in the	Paper in the upper drawer is extremely curled.	Change the paper.
paper feed section is indicated during copying (no paper feed from upper drawer). Jam code 10	Check if the upper paper feed pulley, separation pulley or forwarding pulley of the upper drawer are deformed.	Check visually and replace any deformed pulleys.
	Broken feed switch 1 ac- tuator.	Check visually and replace feed switch 1 if its actuator is broken.
	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace feed switch 1 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Check if the upper paper feed clutch malfunctions.	Run maintenance item U032 and select the upper paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the upper paper feed clutch.	Check (see page 1-5-53).

## (3) Paper misfeeds

Problem	Causes/check procedures	Corrective measures
(3) A paper jam in the	Paper in the lower drawer is extremely curled.	Change the paper.
paper feed section is indicated during copying (no paper feed from lower drawer). Jam code 11	Check if the lower paper feed pulley, separation pulley or forwarding pulley of the lower drawer are deformed.	Check visually and replace any deformed pulleys.
	Broken feed switch 2 ac- tuator.	Check visually and replace feed switch 2 if its actuator is broken.
	Defective feed switch 2.	Run maintenance item U031 and turn feed switch 2 on and off manually. Replace feed switch 2 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Check if the lower paper feed clutch malfunctions.	Run maintenance item U032 and select the lower paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the lower paper feed clutch.	Check (see page 1-5-53).
(4) A paper jam in the	Paper in the large paper deck is extremely curled.	Change the paper.
paper feed section is indicated during copying (no paper	Broken feed switch 3 ac- tuator.	Check visually and replace feed switch 3 if its actuator is broken.
feed from large pa- per deck*). Jam code 12	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Check if paper feed clutch 1 and 2 malfunctions.	Run maintenance item U247 and select paper feed clutch 1 or 2 on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with pa- per feed clutch 1 and 2.	
	Check if the deck feed clutch malfunctions.	Run maintenance item U247 and select the deck feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the deck feed clutch.	Check.
(5) A paper jam in the paper feed section	Paper in the paper feed desk upper drawer is ex- tremely curled.	Change the paper.
is indicated during copying (no paper feed from paper feed desk* upper drawer). Jam code 12	Check if the paper feed pulley, separation pulley or forwarding pulley of the paper feed desk upper drawer are deformed.	Check visually and replace any deformed pulleys.
Van OUG 12	Broken feed switch 3 ac-	Check visually and replace feed switch 3 if its actuator is broken.
	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.

Problem	Causes/check procedures	Corrective measures
(5) A paper jam in the paper feed section	Check if the desk upper paper feed clutch malfunc- tions.	Run maintenance item U247 and select the desk upper paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
is indicated during copying (no paper feed from paper feed desk* upper drawer). Jam code 12	Electrical problem with the desk upper paper feed clutch.	Check.
(6) A paper jam in the paper feed section	Paper in the paper feed desk lower drawer is ex- tremely curled.	Change the paper.
is indicated during copying (no paper feed from paper feed desk* lower drawer). Jam code 13	Check if the paper feed pulley, separation pulley or forwarding pulley of the paper feed desk lower drawer are deformed.	Check visually and replace any deformed pulleys.
	Broken desk feed switch actuator.	Check visually and replace desk feed switch if its actuator is bro- ken.
	Defective desk feed switch.	With 5 V DC present at CN2-8 on the desk main PCB, check if CN2-7 on the desk main PCB remains low when the desk feed switch is turned on and off. If it does, replace the desk feed switch.
	Check if the desk lower paper feed clutch malfunc- tions.	Run maintenance item U247 and select the desk lower paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the desk lower paper feed clutch.	Check.
(7) A paper jam in the	Paper on the bypass table is extremely curled.	Change the paper.
paper feed section is indicated during copying (no paper feed from bypass). Jam code 14	Check if the bypass paper feed pulley, separation pulley or forwarding pulley of the bypass are de- formed.	Check visually and replace any deformed pulleys.
	Broken bypass feed switch actuator.	Check visually and replace bypass feed switch if its actuator is broken.
	Defective bypass feed switch.	Run maintenance item U031 and turn the bypass feed switch on and off manually. Replace the bypass feed switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Check if the bypass paper feed clutch malfunctions.	Run maintenance item U032 and select the bypass paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the bypass paper feed clutch.	Check (see page 1-5-54).

Problem	Causes/check procedures	Corrective measures
(8) A paper jam in the paper feed section is indicated during copying (jam in large paper deck* horizontal paper conveying section). Jam code 15	Paper in the large paper deck is extremely curled.	Change the paper.
	Check if the paper side guides are deformed.	Check visually and replace.
	Defective paper path sen- sor 3.	With 5 V DC present at CN6-12 on the deck main PCB, check if CN6-11 on the deck main PCB remains low when paper path sensor 3 is turned on and off. If it does, replace paper path sensor 3.
	Check if paper feed clutch 2 malfunctions.	Run maintenance item U247 and select paper feed clutch 2 on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with pa- per feed clutch 2.	Check.
(9) A paper jam in the	Paper in the large paper deck is extremely curled.	Change the paper.
paper feed section is indicated during copying (jam in	Check if the paper side guides are deformed.	Check visually and replace.
large paper deck* horizontal paper conveying section). Jam code 16	Defective paper path sen- sor 2.	With 5 V DC present at CN6-9 on the deck main PCB, check if CN6-8 on the deck main PCB remains low when paper path sensor 2 is turned on and off. If it does, replace paper path sensor 2.
	Check if paper feed clutch 1 malfunctions.	Run maintenance item U247 and select paper feed clutch 1 on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with pa- per feed clutch 1.	Check.
(10) A paper jam in the	Paper in the large paper deck is extremely curled.	Change the paper.
paper feed section is indicated during copying (jam in	Check if the paper side guides are deformed.	Check visually and replace.
large paper deck* horizontal paper conveying section). Jam code 17	Defective paper path sen- sor 1.	With 5 V DC present at CN6-6 on the deck main PCB, check if CN6-5 on the deck main PCB remains low when paper path sensor 1 is turned on and off. If it does, replace paper path sensor 1.
	Check if the deck feed clutch malfunctions.	Run maintenance item U247 and select the deck feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the deck feed clutch.	
(11) A paper jam in the	Broken feed switch 1 ac- tuator.	Check visually and replace feed switch 1 if its actuator is broker
paper feed section is indicated during copying (jam in copier vertical paper conveying section). Jam code 18	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace feed switch 1 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Broken feed switch 2 ac- tuator.	Check visually and replace feed switch 2 if its actuator is broken

Problem	Causes/check procedures	Corrective measures
(11) A paper jam in the paper feed section is indicated during copying (jam in copier vertical paper conveying section). Jam code 18	Defective feed switch 2.	Run maintenance item U031 and turn feed switch 2 on and off manually. Replace feed switch 2 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Broken feed switch 3 ac- tuator.	Check visually and replace feed switch 3 if its actuator is broken.
	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
	Check if the feed pulleys and feed roller are de- formed.	Check and repair if necessary.
(12) A paper jam in the	Broken feed switch 3 ac- tuator.	Check visually and replace feed switch 3 if its actuator is broken.
paper feed section is indicated during copying (jam in pa- per feed desk* verti-	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
cal conveying sec- tion).	Broken desk feed switch actuator.	Check visually and replace desk feed switch if its actuator is bro- ken.
Jam code 19	Defective desk feed switch.	With 5 V DC present at CN2-8 on the desk main PCB, check if CN2-7 on the desk main PCB remains low when the desk feed switch is turned on and off. If it does, replace the desk feed switch.
(13) A paper jam in the	Broken bypass feed switch actuator.	Check visually and replace the bypass feed switch if its actuator is broken.
paper feed section is indicated during copying (jam in by- pass conveying sec- tion). Jam code 20	Defective bypass feed switch.	Run maintenance item U031 and turn the bypass feed switch on and off manually. Replace the bypass feed switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the registration switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(14) A paper jam in the paper feed section is indicated during copying (multiple sheets in copier pa- per feed section). Jam code 21	Broken feed switch 1 ac- tuator.	Check visually and replace feed switch 1 if its actuator is broken.
	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace feed switch 1 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Broken feed switch 2 ac- tuator.	Check visually and replace feed switch 2 if its actuator is broken.
	Defective feed switch 2.	Run maintenance item U031 and turn feed switch 2 on and off manually. Replace feed switch 2 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Broken feed switch 3 ac- tuator.	Check visually and replace feed switch 3 if its actuator is broken.

Problem	Causes/check procedures	Corrective measures
(14) A paper jam in the paper feed section is indicated during copying (multiple sheets in copier pa- per feed section). Jam code 21	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Broken desk feed switch* actuator.	Check visually and replace the desk feed switch if its actuator is broken.
	Defective desk feed switch*.	With 5 V DC present at CN2-8 on the desk main PCB, check if CN2-7 on the desk main PCB remains low when the desk feed switch is turned on and off. If it does, replace the desk feed switch.
	Broken bypass feed switch actuator.	Check visually and replace the bypass feed switch if its actuator is broken.
	Defective bypass feed switch.	Run maintenance item U031 and turn the bypass feed switch on and off manually. Replace the bypass feed switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Check if the upper paper feed clutch malfunctions.	Run maintenance item U032 and select the upper paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the upper paper feed clutch.	Check (see page 1-5-53).
	Check if the lower paper feed clutch malfunctions.	Run maintenance item U032 and select the lower paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the lower paper feed clutch.	Check (see page 1-5-53).
	Check if the bypass paper feed clutch malfunctions.	Run maintenance item U032 and select the bypass feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the bypass paper feed clutch.	Check (see page 1-5-54).
	Check if the feed pulleys and feed roller are de- formed.	Check and repair if necessary.
(15) A paper jam in the paper feed section is indicated during copying (multiple sheets in copier ver- tical conveying sec- tion). Jam code 22	Broken feed switch 1 ac- tuator.	Check visually and replace feed switch 1 if its actuator is broken
	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Broken feed switch 2 ac- tuator.	Check visually and replace feed switch 2 if its actuator is broken
	Defective feed switch 2.	Run maintenance item U031 and turn feed switch 2 on and off manually. Replace feed switch 2 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Broken feed switch 3 ac- tuator.	Check visually and replace feed switch 3 if its actuator is broken

Problem	Causes/check procedures	Corrective measures
<ul> <li>(15)</li> <li>A paper jam in the paper feed section is indicated during copying (multiple sheets in copier vertical conveying section).</li> <li>Jam code 22</li> </ul>	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Check if the feed pulleys and feed roller are de- formed.	Check and repair if necessary.
(16) A paper jam in the	Broken bypass feed switch actuator.	Check visually and replace the bypass feed switch if its actuator is broken.
paper feed section is indicated during copying (multiple sheets in bypass conveying section). Jam code 23	Defective bypass feed switch.	Run maintenance item U031 and turn the bypass feed switch on and off manually. Replace the bypass feed switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the registration switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(17) A paper jam in the	Broken feed switch 1 ac- tuator.	Check visually and replace feed switch 1 if its actuator is broken.
paper conveying section is indicated during copying (jam in registration/trans- fer section). Jam code 30	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace feed switch 1 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the registration switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(18) A paper jam in the paper conveying section is indicated during copying Jam code 35	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
	Check if the registration clutch malfunctions.	Run maintenance item U032 and select the registration clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the registration clutch.	Check (see page 1-5-54).
(19) A paper jam in the fixing section is indi- cated during copy- ing (jam in fixing section). Jam code 40	Broken eject switch actua- tor.	Check visually and replace the eject switch if its actuator is bro- ken.
	Defective eject switch.	Run maintenance item U031 and turn the eject switch on and off manually. Replace the eject switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Broken feedshift switch actuator.	Check visually and replace the feedshift switch if its actuator is broken.
	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the feedshift switch if indication of the corresponding switch on the operation panel is not displayed in reverse.

Problem	Causes/check procedures	Corrective measures
(19) A paper jam in the fixing section is indi- cated during copy- ing (jam in fixing section). Jam code 40	Check if the registration clutch malfunctions.	Run maintenance item U032 and select the registration clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the registration clutch.	Check (see page 1-5-54).
(20) A paper jam in the	Broken eject switch actua- tor.	Check visually and replace the eject switch if its actuator is bro- ken.
eject section is indi- cated during copy- ing (jam in eject section). Jam code 50	Defective eject switch.	Run maintenance item U031 and turn the eject switch on and off manually. Replace the eject switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
(21) A paper jam in the	Broken feedshift switch actuator.	Check visually and replace the feedshift switch if its actuator is broken.
eject section is indi- cated during copy- ing (jam in job sepa- rator* eject section). Jam code 51	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the feedshift switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Broken job separator eject switch actuator.	Check visually and replace the job separator eject switch if its actuator is broken.
	Defective job separator eject switch.	Run maintenance item U031 and turn the job separator eject switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(22) A paper jam in the feedshift section is	Check if the feedshift sole- noid malfunctions.	Run maintenance item U033 and select the feedshift solenoid on the operation panel to be turned on and off. Check the status and remedy if necessary.
indicated during copying (jam in feedshift section).	Electrical problem with the feedshift solenoid.	Check (see page 1-5-54).
Jam code 52	Broken feedshift switch actuator.	Check visually and replace the feedshift switch if its actuator is broken.
	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the feedshift switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the registration switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Check if the registration clutch malfunctions.	Run maintenance item U032 and select the registration clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the registration clutch.	Check (see page 1-5-54).

Problem	Causes/check procedures	Corrective measures
(23) A paper jam in the switchback section is indicated during copying (jam in switchback unit*). Jam code 53	Broken feedshift switch actuator.	Check visually and replace the feedshift switch if its actuator is broken.
	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the feedshift switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Broken switchback eject switch actuator.	Check visually and replace the switchback eject switch if its ac- tuator is broken.
	Defective switchback eject switch.	With 5 V DC present at CN5-2 on the switchback unit main PCB, check if CN5-4 on the switchback unit main PCB remains low when the switchback eject switch is turned on and off. If it does, replace the switchback eject switch.
(24) A paper jam in the	Broken feedshift switch actuator.	Check visually and replace the feedshift switch if its actuator is broken.
duplex section is indicated during copying (jam in du- plex paper convey- ing section 1*).	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
Jam code 60	Broken duplex paper con- veying switch actuator.	Check visually and replace the duplex paper conveying switch if its actuator is broken.
	Defective duplex paper conveying switch.	Run maintenance item U031 and turn the duplex paper convey- ing switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not dis- played in reverse.
(25) A paper jam in the	Broken duplex paper con- veying switch actuator.	Check visually and replace the duplex paper conveying switch if its actuator is broken.
duplex section is indicated during copying (jam in du- plex paper convey-	Defective duplex convey- ing switch.	Run maintenance item U031 and turn the duplex paper convey- ing switch on and off manually. Replace the duplex paper con- veying switch if indication of the corresponding switch on the op- eration panel is not displayed in reverse.
ing section 2*). Jam code 61	Broken feed switch 1 ac- tuator.	Check visually and replace feed switch 1 if its actuator is broken.
	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(26) An original jams in the SRDF* is indi- cated during copy- ing (no original feed). Jam code 70	Defective original feed switch.	Run maintenance item U244 and turn the original feed switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
	Check if the original feed motor malfunctions.	Run maintenance item U243 and select the original feed motor on the operation panel to be turned on and off. Check the status and remedy if necessary.
*Optional		

Causes/check procedures	Corrective measures
Defective DF timing switch.	Run maintenance item U244 and turn the DF timing switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
Check if the original feed motor malfunctions.	Run maintenance item U243 and select the original feed motor on the operation panel to be turned on and off. Check the status and remedy if necessary.
Defective DF timing switch.	Run maintenance item U244 and turn the DF timing switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
Defective original feed switch.	Run maintenance item U244 and turn the original feed switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
Defective original switch- back switch.	Run maintenance item U244 and turn the original switchback switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
Defective DF timing switch.	Run maintenance item U244 and turn the DF timing switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
Defective original switch- back switch.	Run maintenance item U244 and turn the original switchback switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
Defective DF timing switch.	Run maintenance item U244 and turn the DF timing switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
Check if the original con- veying motor malfunctions.	Run maintenance item U243 and select the original conveying motor on the operation panel to be turned on and off. Check the status and remedy if necessary.
Defective original switch- back switch.	Run maintenance item U244 and turn the original switchback switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective DF timing         Switch.         Check if the original feed         motor malfunctions.         Defective DF timing         switch.         Defective original feed         switch.         Defective original switch-         back switch.         Defective DF timing         switch.         Defective DF timing         switch.         Defective DF timing         switch.         Defective original switch-         back switch.         Defective DF timing         switch.         Defective original switch-         back switch.         Defective original switch-         back switch.         Defective original switch-         Defective original con-         veying motor malfunctions.         Defective original switch-

Problem	Causes/check procedures	Corrective measures
(32) Paper jams in the built-in finisher* dur- ing copying (intake jam). Jam code 82	Defective paper conveying switch.	With 5 V DC present at CN4-9 on the finisher main PCB, check if CN4-10 on the finisher main PCB remains high or low when the paper conveying switch is turned on and off. If it does, replace the paper conveying switch.
	Check if the feedshift roller or feedshift pulley is de- formed.	Check visually and replace the pulley or roller if deformed.
(33) Paper jams in the built-in finisher* dur- ing copying (jam	Defective paper conveying switch.	With 5 V DC present at CN4-9 on the finisher main PCB, check if CN4-10 on the finisher main PCB remains high or low when the paper conveying switch is turned on and off. If it does, replace the paper conveying switch.
during paper con- veying for batch ejection 1). Jam code 83	Check if the feedshift roller or press roller is deformed.	Check visually and replace the pulley or roller if deformed.
(34) Paper jams in the built-in finisher* dur- ing copying (jam	Defective paper conveying switch.	With 5 V DC present at CN4-9 on the finisher main PCB, check if CN4-10 on the finisher main PCB remains high or low when the paper conveying switch is turned on and off. If it does, replace the paper conveying switch.
toptional	Check if the eject roller or eject pulley is deformed.	Check visually and replace the pulley or roller if deformed.

### (1) Self-diagnostic function

This unit is equipped with a self-diagnostic function. When a problem is detected, copying is disabled and the problem displayed as a code consisting of "C" followed by a number between 0030 and 8500, indicating the nature of the problem. A message is also displayed requesting the user to call for service.

After removing the problem, the self-diagnostic function can be reset by turning safety switches 1 or 2 off and back on.



Figure 1-5-2 Service call code display

#### (2) Self diagnostic codes

Code	Contents		Remarks
Coue	Coments	Causes	Check procedures/corrective measures
C0030	<ul><li>Fax board* problem</li><li>Problems with data from fax board.</li></ul>	Defective fax board.	Replace the fax board and check for correct operation.
C0110	<ul> <li>Backup memory data problem</li> <li>Data in the specified area of the backup memory does not match the</li> </ul>	Problem with the backup memory data.	Turn safety switch 1 off and back on and run maintenance item U020 to set the con- tents of the backup memory data again.
	specified values.	Defective backup RAM.	If the C011 is displayed after re-setting the backup memory contents, replace the backup RAM.
C0210	<ul> <li>Operation unit PCB communication problem</li> <li>There is no reply after 20 retries at communication.</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connectors CN36, CN42 on the main PCB and CN1, CN2 and CN3 on the operation unit PCB, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective main PCB or operation unit PCB.	Replace the main PCB or operation unit PCB and check for correct operation.
C0240	<ul> <li>Printer board* communication prob- lem</li> <li>There is no reply after 20 retries at communication.</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connector CN43 on the main PCB and the connector on the printer board. Repair or replace if neces- sary.
		Defective main PCB or printer board.	Replace the main PCB or printer board and check for correct operation.
C0250	<ul> <li>Scanner network board* communi- cation problem</li> <li>There is no reply after 20 retries at communication.</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connector CN46 on the main PCB and the connector on the memory PCB. Repair or replace if neces- sary.
		Defective main PCB or scanner network board.	Replace the main PCB or scanner network board and check for correct operation.
C0280	<ul> <li>Fax board* communication problem</li> <li>There is no reply after 20 retries at communication.</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connector CN44 on the main PCB and the connector on the memory PCB. Repair or replace if neces- sary.
		Defective main PCB or fax board.	Replace the main PCB or fax board and check for correct operation.
C0420	<ul> <li>Large paper deck*/paper feed desk*</li> <li>communication problem</li> <li>Communication errors from the communication microcomputer on the main PCB.</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connectors CN3 on the main PCB and the connector on the deck main PCB/desk main PCB, and the continuity across the connector terminals. Repair or replace if necessary.
	No communication: there is no reply after 5 retries. Abnormal communication: a commu-	Defective main PCB.	Replace the main PCB and check for cor- rect operation.
	nication error (parity or checksum er- ror) is detected five times in succes- sion.	Defective deck main PCB/desk main PCB.	Replace the deck main PCB/desk main PCB and check for correct operation.

Code	Contents		Remarks
Code	Contents	Causes	Check procedures/corrective measures
C0440	<ul> <li>Finisher* communication problem</li> <li>Communication errors from the communication microcomputer on the main PCB.</li> <li>No communication: there is no reply</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connectors CN4, CN5 on the main PCB and CN2 on the fin- isher main PCB, and the continuity across the connector terminals. Repair or replace if necessary.
	after 5 retries. Abnormal communication: a commu- nication error (parity or checksum er-	Defective main PCB.	Replace the main PCB and check for cor- rect operation.
	ror) is detected five times in succession.	Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C0450	<ul> <li>Mailbox* communication problem</li> <li>Communication errors from the communication microcomputer on the main PCB.</li> <li>No communication: there is no reply</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connectors CN3 on the main PCB and CN1 on the mailbox main PCB, and the continuity across the connector terminals. Repair or replace if necessary.
	after 5 retries. Abnormal communication: a commu- nication error (parity or checksum er-	Defective main PCB.	Replace the main PCB and check for cor- rect operation.
	ror) is detected five times in succession.	Defective mailbox main PCB.	Replace the mailbox main PCB and check for correct operation.
C0470	<ul> <li>Switchback unit* communication problem</li> <li>Communication errors from the com- munication microcomputer on the</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connectors CN3 on the main PCB and the continuity across the connector terminals. Repair or replace if necessary.
	main PCB. No communication: there is no reply after 5 retries.	Defective main PCB.	Replace the main PCB and check for cor- rect operation.
	Abnormal communication: a commu- nication error (parity or checksum er- ror) is detected five times in succes- sion.	Defective switch- back unit main PCB.	Replace the switchback unit main PCB and check for correct operation.
C0600	DIMM problem The DIMM on the memory PCB does	DIMM installed incorrectly.	Check if the DIMM is inserted into the socket on the main PCB correctly.
	not operate correctly.	Defective DIMM.	Replace the DIMM and check for correct operation.
C0610	<ul><li>Bitmap problem</li><li>There is a problem with the data or address bus of the bitmap DRAM.</li></ul>	Defective main PCB.	Replace the main PCB and check for correct operation.
C0620	<b>Memory input interface problem</b> Reading-in of an image does not com- plete within 10 s of the start of image transmission.	Defective main PCB.	Replace the main PCB and check for correct operation.
C0630	<ul> <li>DMA problem</li> <li>DMA transmission of compressed, decompressed, rotated, relocated or blanked-out image data does not complete within the specified period of time.</li> </ul>	Defective main PCB.	Replace the main PCB and check for correct operation.

Code	Contents		Remarks		
Coue	Contents	Causes	Check procedures/corrective measures		
C1010	• When the upper drawer is inserted, the upper lift limit switch does not turn	Broken gears or couplings of the upper lift motor.	Replace the upper lift motor.		
	on within 6 s of the upper lift motor turning on and the upper lift limit switch does not turn on by turning off	Defective upper lift motor.	Check for continuity across the coil. If none, replace the upper lift motor.		
	<ul><li>retrying twice.</li><li>During copying, the upper lift limit switch does not turn on within 200 ms</li></ul>	Poor contact of the upper lift mo- tor connector ter- minals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.		
	of the upper lift motor turning on.	Defective upper lift limit switch.	Check if CN13-B9 on the main PCB goes low when the upper lift limit switch is turned off. If not, replace the upper lift limit switch.		
		Poor contact of the upper lift limit switch connector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.		
C1020	<ul> <li>Lower lift motor problem</li> <li>When the lower drawer is inserted, the lower lift limit switch does not turn</li> </ul>	Broken gears or couplings of the lower lift motor. Defective lower lift motor.	Replace the lower lift motor.		
	on within 6 s of the lower lift motor turning on and the lower lift limit switch does not turn on by turning off		Check for continuity across the coil. If none, replace the lower lift motor.		
	<ul> <li>the lower lift motor for 200 ms and retrying twice.</li> <li>During copying, the lower lift limit switch does not turn on within 200 ms</li> </ul>	Poor contact of the lower lift motor connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.		
	of the lower lift motor turning on.	Defective lower lift limit switch.	Check if CN13-B15 on the main PCB goes low when the lower lift limit switch is turned off. If not, replace the lower lift limit switch.		
		Poor contact of the lower lift limit switch connector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.		
C1030	<ul> <li>Desk upper lift motor problem</li> <li>When the upper drawer of the paper feed desk* is inserted, the desk upper lift limit switch does not turn on within</li> </ul>	Broken gears or couplings of the desk upper lift motor.	Replace the desk upper lift motor.		
	6 s of the desk upper lift motor turning on and the desk upper lift limit switch does not turn on by turning off the	Defective desk upper lift motor.	Check for continuity across the coil. If none, replace the desk upper lift motor.		
	<ul> <li>does not turn on by turning off the desk upper lift motor for 200 ms and retrying twice.</li> <li>During copying, the desk upper lift</li> </ul>	Poor contact of the desk upper lift motor connector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.		
	200 ms of the desk upper lift motor turning on.	Defective desk upper lift limit switch.	Check if CN1-5 on the desk main PCB goes low when the desk upper lift limit switch is turned off. If not, replace the desk upper lift limit switch.		

Contents Desk upper lift motor problem When the upper drawer of the paper feed desk* is inserted, the desk upper lift limit switch does not turn on within 6 s of the desk upper lift motor turning on and the desk upper lift limit switch does not turn on by turning off the desk upper lift motor for 200 ms and retrying twice. During copying, the desk upper lift limit switch does not turn on within	Causes Poor contact of the desk upper lift limit switch con- nector terminals.	Check procedures/corrective measures Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
<ul> <li>When the upper drawer of the paper feed desk* is inserted, the desk upper lift limit switch does not turn on within 6 s of the desk upper lift motor turning on and the desk upper lift limit switch does not turn on by turning off the desk upper lift motor for 200 ms and retrying twice.</li> <li>During copying, the desk upper lift</li> </ul>	the desk upper lift limit switch con-	tinuity within the connector cable. If none,
200 ms of the desk upper lift motor turning on.		
<ul> <li>Desk lower lift motor problem</li> <li>When the lower drawer of the paper feed desk* is inserted, the desk lower lift limit switch does not turn on within 6 s of the desk lower lift motor turning</li> </ul>	Broken gears of couplings of the desk lower lift mo- tor.	Replace the desk lower lift motor.
on and the desk lower lift limit switch	Defective desk lower lift motor.	Check for continuity across the coil. If none, replace the desk lower lift motor.
<ul><li>desk lower lift motor for 200 ms and retrying twice.</li><li>During copying, the desk lower lift limit switch does not turn on within</li></ul>	Poor contact of the desk lower lift motor connector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
200 ms of the desk lower lift motor turning on.	Defective desk lower lift limit switch.	Check if CN1-7 on the desk main PCB goes low when the desk lower lift limit switch is turned off. If not, replace the desk lower lift limit switch.
	Poor contact of the desk lower lift limit switch con- nector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
<ul> <li>Paper deck motor 1* problem</li> <li>A motor over-current signal is detected continuously for 1 s or longer.</li> </ul>	Paper deck motor 1 does not rotate correctly (the mo- tor is overloaded).	Check the gears and remedy if necessary.
	Paper deck motor 1 connector makes poor con- tact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
<ul> <li>Paper deck motor 2* problem</li> <li>A motor over-current signal is detected continuously for 1 s or longer.</li> </ul>	Paper deck motor 2 does not rotate correctly (the mo- tor is overloaded).	Check the gears and remedy if necessary.
	Paper deck motor 2 connector makes poor con- tact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
	<ul> <li>Desk lower lift motor problem</li> <li>When the lower drawer of the paper feed desk* is inserted, the desk lower lift limit switch does not turn on within 6 s of the desk lower lift motor turning on and the desk lower lift limit switch does not turn on by turning off the desk lower lift motor for 200 ms and retrying twice.</li> <li>During copying, the desk lower lift limit switch does not turn on within 200 ms of the desk lower lift motor turning on.</li> <li>Paper deck motor 1* problem</li> <li>A motor over-current signal is de- tected continuously for 1 s or longer.</li> <li>Paper deck motor 2* problem</li> <li>A motor over-current signal is de-</li> </ul>	Desk lower lift motor problemBroken gears of couplings of the desk lower lift motor turning on and the desk lower lift motor turning on and the desk lower lift motor turning on and the desk lower lift motor for 200 ms and retrying twice.Broken gears of couplings of the desk lower lift motor turning Defective desk lower lift motor.• During copying, the desk lower lift limit switch does not turn on within 200 ms of the desk lower lift motor turning on.Poor contact of the desk lower lift motor connector terminals.• During copying, the desk lower lift limit switch does not turn on within 200 ms of the desk lower lift motor turning on.Poor contact of the desk lower lift motor connector terminals.• Paper deck motor 1* problem • A motor over-current signal is de- tected continuously for 1 s or longer.Paper deck motor 1 does not rotate correctly (the mo- tor is overloaded).Paper deck motor 2* problem • A motor over-current signal is de- tected continuously for 1 s or longer.Paper deck motor 2 does not rotate correctly (the mo- tor is overloaded).Paper deck motor 2* problem • A motor over-current signal is de- tected continuously for 1 s or longer.Paper deck motor 2 does not rotate correctly (the mo- tor is overloaded).Paper deck motor 2* problem • A motor over-current signal is de- tected continuously for 1 s or longer.Paper deck motor 2 does not rotate correctly (the mo- tor is overloaded).Paper deck motor 2 connector makes poor con- tactPaper deck motor 2 does not rotate correctly (the mo- tor is overloaded).

Code	Contonto		Remarks
Code	Contents	Causes	Check procedures/corrective measures
C1120	<ul> <li>Deck right lift* position problem</li> <li>Deck level switch 2 does not turn on within 30 s of paper deck motor 2 turning on.</li> </ul>	Defective deck level switch 2.	Check if CN5-4 on the desk main PCB goes low when desk level switch 2 is turned off. If not, replace desk level switch 2.
		Poor contact of deck level switch 2 connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
		Defective paper deck motor 2.	Check for continuity across the coil. If none, replace paper desk motor 2.
		Poor contact of paper deck motor 2 connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
		The deck right lift does not rise properly.	Check the gears and belts, and remedy if necessary.
C1130	<ul> <li>Deck left lift* position problem</li> <li>Deck level switch 2 does not turn on within 30 s of paper deck motor 2 turning on.</li> </ul>	Defective deck level switch 1.	Check if CN5-7 on the desk main PCB goes low when desk level switch 1 is turned off. If not, replace desk level switch 1.
		Poor contact of deck level switch 1 connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
		Defective paper deck motor 1.	Check for continuity across the coil. If none, replace paper desk motor 1.
		Poor contact of paper deck motor 1 connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
		The deck left lift does not rise properly.	Check the gears and belts, and remedy if necessary.
C1160	Large paper deck*/paper feed desk* sequence problem	Operation start request is sent from the copier to the large paper deck/paper feed desk while paper feed is disabled.	Turn the power off and back on (reset re- quest is sent from the copier to the large paper deck/paper feed desk to cancel op- eration start request).
		Paper feed re- quest is sent from the copier to the large paper deck/ paper feed desk before operation start request.	Turn the power off and back on (reset re- quest is sent from the copier to the large paper deck/paper feed desk to cancel op- eration start request).

Code	Contents		Remarks
Code	Contents	Causes	Check procedures/corrective measures
C1170	Large paper deck* (paper feed desk*) incorrect type problem	Deck/desk for the printer is installed.	Replace the deck/desk fot the copier.
C2000	<ul> <li>Drive motor problem</li> <li>LOCK ALM signal remains high for 1 s, 1 s after the drive motor has turned on.</li> </ul>	Poor contact in the drive motor connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
		Defective drive motor rotation control circuit.	Replace the drive motor.
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
C2500	<ul> <li>Paper feed motor problem</li> <li>LOCK ALM signal remains high for 1 s, 1 s after the paper feed motor has turned on.</li> </ul>	Poor contact in the paper feed motor connector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
		Defective paper feed motor rota- tion control circuit.	Replace the paper feed motor.
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
C2600	<ul> <li>Deck conveying motor*/desk drive motor* problem</li> <li>No pulse is input within 500 ms of the start-up.</li> </ul>	Defective deck conveying motor PCB/desk drive motor PCB.	Replace the deck conveying motor PCB/ desk drive motor PCB and check for cor- rect operation.
	<ul> <li>No pulse is input within 100 ms of the previous pulse input.</li> </ul>	Deck conveying motor /desk drive motor does not rotate correctly (the motor is over- loaded).	Check the gears and remedy if necessary.
		Poor contact in the deck convey- ing motor/desk drive motor con- nector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.

Code	Contents		Remarks
SUGE	Contents	Causes	Check procedures/corrective measures
C3100	<ul> <li>Scanner carriage problem</li> <li>The home position is not correct when the power is turned on or at the start of copying using the bypass ta-</li> </ul>	Poor contact in the connector ter- minals.	Check the connection of connector CN37 on the main PCB and the continuity across the connector terminals. Repair or replace if necessary.
	ble.	Defective scanner home position switch.	Replace the scanner home position switch.
		Defective main PCB or scanner drive PCB.	Replace the main PCB or scanner drive PCB and check for correct operation.
		Defective scanner motor.	Replace the scanner motor.
C3200	<ul> <li>Exposure lamp problem</li> <li>Check the CCD input value for the lighting status of the exposure lamp 100 ms after the exposure lamp is lit</li> </ul>	Poor contact of the connector ter- minals.	Check the connection of connectors CN34 and CN37 on the main PCB, and the conti- nuity across the connector terminals. Re- pair or replace if necessary.
	and the carriage is moved to the shading position. If the exposure lamp does not light, turn off the lamp. After	Defective expo- sure lamp.	Replace the exposure lamp or inverter PCB.
	500 ms, light the lamp again and, a further 500 ms later, check the CCD	Defective main PCB.	Replace the main PCB and check for cor- rect operation.
		Incorrect shading position.	Adjust the position of the contact glass (shading plate). If the problem still occurs, replace the scanner home position switch.
C3300	<ul> <li>Optical system problem</li> <li>After AGC, correct input is not obtained at CCD.</li> </ul>	Poor contact of the connector ter- minals.	Check the connection of connector CN34 on the main PCB, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective main PCB.	Replace the main PCB and check for cor- rect operation.
C4000	<ul> <li>Polygon motor synchronization problem</li> <li>When the polygon motor starts, the motor does not become stable even</li> </ul>	Poor contact in the polygon motor connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
	after 20 s.	Defective polygon motor.	Replace the LSU (see page 1-6-20).
		Defective power source PCB.	Check if 24 V DC is supplied to CN2-1 on the main PCB. If not, replace the power source PCB.
		Defective main PCB.	Check if 24 V DC is output from CN8-10 on the main PCB. If not, replace the main PCB.

Code	Contents		Remarks
Coue	Contents	Causes	Check procedures/corrective measures
C4010	<ul> <li>Polygon motor steady-state problem</li> <li>When high-speed rotation from low- speed rotation is requested, the motor does not become stable even after 20</li> </ul>	Poor contact in the polygon motor connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
	S.	Defective polygon motor.	Replace the LSU (see page 1-6-20).
		Defective power source PCB.	Check if 24 V DC is supplied to CN2-1 on the main PCB. If not, replace the power source PCB.
		Defective main PCB.	Check if 24 V DC is output from CN8-10 or the main PCB. If not, replace the main PCB
C4200	The VTC detects a BD error for 600	Defective laser diode.	Replace the LSU (see page 1-6-20).
	ms after the polygon motor rotation has been stabilized.	Defective polygon motor.	Replace the LSU (see page 1-6-20).
		Defective main PCB.	Replace the main PCB and check for cor- rect operation.
C5300	Broken cleaning lamp wire While the cleaning lamp is on, the bro-	Defective cleaning lamp.	Replace the cleaning lamp.
	ken cleaning lamp wire detection signal is detected for 2 s continuously.	Defective main PCB.	Replace the main PCB and check for cor- rect operation.
C6000	<ul> <li>Broken fixing heater wire</li> <li>After secondary stabilization, detected temperature of the fixing thermistor is lower than 100 °C/212 °F</li> </ul>	Poor contact in the fixing unit thermistor con- nector terminals.	Check the connection of connector CN10 on the main PCB and the continuity across the connector terminals. Repair or replace if necessary.
	<ul> <li>When the fixing heater is turned on, the output voltage of terminal CN2-1 of the power supply PCB is lower than 0.2 V.</li> </ul>	Fixing unit ther- mistor installed incorrectly.	Check and reinstall if necessary.
	• 7 s after the fixing heater is turned on, the output voltage of terminal CN2-1	Fixing unit ther- mostat triggered.	Check for continuity. If none, replace the fixing unit thermostat.
	of the power supply PCB is lower than 0.2 V. • When the output voltage of terminal CN 2-1 of the power supply PCB is	Fixing unit heater M or S installed incorrectly.	Check and reinstall if necessary.
	<ul> <li>checked every 45 s during continuous copying, the voltage becomes lower than 0.2 V.</li> <li>When the fixing temperature becomes lower than 140 °C/284 °F during copying, the output voltage of terminal CN 2-1 of the power supply PCB is checked and the voltage is lower than 0.2 V.</li> </ul>	Broken fixing unit heater M or S wire.	Check for continuity. If none, replace the fixing unit heater M or S (see page 1-6-38)
C6020	Abnormally high fixing unit thermis- tor temperature	Shorted fixing unit thermistor.	Measure the resistance. If it is 0 $\Omega$ , replace the fixing unit thermistor.
	<ul> <li>The fixing thermistor detects tempera- ture 240 °C/464 °F or higher.</li> </ul>	Broken fixing unit heater control cir- cuit on the power source PCB.	Replace the power source PCB.

Abnormally low fixing unit thermis- tor temperature • The fixing thermistor detects tempera- ture lower than 100 °C/212 °F for 10 s. • When fixing heater M is on, the tem- perature of the fixing thermistor is lower than 40 °C/104 °F and contin- ues to drop for 24 s. (If the tempera- ture in the copier is 10 °C/50 °F or less when power is turned on.) • When fixing heater M is on, the tem- perature of the fixing thermistor is lower than 40 °C/104 °F and contin- ues to drop for 14 s. (If the tempera- ture in the copier is higher than 10 °C/ 50 °F when power is turned on.) • Fixing unit connector insertion prob- lem • Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.	Causes Poor contact in the fixing unit thermistor con- nector terminals. Broken fixing unit thermistor wire. Fixing unit ther- mistor installed incorrectly. Fixing unit ther- mostat triggered. Fixing unit heater M or S installed incorrectly. Broken fixing unit heater M or S wire. Fixing unit con- nector inserted incorrectly. Defective fixing unit connector.	Check procedures/corrective measures         Check the connection of connector CN10         on the main PCB and the continuity across         the connector terminals. Repair or replace         if necessary.         Measure the resistance. If it is ∞ Ω, replace         the fixing unit thermistor.         Check and reinstall if necessary.         Check for continuity. If none, replace the         fixing unit thermostat.         Check and reinstall if necessary.         Check for continuity. If none, replace the         fixing unit thermostat.         Check for continuity. If none, replace the         fixing unit theater M or S.         Reinsert the fixing unit connector if necessary.         Replace the fixing unit.
<ul> <li>tor temperature</li> <li>The fixing thermistor detects temperature lower than 100 °C/212 °F for 10 s.</li> <li>When fixing heater M is on, the temperature of the fixing thermistor is lower than 40 °C/104 °F and continues to drop for 24 s. (If the temperature in the copier is 10 °C/50 °F or less when power is turned on.)</li> <li>When fixing heater M is on, the temperature of the fixing thermistor is lower than 40 °C/104 °F and continues to drop for 14 s. (If the temperature of the fixing thermistor is lower than 40 °C/104 °F and continues to drop for 14 s. (If the temperature in the copier is higher than 10 °C/50 °F when power is turned on.)</li> <li>Fixing unit connector insertion problem</li> <li>Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.</li> </ul>	the fixing unit thermistor con- nector terminals. Broken fixing unit thermistor wire. Fixing unit ther- mistor installed incorrectly. Fixing unit ther- mostat triggered. Fixing unit heater M or S installed incorrectly. Broken fixing unit heater M or S wire. Fixing unit con- nector inserted incorrectly. Defective fixing	on the main PCB and the continuity across the connector terminals. Repair or replace if necessary. Measure the resistance. If it is $\infty \Omega$ , replace the fixing unit thermistor. Check and reinstall if necessary. Check for continuity. If none, replace the fixing unit thermostat. Check and reinstall if necessary. Check for continuity. If none, replace the fixing unit thermostat. Check for continuity. If none, replace the fixing unit heater M or S. Reinsert the fixing unit connector if neces- sary.
<ul> <li>When fixing heater M is on, the temperature of the fixing thermistor is lower than 40 °C/104 °F and continues to drop for 24 s. (If the temperature in the copier is 10 °C/50 °F or less when power is turned on.)</li> <li>When fixing heater M is on, the temperature of the fixing thermistor is lower than 40 °C/104 °F and continues to drop for 14 s. (If the temperature in the copier is higher than 10 °C/ 50 °F when power is turned on.)</li> <li>Fixing unit connector insertion problem</li> <li>Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.</li> </ul>	thermistor wire. Fixing unit ther- mistor installed incorrectly. Fixing unit ther- mostat triggered. Fixing unit heater M or S installed incorrectly. Broken fixing unit heater M or S wire. Fixing unit con- nector inserted incorrectly. Defective fixing	the fixing unit thermistor. Check and reinstall if necessary. Check for continuity. If none, replace the fixing unit thermostat. Check and reinstall if necessary. Check for continuity. If none, replace the fixing unit heater M or S. Reinsert the fixing unit connector if neces- sary.
lower than 40 °C/104 °F and contin- ues to drop for 24 s. (If the tempera- ture in the copier is 10 °C/50 °F or less when power is turned on.) • When fixing heater M is on, the tem- perature of the fixing thermistor is lower than 40 °C/104 °F and contin- ues to drop for 14 s. (If the tempera- ture in the copier is higher than 10 °C/ 50 °F when power is turned on.) <b>Fixing unit connector insertion prob- lem</b> • Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.	mistor installed incorrectly. Fixing unit ther- mostat triggered. Fixing unit heater M or S installed incorrectly. Broken fixing unit heater M or S wire. Fixing unit con- nector inserted incorrectly. Defective fixing	Check for continuity. If none, replace the fixing unit thermostat. Check and reinstall if necessary. Check for continuity. If none, replace the fixing unit heater M or S. Reinsert the fixing unit connector if neces- sary.
<ul> <li>When fixing heater M is on, the temperature of the fixing thermistor is lower than 40 °C/104 °F and continues to drop for 14 s. (If the temperature in the copier is higher than 10 °C/ 50 °F when power is turned on.)</li> <li>Fixing unit connector insertion problem</li> <li>Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.</li> </ul>	mostat triggered. Fixing unit heater M or S installed incorrectly. Broken fixing unit heater M or S wire. Fixing unit con- nector inserted incorrectly. Defective fixing	fixing unit thermostat. Check and reinstall if necessary. Check for continuity. If none, replace the fixing unit heater M or S. Reinsert the fixing unit connector if neces- sary.
lower than 40 °C/104 °F and contin- ues to drop for 14 s. (If the tempera- ture in the copier is higher than 10 °C/ 50 °F when power is turned on.) Fixing unit connector insertion prob- lem • Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.	M or S installed incorrectly. Broken fixing unit heater M or S wire. Fixing unit con- nector inserted incorrectly. Defective fixing	Check for continuity. If none, replace the fixing unit heater M or S. Reinsert the fixing unit connector if necessary.
<ul> <li>Fixing unit connector insertion problem</li> <li>Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.</li> </ul>	heater M or S wire. Fixing unit con- nector inserted incorrectly. Defective fixing	fixing unit heater M or S. Reinsert the fixing unit connector if neces- sary.
<ul> <li>Absence of the fixing unit is detected continuously for 1500 ms while there is no error on the copier.</li> </ul>	nector inserted incorrectly. Defective fixing	sary.
is no error on the copier.	-	Replace the fixing unit.
Due les en finite en consistate en entre		
<ul> <li>Broken fixing unit thermistor wire</li> <li>The fixing temperature remains at 0 °C/32 °F for 30 s continuously when the fixing heater is on.</li> </ul>	Poor contact in the fixing unit thermistor con- nector terminals.	Check the connection of connector CN10 on the main PCB and the continuity across the connector terminals. Repair or replace if necessary.
	Broken fixing unit thermistor wire.	Measure the resistance. If it is $\infty \Omega$ , replace the fixing unit thermistor.
<ul><li>Toner sensor problem</li><li>While the toner container sensor is</li></ul>	Defective toner sensor.	Replace the toner sensor.
on, the toner sensor in the developing unit does not turn on after the toner sensor turns off and toner is replen- ished from the toner container.	Poor contact in the toner sensor connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
	Defective toner container sensor.	Replace the toner container sensor.
	Defective toner container.	Replace the toner container.
Image formation unit connector in- sertion problem • Absence of the image formation unit	Image formation unit connector in- serted incorrectly.	Reinsert the image formation unit connector if necessary.
is detected continuously for 1500 ms while there is no error on the copier.	Defective image formation unit connector.	Replace the image formation unit.
· In so	While the toner container sensor is on, the toner sensor in the developing unit does not turn on after the toner sensor turns off and toner is replen- ished from the toner container.	oner sensor problemDefective toner sensor.While the toner container sensor is on, the toner sensor in the developing unit does not turn on after the toner sensor turns off and toner is replen- ished from the toner container.Defective toner sensor connector termi- nals.Defective toner container.Defective toner connector termi- nals.Defective toner container sensor.Defective toner container sensor.Defective toner container sensor.Defective toner container sensor.Defective toner container.Defective toner container sensor.Defective toner container.Defective toner container.Image formation unit is detected continuously for 1500 ms while there is no error on the copier.Image formation unit

Code	Contents		Remarks
Code	Contents	Causes	Check procedures/corrective measures
C7410	Drum unit connector insertion prob- lem • Absence of the drum unit is detected	Drum unit connec- tor inserted incor- rectly.	Reinsert the drum unit connector if neces- sary.
	continuously for 1500 ms while there is no error on the copier.	Defective drum unit connector.	Replace the drum unit.
C7800	<ul> <li>Broken external temperature thermistor wire</li> <li>The input voltage is above 4.5 V.</li> </ul>	Poor contact in the humidity sen- sor PCB connec- tor terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
		Defective external temperature ther- mistor.	Replace the humidity sensor PCB.
C7810	<ul> <li>Short-circuited external temperature thermistor</li> <li>The input voltage is below 1.0 V.</li> </ul>	Poor contact in the humidity sen- sor PCB connec- tor terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
		Defective external temperature ther-	Replace the humidity sensor PCB.
C8010	<ul> <li>Finisher* paper conveying motor problem</li> <li>The paper conveying motor lockup signal is detected for 0.5 s or longer.</li> </ul>	Poor contact in the paper convey- ing motor connec- tor terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
		The paper con- veying motor mal- functions.	Replace the paper conveying motor and check for correct operation.
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8030	<ul> <li>Finisher* paper conveying belt problem</li> <li>An on-to-off or off-to-on state change</li> </ul>	The paper con- veying belt is out of phase.	Adjust the paper conveying belt so that it is in phase and check for correct operation.
	of the paper conveying belt home po- sition sensor is not detected within 2 s of the paper conveying belt clutch turning on.	The paper con- veying belt clutch malfunctions.	Replace the paper conveying belt clutch and check for correct operation.
		The paper con- veying belt home position sensor malfunctions.	Replace the paper conveying belt home position sensor and check for correct op- eration.
		The paper con- veying belt home position sensor connector makes poor contact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
		The internal tray is incorrectly in- serted.	Check whether the internal tray unit or front cover catches are damaged.

Codo	Contents		Remarks		
Code	Contents	Causes	Check procedures/corrective measures		
C8140	<ul> <li>Finisher* tray elevation motor problem</li> <li>The sort tray is not detected in the home position within 30 s of the start</li> </ul>	Poor contact in the tray elevation motor connector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.		
	of the tray elevation motor rotation.	The tray elevation motor malfunc- tions.	Replace the tray elevation motor and check for correct operation.		
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.		
C8170	<ul><li>tor problem</li><li>If the front side registration home position sensor is on in initialization, the</li></ul>	The front side reg- istration motor connector makes poor contact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.		
	<ul> <li>sensor does not turn off within 570</li> <li>ms of starting initialization.</li> <li>If the front side registration home position sensor is off in initialization, the</li> </ul>	The front side reg- istration motor malfunctions.	Replace the front side registration motor and check for correct operation.		
	sensor does not turn on within 3180 ms of starting initialization.	The front side reg- istration home po- sition sensor con- nector makes poor contact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.		
		The front side reg- istration home po- sition sensor mal- functions.	Replace the front side registration home position sensor and check for correct op- eration.		
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.		
C8180	<ul> <li>Finisher* rear side registration motor problem</li> <li>If the rear side registration home position sensor is on in initialization, the sensor is on in initialization, the sensor is on the sensor is on</li></ul>	The rear side reg- istration motor connector makes poor contact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.		
	<ul> <li>sensor does not turn off within 570 ms of starting initialization.</li> <li>If the rear side registration home position sensor is off in initialization, the</li> </ul>	The rear side reg- istration motor malfunctions.	Replace the rear side registration motor and check for correct operation.		
	sensor does not turn on within 2880 ms of starting initialization.	The rear side reg- istration home po- sition sensor con- nector makes poor contact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.		
		The rear side reg- istration home po- sition sensor mal- functions.	Replace the rear side registration home position sensor and check for correct operation.		
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.		

Code	Contents		Remarks
Coue	Contents	Causes	Check procedures/corrective measures
C8190	<ul> <li>Finisher* trailing edge registration motor problem</li> <li>If the trailing edge registration home position sensor is on in initialization,</li> </ul>	The trailing edge registration motor connector makes poor contact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
	<ul> <li>If the trailing edge registration home position sensor is off in initialization, the sensor does not turn on within 4550 ms of starting initialization.</li> </ul>	The trailing edge registration motor malfunctions.	Replace the trailing edge registration motor and check for correct operation.
		The trailing edge registration home position sensor connector makes poor contact.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.
		The trailing edge registration home position sensor malfunctions.	Replace the trailing edge registration home position sensor and check for correct op- eration.
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8210	<ul> <li>Finisher* front stapler problem</li> <li>The front stapler home position sensor does not change state from non-</li> </ul>	The front stapler connector makes poor contact.	Reinsert the connector. Also check for con tinuity within the connector cable. If none, remedy or replace the cable.
	<ul> <li>detection to detection within 200 ms of the start of front stapler motor counterclockwise (forward) rotation.</li> <li>During initialization, the front stapler home position sensor does not change state from non-detection to detection within 600 ms of the start of front stapler motor clockwise (re-</li> </ul>	The front stapler malfunctions. a) The front sta- pler is blocked with a staple. b) The front sta- pler is broken.	<ul><li>a) Remove the front stapler cartridge, and check the cartridge and the stapling section of the stapler.</li><li>b) Replace the front stapler and check for correct operation.</li></ul>
	verse) rotation.	Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8220	<ul> <li>Finisher* rear stapler problem</li> <li>The rear stapler home position sensor does not change state from non-de-</li> </ul>	The rear stapler connector makes poor contact.	Reinsert the connector. Also check for con tinuity within the connector cable. If none, remedy or replace the cable.
	<ul> <li>tection to detection within 200 ms of the start of rear stapler motor counterclockwise (forward) rotation.</li> <li>During initialization, the rear stapler home position sensor does not change state from non-detection to detection within 600 ms of the start of rear stapler motor clockwise (reverse)</li> </ul>	The rear stapler malfunctions. a) The rear sta- pler is blocked with a staple. b) The rear sta- pler is broken.	<ul> <li>a) Remove the front stapler cartridge, and check the cartridge and the stapling section of the stapler.</li> <li>b) Replace the front stapler and check for correct operation.</li> </ul>
	rotation.	Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8300	Booklet stitcher* paper ejection mo- tor problem	A problem is de- tected with the paper ejection motor.	See the booklet stitcher service manual.
C8310	Booklet stitcher* elevation motor problem	A problem is de- tected with the elevation motor.	See the booklet stitcher service manual.

Contents         klet stitcher* rear jog motor         blem         klet stitcher* front jog motor         blem         klet stitcher* front jog motor         klet stitcher* staple motor prob-         klet stitcher* batch processing         or problem         klet stitcher* stapler shift motor         blem         klet stitcher* paddle motor prob-         kklet stitcher* paddle motor prob-         kklet stitcher* folding problem	CausesA problem is de- tected with the rear jog motor.A problem is de- tected with the front jog motor.A problem is de- tected with the staple motor.A problem is de- tected with the batch processing motor.A problem is de- tected with the stapler shift mo- tor.A problem is de- tected with the stapler shift mo- tor.A problem is de- tected with the stapler shift mo- tor.A problem is de- tected with the paddle motor.A problem is de- tected with the paddle motor.A problem is de- tected with the paddle motor.	Check procedures/corrective measures         See the booklet stitcher service manual.         See the booklet stitcher service manual.
klet stitcher* front jog motor olem klet stitcher* staple motor prob- klet stitcher* batch processing or problem klet stitcher* stapler shift motor olem	<ul> <li>tected with the rear jog motor.</li> <li>A problem is detected with the front jog motor.</li> <li>A problem is detected with the staple motor.</li> <li>A problem is detected with the batch processing motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the paddle motor.</li> </ul>	See the booklet stitcher service manual.
klet stitcher* staple motor prob- klet stitcher* batch processing or problem klet stitcher* stapler shift motor olem	<ul> <li>tected with the front jog motor.</li> <li>A problem is detected with the staple motor.</li> <li>A problem is detected with the batch processing motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> </ul>	See the booklet stitcher service manual.
klet stitcher* batch processing or problem klet stitcher* stapler shift motor olem	<ul> <li>tected with the staple motor.</li> <li>A problem is detected with the batch processing motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the stapler shift motor.</li> <li>A problem is detected with the paddle motor.</li> <li>A problem is detected with the paddle motor.</li> </ul>	See the booklet stitcher service manual.         See the booklet stitcher service manual.         See the booklet stitcher service manual.
or problem klet stitcher* stapler shift motor blem klet stitcher* paddle motor prob-	tected with the batch processing motor. A problem is de- tected with the stapler shift mo- tor. A problem is de- tected with the paddle motor. A problem is de-	See the booklet stitcher service manual. See the booklet stitcher service manual.
blem klet stitcher* paddle motor prob-	tected with the stapler shift mo- tor. A problem is de- tected with the paddle motor. A problem is de-	See the booklet stitcher service manual.
	tected with the paddle motor.	
klet stitcher* folding problem		See the booklet stitcher convice manual
	folding sensor.	
klet stitcher* backup RAM data blem	A backup RAM data error is de- tected.	See the booklet stitcher service manual.
klet stitcher* incorrect type blem	An incorrect type error is detected.	See the booklet stitcher service manual.
klet stitcher* punch motor prob-	A problem is de- tected with the punch motor.	See the booklet stitcher service manual.
klet stitcher* shift motor prob-	A problem is de- tected with the shift motor.	See the booklet stitcher service manual.
klet stitcher* punch communica- problem	A problem is de- tected with the punch communi- cation.	See the booklet stitcher service manual.
klet stitcher* punch sensor prob-	A problem is de- tected with the punch sensor.	See the booklet stitcher service manual.
klet stitcher* side punch sensor blem	A problem is de- tected with the side punch sen- sor.	See the booklet stitcher service manual.
k	let stitcher* punch sensor prob- let stitcher* side punch sensor	punch communi- cation.let stitcher* punch sensor prob- let stitcher* side punch sensorA problem is de- tected with the punch sensor.let stitcher* side punch sensor emA problem is de- tected with the side punch sen-

Oc d-	0		Remarks
Code	Contents	Causes	Check procedures/corrective measures
C8460	Booklet stitcher* punch backup RAM data problem	A problem is de- tected with the punch backup RAM data.	See the booklet stitcher service manual.
C8470	Booklet stitcher* punch dust sensor problem	A problem is de- tected with the punch dust sen- sor.	See the booklet stitcher service manual.
C8480	Booklet stitcher* broken punch power source wire problem	A broken punch power source wire problem is de- tected.	See the booklet stitcher service manual.
C8500	Mailbox* drive motor problem • While the mailbox drive motor is driv- ing, synchronization signals do not synchronize continually for 464 ms (motor lockup).	Defective mailbox drive motor or mailbox main PCB.	Run a simulation of the mailbox (communi- cation test mode, see page 3-2-2 of the mailbox service manual). If there is any problem with the communication, replace the mailbox drive motor or the mailbox main PCB and check for correct operation.

#### 1-5-3 Image formation problems

(1) No image appears (entirely white).



See page 1-5-43

(5) A white line appears longitudinally.



See page 1-5-45

(9) Black dots appear on the image.



See page 1-5-47 (13) Paper creases.

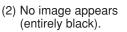


See page 1-5-48

(17) Image is out of focus.



See page 1-5-49





See page 1-5-44

(6) A black line appears longitudinally.



See page 1-5-46 (10) Image is blurred.



See page 1-5-47 (14) Offset occurs.



See page 1-5-48

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



See page 1-5-50

(3) Image is too light.



See page 1-5-45

(7) A black line appears laterally.



See page 1-5-46

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

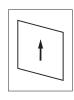


See page 1-5-47 (15) Image is partly missing.



See page 1-5-49

(19) Image is not square.



See page 1-5-50

(4) Background is visible.



See page 1-5-45

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



See page 1-5-46

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



See page 1-5-48 (16) Fixing is poor.



See page 1-5-49

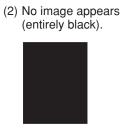
(1) No image appears (entirely white).

- Causes
   No transfer charging.
   No LSU laser is output.
   No developing bias is output.

Causes	Check procedures/corrective measures
1. No transfer charging.	
A. The connector terminals of the high-voltage transformer PCB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
B. Defective main PCB.	Check if CN7-10 on the main PCB goes low when maintenance item U101 is run. If not, replace the main PCB.
C. Defective high-voltage transformer PCB.	Check if transfer charging takes place when CN1-10 on the high- voltage transformer PCB goes low while maintenance item U101 is run. If not, replace the high-voltage transformer PCB.
2. No LSU laser is output.	
A. Defective laser scanner unit.	Replace the laser scanner unit.
B. Defective main PCB.	Check if CN8-4 on the main PCB goes low when maintenance item U101 is run. If not, replace the main PCB.
3. No developing bias is output.	
A. Defective main PCB.	Check if CN7-1 on the main PCB goes low when maintenance item U101 is run. If not, replace the main PCB.
B. Defective high-voltage transformer PCB.	Check if developing bias voltage is output when the main PCB is normal while maintenance item U101 is run. If not, replace the high- voltage transformer PCB.

#### Causes

No main charging.
 Exposure lamp fails to light.



Causes	Check procedures/corrective measures
1. No main charging.	
A. Broken main charger wire.	Replace the main charger unit.
B. Leaking main charger housing.	Clean the main charger wire, grid and shield.
C. The connector terminals of the high-voltage transformer PCB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
D. Defective main PCB.	Check if CN7-3 on the main PCB goes low when maintenance item U100 is run. If not, replace the main PCB.
E. Defective high-voltage transformer PCB.	Check if main charging takes place when CN1-3 on the high-voltage transformer PCB goes low while maintenance item U100 is run. If not, replace the high-voltage transformer PCB.
2. Exposure lamp fails to light.	
A. The connector terminals of the exposure lamp make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
B. Defective inverter PCB.	Check if the exposure lamp lights when CN1-1 and 1-2 on the inverter PCB go low while maintenance item U061 is run. If not, replace the inverter PCB.
C. Defective scanner drive PCB.	Check if the exposure lamp lights when CN1-3 on the scanner drive PCB goes low while maintenance item U061 is run. If not, replace the scanner drive PCB.
D. Defective main PCB.	Check if CN37-3 on the main PCB goes low when maintenance item U061 is run. If not, replace the main PCB.

- Causes
- 1. Insufficient toner.

- Deteriorated toner.
   The transfer voltage is not output properly.
   Dirty main charger wire.

Causes	Check procedures/corrective measures
1. Insufficient toner.	If the display shows the message requesting toner replenishment, replace the cartridge.
2. Deteriorated toner.	Perform the drum refresh operation.
3. The transfer voltage is not output properly.	Clean or check the transfer roller.
4. Dirty main charger.	Clean the main charger or, if it is extremely dirty, replace it.

#### (4) Background is visible. Causes



- 1. Deteriorated toner.
- 2. Dirty main charger.

Causes	Check procedures/corrective measures	
1. Deteriorated toner.	Perform the drum refresh operation.	
2. Dirty main charger wire.	Clean the wire or, if it is extremely dirty, replace it.	

(5) A white line appears longitudinally.

- Foreign matter in the developing unit.
   Dirty shading plate.



Causes	Check procedures/corrective measures
1. Foreign matter in the developing unit.	Check if the magnetic brush is formed uniformly. Replace the developing unit if any foreign matter.
2. Dirty shading plate.	Clean the shading plate.

(6) A black line appears longitudinally.



#### Causes

- 1. Dirty contact glass.
- 2. Dirty or flawed drum. 3. Deformed or worn cleaning blade.
- 4. Dirty scanner mirror.
- 5. Dirty main charger wire.

Causes	Check procedures/corrective measures
1. Dirty contact glass.	Clean the contact glass.
2. Dirty or flawed drum.	Perform the drum refresh operation. If the drum is flawed, replace the drum unit.
3. Deformed or worn cleaning blade.	Replace the cleaning blade.
4. Dirty scanner mirror.	Clean the scanner mirror.
5. Dirty main charger wire.	Clean the main charger wire or, if it is extremely dirty, replace it.

(7) A black line appears laterally.



#### Causes

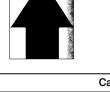
- 1. Flawed drum.
- 2. Dirty developing section.
- Leaking main charger housing.
   Leaking separation electrode.

Causes	Check procedures/corrective measures
1. Flawed drum.	Replace the drum unit.
2. Dirty developing section.	Clean any part contaminated with toner in the developing section.
3. Leaking main charger housing.	Clean the main charger wire, grid and shield.
4. Leaking separation electrode.	Clean the separation electrode.

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



- 1. Dirty main charger wire.
- 2. Defective exposure lamp.



Causes	Check procedures/corrective measures
1. Dirty main charger wire.	Clean the wire or, if it is extremely dirty, replace it.
2. Defective exposure lamp.	Check if the exposure lamp light is distributed evenly. If not, replace the exposure lamp (see page 1-6-25).

(9) Black dots appear on the image.

# 1

#### Causes

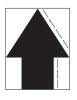
- 1. Dirty or flawed drum.
- Dirty of nawed dram.
   Dirty contact glass.
   Deformed or worn cleaning blade.
   Dirty drum separation claws.
   Dirty heat roller separation claws.

Causes	Check procedures/corrective measures
1. Dirty or flawed drum.	Perform the drum refresh operation. If the drum is flawed, replace the drum unit.
2. Dirty contact glass.	Clean the contact glass.
3. Deformed or worn cleaning blade.	Replace the cleaning blade.
4. Dirty drum separation claws.	Clean the drum separation claws.
5. Dirty the heat roller separation claws.	Clean the heat roller separation claws.

(10) Image is blurred.

#### Causes

- 1. Scanner moves erratically.
- 2. Deformed press roller.
- 3. Paper conveying section drive problem.



Causes	Check procedures/corrective measures
1. Scanner moves erratically.	Check if there is any foreign matter on the front and rear scanner rails. If any, remove it.
2. Deformed press roller.	Replace the press roller (see page 1-6-63).
3. Paper conveying section drive problem.	Check the gears and belts and, if necessary, grease them.

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

- 1. Misadjusted leading edge registration.
- 2. Misadjusted scanner leading edge
- registration.



Causes	Check procedures/corrective measures
1. Misadjusted leading edge registration.	Readjust the leading edge registration (see pages 1-6-17).
2. Misadjusted scanner leading edge registration.	Readjust the scanner leading edge registration (see page 1-6-17).

#### 2DF

(12) The leading edge of the image is sporadi-cally misaligned with the original.

#### Causes

1. Feed clutch, paper feed clutch, bypass paper feed clutch or registration clutch installed or operating incorrectly.



Causes	Check procedures/corrective measures
1. Feed clutch, paper feed clutch, bypass paper feed clutch or registration clutch installed or operating incorrectly.	Check the installation position and operation of the feed clutch, paper feed clutch, bypass paper feed clutch and registration clutch. If any of them operates incorrectly, replace it.

(13) Paper creases.

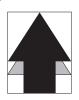
#### Causes

- 1. Paper curled.
- 2. Paper damp.
- a Defective pressure springs.
   Defective separation.
   Defective fans.

Causes	Check procedures/corrective measures
1. Paper curled.	Check the paper storage conditions.
2. Paper damp.	Check the paper storage conditions.
3. Defective pressure springs.	Replace the pressure springs.
4. Defective separation.	Check the drum separation claws and heat roller separation claws.
5. Defective fans.	Replace the fans.

(14) Offset occurs.

- 1. Defective cleaning blade.
- 2. Defective fixing section.



Causes	Check procedures/corrective measures
1. Defective cleaning blade.	Replace the cleaning blade (see page 1-6-46).
2. Defective fixing section.	Replace the heat roller and press roller.

#### (15) Image is partly missing.

- Causes
- Paper damp.
   Paper creased.
   Drum condensation.
   Flawed drum.



Causes	Check procedures/corrective measures
1. Paper damp.	Check the paper storage conditions.
2. Paper creased.	Replace the paper.
3. Drum condensation.	Perform the drum refresh operation.
4. Flawed drum.	Perform the drum refresh operation. If the drum is flawed, replace the drum unit.

(16) Fixing is poor.

- Causes

- Wrong paper.
   Defective pressure springs.
   Flawed press roller.
   Defective fixing heater S.

Causes	Check procedures/corrective measures
1. Wrong paper.	Check if the paper meets specifications.
2. Defective pressure springs.	Replace the pressure springs.
3. Flawed press roller.	Replace the press roller (see page 1-6-63).
4. Defective fixing heater S.	Replace the fixing heater S (see page 1-6-63).

(17) Image is out of focus.

- Defective image scanning unit.
   Drum condensation.



Causes	Check procedures/corrective measures
1. Defective image scanning unit.	Replace the image scanning unit (see page 1-6-30).
2. Drum condensation.	Perform the drum refresh operation.

## (18) Image center does not Causes

- align with the original center.
   1. Misadjusted center line of image printing.

   2. Misadjusted scanner center line.
   3. Original placed incorrectly.



Causes	Check procedures/corrective measures
1. Misadjusted center line of image printing.	Readjust the center line of image printing (see page 1-6-19).
2. Misadjusted scanner center line.	Readjust the scanner center line (see page 1-6-37).
3. Original placed incorrectly.	Place the original correctly.

(19) Image is not square.

- Laser scanner unit positioned incorrectly.
   Image scanning unit positioned incorrectly.



Causes	Check procedures/corrective measures
1. Laser scanner unit positioned incorrectly.	Adjust the installation position of the laser scanner unit (see page 1-6-30).
2. Image scanning unit positioned incorrectly.	Adjust the installation position of the image scanning unit (see page 1-6-30).

Problem	Causes	Check procedures/corrective measures
(1) The machine does not operate when the main switch is turned on.	No electricity at the power outlet.	Measure the input voltage.
	The power cord is not plugged in properly.	Check the contact between the power plug and the outlet.
	The front cover, conveying cover and/or side cover are/is not closed com- pletely.	Check the front cover, conveying cover and side cover.
	Broken power cord.	Check for continuity. If none, replace the cord.
	Defective main switch.	Check for continuity across the contacts. If none, replace the main switch.
	Blown fuse in the power source PCB.	Check for continuity. If none, remove the cause of blowing and replace the fuse.
	Defective safety switch 1 or 2.	Check for continuity across the contacts of each switch. If none, replace the switch.
	Defective power source PCB.	With AC present, check for 24 V DC at CN1-1 and 5 V DC at CN1-5 on the power source PCB. If none, replace the power source PCB.
(2) The drive motor	Poor contact in the drive motor connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
does not operate (C2000).	Broken drive motor gear.	Check visually and replace the drive motor if necessary.
(02000).	Defective drive motor.	Run maintenance item U030 and check if the drive motor oper- ates when CN11-9 on the main PCB goes low. If not, replace the drive motor.
	Defective main PCB.	Run maintenance item U030 and check if CN11-9 on the main PCB goes low. If not, replace the main PCB.
(3) The paper feed mo- tor does not operate	Poor contact in the paper feed motor connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
(C2500).	Broken paper feed motor gear.	Check visually and replace the paper feed motor if necessary.
	Defective paper feed mo- tor.	Run maintenance item U030 and check if the paper feed motor operates when CN11-10 on the main PCB goes low. If not, re- place the paper feed motor.
	Defective main PCB.	Run maintenance item U030 and check if CN11-10 on the main PCB goes low. If not, replace the main PCB.
(4) The eject motor	Poor contact in the eject motor connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
does not operate.	Broken eject motor gear.	Check visually and replace the eject motor if necessary.
	Defective eject motor.	Run maintenance item U030 and check if the eject motor oper- ates when CN16-B11, CN16-B12, CN16-B13 and CN16-B14 on the main PCB go low. If not, replace the eject motor.
	Defective eject switch.	Run maintenance item U031 and turn the eject switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.

Problem	Causes	Check procedures/corrective measures
(4) The eject motor does not operate.	Defective main PCB.	Run maintenance item U030 and check if CN16-B11, CN16- B12, CN16-B13 and CN16-B14 on the main PCB go low. If not, replace the main PCB.
(5) The upper lift motor does not operate (C1010).	Broken upper lift motor coil.	Check for continuity across the coil. If none, replace the upper lift motor.
	Poor contact in the upper lift motor connector termi- nals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Check if 24 V DC is output across CN13-A17 on the main PCB right after the upper drawer is installed. If not, replace the main PCB.
(6) The lower lift motor	Broken lower lift motor coil.	Check for continuity across the coil. If none, replace the lower lift motor.
does not operate (C1020).	Poor contact in the lower lift motor connector termi- nals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Check if 24 V DC is output across CN13-B7 on the main PCB right after the lower drawer is installed. If not, replace the main PCB.
(7) The scanner motor	Broken scanner motor coil.	Check for continuity across the coil. If none, replace the scanner motor.
does not operate.	Poor contact in the scan- ner motor connector termi- nals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
(8) Cooling fan motor 1	Broken cooling fan motor 1 coil.	Check for continuity across the coil. If none, replace cooling fan motor 1.
does not operate.	Poor contact in the cooling fan motor 1 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(9) Cooling fan motor 2	Broken cooling fan motor 2 coil.	Check for continuity across the coil. If none, replace cooling fan motor 2.
does not operate.	Poor contact in the cooling fan motor 2 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(10) Cooling fan motor 3	Broken cooling fan motor 3 coil.	Check for continuity across the coil. If none, replace cooling fan motor 3.
does not operate.	Poor contact in the cooling fan motor 3 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(11) Cooling fan motor 4 does not operate.	Broken cooling fan motor 4 coil.	Check for continuity across the coil. If none, replace cooling fan motor 4.
	Poor contact in the cooling fan motor 4 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.

Problem	Causes	Check procedures/corrective measures
(12) Cooling fan motor 5 does not operate.	Broken cooling fan motor 5 coil.	Check for continuity across the coil. If none, replace cooling fan motor 5.
	Poor contact in the cooling fan motor 5 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(13) Cooling fan motor 6 does not operate.	Broken cooling fan motor 6 coil.	Check for continuity across the coil. If none, replace cooling fan motor 6.
	Poor contact in the cooling fan motor 6 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(14) Cooling fan motor 7	Broken cooling fan motor 7 coil.	Check for continuity across the coil. If none, replace cooling fan motor 7.
does not operate.	Poor contact in the cooling fan motor 7 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(15) Cooling fan motor 8	Broken cooling fan motor 8 coil.	Check for continuity across the coil. If none, replace cooling fan motor 8.
does not operate.	Poor contact in the cooling fan motor 8 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(16) Cooling fan motor 9	Broken cooling fan motor 9 coil.	Check for continuity across the coil. If none, replace cooling fan motor 9.
does not operate.	Poor contact in the cooling fan motor 9 connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, repair or replace the cable.
(17) The upper paper	Broken upper paper feed clutch coil.	Check for continuity across the coil. If none, replace the upper paper feed clutch.
feed clutch does not operate.	Poor contact in the upper paper feed clutch connec- tor terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN16-B1 on the main PCB goes low. If not, replace the main PCB.
(18) The lower paper	Broken lower paper feed clutch coil.	Check for continuity across the coil. If none, replace the lower paper feed clutch.
feed clutch does not operate.	Poor contact in the lower paper feed clutch connec- tor terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN16-B4 on the main PCB goes low. If not, replace the main PCB.
(19) Feed clutch 1 does	Broken feed clutch 1 coil.	Check for continuity across the coil. If none, replace feed clutch 1.
not operate.	Poor contact in feed clutch 1 connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN11-14 on the main PCB goes low. If not, replace the main PCB.

Problem	Causes	Check procedures/corrective measures
(20) Feed clutch 2 does not operate.	Broken feed clutch 2 coil.	Check for continuity across the coil. If none, replace feed clutch 2.
	Poor contact in feed clutch 2 connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN13-A12 on the main PCB goes low. If not, replace the main PCB.
(21) Feed clutch 3 does	Broken feed clutch 3 coil.	Check for continuity across the coil. If none, replace feed clutch 3.
not operate.	Poor contact in feed clutch 3 connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN13-A5 on the main PCB goes low. If not, replace the main PCB.
(22) The bypass paper	Broken bypass paper feed clutch coil.	Check for continuity across the coil. If none, replace the bypass paper feed clutch.
feed clutch does not operate.	Poor contact in the bypass paper feed clutch connec- tor terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN6-A9 on the main PCB goes low. If not, replace the main PCB.
(23) The bypass feed	Broken bypass feed clutch coil.	Check for continuity across the coil. If none, replace the bypass feed clutch.
clutch does not op- erate.	Poor contact in the bypass feed clutch connector ter- minals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN6-A11 on the main PCB goes low. If not, replace the main PCB.
(24) The registration clutch does not op- erate.	Broken registration clutch coil.	Check for continuity across the coil. If none, replace the registra- tion clutch.
	Poor contact in the regis- tration clutch connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U032 and check if CN10-A2 on the main PCB goes low. If not, replace the main PCB.
(25) The feedshift sole- noid does not oper- ate.	Broken feedshift solenoid coil.	Check for continuity across the coil. If none, replace the feedshift solenoid.
	Poor contact in the feedshift solenoid connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U033 and check if CN16-A1 and CN16-A2 on the main PCB go low. If not, replace the main PCB.
(26) The toner feed sole- noid does not oper- ate.	Broken toner feed solenoid coil.	Check for continuity across the coil. If none, replace the toner feed solenoid.
	Poor contact in the toner feed solenoid connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective main PCB.	Run maintenance item U033 and check if CN9-B2 on the main PCB goes low. If not, replace the main PCB.

Problem	Causes	Check procedures/corrective measures
(27) The cleaning lamp does not turn on.	Poor contact in the clean- ing lamp connector termi- nals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective cleaning lamp.	Check for continuity. If none, replace the cleaning lamp.
	Defective main PCB.	If the cleaning lamp turns on when CN9-B7 on the main PCB is held low, replace the main PCB.
(28) The exposure lamp does not turn on.	Poor contact in the expo- sure lamp connector termi- nals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective inverter PCB.	Run maintenance item U061 and check if the exposure lamp turns on with CN1-1 and CN1-2 on the inverter PCB go low. If not, replace the inverter PCB.
	Defective scanner drive PCB.	Run maintenance item U061 and check if the exposure lamp turns on with CN1-3 on the scanner drive PCB goes low. If not, replace the scanner drive PCB.
	Defective main PCB.	Run maintenance item U061 and check if CN37-3 on the main PCB goes low. If not, replace the main PCB.
(29) The exposure lamp does not turn off.	Defective inverter PCB.	If the exposure lamp does not turn off with CN1-1 and CN1-2 on the inverter PCB high, replace the inverter PCB.
	Defective scanner drive PCB.	If CN1-3 on the scanner drive PCB are always low, replace the scanner drive PCB.
(30) The fixing heater does not turn on (C6000).	Broken wire in fixing heater M or S.	Check for continuity across each heater. If none, replace the heater M or S.
	Fixing unit thermostat trig- gered.	Check for continuity across thermostat. If none, remove the cause and replace the thermostat.
(31) The fixing heater	Broken fixing unit thermis- tor wire.	Measure the resistance. If it is $\infty$ $\Omega,$ replace the fixing unit thermistor.
does not turn off.	Dirty sensor part of the fixing unit thermistor.	Check visually and clean the thermistor sensor parts.
(32)	Broken main charger wire.	See page 1-5-44.
Main charging is not performed.	Leaking main charger housing.	
	Poor contact in the high- voltage transformer PCB connector terminals.	
	Defective main PCB.	
	Defective high- voltage transformer PCB.	
(33) Transfer charging is not performed.	Poor contact in the high- voltage transformer PCB connector terminals.	See page 1-5-43.
	Defective main PCB.	
	Defective high-voltage transformer PCB.	

Problem	Causes	Check procedures/corrective measures	
(34)	Defective main PCB.	See page 1-5-43.	
No developing bias is output.	Defective high-voltage transformer PCB.	-	
(35) The original size is not detected.	Defective original detec- tion switch.	If the level of CN5-2 on the scanner drive PCB does not change when the original detection switch is turned on and off, replace the original detection switch.	
(36) The original size is not detected cor- rectly.	Original is not placed cor- rectly.	Check the original and correct if necessary.	
	Poor contact in the original size detection sensor connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.	
	Defective original size de- tection sensor.	Check if sensor operates correctly. If not, replace it.	
(37) The touch panel	Poor contact in the touch panel connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.	
keys do not work.	Defective touch panel or operation unit PCB.	If any keys do not work after the touch panel has been initial- ized, replace the touch panel or operation unit PCB.	
(38) The message re- questing paper to be loaded is shown when paper is present in the upper drawer.	Poor contact in the upper paper switch connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.	
	Defective upper paper switch.	Check if CN13-B12 on the main PCB goes low when the upper paper switch is turned on with 5 V DC present at CN13-B13 on the main PCB. If not, replace the upper paper switch.	
(39) The message re- questing paper to be	Poor contact in the lower paper switch connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.	
loaded is shown when paper is present in the lower drawer.	Defective lower paper switch.	Check if CN13-B18 on the main PCB goes low when the upper paper switch is turned on with 5 V DC present at CN13-B19 on the main PCB. If not, replace the lower paper switch.	
(40) The message re- questing paper to be loaded is shown when paper is present on the by- pass tray.	Poor contact in the bypass paper switch connector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.	
	Defective bypass paper switch.	Check if CN6-A6 on the main PCB goes low when the bypass paper switch is turned on with 5 V DC present at CN6-A5 on the main PCB. If not, replace the bypass paper switch.	
(41) The size of paper in the upper drawer is not displayed cor- rectly.	Poor contact in the upper paper length switch con- nector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.	
	Defective upper paper length switch.	Check if CN13-B2 on the main PCB goes low when the upper paper length switch is turned on. If not, replace the upper paper length switch.	
	Poor contact in the upper paper width switch con- nector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.	
	Defective upper paper width switch.	Check if the levels of CN12-3, CN12-4 and CN12-5 on the main PCB change alternately when the width guide in the upper drawer is moved. If not, replace the upper paper width switch.	

Problem	Causes	Check procedures/corrective measures
(42) The size of paper in the lower drawer is not displayed cor- rectly.	Poor contact in the lower paper length switch con- nector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective lower paper length switch.	Check if CN13-A19 on the main PCB goes low when the lower paper length switch is turned on. If not, replace the lower paper length switch.
	Poor contact in the lower paper width switch con- nector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective lower paper width switch.	Check if the levels of CN12-9, CN12-10 and CN12-11 on the main PCB change alternately when the width guide in the lower drawer is moved. If not, replace the lower paper width switch.
(43) The printing width of the paper on the	Poor contact in the bypass paper length switch con- nector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
bypass tray is not detected correctly.	Defective bypass paper length switch.	Check if CN6-B11 on the main PCB goes low when the bypass paper length switch is turned on. If not, replace the bypass pa- per length switch.
	Poor contact in the bypass paper width switch con- nector terminals.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective bypass paper width switch.	Check if the levels of CN6-A1, CN6-A2 and CN6-A3 on the main PCB change alternately when the insert guide on the bypass table is moved. If not, replace the bypass paper width switch.
(44) A paper jam in the paper feed, paper conveying or fixing section is indicated when the main switch is turned on.	A piece of paper torn from copy paper is caught around feed switch 1/2/3, registration switch, feedshift switch or eject switch.	Check and remove if any.
	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective feed switch 2.	Run maintenance item U031 and turn feed switch 2 on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective registration switch.	Run maintenance item U031 and turn the registration switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.
	Defective eject switch.	Run maintenance item U031 and turn the eject switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the switch if indication of the corre- sponding switch on the operation panel is not displayed in re- verse.

Problem	Causes	Check procedures/corrective measures
(45) The message re- questing covers to be closed is dis- played when the front cover and con- veying cover are closed.	Poor contact in the con- nector terminals of safety switch 1 or 2.	Reinsert the connector. Also check for continuity within the con- nector cable. If none, remedy or replace the cable.
	Defective safety switch 1 or 2.	Check for continuity across each switch. If there is no continuity when the switch is on, replace it.
(46) Others.	Wiring is broken, shorted or makes poor contact.	Check for continuity. If none, repair.
	Noise.	Locate the source of noise and remove.

### 1-5-5 Mechanical problems

Check if the surfaces of the following rollers or pulleys are dirty with paper powder: up- per/lower forwarding pulleys, upper/lower paper feed pulleys, upper/lower separation pulleys, feed rollers, registration rollers, by- pass forwarding pulleys, bypass paper feed pulleys and bypass separation pulleys. Check if the upper/lower forwarding pulleys, upper/lower paper feed pulleys or upper/ lower separation pulleys is deformed. Electrical problem with the following electro- magnetic clutches: upper/lower paper feed	Clean with isopropyl alcohol.
upper/lower paper feed pulleys or upper/ lower separation pulleys is deformed. Electrical problem with the following electro-	
clutches, feed clutches 1/2/3, bypass paper feed clutch and bypass feed clutch.	See pages 1-5-53 and 54.
Check if the surfaces of the right and left registration rollers are dirty with paper pow- der.	Clean with isopropyl alcohol.
Electrical problem with the registration clutch.	
Width guide in a drawer installed incorrectly.	Check the width guide visually and correct or replace if necessary.
Deformed width guide in a drawer.	Repair or replace if necessary .
Check if a pressure spring along the paper conveying path is deformed or out of place.	
Check if the scanner wire is loose.	Reinstall the scanner wire (see page 1-6-16).
The scanner motor malfunctions.	See page 1-5-52.
Check if the upper or lower separation pulley is worn.	Replace the upper or lower separation pul- ley if it is worn (see page 1-6-3).
Check if the paper is curled.	Change the paper.
Check if the paper is excessively curled.	Change the paper.
Deformed guides along the paper conveying path.	Repair or replace if necessary.
Check if the contact between the right and left registration rollers is correct.	Check visually and remedy if necessary.
Check if the contact between the feed roller and feed pulley is correct.	Check visually and remedy if necessary.
Check if the press roller is extremely dirty or deformed.	Clean or replace the press roller.
Check if the contact between the heat roller and its separation claws is correct.	Repair if any springs are off the separation claws.
Check if the contact between the eject roller and pulley is correct.	Check visually and remedy if necessary.
The feedshift solenoid malfunctions.	
	feed clutch and bypass feed clutch. Check if the surfaces of the right and left registration rollers are dirty with paper pow- der. Electrical problem with the registration clutch. Width guide in a drawer installed incorrectly. Deformed width guide in a drawer. Check if a pressure spring along the paper conveying path is deformed or out of place. Check if the scanner wire is loose. The scanner motor malfunctions. Check if the upper or lower separation pulley is worn. Check if the paper is curled. Check if the paper is excessively curled. Deformed guides along the paper conveying path. Check if the contact between the right and left registration rollers is correct. Check if the press roller is extremely dirty or deformed. Check if the contact between the feed roller and feed pulley is correct. Check if the contact between the heat roller and its separation claws is correct. Check if the contact between the heat roller and its separation claws is correct.

Toner drops on the paper conveying path.dirty.(8)Check if the pulleys, rollers and gears oper- ate smoothly.Grease the bearings and gears.	Problem	Causes/check procedures	Corrective measures
Abnormal noise is heard.       ate smoothly.         Check if the following electromagnetic clutches are installed correctly: upper/lower paper feed clutches, feed clutches 1/2/3, bypass paper feed clutch and bypass feed       Correct.	(7) Toner drops on the pa- per conveying path.		Clean the developing unit.
Check if the following electromagnetic       Correct.         clutches are installed correctly: upper/lower       paper feed clutches, feed clutches 1/2/3,         bypass paper feed clutch and bypass feed	(8) Abnormal noise is		Grease the bearings and gears.
	Abnormal noise is heard.	Check if the following electromagnetic clutches are installed correctly: upper/lower paper feed clutches, feed clutches 1/2/3, bypass paper feed clutch and bypass feed	Correct.

#### 1-6-1 Precautions for assembly and disassembly

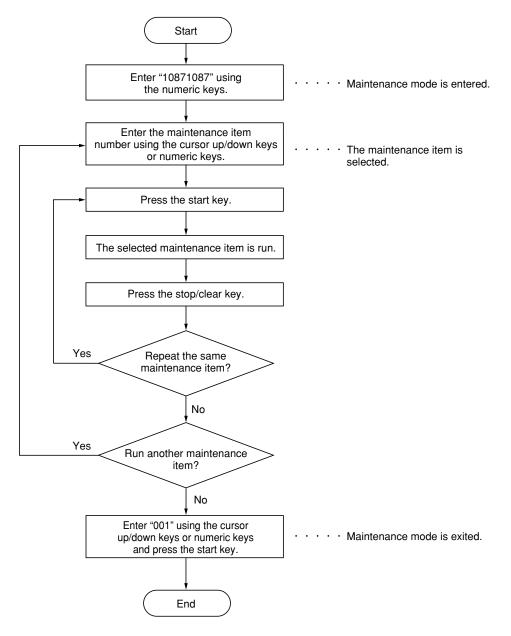
#### (1) Precautions

- Be sure to turn the main switch off and disconnect the power plug before starting disassembly.
- When handling PCBs, do not touch connectors with bare hands or damage the board.
- Do not touch any PCB containing ICs with bare hands or any object prone to static charge.
- Use only the specified parts to replace the fixing unit thermostat. Never substitute electric wires, as the copier may be seriously damaged.
- Use the following testers when measuring voltages:

Hioki 3200 Sanwa MD-180C Sanwa YX-360TR Beckman TECH300 Beckman DM45 Beckman 330\* Beckman 3030\* Beckman DM850\* Fluke 8060A\* Arlec DMM1050 Arlec YF1030C

- \* Capable of measuring RMS values.• Prepare the following as test originals:
- 1. NTC (new test chart)
- 2. NPTC (newspaper test chart)

#### (2) Running a maintenance item



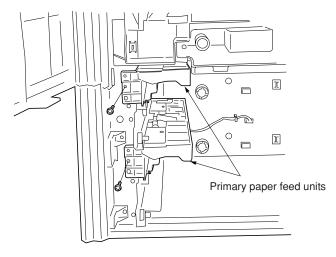
#### 1-6-2 Paper feed section

#### (1) Detaching and refitting the forwarding, paper feed and separation pulleys

Follow the procedure below to replace the forwarding, paper feed and separation pulleys.

#### Procedure

- · Removing the primary paper feed units
- 1. Open the front cover and pull out the upper and lower drawers.
- 2. Remove the one screw from each of the primary paper feed units and then the units.





- Removing the forwarding pulley
- 3. Remove the stopper.
- 4. Raise the forwarding pulley retainer in the direction the arrow, and remove from the primary paper feed unit.

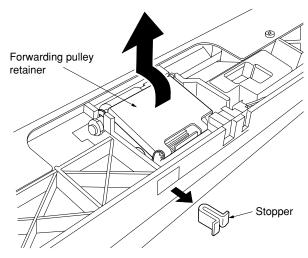
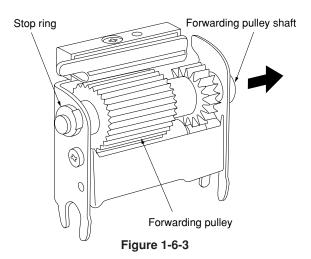


Figure 1-6-2

5. Remove the stop ring, pull the forwarding pulley shaft in the direction of the arrow, and remove the forwarding pulley.



# 2DF

- Removing the paper feed pulley
- 6. Remove the two stop rings.

• Removing the separation pulley

primary paper feed unit.

remove the separation pulley.

8. Remove the stop ring on the rear of the

9. Pull the separation shaft toward the machine rear (in the direction of the arrow) and

7. Pull the paper feed shaft toward the rear of the primary paper feed unit (in the direction of the arrow) and remove the paper feed pulley.

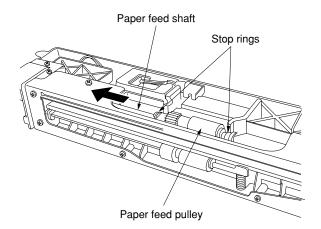


Figure 1-6-4

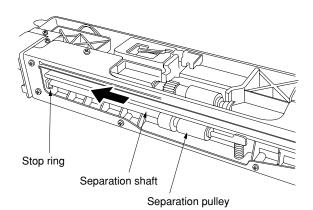
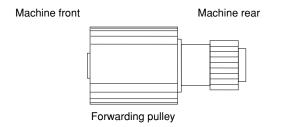


Figure 1-6-5

10. Replace the forwarding, paper feed and separation pulleys.

# Caution:

- When fitting the forwarding pulley, orient it correctly as shown in Figure 1-6-6.
- When fitting the separation pulley, keep the blue end of the separation toward the machine rear.
- 11. Refit all removed parts.





# (2) Detaching and refitting the bypass separation, bypass paper feed and bypass forwarding pulleys

Follow the procedure below to replace the bypass separation, bypass paper feed and bypass forwarding pulleys.

# Procedure

- Removing the bypass unit
- 1. Remove the four screws holding the lower right cover and then the cover.

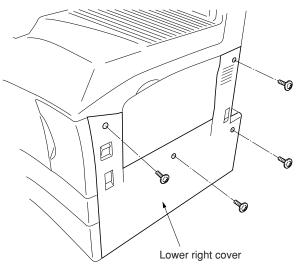


Figure 1-6-7

2. Remove the two screws holding the bypass unit and disconnect the two connectors, and then remove the unit.

Removing the bypass separation pulley
Reverse the bypass unit and remove the spring and stop ring from the bypass

inside.

separation pulley and move the bushing

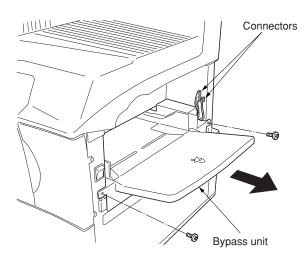
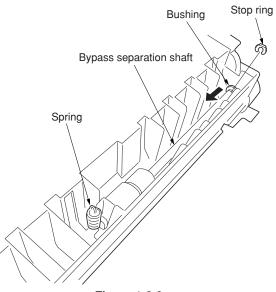


Figure 1-6-8



4. Raise the bypass separation shaft as shown in the diagram, remove the holder plate and the bushing, and then remove the bypass separation pulley.

\* Take care not to remove the spring pin of the gear at the rear of the bypass separation shaft. If it is removed, refit it to its original position.

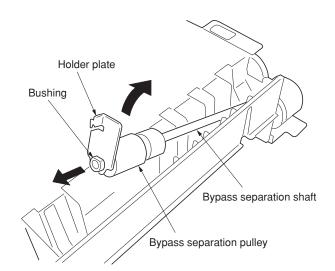
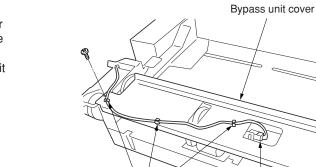


Figure 1-6-10



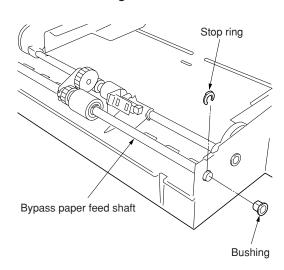
Clamps

Removing the bypass paper feed pulley

- 5. Detach the connector of the bypass paper switch and remove the wire from the three clamps.
- 6. Remove the screw holding the bypass unit cover and then the cover.



Connector



Remove the stop ring and bushing on the front of the bypass paper feed shaft.



- 8. Raise the bypass paper feed shaft as shown in the illustration, remove the stop ring, and then remove the bypass paper feed pulley. **Caution:**
- When fitting the bypass paper feed pulley, keep the blue end of the paper feed toward the machine rear.

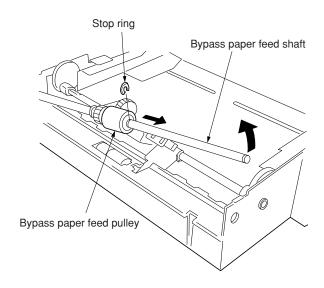
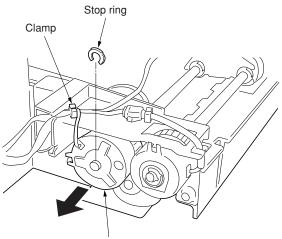


Figure 1-6-13



Bypass paper feed clutch



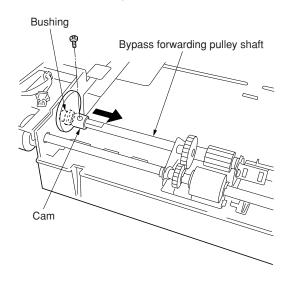


Figure 1-6-15

- Removing the bypass forwarding pulley
- 9. Remove the wire of the bypass paper feed clutch from the clamp.
- 10. Remove the stop ring and bypass paper feed clutch.
  - When refitting, insert the cutout in the bypass paper feed clutch over the stopper on the copier.

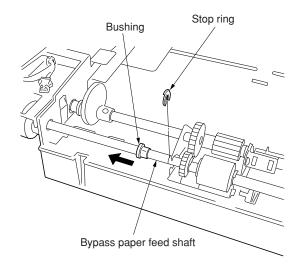
11. Remove the screw from the cam at the rear of the bypass forwarding pulley shaft and move the cam and the bushing toward the inner side.

- 2DF
- 12. Remove the stop ring of the bypass paper feed shaft and slide the bushing in the direction of the arrow.

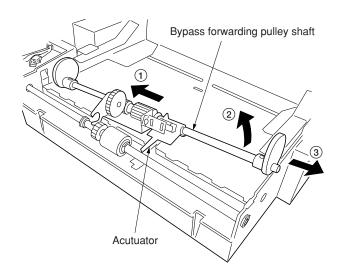
13. Slide the bypass forwarding pulley shaft

of the bypass paper switch.

temporarily toward the rear side and then raise it to remove from the bypass unit. \* Remove the shaft while raising the actuator









14. Remove the bushing an cam on the rear of the bypass forwarding pulley shaft.

Bushing



15. Remove the stop ring and slide the bypass forwarding pulley with the forwarding pulley retainer from the shaft to remove it.
16. Replace the bypass separation, bypass paper feed and bypass forwarding pulleys.

Bypass forwarding pulley
Forwarding pulley retainer

# Figure 1-6-19

17. Refit all removed parts.
\* Fit the bypass unit cover so that the film on the cover is positioned under the bypass paper feed shaft.

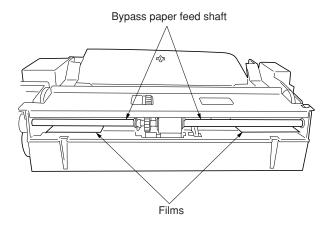


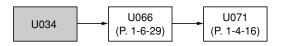
Figure 1-6-20

### (3) Adjustment after roller and clutch replacement

Perform the following adjustment after refitting rollers and clutches.

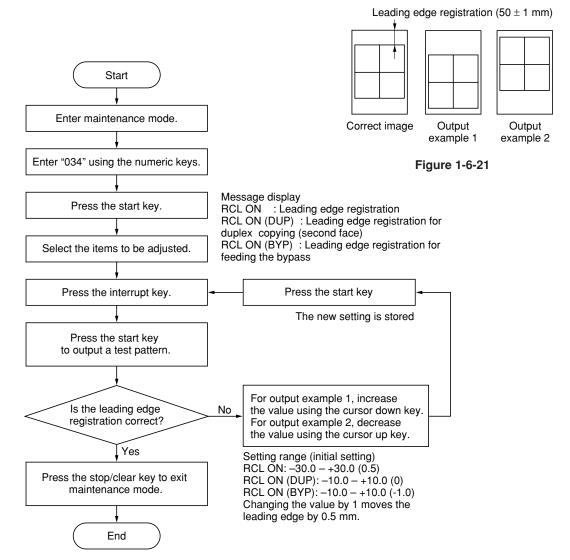
### (3-1) Adjusting the leading edge registration of image printing

Make the following adjustment if there is a regular error between the leading edges of the copy image and original.



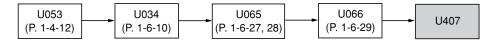
### Caution:

Check the copy image after the adjustment. If the image is still incorrect, perform the above adjustments in maintenance mode.



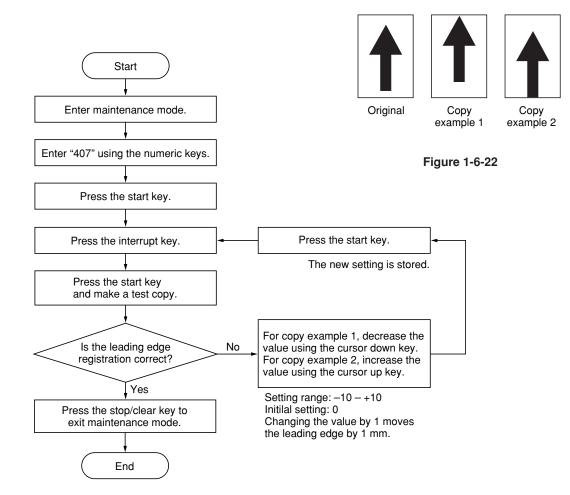
# (3-2) Adjusting the leading edge registration for memory image printing

Make the following adjustment if there is a regular error between the leading edge of the copy image and the leading edge of the original during memory copying.



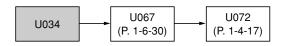
# Caution:

Before making the following adjustment, ensure the above adjustments have been made in maintenance mode.



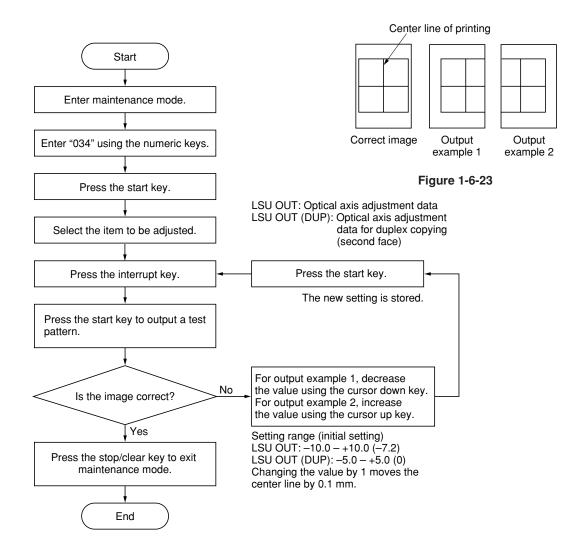
# (3-3) Adjusting the center line of image printing

Make the following adjustment if there is a regular error between the center lines of the copy image and original when paper is fed from the drawer.



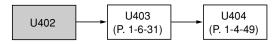
# Caution:

Check the copy image after the adjustment. If the image is still incorrect, perform the above adjustments in maintenance mode.



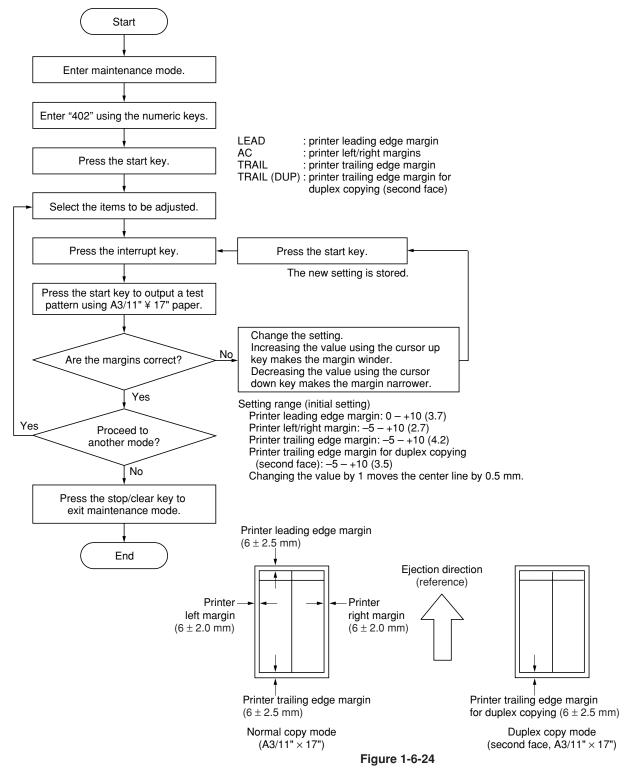
## (3-4) Adjusting the margins for printing

Make the following adjustment if the margins are not correct.



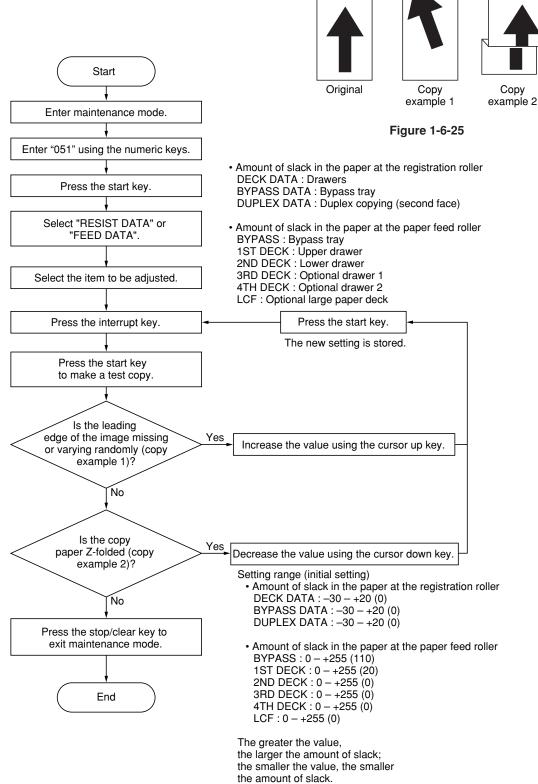
# Caution:

Check the copy image after the adjustment. If the margins are still incorrect, perform the above adjustments in maintenance mode.



## (3-5) Adjusting the amount of slack in the paper

Make the following adjustment if the leading edge of the copy image is missing or varies randomly, or if the copy paper is Z-folded.



# 1-6-3 Optical section

# (1) Detaching and refitting the exposure lamp

Replace the exposure lamp as follows.

# Procedure

- 1. Remove the original cover or the DF.
- 2. Remove the upper right cover, upper front cover, upper rear cover and contact glass.

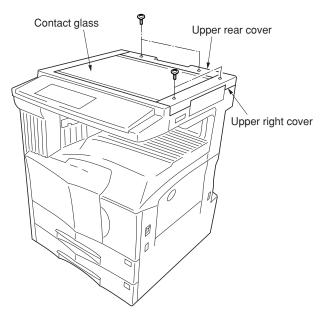


Figure 1-6-26

3. Move the mirror 1 frame to the cutouts of the machine.

Caution: When moving the mirror 1 frame, do not touch the exposure lamp nor the inverter PCB.

4. Remove the two screws holding the metal plate on the rear of the machine and then the plate.

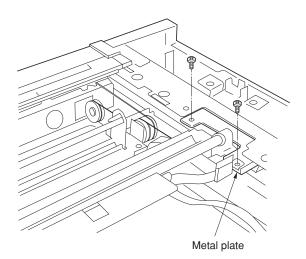


Figure 1-6-27

- 5. Detach the exposure lamp connector from the inverter PCB.
- 6. Remove the two screws holding the exposure lamp and then the lamp.
- 7. Replace the exposure lamp and refit all the removed parts.

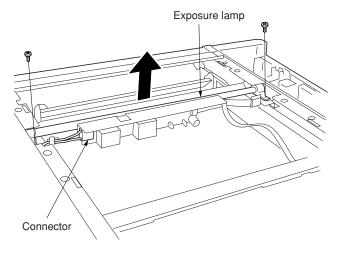


Figure 1-6-28

# 2DF

## (2) Detaching and refitting the scanner wires

Take the following procedure when the scanner wires are broken or to be replaced.

### Caution:

After replacing the scanner wire, make a test copy and check the copy image. If the image is incorrect, perform the adjustments (see pages 1-6-25 to 31).

# (2-1) Detaching the scanner wires

# Procedure

- 1. Remove the exposure lamp (see page 1-6-19).
- 2. Remove the upper left cover and scanner left cover.

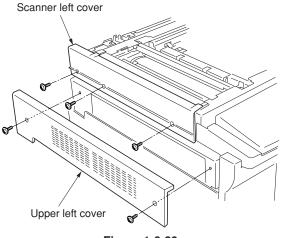
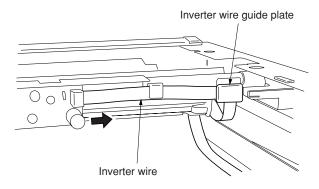


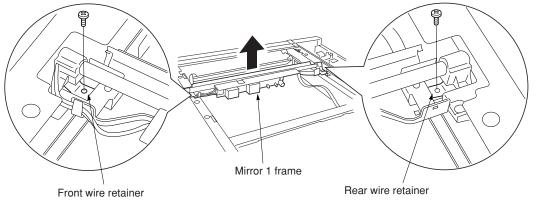
Figure 1-6-29

3. Remove the inverter wire guide plate and then the wire from the inverter PCB.



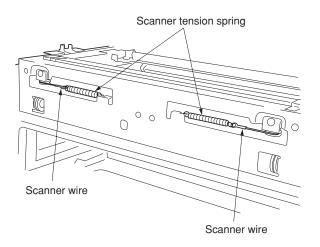


4. Remove the screw holding each of the front and rear wire retainers and then remove the mirror 1 frame from the scanner unit.





- 5. Unhook the round terminal of the scanner wire from the scanner tension spring on the left side of the scanner unit.
- 6. Remove the scanner wire.





#### (2-2) Fitting the scanner wires

### Caution:

When fitting the wires, be sure to use those specified below. Machine front: P/N 2AV1219 (black) Machine rear: P/N 2AV1220 (gray)

Fitting requires the following tools: Two frame securing tools (P/N 2AV6808) Two scanner wire stoppers (P/N 3596811)

- Insert the locating ball on each of the scanner wires into the hole in the respective scanner wire drum and wind the scanner wire three turns inward and four turns outward.
  - With the locating ball as the reference point, wind the shorter end of each of the wires inward.
- 2. Secure the scanner wires using the scanner wire stoppers.

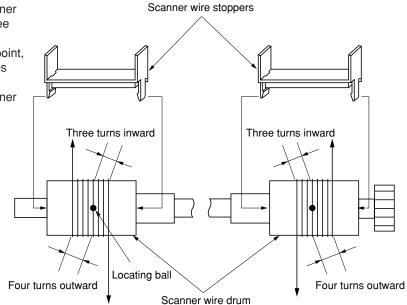
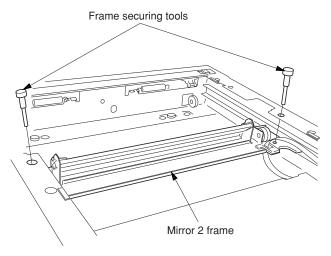


Figure 1-6-29

3. Insert the two frame securing tools into the positioning holes at the front and rear of the scanner unit to pin the mirror 2 frame in position.





4.	Loop the inner ends of the scanner wires around the grooves in the pulleys at the right of the scanner unit,
	winding from below to above
5.	Loop the scanner wires around the inner grooves in the pulleys on the mirror 2 frame, winding from above to
	below
6.	Hook the round terminals onto the catches inside the scanner unit. $(3)$

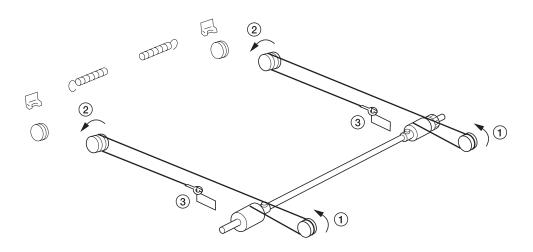


Figure 1-6-35

# 2DF

7. Loop the outer ends of the scanner wires around the grooves in the scanner wire pulleys at the left of the	
scanner unit, winding from below to above.	(4)
8. Loop the scanner wires around the outer grooves in the pulleys on the mirror 2 frame, winding from below	
above	(5)
9. Wind the scanner wires around the grooves in the scanner wire guides at the left of the scanner unit	6
10. Hook the round terminals onto the scanner tension springs.	7

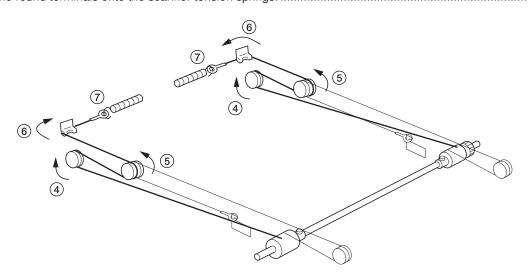


Figure 1-6-36

- 11. Remove the scanner wire stoppers and frame securing tools.
- 12. Gather the scanner wires toward the locating balls.
- 13. Move the mirror 2 frame from side to side to correctly locate the wires in position.
- 14. Put the mirror 1 frame on the scanner rail and move it toward the left side of the machine.
- 15. Insert the frame securing tools into the positioning holes (leftmost holes) at the front and the rear of the scanner unit and screw the mirror 1 frame while securing both the mirror 1 frame and the mirror 2 frame.
- 16. Remove the two frame securing tools
- 17. Refit all the removed parts.

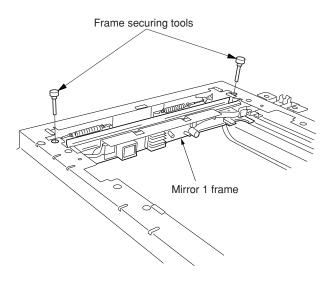


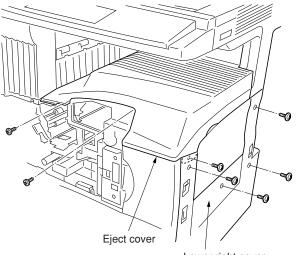
Figure 1-6-37

# (3) Detaching and refitting the laser scanner unit

Take the following procedure when the laser scanner unit is to be checked or replaced.

## Procedure

- 1. Remove the developing unit and drum unit (see pages 1-6-32 and 34).
- 2. Remove the four screws holding the lower right cover and then the cover. Remove the three screws holding the eject cover and then the cover.



Lower right cover



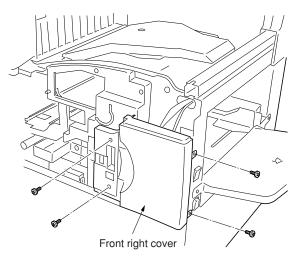


Figure 1-6-39

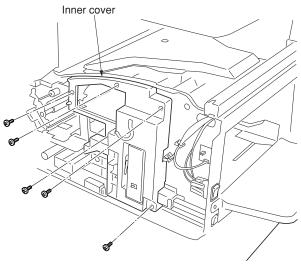


Figure 1-6-40

3. Remove the four screws holding the front right cover and then the cover.

4. Remove the five screws holding the inner cover and then the cover.

5. Remove the two screws and detach the connector and then remove the fan duct.

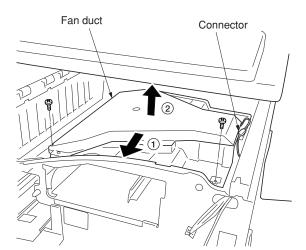


Figure 1-6-41

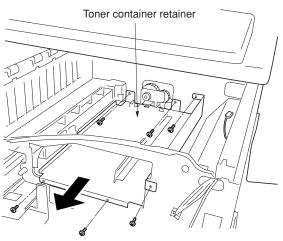
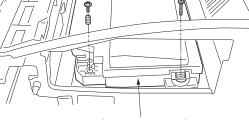


Figure 1-6-42

- 7. Remove the four screws and detach the connector and then remove the laser scanner unit.
- 8. Replace the laser scanner unit and refit all the removed parts.



Connector



Laser scanner unit

Figure 1-6-43

6. Remove the six screws holding the toner container retainer and then the retainer.

### (4) Adjusting the skew of the laser scanner unit (reference)

Perform the following adjustment if the leading and trailing edges of the copy image are laterally skewed (lateral squareness not obtained).

# Caution:

• After adjusting the skew of the laser scanner unit, make a test copy and check the copy image. If lateral squareness is still not obtained, perform "(6) Adjusting the position of the ISU" (see page 1-6-25).

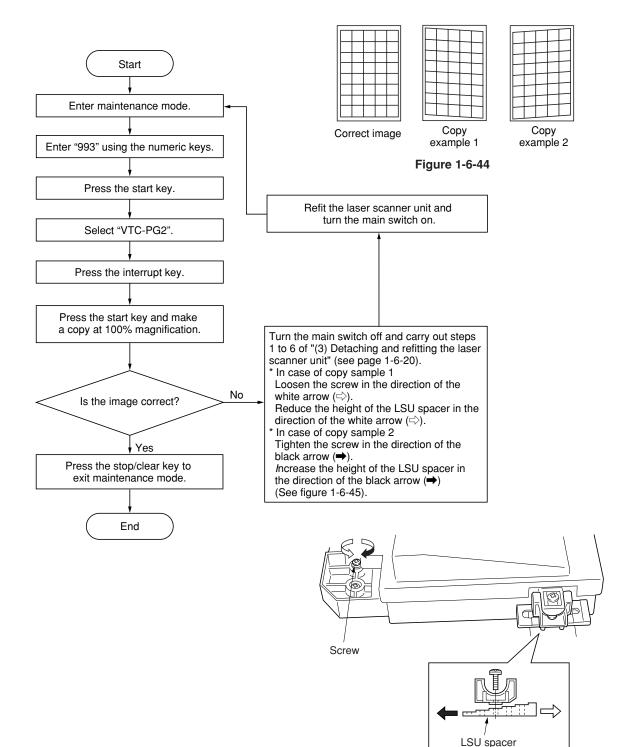


Figure 1-6-45

# (5) Detaching and refitting the ISU (reference)

Take the following procedure when the ISU is to be checked or replaced.

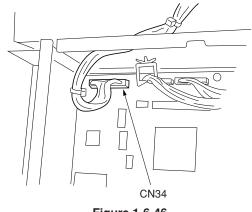
### Caution:

After replacing the ISU, make a test copy and check the copy image. If the image is incorrect, perform the adjustments (see pages 1-6-25 to 31).

ISU installation requires the following tools: Two positioning pins (P/N 1856812)

# Procedure

- Detaching the ISU
- 1. Remove the contact glass (see page 1-6-19).
- 2. Remove the rear and shield covers and detach connector CN34 on the main PCB.





3. Remove the eight screws holding the ISU cover and then the cover.

4. Remove the two screws holding the original

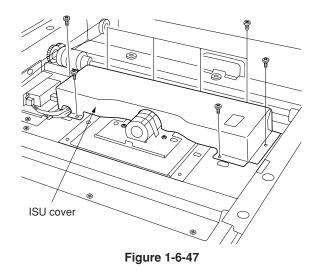
retainer.

then the ISU.

6. Check or replace the ISU.

size detection sensor retainer and then the

5. Remove the four screws holding the ISU and



Original size detection sensor retainer

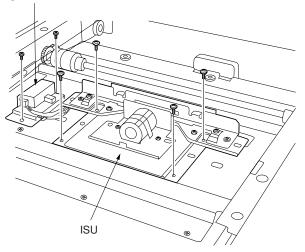


Figure 1-6-48

- 2DF

- Refitting the ISU
  1. Fit the ISU using the two positioning pins.
  2. Secure the ISU using the four screws.
  3. Remove the two positioning pins and refit all the removed parts.

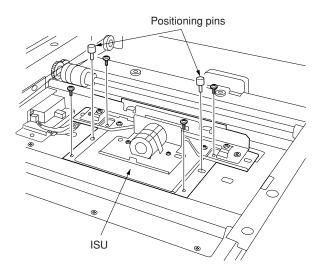


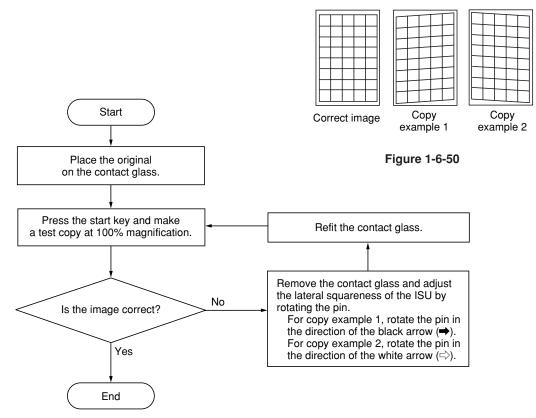
Figure 1-6-49

Perform the following adjustment if the leading and trailing edges of the copy image are laterally skewed (lateral squareness not obtained).

# Caution:

- Be sure to perform "(4-1) Adjusting the skew of the laser scanner unit" (page 1-6-22) first.
- Before making the following adjustment, output a VTC-PG2 pattern in maintenance item U993 to use as the original for the adjustment.

# Procedure



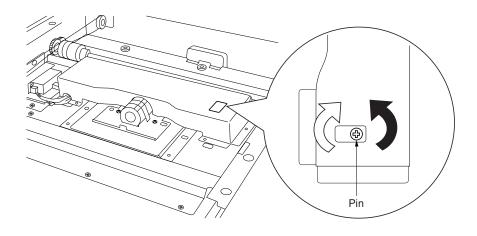


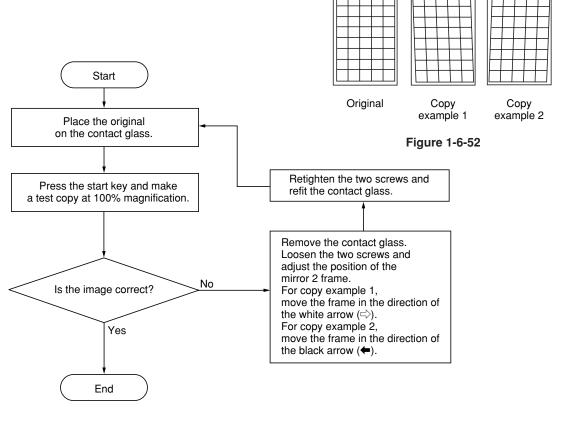
Figure 1-6-51

# (7) Adjusting the longitudinal squareness (reference)

Perform the following adjustment if the copy image is longitudinally skewed (longitudinal squareness not obtained).

#### Caution:

- Adjust the amount of slack in the paper (page 1-6-14) first. Check for the longitudinal squareness of the copy image, and if it is not obtained, perform the longitudinal squareness adjustment.
- Before making the following adjustment, output a VTC-PG2 pattern in maintenance item U993 to use as the original for the adjustment.



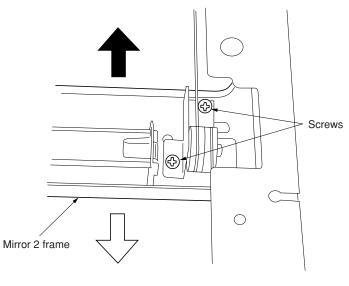


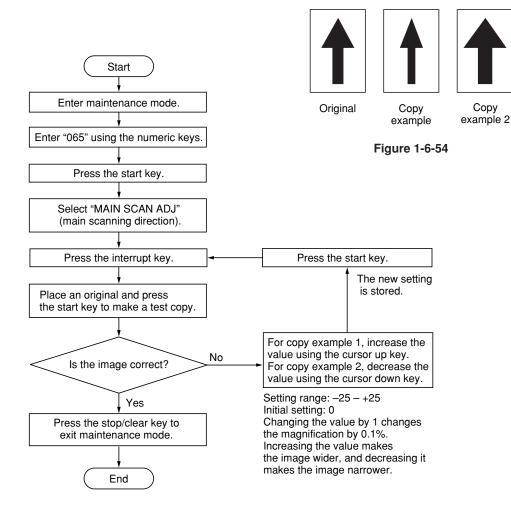
Figure 1-6-53

Perform the following adjustment if the magnification in the main scanning direction is not correct.

U053	U065	U065	U067
(P. 1-4-12)	 (main scanning direction)	 (auxiliary scanning direction) (P. 1-6-28)	 (P. 1-6-30)

### Caution:

Before making the following adjustment, ensure that the above adjustments have been made in maintenance mode. Also, perform "(9) Adjusting magnification of the scanner in the auxiliary scanning direction" (page 1-6-28) and "(11) Adjusting the scanner center line" (page 1-6-30) after this adjustment.



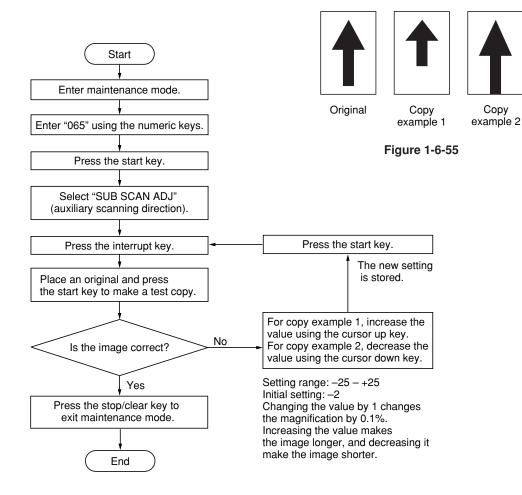
## (9) Adjusting magnification of the scanner in the auxiliary scanning direction

Perform the following adjustment if the magnification in the auxiliary scanning direction is not correct.

U053	U065	U065 (auxiliary scanning	U070
(P. 1-4-12)	(main scanning direction) (P. 1-6-27)	direction)	(P. 1-4-15)

#### Caution:

Before making the following adjustment, ensure that the above adjustments have been made in maintenance mode.

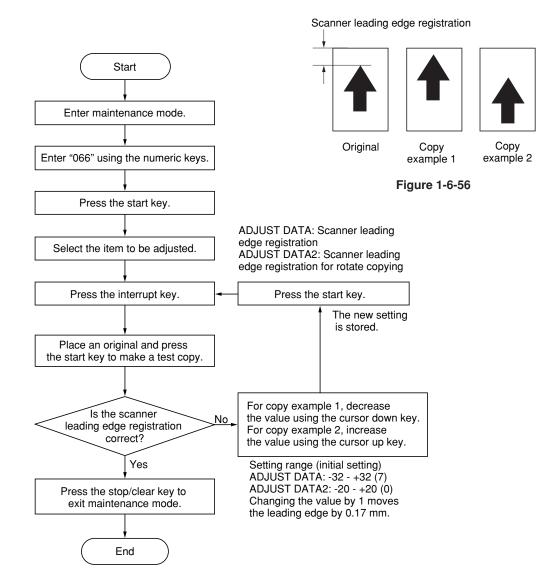


Perform the following adjustment if there is regular error between the leading edges of the copy image and original.



# Caution:

Before making the following adjustment, ensure that the above adjustments have been made in maintenance mode.



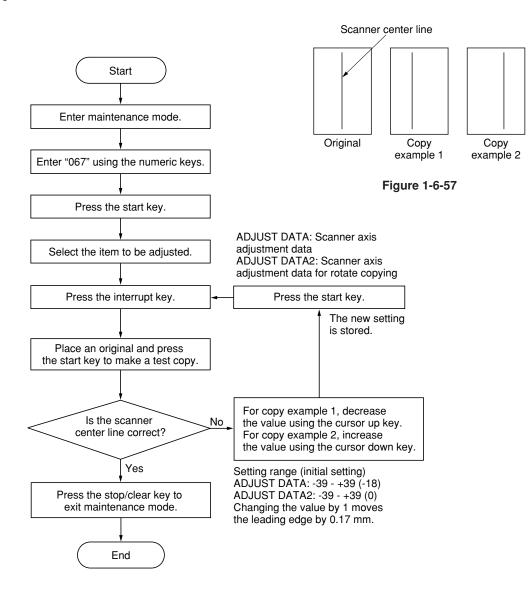
# (11) Adjusting the scanner center line

Perform the following adjustment if there is a regular error between the center lines of the copy image and original.



#### Caution:

Before making the following adjustment, ensure that the above adjustments have been made in maintenance mode.



#### (12) Adjusting the margins for scanning an original on the contact glass

Perform the following adjustment if the margins are not correct.



### Caution:

Before making the following adjustment, ensure that the above adjustments have been made in maintenance mode.

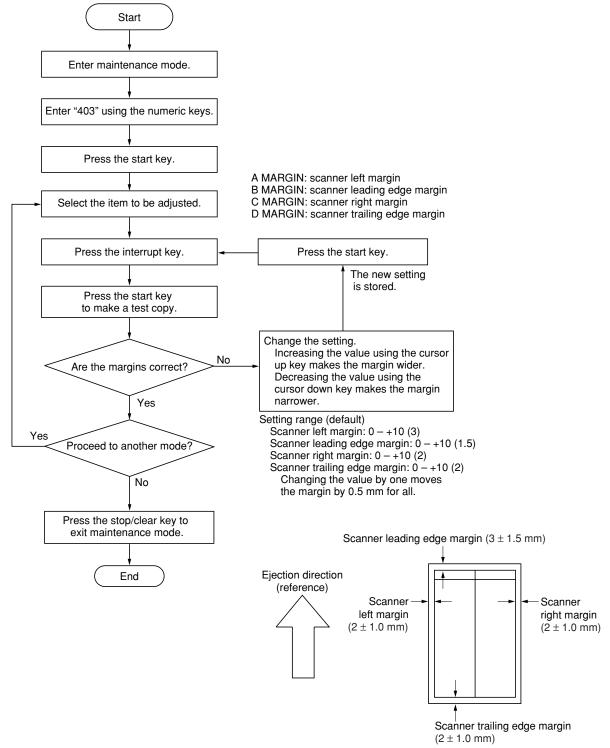


Figure 1-6-58

# 1-6-4 Drum section

# (1) Detaching and refitting the drum unit

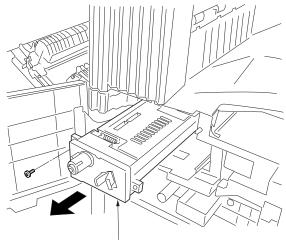
Follow the procedure below to replace the drum unit.

# Cautions:

- Avoid direct sunlight or strong light when detaching and refitting the drum unit.
- Never touch the drum surface when holding the drum unit.

# Procedure

- 1. Open the conveying cover and remove the developing unit (see page 1-6-34).
- 2. Remove the screws holding the drum unit and then the unit.
- 3. Replace the drum unit and refit all the removed parts.



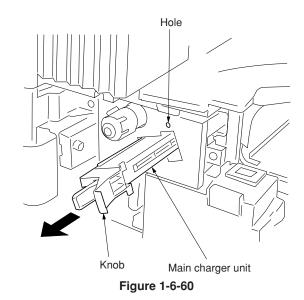
Drum unit

Figure 1-6-59

#### (2) Detaching and refitting the main charger unit

Follow the procedure below to replace the main charger unit.

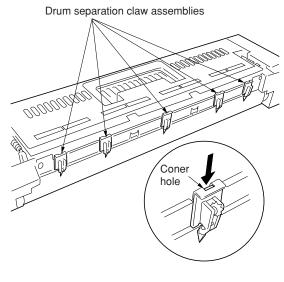
- 1. Open the front cover.
- 2. Pull out the main charger unit holding the knob.
- 3. While pushing the hole with a sharp-pointed object, remove the main charger unit.
- 4. Replace the main charger unit and refit all the removed parts.



# (3) Detaching and refitting the drum separation claw assemblies

Follow the procedure below to replace the drum separation claw assemblies.

- 1. Remove the drum unit (see page 1-6-32).
- 2. Push the drum separation claw assemblies with the minus driver from the top of the corner hole and remove the claw assemblies.
- 3. Replace the drum separation claw assemblies and refit all the removed parts.





# 1-6-5 Developing section

# (1) Detaching and refitting the developing unit

Follow the procedure below to replace the developing unit.

# Procedure

- 1. Open the front cover.
- 2. Remove the toner container and toner disposal tank.
- 3. Remove the screw and turn the developing release lever in the direction of the arrow.

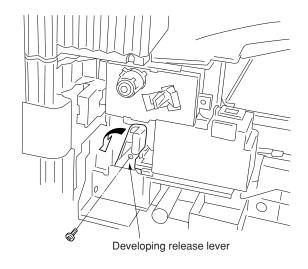


Figure 1-6-62

- 4. Remove the developing unit.
- 5. Replace the developing unit and refit all the removed parts.

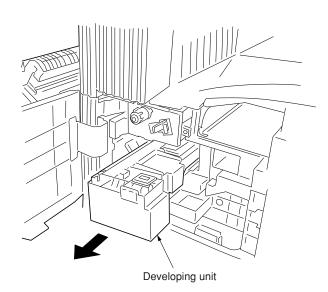


Figure 1-6-63

# (1) Detaching and refitting the transfer roller assembly

Follow the procedure below to replace the transfer roller assembly.

- 1. Open the conveying cover.
- 2. While holding down the projection, slide the transfer roller assembly toward the front to remove it.
- 3. Replace the transfer roller assembly and refit all the removed parts.

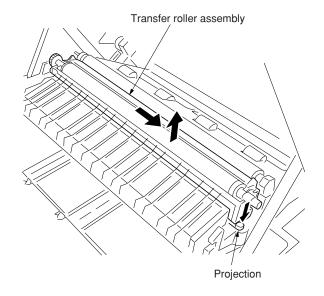


Figure 1-6-64

# 1-6-7 Fixing section

# (1) Detaching and refitting the fixing unit

Follow the procedure below to check or replace the fixing unit.

## Procedure

- 1. Open the front cover and conveying cover.
- 2. Remove the three screws holding the front left cover and then the cover.

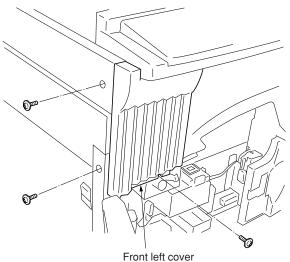


Figure 1-6-65

- 3. Remove the screw holding the fixing unit and then the unit.
- 4. Check or replace the transfer roller assembly and refit all the removed parts.

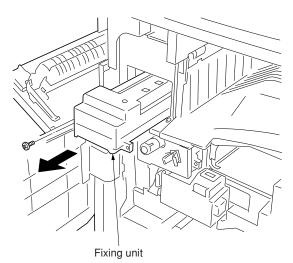
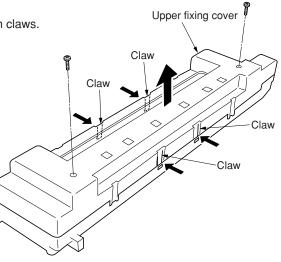


Figure 1-6-66

# (2) Detaching and refitting the heat roller separation claws Follow the procedure below to replace the heat roller separation claws. Claw 1. Remove the fixing unit. 2. Remove the two screws and detach the Claw upper fixing cover while holding the four



Procedure

claws.

- 3. Remove the heat roller separation claws from the upper fixing cover.
- 4. Replace the heat roller separation claws and refit all the removed parts.

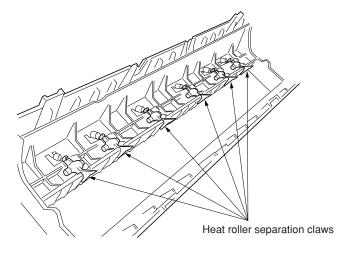


Figure 1-6-68

## (3) Detaching and refitting the press roller

Follow the procedure below to replace the press roller.

- 1. Remove the fixing unit (see page 1-6-36).
- 2. Remove the upper fixing cover (see page 1-6-36).
- 3. Remove the front and rear press springs.

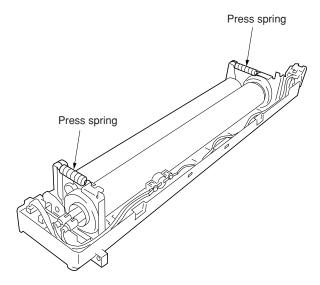
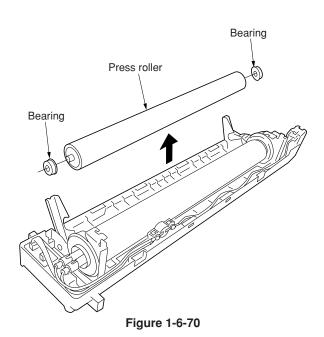


Figure 1-6-69



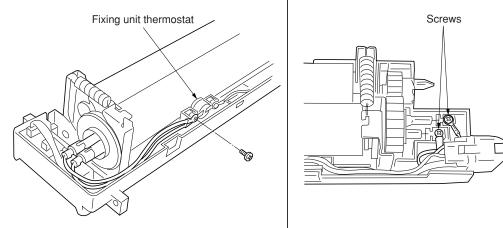
- 4. Detach the press roller from the fixing unit and remove the front and rear bearings.
- 5. Replace the press roller and refit all the removed parts.

# (4) Detaching and refitting the fixing heater M and S

Follow the procedure below to replace the fixing heater M and S.

# Procedure

- 1. Remove the fixing unit (see page 1-6-36).
- 2. Remove the upper fixing cover (see page 1-6-36).
- 3. Remove the screw on the front of the fixing unit thermostat and two screws on the rear of the fixing unit.



4. Pull out the fixing heater M and S from the fixing unit.

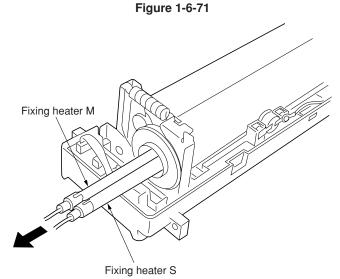


Figure 1-6-72

- Fixing heater M
- 5. Replace the fixing heater M and S, and refit all the removed parts.

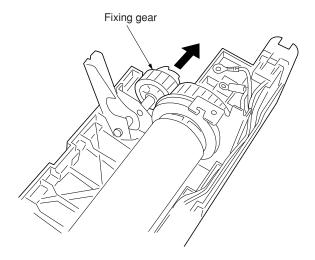
\* When refitting the fixing heaters, take care not to refit fixing heaters M and S to wrong positions. Refit fixing heater M (black wire) to the fixing unit housing with mark B and fixing heater S (white wire) to the housing with mark W.



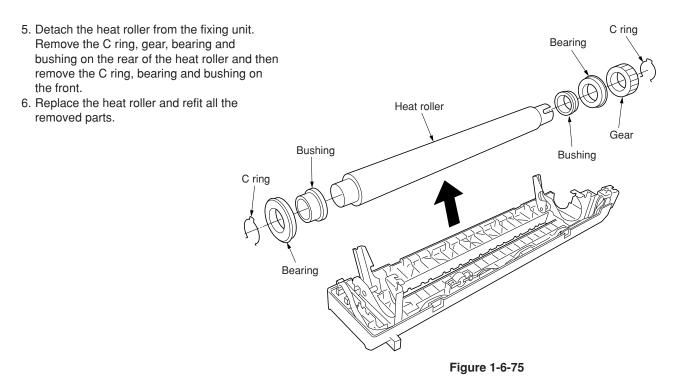
## (5) Detaching and refitting the heat roller

Follow the procedure below to replace the heat roller.

- 1. Remove the fixing unit (see page 1-6-36).
- 2. Remove the upper fixing cover (see page 1-6-36).
- 3. Remove the press roller and fixing heater M and S (see pages 1-6-37 and 38).
- 4. Remove the fixing gear.





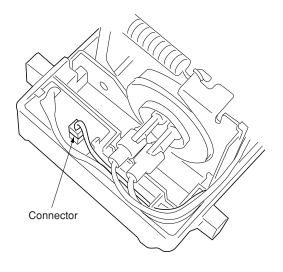


## (6) Detaching and refitting the fixing unit thermistor

Follow the procedure below to replace the fixing unit thermistor.

#### Procedure

- 1. Remove the fixing unit (see page 1-6-36).
- 2. Remove the upper fixing cover (see page 1-6-36).
- 3. Disconnect the connector of the fixing unit thermistor.





- 4. Remove the heat roller (see page 1-6-39).
- 5. Turn the fixing unit over and remove the screw to remove the fixing unit thermistor.

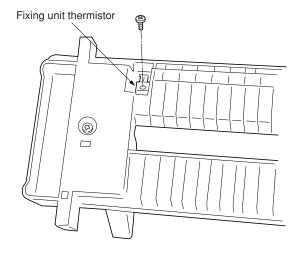


Figure 1-6-77

## 1-7-1 Upgrading the firmware on the main PCB

Firmware upgrading requires the following tools: Compact Flash (Products manufactured by SANDISK are recommended.)

#### NOTE

When writing data to a new Compact Flash from a computer, be sure to format it in advance.

(For formatting, insert a Compact Flash and select a drive.)

For a desktop computer, connect a Compact Flash card reader/writer to it. For a notebook computer, use a PC card adapter or a connection portion only for Compact Flash.

#### Procedure

- 1. Turn the main switch off and disconnect the power plug.
- 2. Remove the middle right cover. Insert it with its rear side toward the front side of the machine.
- 3. Insert Compact Flash in a notch hole of the copier.
- 4. Insert the power plug and turn the main switch on. Upgrading firmware starts for 3 minutes.

Caution:

Never turn the main switch off during upgrading.

- 5. "Completed" is displayed on the touch panel when upgrading is complete.
- 6. Turn the main switch off and disconnect the power plug.
- 7. Remove Compact Flash from the copier and refit the middle right cover.
- 8. Insert the power plug and turn the main switch on.

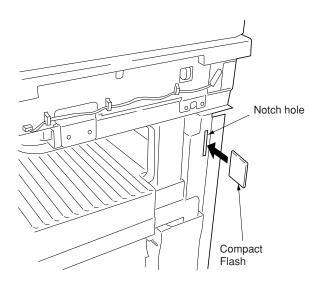


Figure 1-7-1

## 1-7-2 Replacing the backup ROM

Replacing the backup ROM requires the following tools: ROM replacing tool

#### Procedure

- 1. Insert the claw of the ROM replacing tool into the groove of the backup ROM.
- 2. Press the ROM replacing tool from both the right and the left sides. The backup ROM is removed.
- 3. Replace the backup ROM.

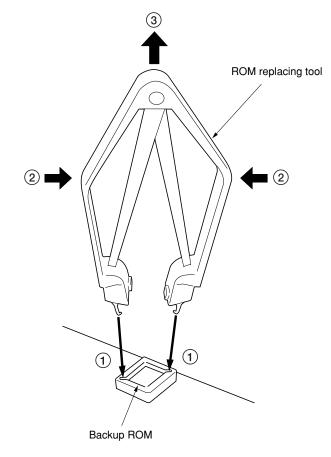


Figure 1-7-3

# 1-7-3 Adjustment-free variable resistors (VR)

The variable resistors listed below are set at the factory prior to shipping and cannot be adjusted in the field. • High-voltage transformer PCB: VR42, VR201, VR204, VR205

- Inverter PCB: VR1, VR2

#### 2-1-1 Paper feed section

The paper feed section consists of the primary feed and secondary feed subsections. Primary feed conveys paper from the upper drawer, lower drawer or bypass tray to the left and right registration rollers, at which point secondary feed takes place and the paper travels to the transfer section in sync with the printing timing.

Each drawer consists of a lift driven by the lift motor and other components. Each drawer can hold up to 500 sheets of paper. Paper is fed from the drawer by the rotation of the forwarding pulley and paper feed pulley. The separation pulley prevents multiple sheets from being fed at one time, via the torque limiter.

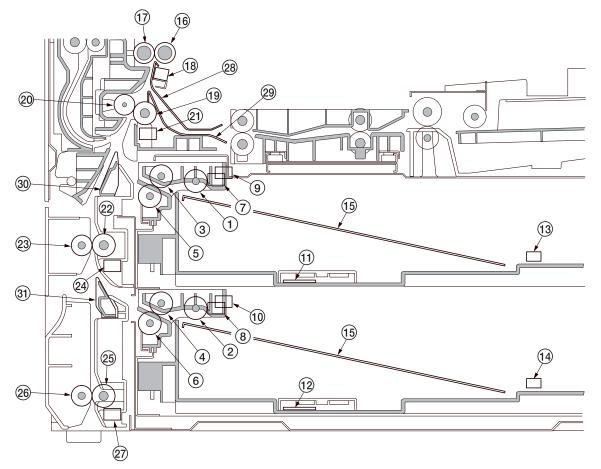
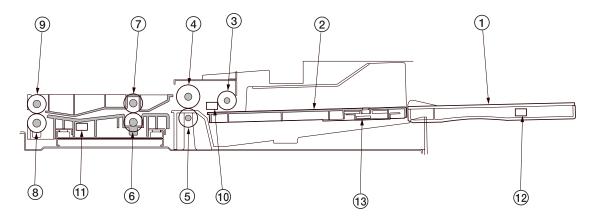


Figure 2-1-1 Paper feed from the upper and lower drawers

- (1) Upper forwarding pulley
- ② Lower forwarding pulley
- ③ Upper paper feed pulley
- (4) Lower paper feed pulley
- (5) Upper separation pulley
- 6 Lower separation pulley
- (7) Upper paper switch (PSW-U)
- (a) Lower paper switch (PSW-L)
- (9) Upper lift limit switch (LICSW-U)
- 10 Lower lift limit switch (LICSW-L)
- (1) Upper paper width switch (PWSW-U)
- 12 Lower paper width switch (PWSW-L)
- (13) Upper paper length switch (PLSW-U)
- (1) Lower paper length switch (PLSW-L)
- (15) Drawer lift
- (6) Right registration roller

- 17 Left registration roller
- (18) Registration switch (RSW)
- 1 Feed roller 1
- 20 Feed pulley
- (1) Feed switch 1 (FSW1)
- 2 Feed roller 2
- 23 Feed pulley
- 24 Feed switch 2 (FSW2)
- 25 Feed roller 3
- 26 Feed pulley
- 27 Feed switch 3 (FSW3)
- Front registration guide
- 29 Paper conveying guide
- 3 Vertical paper conveying guide 1
- (3) Vertical paper conveying guide 2

The bypass table can be hold up to 200 sheets of paper at one time. Paper is fed from the bypass table by the rotation of the bypass forwarding pulley and bypass paper feed pulley. Also during paper feed, the bypass separation pulley prevents multiple sheets from being fed at one time by the torque limiter.





- 1 Bypass table
- (2) Bypass lift guide
  (3) Bypass forwarding pulley
  (4) Bypass paper feed pulley
- 5 Bypass separation pulley
- 6 Bypass feed roller 1
- (7) Bypass feed pulley
- Bypass feed roller 2
  Bypass feed pulley
- (1) Bypass paper switch (BYPPSW)
- (1) Bypass feed switch (BYPFSW)
- Dipass paper length switch (BYPPLSW)
- (13) Bypass paper width switch (BYPPWSW)

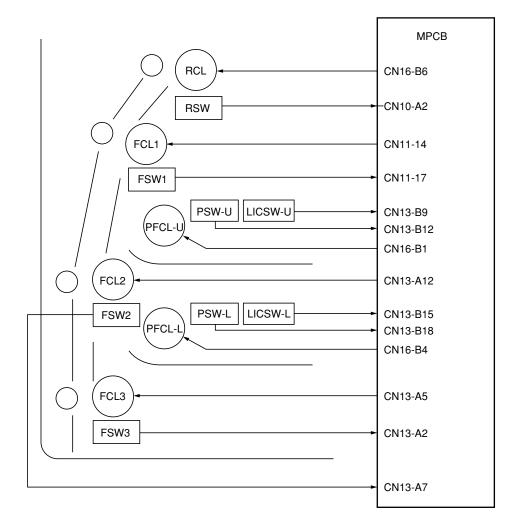


Figure 2-1-3 Paper feed section block diagram (upper and lower drawers)

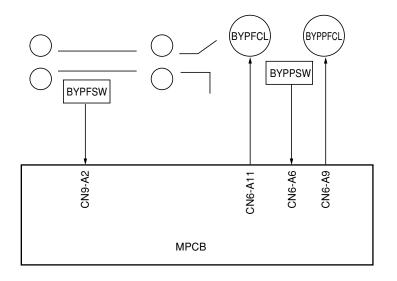
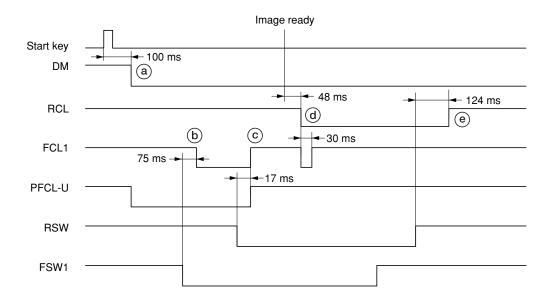
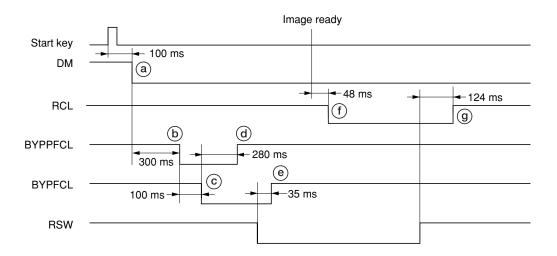


Figure 2-1-4 Paper feed section block diagram (bypass table)



Timing chart 2-1-1 Paper feed from the upper drawer

- (a):100 ms after the start key is pressed, the drive motor (DM) turns on to start the drive for the paper feed section. At the same time, the upper paper feed clutch (PFCL-U) turns on, and the forwarding and paper feed pulleys rotate to start primary paper feed.
- (b):75 ms after the leading edge of the paper turns the feed switch 1 (FSW1) on, the feed clutch 1 (FCL1) turns on and the feed roller 1 rotates.
- ©:17 ms after the leading edge of the paper turns the registration switch (RSW) on, the upper paper feed clutch (PFCL-U) and feed clutch 1 (FCL1) turn off.
- (d): 48 ms after image ready signal turns on, the registration clutch (RCL) turns on, and the right registration roller rotates to start secondary paper feed. At the same time, feed clutch 1 (FCL1) turns on for 30 ms.
- (e): 124 ms after the trailing edge of the paper turns the registration switch (RSW) off, the registration clutch (RCL) turns off.



Timing chart 2-1-2 Paper feed from the bypass tray

(a): 100 ms after the start key is pressed, the drive motor (DM) turns on to start the drive for the paper feed section.

(b): 300 ms after the drive motor (DM) turns on, the bypass paper feed clutch (BYPPFCL) turns on.

©: 100 ms after the bypass paper feed clutch (BYPPFCL) turns on, the bypass feed clutch (BYPFCL) turns on.

(a): 280 ms after the bypass feed clutch (BYPFCL) turns on, the bypass paper feed clutch (BYPFCL) turns off.

(e): 35 ms after the registration switch (RSW) turns on, the bypass feed clutch (BYPFCL) turns off.

(1): 48 ms after image ready signal turns on, the registration clutch (RCL) turns on, and the right registration roller rotates to start secondary paper feed.

(9):124 ms after the trailing edge of the paper turns the registration switch (RSW) off, the registration clutch (RCL) turns off.

## 2-1-2 Main charging section

The main charging section consists of the main charger assembly, drum and so on. The drum is electrically charged uniformly (500  $\mu$ A) by means of a grid to form a latent image on the surface.

The main charger unit charges the drum so that a latent image is formed on the surface, the shield grid ensuring the charge is applied uniformly.

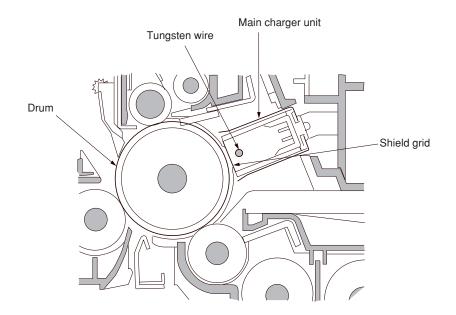


Figure 2-1-5 Main charging section

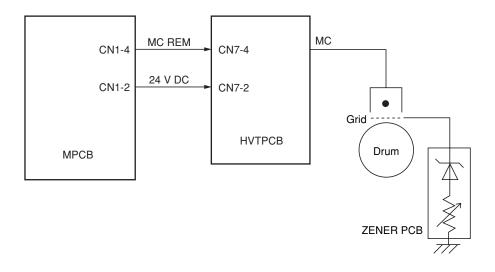
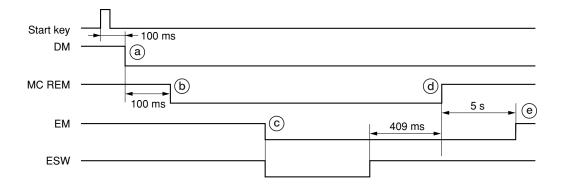


Figure 2-1-6 Main charging section block diagram



#### Timing chart 2-1-3 Main charging section operation

(a):100 ms after the start key is pressed, the drive motor (DM) turns on.
(b):100 ms after the drive motor (DM) turns on, main charging (MC REM) starts.

(c): The leading edge of the paper turns on the eject switch (ESW), and at the same time the eject motor (EM) turns on.
(d):409 ms after the paper is ejected and the eject switch (ESW) turns off, main charging (MC REM) ends.
(e): 5 s after the end of main charging (MC REM), the eject motor (EM) turns off.

The optical section consists of the scanner, mirror frame and image scanning unit for scanning and the laser scanner unit for printing.

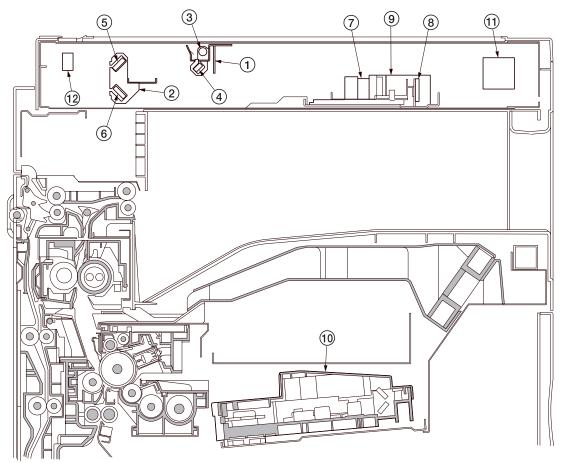


Figure 2-1-7 Optical section

- Mirror 1 frame
   Mirror 2 frame
   Exposure lamp (EL)
   Mirror 1
   Mirror 2
   Mirror 3
   Lens
   CCD PCB (CCDPCB)
   Image scanning unit
   Laser scanner unit (LS)
- 1 Laser scanner unit (LSU)
- (1) Scanner motor (SM)
  (2) Scanner home position switch (SHPSW)

#### (1) Original scanning

The original image is illuminated by the exposure lamp (EL) and scanned by the CCD PCB (CCDPCB) in the image scanning unit via the three mirrors, the reflected light being converted to an electrical signal.

The scanner and mirror frames travel to scan on the optical rails on the front and rear of the machine to scan from side to side. The speed of the mirror frames is half the speed of the scanner.

When the DF\* is used, the scanner and mirror frames stop at the DF original scanning position to start scanning. \* Optional.

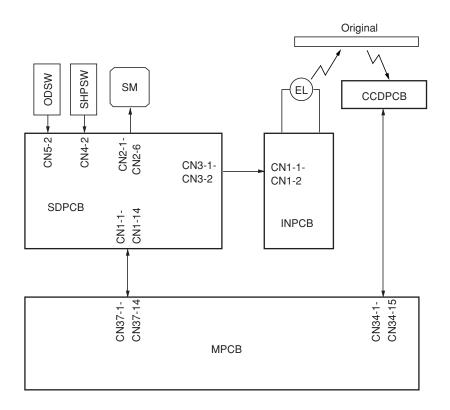
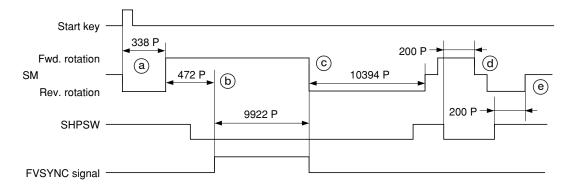


Figure 2-1-8 Optional section block diagram

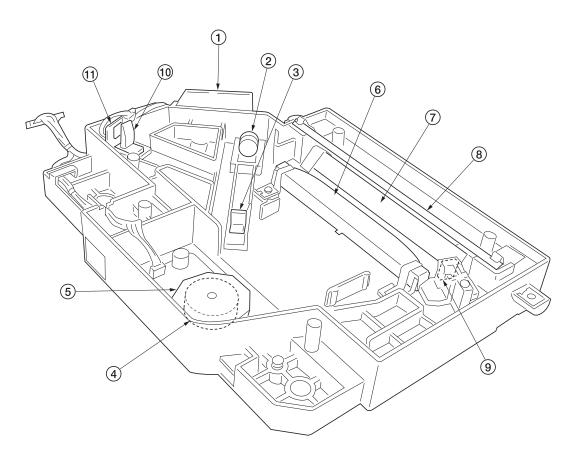


#### Timing chart 2-1-4 Scanner operation

- (a): When the start key is pressed, the scanner motor (SM) reverses for 338 pulses and then rotates forward.
- (b): 472 pulses after the scanner motor (SM) starts rotating forward, the FVSYNC signal turns on for 9922 pulses for scanning.
- ©: The scanner motor (SM) reverses for 10394 pulses and then rotates forward.
- (d): 200 pulses after the scanner home position switch (SHPSW) turns on, the scanner motor (SM) reverses.
- (e): 200 pulses after the scanner home position switch (SHPSW) turns off, the scanner motor (SM) turns off, and the scanner stops at its home position.

#### (2) Image printing

The image data scanned by the CCD PCB (CCDPCB) is processed on the main PCB (MPCB) and transmitted as image printing data to the laser scanner unit (LSU). By repeatedly turning the laser on and off, the laser scanner unit forms a latent image on the drum surface.



#### Figure 2-1-9 Laser scanner unit (1)

Laser diode PCB (LDPCB)
 Collimator lens
 Cylindrical lens
 Polygon motor (PM)
 Polygon mirror
 f0 lens
 Mirror
 BD sensor mirror
 Cylindrical correcting lens
 BD sensor

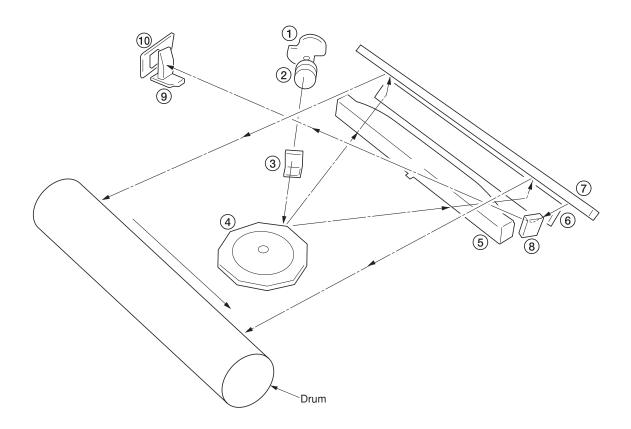


Figure 2-1-10 Laser scanner unit (2)

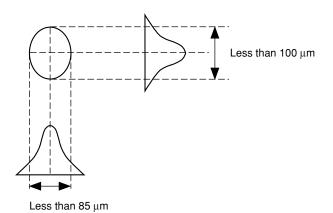
(1) Laser diode: Generates the laser beam which forms a latent image on the drum.

② Collimator lens: Collimates the diffused laser beam emitted from the laser diode to convert it into a cylindrical beam.

- $\overline{(3)}$  Cylindrical lens: Shapes the collimated laser beam to suit the printing resolution.
- (4) Polygon mirror: Six-facet mirror that rotates at approximately 28031 rpm with each face reflecting the laser beam toward the drum for one main-direction scan.
- (5) f0 lens: Corrects for non-linearity of the laser beam scanning speed on the drum surface, keeps the beam diameter constant and corrects for the vertical alignment of the polygon mirror to ensure that the focal plane of the laser beam is on the drum surface.
- (6) Mirror: Reflects the laser beam and changes the irradiation direction.
- ⑦ Mirror: Reflects the laser beam and changes the irradiation direction.

(8) BD sensor mirror: Reflects the laser beam to the BD sensor to generate the main-direction (horizontal) sync signal.

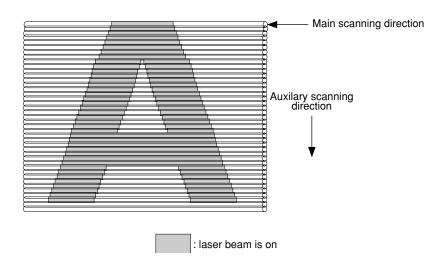
- (9) Cylindrical correcting lens: Corrects for the deviation of the laser beam reflected by the BD sensor mirror to the BD sensor.
- (1) BD sensor: Detects the beam reflected by the BD sensor mirror, outputting a signal to the main PCB (MPCB) to provide timing for the main-direction sync signal.



#### Figure 2-1-11

Scanning in the main direction is provided by the rotating polygon mirror, while scanning in the auxiliary direction is provided by the rotating drum, forming a static latent image on the drum. The static latent image of the letter "A", for example, is formed on the drum surface as shown in Figure 2-1-12. Electrical charge is dissipated on the area of the drum surface irradiated by the laser.

The focal point of the laser beam is moved line by line, and adjacent lines slightly overlap each other.





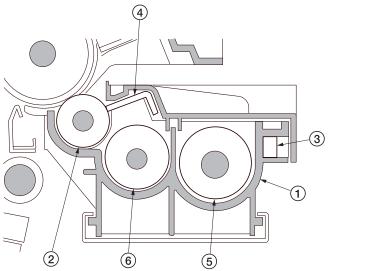
## 2-1-4 Developing section

The developing section consists of the developing unit and the toner container.

The developing unit consists of the developing roller where a magnetic brush is formed, the doctor blade and the developing spirals that agitate the toner.

When the toner sensor (TNS) detects a low toner level in the developing unit, the toner replenishment signal is output to the main PCB (MPCB). The main PCB (MPCB) that has received the signal turns on the toner replenishment solenoid (TNFSOL) and replenishes toner from the toner container to the developing unit.

Also, the toner container sensor (TCS) checks whether or not toner remains in the toner container.



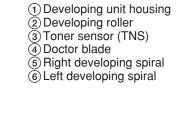


Figure 2-1-13 Developing section

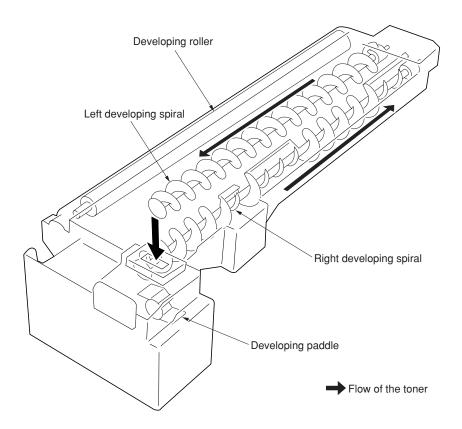
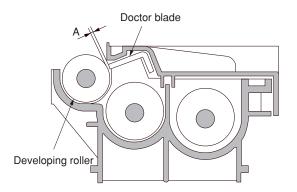
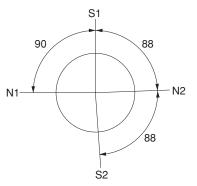


Figure 2-1-14 Flow of the toner

The developing roller consists of a magnet roller with four poles and a sleeve roller. Rotation of the sleeve roller around the magnet roller entrains toner, which in turn forms a magnetic brush at pole N1 on the magnet roller. The height of the magnetic brush is regulated by the doctor blade; the developing result is affected by the position of the poles on the magnet roller and the position of the doctor blade.

A developing bias voltage generated by the high-voltage transformer PCB (HVTPCB) is applied to the developing roller to provide image contrast.

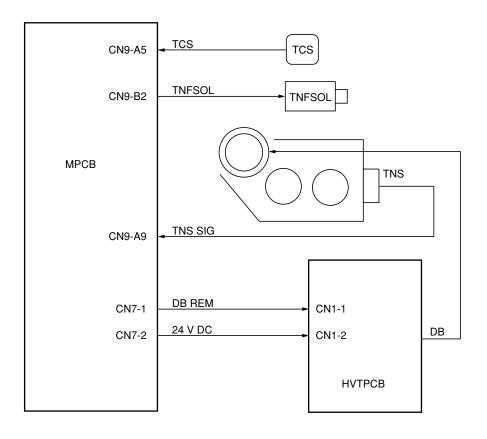




A: Distance between the doctor blade and developing roller; 0.23 to 0.35 mm



Figure 2-1-15 Forming a magnetic brush



## (2) Computing the absolute humidity

The humidity sensor (HUMSENS) converts the relative humidity detected by the humidity sensing element into a voltage and sends it to the main PCB (MPCB). The main PCB (MPCB) computes the absolute humidity based on this HUMSENS signal and the temperature (ETTH signal) detected by the external temperature thermistor (ETTH).

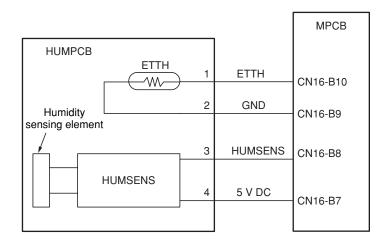


Figure 2-1-17 Absolute humidity computation block diagram

#### (3) Single component developing system

This machine uses the single component developing system, and reversal processing is performed with a + charged drum (a-Si) and a + charged magnetic toner.

With the single component developing system, toner is electrically charged by friction with the developing sleeve and + charged when it passes through the magnetic doctor blade. The toner that has passed through the magnetic doctor blade forms a uniform layer on the developing sleeve. When the toner layer comes to the location where the developing sleeve is the nearest to the drum, toner moves between the drum and the developing sleeve by an electric field of the magnetic pole. Then, when the developing sleeve rotates and passes through the nearest location to the drum, on the portion of the drum that has been exposed to light, toner is attracted toward the drum by potential difference between the developing bias and the drum surface and development is performed. On the other hand, on the portion of the drum that has not been exposed to light, toner is attracted toward the sleeve and development is not performed. When toner comes to an area where the gap between the drum and the developing sleeve is large, an electric field disappears and toner does not leave the developing sleeve. Development is complete.

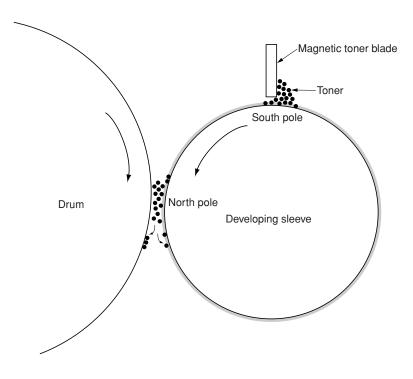


Figure 2-1-17-1 Single component developing system

#### **Developing bias parameters**

For the bias to the developing sleeve, an alternating current (AC) is applied. Parameters for the developing bias are shown below.

Vp-p: Difference between the maximum and the minimum of applied voltage

1.72 kV (fixed)

Vf: Frequency

Typically 2.6 kHz. This value varies depending on the preset value of the drum surface potential and the environmental correction. (Can be adjusted with the maintenance item U101.)

Duty: Ratio of time where + voltage is applied in a cycle

Typically 45%. This value varies depending on the preset value of the drum surface potential and the environmental correction. (Can be adjusted with the maintenance item U101.)

Vde: Developing shift bias potential 160 V (Can be changed to 180 V with the maintenance item U101)

Supplementation

V0: Drum surface potential on non-image area (area not exposed to light)

VL: Drum surface potential on image area (area exposed to light)

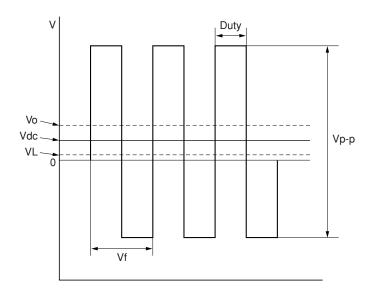


Figure 2-1-17-2 Developing bias waveform

## 2-1-5 Transfer and separation sections

The transfer and separation section consists mainly of the transfer roller, separation electrode and drum separation claws.

A high voltage generated by the high-voltage transformer PCB (HVTPCB) is applied to the transfer roller for transfer charging (100  $\mu$ A).

aper after transfer is separated from the drum by applying separation bias that is output from the high-voltage transformer PCB (HVTPCB) to the separation electrode (60 or 10  $\mu$ A depending on the paper).

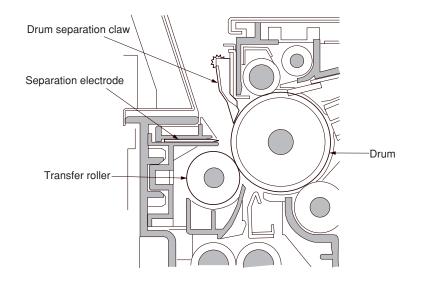


Figure 2-1-18 Transfer and separation sections

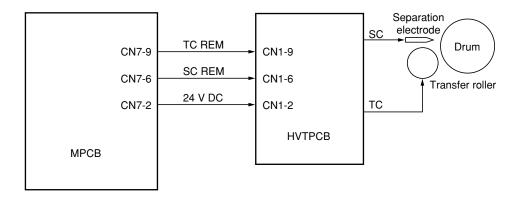
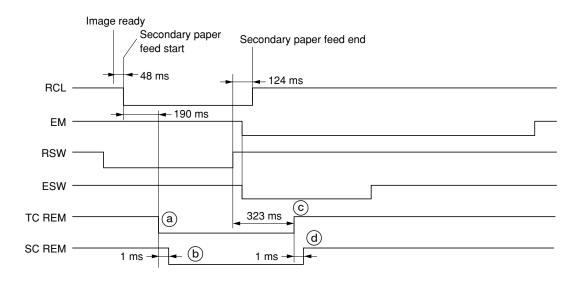


Figure 2-1-19 Transfer and separation sections block diagram



#### Timing chart 2-1-5 Transfer and separation sections operation

(a): 190 ms after the registration clutch (RCL) turns on to start secondary paper feed, transfer charging (TC REM) starts.
(b): 1 ms after transfer charging (TC REM) starts, separation bias (SC REM) turns on.
(c): 323 ms after the trailing edge of the paper turns the registration switch (RSW) off, transfer charging (TC REM) ends.
(d): 1 ms after transfer charging (TC REM) ends, separation bias (SC REM) turns off.

## 2-1-6 Cleaning and charge erasing sections

The cleaning section consists of the cleaning blade that removes residual toner from the drum surface after the transfer process, and the cleaning spiral that carries the residual toner back to the waste toner tank. The cleaning lamp (CL) consists of LEDs and removes residual charge on the drum before main charging. Also the toner quantity in the waste toner tank is sensed with the overflow sensor (OFS).

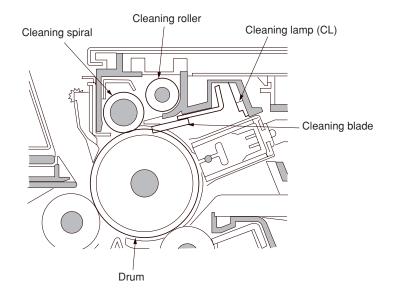


Figure 2-1-20 Cleaning and charge erasing sections

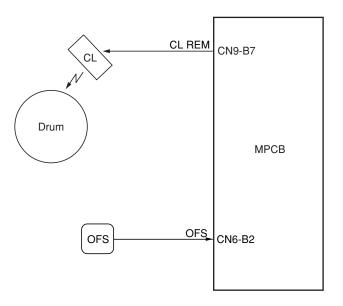
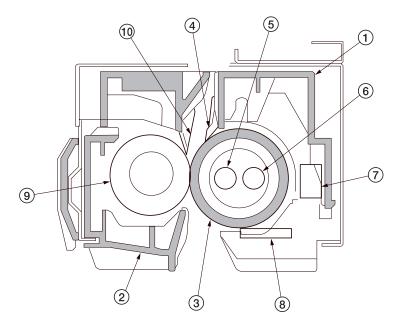


Figure 2-1-21 Cleaning and charge erasing sections block diagram

### 2-1-7 Fixing section

The fixing section consists of the parts shown in Figure 2-1-22. When paper reaches the fixing section after the transfer process, it passes between the press roller and heat roller, which is heated by fixing heaters M or S (FH-M or FH-S). Pressure is applied by the fixing unit pressure springs so that the toner on the paper is melted, fused and fixed onto the paper. The heat roller is heated by fixing heaters M or S (FH-M or FH-S) inside it; its surface temperature is detected by the fixing unit thermistor (FTH) and is regulated by the fixing heaters turning on and off.

If the fixing section becomes abnormally hot, fixing unit thermostat (FTS) operates shutting the power to the fixing heaters off. When the fixing process is completed, the paper is separated from the heat roller by its separation claws and is conveyed from the copier to eject and switchback section.



Upper fixing unit cover
 Fixing housing
 Heat roller
 Heat roller separation claw
 Fixing heater M (FH-M)
 Fixing heater S (FH-S)
 Fixing unit thermostat (FTS)
 Fixing unit thermistor (FTH)
 Press roller
 Press roller separation claw

Figure 2-1-22 Fixing section

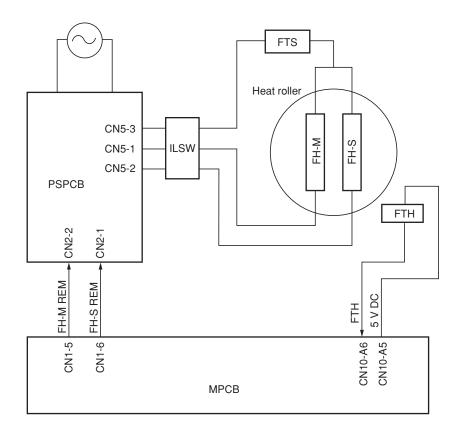
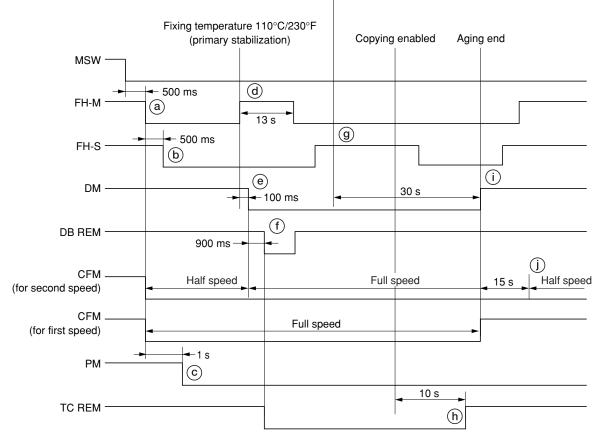


Figure 2-1-23 Fixing section block diagram



# Fixing temperature 165°C/329°F (secondary stabilization)

#### Timing chart 2-1-6 Fixing section operation

- (a): 500 ms after the main switch (MSW) is turned on, fixing heater M (FH-M) turns on to heat the heat roller. At the same time, cooling fan motor (CFM) turns on.
  - \* The fan motor for second speed rotates at half speed and the motor for first speed rotates at full speed.
- (b): 500 ms after fixing heater M (FH-M) turns on, fixing heater S (FH-S) turns on.
- ©: 1 s after fixing heater M (FH-M) turns on, the polygon motor (PM) of the laser scanner unit turns on.
- (d): When the fixing temperature reaches 110°C/230°F, the copier enters primary stabilization, and fixing heater M (FH-M) turns off temporarily and turns on again after 13 s.
- (e): 100 ms after the primary stabilization, the drive motor (DM) turns on. Also the cooling fan motor (for second speed) switches to full speed rotation.
- (f): 900 ms after the drive motor (DM) turns on, the developing bias (DB REM) turns on and at the same time transfer charging (TC REM) starts.
- (g): When the fixing temperature reaches 165°C/329°F, the copier enters secondary stabilization. Fixing heaters M and S (FH-M and FH-S) are turned on and off to keep the fixing temperature at 165°C/329°F and aging starts.
- (h): 10 s after copying is enabled, transfer charging (TC REM) ends.
- i: 30 s after the secondary stabilization, the drive motor (DM) turns off and the aging ends.
- (j): 15 s after the drive motor (DM) turns off, the cooling fan motor (for second speed) switches to half speed rotation.

The eject and switchback sections eject paper on which fixing has ended with the eject roller that is rotated by forward rotation of the eject motor.

In duplex copying, paper is turned over by reverse rotation of the eject motor. When paper is transferred to the job separator or the internal finisher, the feedshift solenoid (FSSOL) is turned on to activate the feedshift guide to switch the paper transfer path.

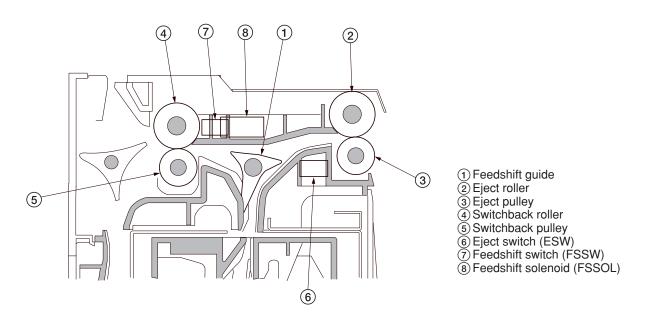


Figure 2-1-24 Eject and switchback sections

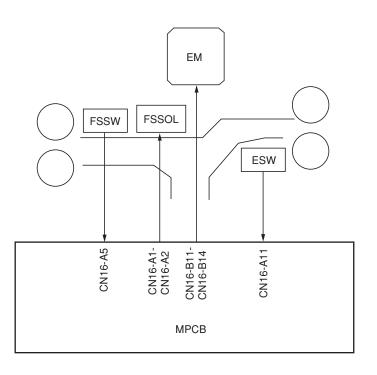
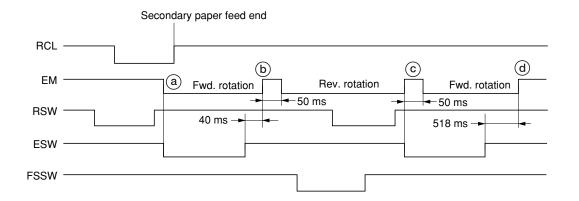


Figure 2-1-25 Eject and switchback sections block diagram

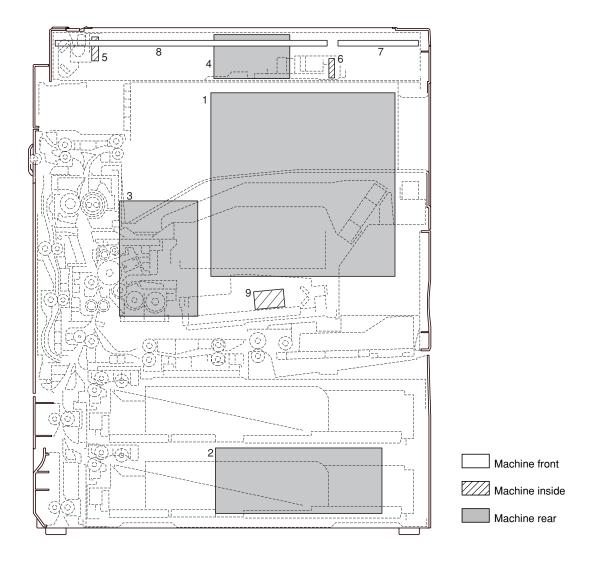


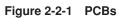
#### Timing chart 2-1-7 Eject and switchback sections operation

- (a): The leading edge of paper (front face) turns on the eject switch (ESW), and at the same time the eject motor (EM) starts forward rotation.
- (b): 40 ms after passing of the trailing edge of paper turns off the eject switch (ESW), the eject motor (EM) turns off for 50 ms and then starts reverse rotation.
- ©: The leading edge of paper (reverse face) turns on the eject switch (ESW), and at the same time the eject motor (EM) turns off for 50 ms and then starts forward rotation.
- (d): 518 ms after passing of the trailing edge of the paper turns off the eject switch (ESW), the eject motor (EM) turns off.

# 2-2-1 Electrical parts layout

# (1) PCBs





	Controls the other PCBs, electrical components and optional devices. Generates +24 V DC, 12 V DC and 5V DC; controls the fixing heater.
3. High-voltage transformer PCB	Main charging. Generates developing bias and high voltages for
	transfer.
4. Scanner drive PCB (SDPCB)	
5. Inverter PCB (INPCB)	Controls the exposure lamp.
6. CCD PCB (CCDPCB)	Reads the image off originals.
7. Right operation unit PCB (OPCB-R)	Consists of the operation keys and display LEDs.
8. Left operation unit PCB (OPCB-L)	Controls touch panel and LCD indication.
9. Laser diode PCB (LDPCB)	Generates and controls the laser light.

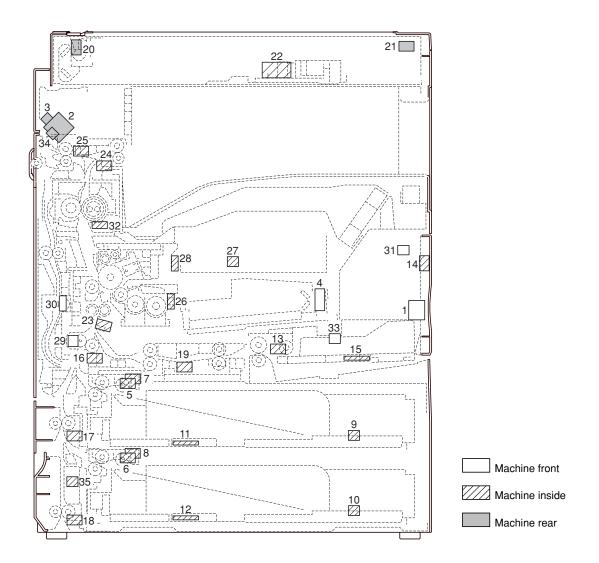
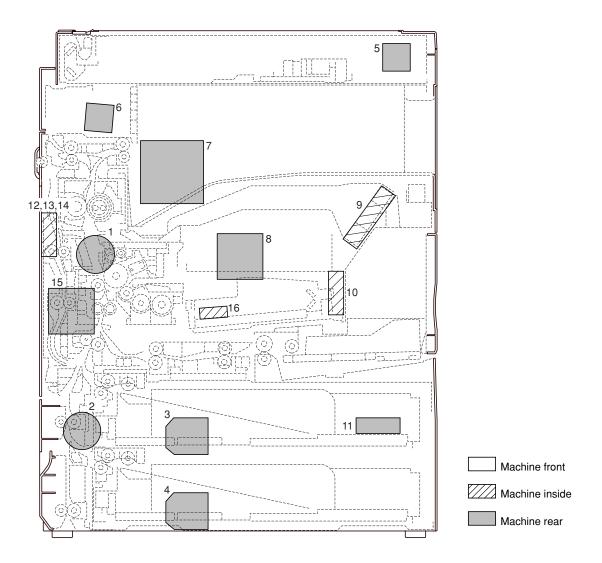


Figure 2-2-2 Switches and sensors

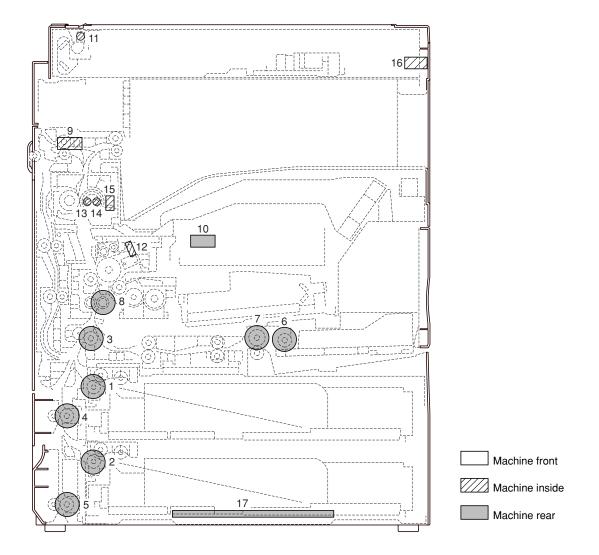
	. Turns the AC power on and off. . Turns the AC power for the fixing heater on and off. . Breaks the safety circuit when the front cover is opened.
4. Safety switch 2 (SSW2)	
	. Detects the presence of paper in the upper drawer.
6. Lower paper switch (PSW-L)	. Detects the presence of paper in the lower drawer.
<ol><li>Upper lift limit switch (LICSW-U)</li></ol>	. Detects the upper drawer lift reaching the upper limit.
8. Lower lift limit switch (LICSW-L)	. Detects the lower drawer lift reaching the upper limit.
<ol><li>Upper paper size length switch</li></ol>	
(PLSW-U)	. Detects the length of paper in the upper drawer.
10. Lower paper size length switch	
(PLSW-L)	. Detects the length of paper in the lower drawer.
11. Upper paper size width switch	
(PWSW-U)	. Detects the width of paper in the upper drawer.
12. Lower paper size width switch	
(PWSW-L)	. Detects the width of paper in the lower drawer.
13. Bypass paper switch (BYPPSW)	. Detects the presence of paper on the bypass tray.
14. Bypass paper size length switch	
(BYPPLSW)	. Detects the length of paper on the bypass tray.

15. Bypass paper size width switch	
(BYPPWSW)	Detects the width of paper on the bypass tray.
16. Feed switch 1 (FSW1)	Controls feed clutch 1 drive timing.
17. Feed switch 2 (FSW2)	Controls feed clutch 2 drive timing
18. Feed switch 3 (FSW3)	Controls feed clutch 3 drive timing
19. Bypass feed switch (BYPFSW)	Controls bypass feed clutch drive timing
20. Scanner home position switch (SHPSW)	Detects the optical system in the home position.
21. Original detection switch (ODSW)	Operates the original size detection sensor.
22. Original size detection sensor (OSDS)	Detects the size of the original.
23. Registration switch (RSW)	Controls the secondary paper feed start timing.
24. Eject switch (ESW)	Detects a paper misfeed in the fixing section.
25. Feedshift switch (FSSW)	Detects a paper misfeed in the switchback section in a duplex copy.
26. Toner sensor (TNS)	Detects the toner density in the developing unit.
27. Toner container detection switch	
(TCDSW)	Detects the presence of the toner container.
28. Toner container sensor (TCS)	Detects the quantity of toner in a toner container.
29. Toner disposal tank detection switch	
(TDDSW)	Detects the presence of the toner disposal tank.
	Detects when the toner disposal tank is full.
31. Humidity sensor (HUMSENS)	Detects absolute humidity.
32. Fixing unit thermistor (FTH)	Detects the heat roller temperature.
33. Front cover switch (FRCSW)	Detects the opening and closing of the front cover.
34. Conveying cover switch (CCSW)	Detects the opening and closing of the conveying cover.
35. Side cover switch (SCSW)	Detects the opening and closing of the side cover.



## Figure 2-2-3 Motors

1. Drive motor (DM)	Drives the machine.
2. Paper feed motor (PFM)	
3. Upper lift motor (LM-U)	
4. Lower lift motor (LM-L)	Drives lower drawer lift.
5. Scanner motor (SM)	Drives the optical system.
6. Eject motor (EM)	Drives the eject section.
7. Cooling fan motor 1 (CFM1)	Cools the machine interior.
8. Cooling fan motor 2 (CFM2)	Cools the machine interior.
9. Cooling fan motor 3 (CFM3)	Cools the machine interior.
10. Cooling fan motor 4 (CFM4)	Cools the machine interior (LSU).
11. Cooling fan motor 5 (CFM5)	Cools the machine interior (around the power supply unit).
12. Cooling fan motor 6 (CFM6)	Cools the machine interior and supports paper transfer for duplex copying.
13. Cooling fan motor 7 (CFM7)	Cools the machine interior and supports paper transfer for duplex copying.
14. Cooling fan motor 8 (CFM8)	Cools the machine interior and supports paper transfer for duplex copying.
15. Cooling fan motor 9 (CFM9)	Cools the machine interior.
16. Polygon motor (PM)	Drives the polygon mirror.



## Figure 2-2-4 Other electrical components

## 2DF

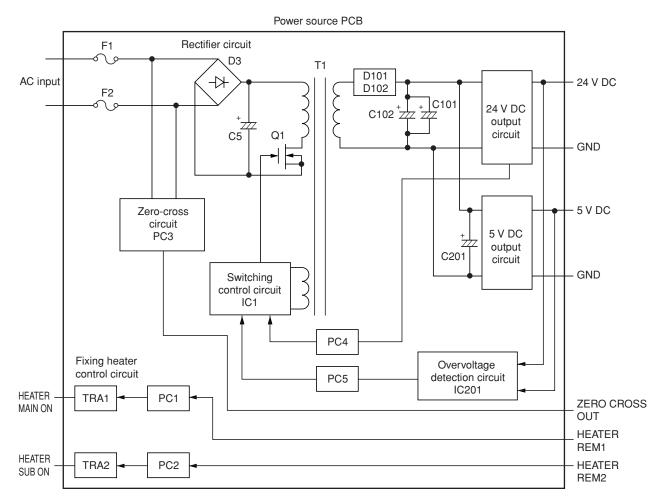


Figure 2-3-1 Power source PCB block diagram

The power source PCB (PSPCB) is a switching regulator that converts an AC input to generate 24 V DC and 5 V DC. It includes a rectifier circuit, a switching regulator circuit, a 24 V DC output circuit, a 5 V DC output circuit and a fixing heater control circuit.

The rectifier circuit full-wave rectifies the AC input using the diode bridge D3. The smoothing capacitor C5 smoothes out the pulsed current from the diode bridge.

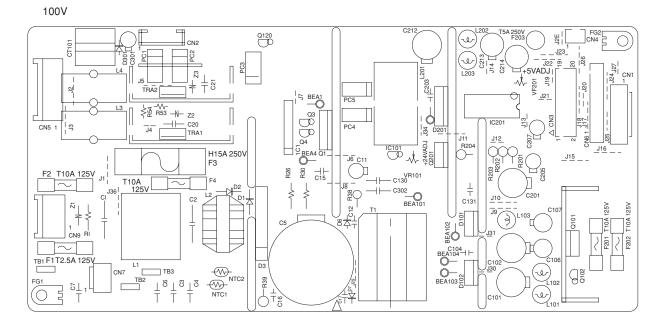
In the switching control circuit, PWM controller IC1 turns the power MOSFET Q1 on and off to switch the current induced in the primary coil of the transformer T1.

The 24 V DC output circuit smoothes the current induced in the secondary coil of the transformer T1 via diodes D101 and D102 and smoothing capacitors C101 and C102, and the output is controlled by the overvoltage detection circuit IC201 and the power MOSFET Q201. For 24 V DC output, the PWM controller IC (IC1) of the switching control circuit changes the duty of the switching pulse width of the power MOSFET Q1 via a photo coupler PC4 based on the output voltage status to adjust the 24 V DC output.

The 5 V DC output circuit smoothes the current induced in the secondary coil of the transformer T1 via diodes D101 and D102 and smoothing capacitors C101 and C102, and the output is controlled by the overvoltage detection circuit IC201 and the power MOSFET Q201. For 5 V DC output, the PWM controller IC (IC1) of the switching control circuit changes the duty of the switching pulse width of the power MOSFET Q1 via a photo coupler PC5 based on the output voltage status to adjust the 5 V DC output.

The overvoltage detection circuit IC201 monitors the overvoltage status of 24 V DC and 5 V DC, and when it detects an abnormal status, it gives immediately feedback to the PWM controller IC (IC1) via a photocoupler PC5 to stop control operation and moves the power source to a standby condition.

The fixing heater control circuit sends a waveform of which zero-cross is detected to the main PCB (MPCB), which controls the timing of HEATER REM 1 and 2 based on it to turn on the phototriacs PC1 and PC2. When the phototriacs PC1 and PC2 turn on, AC current flows through the triacs TRA1 and TRA2 to turn the fixing heaters M and S on.



200V

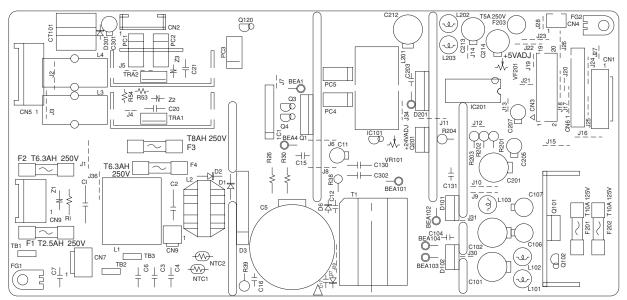
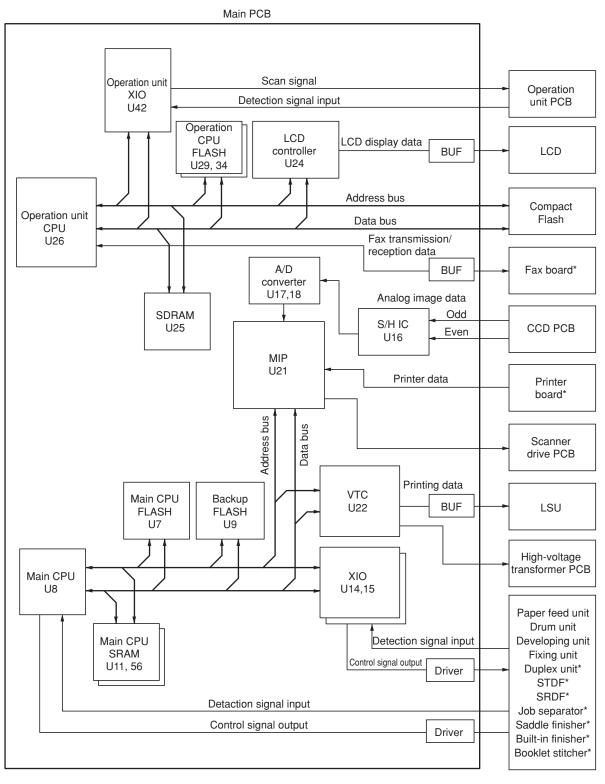


Figure 2-3-2 Power source PCB silk-screen diagram

Termin	als (CN)	Voltage	Remarks
TB-1	TB-2	120V AC	120 V AC supply, input
TB-1	TB-2	220-240 V AC	220-240 V AC supply, input
1-1	1-2	24 V DC	24 V DC supply for SSW1, output
1-5	1-2	5 V DC	5 V DC supply for MPCB, output
1-6	1-2	24 V DC	24 V DC supply for MPCB, output
2-1	2-2	0 - 5 V DC	Heater current monitor signal, output
2-3	2-2	0/5 V DC	FH-S on/off, input
2-4	2-2	0/5 V DC	FH-M on/off, input
2-5	2-2	5 V DC	5 V DC supply from MPCB, input
2-6	2-2	0/5 V DC (pulse)	Zero-cross signal, input
2-7	2-2	0/5 V DC	CFM5 remote signal, input
2-8	2-2	0/5 V DC	SLEEP singal, input
3-1	3-5	24 V DC	24 V DC supply for finisher*, output
3-2	3-6	24 V DC	24 V DC supply for finisher*, output
3-3	3-7	24 V DC	24 V DC supply for finisher*, output
3-4	3-8	24 V DC	24 V DC supply for finisher*, output
3-9	3-10	5 V DC	5 V DC supply for finisher*, output
3-11	3-12	5 V DC	5 V DC supply for large paper deck*/paper feed desk*, output
3-14	3-13	24 V DC	24 V DC supply for large paper deck*/paper feed desk*, output
3-15	3-18	24 V DC	24 V DC supply for mailbox*, output
3-16	3-19	24 V DC	24 V DC supply for mailbox*, output
3-17	3-20	5 V DC	5 V DC supply for mailbox*, output
4-1	6-1	0/24 V DC	CFM5 on/off, output
4-2	6-1	24 V DC	24 V DC supply for CFM5, output
5-1	5-3	120/0 V AC	FH-M on/off, output
5-1	5-3	220-240/0 V AC	FH-M on/off, output
5-2	5-3	120/0 V AC	FH-S on/off, output
5-2	5-3	220-240/0 V AC	FH-S on/off, output
6-2	6-1	24 V DC	24 V DC supply for SDPCB, output
6-4	6-3	5 V DC	5 V DC supply for SDPCB, output
6-5	6-7	24 V DC	24 V DC supply for STDF*/SRDF*, output
6-6	6-8	24 V DC	24 V DC supply for STDF*/SRDF*, output
6-9	6-11	5 V DC	5 V DC supply for STDF*/SRDF*, output
6-10	6-12	5 V DC	5 V DC supply for STDF*/SRDF*, output
9-1	TB-2	120 V AC	120 V AC supply for MSW, output
9-1	TB-2	220-240 V AC	220-240 V AC supply for MSW, output

\*Optional.

## 2-3-2 Main PCB



\*Optional.

Figure 2-3-3 Main PCB block diagram

The main PCB (MPCB) consists of the main CPU and operation unit CPU. The main CPU U8 communicates with other PCBs, the image processing system and the engine drive system. The operation unit CPU U26 controls the LCD display and the entire operation section.

The main CPU U8 operates on an 8-bit bus. It uses the SRAM U11 and U56 for work memory and FLASH U9 for backup memory. In accordance with the control program in the main CPU FLASH U7, the main CPU U8 communicates with the operation unit CPU and optional devices via the serial communication function in the CPU and XIO U14 and U15. The main CPU U8 controls the CCD PCB (CCDPCB), which is for image input control, and the LSU, which is for image output control via the image processing ASIC MIP U21, and drives the machine, conveys paper and detects abnormalities via XIO U14, U15 and U22.

The operation unit CPU U26 operates on an 32-bit bus. It uses the SRAM U25 for work memory. In accordance with the control program in the main CPU FLASH U29, which also contains LCD display fonts, the operation unit CPU U26 controls key switches and LEDs on the operation unit PCB (OPCB) and controls the LCD display via the LCD controller U24.

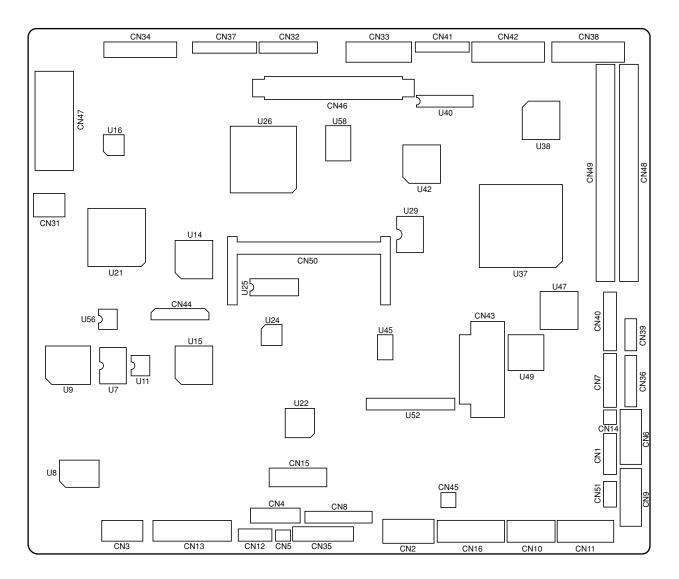


Figure 2-3-4 Main PCB silk-screen diagram

Termina	als (CN)	Voltage	Remarks
1-1	1-7	0/5 V DC	SLEEP signal, output
1-2	1-7	0/5 V DC	CFM5 remote signal, output
1-3	1-7	0/5 V DC (pulse)	Zero-cross signal, input
1-4	1-7	5 V DC	5V DC supply for PSPCB, output
1-5	1-7	0/5 V DC	FH-M on/off, output
1-6	1-7	0/5 V DC	FH-S on/off, output
1-8	1-7	0 - 5 V DC	Heater current monitor signal, input
2-1	2-2	24 V DC	24 V DC supply from SSW2, input
2-5	2-2	5 V DC	5 V DC supply from PSPCB, input
2-6	2-2	24 V DC	24 V DC supply from PSPCB, input
3-A1	3-A2	0/5 V DC (pulse)	Serial signal for mailbox*, input
3-A3	3-A4	0/5 V DC (pulse)	Serial signal from mailbox*, output
3-A5	3-A4	0/5 V DC	Mailbox* connection signal, input
3-A6	3-A4	0/5 V DC	RESET signal for mailbox*, output
3-B1	3-B2	0/5 V DC (pulse)	Serial signal for large paper deck*/paper feed desk*, output
3-B3	3-B4	0/5 V DC (pulse)	Serial signal from large paper deck*/paper feed desk*, input
3-B5	3-B4	0/5 V DC	FSW on/off signal from large paper deck*/paper feed desk*, input
3-B6	3-B4	0/5 V DC	RESET signal for large paper deck*/paper feed desk*, output
4-1	4-2	0/5 V DC (pulse)	Serial signal from finisher*, input
4-3	4-4	0/5 V DC (pulse)	Serial signal for finisher*, output
5-1	4-4	0/5 V DC	RESET signal for finisher*, output
5-2	4-4	0/5 V DC	Finisher* connection signal, input
6-A1	6-A4	0/5 V DC	BYPPWSW paper width detection signal, input
6-A2	6-A4	0/5 V DC	BYPPWSW paper width detection signal, input
6-A3	6-A4	0/5 V DC	BYPPWSW paper width detection signal, input
6-A5	6-A4	5 V DC	5 V DC supply for BYPPSW, output
6-A6	6-A4	0/5 V DC	BYPPSW on/off, input
6-A8	6-A7	24 V DC	24 V DC supply for BYPPFCL, output
6-A9	6-A7	0/24 V DC	BYPPFCL on/off, output
6-A10	6-A7	24 V DC	24 V DC supply for BYPFCL, output
6-A11	6-A7	0/24 V DC	BYPFCL on/off, output
6-B1	6-B3	5 V DC	5 V DC supply for OFS, output
6-B2	6-B3	0/5 V DC	OFS on/off, input
6-B4	6-B5	0/5 V DC	TDDSW on/off, input
6-B6	6-B7	0/5 V DC	FRCSW on/off, input
6-B8	6-B9	0/24V DC	CFM3 on/off, output
6-B10	6-B12	5 V DC	5 V DC supply for BYPPLSW, output
6-B11	6-B12	0/5 V DC	BYPPLSW on/off, input
7-1	7-3	0 - 5 V DC	Developing bias control voltage, output
7-2	7-3	24 V DC	24 V DC supply for HVTPCB, output
7-4	7-3	0/5 V DC	Main charging on/off, output
7-5	7-3	0/5 V DC (pulse)	Developing bias CLOCK signal, output
7-6	7-3	0/5 V DC	Separation charging on/off, output
7-7	7-3	0 - 5 V DC	Separation charging control voltage, output
7-8	7-3	0 - 5 V DC	Transfer charging control voltage, output
7-9	7-3	0 - 5 V DC	Transfer limit voltage, output
7-10	7-3	0/5 V DC	Transfer charging on/off, output
7-11	7-3	0/5 V DC	Transfer reverse bias remote signal, output
7-12	7-3	0/5 V DC	Transfer forward bias remote signal, output
7-13	7-3	0/5 V DC	Transfer current detection signal, input
7-14	7-3	0/5 V DC	Transfer current detection signal, input
8-1	8-7	5 V DC	5 V DC supply for LSU, output
8-2	8-7	0/5 V DC	LSU SAMPLE signal, output
8-3	8-7	0/5 V DC	LSU POWCONT signal, output
8-4	8-7	0/5 V DC	LSU LASER signal, output
8-5	8-7	0/5 V DC	LSU VIDEO + signal, output
*Optional		1	

2DF

8-8         8-7         05 V DC         LSU VIDEO-signal, output           8-10         8-11         24 V DC         24 V DC supply for PM, output           8-12         8-11         0/24 V DC         PM SGAN signal, output           8-13         8-9         0.5 V DC         PM READ's signal, input           8-14         8-11         0.5 V DC         PM READ's signal, output           8-14         8-11         0.5 V DC         SV DC supply for TSC, output           9-A3         9-A1         0.5 V DC         5 V DC supply for TNS, output           9-A4         9-A6         5 V DC         5 V DC supply for TNS, output           9-A4         9-A6         0.5 V DC         5 V DC supply for TNS, output           9-A8         9-A10         0.5 V DC         Developing unit detection signal, input           9-A11         9-A10         0.5 V DC         Developing unit detection signal, output           9-A12         9-A10         0.5 V DC         Developing unit detection signal, input           9-B3         9-B4         0.5 V DC         Developing unit detection signal, input           9-B43         9-B44         0.5 V DC         Developing unit detection signal, input           9-B43         9-B45         0.5 V DC         Durm unit CLOCK sig	Termina	als (CN)	Voltage	Remarks
8-10         8-11         24 V DC         PAV VDC signal, output           8-12         8-11         0/5 V DC         PM READY signal, input           8-13         8-9         0/5 V DC         PM READY signal, input           8-14         8-11         0/5 V DC         PM CLOCK signal, output           9-A2         9-A1         0/5 V DC         SV DC SV DC supply for TCS, output           9-A3         9-A4         5 V DC         5 V DC supply for TCS, output           9-A4         9-A6         5 V DC         5 V DC supply for TCS, output           9-A4         9-A6         0/5 V DC         TCS on/off, input           9-A4         9-A6         0/5 V DC         TCS on/off, input           9-A4         9-A10         0/5 V DC         TCS on/off, input           9-A11         0/5 V DC         TCS on/off, input           9-A12         9-A10         0/5 V DC         TCSSW on/off, input           9-A12         9-A10         0/5 V DC         TCSSW on/off, input           9-B3         9-B4         0/5 V DC         Drum unit DATA signal, output           9-B42         9-B10         0/5 V DC         Drum unit DATA signal, output           9-B42         9-B10         5 V DC         S V DC supply for FTH,	8-6	8-7	0/5 V DC	LSU VIDEO - signal, output
B-12         B-11         0/24 V DC         PM SCAN signal, output           8-13         B-11         0/5 V DC         PM READY signal, input           9-A2         9-A1         0/5 V DC         BVTFSW on/off, input           9-A2         9-A1         0/5 V DC         SV DC supply for TCS, output           9-A4         9-A6         5 V DC         5 V DC supply for TCS, output           9-A4         9-A6         0/5 V DC         TCS on/off, input           9-A4         9-A10         0/5 V DC         TCS on/off, input           9-A4         9-A10         0/5 V DC         Developing unit detection signal, input           9-A11         9-A10         0/5 V DC         Developing unit detection signal, output           9-A11         9-A10         0/5 V DC         Developing unit detection signal, output           9-B2         9-B41         0/24 V DC         TNS on/off, input           9-B3         9-B6         0/5 V DC         Durum unit CLOCK signal, output           9-B3         9-B6         0/5 V DC         Durum unit detection signal, input           9-B41         9-B10         0/5 V DC         Durum unit detection signal, output           9-B43         9-B6         0/5 V DC         Durum unit detection signal, input	8-8	8-9	0/5 V DC	LSU PD signal, input
B-13         B-9         Dis V DC         PM READY signal, input           B-14         0.5 V DC         PM CLOCK signal, output           9-A2         9-A1         0.5 V DC         BYPFSW on/of, input           9-A3         9-A6         5 V DC         5 V DC supply for TOS, output           9-A5         9-A6         0.5 V DC         5 V DC supply for TOS, output           9-A8         9-A10         0.5 V DC         TOS on/of, input           9-A9         9-A10         0.5 V DC         TOS comply for TNS, output           9-A11         9-A10         0.5 V DC         TOS on/of, input           9-A11         9-A10         0.5 V DC         Developing unit PUSE CUT signal, output           9-A11         9-A10         0.5 V DC         TOS SW on/of, input           9-A11         9-A10         0.5 V DC         TOS SW on/of, input           9-B3         9-B4         0.5 V DC         TOR munit DLOCCK signal, output           9-B3         9-B4         0.5 V DC         Drum unit DLATA signal, output           9-B4         0.5 V DC         SV DC SV DC SV DVG SV DC         SV DC supply for ASW output           10-A2         10-A1         0.5 V DC         SV DC SV DC SV DC SV DC SV DC SV DC SV DC SV DC SUPPL SW           9-B12	8-10	8-11	24 V DC	24 V DC supply for PM, output
8-14         8-11         0% V DC (pulse)         PM CLOCK signal, output           9-A2         9-A1         5 V DC         BY PFSW on/off, input           9-A3         9-A1         5 V DC         5 V DC supply for TCS, output           9-A4         9-A6         5 V DC         TCS on/off, input           9-A8         9-A10         5 V DC         TCS on/off, input           9-A8         9-A10         05 V DC         TCS on/off, input           9-A8         9-A10         05 V DC         TCS on/off, input           9-A11         9-A10         05 V DC         Developing unit detection signal, input           9-A11         9-A10         05 V DC         Developing unit CMSCK signal, output           9-B2         9-B1         0/24 V DC         TNFSOL on/off, output           9-B2         9-B4         0/5 V DC         Drum unit DATA signal, output           9-B8         9-B6         0/5 V DC         Drum unit detection signal, input           9-B11         9-B10         0/5 V DC         Drum unit detection signal, input           9-B31         9-B10         0/5 V DC         S V DC supply for TMN, output           10-A2         10-A1         0/5 V DC         S V DC supply for FTH, output           10-A2	8-12	8-11	0/24 V DC	PM SCAN signal, output
9-A2         9-A1         05 V DC         BYPESW on/off, input           9-A3         9-A1         5 V DC         5 V DC supply for TSW, output           9-A4         9-A6         5 V DC         5 V DC supply for TSW, output           9-A5         9-A6         0.5 V DC         5 V DC supply for TNS, output           9-A8         9-A10         0.5 V DC         DV DC supply for TNS, output           9-A11         9-A10         0.5 V DC         Developing unit FUSE CUT signal, output           9-A2         9-A10         0.5 V DC         DEveloping unit FUSE CUT signal, output           9-B3         9-B4         0.5 V DC         DEveloping unit full detection signal, input           9-B3         9-B6         0.5 V DC         DESW on/off, input           9-B4         0.5 V DC         DESW on/off, input           9-B8         9-B6         0.5 V DC         Drum unit DATA signal, output           9-B42         10-A1         0.5 V DC         S V DC supply for TMS, output           10-A2         10-A1         5 V DC         S V DC supply for AU           10-A3         10-A4         5 V DC         S V DC supply for AU           10-A5         10-A8         5 V DC         S V DC supply for TH, output           10-A6         <	8-13	8-9	0/5 V DC	PM READY signal, input
9.A4         9.A6         5 V DC         5 V DC supply for TXPSW, output           9.A5         9.A6         0.5 V DC         5 V DC supply for TXS, output           9.A8         9.A10         0.5 V DC         5 V DC supply for TXS, output           9.A8         9.A10         0.5 V DC         5 V DC supply for TXS, output           9.A1         9.A10         0.5 V DC         Developing unit detection signal, input           9.A11         9.A10         0.5 V DC         Developing unit FUSE CUT signal, output           9.A11         9.A10         0.5 V DC         Developing unit FUSE CUT signal, output           9.B2         9.B1         0.5 V DC         TCDSW on/off, input           9.B3         9.B4         0.5 V DC         Drum unit OLOCK signal, output           9.B4         9.B5         0.5 V DC         Drum unit OLOCK signal, output           9.B11         9.B10         0.5 V DC         TDrum unit CLOCK signal, output           9.B4         0.65 V DC         5 V DC supply for drum unit, output           10-A2         10-A1         5 V DC         5 V DC supply for TH, output           10-A2         10-A1         5 V DC         5 V DC supply for DVPCCL, output           10-A3         10-A1         5 V DC         5 V DC supply for DVPCL, outp	8-14	8-11	0/5 V DC (pulse)	PM CLOCK signal, output
9-A6         9-A6         5 V DC         5 V DC supply for TCS, output           9-A5         9-A6         0.5 V DC         TCS on/off, input           9-A9         9-A10         0.5 V DC         TCS on/off, input           9-A9         9-A10         0.5 V DC         Developing unit detection signal, input           9-A11         9-A10         0.5 V DC         Developing unit FUSE CUT signal, output           9-A12         9-A10         0.5 V DC         Developing unit FUSE CUT signal, output           9-B2         9-B1         0.62 V DC         TCDSW on/off, input           9-B3         9-B6         0.5 V DC         Drum unit CLOCK signal, output           9-B4         9-B6         0.5 V DC         Drum unit CLOCK signal, output           9-B11         9-B10         0.5 V DC         S V DC supply for drum unit, output           9-B2         9-10         5 V DC         S V DC supply for FSW, output           10-A2         10-A1         0.5 V DC         S V DC supply for FSW, output           10-A2         10-A1         0.5 V DC         FTH fustection voltage, input           10-A3         10-A8         0.5 V DC         FTH fustection voltage, input           10-A7         10-A8         0.5 V DC         DUPPCL* orioff, input     <	9-A2	9-A1	0/5 V DC	BYPFSW on/off, input
9-A6         0/5 V DC         TCS sn/off, input           9-A8         9-A10         5 V DC         5 V DC supply for TNS, output           9-A9         9-A10         0/5 V DC         TNS sn/off, input           9-A11         9-A10         0/5 V DC         Developing unit detection signal, input           9-A11         9-A10         0/5 V DC         Developing unit FUSE CUT signal, output           9-B2         9-B1         0/24 V DC         TNFSOL on/off, output           9-B3         9-B6         0/5 V DC         CL on/off, output           9-B7         9-B6         0/5 V DC         Drum unit CACK signal, output           9-B8         9-B6         0/5 V DC         Drum unit detection signal, input           9-B9         9-B6         0/5 V DC         Drum unit detection signal, input           9-B11         9-B10         5 V DC         S V DC         S V DC supply for FIN-output           10-A3         10-A1         0/5 V DC         S V DC supply for FIN-output           10-A5         10-A8         0/5 V DC         FTH detection voltage, input           10-A6         10-A8         0/5 V DC         DUPFCL* output           10-B4         10-B3         0/5 V DC         DUPFCL* outoft, output           10-B4 <td>9-A3</td> <td>9-A1</td> <td>5 V DC</td> <td>5 V DC supply for BYPFSW, output</td>	9-A3	9-A1	5 V DC	5 V DC supply for BYPFSW, output
9-A8         9-A10         5 V DC         5 V DC         SV DC         TNS on/off, input           9-A11         9-A10         0/5 V DC         Developing unit detection signal, input           9-A12         9-A10         0/5 V DC         Developing unit HUSE CUT signal, output           9-B2         9-B1         0/24 V DC         TRSD0, on/off, output           9-B3         9-B4         0/5 V DC         TCDSW on/off, output           9-B3         9-B6         0/5 V DC         TCDSW on/off, input           9-B8         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B1         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B1         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B11         9-B10         0/5 V DC         Drum unit detection signal, input           10-A2         10-A1         5 V DC         5 V DC supply for drum unit, output           10-A3         10-A1         5 V DC         5 V DC supply for BW, output           10-A3         10-A8         0.5 V DC         FTH detection voltage, input           10-A3         10-A8         0.5 V DC         DUPFCL*, output           10-B3         0/24 V DC         24 V DC supply for DUPFCL*, output <td>9-A4</td> <td>9-A6</td> <td>5 V DC</td> <td>5 V DC supply for TCS, output</td>	9-A4	9-A6	5 V DC	5 V DC supply for TCS, output
9-A9         9-A10         0'S V DC         TNS on/off, input           9-A11         9-A10         0'S V DC         Developing unit detection signal, input           9-A12         9-A10         0'S V DC         Developing unit f USE CUT signal, output           9-B2         9-B1         0'Z4 V DC         TNFSOL on/off, output           9-B3         9-B4         0'S V DC         TCDSW on/off, input           9-B7         9-B6         0'S V DC         Drum unit CACK signal, output           9-B8         9-B6         0'S V DC         Drum unit DATA signal, output           9-B9         9-B6         0'S V DC         Drum unit detection signal, input           9-B11         9-B10         0'S V DC         Drum unit detection signal, input           10-A2         10-A1         0'S V DC         S V DC supply for RSW, output           10-A2         10-A1         0'S V DC         S V DC supply for DIPFCL*, output           10-A3         10-A4         0'S V DC         S V DC supply for DUPFCL*, output           10-A5         10-A8         0'S V DC         DUPFCL* on/off, output           10-B1         10-B3         0'S V DC         DUPFCL* on/off, output           10-B2         10-B3         0'S V DC         DUUPFCL* on/off, output <td>9-A5</td> <td>9-A6</td> <td>0/5 V DC</td> <td>TCS on/off, input</td>	9-A5	9-A6	0/5 V DC	TCS on/off, input
9-A10         0/5 V DC         Developing unit detection signal, input           9-A12         9-A10         0/5 V DC         Developing unit FUSE CUT signal, output           9-B2         9-B1         0/24 V DC         TNFSOL on/ft, output           9-B3         9-B4         0/5 V DC         CL on/off, output           9-B3         9-B4         0/5 V DC         CL on/off, output           9-B7         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B11         9-B10         0/5 V DC         Drum unit detection signal, input           9-B12         9-10         5 V DC         5 V DC supply for drum unit, output           9-B12         9-10         5 V DC         5 V DC supply for drum unit, output           10-A2         10-A1         0/5 V DC         5 V DC supply for drum unit, output           10-A3         10-A4         5 V DC         5 V DC supply for NBW, output           10-A4         10-A8         0.5 V DC         FTH detection signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPPCL*, output           10-B4         10-B3         5 V DC         5 V DC supply for DM, output           10-B2         10-B4         0/5 V DC         Duplex unit "connection signal, input </td <td>9-A8</td> <td>9-A10</td> <td>5 V DC</td> <td>5 V DC supply for TNS, output</td>	9-A8	9-A10	5 V DC	5 V DC supply for TNS, output
9-A12         9-A10         0/5 V DC         Developing unit FUSE CUT signal, output           9-B2         9-B4         0/5 V DC         TNFSOL on/off, output           9-B7         9-B6         0/5 V DC         CLon/off, output           9-B7         9-B6         0/5 V DC         DCDW vide           9-B8         9-B6         0/5 V DC         Drum unit CLCK signal, output           9-B11         9-B10         0/5 V DC         Drum unit CLCCK signal, output           9-B12         9-10         5 V DC         S V DC supply for AGM, output           10-A2         10-A1         0/5 V DC         FSW on/off, input           10-A3         10-A1         5 V DC         5 V DC supply for AGM, output           10-A4         10-A8         5 V DC         5 V DC supply for TFH, output           10-A5         10-A8         0.5 V DC         FTH fulse CUT signal, input           10-A8         0.74 V DC         24 V DC 24 V DC 24 V DC         24 V DC           10-B4         10-B3         0/24 V DC         DUPPCCL* on/off, output           10-B4         10-B3         0/5 V DC         DUPPCSW* output           10-B4         10-B3         0/5 V DC         DUPPCSW* on/off, input           11-1         11-3         <	9-A9	9-A10	0/5 V DC	TNS on/off, input
9-B2         9-B1         0/24 V DC         TNFSOL on/off, output           9-B3         9-B4         0/5 V DC         TCDSW on/off, input           9-B3         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B9         9-B6         0/5 V DC         Drum unit CLOCK signal, output           9-B11         9-B10         0/5 V DC         Drum unit detection signal, input           9-B12         9-10         5 V DC         S V DC supply for drum unit, output           10-A2         10-A1         5 V DC         5 V DC supply for RSW, output           10-A3         10-A5         5 V DC         5 V DC supply for TFH, output           10-A4         0/5 V DC         FTH detection voltage, input           10-A5         10-A8         0.5 V DC         FTH FUSE CUT signal, input           10-A7         10-A8         0.5 V DC         DUPFCL* output           10-B3         0/24 V DC         DUPCCSW* on/off, input           10-B4         10-B3         0/24 V DC         DUPECL* output           10-B5         10-B6         0/5 V DC         DC Supply for DM, output           11-1         11-3         24 V DC         24 V DC supply for PFM, output           11-2         11-4         24 V DC         <	9-A11	9-A10	0/5 V DC	Developing unit detection signal, input
9-B3         9-B4         0/5 V DC         TCDSW on/off, input           9-B7         9-B6         0/5 V DC         CL on/off, output           9-B9         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B1         9-B10         0/5 V DC         Drum unit DATA signal, output           9-B11         9-B10         0/5 V DC         Drum unit OLCOK signal, output           10-A2         10-A1         0/5 V DC         S V DC supply for drum unit, output           10-A3         10-A1         5 V DC         5 V DC supply for drum unit, output           10-A3         10-A1         5 V DC         5 V DC supply for MW, output           10-A4         10-A8         0.5 V DC         FTH detection voltage, input           10-A7         10-A8         0.5 V DC         FTH FUBS CUT signal, input           10-B4         10-B3         0/2 V DC         DUPFCL* on/off, output           10-B4         10-B3         0/2 V DC         DUPFCL* on/off, output           10-B4         10-B3         0/2 V DC         DUPPCSW* on/off, input           11-1         11-3         24 V DC         24 V DC Supply for DM, output           10-B4         10-B3         0/2 V DC         DM S/S signal, output           11-1	9-A12	9-A10	0/5 V DC	Developing unit FUSE CUT signal, output
9-B7         9-B6         0/5 V DC         CL on/off, output           9-B8         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B1         9-B6         0/5 V DC         Drum unit CLOCK signal, output           9-B1         9-B0         0/5 V DC         Drum unit detection signal, input           9-B12         9-10         5 V DC         5 V DC         SV DC supply for drum unit, output           10-A2         10-A1         0/5 V DC         5 V DC supply for GNM, output         10-A3           10-A2         10-A1         0/5 V DC         5 V DC supply for FTH, output         10-A3           10-A3         10-A4         0/5 V DC         FTH detection voltage, input         10-A6           10-A8         0/5 V DC         FTH detection voltage, input         10-A7         10-A8         0/5 V DC           10-B1         10-B3         0/2 V DC         DUPFCC' on/off, output         10-B1         10-B3         0/5 V DC         DUPFCSW*, output           10-B2         10-B3         0/5 V DC         DUPFCSW*, on/off, input         10-B2         10-B3         0/5 V DC           10-B3         0/5 V DC         DUPFCSW*, on/off, input         10-B1         10-B3         0/5 V DC         DUPFCSW*, output <t< td=""><td>9-B2</td><td>9-B1</td><td>0/24 V DC</td><td>TNFSOL on/off, output</td></t<>	9-B2	9-B1	0/24 V DC	TNFSOL on/off, output
9-B8         9-B6         0/5 V DC         Drum unit DATA signal, output           9-B9         9-B0         0/5 V DC         Drum unit CLOCK signal, output           9-B10         0/5 V DC         Drum unit detection signal, input           10-A2         10-A1         0/5 V DC         RSW on/off, input           10-A3         10-A1         5 V DC         S V DC         SV DC           10-A3         10-A1         5 V DC         S V DC         SV DC           10-A3         10-A1         5 V DC         S V DC         SV DC           10-A3         10-A4         0/5 V DC         FTH detection voltage, input           10-A5         10-A8         0/5 V DC         FTH HUSE CUT signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B3         0/24 V DC         DUPFCSW* on/off, input         10-B5           10-B3         0/5 V DC         Duplex unit* connection signal, input           11-1         11-3         24 V DC         24 V DC supply for DUPCSW*, output           11-2         11-4         24 V DC         24 V DC supply for PIM, output           11-1         11-3         0/24 V DC         DM S/S signal, output           11-1         1	9-B3	9-B4	0/5 V DC	TCDSW on/off, input
9-B9         9-B6         0/5 V DC         Drum unit CLOCK signal, output           9-B11         9-B10         5 V DC         Drum unit detection signal, input           9-B21         9-10         5 V DC         5 V DC         SV DC           10-A2         10-A1         0/5 V DC         5 V DC supply for RSW, output           10-A3         10-A1         5 V DC         5 V DC supply for RSW, output           10-A5         10-A8         0.5 V DC         FTH detection voltage, input           10-A6         10-A8         0.5 V DC         FTH HUSE CUT signal, input           10-A7         10-A8         0.5 V DC         FTH HUSE CUT signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B2         10-B3         0/24 V DC         DUPFCL* on/off, input           10-B4         10-B3         0/24 V DC         DUPPCSW* on/off, input           10-B5         10-B6         0/5 V DC         Duplex unit* connection signal, input           11-1         11-3         24 V DC         24 V DC supply for DUPCSW*, output           11-2         11-4         24 V DC         DM L/D signal, input           11-1         11-3         0/24 V DC         DM L/D signal, input <t< td=""><td>9-B7</td><td>9-B6</td><td>0/5 V DC</td><td>CL on/off, output</td></t<>	9-B7	9-B6	0/5 V DC	CL on/off, output
9-B9         9-B6         0/5 V DC         Drum unit CLOCK signal, output           9-B11         9-B10         5 V DC         Drum unit detection signal, input           9-B21         9-10         5 V DC         5 V DC         SV DC           10-A2         10-A1         0/5 V DC         5 V DC supply for RSW, output           10-A3         10-A1         5 V DC         5 V DC supply for RSW, output           10-A5         10-A8         0.5 V DC         FTH detection voltage, input           10-A6         10-A8         0.5 V DC         FTH HUSE CUT signal, input           10-A7         10-A8         0.5 V DC         FTH HUSE CUT signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B2         10-B3         0/24 V DC         DUPFCL* on/off, input           10-B4         10-B3         0/24 V DC         DUPPCSW* on/off, input           10-B5         10-B6         0/5 V DC         Duplex unit* connection signal, input           11-1         11-3         24 V DC         24 V DC supply for DUPCSW*, output           11-2         11-4         24 V DC         DM L/D signal, input           11-1         11-3         0/24 V DC         DM L/D signal, input <t< td=""><td></td><td></td><td></td><td></td></t<>				
9-B11         9-B10         0/5 V DC         Drum unit detection signal, input           9-B12         9-10         5 V DC         5 V DC         S V DC         supply for drum unit, output           10-A2         10-A1         5 V DC         5 V DC         S V DC supply for SRW, output           10-A3         10-A1         5 V DC         5 V DC supply for FTH, output           10-A5         10-A8         0.5 V DC         FTH detection voltage, input           10-A7         10-A8         0.5 V DC         FTH Heuse CUT signal, input           10-B4         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B4         10-B3         0/24 V DC         DUPFCSW* on/off, input           10-B4         10-B3         0/24 V DC         DUPFCSW* on/off, input           10-B4         10-B3         0/5 V DC         DUPPCSW* on/off, input           10-B4         10-B3         0/5 V DC         DUPPCSW* on/off, input           10-B4         10-B3         0/24 V DC         24 V DC supply for DM, output           11-1         11-3         24 V DC         24 V DC supply for DM, input           11-2         11-4         24 V DC         24 V DC supply for PM, output           11-10         11-4         0/24 V DC				- · ·
9-B12         9-10         5 V DC         5 V DC supply for drum unit, output           10-A2         10-A1         05 V DC         RSW on/off, input           10-A3         10-A1         5 V DC         5 V DC supply for RSW, output           10-A6         10-A8         5 V DC         5 V DC supply for FTH, output           10-A6         10-A8         0 - 5 V DC         FTH detection voltage, input           10-A7         10-A8         0 - 5 V DC         FTH Heuse CUT signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B2         10-B3         0/24 V DC         DUPFCSW* on/off, input           10-B4         10-B3         0/24 V DC         DUPPCSW*, output           10-B5         10-B3         0/5 V DC         DUPPCSW*, output           10-B7         10-B6         0/5 V DC         Duplex unit* connection signal, input           11-1         11.3         24 V DC         24 V DC supply for DM, output           11-2         11-4         24 V DC         24 V DC supply for DM, output           11-5         11-7         5 V DC         DM L/D signal, input           11-10         11-4         0/24 V DC         PFM L/D signal, input           11-11			0/5 V DC	- · ·
10-A2         10-A1         0/5 V DC         RSW on/off, input           10-A3         10-A1         5 V DC         5 V DC supply for RSW, output           10-A5         10-A8         5 V DC         5 V DC supply for FTH, output           10-A6         10-A8         0.5 V DC         FTH detection voltage, input           10-A7         10-A8         0.5 V DC         FTH Heuse CUT signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B2         10-B3         0/5 V DC         DUPFCL* on/off, output           10-B3         0/5 V DC         DUPPCSW* on/off, input           10-B4         10-B3         5 V DC         S V DC supply for DUPPCSW*, output           10-B5         10-B3         5 V DC         24 V DC supply for DM, output           11-1         11-3         24 V DC         24 V DC supply for PFM, output           11-4         124 V DC         24 V DC supply for PFM, output         11-11           11-5         11-7         5 V DC         DM L/D signal, input           11-10         11-4         0/24 V DC         PFM S/S signal, output           11-11         11-3         0/24 V DC         PFM L/D signal, input           11-12         11-4			5 V DC	
10-A3         10-A1         5 V DC         5 V DC supply for RSW, output           10-A5         10-A8         5 V DC         5 V DC supply for FTH, output           10-A6         10-A8         0.5 V DC         FTH detection voltage, input           10-A7         10-A8         0.5 V DC         FTH detection voltage, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B4         10-B3         0/24 V DC         DUPPCSW* on/off, input           10-B4         10-B3         0/24 V DC         DUPPCSW* on/off, input           10-B4         10-B3         5 V DC         DUPPCSW* on/off, input           10-B4         10-B3         0/24 V DC         DuPes unit* connection signal, input           11-1         11-3         24 V DC         24 V DC supply for DM, output           11-2         11-4         24 V DC         24 V DC supply for PFM, output           11-5         11-7         5 V DC         24 V DC supply for DM, input           11-9         11-3         0/24 V DC         DM L/D signal, input           11-11         11-4         0/24 V DC         DM L/D signal, input           11-12         11-4         0/24 V DC         PFM L/D signal, input           11-13			0/5 V DC	
10-A5         10-A8         5 V DC         5 V DC supply for FTH, output           10-A6         10-A8         0 - 5 V DC         FTH detection voltage, input           10-A7         10-A8         0/5 V DC         FTH FUSE CUT signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B2         10-B3         0/24 V DC         DUPPCSW* on/off, input           10-B4         10-B3         5 V DC         DUPPCSW* on/off, input           10-B7         10-B6         0/5 V DC         DUPPCSW* on/off, input           10-B7         10-B6         0/5 V DC         Duplex unit* connection signal, input           11-1         11-3         24 V DC         24 V DC supply for DM, output           11-2         11-4         24 V DC         24 V DC supply for PFM, output           11-3         11-7         5 V DC         DM S/S signal, output           11-10         11-4         0/24 V DC         DM S/S signal, output           11-11         11-3         0/24 V DC         PFM S/S signal, output           11-12         11-4         0/24 V DC         PFM L/D signal, input           11-14         11-4         0/24 V DC         FCL1 on/off, output           11-17			5 V DC	
10-A6         10-A8         0 - 5 V DC         FTH detection voltage, input           10-A7         10-A8         05 V DC         FTH FUSE CUT signal, input           10-B1         10-B3         24 V DC         24 V DC supply for DUPFCL*, output           10-B2         10-B3         0/5 V DC         DUPFCL*on/off, output           10-B4         10-B3         0/5 V DC         DUPPCSW* on/off, input           10-B5         10-B3         5 V DC         5 V DC supply for DUPPCSW*, output           10-B7         10-B6         0/5 V DC         Duplex unit* connection signal, input           11-1         11-3         24 V DC         24 V DC supply for DM, output           11-2         11-4         24 V DC         24 V DC supply for DM, input           11-5         11-7         5 V DC         24 V DC supply for DM, input           11-9         11-3         0/24 V DC         DM S/S signal, output           11-10         11-4         0/24 V DC         DM S/S signal, output           11-11         11-3         0/24 V DC         PFM L/D signal, input           11-12         11-4         0/24 V DC         PFM L/D signal, output           11-14         11-4         0/24 V DC         PFM L/D signal, output           11-15 </td <td></td> <td></td> <td></td> <td></td>				
10-A710-A8 $0/5 \vee DC$ FTH FUSE CUT signal, input10-B110-B324 $\vee$ DC24 $\vee$ DC supply for DUPFCL*, output10-B210-B30/24 $\vee$ DCDUPFCSW* on/off, input10-B410-B35 $\vee$ DCDUPPCSW* on/off, input10-B510-B35 $\vee$ DCDUPPCSW* on/off, input10-B710-B60.5 $\vee$ DCDuplex unit* connection signal, input11-111-324 $\vee$ DC24 $\vee$ DC supply for DM, output11-211-424 $\vee$ DC24 $\vee$ DC supply for DM, output11-911-75 $\vee$ DC24 $\vee$ DC supply for DM, input11-911-30/24 $\vee$ DC24 $\vee$ DC supply for DM, input11-1011-424 $\vee$ DC24 $\vee$ DC supply for DM, input11-1111-30/24 $\vee$ DCDM S/S signal, output11-1211-40/24 $\vee$ DCDM L/D signal, input11-1311-70/5 $\vee$ DC (pulse)DM CLOCK signal, output11-1411-40/24 $\vee$ DC24 $\vee$ DC supply for FCL1, output11-1511-424 $\vee$ DC24 $\vee$ DC supply for FSW, output11-1411-40/24 $\vee$ DCFSW1 on/off, input11-1511-424 $\vee$ DC24 $\vee$ DC supply for PWSW-U, output11-165 $\vee$ DC5 $\vee$ DC supply for PWSW-U, input12-212-624 $\vee$ DC24 $\vee$ DC supply for PWSW-U, input12-312-60/24 $\vee$ DCPWSW-U paper width detection signal, input12-412-60/24 $\vee$ DCPWSW-U paper width detection signal, input </td <td></td> <td></td> <td></td> <td></td>				
10-B110-B3 $24 \vee DC$ $24 \vee DC$ supply for DUPFCL*, output10-B210-B30/24 $\vee DC$ DUPFCSW* on/off, output10-B410-B30/5 $\vee$ DCDUPPCSW* on/off, input10-B510-B35 $\vee$ DC5 $\vee$ DC supply for DUPPCSW*, output10-B710-B60/5 $\vee$ DCDuplex unit* connection signal, input11-111-324 $\vee$ DC24 $\vee$ DC supply for DM, output11-111-324 $\vee$ DC24 $\vee$ DC supply for DM, output11-111-30/24 $\vee$ DC24 $\vee$ DC supply for DM, input11-911-30/24 $\vee$ DCDM S/S signal, output11-1111-40/24 $\vee$ DCDM S/S signal, output11-1211-40/24 $\vee$ DCDM L/D signal, input11-1311-70/5 $\vee$ DC (pulse)DM CLOCK signal, output11-1411-40/24 $\vee$ DCPFM L/D signal, input11-1511-424 $\vee$ DC24 $\vee$ DC supply for FCL1, output11-1411-40/24 $\vee$ DCFSW1 on/off, input11-1511-424 $\vee$ DC24 $\vee$ DC supply for PSW, output11-1411-40/24 $\vee$ DC24 $\vee$ DC supply for PSW, output11-1511-424 $\vee$ DC24 $\vee$ DC supply for PSW, output11-1411-40/24 $\vee$ DC24 $\vee$ DC supply for PSW, output11-1511-424 $\vee$ DC24 $\vee$ DC supply for PSW, output11-1511-424 $\vee$ DC24 $\vee$ DC supply for PSW, output12-1112-624 $\vee$ DC24 $\vee$ DC supply for PSW, output				
10-B210-B3 $0/24 \ V \ DC$ DUPFCL* on/off, output10-B410-B3 $0/5 \ V \ DC$ DUPPCSW* on/off, input10-B510-B3 $5 \ V \ DC$ DUPPCSW* on/off, input10-B710-B6 $0/5 \ V \ DC$ Duplex unit* connection signal, input11-111-3 $24 \ V \ DC$ $24 \ V \ DC$ supply for DM, output11-211-4 $24 \ V \ DC$ $24 \ V \ DC$ supply for DM, output11-511-7 $5 \ V \ DC$ $24 \ V \ DC$ supply for DM, input11-911-3 $0/24 \ V \ DC$ $24 \ V \ DC$ supply for DM, input11-1111-3 $0/24 \ V \ DC$ PFM S/s signal, output11-1211-4 $0/24 \ V \ DC$ DM L/D signal, input11-1311-4 $0/24 \ V \ DC$ PFM L/D signal, input11-14 $0/24 \ V \ DC$ PFM L/D signal, input11-1511-4 $0/24 \ V \ DC$ PFM L/D signal, input11-1411-4 $0/24 \ V \ DC$ PFM L/D signal, input11-1511-4 $24 \ V \ DC$ PFM L/D signal, input11-1411-4 $0/24 \ V \ DC$ PFM L/D signal, input11-1511-4 $24 \ V \ DC$ 24 \ V \ DC supply for FSW, output11-1411-4 $0/24 \ V \ DC$ PFW L/D c supply for PSW-U, output11-1511-4 $24 \ V \ DC$ 24 \ V \ DC supply for FSW, output11-16 $5 \ V \ DC$ 24 \ V \ DC supply for PSW-U, output12-2112-6 $0/24 \ V \ DC$ PWSW-U paper width detection signal, input12-2312-6 $0/24 \ V \$				
10-B410-B30/5 V DCDUPPCSW* on/off, input10-B510-B35 V DC5 V DC supply for DUPPCSW*, output10-B710-B60/5 V DCDuplex unit* connection signal, input11-111-324 V DC24 V DC supply for DM, output11-211-424 V DC24 V DC supply for DM, input11-511-75 V DC24 V DC supply for DM, input11-911-30/24 V DC24 V DC supply for DM, input11-1011-40/24 V DCDM S/S signal, output11-1111-30/24 V DCPFM S/S signal, output11-1211-40/24 V DCPFM L/D signal, input11-1311-70/5 V DC (pulse)DM CLOCK signal, output11-1411-40/24 V DCFCL1 on/off, output11-1511-424 V DC24 V DC supply for FCL1, output11-1610/5 V DCFSW1 on/off, input11-1711-160/5 V DC5 V DC supply for FWSW-U, output12-2112-624 V DC24 V DC supply for PWSW-U, output12-1112-160/24 V DC24 V DC supply for PWSW-U, output12-2112-624 V DC24 V DC supply for PWSW-U, output12-312-60/24 V DCPWSW-U paper width detection signal, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-5 <t< td=""><td></td><td></td><td></td><td></td></t<>				
10-B5         10-B3         5 V DC         5 V DC supply for DUPPCSW*, output           10-B7         10-B6         0/5 V DC         Duplex unit* connection signal, input           11-1         11-3         24 V DC         24 V DC supply for DM, output           11-2         11-4         24 V DC         24 V DC supply for DM, output           11-5         11-7         5 V DC         24 V DC supply for DM, output           11-9         11-3         0/24 V DC         24 V DC supply for DM, input           11-10         11-4         0/24 V DC         DM S/S signal, output           11-11         11-3         0/24 V DC         PFM S/S signal, output           11-12         11-4         0/24 V DC         PFM L/D signal, input           11-13         11-7         0/5 V DC (pulse)         DM CLOCK signal, output           11-14         11-4         0/24 V DC         FCL1 on/off, output           11-15         11-4         24 V DC         24 V DC supply for FCL1, output           11-16         10/5 V DC         FSW1 on/off, input         11-16           11-17         11-16         5 V DC         5 V DC supply for PWSW-U, output           12-2         12-6         24 V DC         24 V DC supply for PWSW-U, output				·
10-B710-B6 $0/5 \vee DC$ Duplex unit* connection signal, input11-111-324 $\vee DC$ 24 $\vee DC$ supply for DM, output11-211-424 $\vee DC$ 24 $\vee DC$ supply for PFM, output11-511-75 $\vee DC$ 24 $\vee DC$ supply for DM, input11-911-3 $0/24 \vee DC$ DM S/S signal, output11-1011-4 $0/24 \vee DC$ DM S/S signal, output11-1111-3 $0/24 \vee DC$ DM L/D signal, input11-1211-4 $0/24 \vee DC$ PFM S/S signal, output11-1311-7 $0/5 \vee DC$ (pulse)DM L/D signal, input11-1411-4 $0/24 \vee DC$ PFM L/D signal, input11-1511-4 $0/24 \vee DC$ PCL in or/off, output11-165 $\vee DC$ 5 $\vee DC$ supply for FCL1, output11-1711-165 $\vee DC$ 5 $\vee DC$ supply for PWSW-U, input12-1112-624 $\vee DC$ 24 $\vee DC$ supply for PWSW-U, input12-212-60/24 $\vee DC$ PWSW-U paper width detection signal, input12-312-6 $0/24 \vee DC$ PWSW-U paper width detection signal, input12-412-6 $0/24 \vee DC$ PWSW-U paper width detection signal, input12-712-12 $24 \vee DC$ 24 $\vee DC$ 24 $\vee DC$ 12-812-12 $0/24 \vee DC$ 24 $\vee DC$ 24 $\vee DC$ 12-912-12 $0/24 \vee DC$ PWSW-L paper width detection signal, input12-1412-2 $0/24 \vee DC$ 24 $\vee DC$ 24 $\vee DC$ 12-1512-6 $0/24 \vee DC$ PWSW-L paper width det				
11-111-324 V DC24 V DC supply for DM, output11-211-424 V DC24 V DC supply for PFM, output11-511-75 V DC24 V DC supply for DM, input11-911-30/24 V DCDM S/S signal, output11-1011-40/24 V DCPFM S/S signal, output11-1111-30/24 V DCDM L/D signal, input11-1211-40/24 V DCDM L/D signal, input11-1311-70/5 V DC (pulse)DM CLOCK signal, output11-1411-40/24 V DCFCL1 on/off, output11-1511-424 V DC24 V DC supply for FCL1, output11-165 V DC5 V DC supply for FSW, output11-1711-160/5 V DC5 V DC supply for PWSW-U, input12-112-624 V DC24 V DC supply for PWSW-U, input12-212-60/24 V DC24 V DC supply for PWSW-U, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, input12-812-120/24 V DCPWSW-L paper width detection signal, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, in	1			
11-211-424 V DC24 V DC supply for PFM, output11-511-75 V DC24 V DC supply for DM, input11-911-30/24 V DCDM S/S signal, output11-1011-40/24 V DCPFM S/S signal, output11-1111-30/24 V DCDM L/D signal, input11-1211-40/24 V DCDM L/D signal, input11-1311-70.5 V DC (pulse)DM CLOCK signal, output11-1411-40/24 V DCFCL 1 on/off, output11-1511-424 V DC24 V DC supply for FCL1, output11-160.5 V DCFSW1 on/off, input11-1711-160.5 V DC5 V DC supply for FSW, output12-112-624 V DC24 V DC supply for PWSW-U, input12-212-60/24 V DCPWSW-U paper width detection signal, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DC24 V DC supply for PWSW-L, output12-712-1224 V DC24 V DC supply for PWSW-L, input12-712-1224 V DC24 V DC supply for PWSW-L, input12-712-120/24 V DC24 V DC supply for PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input12-1212-120/24 V DCPWSW-L paper width detection signal, input<	11-1		24 V DC	
11-511-75 V DC24 V DC supply for DM, input11-911-30/24 V DCDM S/S signal, output11-1011-40/24 V DCPFM S/S signal, output11-1111-30/24 V DCDM L/D signal, input11-1211-40/24 V DCPFM L/D signal, input11-1311-70/5 V DC (pulse)DM CLOCK signal, output11-1411-40/24 V DCFCL1 on/off, output11-1511-424 V DC24 V DC supply for FCL1, output11-1611-165 V DCFSW1 on/off, input11-1711-165 V DC5 V DC supply for FSW, output12-112-624 V DC24 V DC supply for PWSW-U, input12-212-624 V DC24 V DC supply for PWSW-U, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-120/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-912-120/24 V DCPWSW-L paper width detection signal, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input12-712-120/24 V DCPWSW-L paper width detection signal, input12-712-120/24 V DCPWSW-L paper width d			24 V DC	
11-911-3 $0/24 \ V \ DC$ DM S/S signal, output11-1011-4 $0/24 \ V \ DC$ PFM S/S signal, output11-1111-3 $0/24 \ V \ DC$ DM L/D signal, input11-1211-4 $0/24 \ V \ DC$ PFM L/D signal, input11-1311-7 $0/5 \ V \ DC$ (pulse)DM CLOCK signal, output11-1411-4 $0/24 \ V \ DC$ FCL1 on/off, output11-1511-4 $24 \ V \ DC$ 24 \ V DC supply for FCL1, output11-16 $0/5 \ V \ DC$ FSW1 on/off, input11-1711-16 $5 \ V \ DC$ 5 \ DC supply for FSW, output12-112-624 \ V \ DC24 \ V \ DC supply for PWSW-U, output12-212-624 \ V \ DC24 \ V \ DC supply for PWSW-U, input12-312-6 $0/24 \ V \ DC$ PWSW-U paper width detection signal, input12-412-6 $0/24 \ V \ DC$ PWSW-U paper width detection signal, input12-512-6 $0/24 \ V \ DC$ 24 \ DC supply for PWSW-L, output12-712-12 $24 \ V \ DC$ 24 \ V \ DC supply for PWSW-L, input12-812-12 $0/24 \ V \ DC$ 24 \ V \ DC supply for PWSW-L, input12-912-12 $0/24 \ V \ DC$ 24 \ V \ DC supply for PWSW-L, input12-912-12 $0/24 \ V \ DC$ PWSW-L paper width detection signal, input12-1112-12 $0/24 \ V \ DC$ PWSW-L paper width detection signal, input12-1412-12 $0/24 \ V \ DC$ PWSW-L paper width detection signal, input12-1512-16 $0/24 \ V \ DC$			5 V DC	
11-1011-4 $0/24 \ V DC$ PFM S/S signal, output11-1111-3 $0/24 \ V DC$ DM L/D signal, input11-1211-4 $0/24 \ V DC$ PFM L/D signal, input11-1311-7 $0/5 \ V DC$ (pulse)DM CLOCK signal, output11-1411-4 $0/24 \ V DC$ FCL1 on/off, output11-1511-4 $24 \ V DC$ 24 \ V DC supply for FCL1, output11-16 $0/5 \ V DC$ FSW1 on/off, input11-1711-16 $0/5 \ V DC$ FSW1 on/off, input11-1811-165 \ V DC5 \ V DC supply for FSW, output12-112-624 \ V DC24 \ V DC supply for FWSW-U, output12-212-6 $0/24 \ V DC$ PWSW-U paper width detection signal, input12-312-6 $0/24 \ V DC$ PWSW-U paper width detection signal, input12-412-6 $0/24 \ V DC$ PWSW-U paper width detection signal, input12-512-6 $0/24 \ V DC$ 24 \ V DC supply for PWSW-L, output12-712-1224 \ V DC24 \ V DC supply for PWSW-L, input12-712-12 $0/24 \ V DC$ 24 \ V DC supply for PWSW-L, input12-712-12 $0/24 \ V DC$ 24 \ V DC supply for PWSW-L, input12-912-12 $0/24 \ V DC$ PWSW-L paper width detection signal, input12-1012-12 $0/24 \ V DC$ PWSW-L paper width detection signal, input12-1112-12 $0/24 \lor V DC$ PWSW-L paper width detection signal, input13-A213-A1 $0/5 \lor DC$ FSW3 on/off, input1		11-3	0/24 V DC	
11-1111-3 $0/24 \ V DC$ DM L/D signal, input11-1211-4 $0/24 \ V DC$ PFM L/D signal, input11-1311-7 $0/5 \ V DC$ (pulse)DM CLOCK signal, output11-1411-4 $0/24 \ V DC$ FCL1 on/off, output11-1511-4 $24 \ V DC$ $24 \ V DC$ supply for FCL1, output11-16 $0/5 \ V DC$ FSW1 on/off, input11-1711-16 $0/5 \ V DC$ $5 \ V DC$ supply for FSW, output12-112-6 $24 \ V DC$ $24 \ V DC$ supply for PWSW-U, output12-212-6 $24 \ V DC$ $24 \ V DC$ supply for PWSW-U, input12-312-6 $0/24 \ V DC$ PWSW-U paper width detection signal, input12-412-6 $0/24 \ V DC$ PWSW-U paper width detection signal, input12-512-6 $0/24 \ V DC$ PWSW-U paper width detection signal, input12-712-12 $24 \ V DC$ $24 \ V DC$ supply for PWSW-L, output12-812-2 $2-4 \ V DC$ $24 \ V DC$ supply for PWSW-L, input12-712-12 $24 \ V DC$ $24 \ V DC$ supply for PWSW-L, output12-812-2 $0/24 \ V DC$ $24 \ V DC$ supply for PWSW-L, input12-912-12 $0/24 \ V DC$ PWSW-L paper width detection signal, input12-912-12 $0/24 \ V DC$ PWSW-L paper width detection signal, input12-1012-12 $0/24 \ V DC$ PWSW-L paper width detection signal, input12-1112-12 $0/24 \ V DC$ PWSW-L paper width detection signal, input13-A213-A1 $0$	11-10	11-4	0/24 V DC	
11-12       11-4       0/24 V DC       PFM L/D signal, input         11-13       11-7       0/5 V DC (pulse)       DM CLOCK signal, output         11-14       11-4       0/24 V DC       FCL1 on/off, output         11-15       11-4       24 V DC       24 V DC supply for FCL1, output         11-17       11-16       0/5 V DC       FSW1 on/off, input         11-18       11-16       5 V DC       5 V DC supply for FSW, output         12-1       12-6       24 V DC       24 V DC supply for PWSW-U, output         12-2       12-6       24 V DC       24 V DC supply for PWSW-U, input         12-3       12-6       0/24 V DC       PWSW-U paper width detection signal, input         12-4       12-6       0/24 V DC       PWSW-U paper width detection signal, input         12-5       12-6       0/24 V DC       PWSW-U paper width detection signal, input         12-7       12-12       24 V DC       24 V DC supply for PWSW-L, output         12-7       12-12       24 V DC       24 V DC supply for PWSW-L, output         12-8       12-12       0/24 V DC       PWSW-L paper width detection signal, input         12-9       12-12       0/24 V DC       PWSW-L paper width detection signal, input         12-10       12-12 </td <td></td> <td></td> <td></td> <td></td>				
11-13       11-7       0/5 V DC (pulse)       DM CLOCK signal, output         11-14       11-4       0/24 V DC       FCL1 on/off, output         11-15       11-4       24 V DC       24 V DC supply for FCL1, output         11-17       11-16       0/5 V DC       FSW1 on/off, input         11-18       11-16       5 V DC       5 V DC supply for FSW, output         12-1       12-6       24 V DC       24 V DC supply for PWSW-U, output         12-2       12-6       24 V DC       24 V DC supply for PWSW-U, input         12-3       12-6       0/24 V DC       PWSW-U paper width detection signal, input         12-4       12-6       0/24 V DC       PWSW-U paper width detection signal, input         12-5       12-6       0/24 V DC       PWSW-U paper width detection signal, input         12-7       12-12       24 V DC       24 V DC supply for PWSW-L, output         12-7       12-12       0/24 V DC       PWSW-U paper width detection signal, input         12-7       12-12       0/24 V DC       PWSW-L paper width detection signal, input         12-9       12-12       0/24 V DC       PWSW-L paper width detection signal, input         12-10       12-12       0/24 V DC       PWSW-L paper width detection signal, input				
11-1411-4 $0/24 \vee DC$ FCL1 on/off, output11-1511-424 $\vee DC$ 24 $\vee DC$ supply for FCL1, output11-1711-16 $0/5 \vee DC$ FSW1 on/off, input11-1811-165 $\vee DC$ 5 $\vee DC$ supply for FSW, output12-112-624 $\vee DC$ 24 $\vee DC$ supply for PWSW-U, output12-212-624 $\vee DC$ 24 $\vee DC$ supply for PWSW-U, input12-312-6 $0/24 \vee DC$ PWSW-U paper width detection signal, input12-412-6 $0/24 \vee DC$ PWSW-U paper width detection signal, input12-512-6 $0/24 \vee DC$ PWSW-U paper width detection signal, input12-712-1224 $\vee DC$ 24 $\vee DC$ supply for PWSW-L, output12-812-12 $0/24 \vee DC$ 24 $\vee DC$ supply for PWSW-L, input12-912-12 $0/24 \vee DC$ PWSW-L paper width detection signal, input12-1012-12 $0/24 \vee DC$ PWSW-L paper width detection signal, input12-1112-12 $0/24 \vee DC$ PWSW-L paper width detection signal, input12-1112-12 $0/24 \vee DC$ PWSW-L paper width detection signal, input12-11 $12-12$ $0/24 \vee DC$ PWSW-L paper width detection signal, input13-A2 $13-A1$ $0/5 \vee DC$ FSW3 on/off, input13-A3 $13-A1$ $5 \vee DC$ $5 \vee DC$ supply for FSW3, output				
11-1511-424 V DC24 V DC supply for FCL1, output11-1711-160/5 V DCFSW1 on/off, input11-1811-165 V DC5 V DC supply for FSW, output12-112-624 V DC24 V DC supply for PWSW-U, output12-212-624 V DC24 V DC supply from PWSW-U, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply for PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output			u ,	
11-1711-160/5 V DCFSW1 on/off, input11-1811-165 V DC5 V DC supply for FSW, output12-112-624 V DC24 V DC supply for PWSW-U, output12-212-624 V DC24 V DC supply from PWSW-U, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply for PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output				
11-1811-165 V DC5 V DC supply for FSW, output12-112-624 V DC24 V DC supply for PWSW-U, output12-212-624 V DC24 V DC supply from PWSW-U, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply for PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output				
12-112-624 V DC24 V DC supply for PWSW-U, output12-212-624 V DC24 V DC supply from PWSW-U, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply from PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output				
12-212-624 V DC24 V DC supply from PWSW-U, input12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply from PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output				
12-312-60/24 V DCPWSW-U paper width detection signal, input12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply from PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output	1			
12-412-60/24 V DCPWSW-U paper width detection signal, input12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply from PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output	1			
12-512-60/24 V DCPWSW-U paper width detection signal, input12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply from PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output				
12-712-1224 V DC24 V DC supply for PWSW-L, output12-812-1224 V DC24 V DC supply from PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output				
12-812-1224 V DC24 V DC supply from PWSW-L, input12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output	1			
12-912-120/24 V DCPWSW-L paper width detection signal, input12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output	1			
12-1012-120/24 V DCPWSW-L paper width detection signal, input12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output	1			
12-1112-120/24 V DCPWSW-L paper width detection signal, input13-A213-A10/5 V DCFSW3 on/off, input13-A313-A15 V DC5 V DC supply for FSW3, output				
13-A2         13-A1         0/5 V DC         FSW3 on/off, input           13-A3         13-A1         5 V DC         5 V DC supply for FSW3, output				
13-A3 13-A1 5 V DC 5 V DC supply for FSW3, output				
			5 V DC	
			24 V DC	

Termina	als (CN)	Voltage	Remarks
13-A5	13-A16	0/24 V DC	FCL3 on/off, output
13-A7	13-A6	0/5 V DC	FSW2 on/off, input
13-A8	13-A6	5 V DC	5 V DC supply for FSW2, output
13-A10	13-A9	0/5 V DC	SCSW on/off, input
13-A11	13-A16	24 V DC	24 V DC supply for FCL2, output
13-A12	13-A16	0/24 V DC	FCL2 on/off, output
13-A13	13-A14	0/5 V DC	LM-U paper level detection switch on/off, input
13-A15	13-A14	0/5 V DC	LM-U paper level detection switch on/off, input
13-A17	13-A16	0/24 V DC	LM-U on/off, output
13-A19	13-A18	0/5 V DC	PLSW-L on/off, inout
13-B2	13-B1	0/5 V DC	PLSW-U on/off, inout
13-B3	13-B4	0/5 V DC	LM-L paper level detection switch on/off, input
13-B5	13-B4	0/5 V DC	LM-L paper level detection switch on/off, input
13-B7	13-B6	0/24 V DC	LM-L on/off, output
13-B9	13-B8	0/5 V DC	LICSW-U on/off, input
13-B10	13-B8	5 V DC	5 V DC supply for LICSW-U, output
13-B12	13-B11	0/5 V DC	PSW-U on/off, input
13-B13	13-B11	5 V DC	5 V DC supply for PSW-U, output
13-B15	13-B14	0/5 V DC	LICSW-L on/off, input
13-B16	13-B14	5 V DC	5 V DC supply for LICSW-L, output
13-B18	13-B17	0/5 V DC	PSW-L on/off, input
13-B19	13-B17	5 V DC	5 V DC supply for PSW-L, output
16-A1	16-A14	0/24 V DC	FSSOL release signal, output
16-A2	16-A14	0/24 V DC	FSSOL acutuate signal, output
16-A3	16-A14	24 V DC	24 V DC supply for FSSOL, output
16-A5	16-A4	0/5 V DC	FSSW on/off, input
16-A6	16-A4	5 V DC	5 V DC supply for FSSW, input
16-A11	16-A10	0/5 V DC	ESW on/off, input
16-A12	16-A10	5 V DC	5 V DC supply for ESW, output
16-A13	16-A14	0/24 V DC	CFM1 on/off, output
16-A16	16-A15	0/5 V DC	CCSW on/off, input
16-B1	16-A14	0/24 V DC	PFCL-U on/off, output
16-B2	16-A14	24 V DC	24 V DC supply for PFCL-U, output
16-B3	16-A14	24 V DC	24 V DC supply for PFCL-L, output
16-B4	16-A14	0/24 V DC	PFCL-L on/off, output
16-B5	16-A14	24 V DC	24 V DC supply for RCL, output
16-B6	16-A14	0/24 V DC	RCL on/off, output
16-B7	16-B9	5 V DC	5 V DC supply for HUMSENS, output
16-B8	16-B9	0 - 5 V DC	HUMSENS detection voltage, input
16-B10	16-B9	0 - 5 V DC	ETTH detection voltage, input
16-B11	16-A14	0/24 V DC (pulse)	EM coil energization pulse, output (B)
16-B12	16-A14	0/24 V DC (pulse)	EM coil energization pulse, output (B)
16-B13	16-A14	0/24 V DC (pulse)	EM coil energization pulse, output (Ā)
16-B14	16-A14	0/24 V DC (pulse)	EM coil energization pulse, output (A)
16-B15	16-A14	24 V DC	24 V DC supply for CFM4, output
16-B16	16-A14	0/24 V DC	CFM4 on/off, output
31-1	2-2	24 V DC	24 V DC supply from MSW, input
31-2	2-2	0/5 V DC	MSW on/off, output
31-3	2-2	24 V DC	24 V DC supply for TC, output
31-4	2-2	0/5 V DC	TC count signal, output
31-8	31-7	0/5 V DC	Key counter* connection signal, input
31-9	2-2	24 V DC	24V DC supply for key counter*, output
31-10	2-2	0/5 V DC	Key counter* count signal, output
32-1	2-2	0/5 V DC	OFM* RET signal, output
32-2	2-2	0/5 V DC (pulse)	OFM* CLOCK signal, output
32-3	2-2	0/5 V DC	OFM* CWB signal, output
*Optional			

2DF

Termina	als (CN)	Voltage	Remarks
32-4	2-2	0/5 V DC	OCM* ENABLE signal, output
32-5	2-2	0/5 V DC	OCM* RET signal, output
32-6	2-2	0/5 V DC (pulse)	OCM* CLOCK signal, output
32-7	2-2	0/5 V DC	OCM* CWB signal, output
32-8	2-2		OCM* current control voltage Vref, output
32-9	2-2	0/5 V DC	OCM* drive control signal M3, output
32-10	2-2	0/5 V DC	OCM* drive control signal M2, output
32-11	2-2	0/5 V DC	OCM* drive control signal M1, output
33-A2	2-2	0/5 V DC	OSBSW* on/off, input
33-A3	2-2	0/5 V DC	OFSW* on/off, input
33-A4	2-2	0/5 V DC	OSSW* on/off, input
33-A7	2-2	0/5 V DC	SRDF* connection signal, input
33-A8	2-2	0/5 V DC	OSWSW* on/off, input
33-A9	2-2	0/5 V DC	DFSSW2* on/off, input
33-A10	2-2	0/5 V DC	DFSSW1* on/off, input
	2-2	0/5 V DC	OSLSW <sup>*</sup> on/off, input
33-A11	2-2 2-2		
33-A12		0/5 V DC	DFTSW* on/off, input
33-B1	2-2	0/5 V DC	OSLED* (red) on/off, output
33-B2	2-2	0/5 V DC	OSLED* (green) on/off, output
33-B3	2-2	0/24 V DC	SBPSOL* release signal, output
33-B4	2-2	0/24 V DC	SBPSOL* actuate signal, output
33-B5	2-2	0/24 V DC	OFCL* on/off, output
33-B6	2-2	0/24 V DC	EFSSOL* on/off, output
33-B8	2-2	0/24 V DC	SBFSSOL* on/off, output
33-B9	2-2	0/24 V DC	OFSOL* release signal, output
33-B10	2-2	0/24 V DC	OFSOL* actuate signal, output
33-B11	2-2	0/5 V DC	OFM* ENABLE signal, input
33-B12	2-2	0/5 V DC	OFM* ENABLE signal, input
34-2	34-1	4.5 V DC (pulse)	CCDPCB ODD signal, input (analog)
34-4	34-3	4.5 V DC (pulse)	CCDPCB EVEN signal, input (analog)
34-5	34-7	12 V DC	12 V DC supply for CCDPCB, output
34-6	34-7	5 V DC	5 V DC supply for CCDPCB, output
34-8	34-9	0/5 V DC (pulse)	CCDPCB CLP signal, output
34-10	34-11	0/5 V DC (pulse)	CCDPCB SHIFT signal, output
34-12	34-11	0/5 V DC (pulse)	CCDPCB CLOCK + signal, output
34-13	34-11	0/5 V DC (pulse)	CCDPCB CLOCK - signal, output
34-14	34-11	0/5 V DC (pulse)	CCDPCB RS + signal, output
34-15	34-11	0/5 V DC (pulse)	CCDPCB RS - signal, output
35-1	35-3	0/5 V DC	JBESW* on/off, input
35-2	35-3	5 V DC	5 V DC supply for JBESW*, output
35-5	35-4	0/5 V DC	Job separator* connection signal, input
35-7	35-6	0/5 V DC	EPDSW* on/off, input
35-8	35-6	5 V DC	5 V DC supply for EPDSW*, output
35-9	35-4	0/5 V DC	LED (JOB)* on/off, output
35-10	35-4	5 V DC	5 V DC supply for LED (JOB)*, output
35-11	35-4	0/24 V DC	FSSOL (JOB)* release signal, output
35-12	35-4	0/24 V DC	FSSOL (JOB)* actuate signal, output
35-13	35-4	24 V DC	24 V DC supply for FSSOL (JOB)*, output
36-1	42-B4	0/5 V DC (pulse)	OPCB-L DIGLED6 signal, output
36-2	42-B4	0/5 V DC (pulse)	OPCB-L DIGLED5 signal, output
36-3	42-B4	0/5 V DC (pulse)	OPCB-L DIGLED3 signal, output
36-4	42-B4	0/5 V DC (pulse)	OPCB-L DIGLED3 signal, output
36-5	42-B4	0/5 V DC (pulse)	OPCB-L DIGLED3 signal, output
36-6	42-B4 42-B4	0/5 V DC (pulse)	OPCB-L DIGLED2 signal, output
36-7	42-B4 42-B4	0/5 V DC (pulse)	OPCB-L DIGLEDT signal, output
36-7		0/5 V DC (pulse) 0/5 V DC (pulse)	
*Ontional	42-B4	U/S V DC (pulse)	OPCB-L SCAN3 signal, output

Termina	als (CN)	Voltage	Remarks
36-9	42-B4	0/5 V DC (pulse)	OPCB-L SCAN2 signal, output
36-10	42-B4	0/5 V DC (pulse)	OPCB-L SCAN1 signal, output
36-11	42-B4	0/5 V DC	OPCB-L DIGKEY3 signal, input
36-12	42-B4	0/5 V DC	OPCB-L DIGKEY2 signal, input
36-13	42-B4	0/5 V DC	OPCB-L DIGKEY1 signal, input
37-2	37-1	0/5 V DC	SHPSW on/off, input
37-3	37-1	0/5 V DC	EL on/off, output
37-4	37-1	0/5 V DC	SM ENABLE signal, output
37-5	37-1	0/5 V DC	SM RET signal, output
37-6	37-1	0/5 V DC	SM CWB signal, output
37-7	37-1	0/5 V DC (pulse)	SM CLOCK signal, output
37-8	37-1	0/5 V DC	SM drive control signal M5, output
37-9	37-1	0/5 V DC	SM drive control signal M4, output
37-10	37-1	0/5 V DC	SM drive control signal M3, output
37-11	37-1	0/5 V DC	SM drive control signal M2, output
37-12	37-1	0/5 V DC	SM drive control signal M1, output
37-13	37-1		SM current control voltage Vref, output
37-14	37-1	0/5 V DC	ODSW on/off, input
37-16	37-15	0/5 V DC	OSDS on/off, input
37-17	37-15	5 V DC	5 V DC supply for OSDS, output
42-A1	42-B4	0/5 V DC	OPCB-L BUZZER signal, output
42-A2	42-B4	0/5 V DC (pulse)	Touch panel detection voltage X1, input
42-A3	42-B4	0/5 V DC (pulse)	Touch panel detection voltage Y1, input
42-A4	42-B4	0/5 V DC (pulse)	Touch panel detection voltage X2, output
42-A5	42-B4	0/5 V DC (pulse)	Touch panel detection voltage Y2, output
42-A6	42-B4	0/5 V DC (pulse)	LCD FRAME signal, output
42-A7	42-B4	0/5 V DC (pulse)	LCD LOAD signal, output
42-A8	42-B4	0/5 V DC (pulse)	LCD CP signal, output
42-A9	42-B4	GND	LCD VSS signal, output
42-A10	42-B4	5 V DC	LCD VDD signal, output
42-A11	42-B4	GND	LCD VSS signal, output
42-A12	42-B4	0/5 V DC	LCD DISPLAY signal, output
42-A13	42-B4	0/5 V DC (pulse)	LCD D0 data, output
42-A14	42-B4	0/5 V DC (pulse)	LCD D1 data, output
42-A15	42-B4	0/5 V DC (pulse)	LCD D2 data, output
42-A16	42-B4	0/5 V DC (pulse)	LCD D3 data, output
42-A17	42-B4	0/5 V DC (pulse)	LCD VEE signal, output
42-B2	42-B1	24 V DC	24 V DC supply for OPCB-R, output
42-B3	42-B4	0/5 V DC	OPCB-R LAMP OFF signal, output
42-B5	42-B4	5 V DC	5 V DC supply for OPCB-R, output
42-B6	42-B4	0/5 V DC (pulse)	OPCB-R DIGLED8 signal, output
42-B7	42-B4	0/5 V DC (pulse)	OPCB-R DIGLED7 signal, output
42-B8	42-B4	0/5 V DC (pulse)	OPCB-R SCAN8 signal, output
42-B9	42-B4	0/5 V DC (pulse)	OPCB-R SCAN7 signal, output
42-B10	42-B4	0/5 V DC (pulse)	OPCB-R SCAN6 signal, output
42-B11	42-B4	0/5 V DC (pulse)	OPCB-R SCAN5 signal, output
42-B12	42-B4	0/5 V DC	OPCB-R DIGKEY9 signal, input
42-B13	42-B4	0/5 V DC	OPCB-R DIGKEY8 signal, input
42-B14	42-B4	0/5 V DC	OPCB-R DIGKEY7 signal, input
42-B15	42-B4	0/5 V DC	OPCB-R DIGKEY6 signal, input
42-B16	42-B4	0/5 V DC	OPCB-R DIGKEY5 signal, input
42-B17	42-B4	0/5 V DC	OPCB-R DIGKEY4 signal, input
43-A1	43-A2	5/0 V DC (pulse)	Printer board* PRINTN signal, output
43-A3	43-A2	5/0 V DC (pulse)	Printer board* SI signal, output
43-A4	43-A2	5/0 V DC (pulse)	Printer board* SCLK signal, input
43-A5	43-A2	5/0 V DC (pulse)	Printer board* SBSY signal, output
*Optional			·

Termina	als (CN)	Voltage	Remarks
43-A6	43-A2	5/0 V DC (pulse)	Printer board* SO signal, input
43-A7	43-A2	5/0 V DC (pulse)	Printer board* RESET signal, output
43-A8	43-A2	5/0 V DC (pulse)	Printer board* PDOUT signal, output
43-A10	43-A2	5/0 V DC (pulse)	Printer board* VDATAP signal, input
43-A12	43-A2	5/0 V DC (pulse)	Printer board* VDATAN signal, input
43-A14	43-A2	5/0 V DC (pulse)	Printer board* FPCLKsignal, output
43-A15	43-A2	5/0 V DC (pulse)	Printer board* FPDAT signal, input
43-A17	43-A2	5/0 V DC (pulse)	Printer board* VDATA signal, input
43-B1	43-A2	5 V DC	Printer board* 5 V DC supply, output
43-B2	43-A2	5 V DC	Printer board* 5 V DC supply, output
43-B3	43-A2	5 V DC	Printer board* 5 V DC supply, output
43-B4	43-A2	5/0 V DC (pulse)	Printer board* SDIR signal, output
43-B5	43-A2	5/0 V DC (pulse)	Printer board* ESGIR signal, output
43-B6	43-A2	5/0 V DC (pulse)	Printer board* VDFON signal, output
43-B7	43-A2	5/0 V DC (pulse)	Printer board* VSREQN signal, output
43-B12	43-A2	5/0 V DC (pulse)	Printer board* FPDIR signal, output
43-B13 43-B15	43-A2 43-A2	5/0 V DC (pulse) 5 V DC	Printer board* FPPOWER signal, output
43-B15 43-B16	43-A2 43-A2	5 V DC	Printer board* 5 V DC supply, output Printer board* 5 V DC supply, output
43-B10 43-B17	43-A2 43-A2	5 V DC	Printer board 5 V DC supply, output
43-B17	43-A2	5 V DC	Printer board 5 V DC supply, output
43-B19	43-A2	5 V DC	Printer board* 5 V DC supply, output
43-B20	43-A2	5 V DC	Printer board* 5 V DC supply, output
44-1	44-2	3.3 V DC	Fax board* 3.3 V DC supply, output
44-3	44-4	5/0 V DC (pulse)	Fax board* FPVCLK signal, output
44-5	44-6	5/0 V DC (pulse)	Fax board* FVCLK signal, input
44-7	44-8	5/0 V DC (pulse)	Fax board* FMRE signal, input
44-9	44-10	5/0 V DC (pulse)	Fax board* /FPVD signal, input
44-11	44-12	5/0 V DC (pulse)	Fax board* /FPHSYNC signal, output
44-13	44-14	5/0 V DC (pulse)	Fax board* /FPVSYNC signal, output
44-15	44-16	5/0 V DC (pulse)	Fax board* /FOVSYNC signal, output
44-17	44-18	5/0 V DC (pulse)	Fax board* /FOHSTHIN signal, output
44-19	44-20	5/0 V DC (pulse)	Fax board* FMIPOUTO signal, output
44-21	44-22	5/0 V DC (pulse)	Fax board* FMREOUT signal, output
44-23	44-24	5/0 V DC (pulse)	Fax board* FFOCLK signal, output
44-25	44-26	5/0 V DC (pulse)	Fax board* /MMISTS signal, output
44-27	44-28	Analog	Fax board* FMMI_TXD2 signal, output
44-29	44-30	Analog	Fax board* FMMI_RXD2 signal, input
44-31	44-30	5/0 V DC (pulse)	Fax board* /FAXRESET signal, output
44-32	44-30	5/0 V DC (pulse)	Fax board* /FAXREADY signal, input
44-33	44-30	5/0 V DC (pulse)	Fax board* /PREQ signal, input
44-34	44-30	5/0 V DC (pulse)	Fax board* /SREQ signal, input
44-35 44-36	44-30 44-30	5/0 V DC (pulse) 5/0 V DC (pulse)	Fax board* /SETFAX signal, input Fax board* /MAINSTS signal, output
44-36	44-30 44-37	Analog	Fax board / MAINSTS signal, output Fax board* FMAIN TXD0 signal, output
44-38	44-37	Analog	Fax board FMAIN_TXD0 signal, output
44-40	44-55	Analog	Tax board Trinking_TXD0 signal, input

2DF

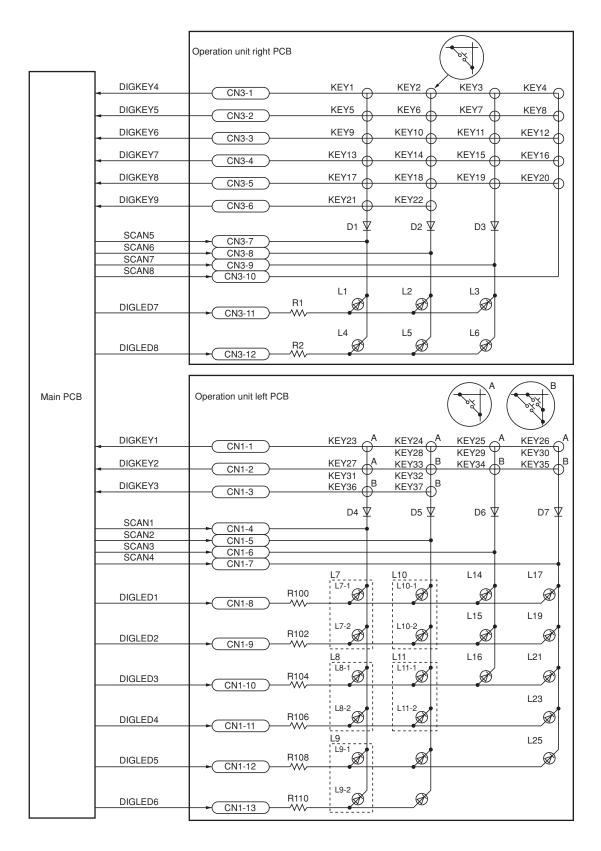


Figure 2-3-5 Operation unit PCB block diagram

The operation unit PCB (OPCB) consists of the operation unit left PCB (OPCB-L) and the operation unit right PCB (OPCB-R).

The operation unit right PCB (OPCB-R) consists of key switches and LEDs. The lighting of LEDs is determined by scan signals (SCAN5 to SCAN8) and LED lighting selection signals (DIGLED7 to DIGLED8) from the main PCB (MPCB). The key switches operated are identified by the scan signals (SCAN5 to SCAN8) and the return signals (DIGKEY4 to DIGKEY9).

As an example, to light LED 1 (L1), the LED lighting selection signal (DIGLED7) should be driven low in synchronization with a low level on the scan signal (SCAN5). LEDs can be lit dynamically by repeating such operations.

As another example, if KEY 1 is pressed, the corresponding key switch is turned on feeding the low level of the scan signal (SCAN5) back to the main PCB (MPCB) via the return signal (DIGKEY4). The main PCB (MPCB) locates the position where the line outputting the scan signal and the line inputting the return signal cross, and thereby determines which key switch was operated.

The operation unit left PCB (OPCB-L) consists of key switches and LEDs. The lighting of LEDs is determined by scan signals (SCAN1 to SCAN4) and LED lighting selection signals (DIGLED1 to DIGLED6) from the main PCB (MPCB). The key switches operated are identified by the scan signals (SCAN1 to SCAN4) and the return signals (DIGKEY1 to DIGKEY3).

As an example, to light LED 7 (L7), the LED lighting selection signal (DIGLED1) should be driven low in synchronization with a low level on the scan signal (SCAN1). LEDs can be lit dynamically by repeating such operations.

As another example, if KEY 23 is pressed, the corresponding key switch is turned on feeding the low level of the scan signal (SCAN1) back to the main PCB (MPCB) via the return signal (DIGKEY1). The main PCB (MPCB) locates the position where the line outputting the scan signal and the line inputting the return signal cross, and thereby determines which key switch was operated.

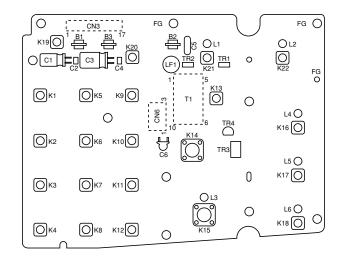


Figure 2-3-6 Operation unit right PCB silk-screen diagram

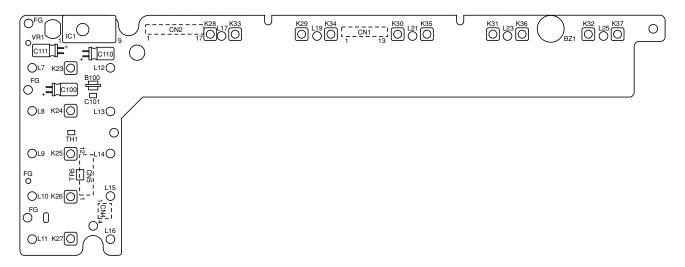


Figure 2-3-7 Operation unit left PCB silk-screen diagram

2DF

Termina	als (CN)	Voltage	Remarks
1-1	3-14	0/5 V DC	OPCB-L DIGKEY1 signal, output
1-2	3-14	0/5 V DC	OPCB-L DIGKEY2 signal, output
1-3	3-14	0/5 V DC	OPCB-L DIGKEY3 signal, output
1-4	3-14	0/5 V DC (pulse)	OPCB-L SCAN1 signal, input
1-5	3-14	0/5 V DC (pulse)	OPCB-L SCAN2 signal, input
1-6	3-14	0/5 V DC (pulse)	OPCB-L SCAN3 signal, input
1-7	3-14	0/5 V DC (pulse)	OPCB-L SCAN4 signal, input
1-8	3-14	0/5 V DC (pulse)	OPCB-L DIGLED1 signal, input
1-9	3-14	0/5 V DC (pulse)	OPCB-L DIGLED2 signal, input
1-10	3-14	0/5 V DC (pulse)	OPCB-L DIGLED3 signal, input
1-11	3-14	0/5 V DC (pulse)	OPCB-L DIGLED4 signal, input
1-12	3-14	0/5 V DC (pulse)	OPCB-L DIGLED5 signal, input
1-13	3-14	0/5 V DC (pulse)	OPCB-L DIGLED6 signal, input
2-1	3-14	0/5 V DC	LCD VEE signal, input
2-2	3-14	0/5 V DC (pulse)	LCD D3 data, input
2-3	3-14	0/5 V DC (pulse)	LCD D2 data, input
2-4	3-14	0/5 V DC (pulse)	LCD D1 data, input
2-4	3-14	0/5 V DC (pulse)	LCD D0 data, input
2-6	3-14	0/5 V DC (pulse)	LCD DISPLAY signal, input
2-7	3-14	GND	LCD VSS signal, input
2-8	3-14	5 V DC	LCD VDD signal, input
2-9	3-14	GND	LCD VSS signal, input
2-10	3-14	0/5 V DC (pulse)	LCD CP signal, input
2-10	3-14	0/5 V DC (pulse)	LCD LOAD signal, input
2-12	3-14	0/5 V DC (pulse)	LCD FRAME signal, input
2-12	3-14 3-14	0/5 V DC (pulse)	Touch panel detection voltage Y2, input
2-13	3-14 3-14	0/5 V DC (pulse)	Touch panel detection voltage X2, input
2-14	3-14 3-14	0/5 V DC (pulse)	Touch panel detection voltage Y2, input
2-15	3-14 3-14	0/5 V DC (pulse)	Touch panel detection voltage X1, output
2-10	3-14 3-14	0/5 V DC (pulse)	OPCB-L BUZZER signal, input
3-1	3-14	0/5 V DC (pulse) 0/5 V DC	OPCB-L BOZZEN Signal, input OPCB-R DIGKEY4 signal, output
3-2	3-14 3-14	0/5 V DC	OPCB-R DIGKEY5 signal, output
3-3	3-14 3-14	0/5 V DC	OPCB-R DIGKEY6 signal, output
3-3	3-14 3-14	0/5 V DC	OPCB-R DIGKEY7 signal, output
3-4	3-14 3-14	0/5 V DC	÷ ,
3-6	3-14 3-14	0/5 V DC	OPCB-R DIGKEY8 signal, output OPCB-R DIGKEY9 signal, output
			÷ .
3-7	3-14	0/5 V DC (pulse)	OPCB-R SCAN5 signal, input
3-8	3-14	0/5 V DC (pulse)	OPCB-R SCAN6 signal, input
3-9	3-14	0/5 V DC (pulse)	OPCB-R SCAN7 signal, input
3-10	3-14	0/5 V DC (pulse)	OPCB-R SCAN8 signal, input
3-11	3-14	0/5 V DC (pulse)	OPCB-R DIGLED7 signal, input
3-12	3-14	0/5 V DC (pulse)	OPCB-R DIGLED8 signal, input
3-13	3-14	5 V DC	5 V DC supply for OPCB-R, input
3-15	3-14	0/5 V DC	OPCB-R LAMP OFF signal, input
3-16	3-17	24 V DC	24 V DC supply for OPCB-R, input
4-1	3-14	0/5 V DC (pulse)	Touch panel detection voltage Y2, output
4-2	3-14	0/5 V DC (pulse)	Touch panel detection voltage X2, output
4-3	3-14	0/5 V DC (pulse)	Touch panel detection voltage Y1, input
4-4	3-14	0/5 V DC (pulse)	Touch panel detection voltage X1, input
5-1	3-14	0/5 V DC (pulse)	LCD FRAME signal, output
5-2	3-14	0/5 V DC (pulse)	LCD LOAD signal, output
5-3	3-14	0/5 V DC (pulse)	LCD CP signal, output
5-4	3-14	GND	LCD VSS signal, output
5-5	3-14	5 V DC	LCD VDD signal, output
5-6	3-14	GND	LCD VSS signal, output
5-7	3-14	Analog	LCD control signal, output

Termina	als (CN)	Voltage	Remarks
5-8	3-14	0/5 V DC	LCD DISPLAY signal, output
5-9	3-14	0/5 V DC (pulse)	LCD D0 data, output
5-10	3-14		LCD D1 data, output
		0/5 V DC (pulse)	
5-11	3-14	0/5 V DC (pulse)	LCD D2 data, output
5-12	3-14	0/5 V DC (pulse)	LCD D3 data, output
6-1	3-14	Analog	LCD BACK LIGHT control signal, output
6-3	3-14	GND	LCD BACK LIGHT control signal, output
-			

### 2-3-4 Scanner drive PCB

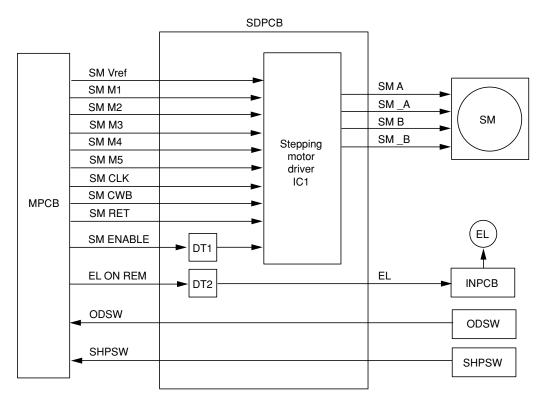


Figure 2-3-8 Scanner drive PCB block diagram

The scanner drive PCB (SDPCB) consists of a stepping motor driver IC (IC1) as the center, digital transistors DT1 and DT2, etc.

Drive of the scanner motor (SM) is controlled by the current setting voltage (SM Vref) that is output from the main PCB (MPCB), the mode signals (SM M1 to M5, SM CWB), the phase switchover clock signal (SM CLK), and the drive/stop signal (SM ENABLE).

Also the main PCB (MPCB) outputs a control signal (EL) through a digital transistor (DT2) to the inverter PCB (INPCB) to turn on or off the exposure lamp (EL).

Also the scanner drive PCB (SDPCB) acts as an interchange circuit of signals for the original detection switch (ODSW) and the scanner home position switch (SHPSW).

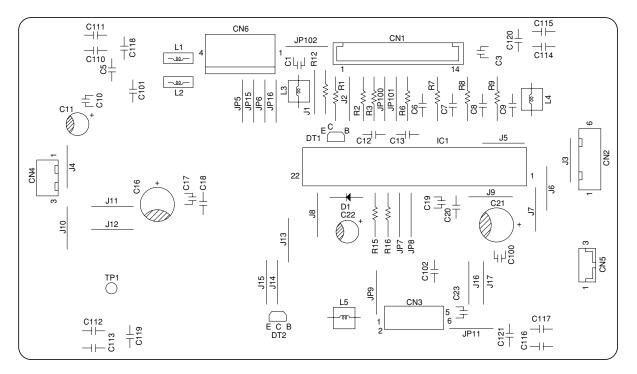


Figure 2-3-9 Scanner drive motor PCB silk-screen diagram

Termina	als (CN)	Voltage	Remarks
1-2	1-1	0/5 V DC	SHPSW on/off, output
1-3	1-1	0/5 V DC	EL on/off, input
1-4	1-1	0/5 V DC	SM ENABLE signal, input
1-5	1-1	0/5 V DC	SM RET signal, input
1-6	1-1	0/5 V DC	SM CWB signal, input
1-7	1-1	0/5 V DC (pulse)	SM CLOCK signal, input
1-8	1-1	0/5 V DC	SM drive control voltage M5, input
1-9	1-1	0/5 V DC	SM drive control voltage M4, input
1-10	1-1	0/5 V DC	SM drive control voltage M3, input
1-11	1-1	0/5 V DC	SM drive control voltage M2, input
1-12	1-1	0/5 V DC	SM drive control voltage M1, input
1-13	1-1		SM current control voltage Vref, input
1-14	1-1	0/5 V DC	ODSW on/off, input
2-1	3-6	0/24 V DC (pulse)	SM coil energization pulse, output (_B)
2-2	3-6	24 V DC	24 V DC supply for SM, output
2-3	3-6	0/24 V DC (pulse)	SM coil energization pulse, output (B)
2-4	3-6	0/24 V DC (pulse)	SM coil energization pulse, output (A)
2-5	3-6	24 V DC	24 V DC supply for SM, output
2-6	3-6	0/24 V DC (pulse)	SM coil energization pulse, output (_A)
3-1	3-5	0/5 V DC	EL on/off, output
3-2	3-5	0/5 V DC	EL on/off, output
3-3	3-5	24 V DC	24 V DC supply for INPCB, output
3-4	3-5	24 V DC	24 V DC supply for INPCB, output
4-1	4-3	5 V DC	5 V DC supply for SHPSW, output
4-2	4-3	0/5 V DC	SHPSW on/off, output
5-1	5-3	5 V DC	5 V DC supply for ODSW, output
5-2	5-3	0/5 V DC	ODSW on/off, output
6-2	6-1	24 V DC	24 V DC supply from PSPCB, input
6-4	6-3	5 V DC	5 V DC supply from PSPCB, input

### 2-3-5 CCD PCB

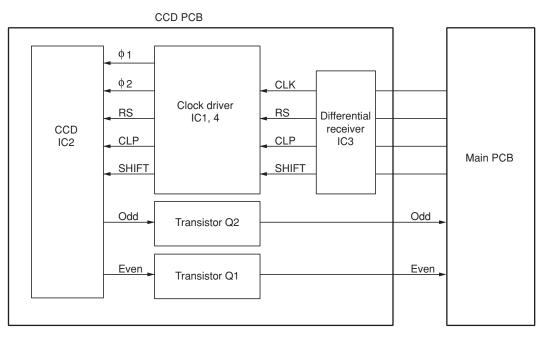


Figure 2-3-10 CCD PCB block diagram

The CCD PCB (CCDPCB) is equipped with a CCD sensor IC2 for original scanning.

The clock signals (CLK, RS, CLP, and SHIFT) for driving the CCD sensor (IC2) are sent as differential signals from the main PCB (MPCB), reconstructed to normal signals by the differential receiver (IC3), and then input to the CCD sensor (IC2) via the clock driver (IC1 and IC4).

Image signals are analog signals. Even- and odd-numbered pixels are output separately. These analog image signals are amplified by emitter followers in the transistors Q1 and Q2 and then transmitted to the analog signal processing circuit in the main PCB (MPCB).

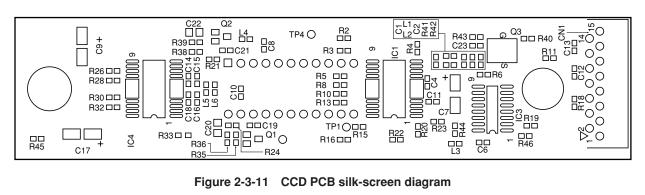
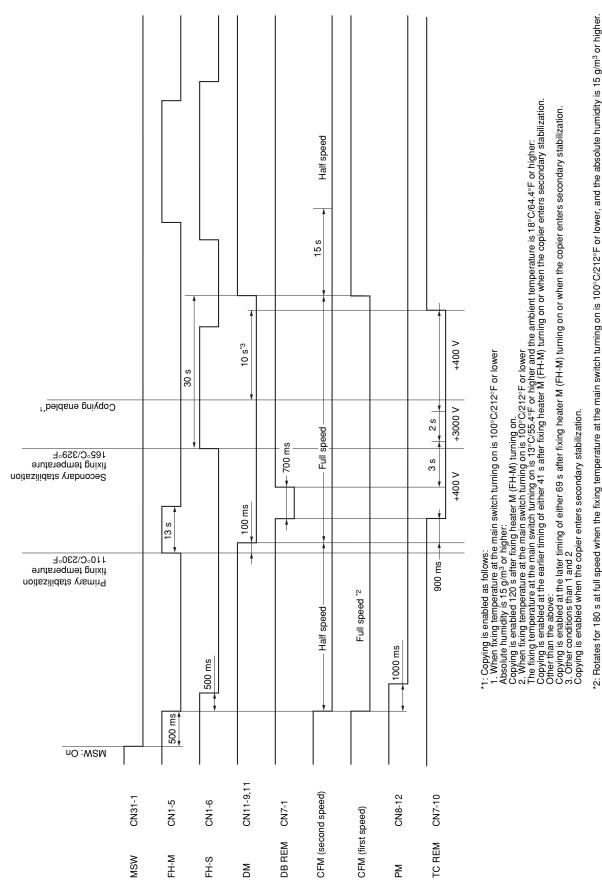


Figure 2-3-11 CCD PCB silk-screen diagram

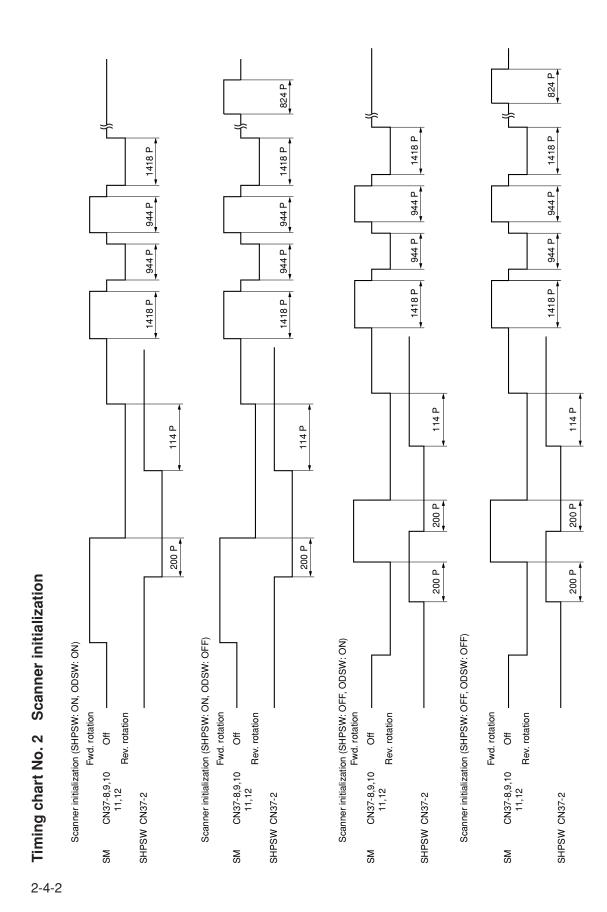
Termi	nals (CN)	Voltage	Remarks
1-1	1-5	0/5 V DC (pulse)	CCDPCB RS – signal, input
1-2	1-5	0/5 V DC (pulse)	CCDPCB RS + signal, input
1-3	1-5	0/5 V DC (pulse)	CCDPCB CLOCK – signal, input
1-4	1-5	0/5 V DC (pulse)	CCDPCB CLOCK + signal, input
1-6	1-5	0/5 V DC (pulse)	CCDPCB SHIFT signal, input
1-8	1-7	0/5 V DC (pulse)	CCDPCB CLP signal, input
1-10	1-9	5 V DC	5 V DC supply from CCDPCB, input
1-11	1-9	12 V DC	12 V DC supply from CCDPCB, input
1-12	1-13	4.5 V DC (pulse)	CCDPCB EVEN signal, output (analog)
1-14	1-15	4.5 V DC (pulse)	CCDPCB ODD signal, output (analog)

Timing chart No. 1 From the main switch turned on to machine stabilization



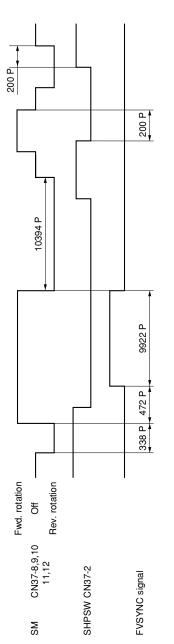
 $^{3}$ : 80 s when the fixing temperature at main switch turning on is 100°C/212°F or lower, and the absolute humidity is 15 g/m<sup>3</sup> or higher.

2DF

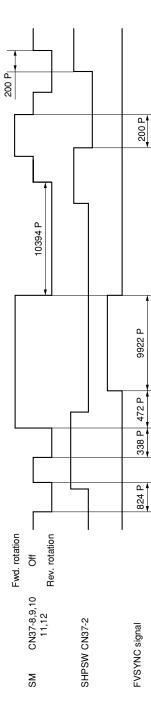


# Timing chart No. 3 Original scanning operation

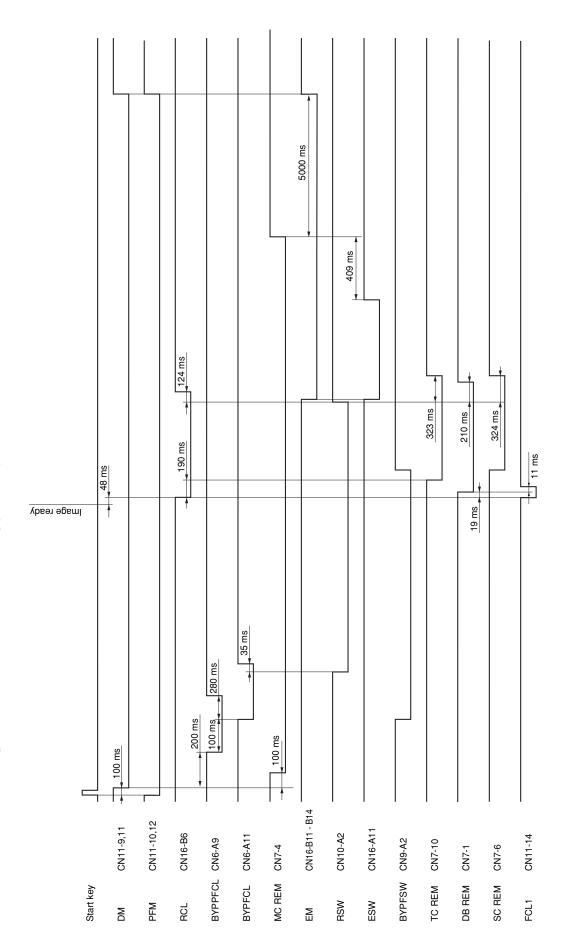




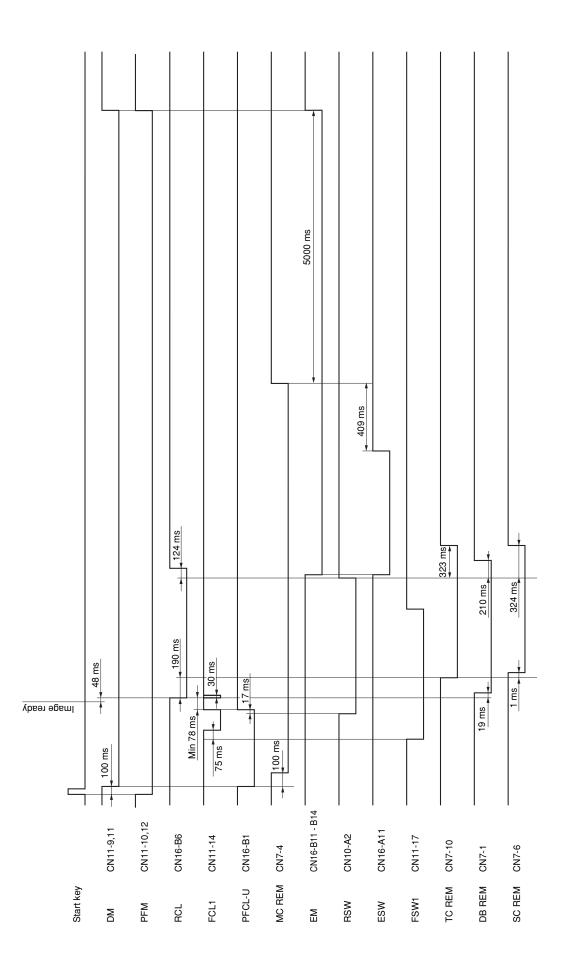




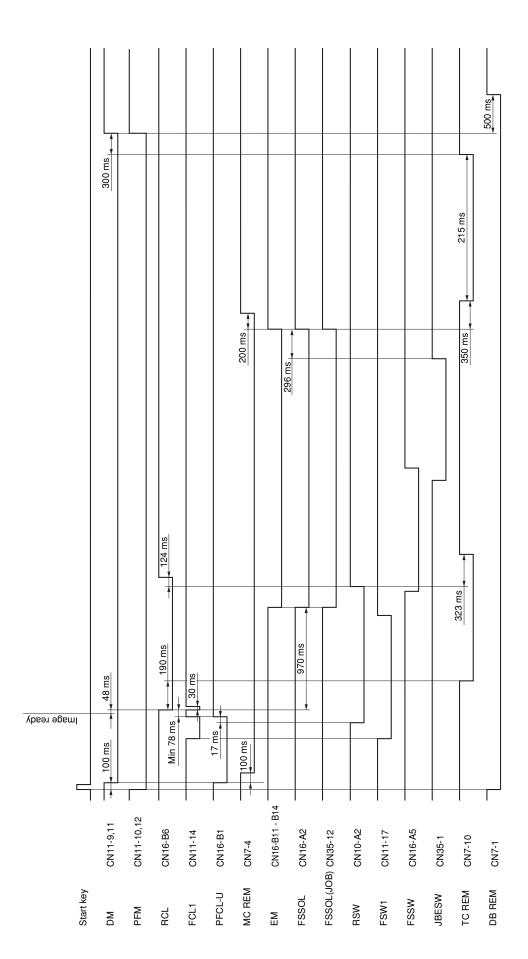
Timing chart No. 4 Copying an A3/11"×17" original onto an A5R/5<sup>1</sup>/<sub>2</sub>"×8<sup>1</sup>/<sub>2</sub>" copy paper from the bypass table, magnification ratio 25%, manual copy density control



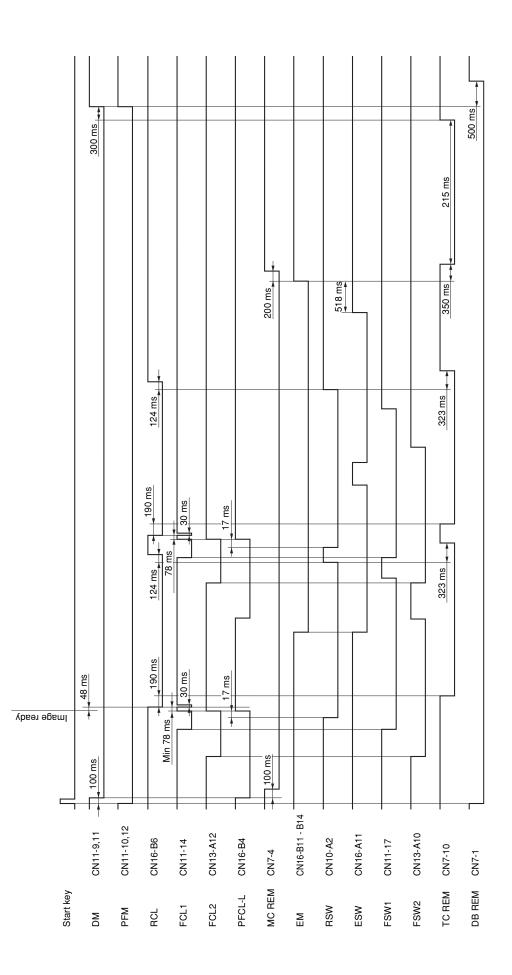
Copying an A4/11"×8<sup>1</sup>/2" original onto an A4/11"×8<sup>1/2</sup>" copy paper from the copier upper drawer, magnification ratio 100%, auto copy density control Timing chart No. 5



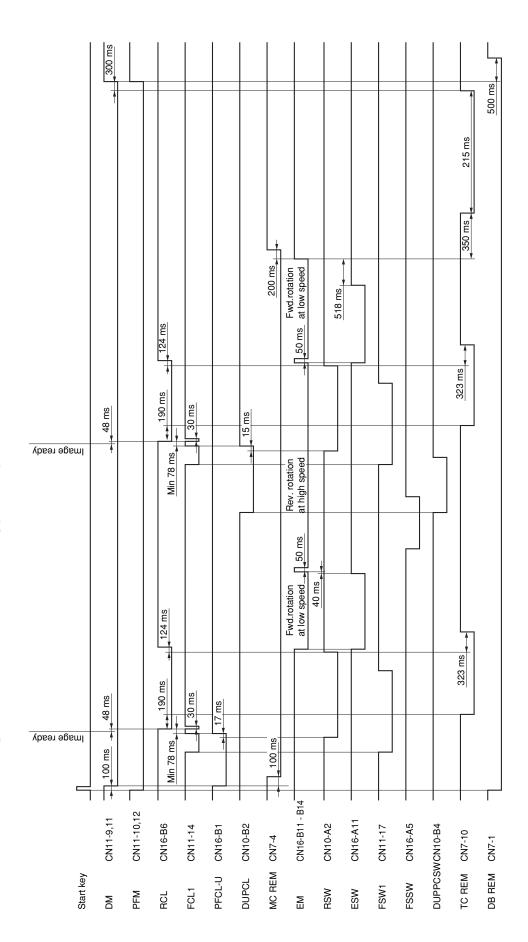
Copying an A4/11"×8<sup>1</sup>/2" original onto an A4/11"×8<sup>1</sup>/2" copy paper from the copier upper drawer, magnification ratio 100%, auto copy density control, ejection to the job separator Timing chart No. 6



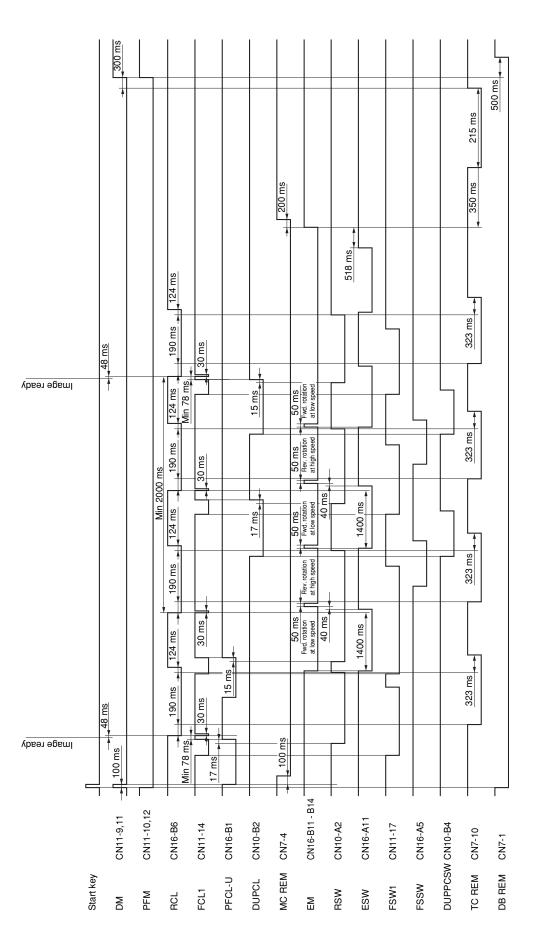
Continuous copying of an A5R/5<sup>1/2</sup>"×8<sup>1/2</sup>" original onto two sheets of A3/11"×17" copy paper from the copier lower drawer, magnification ratio 400%, manual copy density control Timing chart No. 7



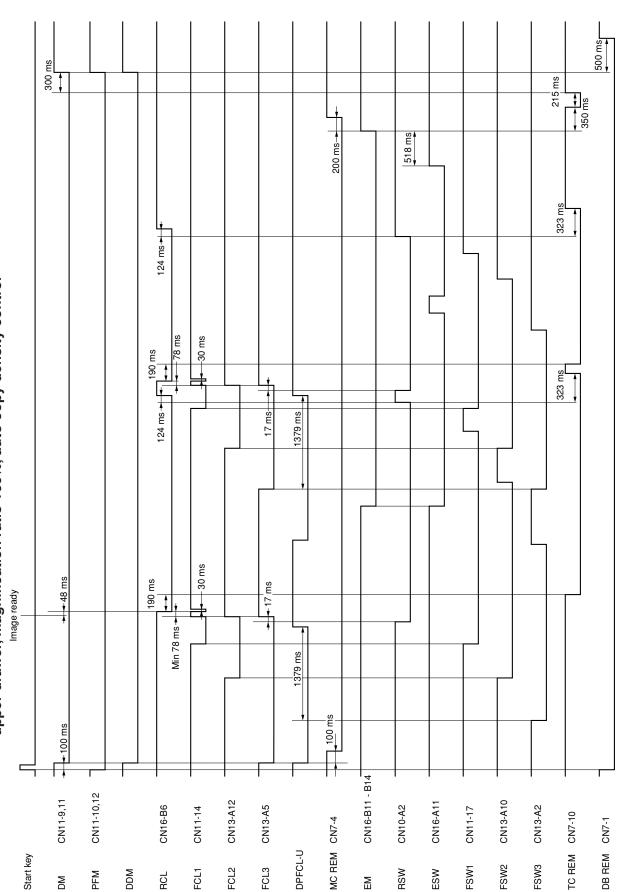
Duplex copying of an A3/11"×17" book original onto one duplex A4/11"×8<sup>1</sup>/2" copy from the copier upper drawer, magnification ratio 100%, auto copy density control Timing chart No. 8



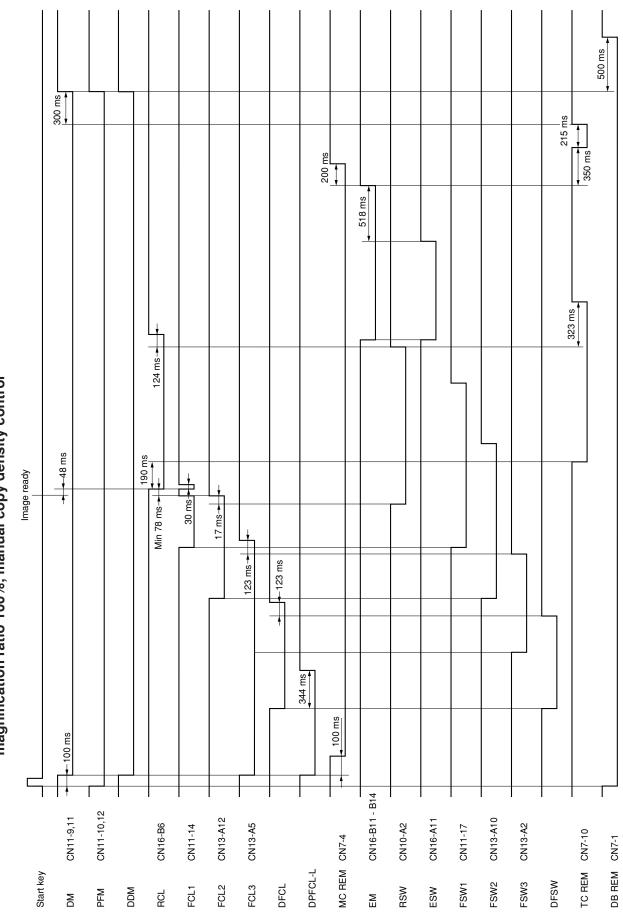
Continuous, duplex copying of two single-sided A4/11"x8<sup>1</sup>/2" originals onto two duplex A4/11"x8<sup>1</sup>/2" copies from the copier upper drawer, magnification ratio 100%, auto copy density control Timing chart No. 9



Continuous copying an A3/11"x17" original onto two sheets of A3/11"x17" copy paper from the paper feed desk upper drawer, magnification ratio 100%, auto copy density control Timing chart No. 10



Copying an A4/11"×8 <sup>1</sup> /2" original onto an A4/11"×8 <sup>1</sup> /2" copy paper from the paper feed desk lower drawer,	magnification ratio 100%, manual copy density control
Timing chart No. 11	



Adjust-				Main	Maintenance mode			
ing order	ltem	Image	Description	Item No.	Mode	Original	Page	Remarks
Θ	Adjusting the lateral square- ness (printing adjustment)		Adjusting the skew of the laser scanner unit (printing adjustment)			U993 (PG2) Test chart	1-6-22	
0	Adjusting the magnification in the main scanning di- rection (printing adjustment)		Polygon motor speed adjustment	U053	POLYGON MOTOR	U053 test pattern	1-4-12	
(9)	Adjusting the magnification in the auxiliary scanning di- rection (printing adjustment)		Drive motor speed adjustment	U053	MAIN MOTOR	U053 test pattern	1-4-12	
(4)	Adjusting the center line of the bypass table (printing adjustment)		Adjusting the LSU print start timing	U034	LSUOUT	U034 test pattern	1-6-12	The center line of the bypass table is used as the reference in the adjustment of the center lines for other paper sources.
٩	Adjusting the center line of the drawers and large paper deck (printing adjustment)		Adjusting the position of the rack adjuster			U034 test pattern		Adjusts the position of each paper source.
٩	Adjusting the leading edge registration (printing adjust- ment)		Registration clutch turning on timing (secondary paper feed start timing)	U034	RCL ON	U034 test pattern	1-6-10	To make an adjustment for duplex copying, select "RCL ON (DUP)".
Ď	Adjusting the leading edge margin (printing adjustment)		LSU illumination start timing	U402	LEAD	U402 test pattern	1-6-13	
۲	Adjusting the trailing edge margin (printing adjustment)		LSU illumination end timing	U402	TRAIL	U402 test pattern	1-6-13	To make an adjustment for duplex copying, select "TRAIL (DUP)".

## Chart of image adjustment procedures

Adjust-		.	:	Main	Maintenance mode			
order	Item	Image	Description	Item No.	Mode	Original	Раде	Hemarks
6	Adjusting the left and right margins (printing adjust- ment)		LSU illumination start/end timing	U402	AC	U402 test pattern	1-6-13	
(1)	Adjusting the lateral square- ness (scanning adjustment)		Adjusting the position of the ISU (scann- ing adjustment)			Test chart	1-6-25	
(1)	Adjusting magnification of the scanner in the main scanning direction (scanning adjustment)		Data processing	U065	MAIN SCAN ADJ	Test chart	1-6-27	No adjustment for copying using the DF.
(12)	Adjusting magnification of the scanner in the auxiliary scanning direction (scanning adjustment)		Original scanning speed	U065 U070	SUB SCAN ADJ ADJUST DATA	Test chart	1-6-28 1-4-15	U065: For copying an original placed on the contact glass. U070: For copying originals from the DF.
(13)	Adjusting the center line (scanning adjustment)		Adjusting the original scan data (image adjustment)	U067 U072	ADJUST DATA ADJUST DATA	Test chart	1-6-30 1-4-17	U067: For copying an original placed on the contact glass. U072: For copying originals from the DF.
(14)	Adjusting the leading edge registration (scanning ad-justment)	*	Original scan start timing	U066 U071	ADJUST DATA LEAD EDGE ADJ	Test chart	1-6-29 1-4-16	U066: For copying an original placed on the contact glass. U071: For copying originals from the DF.
(15)	Adjusting the leading edge margin (scanning adjust- ment)	×	Adjusting the original scan data (image adjustment)	U403 U404	B MARGIN B MARGIN	Test chart	1-6-31 1-4-49	U403: For copying an original placed on the contact glass. U404: For copying originals from the DF.
( <u>)</u>	Adjusting the trailing edge margin (scanning adjust- ment)		Adjusting the original scan data (image adjustment)	U403 U404	D MARGIN D MARGIN	Test chart	1-6-31 1-4-49	U403: For copying an original placed on the contact glass. U404: For copying originals from the DF.

Adjust-	mot	openi	Docarintian	Mair	Maintenance mode	Ovinial	Dago	o homo
order				Item No.	Mode		Lage	
Ē	Adjusting the left and right margins (scanning adjust- ment)		Adjusting the original scan data (image adjustment)	U403 U404	J403 AC MARGIN J404 AC MARGIN	Test chart	1-6-31 1-4-49	U403: For copying an original placed on the contact glass. U404: For copying originals from the DF.
	When maintenance item 11000 / Adjusting the connection metions	itomotio vocació	ماليان المرابع		following adjuntments	and the stand in the stand in the stand is a stand		

When maintenance item U092 (Adjusting the scanner automatically) is run using the specified original (P/N 2A068020), the following adjustments are automatically made: • Adjusting the scanner center line (U067) • Adjusting the scanner leading edge registration (U066) • Adjusting the scanner magnification in the main scanning direction (U065) • Adjusting the scanner magnification in the auxiliary scanning direction (U065)

### Image quality

ltem	Specifications
100% magnification	Copier: ±0.8%
	Using SRDF: ±1.5%
Enlargement/reduction	Copier: ±1.0%
	Using SRDF: ±1.5%
Lateral squareness (copier mode)	Copier: ±1.5 mm/375 mm
	Using SRDF: ±2.5 mm/375 mm
Lateral squareness (printer mode)	±1.0 mm/375 mm
Margins (copier mode)	A: 2.0 <sup>+2.0</sup> / <sub>-1.5</sub> mm
	B: 3.0 ± 2.5 mm
	C: 2.0 <sup>+2.0</sup> mm
	D: 3.0 ± 2.5mm
Margins (printer mode)	A: 6.0 ± 2.0 mm
	B: 6.0 ± 2.5 mm
	C: 6.0 ± 2.0 mm
	D: 6.0 ± 2.5 mm
Leading edge registration	Drawer: ±2.5 mm
	Bypass: ±2.5 mm
	Duplex copying: ±2.5 mm
Skewed paper feed (left-right difference)	Drawer: 1.5 mm or less
	Bypass: 1.5 mm or less
	Duplex copying: 2.0 mm or less
Lateral image shifting	Drawer: ±2.0 mm or less
	Bypass: ±2.0 mm or less
	Duplex copying: ±3.0 mm or less
Curling	Drawer: ±3.0 mm or less
	Bypass: 10.0 mm or less
	Duplex copying: 10.0 mm or less

### Maintenance parts list

Main	tenance part name	David Na		Def Ne
Name used in service manual	Name used in parts list	Part No.	Fig. No.	Ref. No.
Upper/lower paper feed pulley	PULLEY, PAPER FEED	2AR07220	4	4
Upper/lower separation pulley	PULLEY, SEPARATION	2AR07230	4	5
Upper/lower fowarding pulley	PULLEY, LEADING FEED	2AR07240	4	6
Bypass paper feed pulley	UPPER PULLEY, BYPASS	61706770	10	29
Bypass separation pulley	PULLEY, SEPARATION	2AR07230	10	20
Bypass forwarding pulley	PULLEY, LEADING FEED	2AR07240	10	34
Bypass feed roller 1	ROLLER2 BYPASSFEED	2BL06540	11	11
Bypass feed roller 2	ROLLER4 BYPASSFEED	2BL06560	11	12
Left registration roller	ROLLER REGIST L	2BL16021	7	11
Right registration roller	RIGHT ROLLER REGIST	2BL06270	5	51
Feed pulley	PULLEY FEED	2BL16080	6,7	37,8
Feed roller 1	PULLEY FEED	2BL06930	5	59
Feed roller 2	ROLLER B FEED	2BL06080	5	5
Feed roller 3	ROLLER C FEED	2BL06090	5	6
Registration switch	SWITCH REGISTRATION	2BL27420	5	32
Contact glass	CONTACT GLASS	35912010	9	46
Slit glass	CONTACT GLASS, ADF	2AV12250	9	19
Mirror 1	MIRROR A	2AV12150	9	9
Mirror 2 and mirror 3	MIRROR B	2AV12160	9	10
Exposure lamp	LAMP, SCANNER	2AV12100	9	4
Original size detection switvh	SENSOR, ORIGINAL	35927290	9	53
Transfer roller unit	TR-700 TRANSFER ASS'Y	5PLPXHLAPKX	7	25
Developing unit	DEVELOPER ASS'Y	2BJ93010	13	1
Drum unit	DRUM ASS'Y	2BJ93020	15	1
Main charger unit	MC ASS'Y	2BL93090	15	48
Fixing unit	FIXING ASS'Y 120	2BJ93040	14	-
	FIXING ASS'Y 230	2BJ93050	14	-
Press roller separation claw	CLAW, PRESS ROLLER	2BL20350	6	8
Eject roller	ROLLER EXIT	2BL21020	8	4
Switchback roller	ROLLER FEED SHIFT	2BL21030	8	3
Eject pulley	PULLEY EXIT B	2BL21520	8	37
Switchback pulley	PULLEY FEED SHIFT	2BL21330	6	2

### Periodic maintenance procedures

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Test copy and test print	Perform at the maximum copy size	Test copy	Every service		



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Paper feed section	Upper/lower paper feed pulley	Replace	Every service	Replace.	1-6-3
	Upper/lower separation pulley	Replace	Every service	Replace.	1-6-3
	Upper/lower forwarding pulley	Replace	Every service	Replace.	1-6-3
	Bypass paper feed pulley	Replace	Every service	Replace.	1-6-5
	Bypass separation pulley	Replace	Every service	Replace.	1-6-5
	Bypass forwarding pulley	Replace	Every service	Replace.	1-6-5
	Bypass feed roller 1	Clean	Every service	Clean with alcohol or a dry cloth.	
	Bypass feed roller 2	Clean	Every service	Clean with alcohol or a dry cloth.	
	Left registration roller	Clean	Every service	Clean with alcohol or a dry cloth.	
	Right registration roller	Clean	Every service	Clean with alcohol or a dry cloth.	
	Feed pulley	Clean	Every service	Clean with alcohol or a dry cloth.	
	Feed roller 1	Clean	Every service	Clean with alcohol or a dry cloth.	
	Feed roller 2	Clean	Every service	Clean with alcohol or a dry cloth.	
	Feed roller 3	Clean	Every service	Clean with alcohol or a dry cloth.	
	Registration switch	Clean	Every service	Clean with a dry cloth.	

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Optical section	Slit glass	Clean	Every service	Clean with alcohol and then a dry cloth.	
	Contact glass	Clean	Every service	Clean with alcohol and then a dry cloth.	
	Mirror 1	Clean	Every service	Clean with alcohol and then a dry cloth only if vertical black lines appear on the copy image.	
	Mirror 2 and mirror 3	Clean	Every service	Clean with alcohol and then a dry cloth only if vertical black lines appear on the copy image.	
	Lens	Clean	Every service	Clean with a dry cloth only if vertical black lines appear on the copy image.	
	Reflector	Clean	Every service	Clean with a dry cloth only if vertical black lines appear on the copy image.	
	Exposure lamp	Clean or replace	Every service	Replace if an image problem occurs.	
	Optical rail	Grease	Every service	Check noise and shifting and then apply scanner rail grease PG671.	
	Original size detection sensor	Clean	Every service	Clean the sensor emitter and receiver with alcohol or a dry cloth only if there is a problem.	

ļļ

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Transfer/ separation section	Transfer roller unit	Replace	Every service	Replace.	1-6-35
		Ĺ	7		

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Developing section	Developing unit	Replace	Every service	Replace.	1-6-34

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Main charging/ drum section	Drum unit	Replace	Every service	Replace.	1-6-32

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Fixing section	Fixing unit Press roller separation claw	Replace Check, replace and clean	Every service Every service	Replace. Check and replace if it is deformed. Clean with alcohol after feeding 500,000 sheets.	1-6-36

### Maintenance Section Points and cautions Page Method Maintenance cycle part/location Eject section Eject roller Clean Every service Clean with alcohol or a dry cloth. Eject pulley Every service Clean with alcohol or a dry cloth. Clean Switchback roller Clean Clean with alcohol or a dry cloth. Every service Switchback pulley Clean Every service Clean with alcohol or a dry cloth.

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Covers	Covers	Clean	Every service	Clean with alcohol or a dry cloth.	

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Other	Image quality	Check and adjust	Every service		

2DF

### Optional devices supplied parts list

### Paper feed desk

Name used in service manual	Name used in installation guide	Part No.
Retainer	Retainer	3AT02150
Pin	Pin	74315200
$CVM4 \times 06$ cross-head chromate binding screw	Cross-head chromate binding screw, CVM4 $\times$ 06	B1004060
Stay	Stay	3AT02250
$M4 \times 10$ chrome TP screw	Chrome TP screw, $M4 \times 10$	B4104100

### Facsimile System

Name used in service manual	Name used in installation guide	Part No.
Fax board	Fax board	3CM01020
Auxiliary power source PCB (100 V)	Auxiliary power source PCB (100 V)	3CM01030
Auxiliary power source PCB (200 V)	Auxiliary power source PCB (200 V)	3CM01040
Fax kit label sheet	Fax kit label sheet	3CM05010
Certification label (120 V only)	FCC68 label sheet (120 V only)	3CM05040
Certification label (120 V only)	LINE IC label sheet (120 V only)	3CM05030
NCU retainer	NCU retainer	3CM26010
Auxiliary power source retainer	Auxiliary power source retainer	3CM26020
Fax cable	Fax cable	3CM27010
Fax-PCB-Power cable	Fax-PCB-Power cable	3CM27040
NCU board (N.A.)	NCU board (N.A.)	3CM01030
NCU board (CTR)	NCU board (CTR)	3CM01040
NCU board (EUG)	NCU board (EUG)	3CM01050
NCU cable	NCU cable	2AW27020
Battery pack	Battery pack	2AW27070
Speaker	Speaker	35427120
Modular connecter cable (120 V only)	"B" Modular connecter cable (120 V only)	76727300
$M3 \times 06$ chrome binding screw	+TP-A chrome binding screw $M3 \times 06$	B4103060
Upper-sheet	Upper-sheet	3CM26030
Lower-sheet	Lower-sheet	3CM26040

### Network facsimile System

Name used in service manual	Name used in installation guide	Part No.
Fax board	Fax board	3DB01010
Auxiliary power source PCB assembly (100 V)	Auxiliary power source PCB assembly (100 V)	3CM01030
Auxiliary power source PCB assembly (200 V)	Auxiliary power source PCB assembly (200 V)	3CM01040
Fax kit label sheet	Fax kit label sheet	3CM05010
Certification label (120 V only)	FCC68 label sheet (120 V only)	3CM05040
Certification label (120 V only)	LINE IC label sheet (120 V only)	3CM05030
Modular connecter cable (120 V only)	"B" Modular connecter cable (120 V only)	76727300
$M3 \times 06$ chrome binding screw	+TP-A chrome binding screw M3 $\times$ 06	B4103060
Fax cable	Fax cable	3CM27010
Fax-PCB-Power cable	Fax-PCB-Power cable	3CM27040
NCU board assembly (N.A.)	NCU board assembly (N.A.)	3B101030
NCU board assembly (CTR)	NCU board assembly (CTR)	3B101040
NCU cable	NCU cable	2AW27020

### Printing System

Name used in service manual	Name used in installation guide	Part No.
Clamp	Clamp, CKN-05	M2105890
Band	Band	M2307010

### Scanning System

Name used in service manual	Name used in installation guide	Part No.
RTC board	RTC board	3CS01010
Sccaner board	Sccaner board	3B301010
CD-ROM (scanner)	CD-ROM (scanner)	3B327010
CD-ROM (document processing)	CD-ROM (document processing)	3BJ27060

### Duplex unit

Name used in service manual	Name used in installation guide	Part No.
Nut plate	Nut plate	2BL07120
$M3 \times 10$ bronze binding screw	$M3 \times 10$ bronze binding screw	B1303100

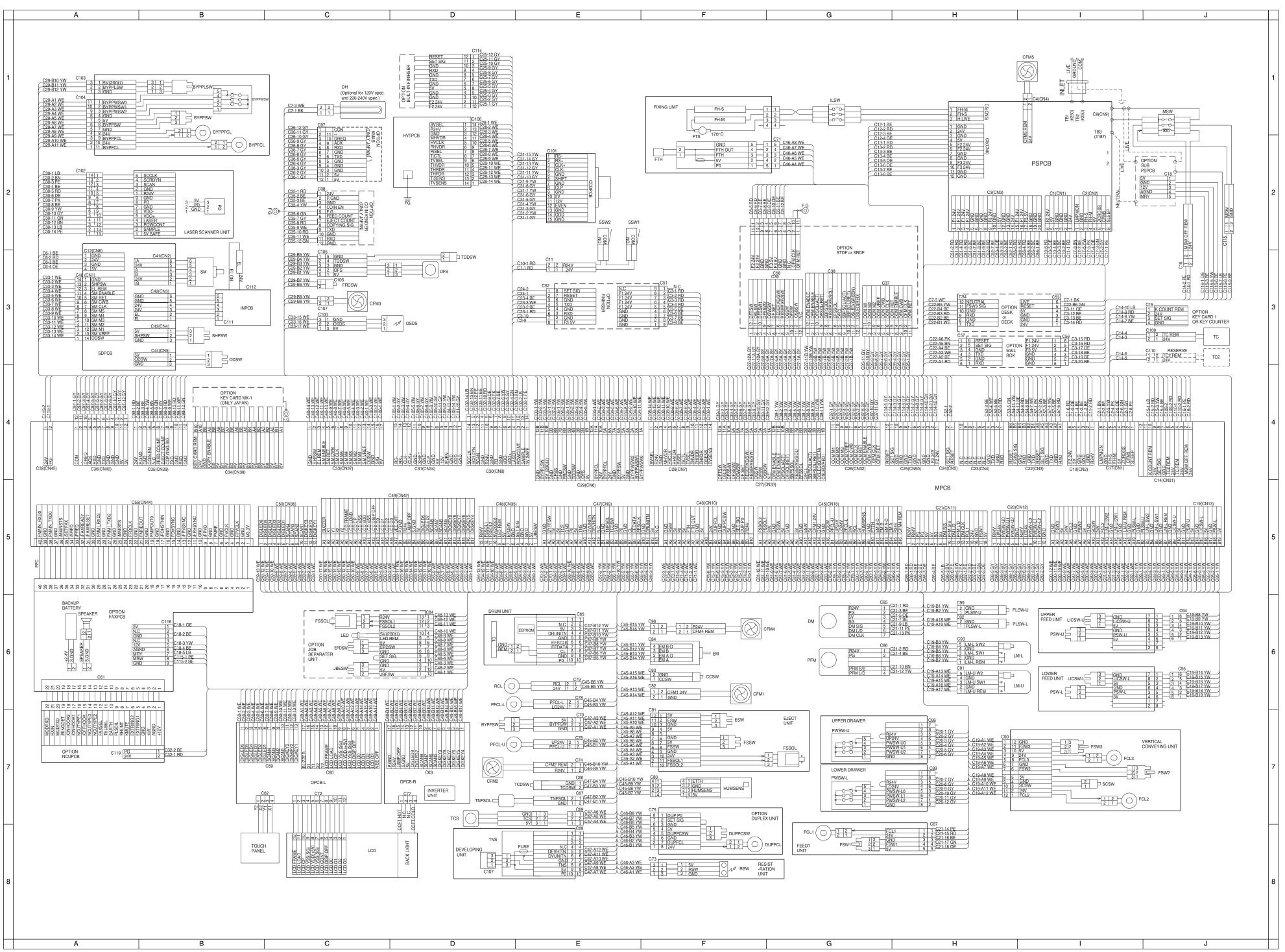
### **Built-in finisher**

Name used in service manual	Name used in installation guide	Part No.
Large ejection cover	Large ejection cover	3B504020
Front ejection cover	Front ejection cover	3B504080
Rear ejection cover	Rear ejection cover	3B504090
Flat spring ejection	Flat spring ejection	3B502050
+TP-A chrome screw M3 $\times$ 05	+TP-A chrome screw M3 $\times$ 05	B4103050
+TP-A bronze screw $M3 \times 05$	+TP-A bronze screw M3 $\times$ 05	B4303050

### Job separator

Name used in service manual	Name used in installation guide	Part No.
Job separator tray	Job separator tray	3B620030
Left front cover JS	Left front cover JS	3B604010
+TP-A bronze screw M3 $\times$ 05	+TP-A bronze screw M3 $\times$ 05	B4303050

### General wiring diagram



2-4-20

2DF

# AD-63

# CONTENTS

1-1	Specifications	
	1-1-1 Specifications	1-1-1
	1-1-2 Part names	
	1-1-3 Machine cross section	1-1-3
	1-1-4 Drive system	1-1-4
1-2	Installation	
	1-2-1 Unpacking	1-2-1
1-3	Troubleshooting	
	1-3-1 Paper misfeed detection	1-3-1
	(1) Paper misfeed indication	
	(2) Paper misfeed detection conditions	
	(3) Paper misfeeds	
	1-3-2 Electrical problems	
	(1) The duplex feed clutch does not operate.	
	1-3-3 Mechanical problems	
	(1) Paper jams.	
	(2) Abnormal noise is heard.	1-3-5
1-4	Assembly and Disassembly	
	1-4-1 Precautions for assembly and disassembly	
	(1) Precautions	
	1-4-2 Procedure for assembly and disassembly	
	(1) Adjusting the margin for printing	
	<ul> <li>(2) Adjusting the amount of slack at the registration roller</li></ul>	
	(3) Adjusting the center line of image printing	1-4-4
2-1	Mechanical construction	
	2-1-1 Construction of each section	2-1-1
	(1) Paper conveying operation in duplex copying	2-1-2
2-2	Electrical Parts Layout	
	2-2-1 Electrical parts layout	2-2-1
2-3	Appendixes	
	Periodic maintenance procedures	2-3-1

# 1-1-1 Specifications

Туре	. Enclosed
Paper	. Plain paper: 75 – 80 g/m²
	Special paper: colored paper
Paper sizes	. A3 − A5R, folio/11" × 17" − 5 <sup>1</sup> / <sub>2</sub> " × 8 <sup>1</sup> / <sub>2</sub> "
Power source	. Electrically connected to the copier
Weight	. Approximately 4.8 kg/10.56 lbs

# 1-1-2 Part names

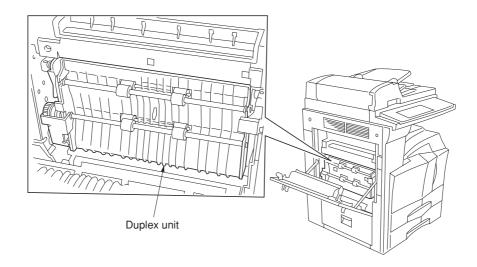


Figure 1-1-1

# 1-1-3 Machine cross section

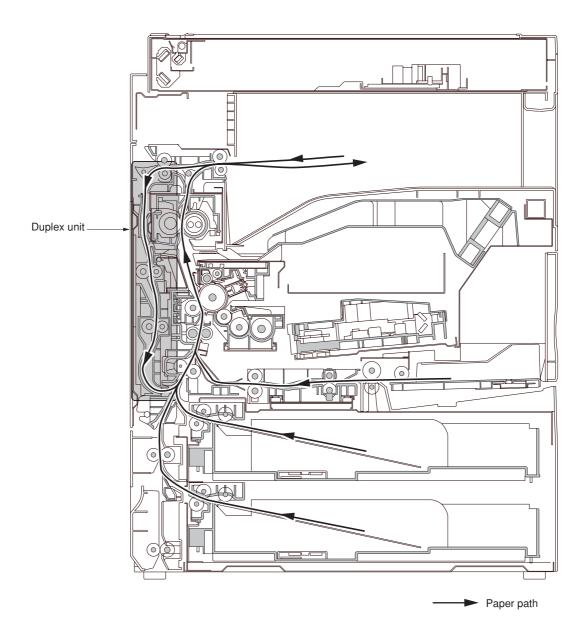


Figure 1-1-2

# 1-1-4 Drive system

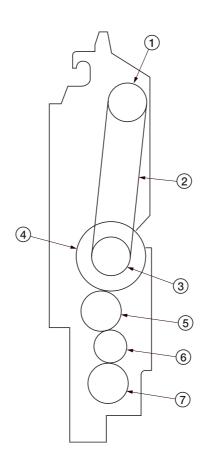
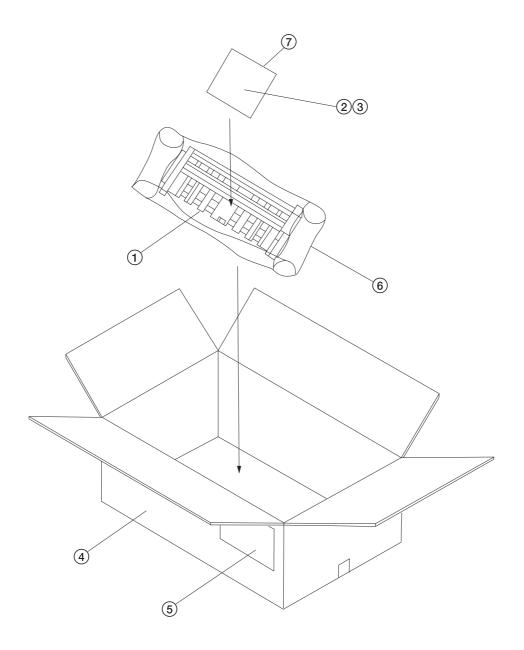


Figure 1-1-3

- Pulley T30
   Duplex belt
   Pulley T30
   Pulley T30
   Duplex feed clutch gear
   Gear 25
   Idle gear 20
   Gear 25



## Figure 1-2-1 Unpacking

- Duplex unit
   Nut plate
   M3 × 10 bronze binding screws

- (a) Mi3 × 10 biolize
  (d) Outer case
  (e) Bar-code label
  (f) Air-padded bag
  (f) Plastic bag

# 1-3-1 Paper misfeed detection

#### (1) Paper misfeed indication

When paper jams, the machine immediately stops operation and the occurrence of a paper jam is indicated on the copier operation panel.

To remove the jammed paper, open the conveying cover.

To reset the paper misfeed detection, open and close the conveying cover to turn safty switch 2 off and on.

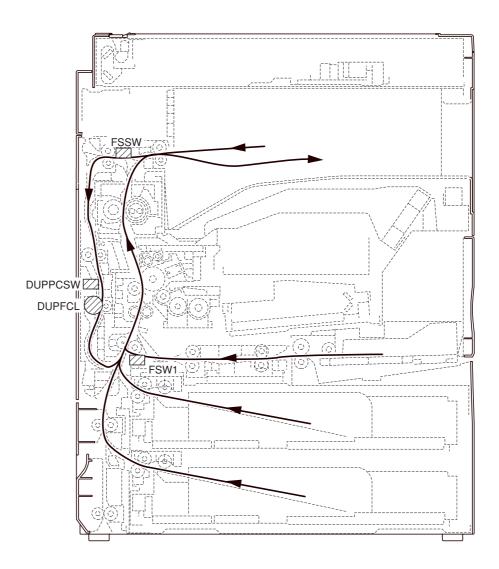
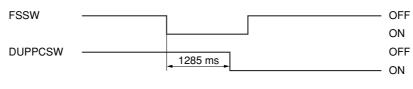


Figure 1-3-1 Paper misfeed detection

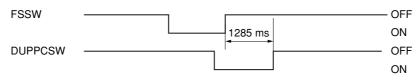
## (2) Paper misfeed detection condition

• Duplex paper conveying section 1 (jam code 60) The duplex paper conveying switch (DUPPCSW) does not turn on within 1285 ms of the feedshift switch (FSSW) turning on.





The duplex paper conveying switch (DUPPCSW) does not turn off within 1285 ms of the feedshift switch (FSSW) turning off.





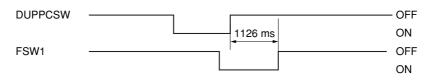
• Duplex paper conveying section 2 (jam code 61)

Feed switch 1 (FSW1) does not turn on within 1126 ms of the duplex paper conveying switch (DUPPCSW) turning on.



Timing chart 1-3-3

Feed switch 1 (FSW1) does not turn off within 1126 ms of the duplex paper conveying switch (DUPPCSW) turning off.





Problem

Causes

Check procedures/corrective measures	
ny found.	
	_
enance item U031 and turn the duplex paper switch on and off manually. Replace the switch if	
of the corresponding switch on the operation panel is	
ved in reverse.	

Problem	Causes	Check procedures/corrective measures
(1) Paper jams in the duplex unit when the main switch is turned	A piece of paper torn from copy paper is caught around duplex paper conveying switch.	Remove any found.
on.	Defective duplex paper conveying switch.	Run maintenance item U031 and turn the duplex paper conveying switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(2) Paper jams in the	Broken feedshift switch actuator.	Check visually and replace the feedshift switch if its actuator is broken.
duplex unit during copying (jam in duplex paper conveying section 1).	Defective feedshift switch.	Run maintenance item U031 and turn the feedshift switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Broken duplex paper conveying switch actuator.	Check visually and replace the duplex paper conveying switch if its actuator is broken.
	Defective duplex paper conveying switch.	Run maintenance item U031 and turn the duplex paper conveying switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(3) Paper jams in the	Broken duplex paper conveying switch actuator.	Check visually and replace the duplex paper conveying switch if its actuator is broken.
duplex unit during copying (jam in duplex paper conveying section 2).	Defective duplex conveying switch.	Run maintenance item U031 and turn the duplex paper conveying switch on and off manually. Replace the duplex paper conveying switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
	Broken feed switch 1 actuator.	Check visually and replace feed switch 1 if its actuator is broken.
	Defective feed switch 1.	Run maintenance item U031 and turn feed switch 1 on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.

# 1-3-2 Electrical problems

Problem	Causes	Check procedures/corrective measures
(1) The duplex feed	Broken duplex feed clutch coil.	Check for continuity across the coil. If none, replace the duplex feed clutch.
clutch does not operate.	Poor contact of the duplex feed clutch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
operate.	feed clutch connector	Run maintenance item U032 and check if CN10-B2 on the copier main PCB goes low. If not, replace the main PCB.

### зсх

# 1-3-3 Mechanical problems

Problem	Causes/check procedures	Corrective measures
(1) Paper jams.	Check if the duplex feed pulley, upper duplex feed roller or lower duplex feed roller is deformed.	Check visually and replace the pulley or roller if deformed.
(1) Paper jams. (2) Abnormal noise is heard.	feed roller or lower duplex feed roller is	Check visually and replace the pulley or roller if deformed. Grease the bushings and gears.

#### 1-4-1 Precautions for assembly and disassembly

#### (1) Precautions

- Be sure to turn the main switch off and disconnect the power plug before starting disassembly.
- When handling PCBs, do not touch connectors with bare hands or damage the board.
- Do not touch any PCB containing ICs with bare hands or any object prone to static charge.
- Use the following testers when measuring voltages:

Hioki 3200 Sanwa MD-180C Sanwa YX-360TR Beckman TECH300 Beckman DM45 Beckman 330\* Beckman 3030\* Beckman DM850\* Fluke 8060A\* Arlec DMM1050 Arlec YF1030C

- \* Capable of measuring RMS values.• Prepare the following as test originals:
- 1. NTC (new test chart)
- 2. NPTC (newspaper test chart)

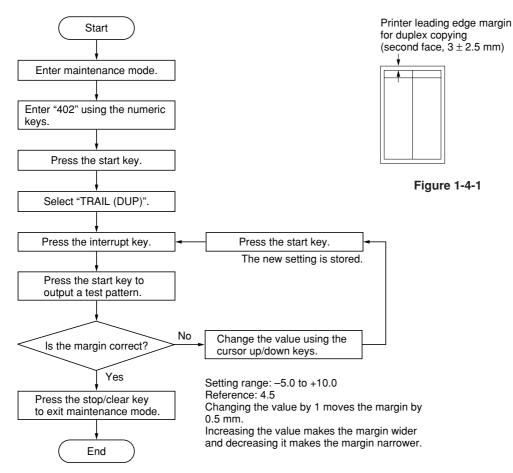
#### 3CX

#### 1-4-2 Procedure for assembly and disassembly

#### (1) Adjusting the margin for printing

Perform the following adjustment if the printer leading edge margin for duplex copying (second face) is not correct.

#### Procedure



Сору

example 1

Figure 1-4-2

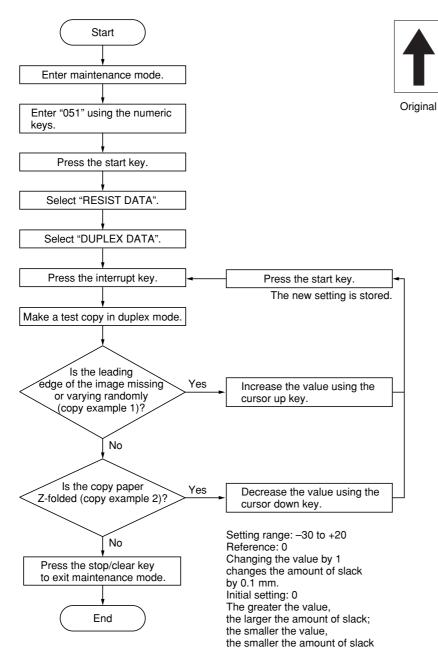
Copy

example 2

#### (2) Adjusting the amount of slack at the registration roller

Perform the following adjustment if the leading edge of the copy image is missing or varies randomly, or if the copy paper is Z-folded during duplex copying.

#### Procedure

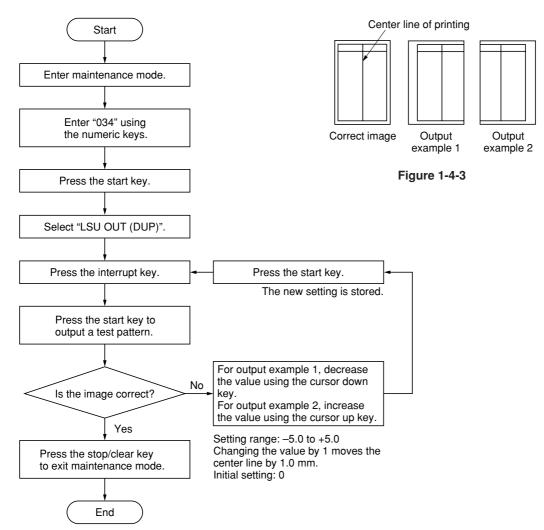


#### 3CX

#### (3) Adjusting the center line of image printing

Make the following adjustment if there is a regular error between the center lines of the copy image and original when copying using the duplex unit.

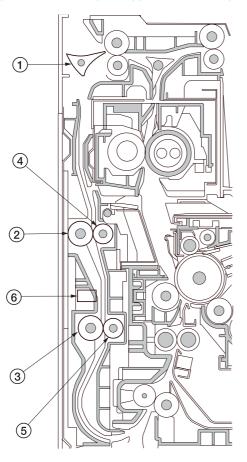
#### Procedure



3CX

## 2-1-1 Construction of each section

The duplex unit consists of the components shown in Figure 2-1-1. In duplex mode, after copying on to the reverse face of the paper, the paper is reversed in the switchback section and conveyed to the duplex unit. The paper is then conveyed to the copier paper feed section by the upper and lower duplex feed rollers.



- 1 Feedshift guide
- (2) Upper duplex feed roller
- (3) Lower duplex feed roller
- $(\bar{4})$  Duplex feed pulley
- (5) Duplex feed pulley
- (6) Duplex paper conveying switch (DUPPCSW)

Figure 2-1-1 Duplex unit

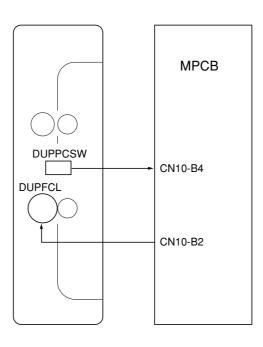


Figure 2-1-2 Duplex unit block diagram

## (1) Paper conveying operation in duplex copying

Paper of which copying onto the reverse side is complete is conveyed to the switchback section, the eject motor switches from nomal rotation to reverse rotation to switch the eject roller to reverse rotation, and the paper conveying direction is reversed. Paper that has been switched back is conveyed to the duplex unit via the eject roller and the switchback roller. Paper that has been conveyed to the duplex unit is conveyed to the paper feed section again by rotation of the upper duplex feed roller and the lower duplex feed roller and copying onto the front side is performed.

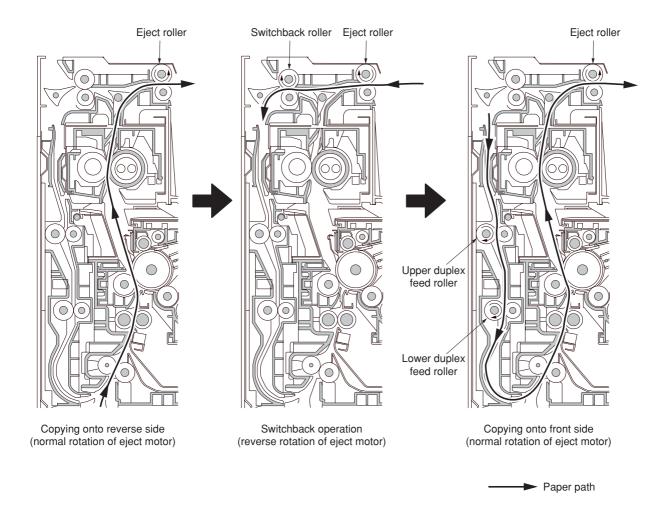


Figure 2-1-3

#### зсх

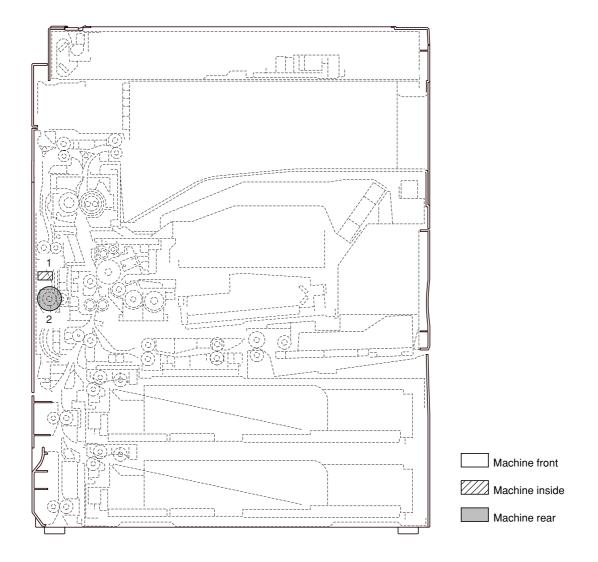


Figure 2-2-1 Duplex unit

<ol> <li>Duplex paper conveying switch</li> </ol>	
(DUPPCSW)	Detects a paper jam in the duplex unit.
2. Duplex paper feed clutch	
	. Controls the drive of the duplex feed roller.

# Periodic maintenance procedures

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Paper conveying section	Upper duplex feed roller Lower duplex feed roller	Clean Clean	Every service Every service	Clean with alcohol or a dry cloth. Clean with alcohol or a dry cloth.	

# **DF-78**

# CONTENTS

1-1	Specifications	
	1-1-1 Specifications	1-1-1
	1-1-2 Part names	1-1-2
	1-1-3 Machine cross section	1-1-3
	1-1-4 Drive system	1-1-4
1 0	Installation	
1-2	Installation	101
	1-2-1 Unpacking	1-2-1
1-3	Troubleshooting	
_	1-3-1 Paper misfeed detection	1-3-1
	(1) Paper misfeed indication	
	(2) Paper misfeed detection condition	
	(3) Paper misfeeds	1-3-3
	1-3-2 Self-diagnosis	1-3-4
	(1) Self-diagnostic function	
	(2) Self-diagnostic codes	
	1-3-3 Electrical problems	
	<ul> <li>(1) The paper conveying motor does not operate.</li> <li>(2) The for data is a set on east of a set of</li></ul>	
	<ul> <li>(2) The feedshift solenoid does not operate.</li> <li>(2) The right approximation operate.</li> </ul>	
	<ul><li>(3) The pickup solenoid does not operate.</li><li>(4) The front side registration motor does not operate.</li></ul>	
	(4) The rear side registration motor does not operate.	
	(6) The trailing edge registration motor does not operate.	
	(7) The cooling fan motor does not operate.	
	1-3-4 Mechanical problems	
	(1) Paper jams	
	(2) Abnormal noise is heard	
1-4	Assembly and Disassembly	
	1-4-1 Precautions for assembly and disassembly	
	(1) Precautions	1-4-1
	(2) Adjusting the positions of the front side registration cursor, rear side registration cursor	1 4 0
	and trailing edge registration cursor (reference)	
	(4) Adjusting the pressure of curl eliminator mechanism	
	() -,	
2-1	Mechanical construction	
	2-1-1 Construction of each section	
	(1) Paper conveying operation in sort mode	
	2-1-2 Intermediate tray section	
	(1) Paper registration on the intermediate tray	
	2-1-3 Stapler section	2-1-5
2-2	Electrical Parts Layout	
	2-2-1 Electrical parts layout	001
	(1) Paper conveying section	
	(2) Intermediate tray section	
	(3) Stapler section	
		-
2-3	Operation of the PCBs	
	2-3-1 Main PCB	2-3-1
o ∧	Appondixos	
∠-4	Appendixes	0.4.4
	Timing chart No. 1	
	Timing chart No. 2	
	Timing chart No. 3	
	Periodic maintenance procedure	
	Wiring diagram	. 2-4-5

# 1-1-1 Specifications

Туре	Built-in
Number of trays	. 1 (intermediate tray)
Stapling limit	$ A4/11" \times 8^{1}/_{2}"$ or smaller: 30 sheets
	Other sizes than above: 20 sheets
Power source	. Electrically connected to the copier
Weight	. Approximately 11 kg/24.2 lbs

3B5

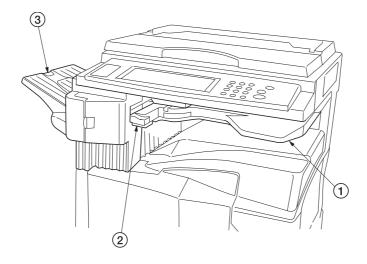
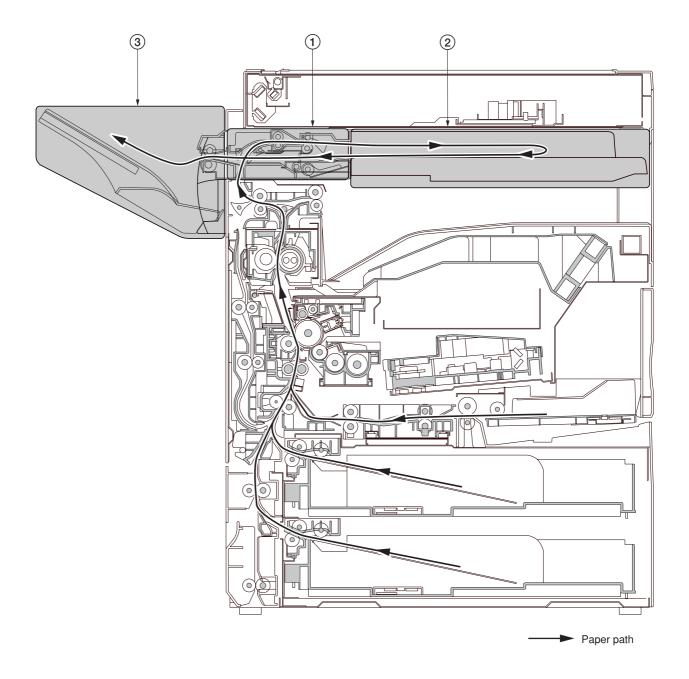


Figure 1-1-1







- Paper conveying section
   Intermediate tray section
   Eject section

## 1-1-4 Drive system

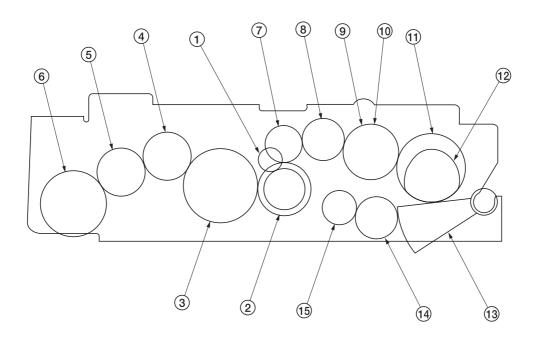
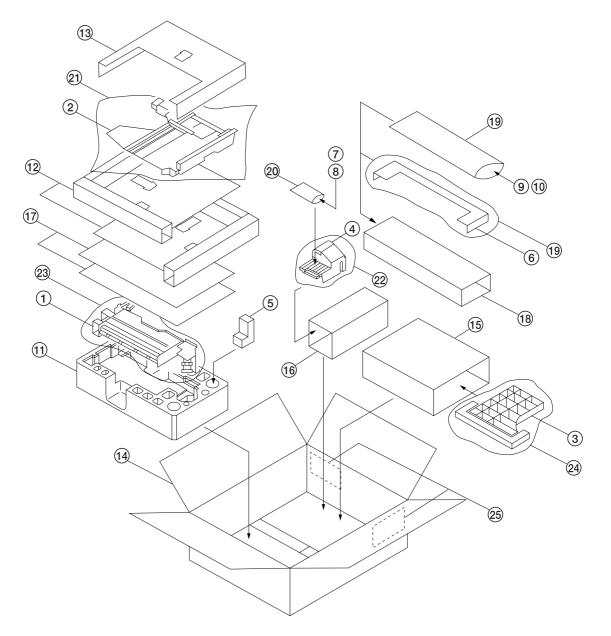


Figure 1-1-3

Paper conveying motor gear
 Gear 31/20
 Gear 28
 Gear 18
 Gear 18
 Gear 25
 Gear 14
 Gear 16

- (9) Central gear(10) Gear 21
- (1) Gear 26
- (12) Clutch cam
- (i) Stopper gear(i) Gear 32
- 15 Gear 26





- Paper conveying unit
   Intermediate tray unit
- 3 Eject tray
- (4) Stapler cover
- 5 Staple cartridge
- (6) Large eject cover
  (7) Cross-head chrome TP-A screws M3 × 05
- $(\overline{8})$  Cross-head bronze binding TP-A screws M3  $\times$  05
- (9) Front eject cover
- (10) Rear eject cover
- (1) Paper conveying unit pad
- (12) Upper intermediate tray pad
- (i) Lower intermediate tray pad

- (1) Outer case
- (15) Spacer 1
- 16 Spacer 2
- (17) Spacer 3
- (18) Spacer 4
- (19) Plastic bag
- 20 Plastic bag
- (21) Plastic sheet
- 2 Plastic bag
- 23 Plastic bag
- (24) Air-padded bag
- 25 Bar-code labels

# 1-3-1 Paper misfeed detection

#### (1) Paper misfeed indication

When paper jams, the machine immediately stops operation and the occurrence of a paper jam is indicated on the copier operation panel.

To remove the jammed paper, lower the intermediate tray.

To reset the paper misfeed detection, detach and refit the intermediate tray to turn the tray open/close switch off and on.

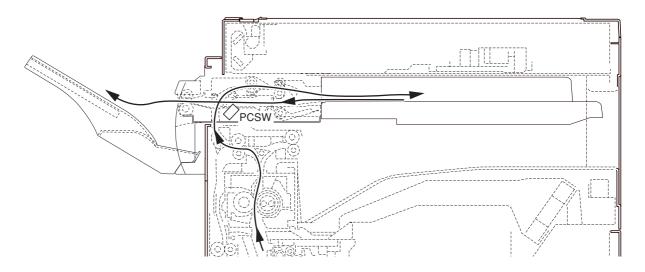
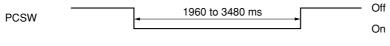


Figure 1-3-1 Paper misfeed detection

#### (2) Paper misfeed detection condition

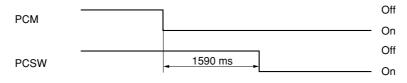
- Jam between the finisher and copier (jam code 81) The paper conveying switch does not turn on within 1550 ms of the signal requesting paper ejection is output from the copier.
- Intake jam (jam code 82)

During paper intake from the copier, the paper conveying switch (PCSW) does not turn off within 1960 to 3480 ms (depending on paper size) of paper conveying switch (PCSW) turning on.





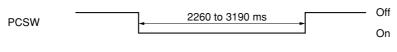
Jam during paper conveying for batch ejection 1 (jam code 83)
 When ejection a stack of paper, the paper conveying switch (PCSW) does not turn on within 1590 ms of the paper conveying motor (PCM) turning on.



#### Timing chart 1-3-2

• Jam during paper conveying for batch ejection 2 (jam code 84) When ejection a stack of paper, the paper conveying switch (PCSW) does not turn off within 2260 to 3190 ms (depending

on the paper size) of the paper conveying motor (PCM) turning on.





#### 3B5

Problem	Causes	Check procedures/corrective measures
(1) Paper jams in the finisher when the main switch is turned	A piece of paper torn from copy paper is caught around the paper conveying switch.	Remove any found.
on.	Defective paper conveying switch.	With 5 V DC present at CN4-9 on the main PCB, check if CN4-10 on the main PCB remains low when the paper conveying switch is turned on and off. If it does, replace the paper conveying switch.
(2) Paper jams in the finisher during copying (intake jam).	Defective paper conveying switch.	With 5 V DC present at CN4-9 on the main PCB, check if CN4-10 on the main PCB remains high or low when the paper conveying switch is turned on and off. If it does, replace the paper conveying switch.
Jam code 82	Check if the feedshift roller or feedshift pulley is deformed.	Check visually and replace the pulley or roller if deformed.
(3) Paper jams in the finisher during copying (jam during	Defective paper conveying switch.	With 5 V DC present at CN4-9 on the main PCB, check if CN4-10 on the main PCB remains high or low when the paper conveying switch is turned on and off. If it does, replace the paper conveying switch.
paper conveying for batch ejection 1). Jam code 83	Check if the feedshift roller or press roller is deformed.	Check visually and replace the pulley or roller if deformed.
(4) Paper jams in the finisher during copying (jam during paper conveying for	Defective paper conveying switch.	With 5 V DC present at CN4-9 on the main PCB, check if CN4-10 on the main PCB remains high or low when the paper conveying switch is turned on and off. If it does, replace the paper conveying switch.
batch ejection 2). Jam code 84	Check if the eject roller or eject pulley is deformed.	Check visually and replace the pulley or roller if deformed.

## 1-3-2 Self-diagnosis

#### (1) Self-diagnostic function

This unit is equipped with a self-diagnostic function. When a problem is detected, copying is disabled and the problem displayed as a code consisting of "C" followed by a number between 0440 and 8220, indicating the nature of the problem. A message is also displayed requesting the user to call for service.

After removing the problem, the self-diagnostic function can be reset by turning the tray open/close switch or copier safety switch 1 or 2 off and back on.

#### (2) Self-diagnostic codes

Cada	Contente	Remarks	
Code	Contents	Causes	Check procedure/corrective measures
C0440	<b>Finisher communication problem</b> An error code from the side deck is detected eight times in succession. No communication: there is no reply after 3 retries.	Poor contact in the connector terminals.	Check the connection of connectors CN4, CN5 on the copier main PCB and CN2 on the finisher main PCB, and the continuity across the connector terminals. Repair or replace if necessary.
	Abnormal communication: a communication error (parity or checksum error) is detected five times in	Defective copier main PCB.	Replace the copier main PCB and check for correct operation.
	succession.	Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8170	Finisher front side registration motor problem If the front side registration home position sensor is on in initialization, the sensor does not turn off within 570 ms of starting initialization. If the front side registration home position sensor is off in initialization, the sensor does not turn on within 3180 ms of starting initialization.	The front side registration motor connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The front side registration motor malfunctions.	Replace the front side registration motor and check for correct operation.
		The front side registration home position sensor connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The front side registration home position sensor malfunctions.	Replace the front side registration home position sensor and check for correct operation.
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8180	<b>problem</b> If the rear side registration home position sensor is on in initialization, the sensor does not turn off within 570 ms of starting initialization. If the rear side registration home position sensor is off in initialization, the sensor does not turn on within 2880 ms of starting initialization.	The rear side registration motor connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The rear side registration motor malfunctions.	Replace the rear side registration motor and check for correct operation.
		The rear side registration home position sensor connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The rear side registration home position sensor malfunctions.	Replace the rear side registration home position sensor and check for correct operation.

Code	Contonta	Remarks	
	Contents	Causes	Check procedure/corrective measures
C8180	<b>Finisher rear side registration motor</b> <b>problem</b> If the rear side registration home position sensor is on in initialization, the sensor does not turn off within 570 ms of starting initialization. If the rear side registration home position sensor is off in initialization, the sensor does not turn on within 2880 ms of starting initialization.	Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8190	Finisher trailing edge registration motor problem If the trailing edge registration home position sensor is on in initialization, the sensor does not turn off within 570 ms of starting initialization. If the trailing edge registration home position sensor is off in initialization, the sensor does not turn on within 4550 ms of starting initialization.	The trailing edge registration motor connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The trailing edge registration motor malfunctions.	Replace the trailing edge registration motor and check for correct operation.
		The trailing edge registration home position sensor connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The trailing edge registration home position sensor malfunctions.	Replace the trailing edge registration home position sensor and check for correct operation.
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.
C8210	<b>Finisher front stapler problem</b> The front stapler home position sensor does not change state from non- detection to detection within 200 ms of the start of front stapler motor counterclockwise (forward) rotation. During initialization, the front stapler home position sensor does not change state from non-detection to detection within 600 ms of the start of front stapler motor clockwise (reverse) rotation.	The front stapler connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The front stapler malfunctions. a) The front stapler is blocked with a staple. b) The front stapler is broken.	<ul><li>a) Remove the front stapler cartridge, and check the cartridge and the stapling section of the stapler.</li><li>b) Replace the front stapler and check for correct operation.</li></ul>
		Defective finisher main PCB.	Replace the finisher main PCB and check for correct operation.

Code	Contents	Remarks	
		Causes	Check procedure/corrective measures
C8220	The rear stapler home position sensor does not change state from non- detection to detection within 200 ms of the start of rear stapler motor counterclockwise (forward) rotation. During initialization, the rear stapler home position sensor does not change state from non-detection to detection within 600 ms of the start of rear stapler	The rear stapler connector makes poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		The rear stapler malfunctions. a) The rear stapler is blocked with a staple. b) The rear stapler is broken.	<ul> <li>a) Remove the front stapler cartridge, and check the cartridge and the stapling section of the stapler.</li> <li>b) Replace the front stapler and check for correct operation.</li> </ul>
	motor clockwise (reverse) rotation.	Defective finisher main PCB.	correct operation. Replace the finisher main PCB and check for correct operation.

Problem	Causes	Check procedures/corrective measures	
(1) The paper conveying	Broken paper conveying motor coil.	Check for continuity across the coil. If none, replace the paper conveying motor.	
motor does not operate.	Poor contact of the paper conveying motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.	
	Defective finisher main PCB.	Check if a motor drive coil energization signal is output at CN9-9, CN9-10, CN9-11 and CN9-12 on the finisher main PCB. If not, replace the finisher main PCB.	
(2) The feedshift	Broken feedshift solenoid coil.	Check for continuity across the coil. If none, replace the feedshift solenoid.	
solenoid does not operate.	Poor contact of the feedshift solenoid connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.	
	Defective finisher main PCB.	Check if CN4-2 and CN4-4 on the finisher main PCB go low. If not, replace the finisher main PCB.	
(3) The pickup solenoid	Broken pickup solenoid coil.	Check for continuity across the coil. If none, replace the pickup solenoid.	
does not operate.	Poor contact of the pickup solenoid connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.	
	Defective finisher main PCB.	Check if CN4-7 on the finisher main PCB goes low. If not, replace the finisher main PCB.	
(4) The front side	Broken front side registration motor coil.	Check for continuity across the coil. If none, replace the front side registration motor.	
registration motor does not operate.	Poor contact of the front side registration motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.	
	Defective finisher main PCB.	Check if a motor drive coil energization signal is output at CN5-1, CN5-3, CN5-4 and CN5-5 on the finisher main PCB. If not, replace the finisher main PCB.	
(5) The rear side	Broken rear side registration motor coil.	Check for continuity across the coil. If none, replace the rear side registration motor.	
registration motor does not operate.	Poor contact of the rear side registration motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.	
	Defective finisher main PCB.	Check if a motor drive coil energization signal is output at CN5-6, CN5-8, CN5-9 and CN5-10 on the finisher main PCB. If not, replace the finisher main PCB.	
(6) The trailing edge	Broken trailing edge registration motor coil.	Check for continuity across the coil. If none, replace the trailing edge registration motor.	
registration motor does not operate.	Poor contact of the trailing edge registration motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.	
	Defective finisher main PCB.	Check if a motor drive coil energization signal is output at CN6-1, CN6-2, CN6-3 and CN6-4 on the finisher main PCB. If not, replace the finisher main PCB.	

Problem	Causes	Check procedures/corrective measures
(7) The cooling fan	Broken cooling fan motor coil.	Check for continuity across the coil. If none, replace the cooling fan motor.
motor does not operate.	Poor contact of the cooling fan motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	Defective finisher main PCB.	Check if CN4-6 on the finisher main PCB goes low. If not, replace the finisher main PCB.

#### 1-3-4 Mechanical problems

Problem	Causes/check procedures	Corrective measures
(1) Paper jams.	Check if the contact between the feedshift roller and feedshift pulley is correct.	Check and remedy.
	Check if the contact between the feedshift roller and press roller is correct.	Check and remedy.
	Check if the contact between the eject roller and eject pulley is correct.	Check and remedy.
(2) Abnormal noise is heard.	Check if the contact between the eject roller and eject pulley is correct. Check if the rollers and gears operate smoothly.	Check and remedy. Grease the bushings and gears.

#### 1-4-1 Precautions for assembly and disassembly

#### (1) Precautions

- Be sure to turn the main switch off and disconnect the power plug before starting disassembly.
- When handling PCBs, do not touch connectors with bare hands or damage the board.
- Do not touch any PCB containing ICs with bare hands or any object prone to static charge.
- Use the following testers when measuring voltages:

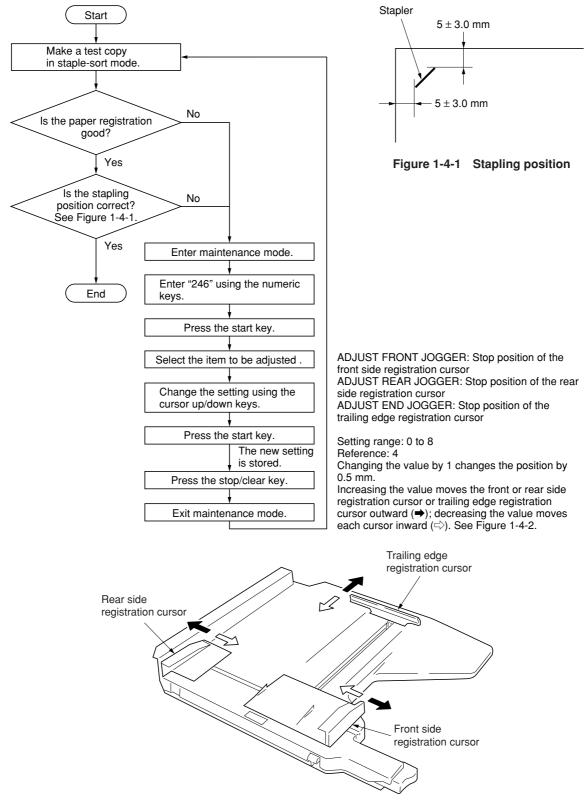
Hioki 3200 Sanwa MD-180C Sanwa YX-360TR Beckman TECH300 Beckman DM45 Beckman 330\* Beckman 3030\* Beckman DM850\* Fluke 8060A\* Arlec DMM1050 Arlec YF1030C

- \* Capable of measuring RMS values.• Prepare the following as test originals:
- 1. NTC (new test chart)
- 2. NPTC (newspaper test chart)

### (2) Adjusting the positions of the front side registration cursor, rear side registration cursor and trailing edge registration cursor (reference)

Perform the following adjustment if paper registration is poor or stapling is made outside the specified area.

#### Procedure



#### (3) Cleaning the stapler

During periodic maintenance, remove all the staples remaining inside the machine due to failure of stapling.

#### Procedure

- 1. Open the front and conveying covers of the copier.
- 2. Remove the staple cartridge.
- 3. Remove the four screws securing the stapler cover and then the cover.
- 4. Remove the staples attracted to the magnet on the inside of the stapler cover.
- 5. Refit all the removed parts.

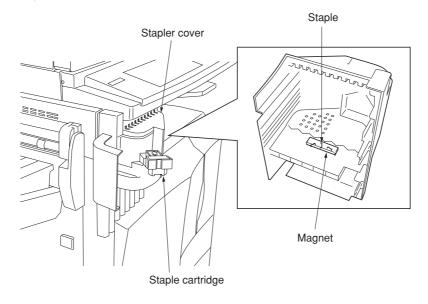


Figure 1-4-3

3B5

#### (4) Adjusting the pressure of curl eliminator mechanism

Increase the pressure of the curl eliminator mechanism to reduce upward curling of paper stacked on the intermediate tray if a paper jam occurs when batch ejection is performed because of strong upward curling.

#### Procedure

- 1. Remove the paper conveying unit from the copier.
- 2. Loosen the two screws from the front and rear curl eliminator pressure adjusting plates respectively and then remove the plates.
- 3. Refit the all removed parts.

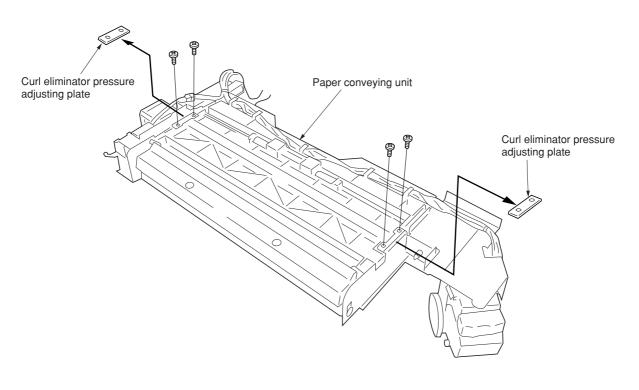


Figure 1-4-4

#### 2-1-1 Construction of each section

The paper conveying section consists of the components shown in Figure 2-1-1. It switches the path for the paper conveyed from the copier in sort mode. Also the paper conveying section contains a curl eliminator mechanism, which reduces curling of paper with curl eliminator rollers.

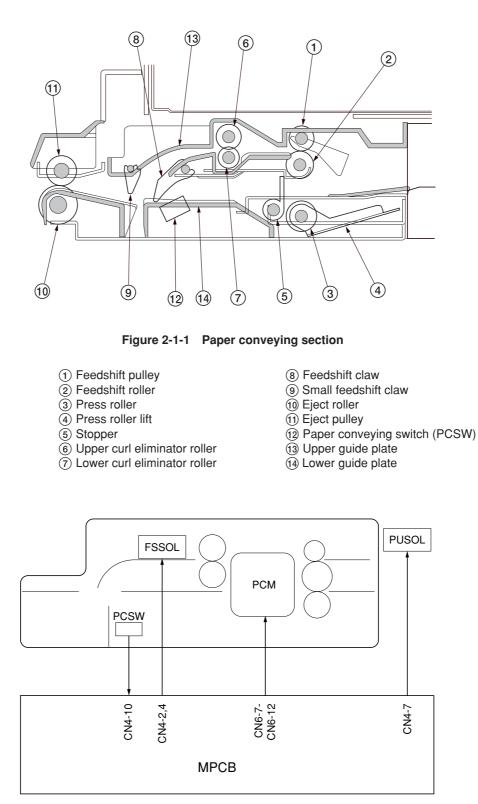


Figure 2-1-2 Paper conveying section block diagram

#### (1) Paper conveying operation in sort mode

When a copy is made in the sort mode, the feedshift solenoid (FSSOL) turns on and the feedshift guide of the copier operates to switch the paper path to the paper conveying unit. After curling of the conveyed paper is eliminated by the curl eliminator rollers, the paper is conveyed to the intermediate tray by the feedshift roller. When the trailing edge registration cursor of the intermediate tray shifts the paper stocked in the intermediate tray to the stopper, the pickup solenoid (PUSOL) turns on to lift the press roller and release the stopper. The stack of paper on the intermediate tray is ejected to the eject tray by the feedshift roller and eject roller.

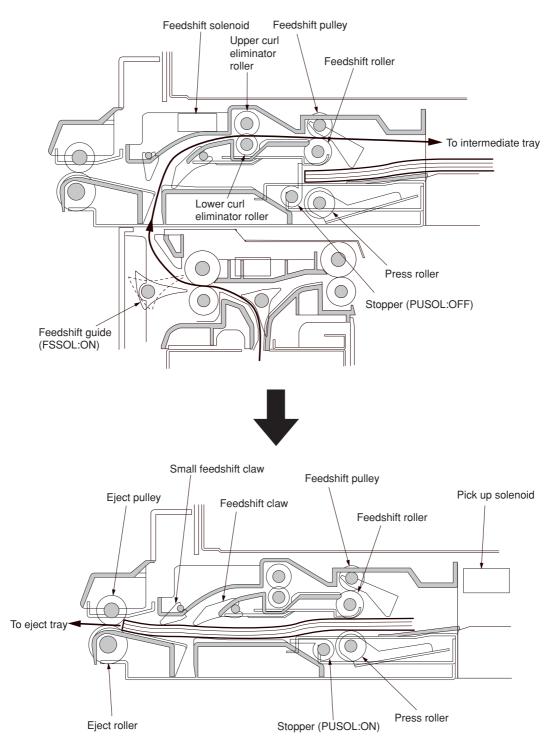


Figure 2-1-3

#### 2-1-2 Intermediate tray section

The intermediate tray section consists of the components shown in Figure 2-1-4. It stores and evens up the paper conveyed from the paper conveying section and returns the stack of paper to the paper conveying section.

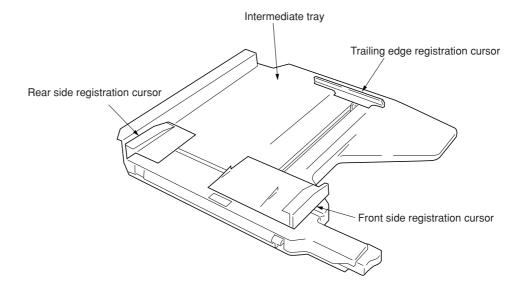


Figure 2-1-4 Intermediate tray section

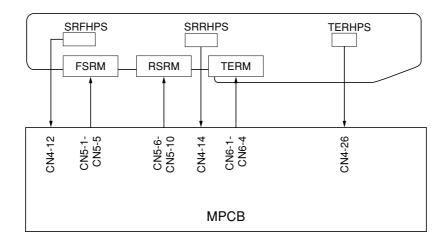


Figure 2-1-5 Intermediate tray section block diagram

#### (1) Paper registration on the intermediate tray

In sort mode, the front and rear side registration cursors move to the size of the paper used to even up the sides of the stack of paper and the trailing edge registration cursor shifts the paper to the paper conveying section.

In staple-sort mode, the front and rear side registration cursors even up the sides of the stack of paper and shift the stack toward the machine front, and then the trailing edge registration cursor shifts the stack to the stapling position.

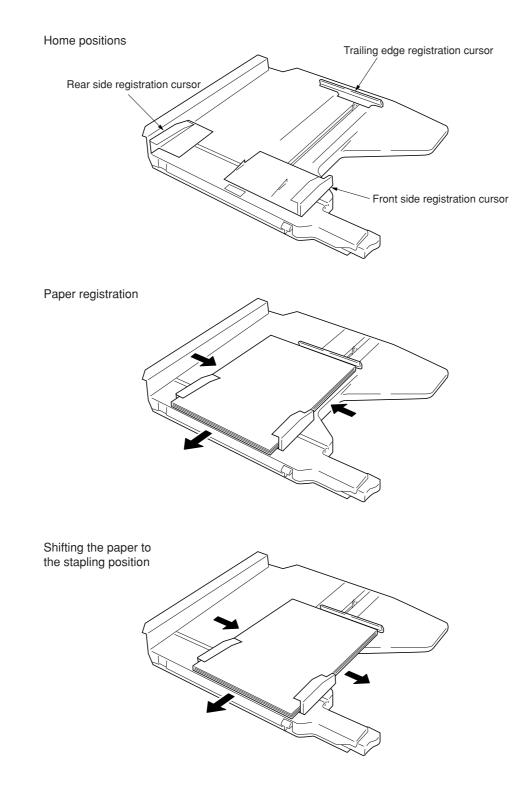
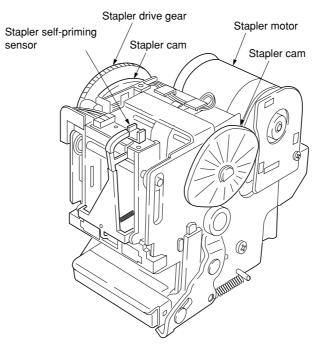


Figure 2-1-6

#### 2-1-3 Stapler section



In staple-sort mode, paper stocked on the intermediate tray is stapled by the stapler. The stapler motor (STM) drives the stapler cam via the stapler drive gear to staple paper.

Figure 2-1-7 Stapler section

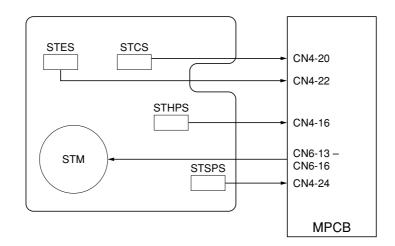
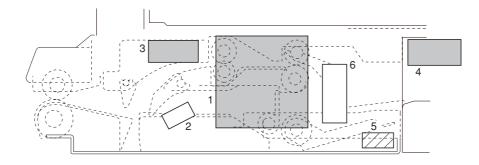


Figure 2-1-8 Stapler section block diagram

#### 2-2-1 Electrical parts layout

#### (1) Paper conveying section

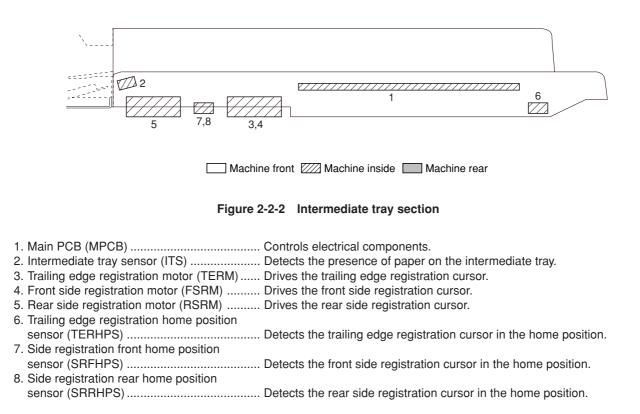


Machine front Z Machine inside Machine rear

Figure 2-2-1 Paper conveying section

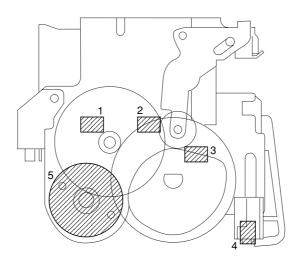
- 1. Paper conveying motor (PCM) ..... Drives the paper conveying section.
- 2. Paper conveying switch (PCSW) ..... Detects a paper jam in the finisher.
- 3. Feedshift solenoid (FSSOL) ..... Operates the feedshift guide of the copier.
- 4. Pickup solenoid (PUSOL) ..... Operates the press roller.
- 5. Tray open/close switch (TOCSW) ...... Detects if the intermediate tray is opened or closed.
- 6. Cooling fan motor (CFM) ...... Cools the stapler section.

#### (2) Intermediate tray section



3B5

#### (3) Stapler section

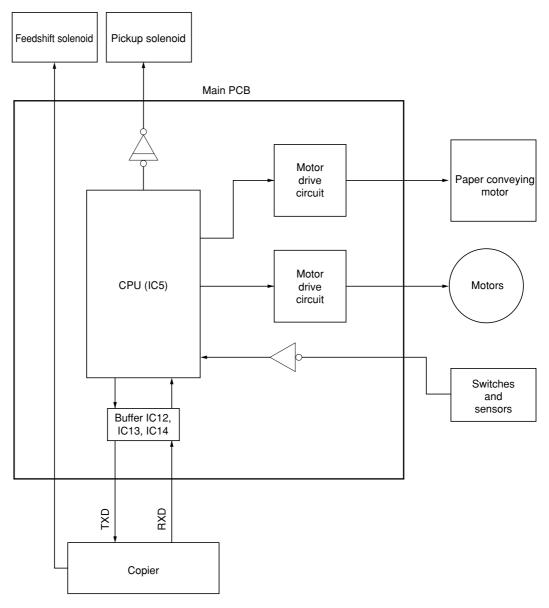


Machine front Z Machine inside Machine rear

#### Figure 2-2-3 Stapler section

- 1. Stapler empty sensor (STES) ..... Detects the presence of staples.
- 2. Staple cartridge sensor (STCS) ..... Detects the presence of the staple cartridge.
- 3. Stapler home position sensor (STHPS) ...... Detects the stapler in the home position.
- 4. Stapler self-priming sensor (STSPS) ..... Detects the pre-stapling state of the stapler.
- 5. Stapler motor (STM) ..... Drives the stapler.

#### 2-3-1 Main PCB





The main PCB (MPCB) consists mainly of the CPU IC5 and motor drive circuit.

The CPU IC5 detects the condition of the switches and sensors and controls the motors and solenoids by serially communicating with the copier. The feedshift solenoid (FSSOL) operates with the control signals from the copier.

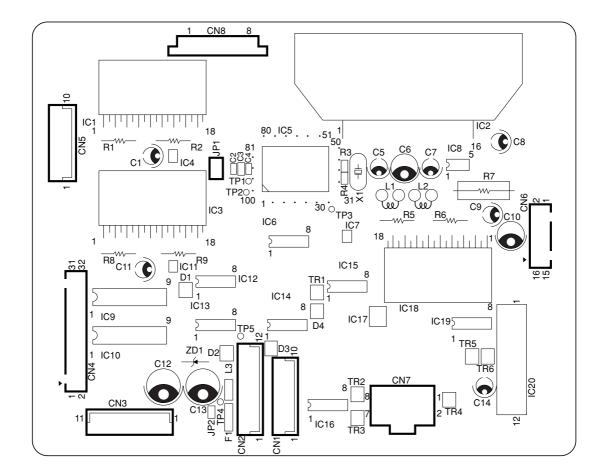


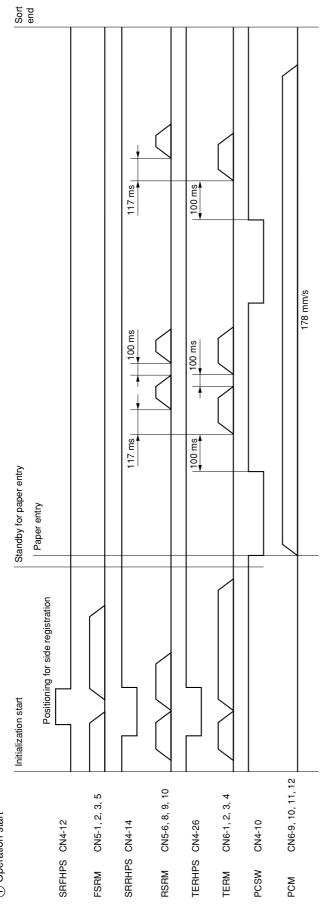
Figure 2-3-2 Main PCB silk-screen diagram

Terminals (CN) Vo		Voltage	Remarks	
2-1	2-3	0/5 V DC	RESET signal, input	
2-2	2-3	0/5 V DC	Finisher SET signal, input	
2-4	2-5	0/5 V DC (pulse)	Serial signal TXD, input	
2-6	2-7	0/5 V DC (pulse)	Serial signal RXD, output	
2-8	2-7	5 V DC	5 V DC supply, input	
2-11	2-9	24 V DC	24 V DC supply, input	
2-12	2-10	24 V DC	24 V DC supply, input	
3-7	3-4	0/24 V DC	FSSOL release signal, input	
3-8	3-4	0/24 V DC	FSSOL latch-on signal, input	
3-9	3-4	24 V DC	24 V DC supply for FSSOL, input	
4-1	4-29	24 V DC	24 V DC supply for FSSOL, output	
4-2	4-29	0/24 V DC	FSSOL latch-on signal, output	
4-3	4-29	24 V DC	24 V DC supply for CFM, output	
4-4	4-29	0/24 V DC	FSSOL release signal, output	
4-5	4-29	24 V DC	24 V DC supply for PUSOL, output	
4-6	4-29	0/24 V DC	CFM on/off signal, output	
4-7	4-29	0/24 V DC	PUSOL on/off, output	
4-9	4-29	5 V DC	5 V DC supply for PCSW, output	
4-10	4-29	0/5 V DC	PCSW on/off, input	
4-11	4-23	5 V DC	5 V DC supply for SRFHPS, output	
4-12	4-23	0/5 V DC	SRFHPS on/off, input	
4-13	4-25	5 V DC	5 V DC supply for SRRHPS, output	
4-14	4-25	0/5 V DC	SRRHPS on/off, input	
4-15	4-27	5 V DC	5 V DC supply for stapler, output	
4-16	4-27	0/5 V DC	STHPS on/off, input	
4-17	4-21	5 V DC	5 V DC supply for ITS, output	
4-18	4-21	0/5 V DC	ITS on/off, input	
4-19	4-28	5 V DC	5 V DC supply for TERHPS, output	
4-20	4-27	0/5 V DC	STCS on/off, input	
4-22	4-27	0/5 V DC	STES on/off, input	
4-24	4-27	0/5 V DC	STSPS on/off, input	
4-26	4-28	0/5 V DC	TERHPS on/off, input	
5-1	2-9	0/24 V DC (pulse)	FSRM motor coil energization pulse, output (A)	
5-2	2-9	24 V DC	24 V DC supply for FSRM, output	
5-3	2-9	0/24 V DC (pulse)	FSRM motor coil energization pulse, output (B)	
5-4	2-9 2-9	0/24 V DC (pulse)	FSRM motor coil energization pulse, output (B)	
5-5 5-6	2-9	0/24 V DC (pulse) 0/24 V DC (pulse)	FSRM motor coil energization pulse, output (A) RSRM motor coil energization pulse, output (A)	
5-7	2-9	24 V DC (pulse)	24 V DC supply for RSRM, output	
5-8	2-9	0/24 V DC (pulse)	RSRM motor coil energization pulse, output $(\overline{B})$	
5-9	2-9	0/24 V DC (pulse)	RSRM motor coil energization pulse, output (B)	
5-10	2-9	0/24 V DC (pulse)	RSRM motor coil energization pulse, output $(\overline{A})$	
6-1	2-9	0/24 V DC (pulse)	TERM motor coil energization pulse, output (A)	
6-2	2-9	0/24 V DC (pulse)	TERM motor coil energization pulse, output $(\overline{B})$	
6-3	2-9	0/24 V DC (pulse)	TERM motor coil energization pulse, output (B)	
6-4	2-9	0/24 V DC (pulse)	TERM motor coil energization pulse, output $(\overline{A})$	
6-5	2-9	24 V DC	24 V DC supply for TERM, output	
6-7	2-9	24 V DC	24 V DC supply for PCM, output	
6-8	2-9	24 V DC	24 V DC supply for PCM, output	
6-9	2-9	0/24 V DC (pulse)	PCM motor coil energization pulse, output (A)	
6-10	2-9	0/24 V DC (pulse)	PCM motor coil energization pulse, output $(\overline{A})$	
6-11	2-9	0/24 V DC (pulse)	PCM motor coil energization pulse, output (B)	
6-12	2-9	0/24 V DC (pulse)	PCM motor coil energization pulse, output $(\overline{B})$	
6-13	2-9	0/24 V DC	STM forward rotation drive signal (F), output	
6-14	2-9	0/24 V DC	STM forward rotation drive signal (F), output	
6-15	2-9	0/24 V DC	STM reverse rotation drive signal (R), output	
6-16	2-9	0/24 V DC	STM reverse rotation drive signal (R), output	
	-	-		

Termina	als (CN)	Voltage	Remarks	
7-3	2-9	24 V DC	24 V DC supply for LCSW, output	
7-6	2-9	24/0 V DC	LCSW on/off, input	
L		1		

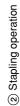
Timing chart No. 1

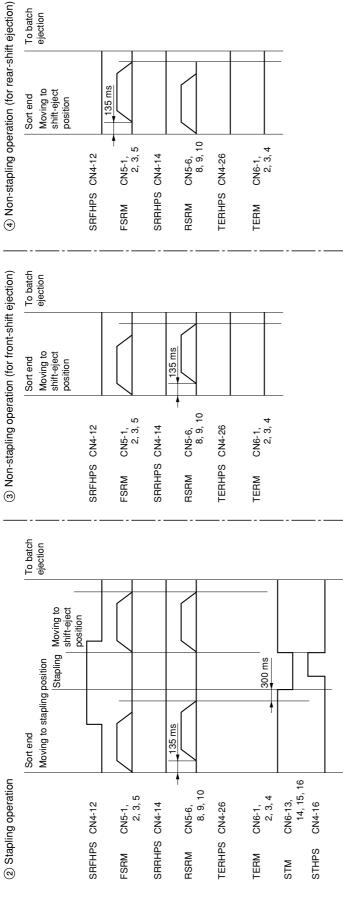
Operation start





2-4-2

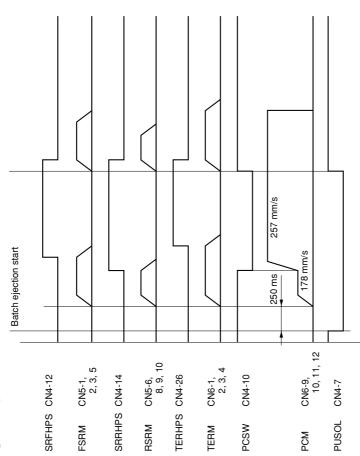




To batch ejection

# Timing chart No. 3

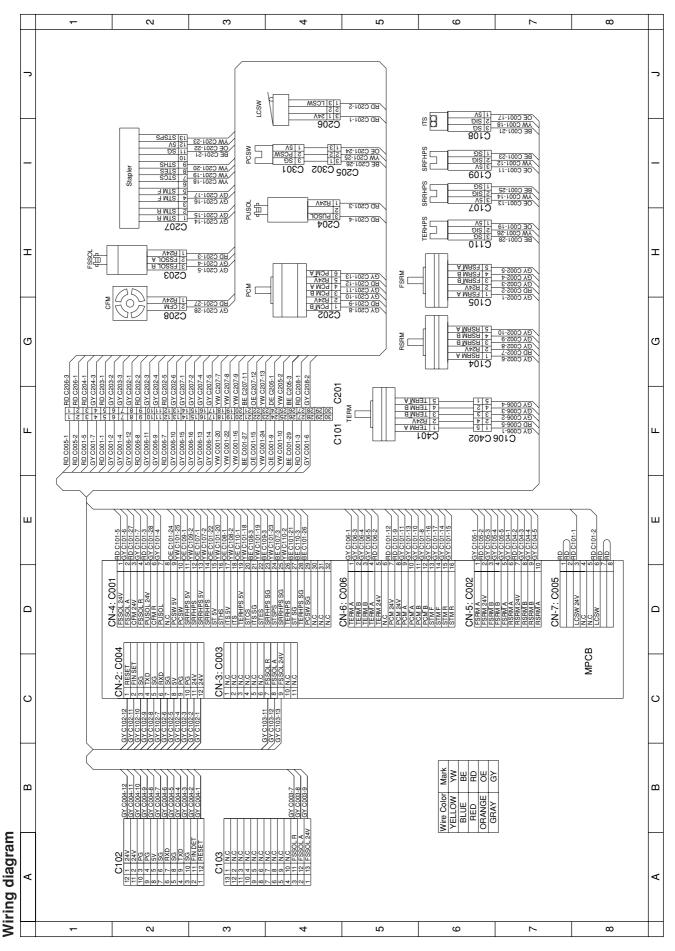
## Batch ejection



#### Periodic maintenance procedures

Finisher

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Stapler section	Magnet	Clean	Every service	Remove the staples attracted to the magnet inside the stapler cover.	1-4-3



### **J-1402**

#### CONTENTS

1-1	Specifications	
	1-1-1 Specifications	1-1-1
	1-1-2 Part names	
	1-1-3 Machine cross section	1-1-3
	1-1-4 Drive system	1-1-4
1-2	Installation	
	1-2-1 Unpacking	1-2-1
1-3	Troubleshooting	
	1-3-1 Paper misfeed detection	1-3-1
	(1) Paper misfeed indication	
	(2) Paper misfeed detection condition	1-3-2
	(3) Paper misfeeds	
	1-3-2 Electrical problems	
	(1) The feedshift solenoid does not operate.	
	1-3-3 Mechanical problems	1-3-5
	(1) Paper jams	
	(2) Abnormal noise is heard	1-3-5
2-1	Mechanical construction	
	2-1-1 Construction of each section	2-1-1
	(1) Switching the paper path	2-1-2
2-2	Electrical Parts Layout	
	2-2-1 Electrical parts layout	2-2-1
2-3	Appendixes	
	Periodic maintenance procedures	2-3-1

#### 1-1-1 Specifications

Туре	. Enclosed
Tray capacity	. 100 sheets of 45 – 160 g/m <sup>2</sup> paper
Paper	. Plain paper: 75 – 80 g/m <sup>2</sup>
	Special paper: colored paper
Paper sizes	. A3 – A5R, folio/11" × 17" – 5 <sup>1</sup> /2" × 8 <sup>1</sup> /2"
Power source	. Electrically connected to the copier
Weight	. Approximately 1.0 kg/2.21 lbs

#### 1-1-2 Part names

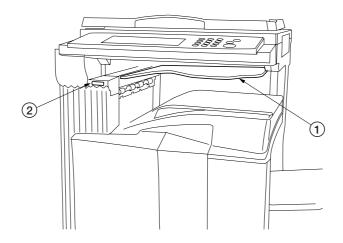


Figure 1-1-1

Job separator tray
 LED

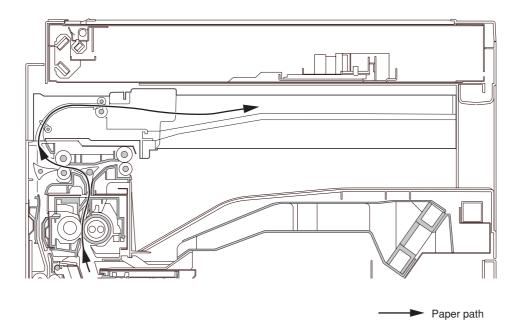
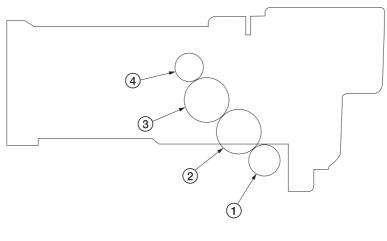


Figure 1-1-2

3B6





- Gear 20
   Gear 28
   Gear 28
   Gear 28
   Eject roller gear

1-1-4

#### 1-2-1 Unpacking

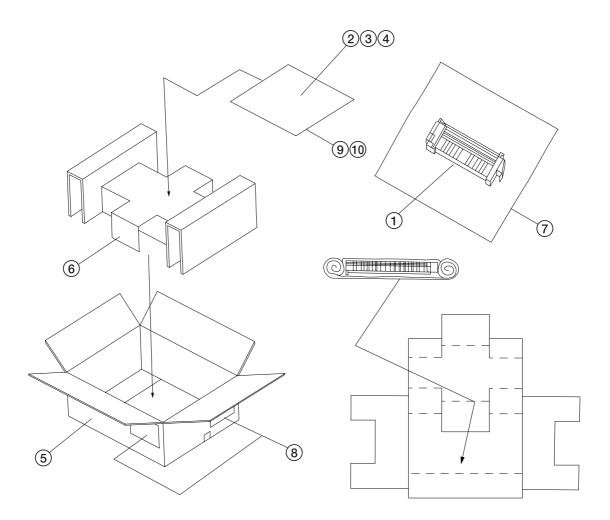


Figure 1-2-1 Unpacking

- 1 Job separator
- Job separator tray
  Pin
- (4) Cross-head bronze binding screws  $\mathsf{BMV3}\times\mathsf{05}$
- (5) Outer case
- 6 Spacer
- $\check{(7)}$  Air-padded bag
- (8) Bar-code labels
- 9 Plastic bag
- 10 Plastic bag

#### 1-3-1 Paper misfeed detection

#### (1) Paper misfeed indication

When paper jams, the machine immediately stops operation and the occurrence of a paper jam is indicated on the copier operation panel.

To remove the jammed paper, open the copier conveying cover.

To reset the paper misfeed detection, open and close the copier conveying cover to turn safety switch 2 off and on.

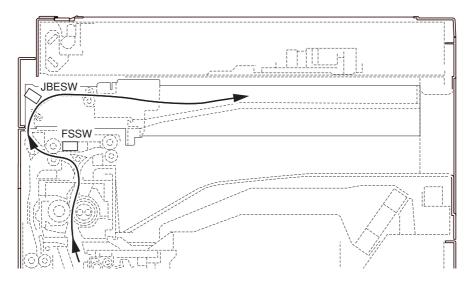
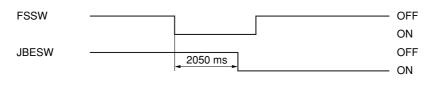


Figure 1-3-1 Paper misfeed detection

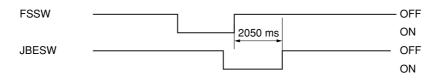
#### (2) Paper misfeed detection condition

• Misfeed in job separator eject section (jam code 51) The job separator eject switch (JBESW) does not turn on within 2050 ms of the feedshift switch (FSSW) turning on.



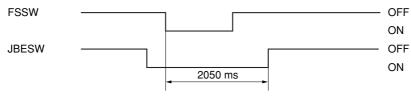


The job separator eject switch (JBESW) does not turn off within 2050 ms of the feedshift switch (FSSW) turning off.



#### Timing chart 1-5-2

The job separator eject switch (JBESW) does not turn off within 2050 ms of the feedshift switch (FSSW) turning on.



Timing chart 1-5-3

Problem	Causes/check procedures	Corrective measures
(1) Paper jams when the main switch is turned on.	A piece of paper torn from copy paper is caught around the job separator eject switch.	Remove any found.
	Defective job separator eject switch.	Run maintenance item U031 and turn the job separator eject switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
(2) Paper jams in the job separator during copying (jam in job	Defective job separator eject switch.	Run maintenance item U031 and turn the job separator eject switch on and off manually. Replace the switch if indication of the corresponding switch on the operation panel is not displayed in reverse.
separator eject section).	Check if the job eject pulley or job eject roller is deformed.	Check visually and replace the pulley if deformed.

#### 1-3-2 Electrical problems

Problem	Causes	Check procedures/corrective measures
(1) The feedshift	Broken feedshift solenoid coil.	Check for continuity across the coil. If none, replace the feedshift solenoid.
solenoid does not operate.	Poor contact of the feedshift solenoid connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
operate.	feedshift solenoid	Run maintenance item U033 and check if CN35-11 and CN35-12 on the copier main PCB go low. If not, replace the main PCB.

#### 1-3-3 Mechanical problems

Problem	Causes/check procedures	Corrective measures	
(1) Paper jams.	Check if the contact between the job eject pulley and job eject roller is correct.	Check and remedy.	
(1)	Check if the contact between the job eject		

The job separator consists of the components shown in Figure 2-1-1. It switches the paper path to eject copied paper to the job separator tray.

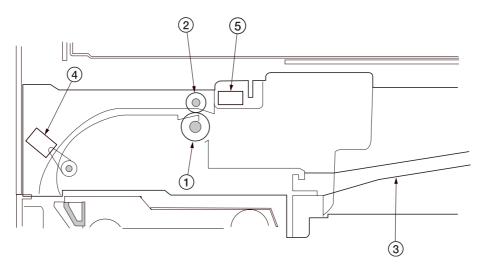


Figure 2-1-1 Job separator

- (1) Job eject roller
- 2) Job eject pulley
  3) Job separator tray
- $\overbrace{4}^{\smile}$  Job separator eject switch (JBESW)
- 5 Ejected paper detection switch (EPDSW)

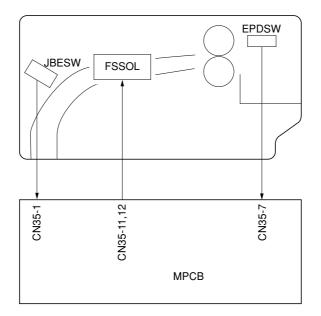


Figure 2-1-2 Job separator block diagram

(1) Switching the paper path If the job separator is selected for the copy eject location, when a copy is made, the feedshift solenoid (FSSOL) turns on and the feedshift guide of the copier operates to switch the paper path to the job separator. The copied paper is conveyed to the job separator and then ejected to the job separator tray.

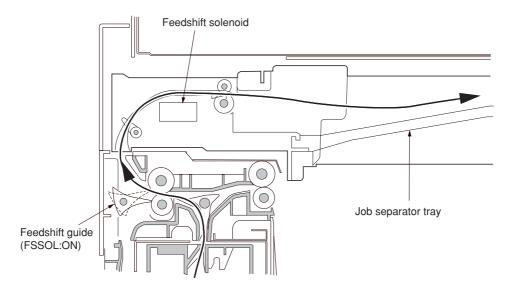


Figure 2-1-3

#### 2-2-1 Electrical parts layout

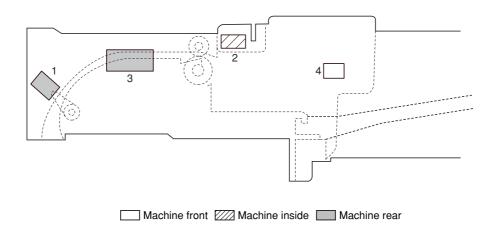


Figure 2-2-1

- 1. Job separator eject switch (JBESW) ...... Detects a paper jam in the job separator.
- 2. Ejected paper detection switch (EPDSW) ... Detects the presence of paper on the job separator tray.
- 3. Feedshift solenoid (FSSOL) ..... Operates the feedshift guide of the copier.
- 4. LED ..... Indicates the presence of paper on the job separator tray.

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Paper conveying section	Job eject roller	Clean	Every service	Clean with alcohol or a dry cloth.	

# **PF-70**

## CONTENTS

1-1	Spee	cifications	
	1-1-1	Specifications	1-1-1
	1-1-2	Parts names	1-1-2
	1-1-3	Machine cross section	1-1-3
	1-1-4	Drive system	1-1-4
1-2	Insta	allation	
	1-2-1	Unpacking	1-2-1
	1-2-2	Installing the desk dehumidifier (service part)	1-2-2
1-3	Trou	Ibleshooting	
	1-3-1	Paper misfeed detection	1-3-1
		(1) Paper misfeed indication	1-3-1
		(2) Paper misfeed detection conditions	1-3-1
		(3) Paper misfeeds	1-3-3
	1-3-2	Self-diagnosis	
		(1) Self-diagnostic function	
		(2) Self-diagnostic codes	
	1-3-3	Electrical problems	
		(1) The paper feed desk does not operate when the copier print key is pressed	
		(2) The desk drive motor does not operate.	
		(3) The desk upper paper feed clutch does not operate.	
		(4) The desk lower paper feed clutch does not operate	
		(5) The desk feed clutch does not operate.	
		(6) The desk upper lift motor does not operate.	
		(7) The desk lower lift motor does not operate.	
		(8) The bypass paper feed clutch does not operate.	
		<ul><li>(9) The size of paper in the lower drawer is not displayed correctly</li></ul>	
		(10) The message requesting covers to be closed is displayed when the desk left cover is closed	
	1-3-4	Mechanical problems	1-3-10
		(1) No paper feed.	1-3-10
		(2) Skewed paper feed	1-3-10
		(3) Multiple sheets of paper are fed at one time.	1-3-10
		(4) Paper jams	1-3-10
		(5) Abnormal noise is heard.	1-3-10
1-4	Asse	embly and Disassembly	
		Precautions for assembly and disassembly	1-4-1
		(1) Precautions	
	1-4-2	Paper feed section	1-4-2
		(1) Detaching and refitting the forwarding, paper feed and separation pulleys	1-4-2
		(2) Replacing the desk upper or lower paper width switches	
		(3) Replacing the desk feed, upper and lower paper feed clutches	
		(4) Adjusting the position of the rack adjuster	
		(5) Adjusting the amount of slack.	1-4-8
2-1		hanical construction	
	2-1-1	Mechanical construction	2-1-1
2-2		trical Parts Layout	
	2-2-1	Electrical parts layout	2-2-1
2-3	Ope	ration of the PCBs	
	2-3-1	Desk main PCB	2-3-1

2-4	Ap	pen	dixes
<u> </u>	7 YP	pen	uixes

Timing chart No. 1	2-4-1
Timing chart No. 2	2-4-2
Wiring diagram	2-4-3

## 1-1-1 Specifications

Paper	. Plain paper (75 – 80 g/m²)
	. A3 – A5R, folio, 11" × 17" – 5 <sup>1</sup> /2" × 8 <sup>1</sup> /2"
Capacity	. 550 x 2 sheets
Power source	. Electrically connected to the copier.
Dimensions	. 585 (W) × 590 (D) × 315 (H) mm
	23 <sup>1</sup> / <sub>16</sub> " (W) × 23 <sup>1</sup> / <sub>4</sub> " (D) × 12 <sup>3</sup> / <sub>8</sub> " (H)
Weight	. 25 kg/55 lbs

#### 1-1-2 Parts names

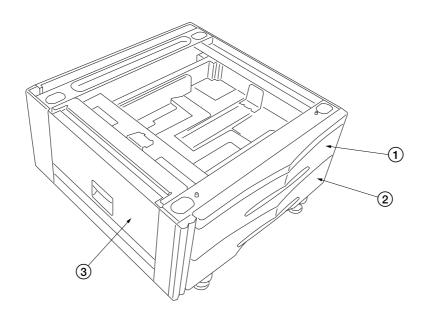


Figure 1-1-1

- Upper drawer
   Lower drawer
   Desk left cover

## 1-1-3 Machine cross section

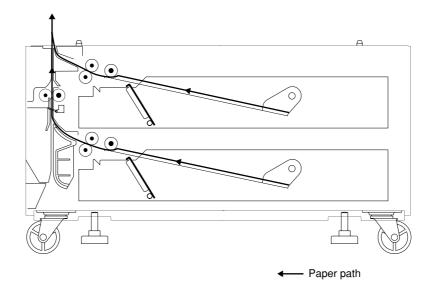
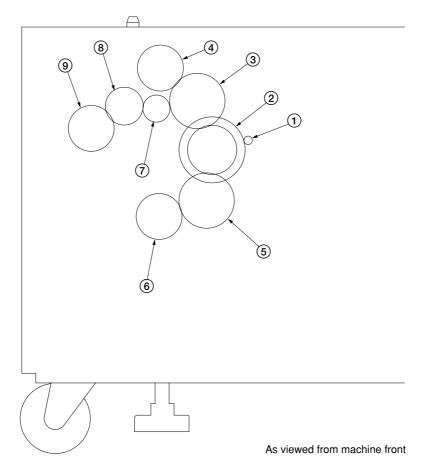


Figure 1-1-2 Machine cross section

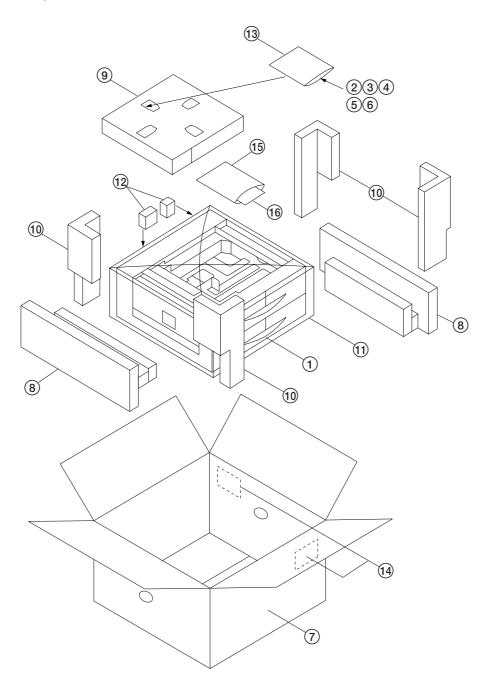
### 1-1-4 Drive system





- Desk drive motor gear
   Idle gear 67/34
   Gear 41
   Desk upper paper feed clutch gear
   Gear 41

- (6) Desk lower paper feed clutch gear
  (7) Gear 20
  (8) Gear 26
  (9) Desk feed clutch gear





1) Paper feed desk(9) Upper pad(2) Retainer(10) Stays(3) Cross-head chromate binding screws,<br/>CVM4 × 06(11) Machine cover(4) Pins(12) Rear spacer(5) Stays(13) Plastic bag(6) Chrome TP screws, M4 × 10(15) Plastic bag(7) Outer case(16) Installation guide

#### 1-2-2 Installing the desk dehumidifier (service part)

Desk dehumidifier installation requires the following parts: Desk dehumidifier (P/N 33960020): for 220 – 240 V specifications only Desk dehumidifier (P/N 34860030): for 120 V specifications only Two (2) M4  $\times$  8 S tight screws (P/N B3324080)

#### Procedure

- 1. Remove the upper and lower drawers.
- 2. Remove the three screws holding the desk rear cover and then the cover.
- 3. Pass the desk dehumidifier cable to the machine rear through the cable hole in the machine right.
- 4. Attach the desk dehumidifier using the two M4  $\times$  8 S tight screws.

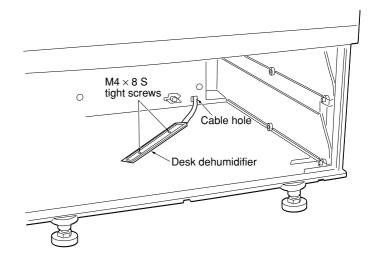


Figure 1-2-2

- 5. Insert the desk dehumidifier connector into the connector of the main harness.
- 6. Tidy up the desk dehumidifier cable using the wire saddle and route the cable while clipping the wire saddles into the holes in the rear frame.
- 7. Refit all removed parts.

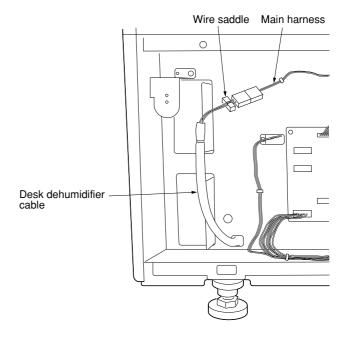


Figure 1-2-3

#### 1-3-1 Paper misfeed detection

#### (1) Paper misfeed indication

When a paper jam occurs, the machine immediately stops operation. The operation unit of the copier shows a jam message and the jam location.

To reset the paper misfeed detection, open and close the desk left cover to turn the desk safety switch off and on.

#### (2) Paper misfeed detection conditions

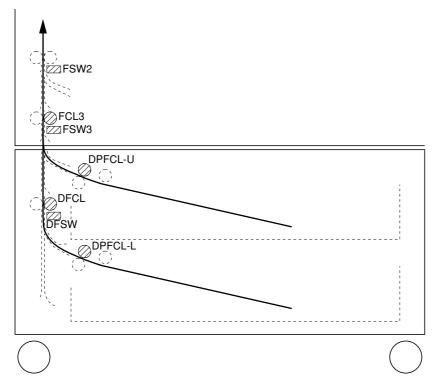
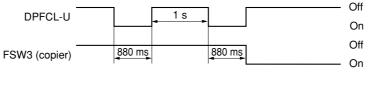


Figure 1-3-1 Paper feed desk

• No paper feed from desk upper drawer (jam code 12)

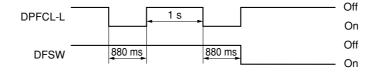
Feed switch 3 (FSW3) of the copier does not turn on within 880 ms of the desk upper paper feed clutch (DPFCL-U) turning on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 880 ms of the retry.



Timing chart 1-3-1

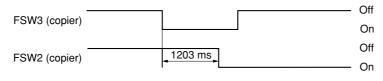
• No paper feed from desk lower drawer (jam code 13)

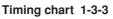
The desk feed switch (DFSW) does not turn on within 880 ms of the desk lower paper feed clutch (DPFCL-L) turning on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 880 ms of the retry.



Timing chart 1-3-2

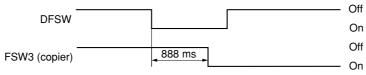
• Jam in copier vertical paper conveying section (jam code 18) Feed switch 2 (FSW2) of the copier does not turn on within 1203 ms of feed switch 3 (FSW3) of the copier turning on.

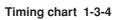




• Jam in paper feed desk vertical paper conveying section (jam code 19)

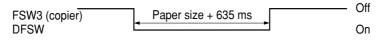
Feed switch 3 (FSW3) of the copier does not turn on within 888 ms of the desk feed switch (DFSW) turning on.





• Multiple sheets in paper feed section (jam code 21)

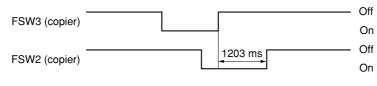
Feed switch 3 (FSW3) of the copier and the desk feed switch (DFSW) do not turn off within the time required to convey the length of the used paper size plus 635 ms of turning on.

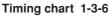


#### Timing chart 1-3-5

• Multiple sheets in vertical paper conveying section (jam code 22)

Feed switch 2 (FSW2) of the copier does not turn off within 1203 ms of feed switch 3 (FSW3) of the copier turning off.





Feed switch 2 (FSW2) of the copier does not turn off within 1203 ms of feed switch 3 (FSW3) of the copier turning on.





Problem	Causes/check procedures	Corrective measures
(1) A paper jam in the paper feed section	Paper in the desk upper drawer is extremely curled.	Change the paper.
is indicated during copying (no paper feed from desk upper drawer). Jam code 12	Check if the paper feed pulley, separation pulley or forwarding pulley of the desk upper drawer is deformed.	Check visually and replace any deformed pulleys.
	Broken copier feed switch 3 actuator.	Check visually and replace feed switch 3 if the actuator is broken.
	Defective copier feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Check if the desk upper paper feed clutch malfunctions.	Run maintenance item U247 and select the desk upper paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the desk upper paper feed clutch.	Check (see page 1-3-7).
(2) A paper jam in the	Paper in the desk lower drawer is extremely curled.	Change the paper.
paper feed section is indicated during copying (no paper feed from desk lower drawer). Jam code 13	Check if the paper feed pulley, separation pulley or forwarding pulley of the desk lower drawer is deformed.	Check visually and replace any deformed pulleys.
	Broken desk feed switch actuator.	Check visually and replace the desk feed switch if the actuator is broken.
	Defective desk feed switch.	With 5 V DC present at CN2-8 on the desk main PCB, check if CN2-7 on the desk main PCB goes low when the desk feed switch is turned on. If not, replace the desk feed switch.
	Check if the desk lower paper feed clutch malfunctions.	Run maintenance item U247 and select the desk lower paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the desk lower paper feed clutch.	Check (see page 1-3-7).
(3) A paper jam in the	Broken copier feed switch 2 actuator.	Check visually and replace feed switch 2 if the actuator is broken.
paper feed section is indicated during copying (jam in copier vertical paper conveying section). Jam code 18	Defective copier feed switch 2.	Run maintenance item U031 and turn feed switch 2 on and off manually. Replace feed switch 2 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.

Problem	Causes/check procedures	Corrective measures
(4) A paper jam in the paper feed section	Broken copier feed switch 3 actuator.	Check visually and replace feed switch 3 if the actuator is broken.
is indicated during copying (jam in paper desk vertical	Defective copier feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the corresponding switch on the operation panel is not displayed in reverse.
paper conveying section). Jam code 19	Check if the desk lower paper feed clutch malfunctions.	Run maintenance item U247 and select the desk lower paper feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the desk lower paper feed clutch.	Check (see page 1-3-7).
	Check if the desk feed clutch malfunctions.	Run maintenance item U247 and select the desk feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the desk feed clutch.	Check (see page 1-3-7).
	Check if the desk feed rollers or pulleys are soiled with paper powder.	Check and clean with isopropyl alcohol if soiled.
(5) A paper jam in the paper feed section is indicated during copying (multiple sheets in paper feed section). Jam code 21	Check if the desk feed rollers or pulleys are soiled with paper powder.	Check and clean with isopropyl alcohol if soiled.
(6) A paper jam in the paper feed section is indicated during copying (multiple sheets in copier vertical conveying section). Jam code 22	Check if the copier feed rollers or pulleys are soiled with paper powder.	Check and clean with isopropyl alcohol if soiled.

#### 1-3-2 Self-diagnosis

#### (1) Self-diagnostic function

When a problem is detected in the paper feed desk, copying is disabled and the problem displayed on the operation unit of the copier as a code consisting of "C" followed by a number between 0420 and 2600, indicating the nature of the problem. After removing the problem, the self-diagnostic function can be reset by turning the desk safety switch off and back on.

#### (2) Self diagnostic codes

Code	Contents	Remarks		
Code		Causes	Check procedures/corrective measures	
C0420	<b>Communication problem</b> An error code from the paper feed desk is detected eight times in succession. No communication: there is no reply after 3 retries.	Poor contact of the connector terminals.	Check the connection of connectors CN3 on the copier main PCB and CN5 on the desk main PCB, and the continuity across the connector terminals. Remedy or replace if necessary.	
	Abnormal communication: a communication error (parity or checksum error) is detected five times in succession.	Defective copier main PCB.	Replace the copier main PCB and check for correct operation.	
		Defective desk main PCB.	Replace the desk main PCB and check for correct operation.	
C1030	C1030 Desk upper lift motor problem When the upper drawer of the paper feed desk is inserted, the desk upper lift limit switch does not turn on within 6 s of the desk upper lift motor turning on and the desk upper lift limit switch does not turn on by turning off the desk upper lift motor for 200 ms and retrying twice. During copying, the desk upper lift limit switch does not turn on within 200 ms of the desk upper lift motor turning on.	Broken gears or couplings of the desk upper lift motor.	Replace the desk upper lift motor.	
		Defective desk upper lift motor.	Check for continuity across the coil. If none, replace the desk upper lift motor.	
		Poor contact of the desk upper lift motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.	
		Defective desk upper lift limit switch.	Check if CN1-5 on the desk main PCB goes low when the desk upper lift limit switch is turned off. If not, replace the desk upper lift limit switch.	
		Poor contact of the desk upper lift limit switch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.	

Code	Contents	Remarks		
		Causes	Check procedures/corrective measures	
C1040	<b>Desk lower lift motor problem</b> When the lower drawer of the paper feed desk is inserted, the desk lower lift limit switch does not turn on within 6 s	Broken gears of couplings of the desk lower lift motor.	Replace the desk lower lift motor.	
	of the desk lower lift motor turning on and the desk lower lift limit switch does not turn on by turning off the desk lower	Defective desk lower lift motor.	Check for continuity across the coil. If none, replace the desk lower lift motor.	
	lift motor for 200 ms and retrying twice. During copying, the desk lower lift limit switch does not turn on within 200 ms of the desk lower lift motor turning on.	Poor contact of the desk lower lift motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.	
		Defective desk lower lift limit switch.	Check if CN1-7 on the desk main PCB goes low when the desk lower lift limit switch is turned off. If not, replace the desk lower lift limit switch.	
		Poor contact of the desk lower lift limit switch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.	
C1170	Paper feed desk incorrect type problem	Desk for the printer is installed.	Replace the desk fot the copier.	
C2600	Desk drive motor problem No pulse is input within 500 ms of the start-up. No pulse is input within 100 ms of the previous pulse input.	Defective desk drive motor PCB.	Replace the desk drive motor PCB and check for correct operation.	
		Desk drive motor does not rotate correctly (the motor is over- loaded).	Check the gears and remedy if necessary.	
		Poor contact in the desk drive motor connector terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.	

## 1-3-3 Electrical problems

Problem	Causes	Check procedures/corrective measures
(1) The paper feed desk does not operate when the	Poor contact of the signal cable connector terminals between the paper feed desk and the copier.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
copier print key is pressed.	Defective desk safety switch.	Check for continuity across the contacts. If none, replace the desk safety switch.
(2) The desk drive motor does not	Poor contact of the desk drive motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
operate.	Broken desk drive motor gear.	Check visually and replace the desk drive motor if necessary.
	Defective desk drive motor.	Check if the desk drive motor operates when CN4-6 on the desk main PCB goes low. If not, replace the desk drive motor.
	Defective desk main PCB.	Check if CN4-6 on the desk main PCB goes low when the desk drive motor is operated in maintenance item U247. If not, replace the desk main PCB.
(3) The desk upper	Broken desk upper paper feed clutch coil.	Check for continuity across the coil. If none, replace the desk upper paper feed clutch.
paper feed clutch does not operate.	Poor contact of the desk upper paper feed clutch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
	Defective desk main PCB.	Check if CN1-14 on the desk main PCB goes low when the desk upper paper feed clutch is operated in maintenance item U247. If not, replace the desk main PCB.
(4) The desk lower	Broken desk lower paper feed clutch coil.	Check for continuity across the coil. If none, replace the desk lower paper feed clutch.
paper feed clutch does not operate.	Poor contact of the desk lower paper feed clutch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
	Defective desk main PCB.	Check if CN1-13 on the desk main PCB goes low when the desk lower paper feed clutch is operated in maintenance item U247. If not, replace the desk main PCB.
(5) The desk feed clutch does not	Broken desk feed clutch coil.	Check for continuity across the coil. If none, replace the desk feed clutch.
operate.	Poor contact of the desk feed clutch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
	Defective desk main PCB.	Check if CN2-1 on the desk main PCB goes low when the desk feed clutch is operated in maintenance item U247. If not, replace the desk main PCB.

Problem	Causes	Check procedures/corrective measures
(6) The desk upper lift motor does not	Broken desk upper lift motor coil.	Check for continuity across the coil. If none, replace the desk upper lift motor.
operate.	Poor contact of the desk upper lift motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
	Defective desk main PCB.	Check if 24 V DC is output across CN2-5 (–) and CN2-6 (+) on the desk main PCB right after the desk upper drawer is installed. If not, replace the desk main PCB.
(7) The desk lower lift motor does not	Broken desk lower lift motor coil.	Check for continuity across the coil. If none, replace the desk lower lift motor.
operate.	Poor contact of the desk lower lift motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
	Defective desk main PCB.	Check if 24 V DC is output across CN2-3 (–) and CN2-4 (+) on the desk main PCB right after the desk lower drawer is installed. If not, replace the desk main PCB.
(8) The size of paper in the upper drawer is	Poor contact of the desk upper paper length switch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
not displayed correctly.	Poor contact of the desk upper paper width switch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
	Defective desk upper paper length switch.	Check if CN3-7 on the desk main PCB goes low when the desk upper paper length switch is turned on. If not, replace the desk upper paper length switch.
	Defective desk upper paper width switch.	Check for continuity between CN3-9 and CN3-1, CN3-2, and CN3-3 on the desk main PCB. If the continuity is unaffected by movement of the width guides in the upper drawer (i.e. either remains present or remains absent), then replace the desk upper paper width switch.
(9) The size of paper in the lower drawer is	Poor contact of the desk lower paper length switch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
not displayed correctly.	Poor contact of the desk lower paper width switch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
	Defective desk lower paper length switch.	Check if CN3-8 on the desk main PCB goes low when the desk lower paper length switch is turned on. If not, replace the desk lower paper length switch.
	Defective desk lower paper width switch.	Check for continuity between CN3-10 and CN3-4, CN3-5, and CN3-6 on the desk main PCB. If the continuity is unaffected by movement of the width guides in the lower drawer (i.e. either remains present or remains absent), then replace the desk lower paper width switch.

Problem	Causes	Check procedures/corrective measures
(10) The message requesting covers to be closed is	Poor contact of the desk safety switch connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, repair or replace the cable.
displayed when the desk left cover is closed.	Defective desk safety switch.	Check for continuity across the contacts. If there is no continuity when the desk safety switch is on, replace it.
(11) Others.	Wiring is broken, shorted or makes poor contact.	Check for continuity. If none, repair.
	Noise.	Locate the source of noise and remove.

## 1-3-4 Mechanical problems

Problem	Causes/check procedures	Corrective measures
(1) No paper feed.	Check if the surfaces of the following rollers and pulleys are soiled with paper powder: forwarding pulley, paper feed pulley, separation pulley, desk feed roller and desk feed pulley.	Clean with isopropyl alcohol.
	Check if the paper feed pulley or separation pulley is deformed.	Replace (see page 1-4-2).
	Check if the forwarding pulley is deformed.	Replace (see page 1-4-2).
	Electrical problem with the following electromagnetic clutches: desk upper/lower paper feed clutches and desk feed clutch.	See pages 1-3-7.
(2) Skewed paper feed.	Width guide in the drawer installed incorrectly.	Check the width guide visually and remedy or replace if necessary.
	Deformed width guide in the drawer.	Check the width guide visually and remedy or replace if it is deformed.
(3) Multiple sheets of paper are fed at one time.	Check if the separation pulley is deformed.	Replace the separation pulley if it is worn (see page 1-4-2).
	Check if the paper is curled.	Change the paper.
(4) Paper jams.	Check if the paper is excessively curled.	Change the paper.
	Deformed guides along the paper conveying path.	Check visually and remedy or replace any deformed guides.
(5) Abnormal noise is heard.	Check if the pulleys, rollers and gears operate smoothly.	Grease the bearings and gears.
	Check if the desk upper and lower paper feed clutches and the desk feed clutch are installed correctly.	Remedy.

#### 1-4-1 Precautions for assembly and disassembly

#### (1) Precautions

- Be sure to turn the main switch off and disconnect the power plug before starting disassembly.
- When handling PCBs, do not touch connectors with bare hands or damage the board.
- Do not touch PCBs containing ICs with bare hands or any object prone to static charge.
- Use the following testers when measuring voltages:

Hioki 3200 Sanwa MD-180C Sanwa YX-360TR Beckman TECH300 Beckman DM45 Beckman 330 (capable of measuring RMS values) Beckman DM850 (capable of measuring RMS values) Beckman DM850 (capable of measuring RMS values) Fluke 8060A (capable of measuring RMS values) Arlec DMM1050 Arlec YF1030C

#### 1-4-2 Paper feed section

#### (1) Detaching and refitting the forwarding, paper feed and separation pulleys

Replace the forwarding, paper feed and separation pulleys as follows.

#### Procedure

- Removing the primary paper feed units
- 1. Remove the upper and lower drawers.
- 2. Remove the two screws holding the lower front cover and then the cover.
- 3. Remove the one screw from each of the primary paper feed units and then the units.

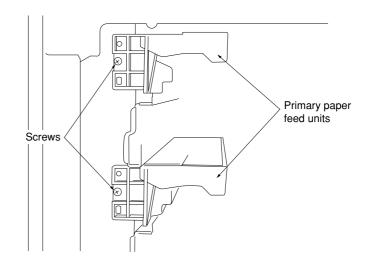


Figure 1-4-1 Detaching the primary paper feed units

#### Removing the forwarding pulley

- 4. Remove the stopper.
- 5. Raise the forwarding pulley retainer in the direction of the arrow, and remove from the primary paper feed unit.

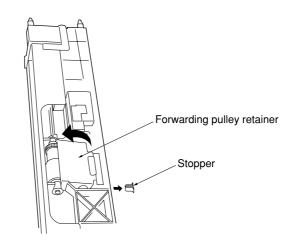


Figure 1-4-2 Detaching the forwarding pulley retainer

6. Remove the stop ring, pull the forwarding pulley shaft in the direction of the arrow, and remove the forwarding pulley.

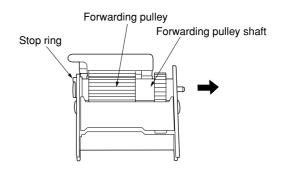
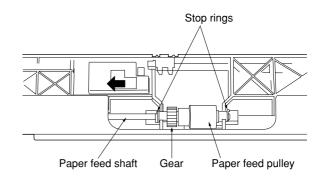


Figure 1-4-3 Detaching the forwarding pulley

#### Removing the paper feed pulley

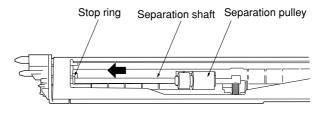
- 7. Remove the two stop rings.
- 8. Pull the paper feed shaft toward the rear of the primary paper feed unit (in the direction of the arrow) and remove the paper feed pulley and gear.



#### Figure 1-4-4 Detaching the paper feed pulley

#### Removing the separation pulley

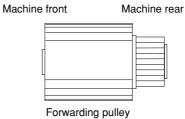
- 9. Remove the stop ring from the rear of the primary paper feed unit.
- 10. Pull the separation shaft toward the rear of the machine (in the direction of the arrow) and remove the separation pulley.
- 11. Replace the forwarding, paper feed and separation pulleys.
- 12. Refit all removed parts.



#### Figure 1-4-5 Detaching the separation pulley

#### Cautions:

- When fitting the forwarding pulley, orient it correctly as shown in Figure 1-4-6.
- When fitting the paper feed pulley and gear, keep the blue end of the paper feed pulley and the black end of the gear toward the machine rear.





#### (2) Replacing the desk upper or lower paper width switches

Replace the desk upper or lower paper width switches as follows.

#### Caution:

After replacing a desk paper width switch, be sure to perform (4) Adjusting the position of the rack adjuster.

#### Procedure

switch.

- 1. Remove the drawer.
- 2. Remove the two screws and 8-pin socket from the rear of the drawer.
- 3. Detach the 8-pin desk paper width switch connector from the 8-pin socket.
- 4. Remove the three screws holding the rack adjuster.
- 5. While raising the drawer lift in the direction of the arrow, remove the rack adjuster.

6. Remove the two screws from the back of the

rack adjuster and then the desk paper width

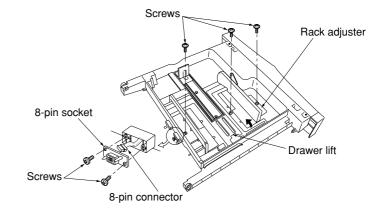


Figure 1-4-7 Detaching the rack adjuster

Screws Desk paper width switch



- 7. Apply the specified grease to the printed surface of the new desk paper width switch (shaded area in the diagram) and fit the switch to the rack adjuster.
- 8. Refit all removed parts.

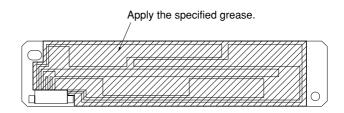


Figure 1-4-9 Desk paper width switch

#### (3) Replacing the desk feed, upper and lower paper feed clutches

Replace the desk feed, upper and lower paper feed clutches as follows.

#### Procedure

- 1. Remove the three screws holding the desk rear cover and then the cover.
- 2. Remove the cable from the retainer clamp.
- 3. Remove the three screws holding the retainer and then the retainer.
- 4. Remove the two screws holding the rear cover left retainer and then the retainer.

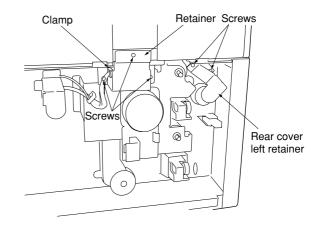
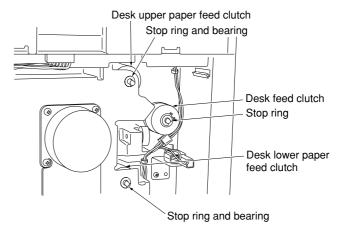


Figure 1-4-10

- 5. Remove the upper and lower stop rings and bearings from the desk upper and lower paper feed clutches.
- 6. Remove the stop ring from the desk feed clutch.





7. Remove the three screws holding the desk drive motor retainer and then the retainer.

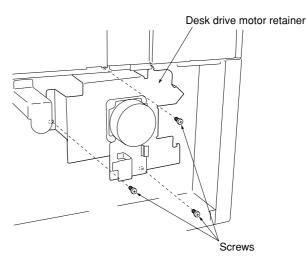
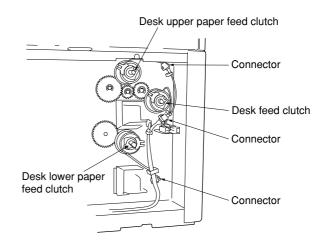


Figure 1-4-12 Detaching the desk drive motor retainer

зсс

8. Remove the connectors of the desk feed, upper and lower paper feed clutches and then the clutches.



## Figure 1-4-13 Detaching the desk feed, upper and lower paper feed clutches

9. Replace the clutches.

10. Refit all removed parts.

#### Caution:

When fitting the clutches, be sure to refit the whirl-stops.

Perform the following adjustment if there is a regular error between the center lines of the copy image and the original on the paper fed from the drawer.

#### Procedure

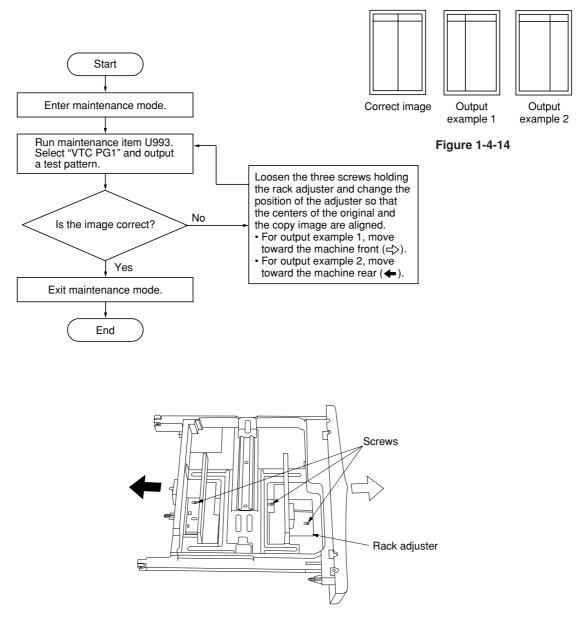


Figure 1-4-15 Adjusting the position of the rack adjuster

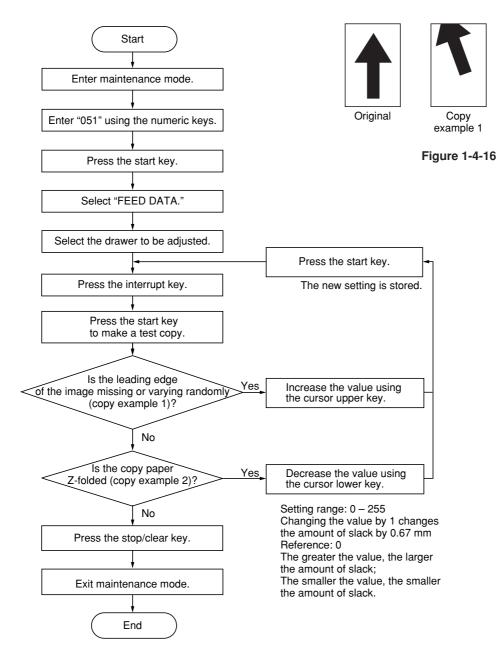
#### (5) Adjusting the amount of slack

Perform the following adjustment if the leading edge of the copy image is missing or varies randomly, or if the copy paper is Z-folded.

Copy

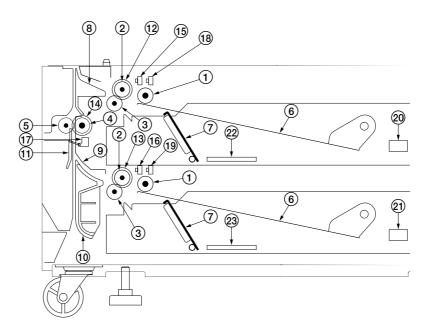
example 2

#### Procedure



#### 2-1-1 Mechanical construction

The paper feed desk feeds paper from either of its two drawers to the copier main body. When paper is fed from the lower drawer of the paper feed desk, the desk feed clutch (DFCL) is operated to rotate the desk feed roller and pulley to carry the paper into the copier main body.





(1) Forwarding pulley

- 2 Paper feed pulley
- (3) Separation pulley
- (4) Desk feed roller
- (5) Desk feed pulley(6) Drawer lift
- (7) Lift operating plate
- (8) Desk upper feed guide
- 9 Desk middle feed guide
- (10) Desk lower feed guide
- (1) Desk feed guide
- (12) Desk upper paper feed clutch (DPFCL-U)

(13) Desk lower paper feed clutch (DPFCL-L) 14 Desk feed clutch (DFCL) (15) Desk upper paper switch (DPSW-U) (6) Desk lower paper switch (DPSW-L) (1) Desk feed switch (DFSW) (18) Desk upper lift limit switch (DLICSW-U) (19) Desk lower lift limit switch (DLICSW-L) Desk upper paper length switch (DPLSW-U) Desk lower paper length switch (DPLSW-L) 2 Desk upper paper width switch (DPWSW-U)

23 Desk lower paper width switch (DPWSW-L)

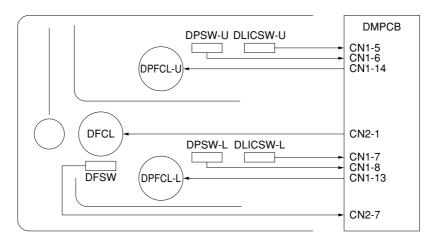
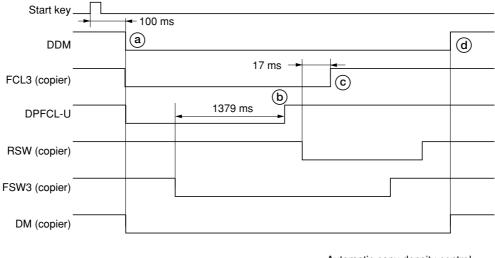


Figure 2-1-2 Paper feed desk block diagram

#### · Paper feed from the desk upper drawer

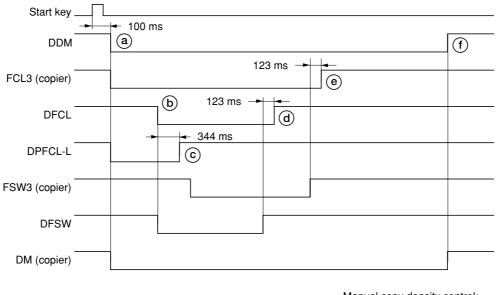


 $\begin{array}{c} \mbox{Automatic copy density control;} \\ \mbox{A3/11"} \times 17" \mbox{ paper; magnification of } 100\% \end{array}$ 

#### Timing chart 2-1-1 Paper feed from the desk upper drawer

- (a) 100 ms after the start key is pressed, the desk drive motor (DDM) turns on at the same time as the drive motor (DM) turns on, starting the drive for the paper feed desk. The desk upper paper feed clutch (DPFCL-U) turns on to start rotating the forwarding pulley and paper feed pulley to start paper feed from the upper drawer.
- (b) 1379 ms after the leading edge of the paper turns the feed switch 3 (FSW3) on, the desk upper paper feed clutch (DPFCL-U) turns off.
- © 17 ms after the leading edge of the paper turns the registration switch (RSW) on, feed clutch 3 (FCL3) turns off. ⓓ The desk drive motor (DDM) turns off at the same time as the drive motor (DM) turns off to stop the drive for the paper feed desk.

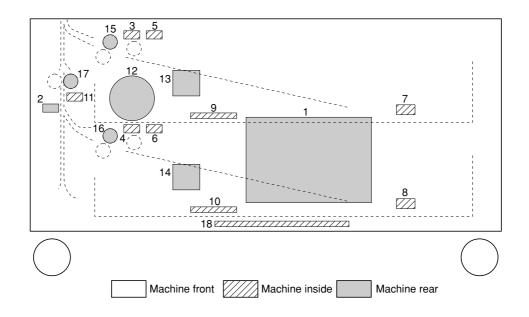
#### · Paper feed from the desk lower drawer

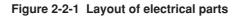


Manual copy density control; A4/11"  $\times$  8<sup>1</sup>/<sub>2</sub>" paper; magnification of 100%

#### Timing chart 2-1-2 Paper feed from the desk lower drawer

- (a) 100 ms after the start key is pressed, the desk drive motor (DDM) turns on at the same time as the drive motor (DM) turns on, starting the drive for the paper feed desk. The desk lower paper feed clutch (DPFCL-L) turns on to start rotating the forwarding pulley and paper feed pulley to start paper feed from the lower drawer.
- (b) At the same time as the leading edge of the paper turns the desk feed switch (DFSW) on, the desk feed clutch (DFCL) turns on to rotate the desk feed roller to convey the paper to the copier.
- © 344 ms after the desk feed switch (DFSW) turns on, the desk lower paper feed clutch (DPFCL-L) turns off.
- (d) 123 ms after the trailing edge of the paper turns the desk feed switch (DFSW) off, the desk feed clutch (DFCL) turns off.
- ) 123 ms after the trailing edge of the paper turns feed switch 3 (FSW3) off, feed clutch 3 (FCL3) turns off.
- (The desk drive motor (DDM) turns off at the same time as the drive motor (DM) turns off to stop the drive for the paper feed desk.





1. Desk main PCB (DMPCB) Controls electrical parts.
2. Desk safety switch (DSSW) Breaks the safety circuit when the desk left cover is opened, and resets paper jam detection.
3. Desk upper paper switch (DPSW-U) Detects the presence of paper in the desk upper drawer.
4. Desk lower paper switch (DPSW-L) Detects the presence of paper in the desk lower drawer.
5. Desk upper lift limit switch (DLICSW-U) Detects the desk upper drawer lift reaching the upper limit.
6. Desk lower lift limit switch (DLICSW-L) Detects the desk lower drawer lift reaching the upper limit.
7. Desk upper paper length switch (DPLSW-U) Detects the length of paper in the desk upper drawer.
8. Desk lower paper length switch (DPLSW-L) Detects the length of paper in the desk lower drawer.
<ol><li>Desk upper paper width switch (DPWSW-U) Detects the width of paper in the desk upper drawer.</li></ol>
10. Desk lower paper width switch (DPWSW-L) Detects the width of paper in the desk lower drawer.
11. Desk feed switch (DFSW) Controls the desk lower paper feed clutch.
12. Desk drive motor (DDM) Drives the paper feed desk.
13. Desk upper lift motor (DCLM-U) Drives the desk upper drawer lift.
14. Desk lower lift motor (DCLM-L) Drives the desk lower drawer lift.
15. Desk upper paper feed clutch (DPFCL-U) Primary paper feed from the desk upper drawer.
16. Desk lower paper feed clutch (DPFCL-L) Primary paper feed from the desk lower drawer.
17. Desk feed clutch (DFCL) Conveys paper to the copier.
18.Desk dehumidifier* (DDH) Dehumidifies paper.

\* Service part.

#### 2-3-1 Desk main PCB

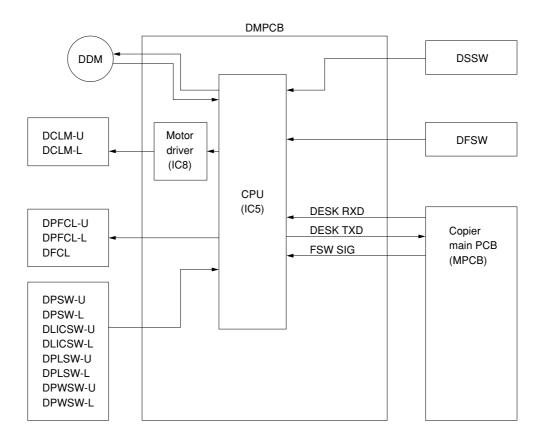


Figure 2-3-1 Desk main PCB block diagram

The desk main PCB (DMPCB) is controlled from the copier main PCB (MPCB) which controls the inputs from and outputs to the motors, clutches and switches on the paper feed desk through the CPU IC5 serially via two-way serial/parallel 8-bit data conversion.

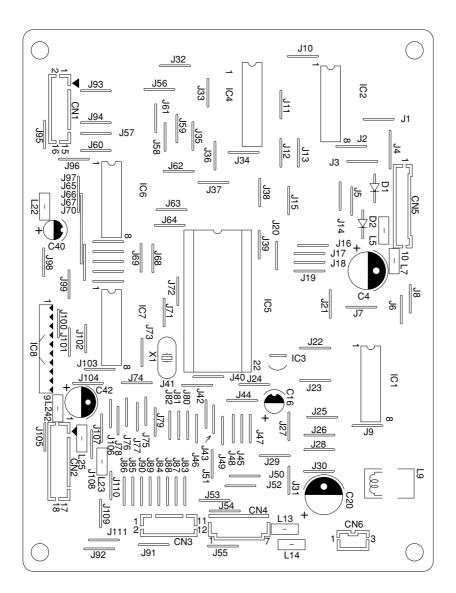
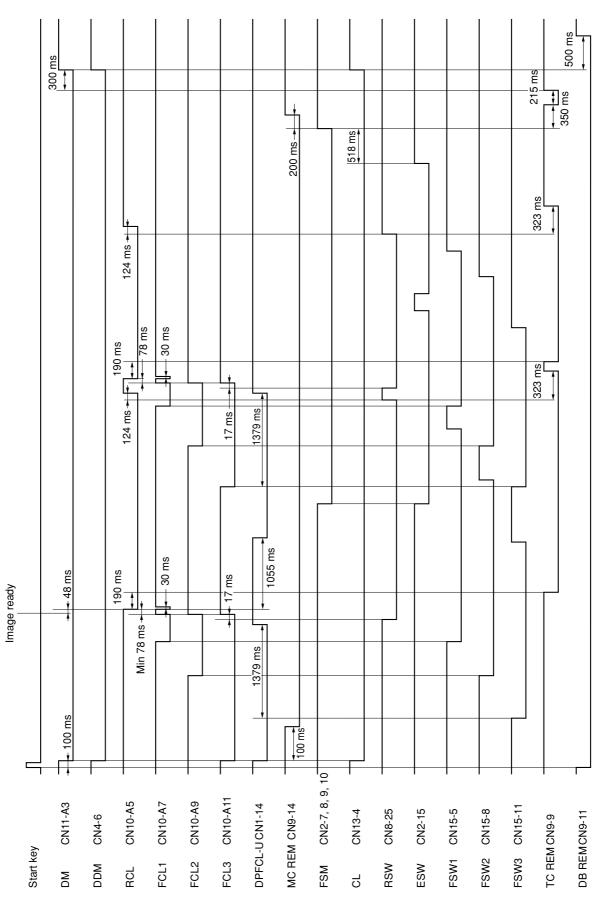


Figure 2-3-2

Terminals (CN)         Voltage         Remark           1-1         1-9         5 V DC         5 V DC supply for DLICSW-U, output           1-2         1-10         5 V DC         5 V DC supply for DPSW-U, output           1-3         1-11         5 V DC         5 V DC supply for DLICSW-L, output           1-4         1-12         5 V DC         5 V DC supply for DPSW-L, output           1-5         1-9         5/0 V DC         DLICSW-U on/off, input	
1-2         1-10         5 V DC         5 V DC supply for DPSW-U, output           1-3         1-11         5 V DC         5 V DC supply for DLICSW-L, output           1-4         1-12         5 V DC         5 V DC supply for DPSW-L, output	
1-31-115 V DC5 V DC supply for DLICSW-L, output1-41-125 V DC5 V DC supply for DPSW-L, output	
1-4 1-12 5 V DC 5 V DC supply for DPSW-L, output	
1-5 1-9 5/0 V DC DLICSW-U on/off, input	
1-6         1-10         0/5 V DC         DElicitiv c chi/chi, input	
1-7         1-11         5/0 V DC         DLICSW-L on/off, input	
1-7         1-11         0/6 V DO         DElocive on/off, input           1-8         1-12         0/5 V DC         DPSW-L on/off, input	
1-13 5-8 0/24 V DC DFCL-L on/off, input	
1-133-80/24 V DCD1 V CE C 01/01, mput1-145-824 V DC24 V DC supply for DPFCL-L, output	
1-14         3-8         24 V DC         24 V DC         24 V DC supply for D1 V C=1, output           1-15         5-8         0/24 V DC         DPFCL-U on/off, input	
1-165-824 V DCDFT CE-0 01/01, input1-165-824 V DC24 V DC supply for DPFCL-U, output	
1-10         5-8         24 V DC         24 V DC         24 V DC supply for DF CE-0, output           2-1         5-8         0/24 V DC         DFCL on/off, input	
2-2 5-8 24 V DC DI CE GI/OII, II)du	
2-4 5-8 24 V DC 24 V DC supply for DCLM-L, output	
2-5 5-8 0/24 V DC DCLM-U on/off, input	
2-6 5-8 24 V DC 24 V DC supply for DCLM-U, output	
2-7 2-9 0/5 V DC DFSW on/off, output	
2-8 2-9 5 V DC 5 V DC supply for DFSW, output	
2-15 2-13 0/5 V DC Paper level detection switch on/off, input	
2-16 2-14 0/5 V DC Paper level detection switch on/off, input	
2-17 2-13 0/5 V DC Paper level detection switch on/off, input	
2-18 2-14 0/5 V DC Paper level detection switch on/off, input	
3-1 3-9 0/5 V DC DPWSW-U (DIG0) on/off, input	
3-2 3-9 0/5 V DC DPWSW-U (DIG1) on/off, input	
3-3 3-9 0/5 V DC DPWSW-U (DIG2) on/off, input	
3-4 3-10 0/5 V DC DPWSW-L (DIG0) on/off, input	
3-5 3-10 0/5 V DC DPWSW-L (DIG1) on/off, input	
3-6 3-10 0/5 V DC DPWSW-L (DIG2) on/off, input	
3-7 3-11 0/5 V DC DPLSW-U on/off, input	
3-8 3-12 0/5 V DC DPLSW-L on/off, input	
4-1 4-2 24 V DC 24 V DC supply for DDM, output	
4-4 4-3 5 V DC 5 V DC supply for DDM, output	
4-5 4-2 0/5 V DC (pulse) Clock signal to DDM, output	
4-6 4-2 0/5 V DC DDM on/off, output	
4-7 4-2 0/5 V DC LOCK signal to DDM, input	
5-1 5-2 0/5 V DC FSW3 on/off from the copier, input	
5-3 5-2 0/5 V DC (pulse) Serial communication signal to the copier	
5-5 5-4 0/5 V DC (pulse) Serial communication signal to the copier	r, input
5-6 5-7 5 V DC 5 V DC supply, input	
5-10 5-8 24 V DC 24 V DC supply, input	
6-1 5-8 24/0 V DC DSSW on/off, input	
6-35-824 V DC24 V DC supply for DSSW, output	

Continuous copying an A3/11" × 17" original onto two sheets of A3/11" × 17" copy paper from the paper feed desk upper drawer, magnification ratio 100%, auto copy density control Timing chart No. 1

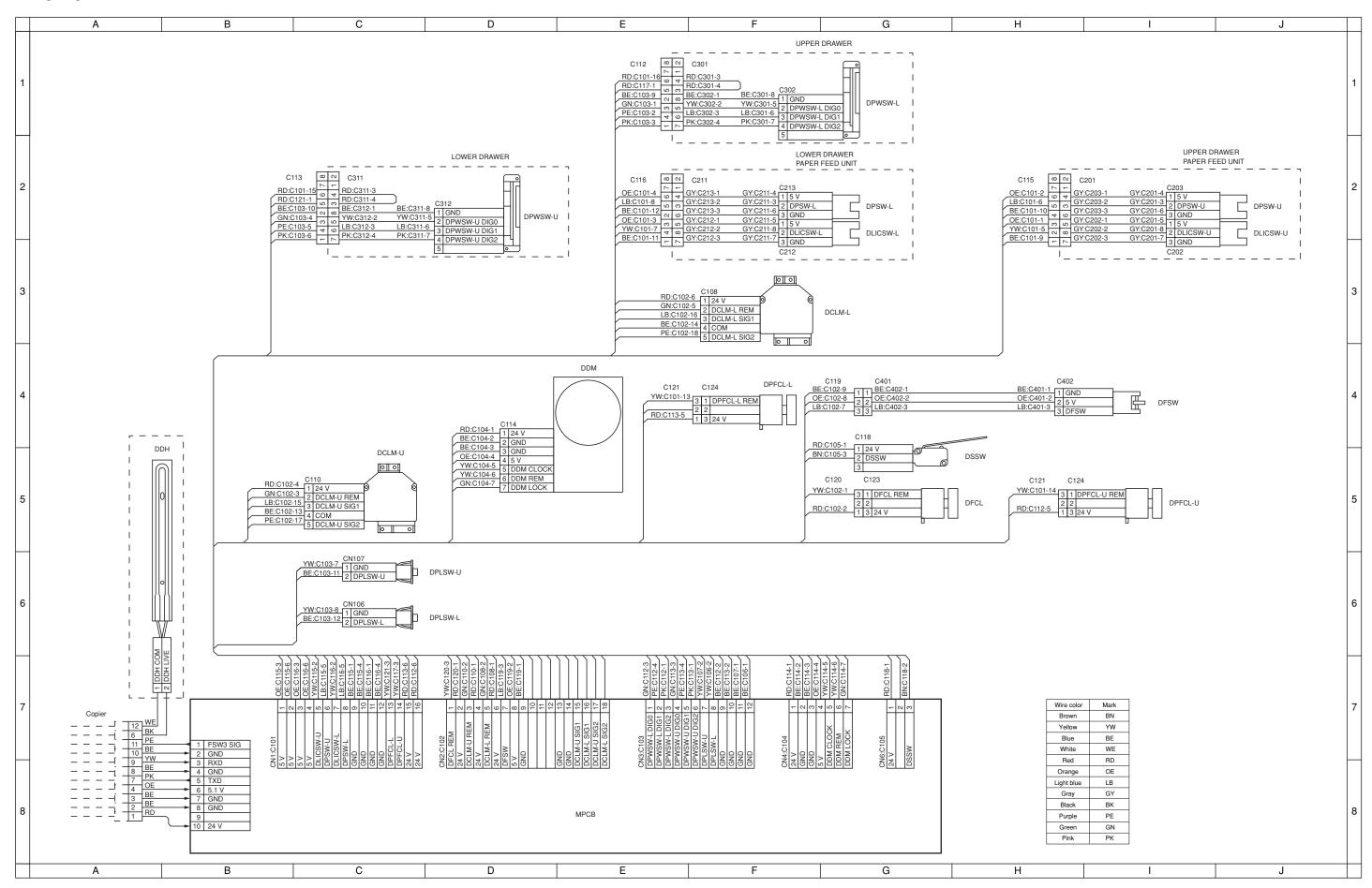


2-4-1

magnification ratio 100%,	100%, manual copy density control		
	Image ready		
Start key		300 ms	
DM CN11-A3 100 ms	+ + 48 ms		
-			
	190 ms		
RCL CN10-A5	Min 78 ms + + +		
FCL1 CN10-A7	30 ms		
FCL2 CN10-A9	17 ms		
FCL3 CN10-A11	123 ms		
DFCL CN2-1	+		
DPFCL-L CN1-13		200 ms	
MC REMCN9-14			
FSM CN2-7, 8, 9, 10		218 ms	
CL CN13-4			
RSW CN8-25			
ESW CN2-15			
FSW1 CN15-5			
FSW2 CN15-8			
FSW3 CN15-11			
DFSW CN2-7	333 mc	215 ms	
TC REM CN9-9		350 ms 500 ms	
DB REM CN9-11			



#### Wiring diagram



#### 3CC

# **RA-1**

# CONTENTS

1-1	Specifications	
	1-1-1 Part names	1-1-1
	1-1-2 Machine cross section	1-1-2
	1-1-3 Drive system	1-1-3
1-2	Installation	
	1-2-1 Unpacking	1-2-1
1-3	Troubleshooting	
	1-3-1 Paper misfeed detection	1-3-1
	(1) Paper misfeed indication	
	(2) Paper misfeed detection conditions	
	(3) Paper misfeeds	
	1-3-2 Electrical problems	
	(1) The switchback conveying motor does not operate.	
	<ul> <li>(2) The switchback eject motor does not operate.</li> <li>(2) The foodability adapted does not operate.</li> </ul>	
	<ul><li>(3) The feedshift solenoid does not operate.</li><li>(4) The press solenoide does not operate.</li></ul>	
	1-3-3 Mechanical problems	
	(1) Paper jams.	
	(2) Abnormal noise is heard.	
2-1	Mechanical construction	
	2-1-1 Construction of each section	2-1-1
	(1) Paper switchback operation	
2-2	Electrical Parts Layout	
	2-2-1 Electrical parts layout	2-2-1
	(1) PCBs	2-2-1
	(2) Switches and solenoids	2-2-2
	(3) Motors	2-2-3
2-3	Operation of the PCBs	
	2-3-1 Main PCB	2-3-1
2-4	Appendixes	
	Timing chart No. 1	2-4-1
	Wiring diagram	

## 1-1-1 Part names

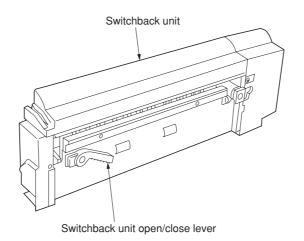


Figure 1-1-1

# 1-1-2 Machine cross section

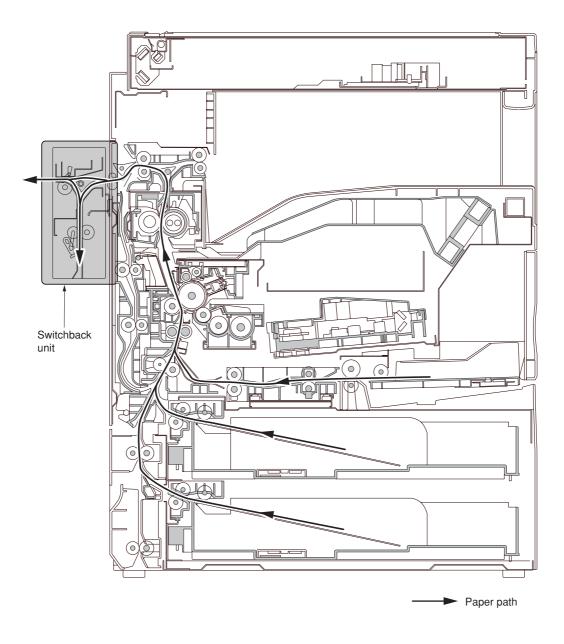
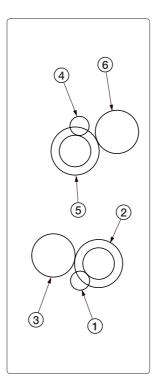


Figure 1-1-2

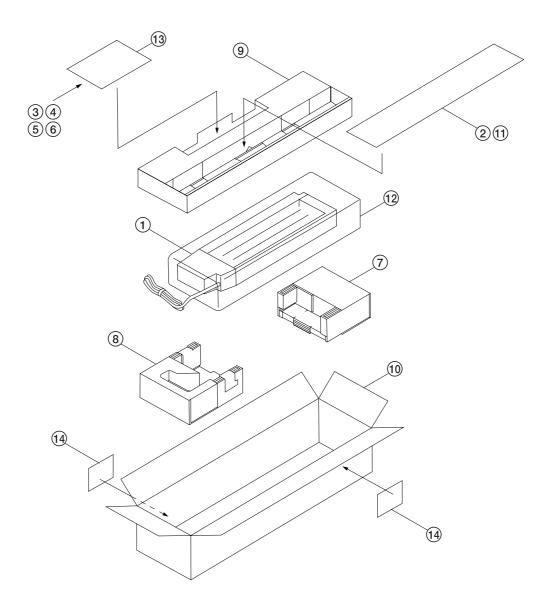
# 1-1-3 Drive system



## Figure 1-1-3

- Switchback motor gear
   Eject motor gear
   Gear 23/31
   Gear 21

# 1-2-1 Unpacking





(1) Switchback unit	(8) Front bottom pad
2 Front cover	9 Rear bottom pad
③ Spacer	10 Upper pad
(4) Binding screws $M3 \times 08$	(1) Outer case
(5) Binding screws M4 $\times$ 06	12 Plastic bag
6 TP screws M4 × 12	13 Plastic bag
$(7)$ TP screws M4 $\times$ 16	(14) Bar-code labels

#### 1-3-1 Paper misfeed detection

#### (1) Paper misfeed indication

When paper jams, the machine immediately stops operation and the occurrence of a paper jam is indicated on the copier operation panel.

To remove the jammed paper, raise the switchback unit open/close lever and open the switchback unit. To reset the paper misfeed detection, open and close the switchback unit to turn the switchback unit safty switch off and on.

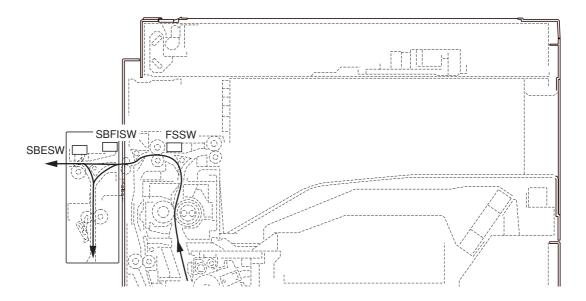
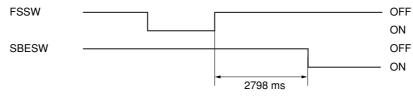


Figure 1-3-1 Paper misfeed detection

#### 3CP

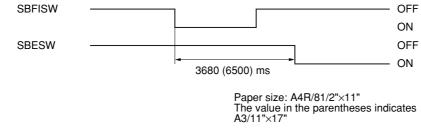
#### (2) Paper misfeed detection condition

• Misfeed in switchback section (jam code 53) The switchback eject switch (SBESW) does not turn off within 2797 ms of the copier feedshift switch (FSSW) turning on.



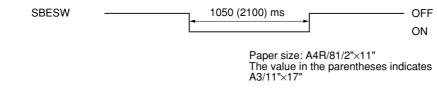


The switchback eject switch (SBESW) does not turn on within 3680 ms (6500 ms) of the switchback feed in switch (SBFISW) turning on.



#### Timing chart 1-3-2

The switchback eject switch (SBESW) does not turn off within 1050 ms (2100 ms) of turning on.





Problem	Causes	Check procedures/corrective measures
(1) Paper jams in the switchback unit when the main switch is turned on.	A piece of paper torn from copy paper is caught around the switchback eject switch and switchback feed in switch.	Remove any found.
	Defective switchback feed in switch.	With 5 V DC present at CN5-1 on the main PCB, check if CN5-3 on the main PCB remains high or low when the switchback feed in switch is turned on and off. If it does, replace the switchback feed in switch.
	Defective switchback eject switch.	With 5 V DC present at CN5-2 on the main PCB, check if CN5-4 on the main PCB remains high or low when the switchback eject switch is turned on and off. If it does, replace the switchback eject switch.
(2) Paper jams in the	Broken switchback eject switch actuator.	Check visually and replace the switchback eject switch if its actuator is broken.
switchback section is indicated during copying (jam in switchback unit). Jam code 53	Defective switchback feed in switch.	With 5 V DC present at CN5-1 on the main PCB, check if CN5-3 on the main PCB remains high or low when the switchback feed in switch is turned on and off. If it does, replace the switchback feed in switch.
	Defective switchback eject switch.	With 5 V DC present at CN5-2 on the main PCB, check if CN5-4 on the main PCB remains high or low when the switchback eject switch is turned on and off. If it does, replace the switchback eject switch.

# 1-3-2 Electrical problems

Problem	Causes	Check procedures/corrective measures
(1) The switchback	Broken switchback conveying motor coil.	Check for continuity across the coil. If none, replace the switchback conveying motor.
conveying motor does not operate.	Poor contact of the switchback conveying motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
(2) The switchback eject	Broken switchback eject motor coil.	Check for continuity across the coil. If none, replace the switchback eject motor.
motor does not operate.	Poor contact of the switchback eject motor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
(3) The feedshift	Broken feedshift solenoid coil.	Check for continuity across the coil. If none, replace the feedshift solenoid.
solenoid does not operate.	Poor contact of the feedshift solenoid connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
(4) The press solenoide	Broken press solenoid coil.	Check for continuity across the coil. If none, replace the press solenoid.
does not operate.	Poor contact of the press solenoid connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.

Problem	Causes/check procedures	Corrective measures
(1) Paper jams.	Check if the contact between the switchback press pulley and switchback press roller is correct.	Check and remedy.
	Check if the contact between the switchback eject pulley and switchback eject roller is correct.	Check and remedy.
(2) Abnormal noise is heard.	Check if the switchback press pulley, switchback press roller and gears operate smoothly.	Grease the bushings and gears.
	Check if the switchback eject pulley, switchback eject roller and gears operate smoothly.	Grease the bushings and gears.

### 2-1-1 Construction of each section

The switchback unit consists of the parts shown in Figure 2-1-1 and performs switchback operation for switching the ejection side of paper when ejecting paper to the saddle finisher.

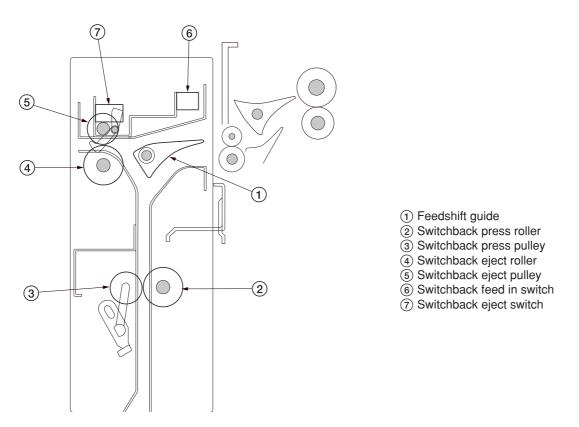


Figure 2-1-1 Switchback unit

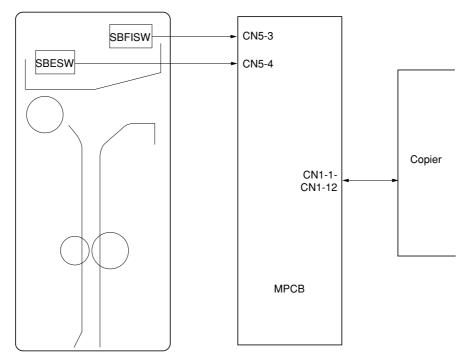


Figure 2-1-2 Switchback unit block diagram

#### (1) Paper switchback operation

Paper of which copying is complete is conveyed to the switchback unit and sent to the switchback section by the feedshift guide. In the switchback section, paper is conveyed by touching of the switchback press roller rotated by normal rotation of the switchback feed motor (SBFM), with the switchback press pulley activated by turning on the press solenoid (PRSOL). When a certain time (depending on the paper size) elapses, the switchback feed motor (SBFM) reverses the direction of rotation to reverse the rotation of the switchback press roller to switch the direction of paper conveyance.

Paper that has been switched back is conveyed to the saddle finisher by the switchback eject roller rotated by turning on the switchback eject motor (SBEM) and the switchback eject pulley. At this time, the second paper is conveyed to the switchback unit, the press solenoid (PRSOL) is turned off, the switchback press pulley separates from the switchback press roller, and the first paper and the second paper are interchanged in the switchback section.

(Depending on the copier model and the paper size, the press solenoid may not turn off and the switch press pulley may always touch the switchback press roller.)

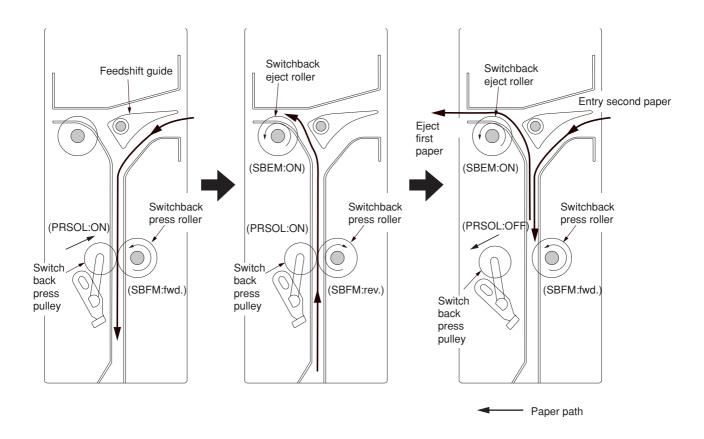


Figure 2-1-3

# 2-2-1 Electrical parts layout

(1) PCBs

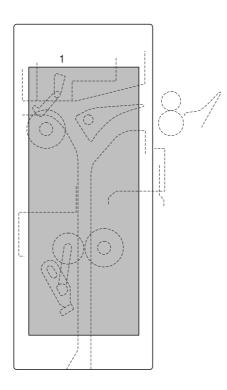


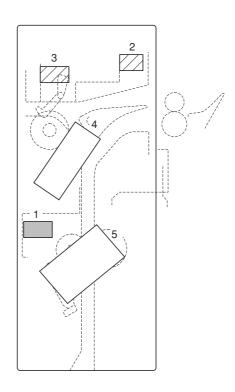


Figure 2-2-1 PCBs

1. Main PCB (MPCB) ...... Controls the electrical components.

#### 3CP

# (2) Switches and solenoids







1. Safty switch (SSW)	Breaks the safty circuit when the switchback unit is opened.
2. Switchback feed in switch (SBFISW)	Detects the presence of paper in the switchback unit.
3. Switchback eject switch (SBESW)	Detects a paper misfeed in the switchback unit.
4. Feedshift solenoid (FSSOL)	Operates the feedshift guide.
5. Press solenoid (PRSOL)	Operates the switchback press solenoid.

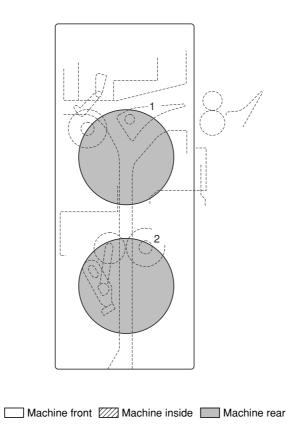


Figure 2-2-3 Motors

- Switchback eject motor (SBEM) ..... Drives the switchback eject roller.
   Switchback feed motor (SBFM) ..... Drives the switchback press roller.

### 2-3-1 Main PCB

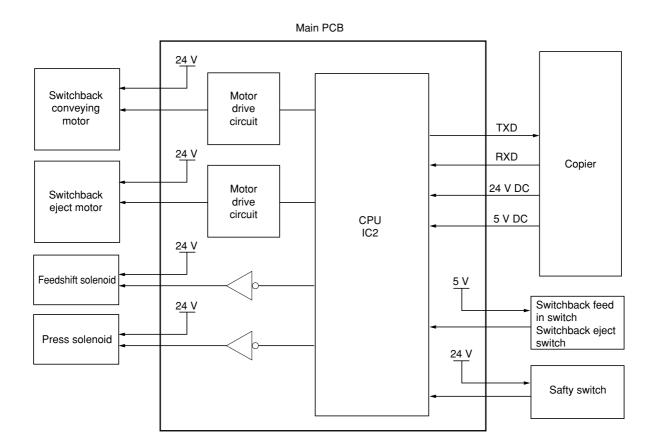
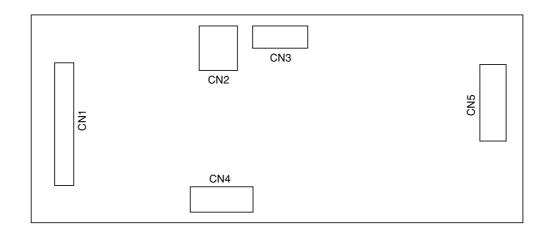


Figure 2-3-1 Main PCB block diagram

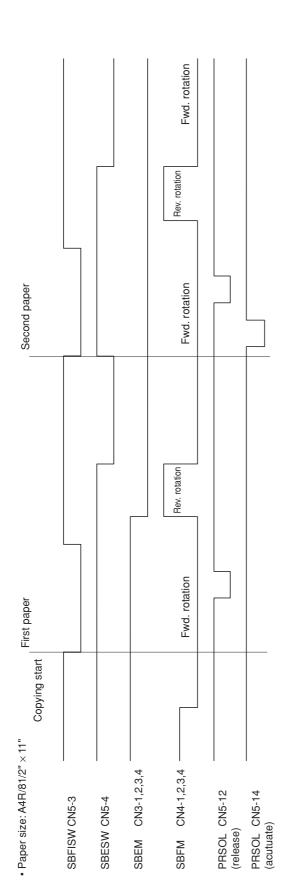
The main PCB (MPCB) consists mainly of the CPU IC2 and motor drive circuit. The CPU IC2 detects the condition of the switches and controls the motors and solenoids by serially communicating with the copier.

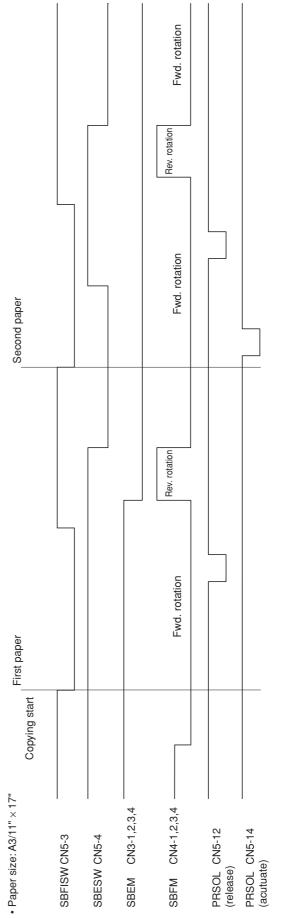




Terminals (CN) V		Voltage	Remarks
1-1	1-3	24 V DC	24 V DC supply, input
1-2	1-4	24 V DC	24 V DC supply, input
1-6	1-5	5 V DC	5 V DC supply, input
1-7	1-8	0/5 V DC (pulse)	Sirial signal TXD, output
1-9	1-10	0/5 V DC (pulse)	Sirial signal RXD, input
1-11	1-5	0/5 V DC	RESET signal, input
1-12	1-5	0/5 V DC	Switchback unit SET signal, output
2-1	1-3	24 V DC	24 V DC supply for SSW, output
2-3	1-3	0/24 V DC	SSW on/off, input
3-1	1-3	0/24 V DC (pulse)	SBEM coil energization pulse, output (A)
3-2	1-3	0/24 V DC (pulse)	SBEM coil energization pulse, output $(\overline{A})$
3-3	1-3	0/24 V DC (pulse)	SBEM coil energization pulse, output (B)
3-4	1-3	0/24 V DC (pulse)	SBEM coil energization pulse, output $(\overline{B})$
3-5	1-3	24 V DC	24 V DC supply for SBEM, output
4-1	1-3	0/24 V DC (pulse)	SBFM coil energization pulse, output (A)
4-2	1-3	0/24 V DC (pulse)	SBFM coil energization pulse, output $(\overline{A})$
4-3	1-3	0/24 V DC (pulse)	SBFM coil energization pulse, output (B)
4-4	1-3	0/24 V DC (pulse)	SBFM coil energization pulse, output $(\overline{B})$
4-5	1-3	24 V DC	24 V DC supply for SBFM, output
5-1	5-5	5 V DC	5 V DC supply for SBFISW, output
5-2	5-6	5 V DC	5 V DC supply for SBESW, output
5-3	5-5	0/5 V DC	SBFISW on/off, input
5-4	5-6	0/5 V DC	SBESW on/off, input
5-9	1-3	24 V DC	24 V DC supply for FSSOL, output
5-10	1-3	0/24 V DC	FSSOL on/off signal, output
5-11	1-3	24 V DC	24 V DC supply for PRSOL, output
5-12	1-3	0/24 V DC	PRSOL acutuate signal, output
5-14	1-3	0/24 V DC	PRSOL release signal, output

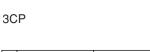


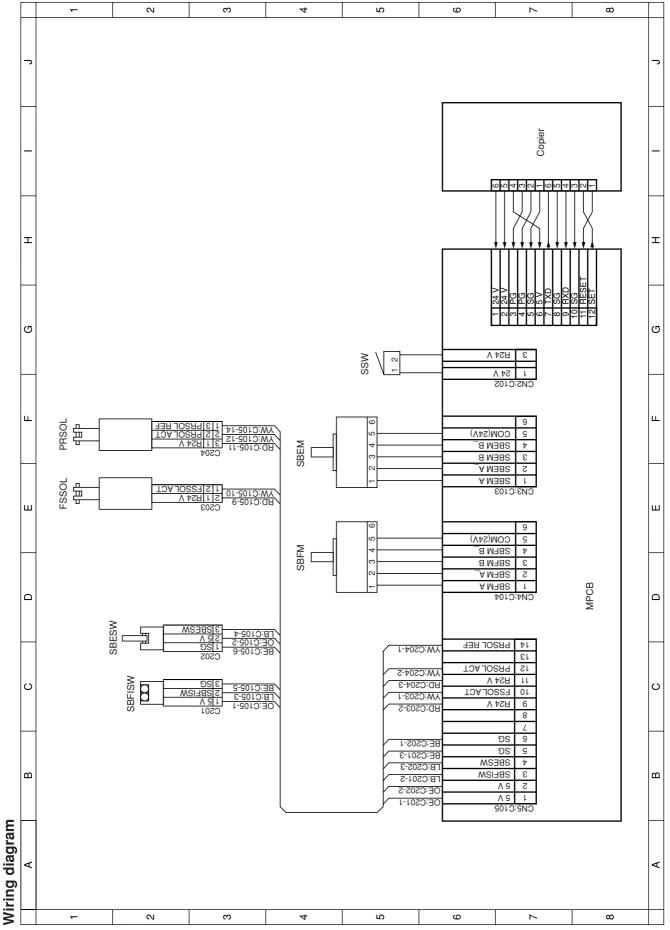






3CP







# **PF-75**

# CONTENTS

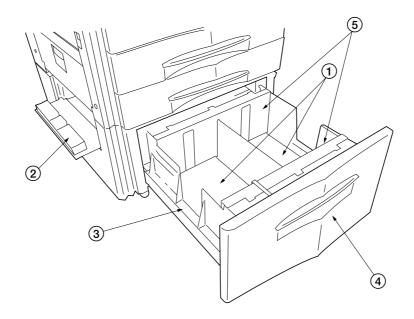
1-1	Spec	cifications	
	1-1-1	Specifications	. 1-1-1
	1-1-2	Parts names	. 1-1-2
	1-1-3	Machine cross section	. 1-1-3
	1-1-4	Drive system	. 1-1-4
1-2	Insta	Illation	
	1-2-1	Unpacking	1-2-1
		Installing the dehumidifier heaters (service part)	
1-3	Trou	bleshooting	
	1-3-1	Paper misfeed detection	1-3-1
		(1) Paper misfeed indication	. 1-3-1
		(2) Paper misfeed detection conditions	1-3-1
		(3) Paper misfeeds	. 1-3-3
	1-3-2	Self-diagnosis	1-3-5
		(1) Self-diagnostic function	1-3-5
		(2) Self-diagnostic codes	. 1-3-6
	1-3-3	Electrical problems	. 1-3-8
		(1) The large paper deck does not operate when the copier main switch is turned on	1-3-8
		(2) The deck paper conveying motor does not operate	1-3-8
		(3) Paper deck motor 1 does not operate	. 1-3-8
		(4) Paper deck motor 2 does not operate	. 1-3-8
		(5) Paper feed clutch 1 does not operate	. 1-3-8
		(6) Paper feed clutch 2 does not operate	. 1-3-9
		(7) The paper conveying clutch does not operate.	. 1-3-9
	1-3-4	Mechanical problems	
		(1) No primary paper feed	
		(2) Paper is fed askew.	
		(3) Multiple sheets of paper are fed at one time.	
		(4) Paper jams.	
		(5) Abnormal noise is heard.	1-3-10
1-4	Asse	embly and Disassembly	
	1-4-1	Precautions for assembly and disassembly	
		(1) Precautions	
	1-4-2	Paper feed section	
		(1) Detaching and refitting the upper and lower deck separation rollers	
		(2) Detaching and refitting the deck paper conveying unit assembly	
		(3) Detaching and refitting deck paper feed rollers 1 and 2	
		(4) Adjusting the position of the center adjuster (center line alignment)	
		(5) Adjusting the amount of slack.	. 1-4-5
2-1		nanical construction	
	2-1-1	Mechanical construction	. 2-1-1
2-2	Elec	trical Parts Layout	
		Electrical parts layout	2-2-1
2-3	Oper	ration of the PCBs	
-	•	Deck main PCB	2-3-1
		(1) Paper deck motor drive circuits	
		(2) Operating principle of reflective photosensors	
		PPSENS1, PPSENS2, PPSENS3 and PESENS	1-4-3

# 2-4 Appendixes

Timing chart No. 1	2-4-1
Timing chart No. 2	2-4-2
Wiring diagram	2-4-3

Paper	. Plain paper (75 – 80 g/m²)
Paper size	
Capacity	. 3000 sheets (1500 sheets $ imes$ 2)
Power source	. Electrically connected to the copier
Dimensions	. 585 (W) × 590 (D) × 315 (H) mm
	23 <sup>1</sup> / <sub>16</sub> " (W) × 23 <sup>1</sup> / <sub>4</sub> " (D) × 12 <sup>3</sup> / <sub>8</sub> " (H)
Weight	. 35 kg/77.2 lbs

## 1-1-2 Parts names





- Lifts
   Deck side cover
   Drawer
   Deck front cover
   Paper side guides

# 1-1-3 Machine cross section

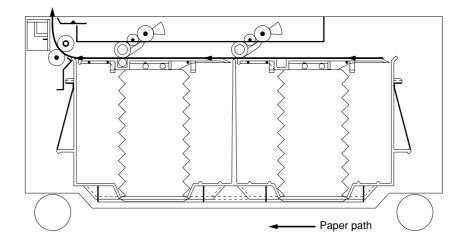
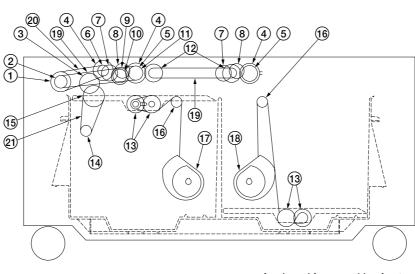


Figure 1-1-3 Machine cross section

#### 1-1-4 Drive system



As viewed from machine front

Figure 1-1-4

- Pulley 2M-40
   Pulley S3M-16
   Gear 0.8-35/1-20
   Gear 2.6
   Gear 0.8-23
   Pulley 2M-18
   Pickup roller gear 0.8-23
   Gear 0.9-26
   Gear 30
   Gear 0.8-24
- 1 Pulley 3M-18

12 Pulley 14, gear 0.8-32
13 Gear 1.0-24
14 Pulley S2M-18
15 Pulley 43, gear 20
16 Lift pulley
17 Left lift belt assembly
18 Right lift belt assembly
19 Belt S3M276
20 Belt 2M0950
21 Belt 2M0840

## 1-2-1 Unpacking

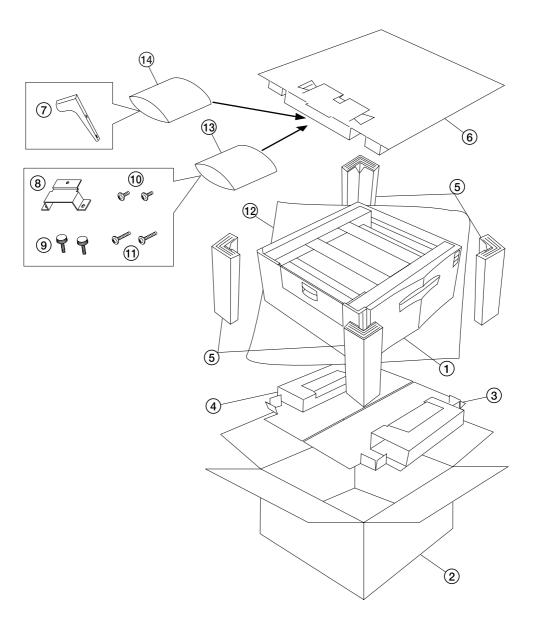


Figure 1-2-1

Large paper deck
 Outer case
 Lower front pad
 Lower rear pad
 Support
 Upper pad
 Stay

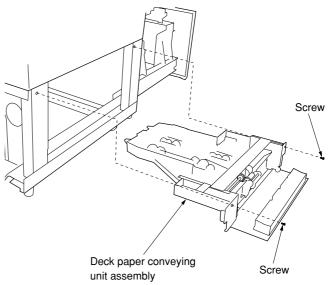
- (a) Retainer
  (b) Pins
  (c) Cross-head chromate binding screws, CVM4 × 06
  (c) Chrome TP screws, M4 × 16
  (c) Machine cover
  (c) Plastic bag
  (c) Plastic bag
  (c) Plastic bag

#### 1-2-2 Installing the dehumidifier heaters (service part)

Dehumidifier heater installation requires the following parts: Two (2) dehumidifier heaters (P/N 33960020): for 220 – 240 V specifications only Two (2) dehumidifier heaters (P/N 34860030): for 120 V specifications only Two (2) dehumidifier heater retainers (P/N 5A707690) Six (6) M4 × 6 IT tap-tight (S-tight) screws (P/N 37611570) Relay wire (P/N 5A707890) Ten (10) wire saddles (P/N M2109000)

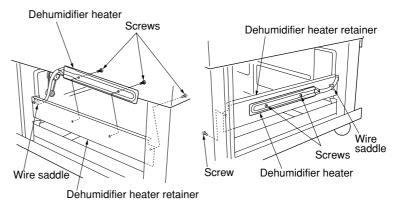
#### Procedure

- 1. Remove the two screws from each of the deck right cover and deck left cover and then the covers.
- 2. Remove the three screws holding the deck rear cover and then the cover.
- 3. Open the large paper deck.
- 4. Remove the two screws holding the deck paper conveying unit assembly and then the assembly.





- 5. Fit the dehumidifier heaters to the dehumidifier heater retainers using the two screws and wire saddle for each.
- 6. Fit the dehumidifier heater retainers to the left and right of the large paper deck using one screw for each.



Machine left

Machine right

Figure 1-2-3

7. Pull the dehumidifier heater cable out to the machine rear through the cable hole.

- 8. Detach the open connector from the connector of the main harness on the machine rear.
- Open connector Main harness

Figure 1-2-4

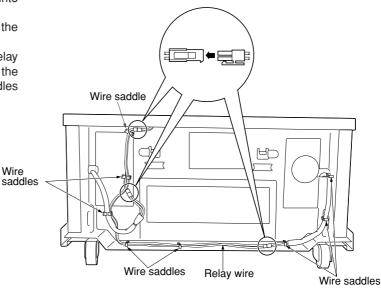


Figure 1-2-5

- 9. Insert the dehumidifier heater connectors into the relay wire connectors.
- 10. Insert the main harness connector into the relay wire connector.
- 11. Tidy up the dehumidifier heater cable and relay wire using the eight wire saddles and route the cable and wire while clipping the wire saddles into the holes in the rear frame.
- 12. Refit all removed parts.

#### 1-3-1 Paper misfeed detection

#### (1) Paper misfeed indication

When a paper jam occurs, the machine immediately stops operation. The operation unit of the copier shows a jam message and the jam location.

To reset the paper misfeed detection, open and close the deck side cover or the large paper deck to turn the side cover switch or the deck open/closed safety switch off and on.

#### (2) Paper misfeed detection conditions

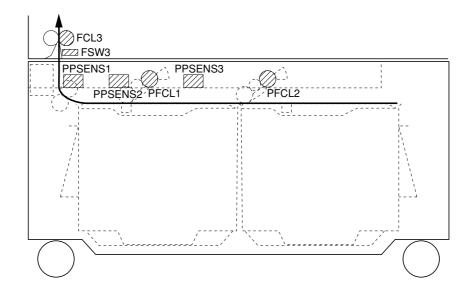
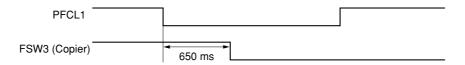


Figure 1-3-1 Large paper deck

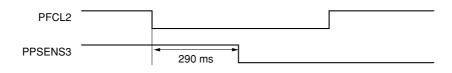
• No paper feed from large paper deck (jam code 12)

Feed switch 3 (FSW3) of the copier does not turn on within 650 ms of paper feed clutch 1 (PFCL1) turning on.





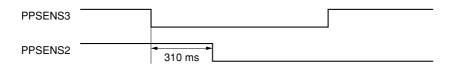
• Jam in large paper deck horizontal paper conveying section (jam code 15) Paper path sensor 3 (PPSENS3) does not turn on within 290 ms of paper feed clutch 2 (PFCL2) turning on.



Timing chart 1-3-2

• Jam in large paper deck horizontal paper conveying section (jam code 16)

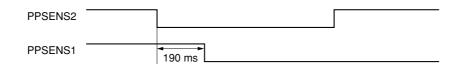
Paper path sensor 2 (PPSENS2) does not turn on within 310 ms of paper path sensor 3 (PPSENS3) turning on.



Timing chart 1-3-3

• Jam in large paper deck horizontal paper conveying section (jam code 17)

Paper path sensor 1 (PPSENS1) does not turn on within 190 ms of paper path sensor 2 (PPSENS2) turning on.



Timing chart 1-3-4

5FF

Problem	Causes/check procedures	Corrective measures
(1)	Paper is extremely curled.	Change the paper.
A paper jam in the paper feed section is indicated during copying (no paper feed from large pa- per deck). Jam code 12	Check if the upper or lower deck separation roller, pa- per feed roller 1or 2 is de- formed.	Check visually and replace any damaged rollers (see pages 1- 4-2, 3).
	Broken copier feed switch 3 actuator.	Check visually and replace feed switch 3 if the actuator is broken.
	Defective feed switch 3.	Run maintenance item U031 and turn feed switch 3 on and off manually. Replace feed switch 3 if indication of the correspond- ing switch on the operation panel is not displayed in reverse.
	Check if paper feed clutch 1 and 2 malfunctions.	Run maintenance item U247 and select paper feed clutch 1 or 2 on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with pa- per feed clutch 1 and 2.	Check. (see page 1-3-8, 9).
	Check if the deck feed clutch malfunctions.	Run maintenance item U247 and select the deck feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the deck feed clutch.	Check (see page 1-3-9).
(2) A paper jam in the paper feed section is indicated during copying (multiple sheets in paper feed section).	Check if the upper or lower deck separation roller is soiled with paper powder.	Check and clean with isopropyl alcohol if soiled.
(3) A paper jam in the	Paper in the large paper deck is extremely curled.	Change the paper.
paper feed section is indicated during copying (jam in	Check if the paper side guides are deformed.	Check visually and replace.
large paper deck horizontal paper conveying section). Jam code 15	Defective paper path sensor 3.	With 5 V DC present at CN6-12 on the deck main PCB, check if CN6-11 on the deck main PCB remains low when paper path sensor 3 is turned on and off. If it does, replace paper path sensor 3.
	Check if paper feed clutch 2 malfunctions.	Run maintenance item U247 and select paper feed clutch 2 on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with paper feed clutch 2.	Check (see page 1-3-9).

Problem	Causes/check procedures	Corrective measures
(4) A paper jam in the paper feed section is indicated during copying (jam in large paper deck	Paper in the large paper deck is extremely curled.	Change the paper.
	Check if the paper side guides are deformed.	Check visually and replace.
horizontal paper conveying section). Jam code 16	Defective paper path sensor 2.	With 5 V DC present at CN6-9 on the deck main PCB, check if CN6-8 on the deck main PCB remains low when paper path sensor 2 is turned on and off. If it does, replace paper path sensor 2.
	Check if paper feed clutch 1 malfunctions.	Run maintenance item U247 and select paper feed clutch 1 on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with pa- per feed clutch 1.	Check (see page 1-3-8).
(5) A paper jam in the	Paper in the large paper deck is extremely curled.	Change the paper.
paper feed section is indicated during copying (jam in large paper deck	Check if the paper side guides are deformed.	Check visually and replace.
horizontal paper conveying section). Jam code 17	Defective paper path sensor 1.	With 5 V DC present at CN6-6 on the deck main PCB, check if CN6-5 on the deck main PCB remains low when paper path sensor 1 is turned on and off. If it does, replace paper path sensor 1.
	Check if the deck feed clutch malfunctions.	Run maintenance item U247 and select the deck feed clutch on the operation panel to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the deck feed clutch.	Check (see page 1-3-9).

## 1-3-2 Self-diagnosis

(1) Self-diagnostic function When a problem is detected in the large paper deck, copying is disabled and the problem displayed on the operation unit of the copier as a code consisting of "C" followed by a number between 0420 and 2600, indicating the nature of the problem. After removing the problem, the self-diagnostic function can be reset by turning the deck open/closed safety switch off

and back on.

## (2) Self diagnostic codes

Code	Contents	Remarks           Causes         Check procedures/corrective measurements	
Code	Contents		
C0420	Communication problem Communication errors from the com- munication microcomputer on the copier main PCB: No communication: there is no reply after 3 retries.	Poor contact of the connector ter- minals.	Check the connection of connectors CN3 on the copier main PCB and CN1 on the deck main PCB, and the continuity across the connector terminals. Remedy or re- place if necessary.
	Abnormal communication: a communi- cation error (parity or checksum error) is detected five times in succession.	Defective copier main PCB.	Replace the copier main PCB and check for correct operation.
		Defective deck main PCB.	Replace the deck main PCB and check for correct operation.
C1100	Paper deck motor 1 problem A motor over-current signal is detected continuously for 1 s or longer.	Paper deck motor 1 does not rotate correctly (the mo- tor is overloaded).	Check the gears and remedy if necessary.
		Paper deck motor 1 connector makes poor con- tact.	Reinsert the connector. Also check for con tinuity within the connector cable. If none, repair or replace the cable.
	Paper deck motor 2 problem A motor over-current signal is detected continuously for 1 s or longer.	Paper deck motor 2 does not rotate correctly (the mo- tor is overloaded).	Check the gears and remedy if necessary.
		Paper deck motor 2 connector makes poor contact.	Reinsert the connector. Also check for con tinuity within the connector cable. If none, repair or replace the cable.
C1120	<b>1120</b> Deck right lift position problem Deck level switch 2 does not turn on within 30 s of paper deck motor 2 turn- ing on.	Defective deck level switch 2.	Check if CN5-4 on the desk main PCB goes low when desk level switch 2 is turned off. If not, replace desk level switch 2.
		Poor contact of deck level switch 2 connector termi- nals.	Reinsert the connector. Also check for con tinuity within the connector cable. If none, repair or replace the cable.
		Defective paper deck motor 2.	Check for continuity across the coil. If none, replace paper desk motor 2.
		Poor contact of paper deck motor 2 connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.
		The deck right lift does not rise properly.	Check the gears and belts, and remedy if necessary.
C1130	<b>Deck left lift position problem</b> Deck level switch 2 does not turn on within 30 s of paper deck motor 2 turn- ing on.	Defective deck level switch 1.	Check if CN5-7 on the desk main PCB goes low when desk level switch 1 is turned off. If not, replace desk level switch 1.
		Poor contact of deck level switch 1 connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.

Code	Contents	Remarks		
Code	Contents	Causes	Check procedures/corrective measures	
C1130	<b>Deck left lift position problem</b> Deck level switch 2 does not turn on within 30 s of paper deck motor 2 turn-	Defective paper deck motor 1.	Check for continuity across the coil. If none, replace paper desk motor 1.	
	ing on.	Poor contact of paper deck motor 1 connector termi- nals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, repair or replace the cable.	
		The deck left lift does not rise properly.	Check the gears and belts, and remedy if necessary.	
C1160	Sequence problem	Operation start request is sent from the copier to the large paper deck while paper feed is disabled.	Turn the power off and back on (reset re- quest is sent from the copier to the large paper deck to cancel operation start request).	
		Paper feed re- quest is sent from the copier to the large paper deck before operation start request.	Turn the power off and back on (reset re- quest is sent from the copier to the large paper deck to cancel operation start re- quest).	
C1170	Large paper deck incorrect type problem	Deck for the printer is installed.	Replace the deck fot the copier.	
C2600	Deck paper conveying motor prob- lem No pulse is input within 500 ms of the start-up. No pulse is input within 100 ms of the previous pulse input.	Defective deck conveying motor PCB.	Replace the deck conveying motor PCB and check for correct operation.	
		Deck conveying motor does not rotate correctly (the motor is over- loaded).	Check the gears and remedy if necessary.	
		Poor contact in the deck convey- ing motor connec- tor terminals.	Reinsert the connector. Also check for con- tinuity within the connector cable. If none, remedy or replace the cable.	

## 1-3-3 Electrical problems

Problem	Causes	Check procedures/corrective measures
(1) The large paper deck does not oper- ate when the copier main switch is turned on.	Incorrect connection with the copier.	Check the connector.
(2) The deck paper conveying motor does not operate.	Poor contact of the deck paper conveying motor connector terminals.	Check for continuity across the connector terminals. If none, replace them.
does not operate.	The deck paper conveying motor drive system overloaded.	
	Defective deck paper con- veying motor.	Check if the deck paper conveying motor is operated in mainte- nance item U247 while the motor drive clock signal is present at CN2-2 on the deck main PCB. If not, replace the deck paper conveying motor.
	Defective deck main PCB.	Check if the motor drive clock signal is present at CN2-2 on the deck main PCB when the deck paper conveying motor is oper- ated in maintenance item U247. If not, replace the deck main PCB.
(3) Paper deck motor 1 does not operate.	Poor contact of the paper deck motor 1 connector ter- minals.	Check for continuity across the connector terminals. If none, replace them.
	Broken paper deck motor 1 coil.	Check for continuity across the coil. If none, replace paper deck motor 1.
	Defective deck main PCB.	Check if CN7-13 on the deck main PCB goes low right after the drawer is installed. If not, replace the deck main PCB.
(4) Paper deck motor 2 does not operate.	Poor contact of the paper deck motor 2 connector ter- minals.	Check for continuity across the connector terminals. If none, replace them.
	Broken paper deck motor 2 coil.	Check for continuity across the coil. If none, replace paper deck motor 2.
	Defective deck main PCB.	Check if CN7-6 on the deck main PCB goes low right after the drawer is installed. If not, replace the deck main PCB.
(5) Paper feed clutch 1 does not operate.	Poor contact of the paper feed clutch 1 connector terminals.	Check for continuity across the connector terminals. If none, replace them.
	Broken paper feed clutch 1 coil.	Check for continuity across the coil. If none, replace paper feed clutch 1.
	Defective deck main PCB.	Check if CN4-3 on the deck main PCB goes low when paper feed clutch 1 is operated in maintenance item U247. If not, re- place the deck main PCB.

Problem	Causes	Check procedures/corrective measures
(6) Paper feed clutch 2 does not operate.	Poor contact of the paper feed clutch 2 connector ter- minals.	Check for continuity across the connector terminals. If none, replace them.
	Broken paper feed clutch 2 coil.	Check for continuity across the coil. If none, replace paper feed clutch 2.
	Defective deck main PCB.	Check if CN4-1 on the deck main PCB goes low when paper feed clutch 2 is operated in maintenance item U247. If not, re- place the deck main PCB.
(7) The paper convey- ing clutch does not	Poor contact of the paper conveying clutch connector terminals.	Check for continuity across the connector terminals. If none, replace them.
operate.	Broken paper conveying clutch coil.	Check for continuity across the coil. If none, replace the paper conveying clutch.
	Defective deck main PCB.	Conveying clutch. Check if CN4-5 on the deck main PCB goes low when the pa- per conveying clutch is operated in maintenance item U247. If not, replace the deck main PCB.

## 1-3-4 Mechanical problems

Problem	Causes/check procedures	Corrective measures
(1) No primary paper feed.	Check if the upper or lower deck separation roller is soiled with paper powder.	Clean with isopropyl alcohol.
	Check if deck paper feed roller 1 or 2 is soiled with paper powder.	Clean with isopropyl alcohol.
	Check if the upper or lower deck separation roller is worn or deformed.	Replace (see page 1-4-2).
	Check if deck paper feed roller 1 or 2 is worn or deformed.	Replace (see page 1-4-3).
	Check if paper feed clutch 1, 2 or the paper conveying clutch malfunctions.	Remedy or replace.
(2) Paper is fed askew.	Check if the upper or lower deck separation roller is worn or deformed.	Replace (see page 1-4-2).
	Check if deck paper feed roller 1 or 2 is worn or deformed.	Replace (see page 1-4-3).
	Check if the paper side guides are de- formed.	
(3) Multiple sheets of paper	Check if the paper is excessively curled.	Change the paper.
Multiple sheets of paper are fed at one time.	Paper is not loaded correctly.	Correct.
	Check if the upper or lower deck separation roller is worn or deformed.	Replace (see page 1-4-2).
(4) Paper jams.	Check if the paper is excessively curled.	Change the paper.
	Check if the paper side guides are de- formed.	Remedy or replace.
(5) Abnormal paise is	Check if rollers and gears operate smoothly.	Grease the bushings and gears.
Abnormal noise is heard.	Check for any abnormality with motors and clutches.	Replace.
	Check for any drive belt out of place.	Remedy if necessary.

#### 1-4-1 Precautions for assembly and disassembly

#### (1) Precautions

- Be sure to turn the main switch off and disconnect the power plug before starting disassembly.
- When handling PCBs, do not touch connectors with bare hands or damage the board.
- Do not touch PCBs containing ICs with bare hands or any object prone to static charge.
- Use the following testers when measuring voltages:

Hioki 3200 Sanwa MD-180C Sanwa YX-360TR Beckman TECH300 Beckman DM45 Beckman 330 (capable of measuring RMS values) Beckman 0300 (capable of measuring RMS values) Beckman DM850 (capable of measuring RMS values) Fluke 8060A (capable of measuring RMS values) Arlec DMM1050 Arlec YF1030C

## 1-4-2 Paper feed section

#### (1) Detaching and refitting the upper and lower deck separation rollers

Clean or replace the upper and lower deck separation rollers as follows.

#### Procedure

- 1. Open the deck side cover.
- 2. Remove stop ring 1.
- 3. Remove the shaft.
- 4. Remove the lower deck separation roller assembly.
- 5. Remove stop ring 2 securing the lower deck separation roller and then the roller.
- 6. Remove stop ring 3 securing the upper deck separation roller and then the roller.
- 7. Clean or replace the upper and lower deck separation rollers.
- 8. Refit all removed parts.

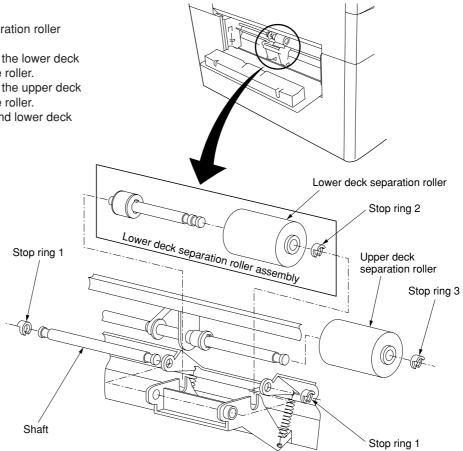


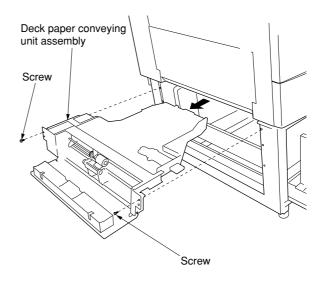
Figure 1-4-1 Detaching and refitting the upper and lower deck separation rollers

#### (2) Detaching and refitting the deck paper conveying unit assembly

Replace the desk upper or lower paper width switches as follows.

#### Procedure

- 1. Open the drawer.
- 2. Remove the left cover.
- 3. Remove the two screws holding the deck paper conveying unit assembly and then the assembly.



## Figure 1-4-2 Detaching and refitting the deck paper conveying unit assembly

#### (3) Detaching and refitting deck paper feed rollers 1 and 2

Clean or replace paper feed rollers 1 and 2 as follows.

#### Procedure

- 1. Turn the deck paper conveying unit over.
- 2. Remove the stop ring while lifting the deck
- paper feed roller section. 3. Pull out the shifting shaft and then deck paper
- feed rollers 1 and 2.
- 4. Clean or replace deck paper feed rollers 1 and 2.
- 5. Refit all removed parts.

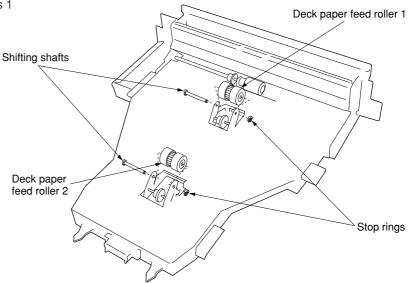


Figure 1-4-3 Detaching and refitting deck paper feed rollers 1 and 2

#### (4) Adjusting the position of the center adjuster (center line alignment)

Perform the following adjustment if the center lines of the copy image and the copy paper are misaligned.

#### Procedure

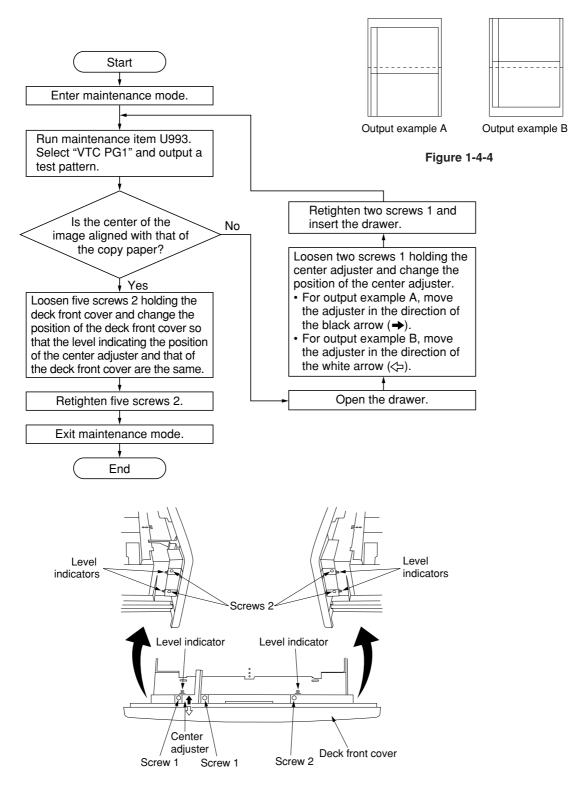
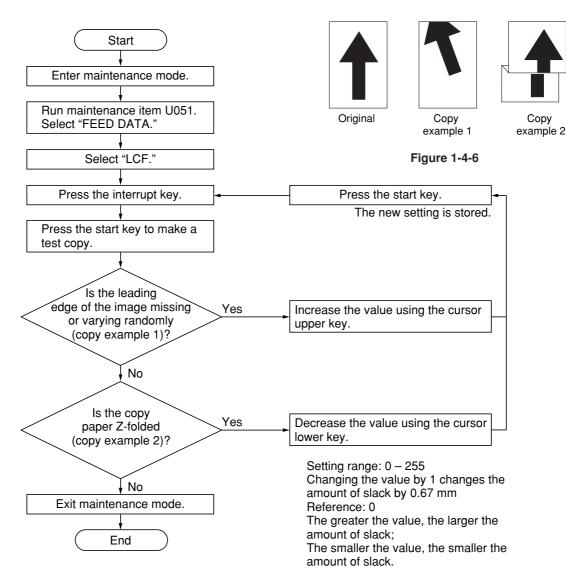


Figure 1-4-5 Adjusting the position of the center adjuster

#### (5) Adjusting the amount of slack

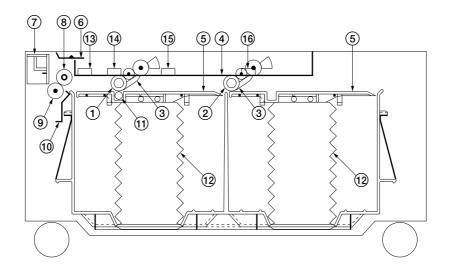
Perform the following adjustment if the leading edge of the copy image is missing or varies randomly, or if the copy paper is Z-folded.

#### Procedure



#### 2-1-1 Mechanical construction

The large paper deck consists mainly of the left and right cassettes and separation section. The left cassette paper feed section sends paper from the lift to the upper and lower deck separation rollers. When the left cassette becomes empty, the right cassette paper feed section conveys paper onto the lift of the left cassette. The upper and lower deck separation rollers in the separation section convey paper received from the left cassette paper feed section into the copier, preventing multiple sheets from being fed at one time.





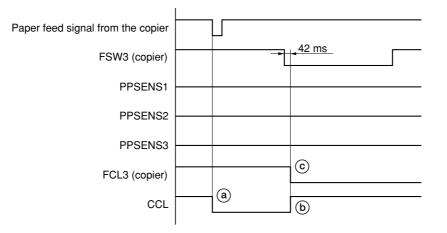
- (1) Deck paper feed roller 1
- 2 Deck paper feed roller 2
- ③ Pickup arm
  ④ Paper conveying base
- 5 Lift
- 6 Paper guide U
- (7) Deck side cover
- (8) Upper deck separation roller
- (9) Lower deck separation roller
- 1 Paper guide D
- (1) Guide pulley
- (12) Air damper
- (13) Paper path sensor 1 (PPSENS1)
- (1) Paper path sensor 2 (PPSENS2)
- (15) Paper path sensor 3 (PPSENS3)
- (i) Paper empty sensor (PESENS)

#### Left cassette paper feed

As the paper conveying clutch (CCL) turns on, the drive is transmitted to the upper and lower deck separation rollers, starting paper feed from the left cassette. The upper and lower deck separation rollers ensure that the paper is fed one sheet at a time and that it is fed into the copier correctly.

To prevent multiple sheets from being fed, there is a torque limiter on the lower deck separation roller.

• When the left cassette is empty, its lift serves as a guide for the paper being conveyed from the right cassette lift.



#### Timing chart 2-1-1 Left cassette paper feed

- (a) At the same time as the paper feed signal from the copier turns on, the paper conveying clutch (CCL) turns on to start paper feed.
- (b) 42 ms after the leading edge of the paper turns copier feed switch 3 (FSW3) on, the paper conveying clutch (CCL) turns off.
- © 42 ms after copier feed switch 3 (FSW3) has turned on, copier feed clutch 3 (FCL3) turns on to feed the paper to complete paper feed from the left cassette.

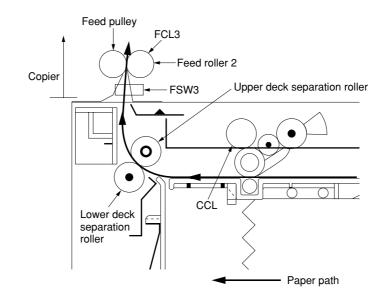


Figure 2-1-2 Left cassette paper feed section

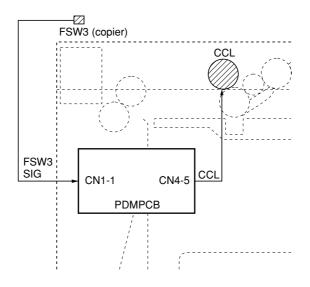
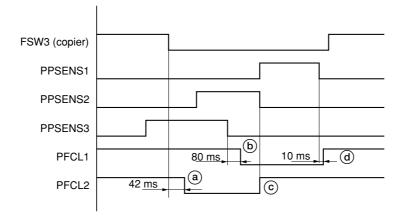


Figure 2-1-3 Left cassette paper feed section block diagram

#### Right cassette paper feed

As the last sheet in the left cassette is fed, paper feed clutch 2 (PFCL2) and paper feed clutch 1 (PFCL1) turn on for paper feed from the right cassette. Deck paper feed rollers 1 and 2 start to rotate to convey paper from the right cassette onto the left cassette lift.





- (a) 42 ms after the last paper from the left cassette has turned copier feed switch 3 (FSW3) on, paper feed clutch 2 (PFCL2) turns on to start paper feed.
- (b) 80 ms after the leading edge of the paper from the right cassette has turned paper path sensor 3 (PPSENS3) on, paper feed clutch 1 (PFCL1) turns on.
- ⓒ At the same time as the leading edge of the paper from the right cassette turns paper path sensor 2 (PPSENS2) on, paper feed clutch 2 (PFCL2) turns off.
- (d) 10 ms after the leading edge of the paper from the right cassette turns paper path sensor 1 (PPSENS1) on, paper feed clutch 1 (PFCL1) turns off and paper stops in the left cassette to complete paper feed from the right cassette.

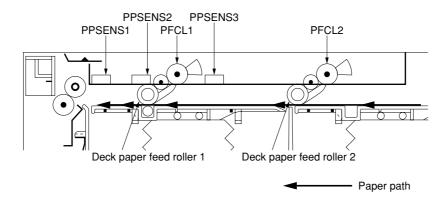


Figure 2-1-4 Right cassette paper feed section

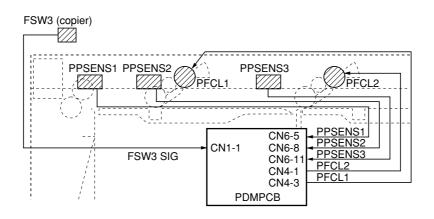


Figure 2-1-5 Right cassette paper feed section block diagram

#### Raising and lowering the lifts

The following is a description of the right cassette lift operating mechanism. The left cassette lift operates in the same manner.

Paper deck motor 2 (PDM2) drives the right lift belt assembly that winches the belt up and hence raises the lift until it is stopped by deck level switch 2 (DLSW2).

When paper is loaded on the lift and the deck is closed, the lift is raised until deck level switch 2 (DLSW2) turns on. When desk level switch 2 (DLSW2) is turned off as the paper on the lift is used, paper deck motor 2 (PDM2) starts to raise the lift until the switch turns on.

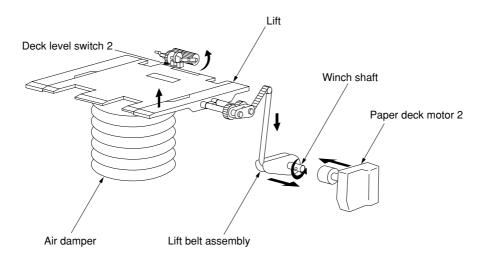


Figure 2-1-6 Raising and lowering the lift

When the deck is opened for removing a jammed paper or other purposes, the winch shaft is released from its holder on paper deck motor 2 (PDM2), allowing the lift to descend under its own weight. The air damper buffers the impact of the descending lift.

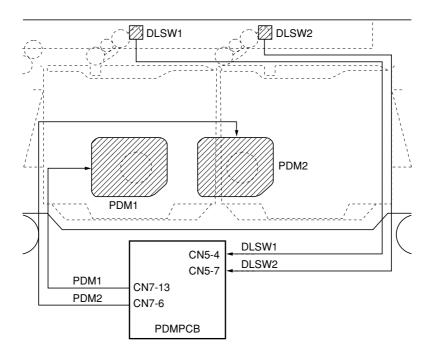


Figure 2-1-7 Lift block diagram

The lift rises as paper in the deck is used. When the remaining number of sheets in either right or left cassette reduces to around 100 to 250 sheets, the projection on the lift belt assembly pushes against the sensor lever which turns the relevant paper level detection sensor 1 or 2 (PLDSENS1/2) on.

When both paper level detection sensors 1 and 2 (PLDSENS1, 2) have turned on, the message "Low on paper." is shown on the copier message display. This message is not shown when only one of them is on.

As more copies are made with the message on, paper path sensors 1, 2 and 3 (PPSENS1, 2, 3) or the paper empty sensor (PESENS) start to detect absence of paper, and the message "Place paper in deck." is shown.

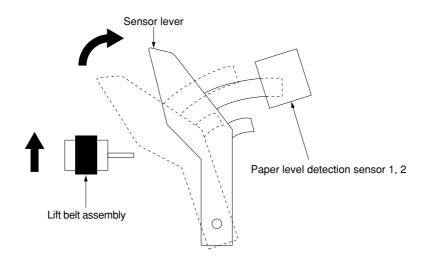


Figure 2-1-7 Detecting the paper level

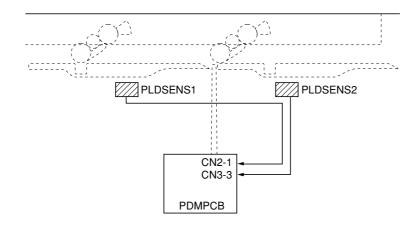


Figure 2-1-8 Paper level detection system block diagram

## 2-2-1 Electrical parts layout

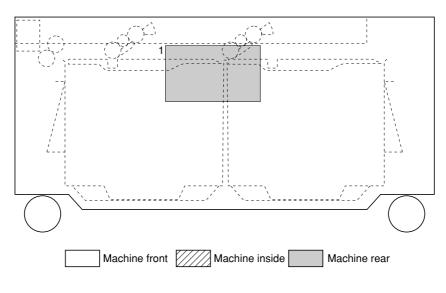


Figure 2-2-1 PCBs

1. Deck main PCB (PDMPCB) ...... Controls electrical components and communications with the copier.

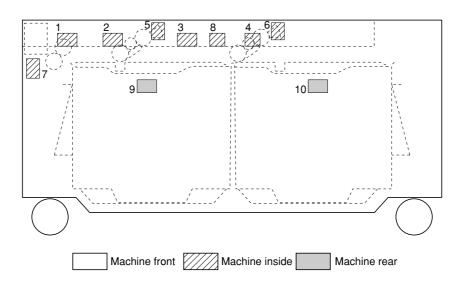


Figure 2-2-2 Switches and sensors

- 1. Paper path sensor 1 (PPSENS1) ...... Detect paper jams and the absence of paper on the lifts.
- 2. Paper path sensor 2 (PPSENS2) ...... Detect paper jams and the absence of paper on the lifts.
- 3. Paper path sensor 3 (PPSENS3) ...... Detect paper jams and the absence of paper on the lifts.
- 4. Paper empty sensor (PESENS) ...... Detects the absence of paper in the right cassette.
- 5. Deck level switch 1 (DLSW1) ..... Detects the left cassette lift in the home position.
- 6. Deck level switch 2 (DLSW2) ...... Detects the right cassette lift in the home position.
- 7. Side cover switch (SCSW) ...... Detects if the deck side cover is open or closed.
- 8. Deck open/closed safety switch (DOSSW) ...... Detects if the deck is open or closed.
- 9. Paper level detection sensor 1 (PLDSENS1) .... Detects the paper level in the left cassette.
- 10. Paper level detection sensor 2 (PLDSENS2) .... Detects the paper level in the right cassette.

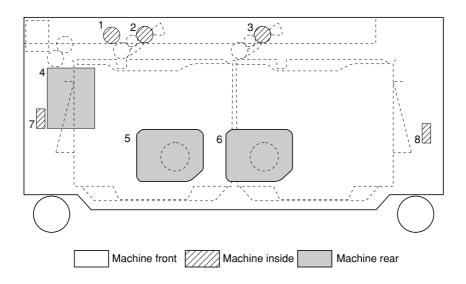


Figure 2-2-3 Other electrical components

- 1. Paper conveying clutch (CCL) ...... Regulates drive transmission to the upper and lower deck separation rollers.
- 3. Paper feed clutch 2 (PFCL2)...... Regulates drive transmission to deck paper feed roller 2.
- 4. Deck paper conveying motor (CM) ..... Drives the large paper deck.
- 5. Paper deck motor 1 (PDM1) ...... Raises the left cassette lift.
- 6. Paper deck motor 2 (PDM2) ...... Raises the right cassette lift.
- 7. Dehumidifier heater 1\* (DH1)..... Dehumidifies paper in the left cassette.
- 8. Dehumidifier heater 2\* (DH2)..... Dehumidifies paper in the right cassette.

\* Service part.

### 2-3-1 Deck main PCB

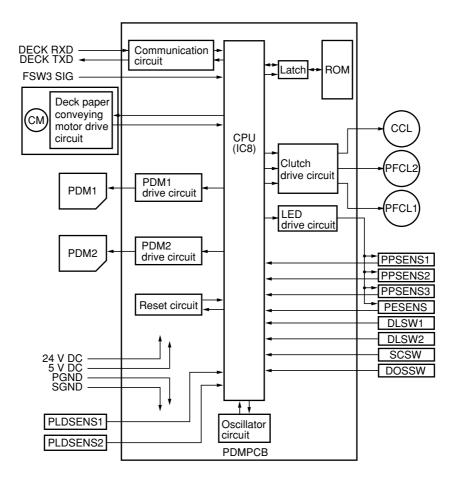


Figure 2-3-1 Deck main PCB block diagram

The deck main PCB (PDMPCB) consists of the CPU IC8, which serially communicates with the copier main PCB (MPCB); the deck paper conveying motor drive circuit; the paper deck motor drive circuits; the clutch drive circuit; the reset circuit; and the LED drive circuit. It controls the entire large paper deck.

#### (1) Paper deck motor drive circuits

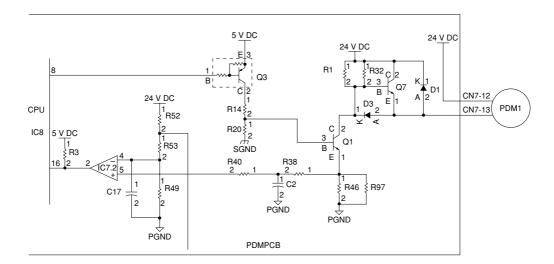


Figure 2-3-2 Paper deck motor 1 drive circuit

The following is a description of the paper deck motor 1 drive circuit. Paper deck motors 1 and 2 are identical.

When pin 8 of the CPU IC8 goes low, transistor Q1 is turned on causing paper deck motor 1 (PDM1) to rotate. When transistor Q1 is turned off, paper deck motor 1 (PDM1) stops. A brake circuit ensures the prompt stopping of the motor as follows.

When transistor Q1 turns off, transistor Q7 turns on, supplying 24 V DC to CN7-13 thereby preventing paper deck motor 1 (PDM1) from rotating further under momentum.

To prevent the cassette lift from being raised past its limit, an overcurrent lock detection circuit checks for the overcurrent that would occur when paper deck motor 1 (PDM1) locks. The current from paper deck motor 1 (PDM1) into transistor Q1 is converted to a voltage by resistor R46. This voltage is input to pin 5 of comparator IC7.2. If this voltage is higher than the reference at pin 4, 5 V DC is input to pin 16 of CPU IC8. If it is lower, 0 V is input to pin 16. Overcurrent of paper deck motor 1 (PDM1) causes the voltage at pin 5 of IC7.2 to become higher than that at pin 4. This generates 5 V DC at pin 16 of CPU IC8, which detects overcurrent. If overcurrent lasts more than 1 s, paper deck motor 1 (PDM1) failure is determined, and pin 8 of CPU IC8 outputs 5 V DC, turning paper deck motor 1 (PDM1) off.

#### (2) Operating principle of reflective photosensors PPSENS1, PPSENS2, PPSENS3 and PESENS

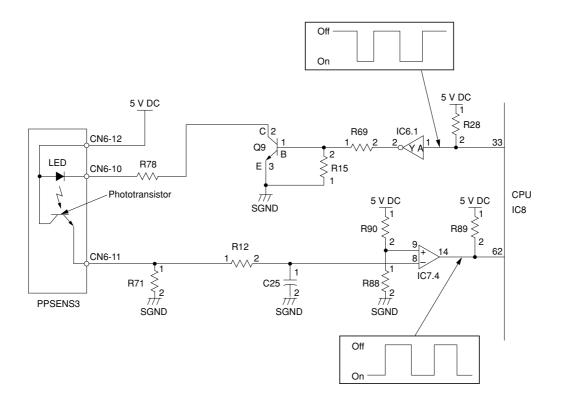


Figure 2-3-3 Reflective photosensor (PPSENS3) circuit

The following is the operating principle of paper path sensor 3 (PPSENS3). Paper path sensors 1 and 2 (PPSENS1, PPSENS2) and the paper empty sensor (PESENS) operate in the same manner.

A pulsating signal from pin 33 of the CPU IC8 turns Q9 on and off, causing the LED on the sensor PCB to flash. When the flashing LED light reflects on the paper, the phototransistor turns on and off. The on/off signal is then inverted by IC7.4 and the paper presence signal (pulse) is input at pin 62 of the CPU IC8.

If there is no paper, the phototransistor remains off and 5 V DC is input at pin 62 of the CPU IC8.

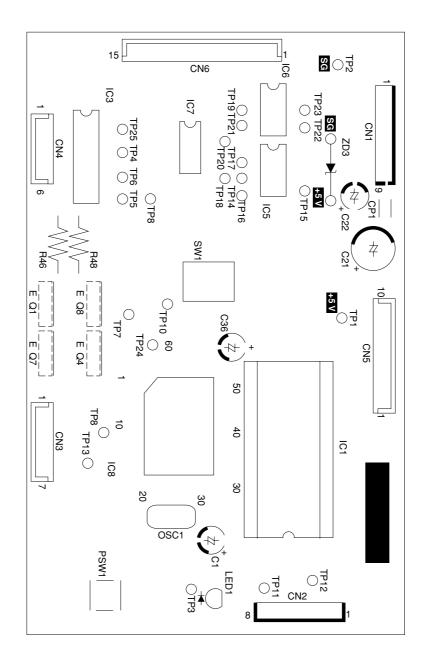


Figure 2-3-4

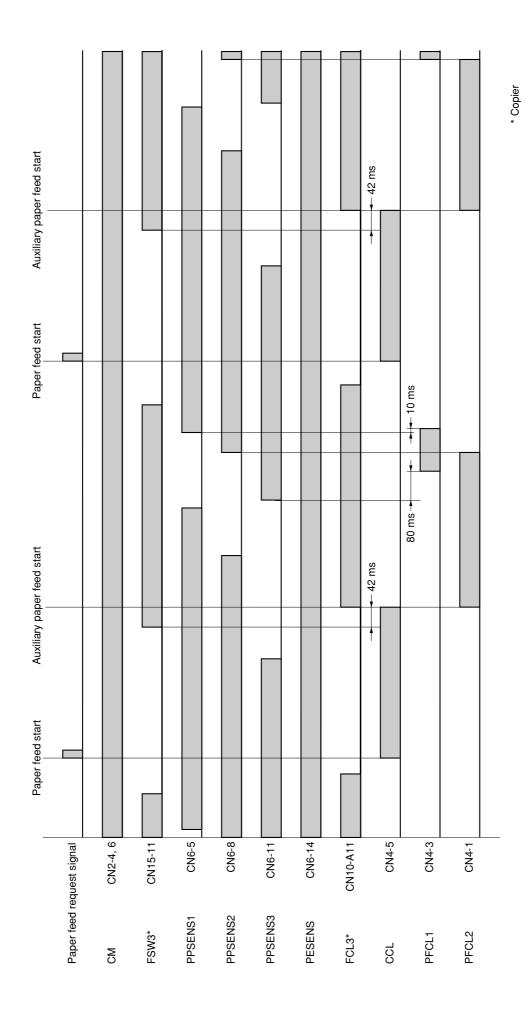
Termina	als (CN)	Voltage	Remarks
1-1	1-2	0/5 V DC	FSW3 on/off from the copier, input
1-3	1-2	0/5 V DC (pulse)	Serial communication signal to the copier, input
1-5	1-4	0/5 V DC (pulse)	Serial communication signal to the copier, output
1-6	1-4	0/5 V DC	Reset signal from the copier, input
1-7	1-8	5 V DC	5 V DC supply, input
1-10	1-9	24 V DC	24 V DC supply, input
2-1	2-2	0/5 V DC	PLDSENS1 on/off, input
2-3	2-2	5 V DC	5 V DC supply for PLDSENS1, output
2-5	2-4	24 V DC	24 V DC supply for CM, output
2-6	2-4	0/24 V DC	CM on/off, output
2-7	2-4	0/5 V DC (pulse)	Lock signal to CM, output
3-1	3-2	5 V DC	5 V DC supply for PLDSENS1, output
3-3	3-2	0/5 V DC	PLDSENS2 on/off, input
4-1	2-4	0/24 V DC	PFCL2 on/off, output
4-2	2-4	24 V DC	24 V DC supply for PFCL2, output
4-3	2-4	0/24 V DC	PFCL1 on/off, output
4-4	2-4	24 V DC	24 V DC supply for PFCL1, output
4-5	2-4	0/24 V DC	CCL on/off, output
4-6	2-4	24 V DC	24 V DC supply for CCL, output
5-1	5-2	5/0 V DC	DOSW on/off, input
5-3	5-2	5 V DC	5 V DC supply for DOSW, output
5-4	5-5	0/5 V DC	DLSW1 on/off, input
5-6	5-5	5 V DC	5 V DC supply for DLSW1, output
5-7	5-8	0/5 V DC	DLSW2 on/off, input
5-9	5-8	5 V DC	5 V DC supply for DLSW2, output
6-1	6-2	5/0 V DC	SCSW on/off, input
6-3	6-2	5 V DC	5 V DC supply for SCSW, output
6-4 6-5	6-2 6-2	5/4 V DC (pulse)	Clock signal to PPSENS1, output PPSENS1 on/off, input
6-6	6-2 6-2	5/0 V DC (pulse)/0 V 5 V DC	5 V DC supply for PPSENS1, output
6-7	6-2	5/4 V DC (pulse)	Clock signal to PPSENS2, output
6-8	6-2	5/0 V DC (pulse)/0 V	PPSENS2 on/off, input
6-9	6-2	5 V DC	5 V DC supply for PPSENS2, output
6-10	6-2	5/4 V DC (pulse)	Clock signal to PPSENS3, output
6-11	6-2	5/0 V DC (pulse)/0 V	PPSENS3 on/off, input
6-12	6-2	5 V DC	5 V DC supply for PPSENS3, output
6-13	6-2	5/4 V DC (pulse)/	Clock signal to PESENS, output
6-14	6-2	5/0 V DC (pulse)/0 V	PESENS on/off, input
6-15	6-2	5 V DC	5 V DC supply for PESENS, output
7-1	7-2	0/5 V DC	Paper level detection switch on/off, input
7-3	7-2	0/5 V DC	Paper level detection switch on/off, input
7-5	2-4	24 V DC	24 V DC supply for PDM2, output
7-6	2-4	0/24 V DC	PDM2 on/off, output
7-8	7-9	0/5 V DC	Paper level detection switch on/off, input
7-10	7-9	0/5 V DC	Paper level detection switch on/off, input
7-12	2-4	24 V DC	24 V DC supply for PDM1, output
7-13	2-4	0/24 V DC	PDM1 on/off, output

Auxiliary paper feed start - 42 ms ł Paper feed start Auxiliary paper feed start ← 42 ms ł Paper feed start CN2-4, 6 CN15-11 CN6-5 CN6-14 CN6-8 CN6-11 CN4-5 Paper feed request signal CN10-A11 **PPSENS3 PPSENS2 PPSENS1** PESENS FSW3\* FCL3\* CCL СM

Timing chart No. 1 Paper feed from large paper deck left cassette

\* Copier

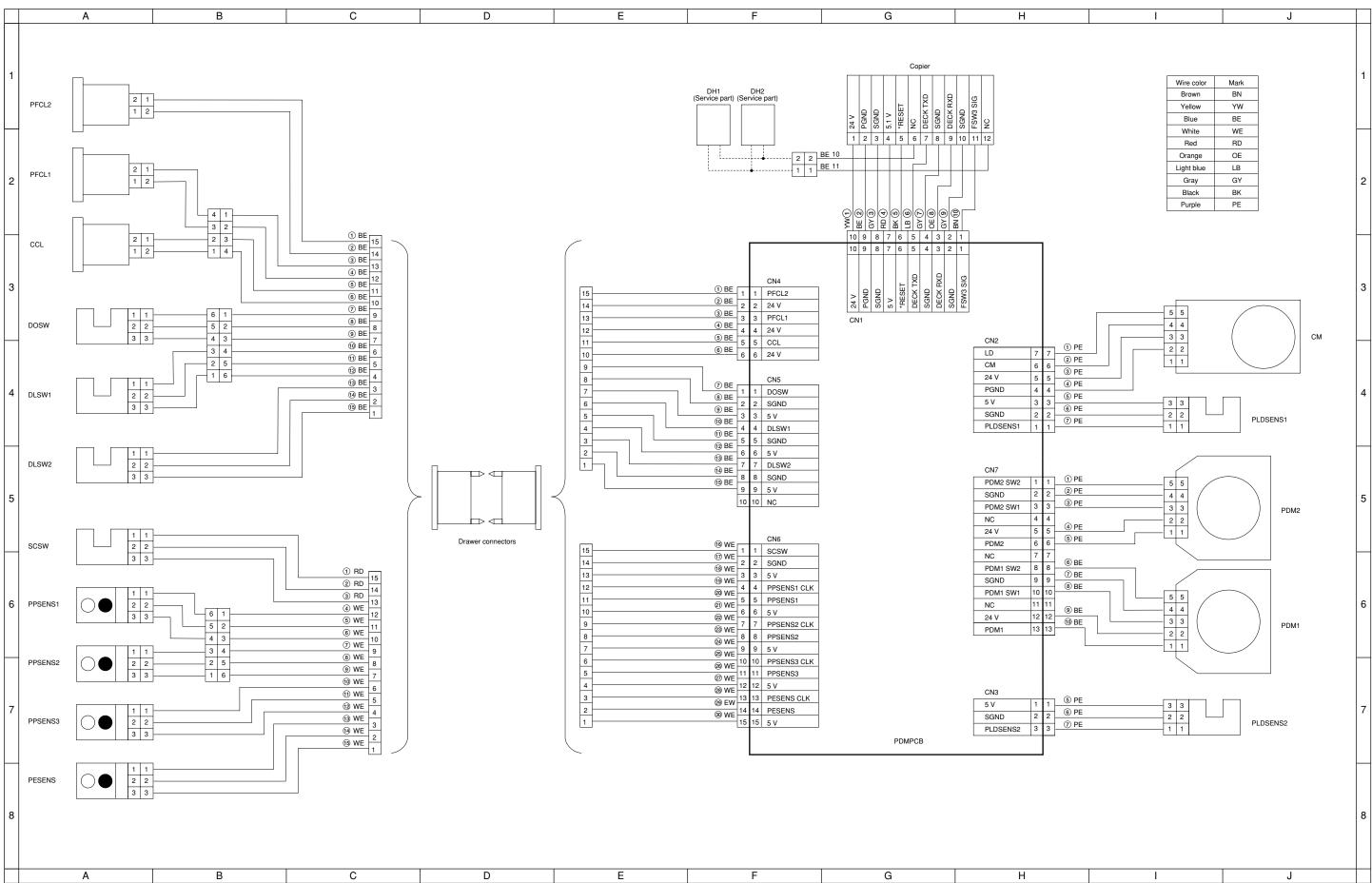
Timing chart No. 2 Paper feed from large paper deck right cassette



5FF

2-4-2

#### Wiring diagram



# Fax System (C)

## CONTENTS

1-1 Specifications	
1-1-1 Specifications	1-1-1
1-1-2 Parts names and their functions	1-1-4
(1) Copier	1-1-4
(2) Operation panel	
(3) Basic fax screen on the touch panel	1-1-6
1-1-3 Mechanical construction	1-1-7
1-2 Installation	
1-2-1 Setting and registering data	
(1) Settings	
(2) Registration	
1-2-2 Installing the optional add-on memory	1-2-3
1-3 Maintenance Mode	
1-3-1 Maintenance mode	
(1) Maintenance mode item list	
(2) Contents of maintenance mode items	1-3-4
1-4 Error Code	
1-4-1 Error codes	
(1) Error code	
(2) Table of general classification	
(2-1) U004XX error code table: interrupted phase B	
(2-2) U006XX error code table: Problems with the unit	
(2-3) U008XX error code table: Page transmission error (2-4) U009XX error code table: Page reception error	
(2-4) 0009XX error code table: Page reception error	
(2-6) U011XX error code table: G3 reception	
(2-7) U017XX error code table: V.34 transmission	
(2-8) U018XX error code table: V.34 reception	
(2-9) U044XX error code table: Encrypted transmission	
1-5 Self Diagnosis	
1-5-1 Self-diagnosis	
(1) Self diagnostic codes	
1-6 Requirements on PCB Replacement	
1-6-1 Updating the firmware	1-6-1
(1) Updating the firmware on the fax control PCB (FLASH ROM)	
(2) Updating the firmware on the fax control PCB (Compact Flash card)	
2-1 Electrical Parts Layout	
2-1-1 Electrical parts layout	2-1-1
2-2 Operation of the PCBs	
2-2-1 Fax control PCB	2-2-1
2-2-2 NCU PCB	
2-2-3 Auxiliary power source PCB	2-2-9

3CM

## 1-1-1 Specifications

Туре	. Optional Fax Kit
Compatibility	. Group 3
Line Requirement	. Subscription telephone line
Transmission Speed	. Within 3 seconds (33600 bps, JBIG, ITU-T #1 chart)
Modem Speed	. 33600/31200/28800/26400/24000/21600/19200/16800/14400/12000/9600/
	7200/4800/2400 bps
Data Compression	. JBIG/MMR/MR/MH
Error Correction	
Maximum Document Dimensions	. Width: 11" [297 mm] Length: 63" [1600 mm]
Automatic Document Feeder Capacity	. RADF: Max. 100 pages, ADF: Max. 70 pages
Auxiliary Scanning Line Density	. Horizontal x Vertical
	Normal (8 dots/mm x 3.85 lines/mm)
	Fine (8 dots/mm x 7.7 lines/mm)
	Super fine (8 dots/mm x 15.4 lines/mm)
	Ultra fine (16 dots/mm x 15.4 lines/mm)
Recording Resolution	
Grayscale	. 128 levels (Value differential diffusion)
Speed-Dial Keys	. Max. 300 destinations
Broadcast Transmission	. Max. 300 destinations
Polling Reception	. Max. 300 locations
Installed Bitmap Memory	. 4 MB
	. 4 MB (including 1 MB of working memory)
Management Reports and Lists	. Activity Report, Confirmation List, User Setting List, One-Touch Key List,
	Telephone Directory List, Program Dial List, Group Dial List, Encryption Key
	List, Restricted Access Report, Department List
Options	. Memory (8 MB)

\* Specifications are subject to change without notice.

Reception functions	Manual reception Automatic reception Fax/telephone auto selection TAD reception D.R.D. reception <sup>*1</sup> Remote switching
Transmission functions	Abbreviated dialing (up to 300 numbers can be stored) One-touch dialing <sup>*2</sup> Program dialing <sup>*2</sup> Group dialing <sup>*2</sup> Chain dialing <sup>*2</sup> Redialing (manual/automatic) Dial confirmation
Communication functions	Direct feed transmission Memory transmission Direct reception Memory reception (F-coded confidential reception and relay broadcast reception)
Additional communication functions	Broadcast transmission (up to 300 numbers) Polling communication Encrypted communication (no compatibility with models before the facsimile kit for 23/31 cpm copier) Password check communication Memory fax forwarding Reserved transmission Timer transmission Interrupt transmission Short protocol ECM F-coded transmission F-coded confidential reception F-coded bulletin board communication F-coded relay broadcast
Supplementary communication functions Supplementary transmission functions	Printing out from F-coded confidential box Manual transmission Telephone directory Transmission destination display Tone transmission Memory back-up (60 min.* <sup>3</sup> ) Entry into F-coded bulletin board Communication result display Batch transmission
	TTI transmission Bulletin board Rotation transmission Duplex transmission <sup>*4</sup> Initial communication speed setting
Supplementary reception functions	Memory reception 2-in-1 reception Auto reduce reception Rotation reception Duplex reception* <sup>5</sup> Recording paper setting (auto selection, fixed size or fixed cassette) During-reception copying Reception date and time recording

Reports	Activity report	
Ropolito	Transmission report	
	Reception report	
	Power failure report	
	Delayed communication report	
	Confirmation report	
	User settings list	
	Encryption key list	
	Management report	
	Department list	
	Abbreviated dial list	
	One-touch key list	
	Telephone directory list	
	Program dial list	
	Group dial list	
Others	Memory editing	
	Remote diagnosis	
	Department control for faxes	

\*1: For 120 V specifications only.
\*2: To be registered under one-touch keys. Up to 300 one-touch keys can be used for one-touch dialing, program dialing, group dialing and chain dialing.
\*3: When an optional add-on memory is installed.

\*4: Available only when a duplex document processor is installed.

\*5: Available only when a duplex unit is installed.

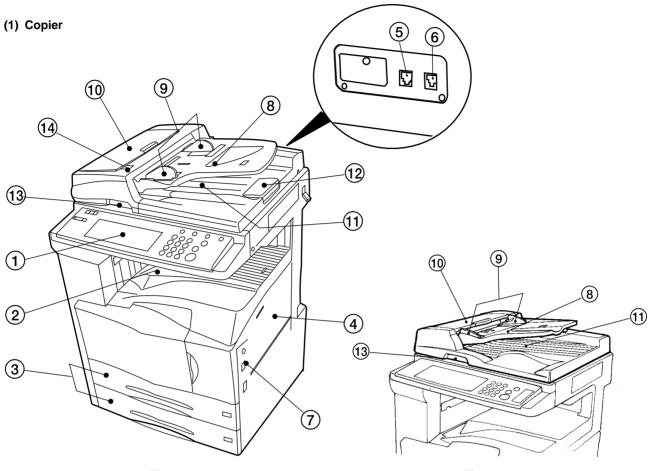
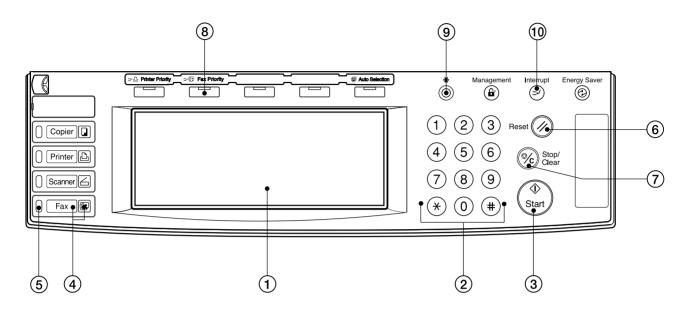


Figure 1-1-1

Figure 1-1-2

1	Operation panel	Use the operation panel to perform the procedures required for fax communication.
2	Fax storage section	Received documents are ejected and stored face-down in the fax storage section. Up to 250 sheets can be stored in this section at one time.
3	Drawers	This fax machine comes standard with two drawers installed. Each drawer can hold up to 500 sheets of plain paper (60 g/m2 - 105 g/m2).
4	Multi-Bypass	Paper can be set in the Multi-Bypass as well. In order to use the Multi-Bypass, it is necessary to select "ON" under "Turning Manual Paper Feed ON/OFF".
5	Telephone jack (T)	Use this jack to connect a separately purchased telephone to the fax.
6		Use this jack to connect the fax to a telephone line using the modular cord.
7		Turn this switch ON (   ) in order to perform fax and copy operations. The
		message display will light and operation will be possible.
•	Document Processor	
Th	ere are 2 optional document processors	available for use with this machine: the document processors for feeding one-
sic	ded documents, and the duplex documen	t processor for using both sides of 2-sided documents.
*	Both the document processor and duple	x document processor can be used with the 25 copies per minute machine.
	However, only the duplex document pro-	cessor can be used with the 35 copies per minute machine.
8	Document table	Set the documents you want to transmit on this table. Up to 70 sheets of up
		to 11" x 8 1/2" [A4] size paper, or up to 50 sheets of 8 1/2" x 14" or 11" x 17"
		[A3 or Folio] size paper, can be set at one time.
9	Document insert guides	Adjust these guides to match the width of the documents.
10	Document processor reversing cover	Open this cover if a document jams.
11	Document eject cover	Documents are ejected onto this cover after being scanned.
12	Period Elipse El	Open this guide when transmitting documents of a large size such as 8 1/2" x 14" or 11" x 17" [A3 or Folio].
13	Document processor open/close lever	Operate this lever when opening and closing the document processor.
14	Document set indicator	This indicator indicates the status of the documents set in the document processor. Documents are set properly when the indicator is lit green.

### (2) Operation panel

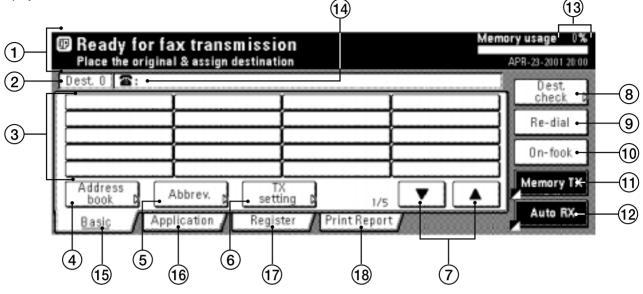




1	Touch panel	Indicates operation procedures as well as trouble with the machine. Keys related to operational procedures which appear on the touch panel with their name displayed are indicated in this handbook within double quotation marks. In addition, you will be instructed to "touch" any keys which appear on the touch panel rather than "press" them. (Ex.: Touch the "xxx" key.)
2	Keypad	Use the keypad to enter fax numbers, etc.
		* Even if your telephone service is for pulse dialing, press the star (*) key and any key pressed on the keypad after that will transmit the related tone signal. (Inch version only)
3	Start key	Press this key when you want to initiate a fax communication.
4	Fax key/Fax indicator	Press this key when you want to switch between the Copy Operation and Fax Operation modes. The Fax indicator is lit when the machine is in the Fax Operation mode.
5	Fax data indicator	When received documents or other data are being stored in memory, this indicator will flash and then light continuously.
6	Reset key	Press this key when you want to cancel an operation in progress and have the touch panel return to the initial mode settings.
7	Stop/Clear key	Press this key when you want to delete registered fax numbers or names, as well as when you want to stop an operation in progress.
8	Fax Priority key	Press this key when you want to give priority to printing out a received fax during a copy operation.
9	Default key	Press this key when you want to perform settings related to the various default modes for the fax functions of this machine.
10	Interrupt key/indicator lamp	Press this key when you want to interrupt a fax reception in order to make copies. The indicator lamp in the Interrupt key will light when the machine is in the Interrupt mode.

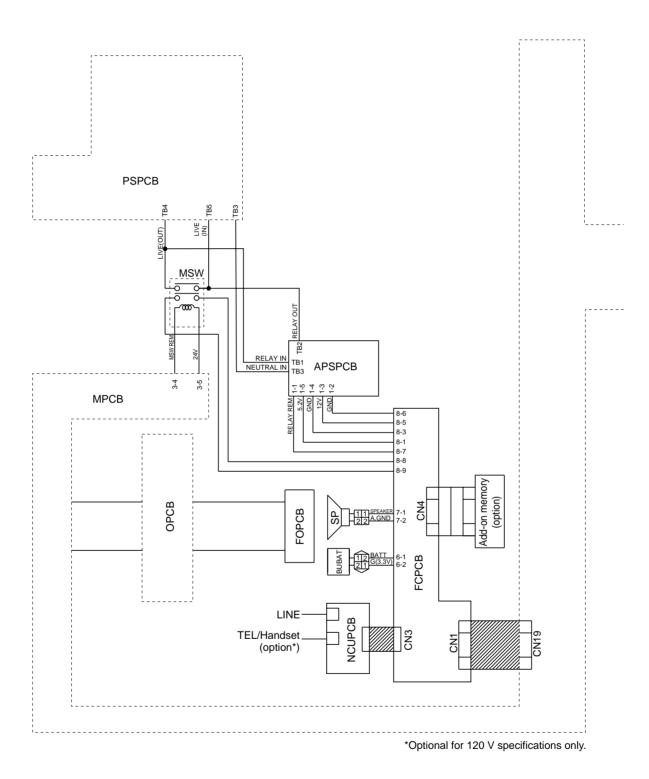
# (3) Basic fax screen on the touch panel

The initial screen that appears in the touch panel when you press the Fax key in any other mode in order to change to the Fax Operation mode is called the "basic fax screen". The following contains information on the basic keys which are displayed in this screen and their functions.



#### Figure 1-1-4

1	Message display	Current status, the next step in a procedure and error messages are shown in the message display.
2	Number of destinations display	The number of destinations that you have chosen to dial to is shown in this area.
3		Keys that you have registered to function as either a one-touch key, a group dial key (G), a program key (P) or a chain dial key (C) are displayed here.
4	"Address book" key	Touch this key when you want to use the address book.
5		Touch this key when you want to use the abbreviated number that a destination number is registered under in order to dial that number.
6	"TX setting" key	Touch this key when you want to perform settings related to transmission conditions such as the size of the documents to be transmitted, the image quality
		of those documents, the contrast at which you want to send them and the time when they should be sent. Once you press this key, the TX Setting screen will
7	" • " and """ oursor kove	appear. Use these keys when you want to display speed-dial keys other than those which
	_ , ,	are currently displayed.
8	"Dest. check" key	Touch this key when you have entered multiple destination fax numbers using
~		speed-dial keys, etc., and you want to check the list of those numbers.
9	-	Touch this key when you want to have the fax automatically redial the most recently dialed number
10	) "On-hook" key	When a separately purchased telephone is connected to this fax machine and you touch this key, you can dial a destination number without having to pick up the receiver.
11	"Memory TX" / "Dir. Feed Tx" key	When you want to switch between the Memory Transmission mode ("Memory Tx") and the Direct Feed Transmission mode ("Dir. Feed Tx"). The mode will change each time you touch this key.
12	Reception mode select key	Touch this key when you want to select a different reception mode. The mode will
		change each time you touch this key.
13	Memory bar	Indicates the amount of data stored in memory. As documents are being stored, the bar will move towards "100%" indicating that the data stored in memory is increasing. Once it reaches "100%", no more documents can be stored in memory.
14	Fax number display	The number that you have entered to dial is displayed here.
		Touch this key when you want to return to the basic fax screen.
		Touch this key when you want to use one of the various functions of this fax
	11	machine such as polling, etc.
17	"Register" ["Registration"] key	Touch this key when you want to perform one of the various registration procedures of this fax machine.
18	3 "Print Report" key	Touch this key when you want to print out one of the various reports or lists of this fax machine.





The fax system consists of the fax control PCB (FCPCB), NCU PCB (NCUPCB), auxiliary power source PCB (APSPCB), fax operation unit PCB (FOPCB), speaker (SP), backup battery (BUBAT) and optional add-on memory.

# 1-2-1 Setting and registering data

After setting up the machine, set or register the following data.

#### (1) Settings

- Setting the type of telephone line\*1
- Select the setting (pulse or tone) according to the type of telephone line to be used.
- Setting the document size for scanning from the document feeder
- Select the setting ("Standard size original" or "Long original") for scanning the original fed from the DF. • Setting the paper feed selection mode
- Select the paper feed mode ("Auto Selection mode", "Fixed Size mode" or "Fixed Cassette mode") for printing received fax or reports.
- Setting 2-in-1 reception

Select whether or not to output two successively-received  $A5/8^{1}/_{2}" \times 5^{1}/_{2}"$  documents onto one  $A4R/8^{1}/_{2}" \times 11"$  page. • Setting the reception mode

- Select an automatic reception mode (automatic fax reception, fax/telephone auto selection or D.R.D. reception\*1). • Setting the memory fax forwarding
- Select whether or not to perform memory fax forwarding.
- Setting report output condition
- Select the output condition for the management report (output or not output by department).
- Select the output condition for the activity report (output or not output after every 50 communications)
- Select the output condition for the transmission report (output or not output after each transmission)
- Select the output condition for the reception report (output or not output after each reception)
- Select the output condition for the timer communication report (output or not output after each timer programming).
  Setting the TTI transmission
- Select whether or not to add the transmit terminal identifier (TTI) to the transmitting document.
- Setting reception date and time recording
- Select whether or not to record the date and time on received documents.
- Setting the password check communication
- Select whether or not to perform password check communication.
- Setting the speaker volume Set the volume of the speaker in the on-hook mode (4 levels).
  Setting the alarm buzzer volume
- Set the volume of the alarm that sounds during events such as when an error occurs (3 levels).
- Setting the monitoring volume
- Set the volume for the sounds from the speaker (4 levels).
- Setting the bulletin board
   Select whether or not to use the bulletin board during polling transmission.
- Setting duplex reception\*2
- Select whether or not to print received documents on both sides of the paper.
- Setting the number of rings for automatic reception
- Select the number of rings (1 to 15) that sound after call reception until fax data reception starts in the auto reception mode.
- Setting the number of rings for TAD reception
- Set the number of rings (1 to 15) that sound after call reception until fax data reception starts in the TAD reception mode.
- Setting the number of rings for fax/telephone auto select mode<sup>\*1</sup> Set the number of rings (0 to 15) that sound after call reception until fax data reception starts in the fax/telephone auto select mode.
- Setting remote diagnosis
- Set to take advantage of our remote diagnosis system.
- Setting the dial confirmation Set whether or not to display information such as destination names, with functions that use one-touch keys (one-touch dialing, group dialing and program dialing).
- Setting the default transmission mode
- Select the transmission mode (memory transmission or direct feed transmission) to be used in the initial mode.

\*1: For 120 V specifications only.

\*2: When an optional duplex unit is installed.

### (2) Registration

- Date and time
- Set the current date and time.
- Self station information
- Register the self telephone number, self station name and self station ID.
- One-touch dialing
- Register destination fax (telephone) numbers and names under one-touch keys. Up to 300 entries can be registered. • Abbreviated dialing
- Register destination fax (telephone) numbers and names to desired abbreviated numbers (001 to 300). Up to 300entries can be registered.
- Group dialing

Register multiple destination fax (telephone) numbers and names under a one-touch key for group dialing. Up to 300 entries can be registered.

Program dialing

Register frequently used communication modes or fax numbers under one-touch keys. Up to 300 entries can be registered.

Chain dialing

Register chain numbers and names under one-touch keys. Up to 300 entries can be registered.

Remote switching number

Change the remote switching number, which is set to "55" at the factory, for receiving faxes using the telephone connected to the machine.

- Management password
- Register a 4-digit password, which is set to "6482" at the factory, for encrypted communication.
- Cipher key password
- Register a 16-digit cipher key password for encrypted communication.
- Encryption boxes
- Register encryption boxes for receiving encrypted transmissions. Up to 20 boxes can be registered.
- Permit telephone numbers and IDs

Register the password (permit telephone number or ID) for password check communication.

• F-code confidential boxes

Register F-code confidential boxes for F-code based confidential communication. Up to 15 boxes can be registered. • F-code relay boxes

- Register F-code relay box for F-code based relay broadcast communication. Up to 15 boxes can be registered. • Access codes
- Register access codes for restricted access. Up to 50 codes can be registered.

### 1-2-2 Installing the optional add-on memory

Add-on memory installation on the fax control PCB assembly requires the following parts: 8 MB add-on memory (P/N: 2AW6001)

- <Procedure>
- 1. Remove 13 screws and take off the rear cover.

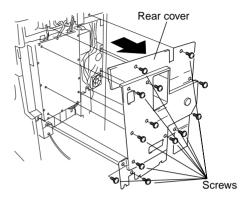


Figure 1-2-1

2. If the printing system is installed: Remove the 2 screws holding the printer system in place, and pull the printing system out of the controller box.

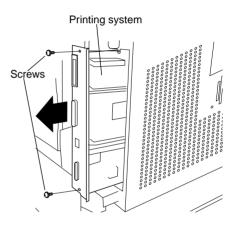


Figure 1-2-2

3. Remove 13 screws and take off the controller-box cover.

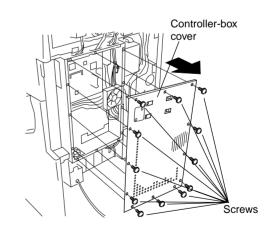


Figure 1-2-3

- Insert the Memory module DIMM (8MB) at an angle into the memory slot on the fax board.
   Important: The Memory module DIMM (8MB) must be insta
  - Important: The Memory module DIMM (8MB) must be installed onto the fax board. Please be sure that you do not install it onto the main PCB.

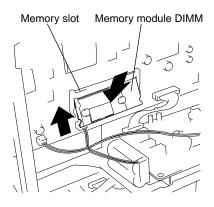


Figure 1-2-4

- 5. Push the free end of the module down toward the board.
- 6. Refit all removed parts.

# 1-3-1 Maintenance mode

# (1) Maintenance mode item list

Section	ltem No.	Maintenance item contents	Initial setting*
Fax	U600	Initializing all data	
	U601	Initializing permanent data	_
	U602	Setting factory defaults	
	U603		
		<ul> <li>Setting the self telephone number</li> <li>Setting the type of telephone line</li> </ul>	
		Setting the number of rings in the fax/telephone auto select mode	_
		Setting remote diagnostic transmission	—
	U604	5	
		<ul> <li>Clearing transmission history</li> <li>Initializing the management password</li> </ul>	_
		Initializing the F-code confidential box ID	
		Initializes the F-code relay box ID	_
		Initializes the encription box ID	
	U605		
		<ul> <li>Setting how to proceed if memory becomes full during memory transmission</li> </ul>	_
		Setting an alarm for when reception is completed	_
		<ul> <li>Selecting if auto reduction in the auxiliary direction is to be performed</li> </ul>	_
		Setting the addition of an image to the report     Setting the error report diaplay format	—
		<ul> <li>Setting the error report display format</li> <li>Setting the line-monitoring period</li> </ul>	
		<ul> <li>Setting the one-shot detection time for remote switching</li> </ul>	_
		Setting the continuous detection time for remote switching     Setting the initial condition of fax image according multiple	—
	11000	Setting the initial condition of fax image scanning quality	
	U606	<ul> <li>Setting the system (operation unit and display)</li> <li>Setting the conditions under which an error indicator turns off</li> </ul>	_
		Setting the date format	_
		Setting if the image scanning quality in fax mode is initialized	—
		<ul> <li>Setting if the scanning density in fax mode is initialized</li> <li>Setting whether to skip unregistered abbreviated numbers</li> </ul>	_
		and one-touch key numbers on the list	_
	U607		
		Setting the auto redialing interval	—
		<ul> <li>Setting the number of times of auto redialing</li> <li>Setting the communication starting speed</li> </ul>	
		Setting the reception speed	_
		Setting the mode for remote switching	_
		<ul> <li>Setting the transmission intervals</li> <li>Sets the loop current detection before dialing</li> </ul>	
		Sets the DIS signal to 4 bytes	_
	U608		
		<ul> <li>Setting the method to process errors</li> </ul>	—
		<ul> <li>Setting the number of times of DIS signal reception</li> <li>Setting the reference for RTN signal output</li> </ul>	
		Setting the waiting period to prevent echo problem at the sender	
		<ul> <li>Setting the waiting period to prevent echo problem at the receiver</li> </ul>	—
		Setting ECM transmission	—
		<ul> <li>Setting ECM reception</li> <li>Setting the criteria for receiving a TCF signal 1</li> </ul>	
		• Setting the frequency of the CED signal	—
	U609	0	
		• Setting the T0 time-out time	—
		<ul> <li>Setting the T1 time-out time</li> <li>Setting the T2 time-out time</li> </ul>	69
		Setting the Ta time-out time	30
		Setting the Tb1 time-out time	20
		Setting the Tb2 time-out time     Setting the Tc time out time	80
		<ul> <li>Setting the Tc time-out time</li> <li>Setting the Td time-out time</li> </ul>	60

Section	Item No.	Maintenance item contents	Initial setting
Fax	U610	Setting the modem output level • Setting the modem output level • Adjusting the modem output level	_
	U611	G3 cable equalizer • Setting the G3 transmission cable equalizer • Setting the G3 reception cable equalizer	_
	U612	Setting the modem detection level	
	U613	Setting the DTMF output level • Setting the DTMF (high-frequency group) output level • Setting the DTMF (low-frequency group) output level	_
	U614	Adjusting the DTMF output level • Adjusting the DTMF (high-frequency group) output level • Adjusting the DTMF (low-frequency group) output level	
	U615	Setting the NCU • Setting the connection to PBX/PSTN • Setting PSTN dial tone detection • Setting busy tone detection • Setting for a PBX	 
	U616	Adjusting the ratio of make-to-break of dial pulses • Make time (10 PPS) • Make time (20 PPS)	_
	U617	Outputting lists • Settings list • Action list • Monitor list • Own-status report • Protocol list • One-touch dialing ECM setting list	 
	U650	<ul> <li>Setting the system 1</li> <li>Setting the number of lines to be ignored when receiving a fax at 100% magnification</li> <li>Setting the number of lines to be ignored when receiving a fax in the auto reduction mode</li> <li>Setting the number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode</li> <li>Setting the recording width for inch specifications</li> <li>Setting automatic printing of the protocol list</li> </ul>	3 3 <u>3</u> 
	U651	<ul> <li>Setting the system 2</li> <li>Setting the variation range in the auxiliary scanning direction for rotation reception</li> <li>Setting the number of adjustment lines for automatic reduction</li> <li>Setting the number of adjustment lines for automatic reduction when A4 paper is set</li> <li>Setting the number of adjustment lines for automatic reduction when letter size paper is set</li> </ul>	3 7 22 26
	U660	Setting the system (communication 2) <ul> <li>Setting the criteria for receiving a TCF signal 2</li> <li>Setting the short protocol transmission</li> <li>Setting the reception of a short protocol transmission</li> <li>Setting the CNG detection times in the fax/ telephone auto select mode</li> <li>Turning ECM for one-touch dialing on/off</li> </ul>	 
	U670	Setting the system (communication 3) • Setting if V.34 transmission is available • Setting the V.34 symbol speed (3429 Hz) • Setting the V.34 symbol speed (3200 Hz) • Setting the V.34 symbol speed (3000 Hz) • Setting the V.34 symbol speed (2800 Hz)	 
	U680	Displaying the fax board ROM version	_

Section	ltem No.	Maintenance item contents	Initial setting
Fax	U881	Using the flash-memory jig • Saving data from SRAM into the jig • Writing data from the jig into RAM • Writing the boot program into the jig	-
	U894	Performing board test	
Others	U992	<ul> <li>Performing tests on SRAM and DRAM</li> <li>Performing tests on optional memory</li> </ul>	

# (2) Contents of maintenance mode items

intenance tem No.	Description						
J600	Initializing all data						
	Description						
	Initializes software switches and all data in the SRAM on the fax control PCB, according to the destination and OEM.						
	Purpose Used to initialize the fax control PCB.						
	<ul> <li>Method</li> <li>1. Press the start key. The screen for entering the destination code is displayed. Enter a destination code using the numeric keys (refer to the destination code list on page 1-3-5 for the destination code).</li> </ul>						
	INI. ALL DATA COUNTRY CODE:000						
	<ol> <li>Press the start key. The screen for entering the OEM code is displayed.</li> <li>There is no operation necessary on this screen.</li> </ol>						
	INI. ALL DATA OEM CODE:000						
	<ol> <li>Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.</li> <li>After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later.</li> </ol>						
	INI. ALL DATA COMPLETED 000 000						
	INI. ALL DATA COMPLETED V1.00						
	<b>Caution</b> If initialized with "000" (code for Japan) entered as the destination code, service call code C082 (fax contro PCB problem) will be detected. Be sure to enter the correct destination code. If C082 (fax control PCB problem is detected, press the COPY/FAX switching key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.						

U600 (cont.)		nance Description									
(cont.)											
	Code	Destination	Code	Destination	Code	Destination					
	000	Japan	159	South Africa	253	Sweden					
	009	Australia	169	Thailand		France					
	080	Hong Kong	181	U.S.A.		Austria					
	084	Indonesia	242	South America		Switzerland					
	088	Israel	243	Saudi Arabia		Belgium					
	108	Malaysia	253	CTR21 (European nations)		Denmark					
	126	New Zealand		Italy		Finland					
	136	Peru		Germany		Portugal					
	137 152	Philippines Middle East		Spain U.K.		Ireland Norway					
	152	Singapore		Netherlands	254	Taiwan					
	100	Cingapore		Nethendrids	204	Taiwan					
U601	Initializing permanent data         Description         Initializes software switches other than that for machine data on the fax control PCB according to the destination and OEM.         Purpose         Used to initialize the fax control PCB without changing user registration data and factory settings.         Method         1. Press the start key. The screen for entering the destination code is displayed.         Enter a destination code using the numeric keys (refer to the destination code list on page 1-3-5 for the destination code).         INI.       KEEP DATA         COUNTRY_CODE:000										
	Initializes destination <b>Purpose</b> Used to in <b>Method</b> 1. Press Enter destin INI.	software switches on and OEM. hitialize the fax contr the start key. The so a destination code hation code).	ol PCB with creen for er using the r	nout changing user registration	data and displayed	l factory settings.					
	Initializes destination <b>Purpose</b> Used to in <b>Method</b> 1. Press Enter destin [INI. CO] 2. Press	software switches on and OEM. hitialize the fax contro- te the start key. The so te a destination code hation code). KEEP DATA UNTRY CODE:000	ol PCB with creen for er using the r	nout changing user registration ntering the destination code is o numeric keys (refer to the desti	data and displayed ination co	l factory settings.					
	Initializes destination Purpose Used to in Method 1. Press Enter destin INI. CO 2. Press There INI.	software switches on and OEM. hitialize the fax contra- tion code the start key. The so a destination code hation code). KEEP DATA UNTRY CODE:000 the start key. The so is no operation nec	ol PCB with creen for er using the r	nout changing user registration ntering the destination code is o numeric keys (refer to the desti	data and displayed ination co	l factory settings.					
	Initializes destination Purpose Used to in Method 1. Press Enter destin INI. CO 2. Press There 3. Press 4. After	software switches on and OEM. hitialize the fax contra- s the start key. The so a destination code hation code). KEEP DATA UNTRY CODE:000 s the start key. The so b is no operation nec KEEP DATA M CODE:000 s the start key. Data i	ol PCB with creen for er using the r creen for er essary on t nitialization	nout changing user registration ntering the destination code is o numeric keys (refer to the desti	data and displayed ination cc yed.	l factory settings. ode list on page 1-3-5 for ss the stop/clear key.					
	Initializes destination Purpose Used to in Method 1. Press Enter destin CO 2. Press There 3. Press 4. After displa	software switches on and OEM. hitialize the fax contra- tion code in the start key. The so a destination code in the start key. The so the start key. Data i data initialization, the ayed two seconds lat	ol PCB with creen for er using the r creen for er essary on t nitialization te entered ter.	nout changing user registration ntering the destination code is numeric keys (refer to the destination ntering the OEM code is display this screen.	data and displayed ination cc yed.	l factory settings. ode list on page 1-3-5 for ss the stop/clear key.					
	Initializes destination Purpose Used to in Method 1. Press Enter destin CO 2. Press There 3. Press 4. After displa	software switches on and OEM. hitialize the fax contra- s the start key. The so a destination code hation code). KEEP DATA UNTRY CODE:000 s the start key. The so b is no operation nec KEEP DATA M CODE:000 s the start key. Data i data initialization, th ayed two seconds lat KEEP DATA MPLETED 000 000	ol PCB with creen for er using the r creen for er essary on t nitialization te entered ter.	nout changing user registration ntering the destination code is numeric keys (refer to the destination ntering the OEM code is display this screen.	data and displayed ination cc yed.	l factory settings. ode list on page 1-3-5 for ss the stop/clear key.					

If initialized with "000" (code for Japan) entered as the destination code, service call code C082 (fax control PCB problem) will be detected. Be sure to enter the correct destination code. If C082 (fax control PCB problem) is detected, press the COPY/FAX switching key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.

Usercliption         Description           Initializes software switches other than that for machine data and the SRAM on the fax control PCB, accc to the destination and OEM.         Purpose           Used to initialize the fax control PCB to the factory default.         Method         1. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.         2. After data initialization, the method data initialization, press the stop/clear key.           INI.         SHIP DATA         COMPLETED 0000 000            INI.         SHIP DATA         COMPLETED 1000 000	ding
Initializes software switches other than that for machine data and the SRAM on the fax control PCB, according to the destination and OEM. <b>Purpose</b> Used to initialize the fax control PCB to the factory default. <b>Method</b> 1. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key. 2. After data initialization, the entered destination and OEM codes are displayed, and the ROM version displayed two seconds later. INI. SHIP DATA COMPLETED 000 000 INI. SHIP DATA	ding
to the destination and OEM. Purpose Used to initialize the fax control PCB to the factory default. Method 1. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key. 2. After data initialization, the entered destination and OEM codes are displayed, and the ROM vers displayed two seconds later. INI. SHIP DATA COMPLETED 000 000 INI. SHIP DATA	ding
<ul> <li>Purpose Used to initialize the fax control PCB to the factory default.</li> <li>Method <ol> <li>Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.</li> <li>After data initialization, the entered destination and OEM codes are displayed, and the ROM vers displayed two seconds later.</li> <li>INI. SHIP DATA </li></ol> </li> <li>INI. SHIP DATA </li> <li>INI. SHIP DATA</li> </ul>	
<ul> <li>Used to initialize the fax control PCB to the factory default.</li> <li>Method <ol> <li>Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.</li> <li>After data initialization, the entered destination and OEM codes are displayed, and the ROM vers displayed two seconds later.</li> </ol> </li> <li>INI. SHIP DATA COMPLETED 000 000 INI. SHIP DATA</li></ul>	
<ul> <li>Method</li> <li>1. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.</li> <li>2. After data initialization, the entered destination and OEM codes are displayed, and the ROM vers displayed two seconds later.</li> <li>INI. SHIP DATA</li> <li>COMPLETED 000 000</li> <li>INI. SHIP DATA</li> </ul>	
<ul> <li>After data initialization, the entered destination and OEM codes are displayed, and the ROM vers displayed two seconds later.</li> <li>INI. SHIP DATA COMPLETED 000 000</li> <li>INI. SHIP DATA</li> </ul>	
COMPLETED 000 000       INI.       SHIP       DATA	on is
COMPLETED 000 000       INI.       SHIP       DATA	

-	nistration data	Description						
escription	JISTI ALION GALA	Setting the user registration data						
Description								
Makes user settings to enable the use of the copier as a fax. Purpose								
	llation of the facsimile kit if n	ecessa	rv.					
art								
1. Press the start key. The screen for selecting an item is displayed.								
2. Press the appropriate item.								
					l			
		-						
				auto select mode.				
REMOTE DIAC	Sets remote diagno	Sets remote diagnostic transmission.						
		eric keys	5.					
		to delet	te the stored tel	ephone number, re	eset by pressing the			
stop/clear key.				•				
	•	nrace f	he stop/clear ke	N				
					s completed.			
			0		·			
Change the sett	ng using the numeric keys.		-					
Display	Description		-					
1: DTMF	DTMF							
-								
		, press t	he stop/clear ke	ey.				
Use this if the user wishes to adjust the number of rings that occur before the unit switches into fax receiving								
		1.						
		S	etting range	]				
Number of fax/								
<ol> <li>Press the start key. The value is set.</li> </ol>								
3. To return to the screen for selecting an item, press the stop/clear key.								
Setting remote diagnostic transmission								
		ote diagnostic tra	ansmission is to be	e enabled.				
		-						
		, press t	he stop/clear ke	ey.				
ompletion								
-	key at the screen for selecting	ng an ite	em. The screen f	or selecting a mair	ntenance item No. is			
spiayeu.								
	Press the start k Press the approp The screen for th Display SELF TEL No. LINE TYPE RINGS (F/T) # REMOTE DIAC etting the self tele Enter the telepho Up to 20 digits c To correct the er stop/clear key. Press the start k To return to the self the item-selection The item-selection Display 1: DTMF 2: 10 3: 20 Press the start k To return to the self ting the number set this if the user v bode when fax/telep Change the setti Number of fax/ If you set this to Press the start k To return to the setting remote diag Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the setting Press the start k To return to the setting Press the start k To return to the setting Enter 1 or 2 usin Display	Press the start key. The screen for selecting Press the appropriate item.         The screen for the selected item appears.         Display       Desc SELF TEL No. LINE TYPE         SELF TEL NO. LINE TYPE       Sets the self teleph Sets the type of tele RINGS (F/T) # REMOTE DIAG         Sets the self telephone number         Enter the telephone number using the nume Up to 20 digits can be entered.         To correct the entered telephone number or stop/clear key.         Press the start key.         To return to the screen for selecting an item. The item-selection screen does not reappeated thing the type of telephone line         Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         Press the start key. The value is set. To return to the screen for selecting an item, etting the number of rings in the fax/telepho te this if the user wishes to adjust the number obde when fax/telephone auto-select is enabled Change the setting using the numeric keys.         Description       Number of fax/telephone rings         If you set this to 0, the unit will start fax rece Press the start key. The value is set. To return to the screen for selecting an item, etting remote diagnostic transmission         Enter 1 or 2 using the numeric keys to select Display       Description         Press the start key. The value is set. To return to the screen for select	Press the start key. The screen for selecting an item Press the appropriate item.         The screen for the selected item appears.         Display       Description         SELF TEL No.       Sets the self telephone number of rings in REMOTE DIAG         Sets the type of telephone number       Sets the number of rings in Sets remote diagnostic training the self telephone number         Enter the telephone number       Sets the number of rings in Sets remote diagnostic training the self telephone number or to delet stop/clear key.         Press the start key.       To correct the entered telephone numeric keys.         The item-selection screen does not reappear until resting the type of telephone line       Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         Press the start key. The value is set.       To return to the screen for selecting an item, press to the the set is if the user wishes to adjust the number of rings one that fax/telephone autore the set is if the user wishes to adjust the number of rings one that set.         To return to the screen for selecting an item, press to the set is if the user wishes to adjust the number of rings one the fax/telephone autore the set.         To return to the screen for selecting an item, press to the start key. The value is set.         To return to the screen for selecting an item, press to the suset this to 0, the unit will start fax recep	Press the start key. The screen for selecting an item is displayed.         Press the appropriate item.         The screen for the selected item appears.         Display       Description         SELF TEL No.       Sets the self telephone number.         LINE TYPE       Sets the type of telephone number.         RINGS (F/T) #       Sets the number of rings in fax/telephone at Sets remote diagnostic transmission.         tting the self telephone number       Sets remote diagnostic transmission.         tting the self telephone number using the numeric keys.       Up to 20 digits can be entered.         To correct the entered telephone number or to delete the stored telestop/clear key.       Press the start key.         To return to the screen for selecting an item, press the stop/clear ke the telephone line       Change the setting using the numeric keys.         Display       Description       Description         1: DTMF       DTMF       20 PPS         2: 0       10 PPS       3: 20       20 PPS         Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear kee this if the user wishes to adjust the number of rings that occur befor dee when fax/telephone auto-select is enabled.         Change the setting using the numeric keys.       Description       Setting range         Number of fax/telephone rings       0 to 15       If you set this to	Press the start key. The screen for selecting an item is displayed.         Press the appropriate item.         The screen for the selected item appears.         SELF TEL No.         LINE TYPE         Sets the self telephone number.         LINE TYPE         Sets the subject of telephone number.         RINGS (F/T) #         Sets the number of rings in fax/telephone auto select mode.         REMOTE DIAG         Sets remote diagnostic transmission.         uting the self telephone number using the numeric keys.         Up to 20 digits can be entered.         To correct the entered telephone number or to delete the stored telephone number, restor/clear key.         Press the start key.         To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing interm setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         Press the start key. The value is set.         To return to the screen for selecting an item, press the stop/clear key.         Change the setting using the numeric keys.         Display       Description         1: DTMF       Display      <			

aintenance item No.	Description							
U604	Clearing data							
	Des	cription						
	Initializes data related to the fax transmission such as transmission history and IDs.							
	Pur	pose						
	Use	d to clear the tra	nsmission history or if an ID has been forgotten.					
	Met	hod						
			ey. The screen for selecting an item is displayed.					
		Press the approp						
	Initialization processing starts. When processing is finished, the screen displays "COMPLETED".							
		Display	Description					
		COMM. REC	Clears the activity report, error list, action list, transmission history					
			of each department as listed on the department control report,					
			transmission history for displaying the transmission results,					
			document number, timer program information, protocol list, and					
			other transmission history such as image data, excluding items					
		MANAGE PW	regarding the machine variation adjustment. Initializes the management password.					
		F-CODE ID	Initializes the F-code confidential box ID.					
		F-CODE ID	Initializes the F-code relay box ID.					
		ENCRPT ID	Initializes the encription box ID.					
	3.	To return to the s	screen for selecting an item, press the stop/clear key.					
		npletion						
	Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is							
			key at the screen for selecting an item. The screen for selecting a maintenance item No. I					
	disp	layed.						
U605	disp Sett	layed. ting the system						
U605	disp Sett	layed. ting the system scription	(operational)					
U605	disp Sett Des Mak	blayed. ting the system scription kes settings for fa						
U605	disp Sett Des Mak Star	blayed. ting the system scription kes settings for fa rt	(operational)					
U605	disp Sett Des Mak Star 1.	blayed. ting the system acription kes settings for fa rt Press the start k	(operational) ix transmission regarding operation. ey. The screen for selecting an item is displayed.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp	(operational) ax transmission regarding operation. ey. The screen for selecting an item is displayed. briate item.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th	(operational) ax transmission regarding operation. ey. The screen for selecting an item is displayed. priate item. he selected item appears.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp	(operational) ax transmission regarding operation. ey. The screen for selecting an item is displayed. briate item.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th	(operational) Ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR	(operational) Ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period.					
J605	disp Sett Des Mak Star 1. 2.	Add in the system scription set ing the system scription set ings for fart Press the start k Press the appropriate screen for the screen for	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching.					
U605	disp Sett Des Mak Star 1. 2.	blayed. ting the system scription kes settings for fa rt Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR	(operational) Ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period.					
U605	disp Setti Des Mak Star 1. 2.	alayed. ting the system scription kes settings for far the set start k Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. ne selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality.					
U605	disp Setti Des Mak Star 1. 2. Star 2.	alayed. ting the system scription kes settings for far the set start k Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proce	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. oriate item. ne selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. Exceed if memory becomes full during memory transmission					
U605	disp Setti Des Mak Star 1. 2. Setti Use	alayed. ting the system scription kes settings for far- the set start k Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to processor	(operational) Ex transmission regarding operation. ey. The screen for selecting an item is displayed. oriate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the error report display format. Sets the line-monitoring period. Sets the continuous detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. Exeed if memory becomes full during memory transmission her to send only stored data or to display an error indication and cancel transmission					
U605	disp Sett Des Mak Stan 1. 2. Sett Use mer	and the system ting the system terription tes settings for fart Press the start k Press the approp The screen for the Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc and to select wheth mory becomes furthered	(operational) Ex transmission regarding operation. ey. The screen for selecting an item is displayed. oriate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the error report display format. Sets the line-monitoring period. Sets the construction time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. Exceed if memory becomes full during memory transmission her to send only stored data or to display an error indication and cancel transmission Il during memory transmission.					
U605	disp Sett Des Mak Stan 1. 2. Sett Use mer	alayed. ting the system scription tes settings for far Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proof to select wheth nory becomes fu	(operational) ex transmission regarding operation. ey. The screen for selecting an item is displayed. oriate item. he selected item appears.					
U605	disp Sett Des Mak Stan 1. 2. Sett Use mer	ting the system cription tes settings for fart Press the start k Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc od to select wheth nory becomes fu Enter 1 or 2 usin Display	(operational) ax transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. ceed if memory becomes full during memory transmission ther to send only stored data or to display an error indication and cancel transmission il during memory transmission. g the numeric keys to change the setting. Description					
U605	disp Sett Des Mak Stan 1. 2. Sett Use mer	alayed. ting the system scription tes settings for far Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proof to select wheth nory becomes fu	(operational)         ax transmission regarding operation.         ey. The screen for selecting an item is displayed.         briate item.         ne selected item appears.         Description         Sets how to proceed if memory becomes full during memory transmission.         Sets an alarm for when reception is completed.         Selects if auto reduction in the auxiliary direction is to be performed.         Sets for the addition of an image to the report.         Sets the error report display format.         Sets the line-monitoring period.         Sets the one-shot detection time for remote switching.         Sets the one shot detection time for remote switching.         Sets the initial condition of fax image scanning quality.         ceed if memory becomes full during memory transmission her to send only stored data or to display an error indication and cancel transmission Il during memory transmission.         g the numeric keys to change the setting.         Description         Whether to continue memory transmission or to					
U605	disp Sett Des Mak Stan 1. 2. Sett Use mer	ting the system cription tes settings for fart Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc d to select wheth mory becomes fu Enter 1 or 2 usin Display 1: CONT	(operational)         ex transmission regarding operation.         ey. The screen for selecting an item is displayed.         oriate item.         ne selected item appears.         Description         Sets how to proceed if memory becomes full during memory transmission.         Sets an alarm for when reception is completed.         Selects if auto reduction in the auxiliary direction is to be performed.         Sets for the addition of an image to the report.         Sets the error report display format.         Sets the line-monitoring period.         Sets the continuous detection time for remote switching.         Sets the one-shot detection time for remote switching.         Sets the initial condition of fax image scanning quality.         ceed if memory becomes full during memory transmission her to send only stored data or to display an error indication and cancel transmission il during memory transmission.         g the numeric keys to change the setting.         Description         Whether to continue memory transmission or to clear the memory can be selected by the user.					
U605	disp Setti Des Mak Star 1. 2. Setti Use mer 1.	alayed. ting the system scription tes settings for far Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proo d to select wheth nory becomes fu Enter 1 or 2 usin Display 1: CONT 2: STOP	(operational)         xx transmission regarding operation.         ey. The screen for selecting an item is displayed.         oriate item.         ne selected item appears.         Description         Sets how to proceed if memory becomes full during memory transmission.         Sets an alarm for when reception is completed.         Selects if auto reduction in the auxiliary direction is to be performed.         Sets the error report display format.         Sets the error report display format.         Sets the ine-monitoring period.         Sets the continuous detection time for remote switching.         Sets the initial condition of fax image scanning quality.         ceed if memory becomes full during memory transmission ther to send only stored data or to display an error indication and cancel transmission and cancel transmission.         g the numeric keys to change the setting.         Description         Whether to continue memory transmission or to clear the memory can be selected by the user. Memory is forcibly cleared.					
U605	disp Setti Des Mak Star 1. 2. Setti Use mer 1.	alayed. ting the system scription tes settings for far Press the start k Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proo d to select wheth nory becomes fu Enter 1 or 2 usin Display 1: CONT 2: STOP Press the start k	(operational)         ex transmission regarding operation.         ey. The screen for selecting an item is displayed.         oriate item.         ne selected item appears.         Description         Sets how to proceed if memory becomes full during memory transmission.         Sets an alarm for when reception is completed.         Selects if auto reduction in the auxiliary direction is to be performed.         Sets for the addition of an image to the report.         Sets the error report display format.         Sets the line-monitoring period.         Sets the continuous detection time for remote switching.         Sets the one-shot detection time for remote switching.         Sets the initial condition of fax image scanning quality.         ceed if memory becomes full during memory transmission her to send only stored data or to display an error indication and cancel transmission il during memory transmission.         g the numeric keys to change the setting.         Description         Whether to continue memory transmission or to clear the memory can be selected by the user.					

Maintenance item No.	Description						
U605 (cont.)			r when reception is completed g the numeric keys to change th				
		Display	Description	n			
		1: ON 2: OFF	An alarm rings. An alarm does not ring.				
	3. Sele	To return to the secting if auto re	ey. The value is set. screen for selecting an item, pre <b>duction in the auxiliary direct</b> eive a long document by auton	ion is to be perforn			
	mag	nification.					
	1.		g the numeric keys to change th				
		Display 1: ON	Description				
		2: OFF	Auto reduction is performed if document is longer than the fa Auto reduction is not performe	ax paper.			
			· · · ·				
			ey. The value is set. screen for selecting an item, pre	ess the stop/clear key	,		
			of an image to the report				
	Sele	ects if an image i	s to be added to the transmission	-			
	1.		g the numeric keys to change th	-			
		Display	Description	n			
		1: ON 2: OFF	Image added. Image not added.				
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the error report display format</li> <li>Selects the format of the transmission report when a transmission error occurs.</li> <li>Change the setting using the numeric keys.</li> </ol>						
		Display	Description	n			
		1: WORDS 2: CODE	Records an error message (B Records a six-digit error code	BUSY, OK, ERROR (	or STOP).		
		3: MIX	Records either an error mess	age or code.			
			ey. The value is set. screen for selecting an item, pre	ess the stop/clear key	ι.		
	Sets whe	ther the transmis		transmission from th	e start to the end, it can be checked		
		Display	Description				
			Until transmission is completed. After dialing is completed until rece	eption of a DIS signal.			
	3. Sett Sets disp	To return to the s i <b>ing the one-sho</b> the detection ti layed, but the se	ey. The value is set. screen for selecting an item, pre of detection time for remote so me when one-shot detection is tting made is ineffective.) ng using the numeric keys.	witching	e switching. (This setting item will be		
	••			Setting range			
		One shot datas	Description ction time for remote switching	Setting range 0 to 255 ms			
		Press the start k	ey. The value is set.				
			- · ·				

item No.	Description							
U605 cont.)	Sets disp	s the detection tir played, but the se	ous detection time for remote me when continuous detection is tting made is ineffective.) ng using the numeric keys.	switching s selected for remote switching. (This setting item will be				
			Description	Setting range				
		Continuous dete	ection time for remote switching	0 to 255 ms				
	2		ey. The value is set.					
			screen for selecting an item, pres	ss the stop/clear key.				
	Set	to the resolution	ondition of fax image scanning that is most frequently used by ng using the numeric keys.					
		Display	Description					
		1: S 2: F 3: SF 4: UF	Standard Fine Super fine Ultra fine					
			ey. The value is set. screen for selecting an item, pres	ss the stop/clear key.				
	<b>Completion</b> Press the stop/clear key at the screen for selecting an item. The screen for selecting a mainted displayed.							
J606	-	-	(operation unit and display)					
		scription						
		kes settings for fa	x transmission regarding the op	eration unit and display.				
	Start							
			ev The screen for selecting an it	em is displayed				
	1.	Press the start k	ey. The screen for selecting an it nodel does not provide LED erro	em is displayed. or indicators, this setting has no affect on actual operation				
	1.	Press the start k		or indicators, this setting has no affect on actual operation				
	1.	Press the start k Note: Since this r Display ALARM LED O	nodel does not provide LED error Description FF Sets the conditions under the set of the	or indicators, this setting has no affect on actual operation				
	1.	Press the start k Note: Since this r Display ALARM LED O DATE PATTER	Description           FF         Sets the conditions under the sets the date format.	or indicators, this setting has no affect on actual operation on which an error indicator turns off.				
	1.	Press the start k Note: Since this r Display ALARM LED O	FF Sets the conditions under Sets the date format. Sets if the image scanning Sets if the scanning densit	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized.				
	1.	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK	FF Sets the conditions under V Sets the date format. Sets if the image scanning Sets if the scanning densit Sets whether to skip unreg	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers				
	1.	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP	FF Sets the conditions under Sets if the image scanning Sets whether to skip unreg and one-touch key number	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list.				
	1. Set	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP	FF Sets the conditions under V Sets the date format. Sets if the image scanning Sets if the scanning densit Sets whether to skip unreg	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off				
	1. Set	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP	FF Sets the conditions under Sets the date format. Sets if the image scanning Sets if the scanning densit Sets whether to skip unreg and one-touch key number	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. histered abbreviated numbers rs on the list. cator turns off he setting.				
	1. Set	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the condition Enter 1 or 2 usin	Description         Description         FF       Sets the conditions under the sets if the image scanning Sets if the scanning densite Sets whether to skip unregrand one-touch key number         Ons       under which an error indice get the numeric keys to change the scange the numeric keys to change the numeric keys to change the numeric keys to change the numeric indicator turns off	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off the setting.				
	1. Set	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the condition Enter 1 or 2 usin Display 1: RESET	Description         Description         FF       Sets the conditions under vertice         Sets the date format.       Sets if the image scanning         Sets if the scanning densite       Sets whether to skip unrege         Sets whether to skip unrege       and one-touch key number         Sets under which an error indice       Description         An error indicator turns off reset key is pressed.       Description	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off re setting. on only when the				
	1. Set	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the conditic Enter 1 or 2 usin Display	Description         Description         FF       Sets the conditions under the sets if the image scanning Sets if the scanning densite Sets whether to skip unregrand one-touch key number         Ons       under which an error indice get the numeric keys to change the scange the numeric keys to change the numeric keys to change the numeric keys to change the numeric indicator turns off	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off re setting. on only when the when any key is				
	1. Set 1.	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the condition Enter 1 or 2 usin Display 1: RESET 2: COMM	Description           FF         Sets the conditions under vertice           Sets the date format.         Sets if the image scanning           Sets if the scanning densite         Sets whether to skip unrege           and one-touch key number         Sets the numeric keys to change the           Descriptic         An error indicator turns off           reset key is pressed.         An error indicator turns off           An error indicator turns off         pressed, an original is insee           transmission is started.         Sets transmission is started.	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off re setting. on only when the when any key is				
	1. Sett 1. 2. 3.	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the conditic Enter 1 or 2 usin Display 1: RESET 2: COMM Press the start k To return to the s	Description           FF         Sets the conditions under vertice           Sets the date format.         Sets if the image scanning           Sets if the scanning densite         Sets whether to skip unrege           and one-touch key number         Sets whether to skip unrege           ons under which an error indic         Description           An error indicator turns off         reset key is pressed.           An error indicator turns off         pressed, an original is inset           transmission is started.         ey. The value is set.	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. histered abbreviated numbers rs on the list. cator turns off re setting. on only when the when any key is rted or the next				
	1. Sett 1. 2. 3. Sett Seld	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the condition Enter 1 or 2 usin Display 1: RESET 2: COMM Press the start k To return to the s ting the date for ects the date for	Description           FF         Sets the conditions under vertice           Sets the date format.         Sets if the image scanning           Sets if the scanning densite         Sets whether to skip unrege           and one-touch key number         Sets whether to skip unrege           ons under which an error indic         Description           An error indicator turns off         reset key is pressed.           An error indicator turns off         pressed, an original is inset           transmission is started.         ey. The value is set.	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off re setting. on only when the when any key is rted or the next ss the stop/clear key.				
	1. Sett 1. 2. 3. Sett Seld	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the condition Enter 1 or 2 usin Display 1: RESET 2: COMM Press the start k To return to the s ting the date for ects the date for	Description           FF         Sets the conditions under vertices           Sets the date format.         Sets if the image scanning           Sets if the scanning densite         Sets whether to skip unrege           and one-touch key number         Sets whether to skip unrege           ons under which an error indic         Description           An error indicator turns off         reset key is pressed.           An error indicator turns off         pressed, an original is insee           transmission is started.         Event           event         The value is set.           screen for selecting an item, present         mat	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off re setting. on only when the when any key is rted or the next ss the stop/clear key.				
	1. Sett 1. 2. 3. Sett Seld	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the condition Enter 1 or 2 usin Display 1: RESET 2: COMM Press the start k To return to the s ting the date for ects the date form Change the setti	Description         Description         FF       Sets the conditions under the sets if the image scanning sets if the scanning densite. Sets whether to skip unrege and one-touch key number ons under which an error indicator turns off reset key is pressed. An error indicator turns off pressed, an original is inset transmission is started.         An error indicator turns off pressed, an original is inset transmission is started.         ey. The value is set.         screen for selecting an item, presmat on the respective reports and on the numeric keys.	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off re setting. on only when the when any key is rted or the next ss the stop/clear key.				
	1. Sett 1. 2. 3. Sett Seld	Press the start k Note: Since this r Display ALARM LED O DATE PATTER RESO. LOCK DENS. LOCK REPORT SKIP ting the conditic Enter 1 or 2 usin Display 1: RESET 2: COMM Press the start k To return to the s ting the date for ects the date form Change the setti Display	Description         Description         FF       Sets the conditions under vertices         Sets the date format.       Sets if the image scanning         Sets if the scanning densite       Sets whether to skip unrege         Sets whether to skip unrege       and one-touch key number         Ons under which an error indic       Description         An error indicator turns off       reset key is pressed.         An error indicator turns off       pressed, an original is inset         transmission is started.       ey. The value is set.         screeen for selecting an item, present       mat         mat       Order	or indicators, this setting has no affect on actual operation on which an error indicator turns off. quality in fax mode is initialized. y in fax mode is initialized. istered abbreviated numbers rs on the list. cator turns off re setting. on only when the when any key is rted or the next ss the stop/clear key.				

n No.			Description			
606	Setting if the image scanning quality in fax mode is initialized Sets if the resolution is to be initialized when fax operation is complete.					
ont.)			to be initialized when fax operation is complete. the numeric keys to change the setting.			
	'.	Display	Description			
		1: ON	Resolution is initialized.			
		2: OFF	Resolution is not initialized.			
	2.	Press the start key	. The value is set.			
	3.	To return to the sc	reen for selecting an item, press the stop/clear ke	у.		
			ng density in fax mode is initialized			
			ensity is initialized when fax operation is complete the numeric keys to change the setting.			
		Display	Description			
		1: ON	Density is initialized.			
		2: OFF	Density is not initialized.			
		Press the start key				
			reen for selecting an item, press the stop/clear ke			
			kip unregistered abbreviated numbers and one nregistered abbreviated numbers and one-touch			
			the numeric keys to change the setting.	key numbers on the list.		
		Display	Description			
		1: ON	Unregistered numbers are skipped.			
		2: OFF	Unregistered numbers are not skipped.			

nce	Description										
	Setting the system (communication 1)										
	Description										
		•	fax tran	smission regarding th	e commu	inication.					
	Sta	irt									
				e screen for selecting	an item i	s displayed.					
	2.	Press the app									
				ected item appears.	• ••		_				
		Display	/		cription		_				
		INTERVAL TIMES		Sets the auto rediali							
		TX SPEED		Sets the number of the Sets the communication of the sets the set of the set		•					
		RX SPEED		Sets the reception s		ing speed.					
		REMOTE		Sets the mode for re		itching.					
		CALL INT		Sets the transmissic		-					
		DC LOOP		Sets the loop curren			g.				
		DIS 4BYTE		Sets the DIS signal	to 4 bytes	3.					
	Set	ting the auto	redialing	g interval							
				vent the following prot						too short i	redia
				n takes too much time	e to comp	lete due to too	long re	edial ir	nterval.		
	1.	Change the se	-	ng the numeric keys.	0.		1				
				cription		tting range					
		Redialing inte	erval		1 to	9 min.					
	2. Press the start key. The value is set.										
							]				
				e value is set. I for selecting an item	press th	e stop/clear ke	y.				
	3. <b>Set</b>	To return to th t <b>ting the num</b> t	e screen <b>ber of tin</b>	for selecting an item		e stop/clear ke	y.				
	3. <b>Set</b>	To return to th t <b>ting the num</b> t	e screen <b>ber of tin</b>	for selecting an item		e stop/clear ke	у.				
	3. <b>Set</b>	To return to th t <b>ting the num</b> t	e screen <b>per of tin</b> etting usi	for selecting an item		e stop/clear ke tting range	<b>y.</b>				
	3. <b>Set</b>	To return to th t <b>ting the num</b> t	e screen per of tin etting usi Desc	for selecting an item nes of auto redialing ng the numeric keys.		tting range	y.				
	3. <b>Set</b> 1.	To return to th tting the numb Change the se Number of re	e screen per of tin etting usi Desc edialing	n for selecting an item nes of auto redialing ng the numeric keys. cription	Se	tting range	y.				
	3. <b>Set</b> 1.	To return to th tting the numb Change the se Number of re	e screen per of tin etting usi Desc edialing , no redia	o for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed.	Se	tting range	y.				
	3. <b>Set</b> 1. 2.	To return to the ting the numb Change the set Number of re When set to 0 Press the star	e screen oer of tin etting usi Desc edialing , no redia t key. The	o for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed.	Se 0 to	<b>tting range</b> 9					
	<ol> <li>3.</li> <li>Set</li> <li>2.</li> <li>3.</li> <li>Set</li> </ol>	To return to the ting the numb Change the set Number of re When set to 0 Press the star To return to the ting the comment	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunicatio	a for selecting an item nes of auto redialing ing the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed	I 0 to press th	<b>tting range</b> 9 e stop/clear ke	) y.				
	<ol> <li>3.</li> <li>Set</li> <li>3.</li> <li>Set</li> <li>Set</li> </ol>	To return to the ting the numb Change the set Number of re When set to 0 Press the star To return to the ting the comments the initial comments	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication	a for selecting an item <b>nes of auto redialing</b> ing the numeric keys. <b>cription</b> aling is performed. e value is set. a for selecting an item <b>on starting speed</b> ion speed when starti	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bilit
	3. Set 3. Set V.34	To return to the ting the numb Change the set Number of re When set to 0 Press the star To return to the ting the communication s the initial com 4 is selected for	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication munication	a for selecting an item <b>nes of auto redialing</b> ing the numeric keys. <b>cription</b> aling is performed. e value is set. a for selecting an item <b>on starting speed</b> tion speed when starti ission, regardless of t	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bility
	3. Set 3. Set V.34	To return to the ting the numb Change the set Number of re When set to 0 Press the star To return to the ting the commens the initial com 4 is selected for Change the set	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication munication	a for selecting an item nes of auto redialing ng the numeric keys. ription aling is performed. e value is set. for selecting an item on starting speed ion speed when starti ission, regardless of t ng the numeric keys.	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bility
	3. Set 3. Set V.34	To return to the time the number of the number of received and the set to 0 Press the star. To return to the time the initial correct is selected for Change the set of Display	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication munication or transmetting usi	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bility
	3. Set 3. Set V.34	To return to the time the number of the number of received with the number of received with the number of received with the number of the time the selected for the number of the number	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen nunication munication or transm etting usi	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bility
	3. Set 3. Set V.34	To return to the ting the number of return to the change the set of Number of return to the ting the commentation of the initial commentation of the selected for Change the set of Display 1: 144 2: 96	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen munication munication or transm etting usi V.17, 1 V.17, 9	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bility
	3. Set 3. Set V.34	To return to the time the number of the number of received with the number of received with the number of received with the number of received the number of received the number of the	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen munication or transm etting usi V.17, 1 V.17, 9 V.27ter	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps r, 4800 bps	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bility
	<ol> <li>3.</li> <li>Set:</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> </ol>	To return to the time the number of return to the change the set of Number of return to the time the initial commutation of the	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen nunication or transm etting usi V.17, 1 V.17, 9 V.27ter V.27ter	a for selecting an item nes of auto redialing ng the numeric keys. ription aling is performed. e value is set. for selecting an item on starting speed ion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps r, 4800 bps r, 2400 bps	I Se 0 to	<b>tting range</b> 9 e stop/clear ke nission. When t	) y.	tinatio	n unit ha	s V.34 capa	bility
	<ol> <li>3.</li> <li>Set:</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> </ol>	To return to the time the number of the number of received and the set of the	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication munication transmetting usi V.17, 1 V.17, 9 V.27ter t key. The	a for selecting an item nes of auto redialing ing the numeric keys. cription aling is performed. e value is set. for selecting an item on starting speed ion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps c, 4800 bps c, 2400 bps e value is set.	I Se 0 to press th ng transn his settin	<b>tting range</b> 9 e stop/clear ke nission. When t g.	y. he dest	tinatio	n unit ha	s V.34 capa	bilit
	<ol> <li>3.</li> <li>Set:</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> <li>3.</li> </ol>	To return to the ting the number of return to the change the set of Number of return to the ting the commentation of the comme	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen munication r transm etting usi V.17, 1 V.17, 1 V.17, 9 V.27ter V.27ter t key. The e screen	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps 7, 4800 bps 7, 2400 bps e value is set. a for selecting an item	I Se 0 to press th ng transn his settin	<b>tting range</b> 9 e stop/clear ke nission. When t g.	y. he dest	tinatio	n unit ha	s V.34 capa	bilit
	3. Set: 1. 2. 3. Set: V.34 1. 2. 3. Set: 3. Set: 3.	To return to the time the number of return to the change the set of Number of return to the time the set of the set of the commentation of the commentation of the commentation of the set of the change the set of the set of the change the set	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen munication or transm etting usi V.17, 1 V.17, 9 V.27ter V.27ter t key. The e screen otion spe	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps r, 4800 bps r, 2400 bps e value is set. a for selecting an item ed	Se     O to      press th      ng transn his settin      press th      press th	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke	y. he desi				
	3. Set: 1. 2. 3. Set: V.3 <sup>2</sup> 1. 2. 3. Set: Set: Set:	To return to the time the number of return to the change the set of Number of return to the time the set of th	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication r transm etting usi V.17, 1 V.17, 9 V.27ter V.27ter t key. The e screen of the screen speed th	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed cion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps r, 4800 bps r, 2400 bps e value is set. a for selecting an item ced hat the sender is infor	Se       0 to       press th       ng transm       his settin	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke sing the DIS or	y. he desi				
	<ul> <li>3.</li> <li>Set:</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>Se:</li></ul>	To return to the time the number of return to the change the set of Number of return to the time the set of th	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen nunication transm etting usi V.17, 1 V.17, 9 V.27ter V.27ter t key. The e screen of the screen speed the y, V.34 is	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps r, 4800 bps r, 2400 bps e value is set. a for selecting an item ed	Se       0 to       press th       ng transm       his settin	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke sing the DIS or	y. he desi				
	<ul> <li>3.</li> <li>Set:</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>Se:</li></ul>	To return to the time the number of return to the change the set of Number of return to the time the set of th	e screen ber of tin etting usi Desc edialing , no redia t key. The e screen nunication transm etting usi V.17, 1 V.17, 9 V.27ter V.27ter t key. The e screen of the screen speed the y, V.34 is	a for selecting an item nes of auto redialing ing the numeric keys. cription aling is performed. e value is set. for selecting an item on starting speed ion speed when starti ission, regardless of t ing the numeric keys. Description 4400 bps 600 bps c, 4800 bps c, 2400 bps e value is set. for selecting an item sed hat the sender is infor selected, regardless	Se       0 to       press th       ng transm       his settin	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke sing the DIS or	y. he desi				
	<ul> <li>3.</li> <li>Set:</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>Se:</li></ul>	To return to the ting the number Change the second Number of re- When set to 0 Press the star To return to the ting the comment is the initial comment is the initial comment is selected for Change the second Display 1: 144 2: 96 3: 48 4: 24 Press the star To return to the ting the reception is V.34 capability Change the second V.34 capability Change the second Change the second V.34 capability Change the second Change the second V.34 capability Change the second V.34 capability V.34 capability V.34 capability V.34 capability V.34 capability V.34 capability	e screen per of tin etting usi Desc edialing , no redia t key. The e screen nunication nunication r transm etting usi V.17, 1 V.17, 1 V.17, 1 V.17, 9 V.27ter t key. The e screen of the screen speed the y. V.34 is etting usi	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps r, 4800 bps r, 2400 bps e value is set. a for selecting an item sed hat the sender is infor selected, regardless ng the numeric keys. Description	Se       0 to       press th       ng transm       his settin	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke sing the DIS or	y. he desi				
	<ul> <li>3.</li> <li>Set:</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>Se:</li></ul>	To return to the ting the number of return to the change the set of Number of return to the ting the commentation of the initial commentation of the initial commentation of the initial commentation of the selected for the change the selected for Change the set of the selected for Change the set of the selected for Change the set of Ch	e screen per of tin etting usi Desc edialing , no redia t key. The e screen nunication nunication r transm etting usi V.17, 1 V.17, 1 V.17, 1 V.17, 9 V.27ter t key. The e screen of the screen speed the y. V.34 is etting usi	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed tion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps r, 4800 bps r, 2400 bps e value is set. a for selecting an item sed hat the sender is infor selected, regardless ng the numeric keys. Description 4.33, V.29, V.27ter	Se       0 to       press th       ng transm       his settin	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke sing the DIS or	y. he desi				
	<ul> <li>3.</li> <li>Set:</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>Se:</li></ul>	To return to the time the number of return to the change the set of Number of return to the time the set of th	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication r transm etting usi V.17, 1 V.17, 1 V.17, 9 V.27ter t key. The e screen of the scre	a for selecting an item nes of auto redialing ing the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed ion speed when starti ission, regardless of t ing the numeric keys. Description 4400 bps 600 bps c, 4800 bps c, 2400 bps e value is set. a for selecting an item bed hat the sender is infor selected, regardless ing the numeric keys. Description 4.33, V.29, V.27ter 4.27ter	Se       0 to       press th       ng transm       his settin	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke sing the DIS or	y. he desi				
	<ul> <li>3.</li> <li>Set:</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>V.3<sup>2</sup></li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set:</li> <li>Se:</li></ul>	To return to the ting the number of respective to the set of the s	e screen ber of tin etting usi Desc dialing , no redia t key. The e screen nunication r transm etting usi V.17, 1 V.17, 1 V.17, 9 V.27ter t key. The e screen of the scre	a for selecting an item nes of auto redialing ng the numeric keys. cription aling is performed. e value is set. a for selecting an item on starting speed cion speed when starti ission, regardless of t ng the numeric keys. Description 4400 bps 600 bps c, 4800 bps c, 2400 bps e value is set. a for selecting an item bed hat the sender is infor selected, regardless ng the numeric keys. Description 4.33, V.29, V.27ter 4.27ter	Se       0 to       press th       ng transm       his settin	tting range 9 e stop/clear ke nission. When t g. e stop/clear ke sing the DIS or	y. he desi				

elephone connect Eleph	etection me ted to the r sing the nu ay rt key. The v ne screen for smission in m time rec completed ting and po etting using 10 s 30 s 70 s	thod for remote switching. nachine. meric keys to change the <b>Descriptic</b> One-shot detection Continuous detection value is set. or selecting an item, press <b>htervals</b> juired for connection to	the stop/clear key. the line for the next transmis ansmission problems occur d	ssion after the previou			
Displation 1: ONE 1: ONE 2: CONT 2. Press the star 3. To return to the etting the trans ets the minimur ansmission was uch as broadcas 1. Change the se Display 1: 10 2: 30 3: 70 4: 120	ay rt key. The view of the screen for smission in m time reconcepted ting and por etting using 10 s 30 s 70 s	Description One-shot detection Continuous detection value is set. or selecting an item, press netervals juired for connection to l. Change the setting if tr illing transmission, or rese the numeric keys.	the stop/clear key. the line for the next transmis ansmission problems occur d				
1: ONE 2: CONT 2. Press the star 3. To return to th etting the trans ets the minimur ansmission was uch as broadcas 1. Change the se Display 1: 10 2: 30 3: 70 4: 120	rt key. The value screen for smission in m time reconcerning and potenting and potenting using 10 s 30 s 70 s	One-shot detection Continuous detection value is set. or selecting an item, press <b>htervals</b> juired for connection to l. Change the setting if tr olling transmission, or rese the numeric keys.	the stop/clear key. the line for the next transmis ansmission problems occur d				
2: CONT 2. Press the star 3. To return to th etting the trans ets the minimur ansmission was uch as broadcas 1. Change the se Display 1: 10 2: 30 3: 70 4: 120	rt key. The value screen for smission in time record completed duting and porting and porting using 10 s 30 s 70 s	Continuous detection value is set. or selecting an item, press <b>itervals</b> juired for connection to l. Change the setting if tr illing transmission, or rese the numeric keys.	the line for the next transmis ansmission problems occur d				
<ul> <li>To return to the etting the translets the minimum ansmission was uch as broadcass</li> <li>Change the set</li> <li>Display</li> <li>1: 10</li> <li>2: 30</li> <li>3: 70</li> <li>4: 120</li> </ul>	ting and po etting using 10 s 30 s 70 s	or selecting an item, press ntervals juired for connection to I. Change the setting if tr olling transmission, or rese the numeric keys.	the line for the next transmis ansmission problems occur d				
ets the minimur ansmission was uch as broadcas I. Change the se Display 1: 10 2: 30 3: 70 4: 120	m time rec completed ting and po etting using 10 s 30 s 70 s	uired for connection to I. Change the setting if tr Illing transmission, or rese the numeric keys.	ansmission problems occur d				
1: 10 2: 30 3: 70 4: 120	30 s 70 s	Description	_				
2: 30 3: 70 4: 120	30 s 70 s						
3: 70 4: 120	70 s						
4: 120							
2. Press the star	120 s						
3 To return to th		/alue is set. or selecting an item, press					
ets if the loop cu	irrent detect		setting.	]			
1: ON	-	Performs loop current de	ection before dialing.				
2. Press the start key. The value is set.							
Setting the DIS signal to 4 bytes Sets if bit 33 and later bits of the DIS/DTC signal are sent.							
			-	]			
1: ON	_	Bit 33 and later bits of the	DIS/DTC signal are not sent.	-			
<ol> <li>To return to th completion ress the stop/cle</li> </ol>	ne screen fo	or selecting an item, press		maintenance item No. is			
	<ol> <li>Enter 1 or 2 u         Displ             1: ON             2: OFF         </li> <li>Press the state         To return to the      </li> <li>Enter 1 or 2 u      <li>Enter 1 or 2 u         </li> <li>Enter 1 or 2 u         </li> <li>Displ         1: ON             2: OFF         </li> <li>Enter 1 or 2 u         </li> <li>Displ         </li> <li>Enter 1 or 4 u         </li> <li>Enter 1 or 5 u         </li> <li>Enter 1 or 5 u         </li> <li>Enter 1 or 6 u         </li> <li>Enter 1 or 6 u         </li> <li>Enter 1 or 6 u         </li> <li>Enter 1 or 7 u         </li> <li>Enter 1 or 7 u         </li> <li>Enter 1 or 7 u         </li> </li></ol>	<ol> <li>Enter 1 or 2 using the nu</li> <li>Display         <ol> <li>1: ON</li> <li>2: OFF</li> </ol> </li> <li>Press the start key. The vision of the screen for etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 32 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 32 and later bits of the etting the DIS signal to 4 ets if bit 32 and later bits of the etting the DIS signal to 4 ets if bit 32 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 ets if bit 33 and later bits of the etting the DIS signal to 4 etting the DIS si</li></ol>	Display       Des         1: ON       Performs loop current det         2: OFF       Does not perform loop cu         2. Press the start key. The value is set.       3.         3. To return to the screen for selecting an item, press       ets if bit 33 and later bits of the DIS/DTC signal are s         1. Enter 1 or 2 using the numeric keys to change the       Display         0       Display       Des         1: ON       Bit 33 and later bits of the DIS/DTC signal are s       1.         2: OFF       Bit 33 and later bits of the       Des         1: ON       Bit 33 and later bits of the       Des         1: ON       Bit 33 and later bits of the       Des         2: OFF       Bit 33 and later bits of the       Des         2: OFF       Bit 33 and later bits of the       Des         2: OFF       Bit 33 and later bits of the       Des         3: To return to the screen for selecting an item, press       Sempletion       Tess the stop/clear key at the screen for selecting an item	Display       Description         1: ON       Performs loop current detection before dialing.         2: OFF       Does not perform loop current detection before dialing.         2. Press the start key. The value is set.       Does not perform loop current detection before dialing.         3. To return to the screen for selecting an item, press the stop/clear key.       etting the DIS signal to 4 bytes         ets if bit 33 and later bits of the DIS/DTC signal are sent.       Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Bit 33 and later bits of the DIS/DTC signal are not sent.         2: OFF       Bit 33 and later bits of the DIS/DTC signal are not sent.         2: OFF       Bit 33 and later bits of the DIS/DTC signal are not sent.         2: OFF       Bit 33 and later bits of the DIS/DTC signal are sent.         2: OFF       Bit 33 and later bits of the DIS/DTC signal are sent.         3: To return to the screen for selecting an item, press the stop/clear key.         completion         ress the stop/clear key at the screen for selecting an item. The screen for selecting an item. The screen for selecting an item.			

ance No.	Description							
-	Setting transmission							
D	Description							
N	Makes settings rega	rding fax transmission.						
-	Start							
	<ol> <li>Press the start k</li> <li>Press the appro</li> </ol>	ey. The screen for selecting an item is displayed.						
4		he selected item appears.						
	Display	Description						
	ERROR	Sets the method to process errors.						
	DIS-2 RES	Sets the number of times of DIS signal reception.						
	RTN CHECK	Sets the reference for RTN signal output.						
	TX ECHO	Sets the waiting period to prevent echo problems at the sende						
	RX ECHO	Sets the waiting period to prevent echo problems at the receiv	er.					
	ECM TX ECM RX	Sets ECM transmission. Sets ECM reception.						
		Sets the criteria for receiving a TCF signal 1.						
	CED FREQ.	Sets the frequency of the CED signal.						
		I to process errors						
		on is to be treated as an error if an RTN or PIN signal is received. d a transmission report is output.	in it is treated as an erro					
		ig the numeric keys to change the setting.						
	Display	Description						
	1: OK	Transmission is not treated as an error.						
	2: ERROR	Transmission is treated as an error.						
	_							
3 5 5	<ol> <li>To return to the s</li> <li>Setting the number</li> <li>Sets the number of time</li> </ol>	xey. The value is set. screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the	e correction measures fo					
3 5 5 1 1	3. To return to the s Setting the number Sets the number of to ransmission errors	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems.	e correction measures fo					
3 S S tr	<ol> <li>To return to the statistical statements</li> <li>Sets the number of the ransmission errors and the statement of the statement</li></ol>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. ng the numeric keys to change the setting.	e correction measures fo					
3 S S tr	<ol> <li>To return to the s</li> <li>Setting the number</li> <li>Sets the number of ti ransmission errors</li> <li>Enter 1 or 2 usir</li> <li>Display</li> </ol>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting. Description	e correction measures fo					
3 5 5 1 1	<ul> <li>To return to the s</li> <li>Setting the number</li> <li>Sets the number of tiransmission errors</li> <li>Enter 1 or 2 usir</li> <li>Display</li> <li>1: ONCE</li> </ul>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting. Description Responds to the first signal.	e correction measures fo					
3 5 5 1 1	<ol> <li>To return to the s</li> <li>Setting the number</li> <li>Sets the number of ti ransmission errors</li> <li>Enter 1 or 2 usir</li> <li>Display</li> </ol>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting. Description	e correction measures fo					
3 5 5 1 1	<ul> <li>3. To return to the s</li> <li>Setting the number of tiransmission errors a</li> <li>1. Enter 1 or 2 usin</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting. Description Responds to the first signal. Responds to the second signal. Responds to the setting.	e correction measures fo					
3 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	<ol> <li>To return to the statistical statements and the number of the statement of the</li></ol>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting. Description Responds to the first signal. Responds to the second signal. tey. The value is set. screen for selecting an item, press the stop/clear key.	e correction measures fo					
3 5 5 5 5 7 1 2 3 5 5 5	<ol> <li>To return to the stating the number of the state number of the ransmission errors and the state of the state</li></ol>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting. Description Responds to the first signal. Responds to the second signal. Responds to the second signal. Rey. The value is set. screen for selecting an item, press the stop/clear key. ce for RTN signal output						
3 5 5 5 5 5 7 1 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<ol> <li>To return to the stating the number of tist is the number of tist is the number of tist is the number of the state of of</li></ol>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the set. Screen for selecting an item, press the stop/clear key.  ce for RTN signal output te as the reference for RTN signal output. If transmission errors or						
3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<ol> <li>To return to the setting the number of transmission errors and transmission errors and the set of the set of</li></ol>	screen for selecting an item, press the stop/clear key. r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting. Description Responds to the first signal. Responds to the second signal. Responds to th						
3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<ol> <li>To return to the stating the number of the ransmission errors in the state of the ransmission errors in the state of the s</li></ol>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description Responds to the first signal. Responds to the second signal.  Responds to the sec						
3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<ol> <li>To return to the stating the number of transmission errors in the state of the number of the state of the sta</li></ol>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the secting an item, press the stop/clear key.  Ce for RTN signal output te as the reference for RTN signal output. If transmission errors or ey can be reduced by lowering this setting.  Description  Description						
3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<ul> <li>3. To return to the s</li> <li>Setting the number of tist</li> <li>Sets the number of tist</li> <li>Sets the number of tist</li> <li>I. Enter 1 or 2 usin</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referent</li> <li>Sets the error line radio and the sett</li> <li>Display</li> <li>1: Change the sett</li> <li>Display</li> <li>1: 5</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description Responds to the first signal. Responds to the second signal.  Responds to the second signal output.  Responds to the second signal output.  Responds to the second signal output. Responds to the second signal output. Responds to the second signal output. Responds to the second signal output. Responds to the second signal output. Responds to the second signal output. R						
3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<ol> <li>To return to the stating the number of transmission errors in the state of the number of the state of the sta</li></ol>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the secting an item, press the stop/clear key.  Ce for RTN signal output te as the reference for RTN signal output. If transmission errors or ey can be reduced by lowering this setting.  Description  Description						
3 S S tr 1 2 3 S S S q	<ul> <li>3. To return to the setting the number of transmission errors in transmission errors in the set of th</li></ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the secting an item, press the stop/clear key.  Ce for RTN signal output te as the reference for RTN signal output. If transmission errors or ey can be reduced by lowering this setting.  ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 10%						
3 <b>S</b> S trr 1 2 3 <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b>	<ul> <li>3. To return to the setting the number of the ransmission errors and the first set of the ransmission errors and the set of the ransmission errors and the set of the s</li></ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal output. If transmission errors of eye can be reduced by lowering this setting.  Responds to the reduced to the second signal output. Responds to the reduced to the second signal output. Responds to the reduced to the second signal output. Responds to the reduced to the second signal output. Responds the red						
3 S S T 1 23 S S T 1 23 S S T 1 23 S S T 1 22 S S S S T 1 22 S S S S T 1 22 S S S S S S S S S S S S S S S S S S	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usin</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal output. If transmission errors of ey can be reduced by lowering this setting.  Responds the numeric keys.  Responds the numeric keys.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. Responds to the second signal output. R						
3 S S T 1 23 S S G 1 2	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usin</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. If transmission errors or evalue is set. Ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 15% Error line rate of 15% Error line rate of 20%  Rey. The value is set.  Screen for selecting and the second signal output is set.  Responde the numeric keys.  Responde the n						
3 S S T 1 23 S S G 1 2	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usin</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. If transmission errors or evalue is set. Ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 15% Error line rate of 15% Error line rate of 20%  Rey. The value is set.  Screen for selecting and the second signal output is set.  Responde the numeric keys.  Responde the n						
3 S S T 1 23 S S G 1 2	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usin</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. If transmission errors or evalue is set. Ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 15% Error line rate of 15% Error line rate of 20%  Rey. The value is set.  Screen for selecting and the second signal output is set.  Responde the numeric keys.  Responde the n						
3 S S T 1 23 S S T 1 23 S S T 1 23 S S T 1 22 S S S S S S T 1 22 S S S S S S S S S S S S S S S S S S	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usin</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. If transmission errors or evalue is set. Ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 15% Error line rate of 15% Error line rate of 20%  Rey. The value is set.  Screen for selecting and the second signal output is set.  Responde the numeric keys.  Responde the n						
3 S S T 1 23 S S T 1 23 S S T 1 23 S S T 1 22 S S S S S S T 1 22 S S S S S S S S S S S S S S S S S S	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usir</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. If transmission errors or evalue is set. Ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 15% Error line rate of 15% Error line rate of 20%  Rey. The value is set.  Screen for selecting and the second signal output is set.  Responde the numeric keys.  Responde the n						
3 S S T 1 23 S S G 1 2	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usir</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. If transmission errors or evalue is set. Ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 15% Error line rate of 15% Error line rate of 20%  Rey. The value is set.  Screen for selecting and the second signal output is set.  Responde the numeric keys.  Responde the n						
3 S S T 1 23 S S T 1 23 S S T 1 23 S S T 1 22 S S S S T 1 22 S S S S T 1 22 S S S S S S S S S S S S S S S S S S	<ul> <li>3. To return to the s</li> <li>Setting the number of t</li> <li>ransmission errors a</li> <li>1. Enter 1 or 2 usir</li> <li>Display</li> <li>1: ONCE</li> <li>2: TWICE</li> <li>2. Press the start k</li> <li>3. To return to the s</li> <li>Setting the referen</li> <li>Sets the error line ra</li> <li>quality of the line, th</li> <li>1. Change the sett</li> <li>Display</li> <li>1: 5</li> <li>2: 10</li> <li>3: 15</li> <li>4: 20</li> <li>2. Press the start k</li> </ul>	screen for selecting an item, press the stop/clear key.  r of times of DIS signal reception imes to receive the DIS signal to once or twice. Used as one of the and other problems. Ing the numeric keys to change the setting.  Description  Responds to the first signal. Responds to the second signal.  Responds to the second signal.  Responds to the second signal.  Responds to the second signal output. If transmission errors or evalue is set. Ing using the numeric keys.  Description  Error line rate of 5% Error line rate of 15% Error line rate of 15% Error line rate of 20%  Rey. The value is set.  Screen for selecting and the second signal output is set.  Responde the numeric keys.  Responde the n						

Maintenance item No.	Description							
U608 (cont.)	Setting the waiting period to prevent echo problems at the sender Sets the period before a DCS signal is sent after a DIS signal is received. Used when problems occur due echoes at the sender.							
	1.	Enter 1 or 2 using	g the numeric keys to change th	ne setting.				
		Display	Description	า				
		1: 500 2: 300	Sends a DCS 500 ms after re Sends a DCS 300 ms after re					
	3.	To return to the s	ey. The value is set. creen for selecting an item, pre					
	Sets		-		r gnal is received. Used when problems			
	1.		the numeric keys to change the	-				
		Display	Descri	ption				
		1: 500 2: 75	Sends an NSF, CSI or DIS 50 Sends an NSF, CSI or DIS 75					
			ey. The value is set. creen for selecting an item, pre	ss the stop/clear ke	у.			
	To b		<b>ission</b> en reduction of transmission cos g the numeric keys to change th		ity than image quality.			
		Display	Descriptior	<u> </u>				
		1: ON 2: OFF	ECM transmission is enabled ECM transmission is disabled					
	<ul> <li>Setting ECM reception</li> <li>To be set to OFF when reduction of transmission costs is of higher priority than image quality.</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> </ul>							
		Display	Description	-				
		1: ON 2: OFF	ECM reception is enabled. ECM reception is disabled.					
			y. The value is set. creen for selecting an item, pre	ss the stop/clear ke	y.			
	Sets to e	s the maximum nu ase transmission	or receiving a TCF signal 1 umber of error bytes judged acc conditions if transmission error ng using the numeric keys.		ving a TCF signal. Used as a measure			
			Description	Setting range				
			d error bytes when detecting TCF	0 to 255				
			ey. The value is set. creen for selecting an item, pre	ss the stop/clear ke	у.			

Maintenance item No.				Descrip	otion			
U608 (cont.)	Setting the frequency of the CED signal Sets the frequency of the CED signal. Used as one of the measures to improve transmission performance for international communications.							
	1. Enter 1 or 2 using the numeric keys to change the frequency.         Display       Frequency of the CED signal							
		1: 2100	2100 Hz		Jigha			
		2: 1100	1100 Hz					
			key. The value is set. screen for selecting an item	, press tl	ne stop/clear ke	y.		
	Pre	<b>npletion</b> ss the stop/clea alayed.	ar key at the screen for selecti	ng an ite	m. The screen f	or selecting a maintenance item No. is		
U609	Des	ting communi cription	cation time					
		pose						
	Use	d mainly to imp	prove transmission performan	nce for in	ternational com	munications.		
	2.	Press the start Press the appr	key. The screen for selecting opriate item. the selected item appears.	an item	is displayed.			
		Display	Description					
		T0 T1	Sets the T0 time-out time. Sets the T1 time-out time.					
		T2	Sets the T2 time-out time.					
		Та	Sets the Ta time-out time.					
		Tb1	Sets the Tb1 time-out time.					
		Tb2 Tc	Sets the Tb2 time-out time. Sets the Tc time-out time.					
		Td	Sets the Td time-out time.					
	<ul> <li>Setting the T0 time-out time</li> <li>Sets the time before detecting a DIS signal after a dialing signal is sent. Depending on the quality of the exchange, or when the auto select function is selected at the destination unit, a line can be disconnected. Change the setting to prevent this problem.</li> <li>1. Change the setting using the numeric keys.</li> </ul>							
			Description	S	etting range	-		
		T0 time-out ti		30 1	to 90 s			
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>							
	<ul> <li>Setting the T1 time-out time</li> <li>Sets the time before receiving the correct signal after call reception. No change is necessary for this maintenance item.</li> <li>1. Change the setting using the numeric keys.</li> </ul>							
			Description		etting range			
		T1 time-out ti	me		to 90 s			
			key. The value is set. e screen for selecting an item	, press tl	ne stop/clear ke	y.		

Maintenance item No.	Description							
U609 (cont.)	<ul> <li>Setting the T2 time-out time</li> <li>The T2 time-out time decides the following.</li> <li>From CFR signal output to image data reception</li> <li>From image data reception to the next signal reception</li> <li>In ECM, from RNR signal detection to the next signal reception</li> <li>Change the setting using the numeric keys.</li> </ul>							
	Description Setting range Initial setting Change in value per step							
	T2 time-out time 1 to 255 69 100 ms							
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>							
	Setting the Ta time-out time In the fax/telephone auto select mode, sets the time to continue ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). A fax signal is received within the Ta set time, or the fax mode is selected automatically when the time elapses. In fax/telephone auto select mode change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys.							
	Description Setting range Initial setting							
	Ta time-out time 1 to 255 s 30							
	Ring detection Ring back tone send start Rings Start of fax reception Start of fax reception							
	Tb2							
	Figure 1-3-1 Ta/Tb1/Tb2 time-out time							
	<ul> <li>Setting the Tb1 time-out time</li> <li>In the fax/telephone auto select mode, sets the time to start sending the ring back tone after receiving a call a a fax machine (see figure 1-3-1). In fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.</li> <li>1. Change the setting using the numeric keys.</li> </ul>							
	Description Setting range Initial setting Change in value per step							
	Tb1 time-out time         1 to 255         20         100 ms							
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>							
	Setting the Tb2 time-out time In the fax/telephone auto select mode, sets the time to start ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select mode,							

telephone after receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Tb2 time-out time	1 to 255	80	100 ms

Press the start key. The value is set.
 To return to the screen for selecting an item, press the stop/clear key.

Maintenance item No.				Descr	ription
U609 (cont.)	In th tele In th	phone receives a c	he time to check all. Only the tele age the setting w	phone function i hen fax receptic	y triggers for shifting to fax reception after a connected is available if shifting is not made within the set Tc time. on is unsuccessful or a telephone fails to receive a call.
		Description	Setting range	-	
		Tc time-out time	1 to 255 s	60	
	~				
		Press the start key To return to the sci			the stop/clear key.
	Sets TAD not	) mode, change the	ime required to c setting when fay otherwise, the mo	k reception is un ode may be shif	status (fax), one of the triggers for Tc time check. In the successful or a telephone fails to receive a call. Be sure ted to fax while the unit is being used as a telephone.
		Description	Setting range		
		Td time-out time	1 to 255 s		
		Press the start key To return to the sci			the stop/clear key.
	Pre	<b>npletion</b> ss the stop/clear ke blayed.	ey at the screen fo	or selecting an it	tem. The screen for selecting a maintenance item No. is

). I			D	escription			
D 5	Setting the modem output level						
	Description						
5	Sets the modem output level.						
	Start						
			creen for selecting ar	n item is displayed.			
	<ol><li>Press the app The screen for</li></ol>		ed item appears.				
	Disp			iption			
	SGL LEVEL	-	Sets the modem ou	•	-		
	SGL OUTPI		Adjusts the modem				
S	Setting the mod	em output			_		
			machine in order to a	dapt to the line cha	acteristics.		
1	I. Change the s		the numeric keys.		_		
		Descrip	ption	Setting range			
	Modem out	out level		4 to 12			
	2 Bross the sta			1			
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>						
				ress the stop/clear k	ey.		
;		he screen fo	r selecting an item, p	ress the stop/clear k	ey.		
:	<ol> <li>To return to the Adjusting the mean to change is nection</li> </ol>	he screen fo nodem outp cessary from	r selecting an item, p <b>out level</b> n the factory default.	ress the stop/clear k	ey.		
:	<ol> <li>To return to the second second</li></ol>	he screen fo nodem outp cessary from	or selecting an item, p but level In the factory default. The numeric keys.	ress the stop/clear k	ey.		
:	<ol> <li>To return to the Adjusting the mean to change is nection</li> </ol>	he screen fo nodem outp cessary from	r selecting an item, p <b>out level</b> n the factory default.	ress the stop/clear k	ey.		
:	<ul> <li>3. To return to the model</li> <li>Adjusting the model</li> <li>No change is need</li> <li>1. Change the solution</li> <li>Setting</li> <li>12</li> </ul>	he screen fo nodem outp cessary from setting using 1.0 dBm	or selecting an item, p out level In the factory default. The numeric keys. Output level	ress the stop/clear k	ey.		
:	<ul> <li>3. To return to the Adjusting the mean of the second sec</li></ul>	he screen fo nodem outp cessary from setting using 1.0 dBm 0.75 dBm	or selecting an item, p out level In the factory default. The numeric keys. Output level	ress the stop/clear k	ey.		
:	<ul> <li>3. To return to the Adjusting the mean of the second sec</li></ul>	he screen fo he screen for hodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.5 dBm	or selecting an item, p out level In the factory default. The numeric keys. Output level	ress the stop/clear k	ey.		
:	3. To return to the <b>Adjusting the m</b> No change is need 1. Change the s Setting 12 11 10 9	he screen fo hodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.5 dBm 0.25 dBm	or selecting an item, p out level In the factory default. The numeric keys. Output level	ress the stop/clear k	ey.		
:	3. To return to the <b>Adjusting the m</b> No change is need 1. Change the s Setting 12 11 10 9 8	he screen fo hodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.5 dBm 0.25 dBm 0 dBm	or selecting an item, p out level in the factory default. the numeric keys. Output level	ress the stop/clear k	ey.		
:	3. To return to the Adjusting the mean of the second secon	he screen fo hodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.5 dBm 0.25 dBm 0 dBm -0.25 dBm	n selecting an item, p out level In the factory default. The numeric keys. Output level	ress the stop/clear k	ey.		
:	3. To return to the Adjusting the mean of the second secon	1.0 dBm 0.75 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm	n selecting an item, p out level n the factory default. the numeric keys. Output level	ress the stop/clear k	ey.		
:	3. To return to the Adjusting the mean of the second secon	he screen fo hodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.5 dBm 0.25 dBm 0 dBm -0.25 dBm	m selecting an item, p out level in the factory default. the numeric keys. Output level	ress the stop/clear k	ey.		
	3. To return to the Adjusting the model of the second seco	he screen fo nodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.25 dBm 0 dBm -0.25 dBm -0.25 dBm -0.5 dBm -0.75 dBm -0.75 dBm	n selecting an item, p out level In the factory default. The numeric keys. Output level	ress the stop/clear k	ey.		
	<ul> <li>3. To return to the Adjusting the mean of the second sec</li></ul>	he screen fo nodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.25 dBm 0 dBm -0.25 dBm -0.25 dBm -0.75 dBm -0.75 dBm rt key. The v	r selecting an item, p out level n the factory default. the numeric keys. Output level m m				
	<ul> <li>3. To return to the Adjusting the mean of the second sec</li></ul>	he screen fo nodem outp cessary from setting using 1.0 dBm 0.75 dBm 0.25 dBm 0 dBm -0.25 dBm -0.25 dBm -0.75 dBm -0.75 dBm rt key. The v	n selecting an item, p out level In the factory default. The numeric keys. Output level				

laintenance item No.	Description						
U611	G3 cable equalizer						
	Description Sets the G3 cable equalizer.						
	Start						
		. The screen for selecting an item is ate item.	s displayed.				
		selected item appears.					
	Display	Description	1				
	REG. G3 TX EQF REG. G3 RX EQI						
	Perform the following a	nission cable equalizer djustment to make the equalizer co using the numeric keys.	ompatible with the line characteristics.				
	Display	Description					
	1:0 2:18	0 km 1.8 km					
	3: 36	3.6 km 7.2 km					
	2. Press the start key	. The value is set.					
		een for selecting an item, press the	e stop/clear key.				
			ompatible with the line characteristics.				
	Display	Description					
	1:0	0 km					
	2: 18	1.8 km					
	3: 36 4: 72	3.6 km 7.2 km					
	2. Press the start key. The value is set.						
		een for selecting an item, press the	e stop/clear key.				
	<b>Completion</b> Press the stop/clear ke displayed.	y at the screen for selecting an iten	n. The screen for selecting a maintenance item No. is				

Maintenance item No.	Description									
U612	Setting the modem detection level									
	Description									
	Sets the modem detection le	evel.								
	Purpose									
	Used to improve the transmi	ssion performance wher	a low quality line i	s used.						
	Method									
	Press the start key. The curr	ent setting is displayed.								
	Setting 1. Change the setting using the numeric keys.									
		the numeric keys. Description								
	Display	•								
	1: 33 –33 dBm 2: 38 –38 dBm									
	3: 43 –43 dBm									
	4: 47 –47 dBm									
	2. Press the start key. The	value is set.								
	Completion									
	Press the stop/clear key. The	e screen for selecting a n	naintenance item N	lo. is displayed						
U613	Setting the DTMF output le									
	Description									
	Sets the DTMF output level	of a push-button dial tele	phone.							
	Purpose									
	Used if problems occur when	n sending a signal with a	push-button dial te	elephone.						
	Start									
	1. Press the start key. The		em is displayed.							
	<ol><li>Press the appropriate ite The screen for the select</li></ol>									
		ieu item appears.								
	Display	De	Description							
	DTMF TX LEVEL (H)	DTMF TX LEVEL (H) Sets the DTMF (high-frequency group) output level.								
	DTMF TX LEVEL (L) Sets the DTMF (low-frequency group) output level.									
	Setting									
	1. Change the setting using			1						
	Descri	•	Setting range	_						
	DTMF (high-/low-freque	ency group) output level	0 to 255							
	E.g.: When set to 8, the DTMF output level is –8 dBm.									
	2. Press the start key. The value is set.									
	3. To return to the screen for selecting an item, press the stop/clear key.									
	Completion									
	Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.									
	uispiayeu.									

itenance m No.				Description						
614	Adjusting the DTMF output level									
	Description									
	Adjusts the DTMF output level of a push-button dial telephone.									
	Purpose									
	No change is necessary from the factory default.									
	Start									
				screen for selecting an item is displayed.						
		Press the app								
	Г			ted item appears.						
	-	Display		Description						
		SGL LVL D		Adjusts the DTMF (high-frequency group) output level.						
		SGL LVL D	rmf (L)	Adjusts the DTMF (low-frequency group) output level.						
	Sett	ing								
	1. (	Change the s	etting using	g the numeric keys.						
		Setting	DTMF (hig	igh-/low-frequency group) output level						
	-	12	2.0 dBm							
		11	1.5 dBm							
		10	1.0 dBm							
		9	0.5 dBm							
		8	0 dBm							
		7	-0.5 dBm							
		6	–1.0 dBm –1.5 dBm							
		5 4	-1.5 dBm							
	L									
				value is set.						
	3	To return to th		value is set. or selecting an item, press the stop/clear key.						
	3. <b>Con</b>	To return to th n <b>pletion</b>	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo							
	3. <b>Con</b> Pres	To return to th n <b>pletion</b>	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						
	3. <b>Con</b> Pres	To return to th n <b>pletion</b> ss the stop/cle	ne screen fo	or selecting an item, press the stop/clear key.						

Setting the NCU         Description         Makes setting regarding the network control unit (NCU).         Purpose         To be set when installing the facsimile kit.         Start         1. Press the appropriate item.         The screen for the selected item appears.         Display       Description         DIAL TONE       Sets PSTN dial tone detection.         BUSY TONE       Sets PSTN dial tone detection.         PBX SETTIND       Setting for a PBX.         Setting the connection to PBX/PSTN       Setting to a PBX.         Setting the connected to the public switched telephone network.       1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description       1. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.       Setting PSTN dial tone is detected to check the telephone is off the hook when a fax is connected to tes witched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Display       Description         1. ON       Detects the dial tone.         2. OFF       Does not detect the dial tone.         2. OFF       Does not detect the dial tone.         2. OFF       Does not detect the dial tone.         2. OFF	Description         Makes setting regarding the network control unit (NCU).         Purpose         To be set when installing the facsimile kit.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item.         The screen for the selected item appears.         Display       Description         EXCHANGE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets PSTN dial tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1 : PSTN       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to a winche delephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detecting an i	e		Description						
Description           Makes setting regarding the network control unit (NCU).           Purpose           To be set when installing the facsimile kit.           Start           1. Press the appropriate item. The screen for the selected item appears. <u>EXCHANGE</u> <u>Sets</u> be start key. The screen for selection. <u>Busy Description</u> <u>EXCHANGE</u> <u>Sets</u> bers PSTN dial tone detection. <u>BUSY TONE</u> <u>Sets</u> busy tone detection. <u>BUSY TONE</u> <u>Sets</u> busy tone detection. <u>BUSY TONE</u> <u>Sets</u> busy tone detection. <u>PBX SETTING</u> <u>Setting for a PBX.</u> Setting the connection to PBX/PSTN <u>Selects if a fax is to be connected to either a PBX or public switched telephone network.</u> 1. Enter 1 or 2 using the numeric keys to change the setting. <u>Display</u> <u>Description</u> <u>1: PSTN</u> Connected to a PBX.           2. Press the start key. The value is set.           3. To return to the screen for selecting an item, press the stop/clear key.           Setting PSTN dial tone detected to check the telephone is off the hook when a fax is connected to switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting. <u>Display</u> <u>Description</u> <u>1: ONF</u> <u>Does not detected and the ila tone. <u>2: OFF</u> <u>Does not detected is anone.</u> <u>2: OFF</u> <u>Does not detec</u></u>	Description         Makes setting regarding the network control unit (NCU).         Purpose         To be set when installing the facsimile kit.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item.         The screen for the selected item appears.         Display       Description         EXCHANGE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets PSTN dial tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1 : PSTN       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to a winche delephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detecting an i	Setting the NCU								
Makes setting regarding the network control unit (NCU).         Purpose         To be set when installing the facsimile kit.         Start         1. Press the appropriate item.         The screen for the selected item appears.         Display       Description         EXCHANCE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets PSTN dial tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1. FSTN       Connected to the public switched telephone network.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.	Makes setting regarding the network control unit (NCU). Purpose To be set when installing the facsimile kit. Start  1. Press the start key. The screen for selecting an item is displayed. 2. Press the start key. The screen for selecting an item is displayed. 3. Press the start key. The screen for selecting an item is displayed. 3. Press the start key. The screen for the selected item appears.  Setting the connection to PBX/PSTN. BUSY TONE Sets Dusy tone detection. PBX SETTING Setting for a PBX.  Setting the connection to PBX/PSTN Selects if a fax is to be connected to either a PBX or public switched telephone network. 1. Enter 1 or 2 using the numeric keys to change the setting.     Display Description   1: PSTN Connected to the public switched telephone network.   2: PRX Connected to a PBX.    2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. Setting PSTN dial tone detection Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to xwitched telephone network. 1. Enter 1 or 2 using the numeric keys to change the setting.     2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.    2: OFF Does not detect the dial tone. 2: OFF   2: OFF Does not detect the dial tone. 3. To return to the screen for selecting an item, press the stop/clear key.    3. To return to the screen for selecting an item, press the stop/clear key.    4. Enter 1 or 2 using the numeric keys to change the setting. <b>Display Description</b> 1: ON     2: OFF     Does not detect the dial tone.     2: OFF									
To be set when installing the facsimile kit.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item.         The screen for the selected item appears.         Display       Description         EXCHANGE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets pSTN dial tone detection.         BUSY TONE       Sets busy tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1. PSTN       Connected to a PBX.         Setting PSTN dial tone detection         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1. ON       Detects the dial tone.         2. OFF       Does not detect the dial tone.         2. OFF       Does not detect the dial tone.         2. OFF       Does not detect the all tone. <t< td=""><td>To be set when installing the facsimile kit. Star  1. Press the start key. The screen for selecting an item is displayed. 2. Press the appropriate item. The screen for the selected item appears.           Display         Description           EXCHANGE         Sets the connection to PBX/PSTN.           DIAL TONE         Sets PSTN dial tone detection.           BUSY TONE         Sets busy tone detection.           BUSY TONE         Connected to either a PBX or public switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.         Setting PSTN dial tone detection           Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1. ON         Detects the dial tone.</td><td colspan="8">Makes setting regarding the network control unit (NCU).</td></t<>	To be set when installing the facsimile kit. Star  1. Press the start key. The screen for selecting an item is displayed. 2. Press the appropriate item. The screen for the selected item appears.           Display         Description           EXCHANGE         Sets the connection to PBX/PSTN.           DIAL TONE         Sets PSTN dial tone detection.           BUSY TONE         Sets busy tone detection.           BUSY TONE         Connected to either a PBX or public switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.         Setting PSTN dial tone detection           Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1. ON         Detects the dial tone.	Makes setting regarding the network control unit (NCU).								
Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item.         The screen for the selected item appears.         Display       Description         EXCHANGE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets busy tone detection.         BUSY TONE       Sets busy tone detection.         PBX SETTING       Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to a PBX.         2: PPX       Connected to a PBX.         2: PTX       Connected to a PBX.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1: Enter 1 or 2 using the numeric keys to change the setting.         1: ON       Detects the dial tone.         2: OFF       Does not detect the	Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item. The screen for the selected item appears.         Display       Description         EXCHANGE       Sets the connection to PBX/PSTN. DIAL TONE         BUSTY TONE       Sets busy tone detection. PBX SETTING         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PHX       Connected to a PBX.         2: PBX       Connected to a PBX.         2: Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dim tone.									
1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item.         The screen for the selected item appears.         Display       Description         EXCHANGE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets PSTN dial tone detection.         BUSY TONE       Sets busy tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         1. PSTN       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         1. Enter 1 or 2 using the numeric keys to change the setting.         2. OFF       Does not detect the dial tone.         2. OFF       Does not detect the dial tone.         2. OFF       Does not detect the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until 70 time-out time.	<ol> <li>Press the start key. The screen for selecting an item is displayed.</li> <li>Press the appropriate item. The screen for the selected item appears.         <ul> <li>Display</li> <li>Description</li> <li>EXCHANGE</li> <li>Sets the connection to PBX/PSTN. DIAL TONE</li> <li>Sets Sets PSTN dial tone detection. BUSY TONE</li> <li>Sets busy tone detection. PBX SETTING</li> <li>Setting the connection to PBX/PSTN</li> </ul> </li> <li>Setting the connection to PBX/PSTN</li> <li>Selects if a fax is to be connected to either a PBX or public switched telephone network.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.  </li> <li>Display</li> <li>Description         <ul> <li>1: PSTN</li> <li>Connected to the public switched telephone network.</li> <li>2: Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul> </li> <li>Seting PSTN dial tone detection</li> <li>Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.         <ul> <li>Display</li> <li>Description                 <ul> <li>1: ON</li> <li>Detects the dial tone.</li> <li>2: OFF</li> <li>Does not detect the dial tone.</li> <li>2: OFF</li> <li>Does not detection an item, press the stop/clear key.</li> </ul> </li> <li>Setting busy tone detection</li> <li>When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is de the busy tone is not detected and the line remains connected intimediately after a busy tone is dethe busy tone is not detected and the line remains</li></ul></li></ol>									
<ul> <li>2. Press the appropriate item. The screen for the selected item appears. </li> <li>Display Description EXCHANGE Sets the connection to PBX/PSTN. DIAL TONE Sets PSTN dial tone detection. BUSY TONE Sets busy tone detection. PBX SETTING Setting for a PBX. </li> <li>Setting the connection to PBX/PSTN Selects if a fax is to be connected to either a PBX or public switched telephone network. <ol> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>PSTN Connected to a PBX.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol> </li> <li>Setting PSTN dial tone detection Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network. <ol> <li>There 1 or 2 using the numeric keys to change the setting.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul> Setting PSTN dial tone detection Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network. 1. Enter 1 or 2 using the numeric keys to change the setting. Display Detects the dial tone. 2. OFF Does not detect the dial tone. 2. OFF Does not detect the dial tone. 2. OFF Does not detect the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected on When a fax signal is sent, sets whether the line is disconnected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pi However, the line is not disconnected within the T0 time-out time even if the destination line is busy. 1. Enter 1 or 2 using the numeric keys to change the setting. Display Detects busy tone. 2. OFF	<ol> <li>Press the appropriate item. The screen for the selected item appears.         <ul> <li>Display Description</li> <li>EXCHANGE Sets the connection to PBX/PSTN. DIAL TONE Sets PSTN dial tone detection. BUSY TONE Sets busy tone detection. PBX SETTING Setting for a PBX.</li> </ul> </li> <li>Setting the connection to PBX/PSTN Selects if a fax is to be connected to either a PBX or public switched telephone network.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.         <ul> <li>Display Description</li> <li>1: PSTN Connected to the public switched telephone network.</li> <li>2: PBX Connected to a PBX.</li> </ul> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting PSTN dial tone detection</li> <li>Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> <ul> <li>Display Description</li> <li>1: ON Detects the dial tone.</li> <li>2: OFF Dees not detect the dial tone.</li> <li>2: OFF Dees not detect the dial tone.</li> <li>2: OFF Dees not detect the dial tone.</li> <li>3: To return to the screen for selecting an item, press the stop/clear key.</li> </ul> <li>Setting busy tone detection         <ul> <li>When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.</li> <li>Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy.</li></ul></li></ol>			· -· · · · · · · · · ·						
Display       Description         EXCHANGE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets SUSY tone detection.         BUSY TONE       Sets busy tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Setting the numeric keys to change the setting.         Display         Description         1: PSTN       Connected to the public switched telephone network.         2: PRS       Connected to a PBX.         Setting PSTN dial tone detection         Display         Description         1: ON       Detects the dial tone.         2: OFF         Does not detect the dial tone.         2: OFF         Does not detect the dial tone.         2: OFF       Does not detect the dia	Display       Description         EXCHANGE       Sets the connection to PBX/PSTN.         DIAL TONE       Sets PSTN dial tone detection.         BUSY TONE       Sets busy tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2: PBX       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2: Orrest the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.           1: ON       Detects the dial tone.           2: OFF       Does not detect the di									
Display         Description           EXCHANGE         Sets the connection to PBX/PSTN.           DIAL TONE         Sets PSTN dial tone detection.           BUSY TONE         Sets busy tone detection.           PBX SETTING         Setting for a PBX.           Setting the connection to PBX/PSTN         Setelects if a fax is to be connected to either a PBX or public switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.         Display           1 : PSTN         Connected to the public switched telephone network.           2: PBX         Connected to a PBX.           2: PRS         Connected to a PBX.           2: Press the start key. The value is set.         .           3. To return to the screen for selecting an item, press the stop/clear key.           Setting PSTN dial tone detection           Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.           1: ON         Detects the dial tone.           2: OFF         Does not detect the dial tone.           2: OFF         Does not detect the dial tone.           2: OFF         Does not detect the using is connected unimediately after a busy tone is det the busy tone is not detected and the line remains connected unimediately after a busy tone is det the	Display         Description           EXCHANGE         Sets the connection to PBX/PSTN.           DIAL TONE         Sets PSTN dial tone detection.           BUSY TONE         Sets busy tone detection.           PBX SETTING         Setting for a PBX.           Seteing the connection to PBX/PSTN           Selects if a fax is to be connected to either a PBX or public switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1: PSTN         Connected to the public switched telephone network.           2: PBX         Connected to a PBX.           2: PBX         Connected to a PBX.           3: To return to the screen for selecting an item, press the stop/clear key.           Setting PSTN dial tone detection           Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1: ON         Detects the dial tone.           2: OFF         Does not detect the dial tone.           2: OFF         Does not detect the dial tone.           2: OFF         Does not detection an item, press the stop/clear key.           Setting busy tone detected and the line remains co	Z.								
DIAL TONE       Sets PSTN dial tone detection.         BUSY TONE       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2: Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detecting an item, press the stop/clear key.         Setting busy tone detection       When a fax signal is sent, sets whether the line is disconnected until T0 time-out time.         2: Artansmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pr	DIAL TONE       Sets PSTN dial tone detection.         BUSY TONE       Sets busy tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2. Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected until TO time-out time.         2: OFF       Does not detect busy tone detection. When set to 2, this problem may be p									
DIAL TONE       Sets PSTN dial tone detection.         BUSY TONE       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2: Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detecting an item, press the stop/clear key.         Setting busy tone detection       When a fax signal is sent, sets whether the line is disconnected until T0 time-out time.         2: Artansmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pr	DIAL TONE       Sets PSTN dial tone detection.         BUSY TONE       Sets busy tone detection.         PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2. Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected until TO time-out time.         2: OFF       Does not detect busy tone detection. When set to 2, this problem may be p		EXCHANGE	Sets the connection to PBX/PSTN.						
PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detected on         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone detection         When a fax signal is sent, sets whether the line is disconnected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pr         However, the line is not disconnected within the T	PBX SETTING       Setting for a PBX.         Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Tor turn to the s									
Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect bug an item, press the stop/clear key.         Setting busy tone detection       When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pr However, the line is not disconnected within the T0 time-out time even if the destinatio	Setting the connection to PBX/PSTN         Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2. Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is de the busy tone is not detected and the line remains connected until TO time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the TO ti		BUSY TONE	Sets busy tone detection.						
Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2. Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Description       1: ON         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until To time-out time.         Fax transmission may fail due to incorrect busy tone detection.         1. Enter 1 or 2 using the numeric keys to change the	Selects if a fax is to be connected to either a PBX or public switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection.       When a fax signal is sent, sets whether the line is disconnected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection.       When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out t		PBX SETTING	G Setting for a PBX.						
1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection       Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.       Display         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be preserver, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1. Enter 1 or 2 using the numeric keys to change	1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: PSTN       Connected to the public switched telephone network.         2: PBX       Connected to a PBX.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is de the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time									
Display         Description           1: PSTN         Connected to the public switched telephone network.           2: PBX         Connected to a PBX.           2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.           Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.         Display           1: ON         Detects the dial tone.           2: OFF         Does not detect the dial tone.           2: OFF         Does not detect the dial tone.           3: To return to the screen for selecting an item, press the stop/clear key.           Setting busy tone detection           When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.           Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be put However, the line is not disconnected within the T0 time-out time even if the destination line is busy.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1: ON         Detects busy tone.           2: OFF         Does not detect busy tone.           2: O	Display         Description           1: PSTN         Connected to the public switched telephone network.           2: PBX         Connected to a PBX.           3. To return to the screen for selecting an item, press the stop/clear key.           Setting PSTN dial tone detection           Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1: ON         Detects the dial tone.           2: OFF         Does not detect the dial tone.           2: OFF         Does not detect the dial tone.           2: OFF         Does not detect the dial tone.           3. To return to the screen for selecting an item, press the stop/clear key.           Setting busy tone detection           When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detect busy tone is not detected and the line remains connected until T0 time-out time.           Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p           However, the line is not disconnected within the T0 time-out time.           Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p           However, the line is not disconnected within the T0 time-out time even if the destination line is busy.									
2: PBX       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be put However, the line is not disconnected within the T0 time-out time even if the destinat	2: PBX       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone. </td <td></td> <td></td> <td></td>									
2: PBX       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be put However, the line is not disconnected within the T0 time-out time even if the destinat	2: PBX       Connected to a PBX.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone. </td <td></td> <td>1: PSTN</td> <td>Connected to the public switched telephone network.</td>		1: PSTN	Connected to the public switched telephone network.						
<ul> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting PSTN dial tone detection Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network. <ol> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>ON Detects the dial tone.</li> <li>OFF Does not detect the dial tone.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol></li></ul> Setting busy tone detection When a fax signal is sent, sets whether the line is disconnected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be preprint to reason and the line remains connected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be preprint to reason the screen within the T0 time-out time even if the destination line is busy. 1. Enter 1 or 2 using the numeric keys to change the setting. Display Description 1: ON Detects busy tone. 2: OFF Does not detect busy tone. 3: OFF Does not detect busy tone. 3: OFF Does not detect busy tone. 4: OFF Does not detect busy tone. 5: OFF Does not detect busy t	<ul> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting PSTN dial tone detection Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network. <ol> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ol> </li> <li>Display Description <ol> <li>ON Detects the dial tone.</li> <li>OFF Does not detect the dial tone.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul> <li>Setting busy tone detection When a fax signal is sent, sets whether the line is disconnected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy. <ol> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ol> </li> <li>2. Press the start key. The value is set.</li>									
Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detect the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be preserver, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone. <t< td=""><td>Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.       2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.       2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.</td><td></td><td></td><td></td></t<>	Setting PSTN dial tone detection         Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.       2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.       2: OFF       Does not detect the dial tone.         3: To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.									
Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det         the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pu         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone. <td< td=""><td>Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.     &lt;</td><td>3.</td><td>To return to the</td><td>screen for selecting an item, press the stop/clear key.</td></td<>	Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.     <	3.	To return to the	screen for selecting an item, press the stop/clear key.						
switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det         the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pu         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2: OFF	switched telephone network.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is de the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2:	Sef	tting PSTN dial	tone detection						
1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det         the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predover, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.	1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is de the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2: OFF       Does not									
Display         Description           1: ON         Detects the dial tone.           2: OFF         Does not detect the dial tone.           3: To return to the screen for selecting an item, press the stop/clear key.           Setting busy tone detection           When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detet the busy tone is not detected and the line remains connected until T0 time-out time.           Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predowever, the line is not disconnected within the T0 time-out time even if the destination line is busy.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1: ON         Detects busy tone.           2: OFF         Does not detect busy tone.	Display         Description           1: ON         Detects the dial tone.           2: OFF         Does not detect the dial tone.           3. To return to the screen for selecting an item, press the stop/clear key.           Setting busy tone detection           When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.           Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p           However, the line is not disconnected within the T0 time-out time even if the destination line is busy.           1. Enter 1 or 2 using the numeric keys to change the setting.           Display         Description           1: ON         Detects busy tone.           2: OFF         Does not detect busy tone.           2: OFF         Does not detect busy tone.           2: OFF         Does not detect busy tone.									
1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det         the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pr         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.	1: ON       Detects the dial tone.         2: OFF       Does not detect the dial tone.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.	1.								
2: OFF       Does not detect the dial tone.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predover, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.	2: OFF       Does not detect the dial tone.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.									
<ul> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting busy tone detection</li> <li>When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time.</li> <li>Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predover, the line is not disconnected within the T0 time-out time even if the destination line is busy.</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display</li> <li>Detects busy tone.</li> <li>2: OFF</li> <li>Does not detect busy tone.</li> <li>2. Press the start key. The value is set.</li> </ul>	<ul> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting busy tone detection</li> <li>When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.</li> <li>Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy.</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display</li> <li>Detects busy tone.</li> <li>2: OFF</li> <li>Does not detect busy tone.</li> <li>2. Press the start key. The value is set.</li> </ul>									
<ul> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting busy tone detection When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det the busy tone is not detected and the line remains connected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predover, the line is not disconnected within the T0 time-out time even if the destination line is busy. 1. Enter 1 or 2 using the numeric keys to change the setting. Display Description 1: ON Detects busy tone. 2: OFF Does not detect busy tone. 2. Press the start key. The value is set.</li></ul>	<ul> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting busy tone detection When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy. <ol> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ol> Display Description <ol> <li>OFF</li> <li>Does not detect busy tone.</li> </ol> Press the start key. The value is set.</li></ul>		2: OFF	Does not detect the dial tone.						
Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det         the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predover, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.	Setting busy tone detection         When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p         However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display         Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.									
When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is det         the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predover, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.	When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is de the busy tone is not detected and the line remains connected until T0 time-out time.         Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.	3. To return to the screen for selecting an item, press the stop/clear key.								
the busy tone is not detected and the line remains connected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be pre- However, the line is not disconnected within the T0 time-out time even if the destination line is busy. 1. Enter 1 or 2 using the numeric keys to change the setting. Display Description 1: ON Detects busy tone. 2: OFF Does not detect busy tone. 2. Press the start key. The value is set.	the busy tone is not detected and the line remains connected until T0 time-out time. Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy. 1. Enter 1 or 2 using the numeric keys to change the setting. Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.									
Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be predimered within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.	<ul> <li>Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be p However, the line is not disconnected within the T0 time-out time even if the destination line is busy.</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.         <ul> <li>Display</li> <li>Description</li> <li>1: ON</li> <li>Detects busy tone.</li> <li>2: OFF</li> <li>Does not detect busy tone.</li> </ul> </li> <li>2. Press the start key. The value is set.</li> </ul>									
However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.	However, the line is not disconnected within the T0 time-out time even if the destination line is busy.         Display         Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.									
Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.	Display       Description         1: ON       Detects busy tone.         2: OFF       Does not detect busy tone.         2. Press the start key. The value is set.									
Display         Description           1: ON         Detects busy tone.           2: OFF         Does not detect busy tone.           2. Press the start key. The value is set.	Display         Description           1: ON         Detects busy tone.           2: OFF         Does not detect busy tone.           2. Press the start key. The value is set.									
1: ON     Detects busy tone.       2: OFF     Does not detect busy tone.       2. Press the start key. The value is set.	1: ON     Detects busy tone.       2: OFF     Does not detect busy tone.       2. Press the start key. The value is set.									
2: OFF     Does not detect busy tone.       2. Press the start key. The value is set.	2: OFF     Does not detect busy tone.       2. Press the start key. The value is set.									
2. Press the start key. The value is set.	2. Press the start key. The value is set.									
		2								
		0.		ישטיטטר זטי שטוטעוואן עד זנטוי, אופשט גווב שנטאיטובער אפע.						

item No.					Description					
U615	Set	ting for a PBX								
cont.)	Selects the mode to connect an outside call when connected to a PBX.									
	According to the type of the PBX connected, select the mode to connect an outside call. 1. Change the setting using the numeric keys.									
	••	Display			escription					
			E a utha			-				
		1: EARTH 2: FLS	Earth	mode ng mode						
		3: LOOP								
	2	3: LOOP     Code number mode       . Press the start key. The value is set.								
					tem, press the stop/clear ke	<i>\</i>				
		npletion		ar is belooting an is		<i>.</i>				
			kev at th	e screen for sel	ecting an item. The screen	for selecting a maintenance item No. is				
		played.			g					
U616	Adj	usting the ratio	of make	-to-break of di	ial pulses					
	-	scription			•					
			nake-to-k	oreak (ratio of n	nake in pulse cycles) of dia	l pulses.				
	-	pose		·						
			dial pul	se transmission	problems occur. Note that	20 PPS is for Japanese specifications				
	only	and no setting is	s necess	ary for other sp	pecifications.					
	Sta	rt								
					ting an item is displayed.					
		Press the approp								
		The screen for the selected item appears.								
		Display			Description	_				
		MAKE TIME (10								
		MAKE TIME (20	) PPS)	Make time (20	PPS)					
	Set	tina								
	Setting 1. Change the setting using the numeric keys.									
	1.	Change the setting			Cotting you go					
	1.	_	scriptio	n	Setting range					
	1.	Des	scriptio		Setting range	-				
	1.	Des Make time in the	e pulse o	cycle (10 PPS)	1 to 99 (ms)	-				
		Des Make time in the Make time in the	e pulse o e pulse o	cycle (10 PPS) cycle (20 PPS)	1 to 99 (ms)					
	2.	Des Make time in the Make time in the Press the start ke	e pulse o e pulse o ey. The v	cycle (10 PPS) cycle (20 PPS) value is set.	1 to 99 (ms) 1 to 49 (ms)					
	2. 3.	Des Make time in the Make time in the Press the start ke To return to the s	e pulse o e pulse o ey. The v	cycle (10 PPS) cycle (20 PPS) value is set.	1 to 99 (ms)	- ∋ ₽y.				
	2. 3. <b>Co</b> r	Des Make time in the Make time in the Press the start ke To return to the s mpletion	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke	ey. for selecting a maintenance item No. is				
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					
	2. 3. <b>Cor</b> Pre	Des Make time in the Make time in the Press the start ke To return to the s mpletion ss the stop/clear l	e pulse o e pulse o ey. The v screen fo	cycle (10 PPS) cycle (20 PPS) value is set. or selecting an it	1 to 99 (ms) 1 to 49 (ms) tem, press the stop/clear ke					

item No.	Description								
U617	Outputting lists								
	<b>Description</b> Outputs a list of data regarding fax transmissions.								
	Purpose								
	Used to check conditions of u	se, settings and transmission procedures of the fax.							
	Method								
	1. Press the start key. The so	creen for selecting an item is displayed.							
	2. Press the appropriate list selection. The selected list is output.								
	The selected list is output Display	Description							
	-								
	Display	Description           Outputs a list of software switches, self telephone number,							
	Display SETTING LIST	Description           Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information.           Outputs a list of error history, transmission line details							
	Display SETTING LIST ACTION LIST	DescriptionOutputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information. Outputs a list of error history, transmission line details and other information. Outputs a list of transmission speeds, resolutions, minimum transmission time and other information. Outputs a list of settings in maintenance mode							
	Display SETTING LIST ACTION LIST MONITOR LIST	DescriptionOutputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information. Outputs a list of error history, transmission line details and other information. Outputs a list of transmission speeds, resolutions, minimum transmission time and other information.							

nce D.	Description									
	Setting the system 1									
	<b>Description</b> Makes settings for fax reception regarding the sizes of the fax paper and received images and automa printing of the protocol list.									
	<ol> <li>Start</li> <li>Press the start key. The screen for selecting an item is displayed.</li> <li>Press the appropriate item. The screen for the selected item appears.</li> </ol>									
		Display				Description				
		CUT LINE (100%	)			r of lines	s to be i	gnored when		
		CUT LINE (AUTC	))		numbe	r of lines	s to be i	cation. gnored when ction mode.		
		CUT LINE (A4)		Sets the	numbe	r of lines	s to be i	gnored when he auto reduction		
		RX WIDTH 11" PROTOCOL PRT		Sets the				n specifications. le protocol list.		
	<ul> <li>Setting the number of lines to be ignored when receiving a fax at 100% magnification</li> <li>Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capace when recording the data at 100% magnification. If the number of excess lines is below the setting, those line are ignored. If over the setting, they are recorded on the next page.</li> <li>Change the setting using the numeric keys.</li> </ul>									
		Description	Settin	g range	Initial	setting	Chang	e in value per ste	p	
		Number of lines 0 to 2 to be ignored when receiving at 100%		2	2 3 6 lines					
	<ul> <li>Increase the setting if a blank second page is received, and decrease it if the received image does include the entire transmitted data.</li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul>									
	Set Set whe line the	ting the number of s the maximum nur en the data is record s are ignored. If ove same page. Change the setting	f lines nber of ded in t er the s	to be igr lines to l he auto re etting, the	ored w be ignor eductior e entire	<b>rhen rec</b> red if the mode. data on	eiving receive If the nu	a fax in the auto r ed data volume exc mber of excess line	ceeds the record es is below the s	ling capa etting, th
		Description				Initial	setting	Change in value	per step	
		Number of lines to be ignored when receiving in the auto reduction mode		0 to 22		3		6 lines		
	<ul> <li>Increase the setting if a page received in the reduction mode is over-reduced and too much tramargin is left. Decrease it if the received image does not include all transmitted data.</li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul>							trailing e		

Maintenance					Description					
item No.										
U650 (cont.)	Sets whe If the a pa • Wi • Wi	s the maximum nu en the data is reco	umber of l rded in the ss lines is iced so th nd folio at er present	ines to be ignor e auto reduction below the settin at it can be reco osent in the draw and legal-size p	ed if the receive mode onto A4R g, those lines a orded on the sar vers paper absent in	ed data volume exceeds the or letter-size paper under the re ignored. If over the setting ne page.	recording capacity e conditions below.			
		Descriptio	on	Setting range	Initial setting	Change in value per step				
		Number of lines to be ignored when receiving a fax (A4R, letter) the auto reduction	a in	0 to 22	3	6 lines				
	2. 3.	margin is left. Dec Press the start ke To return to the so	crease it it ey. The val creen for	f the received im ue is set. selecting an iten	nage does not in n, press the stop	ode is over-reduced and too nclude all transmitted data. p/clear key.	much trailing edge			
	<ul> <li>Setting the recording width for inch specifications</li> <li>Sets the maximum recording width and processing method when 11" width fax paper is loaded on an inch-specification machine.</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> </ul>									
		Display		Descr	iption					
		1: 11 × 17	records	at 100% magnifi	cations.	l" width as A3 width and				
		2: B4			estination unit 11	1" width as B4 width.				
		Press the start ke To return to the se			n proce the stor	o/clear key				
	Sets	ting the automat s if the protocol lis Change the settir	<b>ic printin</b> it is autom	g of the protoc	ol list out.	······································				
		Display			Description					
		1: OFF 2: ERROR	The protocol list is not printed out automatically. The protocol list is automatically printed out after communication only if a communication error occurs.							
	2.	3: ON       The protocol list is automatically printed out after communication.         2. Press the start key. The value is set.								
		To return to the se			n, press the stop	o/clear key.				
	<b>Completion</b> Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.									

	Description						
Setting the system 2							
Description							
	-	otation reception and the num	ber of a	djustme	nt lines	for auton	natic re
Sta							
		screen for selecting an item is	s displaye	ed.			
	Press the appropriate it						
l	The screen for the selec						_
l	Display		scriptior				
	ROTAT. RX ERR	Sets the variation range in for rotation reception.		-	-		
	ADJ LINES ADJ LINES (A4)	Sets the number of adjustr Sets the number of adjustr					
	ADJ LINES (LT)	when A4 paper is set. Sets the number of adjustr when letter size paper is se		s for aut	tomatic	reductior	n
Sets lines are perf	s the maximum number s in the rotation receptio ignored and rotation re formed.	ge in rotation reception of lines to be ignored when th n mode. If the number of exce ception is performed; if it is	essive lin	es is srr	naller that	an the se	et value
1.	Change the setting usin					1	
	I	Description		Setting	y range	Initial s	etting
	Number of variation lin	es in the auxiliary scanning d	irection	0 to 25	5	3	
	Even if rotation reception fails, it can be enabled by increasing this value, however, some parts of						some
			increasi	ing this	value, ł	however,	some
	received image may not	be printed.	increasi	ing this	value, ł	however,	some
2.	received image may not Press the start key. The	be printed.		-	value, ł	however,	some
2. 3. <b>Set</b> t	received image may not Press the start key. The To return to the screen f ting the number of adjustm s the number of adjustm	be printed. value is set. for selecting an item, press the <b>ustment lines for automatic</b> ent lines for automatic reducti	e stop/cle <b>reductic</b>	ear key.	value, ł	however,	some
2. 3. <b>Set</b> t	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin	be printed. value is set. or selecting an item, press the ustment lines for automatic ent lines for automatic reducti g the numeric keys.	e stop/cle <b>reductic</b> on.	ear key. on			some
2. 3. <b>Set</b> t	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Des	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducti g the numeric keys. cription	e stop/cle reductic on. Setting	ear key. on I range	value, ł		some
2. 3. <b>Set</b> t	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Des	be printed. value is set. or selecting an item, press the ustment lines for automatic ent lines for automatic reducti g the numeric keys.	e stop/cle <b>reductic</b> on.	ear key. on I range			some
2. 3. <b>Set</b> Sets 1.	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Number of adjustment Press the start key. The	be printed. value is set. for selecting an item, press the <b>ustment lines for automatic</b> ent lines for automatic reducti g the numeric keys. <b>cription</b> lines for automatic reduction	e stop/cle reductic on. Setting 0 to 22	ear key. on I range	Initial		some
2. 3. Sets 1. 2. 3.	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Des Number of adjustment Press the start key. The To return to the screen f	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducti g the numeric keys. cription lines for automatic reduction value is set.	e stop/cle reductio on. Setting 0 to 22 e stop/cle	ear key. on I range ear key.	Initial 3	setting	
2. 3. Sett 1. 2. 3. Sett Sets	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Des Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reduction	e stop/cle reductio on. Setting 0 to 22 e stop/cle reductio	ear key. on I range ear key. on wher	Initial 7	setting per is se	
2. 3. Sets 1. 2. 3. Sets Sets	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting g the numeric keys.	e stop/cle reductio on. Setting 0 to 22 e stop/cle reductio on when	ear key. on I range ear key. on wher A4 pap	Initial s 7 n A4 pa ber is set	setting per is se t.	
2. 3. Sett 1. 2. 3. Sett Sets	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reduction	e stop/cle reductio on. Setting 0 to 22 e stop/cle reductio on when	ear key. on I range ear key. on wher A4 pap	Initial s 7 n A4 pa ber is set	setting per is se	
2. 3. Sett 1. 2. 3. Sett Sets	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting g the numeric keys.	e stop/cle reductio on. Setting 0 to 22 e stop/cle reductio on when	ear key. on range ear key. on wher A4 pap range	Initial s 7 n A4 pa ber is set	setting per is se t.	
<ol> <li>2.</li> <li>3.</li> <li>Sets</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Sets</li> <li>1.</li> </ol>	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Des Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Change the setting usin Change the setting usin Press the start key. The Number of adjustment when A4 paper is set Press the start key. The	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting g the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting g the numeric keys. escription lines for automatic reduction value is set.	e stop/cle reductio on. Setting 0 to 22 e stop/cle reductio on when Setting 0 to 22	ear key. on range ear key. on wher A4 pap g range	Initial a 7 n A4 pa ber is set	setting per is se t.	
2. 3. Sett 1. 2. 3. Sett 1. Sets 1. 2. 3. Sett Sets 5. Sets Sets 5. Sets 5. Sets 5. Sets 5. Sets 5. Sets 5. Sets 5. Sets Sets Sets Sets Sets Sets Sets Sets	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Change the setting usin Change the setting usin Press the start key. The To return to the screen f twhen A4 paper is set Press the start key. The To return to the screen f ting the number of adjustm twhen A4 paper is set Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin	be printed. value is set. for selecting an item, press the ustment lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reducting the numeric keys. escription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction	e stop/cle reduction on. Setting 0 to 22 e stop/cle reduction 0 to 22 0 to 22 e stop/cle reduction 0 to 22	ear key. on range ear key. on wher A4 pap grange grange ear key. on wher letter s	Initial 7 <b>A4 pa</b> er is set Initial 22	setting per is set t. setting size pap er is set.	et
2. 3. Sett 1. 2. 3. Sett 1. Sets 1. 2. 3. Sett Sets 5. Sets Sets 5. Sets Sets Sets Sets Sets Sets Sets Sets	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Change the setting usin Change the setting usin Press the start key. The To return to the screen f twhen A4 paper is set Press the start key. The To return to the screen f ting the number of adjustm twhen A4 paper is set Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin	be printed. value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting g the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic ent lines for automatic reducting g the numeric keys. escription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction	e stop/cle reductic on. Setting 0 to 22 e stop/cle reductic on when Setting 0 to 22	ear key. on range ear key. on wher A4 pap grange grange ear key. on wher letter s	Initial 7 <b>A4 pa</b> er is set Initial 22	setting per is set t. setting size pap er is set.	et
2. 3. Sett 1. 2. 3. Sett 1. Sets 1. 2. 3. Sett Sets 5. Sets Sets 5. Sets Sets Sets Sets Sets Sets Sets Sets	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Number of adjustment when A4 paper is set Press the start key. The To return to the screen f ting the number of adjustment when A4 paper is set Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin	be printed. value is set. for selecting an item, press the ustment lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction ustment lines for automatic ent lines for automatic reduction ustment lines for automatic ent lines for automatic reduction lines for automatic reduction lines for automatic reduction	e stop/cle reduction on. Setting 0 to 22 e stop/cle reduction 0 to 22 0 to 22 e stop/cle reduction 0 to 22	ear key. on range ear key. on wher A4 pap range ear key. on wher letter si range	Initial 7 <b>A4 pa</b> er is set Initial 22	setting per is set t. setting size pap er is set.	et
2. 3. Sett 1. 2. 3. Sett 1. 2. 3. Sett 1. 2. 3. Sett 1. 3. Sett 1.	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Number of adjustment when A4 paper is set Press the start key. The To return to the screen f ting the number of adjustment when A4 paper is set Press the start key. The To return to the screen f ting the number of adjustment when A4 paper is set Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin	be printed. value is set. for selecting an item, press the ustment lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reducting the numeric keys. escription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction ustment lines for automatic reduction for selecting an item, press the ustment lines for automatic reducting the numeric keys. escription lines for automatic reduction is set	e stop/cle reductio on. Setting 0 to 22 e stop/cle reductio on when Setting 0 to 22 e stop/cle reductio on when	ear key. on range ear key. on wher A4 pap range ear key. on wher letter si range	Initial 7 n A4 pa ber is set Initial 22 n letter ize pape	setting per is set t. setting size pap er is set.	et
2. 3. <b>Sett</b> Sett 1. 2. 3. <b>Sett</b> 1. 2. 3. <b>Sett</b> 1. 3. <b>Sett</b> 1. Sets 1. 2. 3. <b>Sett</b> 2. 3. <b>Sett</b> 1. 2. 3. <b>Sett</b>	received image may not Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Number of adjustment Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Change the setting usin Change the setting usin Press the start key. The To return to the screen f ting the number of adjustment when A4 paper is set Press the start key. The To return to the screen f ting the number of adjustm Change the setting usin Change the setting usin Change the setting usin Change the setting usin To return to the screen f ting the number of adjustment when letter size paper Press the start key. The	be printed. value is set. for selecting an item, press the ustment lines for automatic reducting the numeric keys. cription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reducting the numeric keys. escription lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction value is set. for selecting an item, press the ustment lines for automatic reduction ustment lines for automatic reduction for selecting an item, press the ustment lines for automatic reducting the numeric keys. escription lines for automatic reduction is set	e stop/cle reductio on. Setting 0 to 22 e stop/cle reductio on when Setting 0 to 22 e stop/cle reductio on when Setting 0 to 22	ear key. on range ear key. on wher A4 pap g range ear key. on wher letter si range	Initial 7 n A4 pa ber is set Initial 22 n letter ize pape	setting per is set t. setting size pap er is set.	et

Maintenance item No.				Description		
U660	Set	ting the system (	communication	2)		
	<b>Description</b> Makes settings for fax transmission regarding the communication.					
		<b>pose</b> educe transmissio	on errors when a	low quality line is used.		
	Sta					
	2.	Press the start ke Press the approp The screen for the	riate item.	selecting an item is displayed.		
		Dis	splay	Desc	cription	
		TCF CHECK 2 SHORT PROTO SHORT PROTO NUMBER of CN	COL RX		ssion. ocol transmission. n the fax/telephone auto select mode.	
		1TOUCH ECM		Turns ECM for one-touch dialin	g on/off.	
	Set		ing time as a crite	<b>CF signal 2</b> erion for a received TCF signal. to change the setting.		
		Display		Description		
		1: LONG 2: SHORT	Checks for 1.0 s Checks for 0.8 s		_	
		Press the start ke		t. g an item, press the stop/clear ke	- 	
	Set Set	ting the short pro s if short protocol Change the settin	<b>otocol transmiss</b> transmission is po	sion erformed.		
		Display		Description		
		1: ON 2: OFF		ansmission is performed. ansmission is not performed.	-	
		Press the start ke To return to the so		t. g an item, press the stop/clear ke	у.	
	Sele	ects whether to re	ceive or ignore tra	ocol transmission ansmission using short protocol.	device is attached to the machine,	
	con sho		ems, including au ission to prevent	uto switching inability, sometimes such problems.	s occur. Change the setting to ignore	
	1.	Display		Description	]	
		1: ON 2: OFF		protocol transmission. otocol transmission.	_	
		Press the start ke To return to the so		t. g an item, press the stop/clear ke	у.	
	3.	To return to the so	creen for selecting	g an item, press the stop/clear ke	y.	

9260       Setting the CNG detection times in the fax/telephone auto select mode.         Cont.       1. Change the setting using the numeric keys.         2. 2 TIMES       Detects CNG once.         2. 2 TIMES       Detects CNG twice.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the CNG detection times in the fax/telephone auto select mode.         4. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting TECM for each one-touch key         Turns ECM on/off for each one-touch key         1. Enter 1 or gistered two-digit one-touch key number and press the start key.         2. Enter 1 or 2 using the numeric keys to change the setting.         1. Stapiar       Detect CNG for one-touch key number is displayed.         1. ON       ECM communication is performed for all one-touch key number is displayed.         1. Torn to the screen for selecting an item, press the stop/clear key at the screen for entering a one-tourn to the screen for selecting an item. The screen for selecting a maintenance item displayed.         3. Press the start key. The value is set. The screen for selecting a maintenance item displayed.         To return to the screen for selecting an item. The screen for selecting a maintenance item displayed.	intenance tem No.			Description
1. Change the setting using the numeric keys.         Display       Description         1: 1 TIME       Detects CNG once.         2: 2 TIMES       Detects CNG twice.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting ECM for each one-touch key       Turns ECM on/off for each one-touch key.         1. Enter a registered two-digit one-touch key number and press the start key.         2. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       ECM communication is performed for all one-touch keys.         2: OFF       Disables the ECM for one-touch keys.         3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.         Completion       Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item		Sett	ing the CNG de	tection times in the fax/telephone auto select mode
Display       Description         1: 1 TIME       Detects CNG once.         2: 2 TIMES       Detects CNG twice.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting ECM for each one-touch key       Turns ECM on/off for each one-touch key.         1. Enter a registered two-digit one-touch key number and press the start key.         2. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       ECM communication is performed for all one-touch keys.         2: OFF       Disables the ECM for one-touch keys.         3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.         Completion       Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item	cont.)	Sets	the CNG detect	tion times in the fax/telephone auto select mode.
1: 1 TIME       Detects CNG once.         2: 2 TIMES       Detects CNG twice.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting ECM for each one-touch key       Turns ECM on/off for each one-touch key.         1. Enter a registered two-digit one-touch key number and press the start key.         2. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       ECM communication is performed for all one-touch keys.         2: OFF       Disables the ECM for one-touch keys.         3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-touch key number.         Completion       Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item		1.		
2: 2 TIMES       Detects CNG twice.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting ECM for each one-touch key         Turns ECM on/off for each one-touch key.         1. Enter a registered two-digit one-touch key number and press the start key.         2. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       ECM communication is performed for all one-touch keys.         2: OFF       Disables the ECM for one-touch keys.         3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.         Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item				
<ul> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting ECM for each one-touch key</li> <li>Turns ECM on/off for each one-touch key.</li> <li>1. Enter a registered two-digit one-touch key number and press the start key.</li> <li>2. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>ON</li> <li>ECM communication is performed for all one-touch keys.</li> <li>OFF</li> <li>Disables the ECM for one-touch keys.</li> </ol> </li> <li>3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-touch key at the screen for selecting an item. The screen for selecting a maintenance item</li> </ul>				
Turns ECM on/off for each one-touch key.         1. Enter a registered two-digit one-touch key number and press the start key.         2. Enter 1 or 2 using the numeric keys to change the setting.         Display         Description         1: ON       ECM communication is performed for all one-touch keys.         2: OFF       Disables the ECM for one-touch keys.         3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.         Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item				
<ol> <li>Enter a registered two-digit one-touch key number and press the start key.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.         <ul> <li>Display</li> <li>Description</li> <li>1: ON</li> <li>ECM communication is performed for all one-touch keys.</li> <li>2: OFF</li> <li>Disables the ECM for one-touch keys.</li> </ul> </li> <li>Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-touch key at the screen for entering a one-key number.</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item</li> </ol>				
<ul> <li>2. Enter 1 or 2 using the numeric keys to change the setting.         <ul> <li>Display</li> <li>Description</li> <li>1: ON</li> <li>2: OFF</li> <li>Disables the ECM for one-touch keys.</li> </ul> </li> <li>3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.</li> </ul> <li>Completion         <ul> <li>Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item</li> </ul> </li>				
Display         Description           1: ON         ECM communication is performed for all one-touch keys.           2: OFF         Disables the ECM for one-touch keys.           3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.           Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item				
1: ON       ECM communication is performed for all one-touch keys.         2: OFF       Disables the ECM for one-touch keys.         3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.         Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item		۷.		
2: OFF       Disables the ECM for one-touch keys.         3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.         Completion         Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item				
<ul> <li>To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-key number.</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item</li> </ul>				
<b>Completion</b> Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item			To return to the se	
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item			-	
				key at the screen for selecting an item. The screen for selecting a maintenance item No. i
				, , , , , , , , , , , , , , , , , , , ,
		-	-	

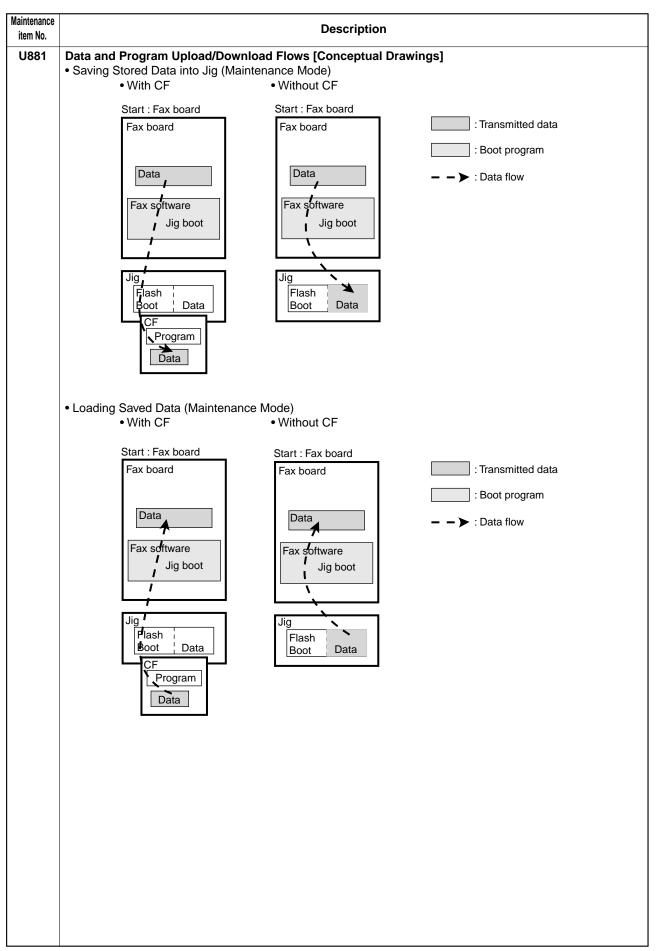
			Description			
Set	ting the system	(communication	3)			
Description						
Mal	kes settings for fa	ix transmission reg	garding the communication.			
	pose					
		ion errors when a	low quality line is used.			
Sta			e de atén e an itana in dia dan ad			
	Press the approp	priate list selection	selecting an item is displayed.			
	The selected list	is output.				
	Di	isplay	Description			
	V.34 MODEM		Enables or disables V.34 communicati	ion.		
	V.34-3429Hz		Sets the V.34 symbol speed (3429 Hz)	).		
	V.34-3200Hz		Sets the V.34 symbol speed (3200 Hz)			
	V.34-3000Hz		Sets the V.34 symbol speed (3000 Hz)			
	V.34-2800 Hz		Sets the V.34 symbol speed (2800 Hz)	).		
		V.34 communicat				
Set	s whether V.34 co	ommunication is e	nabled/disabled for transmission and rec	ception.		
1.	-	ng using the nume	· · · · · · · · · · · · · · · · · · ·			
	Display		Description			
	1: ON		ation is enabled for both transmission ar	nd reception.		
	2: TX		ation is enabled for transmission only.			
	3: RX		ation is enabled for reception only.			
	4: OFF		ation is disabled for both transmission a	nd reception		
		ey. The value is se				
			g an item, press the stop/clear key.			
		nbol speed (3429 ool speed 3429 Hz				
	•		s to change the setting.			
••	Display		Description			
		V/24 oumbol cr				
	1: ON 2: OFF		eed 3429 Hz is used. eed 3429 Hz is not used.			
2						
		ey. The value is se screen for selecting				
3. To return to the screen for selecting an item, press the stop/clear key.						
Setting the V.34 symbol speed (3200 Hz) Sets if the V.34 symbol speed 3200 Hz is used.						
			s to change the setting.			
	Display		Description			
	1: ON	V.34 symbol spe	eed 3200 Hz is used.			
	2: OFF		eed 3200 Hz is used.			
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>						
3						
	ting the V21 eve	Setting the V.34 symbol speed (3000 Hz) Sets if the V.34 symbol speed 3000 Hz is used.				
Set		ool speed 3000 Hz				
<b>Set</b> Set	s if the V.34 symb		s to change the setting.			
<b>Set</b> Set	s if the V.34 symb Enter 1 or 2 usin		s to change the setting.			
<b>Set</b> Set	s if the V.34 symb Enter 1 or 2 usin <b>Display</b>	g the numeric key	s to change the setting. Description			
<b>Set</b> Set	s if the V.34 symb Enter 1 or 2 usin Display 1: ON	g the numeric key V.34 symbol spe	s to change the setting. Description eed 3000 Hz is used.			
Set Set 1.	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF	g the numeric key V.34 symbol spo V.34 symbol spo	s to change the setting. Description eed 3000 Hz is used. eed 3000 Hz is not used.			
Set 1.	s if the V.34 symb Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se	s to change the setting.  Description eed 3000 Hz is used. eed 3000 Hz is not used. et.			
Set 1.	s if the V.34 symb Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se	s to change the setting. Description eed 3000 Hz is used. eed 3000 Hz is not used.			
Set Set 1.	s if the V.34 symb Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se	s to change the setting.  Description eed 3000 Hz is used. eed 3000 Hz is not used. et.			
Set 1.	s if the V.34 symb Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se	s to change the setting.  Description eed 3000 Hz is used. eed 3000 Hz is not used. et.			

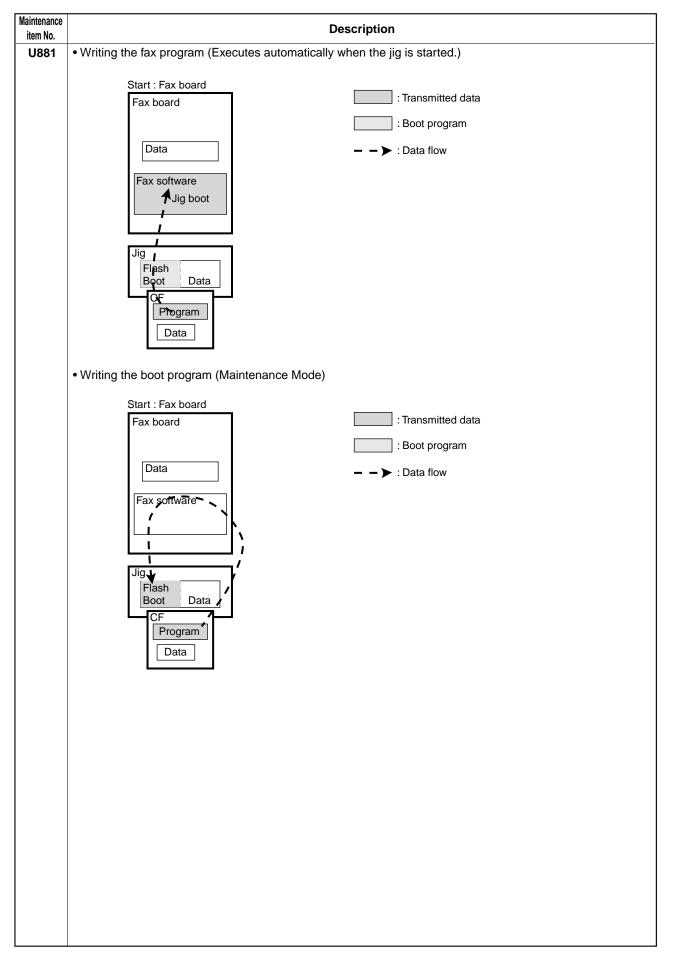
Maintenance item No.			Description		
U670 (cont.)			nbol speed (2800 Hz) ol speed 2800 Hz is used.		
	1. Enter 1 or 2 using the numeric keys to change the setting.				
		Display	Description		
		1: ON 2: OFF	V.34 symbol speed 2800 Hz is used. V.34 symbol speed 2800 Hz is not used.		
			ey. The value is set. creen for selecting an item, press the stop/clear key.		
	Pres		key. The screen for selecting a maintenance item No. is displayed.		
U680	Note	e: On Japanese de	oard ROM version omestic models, this also displays the font ROM version.		
	Disp		of the ROM on the fax control PCB.		
			rsion of the ROM on the fax control PCB.		
	1.		ey. The version of the ROM on the fax control PCB is displayed.		
			key. The screen for selecting a maintenance item No. is displayed.		

Maintenance item No.		Description					
U881	Using the flash-memory jig.						
	Description						
		le between the flash-memory jig and the machine's SRAM.					
	Purpose						
		trol PCB, use this procedure to save SRAM data from the old PCB and load it into					
	Start						
		item-selection screen appears.					
	2. Press the appropriate i						
	The screen for the sele	cted item appears.					
	Display	Description					
	UPLOAD TO JIG:ALL	Saves all SRAM data into the jig.					
	DOWNLOAD FROM JIG: All	Loads all data saved in the jig into the machine's SRAM.					
	WRITE BOOT PROGRAM UPLOAD TO JIG:DIAL	Loads the boot program into the jig.					
	DOWNLOAD FROM JIG: DIAL	<ul> <li>Display only.</li> </ul>					
	Saving SRAM data into th	ne lia					
	Saves SRAM data into the						
	DOWNLOAD FROM	IIG2					
	DOWNLOAD FROM						
	<ol> <li>Press the start key. The <ul> <li>If the operation was s</li> </ul> </li> </ol>	e data is saved into the jig, and the screen indicates the result.					
	DOWNLOAD FROM	JIG					
	ОК						
	<ul> <li>If the operation failed</li> </ul>						
	DOWNLOAD FROM	,					
	NG XXX	See "Error Codes for Operation U881," below.					
		lanations are on the same page, then "below". If on the next page, then "on the next er page, then "on page XX".>>					
	page . If on some our	er page, men on page XX .>>					
	2. Press the stop key.						
	3. Turn the power off.						

tenance m No.	Description
381	Writing data from the flash-memory jig into SRAM Writes the data from the jig into the machine's SRAM.
	UPLOAD TO JIG?
	<ol> <li>Press the start key. The data write is executed, and the screen displays the result.</li> <li>If the write operation was successful:</li> </ol>
	UPLOAD TO JIG OK
	If the write operation failed:
	UPLOAD TO JIG NG XXXwhere XXX is the error code indicating the reason for the failure. See "Error Codes for Operation U881," below.
	<ol> <li>Press the stop key.</li> <li>Turn the power off.</li> </ol>
	<ul> <li>Writing the boot program into the jig</li> <li>Writes the boot program into the flash memory in the jig.</li> <li>1. When this item is pressed, the machine writes the boot program into the jig's flash memory, and the screen displays the result.</li> <li>If the write operation was successful:</li> <li>WRITE BOOT PRG.</li> </ul>
	• If the write operation failed:
	WRITE BOOT PRG. NG XXXwhere XXX is the error code indicating the reason for the failure. See "Error Codes for Operation U881," below.
	<ol> <li>Press the stop key.</li> <li>Turn the power off.</li> </ol>

Maintenance item No.		Description
U881	Error Codes f	for Operation U881
	Code	Meaning
	001	Jig not present.
	002	No CF card.
	003	No data in CF card.
	004	CF data is incompatible. (This error occurs if you change the file name and attempt to load the data into a different machine model.)
	005	Bad CF data (Checksum error)
	006	CF read error
	007	CF write error
	008	
	009	No data is jig's flash memory // Incompatible data in jig's flash memory (SRAM data has not yet been saved // Attempt was made to load data into a different model.)
	010	Jig flash-memory read error (Following SRAM read, flash-memory data failed to match SRAM data.)
	011	Jig flash-memory write error
	012	Other error





nance No.	Description					
394	Performing board test					
	Description Performs tests on the SRAM, DRAM (image memory, bitmap memory) and optional memory on the fax contro PCB.					
	Purpose Used to check if reading and writing are performed correctly in respective installed memories.					
	<ol> <li>Start</li> <li>Press the start key. The screen for selecting an item is displayed.</li> <li>Press the appropriate item. The test executes.</li> </ol>					
	Display Description					
	BOARD MEMORY     Performs tests on SRAM and DRAM.       BOARD OP. MEM     Performs tests on optional memory.					
	<ul> <li>Performing tests on SRAM and DRAM</li> <li>1. Press the start key. The screen displays the test results as follows.</li> <li>When the test result is OK:</li> </ul>					
	TEST MEMORY OK					
	If the test result is NG:					
	TEST MEMORY					
	NG DRAM IMG 0x*****					
	To return to the screen for selecting an item, press the stop/clear key. Performing tests on optional memory 1. Press the start key. The screen displays the test results as follows. • When the test result is OK:					
	TEST OPTION MEMORY OK					
	If the test result is NG:					
	TEST OPTION MEMORY         NG DRAM B.M 0x*****         ******: address					
	If the test result is NG (memory is not installed):					
	TEST OPTION MEMORY NG DRAM B.M					

aintenance	
item No.	Description
U992	Checking or clearing the printer/fax count
	Description
	Displays, clears or changes the print count of the printer or fax when the printer board or facsimile kit is installed.
	Purpose To check the condition of use of the printer or fax.
	Method Press the start key. The print count of the printer or fax is displayed.
	<ol> <li>Setting         <ol> <li>Press the appropriate item.</li> <li>Enter a six-digit numerical value using the numeric keys. To clear both of the printer and fax counts, press the reset key.</li> <li>Press the start key. The count is set.</li> </ol> </li> </ol>
	Completion
	Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

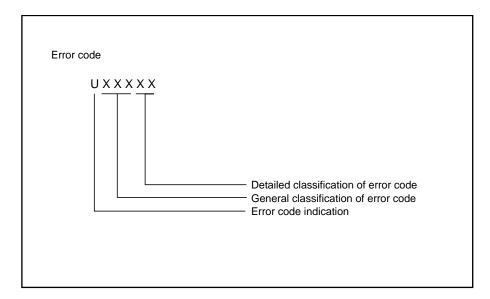
### 1-4-1 Error codes

3CM

### (1) Error code

Error codes are listed on the communication reports, activity report, etc. The codes consist of an error code indication "U" followed by a 5-digit number. (Error codes for V34 communication errors start with an "E" indication, followed by five digits.)

The upper three of the five digits indicate general classification of the error and its cause, while the lower two indicate the detailed classification. Items for which detailed classification is not necessary have "00" as the last two digits.



# (2) Table of general classification

Error code	Description
U00000	No response or busy after the set number of redials.
U00100	Transmission was interrupted by a press of the stop/clear key.
U00200	Reception was interrupted by a press of the stop/clear key.
U00300	Recording paper on the destination unit has run out during transmission.
U004XX	A connection was made but interrupted during handshake with the receiver unit (refer to page
	4-4 "U004XX error code table").
U00500	Multiple communication was interrupted and call was not made on destination units after
	interruption.
U006XX	Communication was interrupted because of a machine problem (refer to page 1-4-4 "U006XX
	error code table").
U00700	Communication was interrupted because of a problem in the destination unit.
U008XX	A page transmission error occurred in G3 mode (refer to page 1-4-5 "U008XX error code table"
U009XX	A page reception error occurred in G3 mode (refer to page 1-4-5 "U009XX error code table").
U010XX	Transmission in G3 mode was interrupted by a signal error (refer to page 1-4-6 "U010XX error
	code table").
U011XX	Reception in G3 mode was interrupted by a signal error (refer to page 1-4-8 "U011XX error code
	table").
U012XX	Not used.
U013XX	Not used.
U01400	An invalid one-touch key was specified during communication.
U01500	A communication error occurred when calling in V.8 mode.
U01600	A communication error occurred when called in V.8 mode.
U017XX	A communication error occurred before starting T.30 protocol during transmission in V.34 mode
0011700	(refer to page 1-4-10 "U017XX error code table").
U018XX	A communication error occurred before starting T.30 protocol during reception in V.34 mode
0010/00	(refer to page 1-4-10 "U018XX error code table").
U02200	F-code based relay broadcast transmission failed because the data registered in the F-code
002200	relay box was deleted.
U02400	An interoffice F-code based relay transmission was interrupted because of a mismatch in the
002100	specified relay box number.
U03000	No document was present in the destination unit when polling reception started.
U03200	In interoffice F-code based bulletin board reception, data was not stored in the box specified by
000200	the destination unit.
U03300	In polling reception from a unit of our make, operation was interrupted due to a mismatch in
000000	permit ID or telephone number. Or, in interoffice F-code based bulletin board reception,
	operation was interrupted due to a mismatch in permit ID or telephone number.
U03400	Polling reception was interrupted because of a mismatch in individual numbers (destination uni
000+00	is either of our make or by another manufacturer).
U03500	In interoffice F-code based bulletin board reception, the specified F-code confidential box
000000	number was not registered in the destination unit.
U03600	An interoffice F-code based bulletin board reception was interrupted because of a mismatch in
003000	the specified F-code confidential box number.
U03700	Interoffice F-code based bulletin board reception failed because the destination unit had no F-
003700	
	code based bulletin board transmission capability, or data was not stored in any F-code
104000	confidential box in the destination unit.
U04000	In interoffice F-code based transmission mode, the specified F-code box number was not
104400	registered in the destination unit.
U04100	F-code based transmission failed because the destination unit had no F-code based reception
	capability.

Error code	Description
U04200	In encrypted transmission, the specified encryption box was not registered in the destination unit.
U04300	Encrypted transmission failed because the destination unit had no encrypted communication capability.
U044XX	Communication was interrupted because of an encryption key error during encrypted
	transmission (refer to page 1-4-10 "U044XX error code table").
U04500	Encrypted reception was interrupted because of a mismatch in encryption keys.
U05100	Password check transmission was interrupted because the permit ID did not agree.
U05200	Password check reception was interrupted because the permit ID did not agree.
U05300	Destination unit in password check reception mode did not receive data because the permit ID
	did not agree.
U09000	G3 communication was attempted but failed because the destination unit was a G2 machine.
U12000	In F-code based relay reception, memory overflowed.
U14000	In F-code based confidential reception, memory overflowed.
U14100	In interoffice F-code based transmission, memory overflowed in the destination unit.
U19000	Memory overflowed during memory reception.
U19100	Memory overflowed in the destination unit during transmission.
U19200	Memory transmission failed because a decoding error occurred.
U19300	Transmission failed because an error occurred during JBIG encoding.
U19400	Reception failed because an error occurred during JBIG decoding.

### (2-1) U004XX error code table: interrupted phase B

Error code	Description			
U00420	A relay request was received from the host center but interrupted because of a mismatch in			
	permit ID or telephone number.			
U00421 F-code based relay reception was interrupted because of a mismatch in the speci				
	relay box number.			
U00430	A polling request was received but interrupted because of a mismatch in permit ID in the			
	transmitting unit. Or, F-code based bulletin board transmission request was received but			
	interrupted because of a mismatch in permit ID in the transmitting unit.			
U00431	An F-code based bulletin board transmission was interrupted because the specified F-code			
	confidential box was not registered.			
U00432	An F-code based bulletin board transmission was interrupted because of a mismatch in F-code			
	confidential box numbers.			
U00433	F-code based bulletin board transmission request was received but data was not present in the			
	F-code confidential box.			
U00435	F-code based bulletin board transmission request was received but interrupted because the			
	specified F-code confidential box was being accessed.			
U00440	F-code based confidential reception or F-code based relay reception was interrupted because			
	the specified F-code box was not registered.			
U00450	The destination unit in password check transmission mode interrupted transmission because of a			
	mismatch in permit ID.			
U00460	Encrypted reception was interrupted because the specified encryption box number was not			
	registered.			
U00462	Encrypted reception was interrupted because the encryption key for the specified encryption box			
	was not registered.			

### (2-2) U006XX error code table: Problems with the unit

Error code	Description		
U00600	The SRDF cover is open.		
U00601	Document jam or the document length exceeds the maximum.		
U00602	Image scanning section problem.		
U00603	No document feed.		
U00604	Document length exceeded the limit of the bitmap memory capacity.		
U00610	Recording section cover is open.		
U00655	CTS was not activated after RTS due to a modem error.		
U00656	Data was not transmitted after CTS was activated due to a modem error.		
U00670	Power was cut off during communication.		
U00677	There was no file to transmit in the memory transmission mode.		
U00690	System error.		

Error code	Description			
U00800 A page transmission error occurred because of reception of a RTN or PIN signal.				
U00810	A page transmission error reoccurred after retry of transmission in the ECM mode.			

# (2-4) U009XX error code table: Page reception error

Error code	Description		
U00900	An RTN or PIN signal was transmitted because of a page reception error.		
U00910	U00910 A page reception error remained after retry of transmission in the ECM mode.		

### (2-5) U010XX errror code table: G3 transmission

Error code	Description		
U01000	An FTT signal was received for a set number of times after TCF signal transmission at 2400 bp Or, an RTN signal was received in response to a Q signal (excluding EOP) after transmission a 2400 bps.		
U01001	Function of the unit differs from that indicated by a DIS signal.		
U01010	No relevant signal was received after transmission of a DNL (MPS or EOM) signal, and the		
	preset number of command retransfers was exceeded (between units of our make).		
U01011	No relevant signal was received after transmission of a DCS, TCF signal, and the preset number		
001011	of command retransfers was exceeded.		
U01012	No relevant signal was received after transmission of an NSS1, NSS2 (TCF) signal, and the		
	preset number of command retransfers was exceeded (between units of our make).		
U01013	No relevant signal was received after transmission of an NSS3, TCF signal, and the preset		
	number of command retransfers was exceeded (between units of our make).		
U01014	No relevant signal was received after transmission of an MPS signal, and the preset number of		
	command retransfers was exceeded.		
U01015	No relevant signal was received after transmission of an EOM signal, and the preset number of		
	command retransfers was exceeded.		
U01016	An MCF signal was received but no DIS signal was received after transmission of an EOM		
	signal, and T1 timeout was detected.		
U01017	No relevant signal was received after transmission of an EOP signal, and the preset number of		
001011	command retransfers was exceeded.		
U01018	No relevant signal was received after transmission of a PRI-EOP signal, and the preset numbe		
001010	of command retransfers was exceeded.		
U01019	No relevant signal was received after transmission of a CNC signal, and the preset number of		
	command retransfers was exceeded (between units of our make).		
U01020	No relevant signal was received after transmission of a CTC signal, and the preset number of		
	command retransfers was exceeded (ECM).		
U01021	No relevant signal was received after transmission of an EOR.Q signal, and the preset number		
	of command retransfers was exceeded (ECM).		
U01022	No relevant signal was received after transmission of an RR signal, and the preset number of		
	command retransfers was exceeded (ECM).		
U01023	No relevant signal was received after transmission of a PSS.NULL signal, and the preset numb		
	of command retransfers was exceeded (ECM).		
U01024	No relevant signal was received after transmission of a PSS.MPS signal, and the preset number		
	of command retransfers was exceeded (ECM).		
U01025	No relevant signal was received after transmission of a PPS.EOM signal, and the preset number		
	of command retransfers was exceeded (ECM).		
U01026	No relevant signal was received after transmission of a PPS.EOP signal, and the preset number		
	of command retransfers was exceeded (ECM).		
U01027	No relevant signal was received after transmission of a PPS.PRI-EOP signal, and the preset		
	number of command retransfers was exceeded (ECM).		
U01028	T5 timeout was detected during ECM transmission (ECM).		
U01040	A DCN or other inappropriate signal was received during standby for DIS signal reception.		
U01041	A DCN signal was received after transmission of a DNL (MPS or EOM) signal (between units o		
	our make).		
U01042	A DCN signal was received after transmission of a DCS, TCF signal.		
U01043	A DCN signal was received after transmission of an NSS1, NSS2 (TCF) signal (between units of		
	our make).		
U01044	A DCN signal was received after transmission of an NSS3, TCF signal (between units of our		
	make).		

Error code Description				
U01045	A DCN or other inappropriate signal was received after transmission of an MPS signal.			
U01046	A DCN or other inappropriate signal was received after transmission of an EOM signal.			
U01047	A DCN or other inappropriate signal was received after transmission of an EOP signal.			
U01048	A DCN signal was received after transmission of a PRI-EOP signal.			
U01049	A DCN signal was received after transmission of a CNC signal (between units of our make).			
U01050	A DCN signal was received after transmission of a CTC signal (ECM).			
U01051	A DCN signal was received after transmission of an EOR.Q signal (ECM).			
U01052	A DCN signal was received after transmission of an RR signal (ECM).			
U01053	A DCN signal was received after transmission of a PPS.NULL signal (ECM).			
U01054	A DCN signal was received after transmission of a PPS.MPS signal (ECM).			
U01055	A DCN signal was received after transmission of a PPS.EOM signal (ECM).			
U01056	A DCN signal was received after transmission of a PPS.EOP signal (ECM).			
U01057	A DCN signal was received after transmission of a PPS.PRI-EOP signal (ECM).			
U01070	Polarity reversal was detected during handshake.			
U01071	Polarity reversal was detected during message transmission.			
U01072	A break in loop current was detected during transmission.			
U01073	During reverse polling in V.34 mode at the receiver unit, a CM signal was not detected when			
	transmitting after reception.			
U01080	A PIP signal was received after transmission of a PPS.NULL signal.			
U01091 During transmission in V.34 mode, communication was interrupted because a PPR s				
	received over 10 times even after reducing the communication speed to the minimum with the			
	symbol speed maintained at the level of connection.			
U01092	During transmission in V.34 mode, communication was interrupted because of an impossible			
	combination of the symbol speed and communication speed.			

# (2-6) U011XX error code table: G3 reception

Error code Description				
U01100	Function of the unit differs from that indicated by a DCS signal.			
U01101	Function of the unit (excl. communication mode select) differs from that indicated by an NSS			
	signal.			
U01102	A DTC (NSC) signal was received when no transmission data was in the unit.			
U01110	No response after transmission of a DIS signal.			
U01111	No response after transmission of a DTC (NSC) signal.			
U01112	No training reception after reception of a DCS or NSS signal.			
U01113	No response after transmission of an FTT signal.			
U01114	No message reception after transmission of a CFR signal.			
U01115	No message reception after transmission of an MCF signal.			
U01116	No message reception after transmission of a PPR signal.			
U01117	No message reception after transmission of a CTR signal.			
U01118	No message reception after transmission of an ERR signal.			
U01119	No further signals were received after reception of a message.			
U01120	No response after transmission of an MCF signal.			
U01121	No response after transmission of an RTP signal.			
U01122	No response after transmission of an RTN signal.			
U01123	No response after transmission of a PIP signal.			
U01124	No response after transmission of a PIN signal.			
U01125	No response after transmission of a CNS signal (between units of our make).			
U01126	No response after transmission of a PPR signal (ECM).			
U01127	No response after transmission of an ERR signal (ECM).			
U01128	No response after transmission of an RNR signal (ECM).			
U01129	No response after transmission of an SPA signal (short protocol).			
U01140	A DCN signal was received after transmission of a DIS signal.			
U01141	A DCN signal was received after transmission of a DTC signal.			
U01142	A DCN signal was received after transmission of a DCS or NSS signal.			
U01143	A DCN signal was received after transmission of an FTT signal.			
U01144	A DCN signal was received after transmission of a CFR signal.			
U01145	A DCN signal was received after reception of a message.			
U01146	A DCN signal was received after transmission of an MCF signal (interoffice communication aft			
	reception of an MPS, EOM signal or confidential interoffice communication).			
U01147	A DCN signal was received after transmission of an RTP signal.			
U01148	A DCN signal was received after transmission of an RTN signal.			
U01149	A DCN signal was received after transmission of a PIP signal.			
U01150	A DCN signal was received after transmission of a PIN signal.			
U01151	A DCN signal was received after transmission of a PPR signal (ECM).			
U01152	A DCN signal was received after transmission of a CTR signal (ECM).			
U01153	A DCN signal was received after transmission of an ERR signal (ECM).			
U01154	A DCN signal was received after transmission of an RNR signal (ECM).			
U01155	A DCN signal was received after transmission of an SPA signal (short protocol).			
U01160	During message reception, transmission time exceeded the maximum transmission time per li			
U01161				
U01162	Number of error lines exceeded limits during message reception.           A break in loop current was detected during message reception.			
U01163				
U01164	Polarity reversal was detected during message reception.			
U01164	One page length exceeded the specified length during message reception.			
U01170	A decoding error occurred during MMR message reception. During reverse polling in V.34 mode at the transmitting unit, a JM signal was not detected afte			
001172	transmission of a CM signal when receiving after transmission.			

Error code	Description		
U01191	Communication was interrupted because an error occurred during an image data reception sequence in the V.34 mode.		
U01199	A DIS signal with different FIF was received after transmission of a DIS signal.		

#### (2-7) U017XX error code table: V.34 transmission

Error code	Description		
U01700	A communication error occurred in phase 2 (line probing).		
U01720	A communication error occurred in phase 4 (modem parameter exchange).		
U01721	Operation was interrupted due to the absence of a common communication speed between		
	units.		

- U01700: A communication error that occurs at the transmitting unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/A/Abar (B/Bbar, for polling transmission)/INFOh was not detected.
- U01720: A communication error that occurs at the transmitting unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
- U01721: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange; 1) a DCN signal was received from the destination unit, and the line was cut; or 2) a DIS (NSF, CSI) signal was received from the destination unit and, in response to the signal, the unit transmitted a DCN signal, and the line was cut.

#### (2-8) U018XX error code table: V.34 reception

Error code	Description		
U01800	A communication error occurred in phase 2 (line probing).		
U01810	communication error occurred in phase 3 (primary channel equivalent device training).		
U01820	A communication error occurred in phase 4 (modem parameter exchange).		
U01821	Operation was interrupted due to the absence of a common communication speed between		
	units.		

- U01800: A communication error that occurs at the receiver unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/B/Bbar (A/Abar, for polling reception)/probing tone was not detected.
- U01810: A communication error that occurs at the receiver unit in phase 3 (primary channel equivalent device training). For example, S/Sbar/PP/TRN was not detected.
- U01820: A communication error that occurs at the receiver unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
- U01821: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange, a DCN signal was transmitted to the destination unit and the line was cut.

#### (2-9) U044XX error code table: Encrypted transmission

Error code	Description			
U04400 Encrypted transmission was interrupted because encryption keys did not agree.				
U04401 Calling failed during encrypted transmission because the encryption key was not registered.				

# (1) Self diagnostic codes

Code	Contonto	Remarks		
Code	Contents	Causes	Check procedures/corrective measures	
C003	<ul> <li>Fax control PCB system problem</li> <li>Processing with the fax software was disabled due to a hardware or software problem.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C013	<ul> <li>Fax control PCB software switch checksum error</li> <li>A checksum error occurred with the software switch value stored in the flash ROM on the fax control PCB.</li> </ul>	Defective SRAM on the fax control PCB.	Replace the fax control PCB and check for correct operation.	
C028	<ul> <li>Communication problem between the operation unit PCB and fax con- trol PCB</li> <li>The operation unit PCB did not re- ceive any key request command from the fax control PCB within 1 minute of the status change signal turning on. Then, after resetting the fax machine, the operation unit PCB again did not receive any key request command from the fax control PCB while the status change signal was held on for 1 minute.</li> <li>Abnormal data was received 5 times in succession in response to the com- mand from the fax control PCB.</li> <li>An erroneous FAX READY signal continued for 3 seconds and, after resetting the fax machine, an errone- ous FAX READY signal continued for 3 seconds again.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C082	<ul> <li>Fax control PCB CG ROM checksum error</li> <li>A checksum error occurred with the CG ROM data in the flash ROM on the fax control PCB.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C083	<ul> <li>Flash ROM program area checksum error</li> <li>A checksum error occurred with the program in the flash ROM on the fax control PCB.</li> </ul>	Defective SRAM on the fax control PCB.	Replace the fax control PCB and check for correct operation.	

### **1-6-1** Updating the firmware

### (1) Updating the firmware on the fax control PCB (FLASH ROM)

Perform the steps below when updating the firmware in the Flash ROM on the fax control PCB.

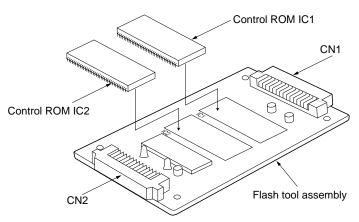
Firmware updating requires the following tools: Flash tool assembly (P/N 3596801\*) Control ROM IC1 (P/N 3CM6802\*) Control ROM IC2 (P/N 3CM6806\*)

#### Caution:

• Turn the main switch off and disconnect the power plug from the wall outlet before disconnecting or inserting connectors.

#### <Procedure>

- 1. Turn the main switch off and disconnect the power plug from the wall outlet.
- Remove the two screws holding the rear cover and then the cover.
- 3. Remove the five screws holding the fax shield cover and then the cover.
- Fit control ROM IC1 and control ROM IC2 to the flash tool assembly.





 Insert connector CN1 (the one furthest from the LEDs) on the flash tool assembly into connector CN5 on the fax control PCB.

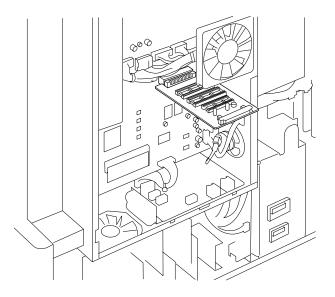


Figure 1-6-2

- Connect the power plug into the wall outlet. Upgrading of control ROM IC1 and 2 starts and LED on the flash tool assembly flashes for 30 seconds. The LED remains on when upgrading is complete.
- 7. Disconnect the power plug from the wall outlet.
- 8. Remove the flash tool assembly from the fax control PCB.
- 9. Refit the fax controller box cover and rear cover.

### (2) Updating the firmware on the fax control PCB (Compact Flash card)

To carry out a FLASH ROM firmware update of the fax control PCB, follow the steps below.

This firmware update requires the following tools: CF jig (P/N 3CM6803\*) Compact Flash card (Products manufactured by SANDISK are recommended.)

### Caution:

- Turn the main power switch off and disconnect the power plug from the wall outlet before disconnecting or inserting connectors.
- When writing data to Compact Flash card from a computer, be sure to format it in advance. (For formatting, insert a Compact Flash card and select a drive.)
- For a desktop computer, connect a Compact Flash card reader/writer to it. For a notebook computer, use a PC card adapter or a connection portion only for Compact Flash card.

#### <Procedure>

- 1. Check the current ROM version using maintenance mode U680.
- 2. Turn the main switch off and disconnect the power plug from the wall outlet.
- 3. Remove the rear cover and the control-box cover. (Refer to"(1) Updating the firmware on the fax control PCB (Flash ROM)", Steps 1 to 3, above.)
- 4. If you are using a new CF jig, continue as follows to write the boot program into the jig's flash boot. If your CF jig already has the boot program in its flash boot, jump ahead to step 13.
- Insert a Compact Flash card containing the boot program into the CF jig. Be sure that the card fits in smoothly along the left and right guides. (Trying to force the card in incorrectly may cause electrical contacts to break.)
- 6. Set dip-switch bit SW012 on the jig to "MEMORY".

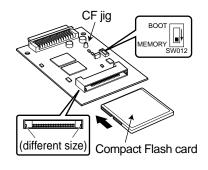


Figure 1-6-3

- 7. Connect CN1 on the CF jig to CN5 on the fax control PCB.
- 8. Plug the machine's power plug back into the wall outlet, and turn the main switch on.
- 9. Run maintenance mode U881 ("Load program to jig") to write the boot program into the jig. (See page 1-3-36.)
- 10. When loading terminates normally, disconnect the power plug from the wall outlet again.
- 11. Disconnect the CF iig from the fax control PCB.
- 12. Remove the Compact Flash card from the CF jig.
- Insert a Compact Flash card containing the firmware into the CF jig. Again, be sure that the card fits in smoothly along the left and right guides. (Trying to force the card may cause contacts to break.)
- 14. Set dip-switch bit SW012 on the jig to "BOOT".15. Connect CN1 on the CF jig to CN5 on the fax control PCB.

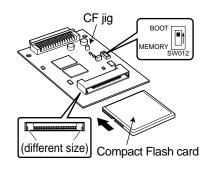


Figure 1-6-4

15. Connect CN1 on the CF jig to CN5 on the fax control PCB.

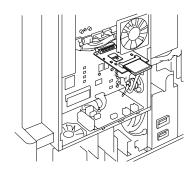
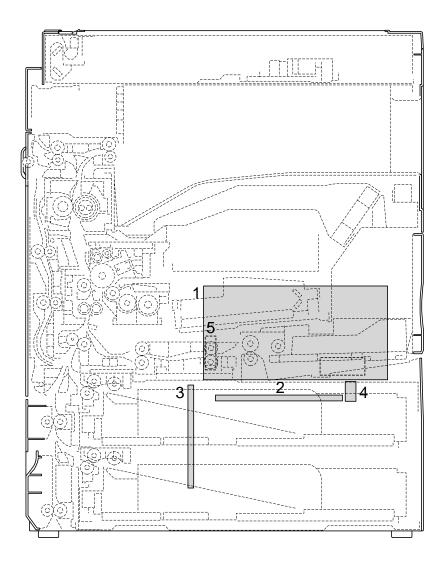


Figure 1-6-5

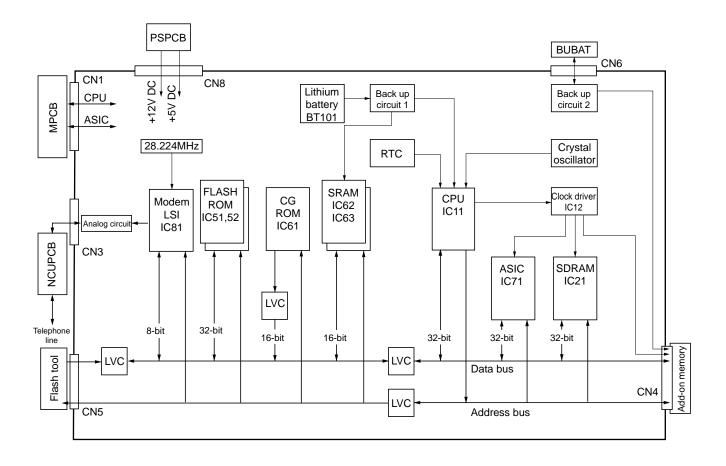
- 16. Plug the power plug back into the wall outlet, and turn the main switch on. ROM upgrading begins automatically. The LED on the CF jig flashes while upgrading is in progress (for about 30 17. Turn the main switch off, and disconnect the power plug from the wall outlet.
  18. Disconnect the CF jig from the fax control PCB.

- 19. Reattach the control-box cover and rear cover.
- 20. Plug the power plug back into the wall outlet, and turn the main switch back on.
- 21. Check the ROM version again using maintenance mode U680.



# Figure 2-1-1

1. Fax control PCB (FCPCB)	. Modulates, demodulates, compresses, decompresses and smoothes out image data, and converts resolution of image data.
	0 1
<ul> <li>Add-on memory*</li> </ul>	. Expands memory capacity for image data and bitmap conversion.
2.NCU PCB (NCUPCB)	. Controls connection to the telephone line.
3.Fax operation unit PCB (FOPCB)	. Consists of fax operation keys and display LEDs.
4.Auxiliary power source PCB (APSPCB)	. Converts an AC input to generate 5.2 V DC and 12 V DC.
5.Backup battery (BUBAT)	. Saves stored image when a power-down occur.
6.Speaker (SP)	. Outputs buzzer, monitoring and speaker sounds.
* Optional.	





The fax control PCB (FCPCB) controls the overall fax operation.

To transmit a fax, image data scanned by the optical section of the copier is processed by the main PCB (MPCB) and then sent to the fax control PCB (FCPCB). Received image data is first stored in the bitmap area of the SDRAM IC21 page by page and compressed using the MH, MR or MMR method. The data is then stored in the image memory area of the SDRAM IC21 and sent to the modern LSI IC81 to be modulated from digital signal to analog signal before it is sent to the telephone line via the NCU PCB (NCUPCB).

To receive a fax, analog image data received from the telephone line via the NCU PCB (NCUPCB) is sent to the modem LSI IC81 and, after demodulation into digital signals, stored in the image memory area of the SDRAM IC21. The image data is then decompressed and converted into the bitmap area of the SDRAM IC21 page by page and sent to the ASIC IC71 for resolution conversion and smoothing, and is passed to the main PCB (MPCB) as print image data.

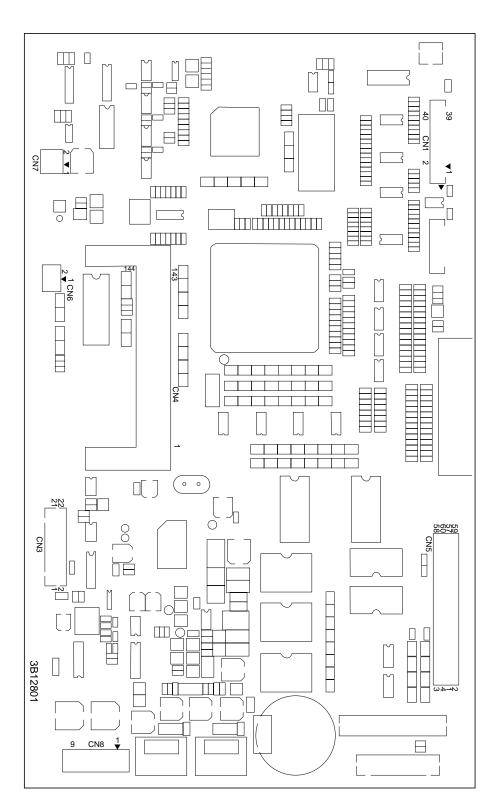
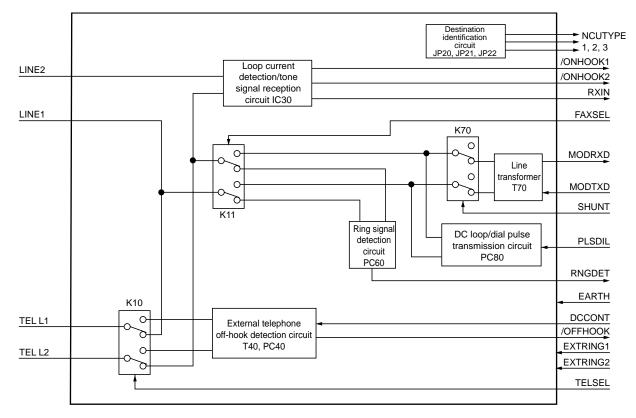


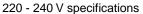
Figure 2-2-2 Fax control PCB silk-screen diagram

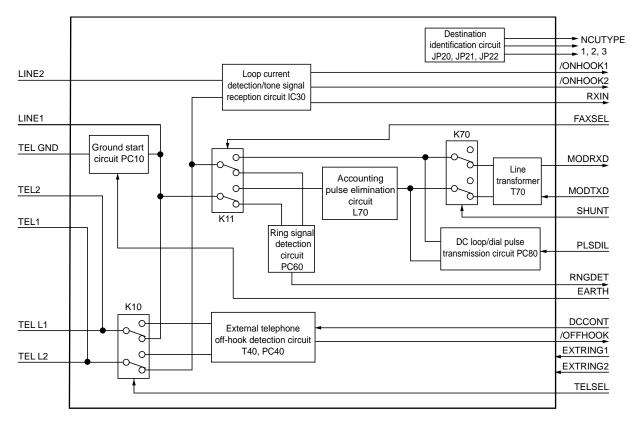
Termina	als (CN)	Voltage	Remarks
1-1	1-2	3.3/0 V DC (pulse)	3.3 V DC supply detection signal, input
1-3	1-4	3.3/0 V DC (pulse)	FPVCLK signal, input
1-5	1-6	3.3/0 V DC (pulse)	FVCLK signal, output
1-7	1-8	3.3/0 V DC (pulse)	FMRE signal, output
1-9	1-10	3.3/0 V DC (pulse)	FPVD signal, output
1-11	1-12	3.3/0 V DC (pulse)	FPHSYNC signal, input
1-13	1-14	3.3/0 V DC (pulse)	FPVSYNC signal, input
1-15	1-16	3.3/0 V DC (pulse)	FOVSYNC signal, input
1-17	1-18	3.3/0 V DC (pulse)	FOHSTHIN signal, input
1-19	1-20	3.3/0 V DC (pulse)	FMIPOUT0 signal, input
1-21	1-22	3.3/0 V DC (pulse)	FMREOUT signal, input
1-23	1-24	3.3/0 V DC (pulse)	FFOCLK signal, input
1-25	1-26	3.3/0 V DC (pulse)	MMISTS signal, input
1-27	1-28	3.3/0 V DC (pulse)	FMMI_TXD2 signal, input
1-29	1-30	5/0 V DC (pulse)	FMMI_TXD2 signal, output
1-23	1-30 1-30	3.3/0 V DC (pulse)	FAXRESET signal, input
1-32	1-30	5/0 V DC (pulse)	FAXREADY signal, output
1-32	1-30 1-30	5/0 V DC (pulse) 5/0 V DC (pulse)	PREQ signal, output
1-33	1-30 1-30		÷ ·
		5/0 V DC (pulse)	SREQ signal, output
1-36	1-37	3.3/0 V DC (pulse)	MAINSTS signal, input
1-38	1-39	3.3/0 V DC (pulse)	FMAIN_TXD0 signal, input
1-40	1-39	5/0 V DC (pulse)	FMAIN_RXD0 signal, output
3-1	3-2	12 V DC	12 V DC supply, output
3-3	3-4	5 V DC	5 V DC supply, output
3-5	3-4	3.3/0 V DC (pulse)	EXTRING1 signal, output
3-6	3-4	3.3/0 V DC (pulse)	EXTRING2 signal, output
3-7	3-4	3.3/0 V DC (pulse)	KMUTE signal, output
3-8	3-4	3.3/0 V DC (pulse)	SHUNT signal, output
3-10	3-4	3.3/0 V DC (pulse)	EARTH signal, output
3-11	3-4	3.3/0 V DC (pulse)	TELSEL signal, output
3-12	3-4	3.3/0 V DC (pulse)	FAXSEL signal, output
3-13	3-4	3.3/0 V DC (pulse)	NCUTYPE2 signal, input
3-14	3-4	3.3/0 V DC (pulse)	NCUTYPE3 signal, input
3-15	3-4	3.3/0 V DC (pulse)	OFFHOOK signal, input
3-16	3-4	3.3/0 V DC (pulse)	NCUTYPE1 signal, input
3-17	3-4	5/0 V DC (pulse)	ONHOOK1 signal, input
3-18	3-4	5/0 V DC (pulse)	ONHOOK2 signal, input
3-19	3-4	3.3/0 V DC (pulse)	RINGDET signal, input
3-20	3-2	Analog	MODTXD signal, output
3-21	3-2	Analog	RXIN signal, input
3-22	3-2	Analog	MODRXD signal, input
4-61	4-71, 73, 75	3.3/0 V DC (pulse)	OPTYPE1 signal, input
4-63	4-71, 73, 75	3.3/0 V DC (pulse)	OPTYPE2 signal, input
4-65, 67, 69	4-71, 73, 75	3.3 V DC	3.3 V DC supply, input
4-74	4-71, 73, 75	3.3/0 V DC (pulse)	DB (23) signal, input/output
4-76	4-71, 73, 75	3.3/0 V DC (pulse)	DB (21) signal, input/output
4-77	4-71, 73, 75	3.3/0 V DC (pulse)	DB (22) signal, input/output
4-78	4-71, 73, 75	3.3/0 V DC (pulse)	DB (19) signal, input/output
4-79	4-71, 73, 75	3.3/0 V DC (pulse)	DB (20) signal, input/output
4-80	4-71, 73, 75	3.3/0 V DC (pulse)	DB (17) signal, input/output
4-81	4-71, 73, 75	3.3/0 V DC (pulse)	DB (18) signal, input/output
4-82	4-109, 113	3.3/0 V DC (pulse)	DQM2 signal, output
4-83	4-71, 73, 75	3.3/0 V DC (pulse)	DB (16) signal, input/output
4-84	4-71, 73, 75	3.3/0 V DC (pulse)	AB (3) signal, output
4-85	4-71, 73, 75	3.3/0 V DC (pulse)	AB (3) signal, output
4-85	4-71, 73, 75 4-71, 73, 75	3.3/0 V DC (pulse)	AB (12) signal, output
<b>-</b> -00	+11,10,10		אים (דב) טאוומו, טעוףטע

Termina	ls (CN)	Voltage	Remarks
4-87	4-71, 73, 75	3.3/0 V DC (pulse)	AB (2) signal, output
4-88	4-71, 73, 75	3.3/0 V DC (pulse)	AB (14) signal, output
4-89	4-71, 73, 75	3.3/0 V DC (pulse)	AB (13) signal, output
4-90	4-71, 73, 75	3.3/0 V DC (pulse)	DB (25) signal, input/output
4-91	4-71, 73, 75	3.3/0 V DC (pulse)	DB (24) signal, input/output
4-92	4-71, 73, 75	3.3/0 V DC (pulse)	DB (27) signal, input/output
4-93	4-71, 73, 75	3.3/0 V DC (pulse)	DB (26) signal, input/output
4-94	4-71, 73, 75	3.3/0 V DC (pulse)	DB (29) signal, input/output
4-95	4-71, 73, 75	3.3/0 V DC (pulse)	DB (28) signal, input/output
4-96	4-71, 73, 75	3.3/0 V DC (pulse)	DB (31) signal, input/output
4-97	4-71, 73, 75	3.3/0 V DC (pulse)	DB (30) signal, input/output
4-98	4-71, 73, 75	3.3/0 V DC (pulse)	AB (5) signal, output
4-99	4-109, 113	3.3/0 V DC (pulse)	DQM3 signal, output
4-100	4-71, 73, 75	3.3/0 V DC (pulse)	AB (7) signal, output
4-101	4-71, 73, 75	3.3/0 V DC (pulse)	AB (6) signal, output
4-102	4-71, 73, 75	3.3/0 V DC (pulse)	AB (9) signal, output
4-103	4-71, 73, 75	3.3/0 V DC (pulse)	AB (8) signal, output
4-104	4-71, 73, 75	3.3/0 V DC (pulse)	AB (11) signal, output
4-105	4-71, 73, 75	3.3/0 V DC (pulse)	AB (10) signal, output
4-106	4-109, 113	3.3/0 V DC (pulse)	_CS signal, output
4-107	4-109, 113	3.3/0 V DC (pulse)	CKE signal, output
4-108	4-109, 113	3.3/0 V DC (pulse)	_RAS signal, output
4-110	4-109, 113	3.3/0 V DC (pulse)	CAS signal, output
4-111	4-109, 113	3.3/0 V DC (pulse)	CLK signal, output
4-112	4-109, 113	3.3/0 V DC (pulse)	RD/_WE signal, output
4-114	4-109, 113	3.3/0 V DC (pulse)	DQM1 signal, output
4-115	4-71, 73, 75	3.3/0 V DC (pulse)	DB (8) signal, input/output
4-116	4-71, 73, 75	3.3/0 V DC (pulse)	DB (9) signal, input/output
4-117	4-71, 73, 75	3.3/0 V DC (pulse)	DB (10) signal, input/output
4-118	4-71, 73, 75	3.3/0 V DC (pulse)	DB (11) signal, input/output
4-119	4-71, 73, 75	3.3/0 V DC (pulse)	DB (12) signal, input/output
4-120	4-71, 73, 75	3.3/0 V DC (pulse)	DB (13) signal, input/output
4-121	4-71, 73, 75	3.3/0 V DC (pulse)	DB (14) signal, input/output
4-122	4-71, 73, 75	3.3/0 V DC (pulse)	DB (15) signal, input/output
4-123	4-109, 113	3.3/0 V DC (pulse)	DQM0 signal, output
4-124	4-71, 73, 75	3.3/0 V DC (pulse)	DB (7) signal, input/output
4-125	4-71, 73, 75	3.3/0 V DC (pulse)	DB (6) signal, input/output
4-126	4-71, 73, 75	3.3/0 V DC (pulse)	DB (5) signal, input/output
4-127	4-71, 73, 75	3.3/0 V DC (pulse)	DB (4) signal, input/output
4-128	4-71, 73, 75	3.3/0 V DC (pulse)	DB (3) signal, input/output
4-129	4-71, 73, 75	3.3/0 V DC (pulse)	DB (2) signal, input/output
4-130	4-71, 73, 75	3.3/0 V DC (pulse)	DB (1) signal, input/output
4-131	4-71, 73, 75	3.3/0 V DC (pulse)	DB (0) signal, input/output
4-139, 141, 143	4-133, 135, 137	3.3 V DC	3.3 V DC supply, output
6-1	6-2	3 V DC	BUBAT backup power supply, input
7-1	7-2	Analog	SP alarm, output
8-1, 2	8-3, 4	5 V DC	5 V DC supply, input
8-5	8-6	+12 V DC	+12 V DC supply, input
8-7	8-3, 4	5/0 V DC (pulse)	MRY signal, output
8-8	8-9	3.3/0 V DC (pulse)	MSW signal, input

# 2-2-2 NCU PCB









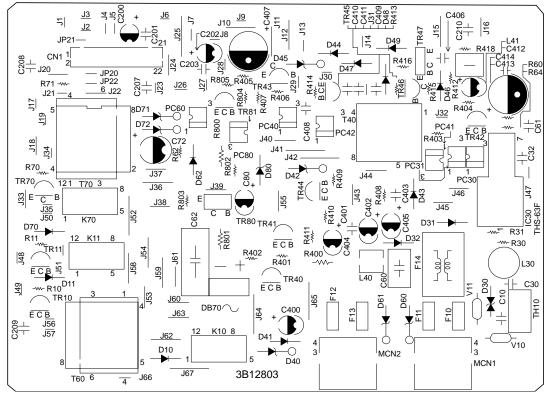
The NCU PCB (NCUPCB) mainly controls the connection to the telephone line. It consists of the circuits shown in the block diagram.

The loop current detection/tone signal reception circuit IC30 detects the DC loop current formed at the DC loop/dial pulse transmission circuit PC80 to determine the status of the telephone line. It also receives tone (DTMF) signals during remote control. The ring signal detection circuit PC60 detects the ring signals from the telephone line to determine call reception. The DC loop/dial pulse transmission circuit PC80 turns on and off the DC loop formed in the telephone line to send out dial pulses (selection signals). The external telephone off-hook detection circuit (T40 and PC40) detects the off-hook state of the telephone connected or the handset\*1. The destination identification circuit (JP20, JP21 and JP22) is used by the fax control PCB (FCPCB) to identify the destination of the NCU PCB (NCUPCB). The accounting pulse elimination circuit L70 removes signals representing the communication charge information (accounting pulses) before they reach the modem when telephone line is used.\*<sup>2</sup> This is because accounting pulses obstruct fax communications. The ground start circuit PC10 requests an outside connection to the private branch exchange (PBX) when calling via the PBX.\*<sup>2</sup>

\*1: Optional for 120 V specifications only.

\*2: For 220 - 240 V specifications only.

#### 120 V specifications



#### 220 - 240 V specifications

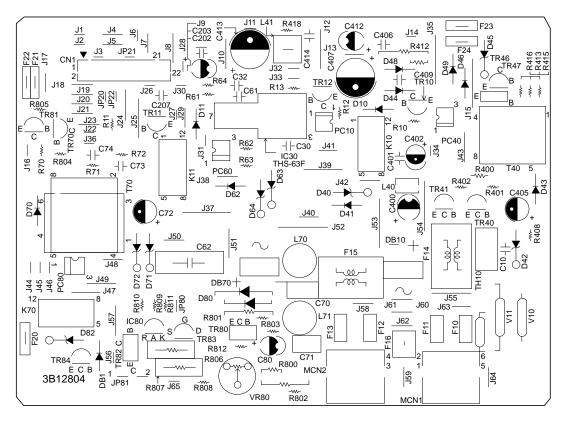


Figure 2-2-4 NUC PCB silk-screen diagram

3CM

Terminals (CN)		Voltage	Remarks
1-1	1-22	Analog	RXIN signal, output
1-2	1-22	Analog	MODRXD signal, output
1-3	1-20	3.3/0 V DC (pulse)	RNGDET signal, output
1-4	1-22	Analog	MODTXD signal, input
1-5	1-20	5/0 V DC (pulse)	ONHOOK1 signal, output
1-6	1-20	5/0 V DC (pulse)	ONHOOK2 signal, output
1-7	1-20	3.3/0 V DC (pulse)	OFFHOOK signal, output
1-7	1-20		
		3.3/0 V DC (pulse)	NCUTYPE2 signal, output
1-10	1-20	3.3/0 V DC (pulse)	NCUTYPE3 signal, output*
1-11	1-20	3.3/0 V DC (pulse)	TELSEL signal, input
1-12	1-20	3.3/0 V DC (pulse)	FAXSEL signal, input
1-13	1-20	3.3/0 V DC (pulse)	PLSDIL signal, input
1-14	1-20	3.3/0 V DC (pulse)	EARTH signal, input*
1-15	1-20	3.3/0 V DC (pulse)	DCCONT signal, input
1-16	1-20	3.3/0 V DC (pulse)	SHUNT signal, input
1-19	1-20	5 V DC	5 V DC supply, input
1-21	1-22	12 V DC	12 V DC supply, input

\*For 220-240 V specifications.

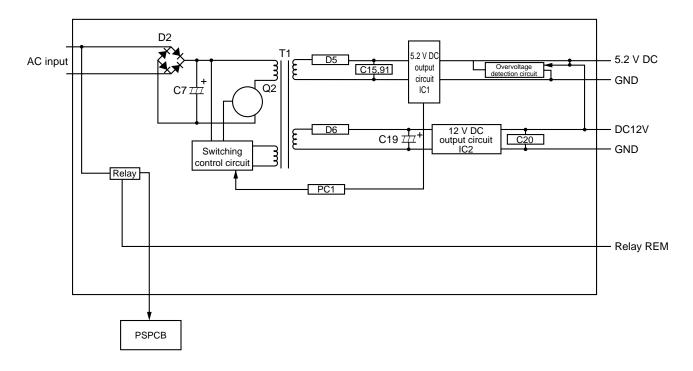


Figure 2-2-4 Auxiliary power source PCB block diagram

The auxiliary power source PCB (APSPCB) is a switching regulator that converts an AC input to generate 5.2 V DC and 12 V DC. It consists of a switching control circuit, 5.2 V DC output circuit and 12 V DC output circuit.

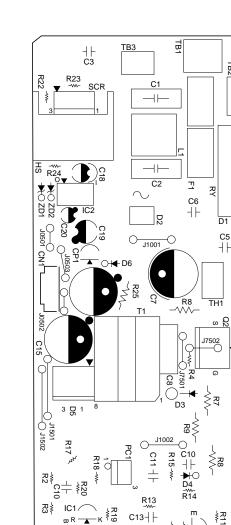
The rectifier circuit rectifies the full-wave of the AC input using the diode bridge D2. The smoothing capacitor C7 smoothes out the pulsed current from the diode bridge.

The switching control circuit turns on/off the power MOSFET Q2 with the voltage induced in the controlling coil of the transformer T1 to switch the current induced in the primary coil of the transformer T1.

The 5.2 V DC output circuit smoothes out the voltage from the current induced in the secondary coil of the transformer T1 via the diode D5 and smoothing capacitors C15 and C91, and outputs a stable 5.2 V DC using the shunt regulator IC1. The output status of the 5.2 V DC is fed back to the switching control circuit via the photo-coupler PC1. Based on the feedback, the switching control circuit changes the duty cycle of the pulse that turns power MOSFET Q2 on/off in order to adjust the 5.2 V DC.

The 12 V DC output circuit smoothes out voltage from the current induced in the secondary coil of the transformer T1 via the diode D6 and smoothing capacitor C19, and generates a stable 12 V DC using the 3-pin regulator IC2.

The relay turns on/off the AC supply to the power source PCB (PSPCB) based on the remote signal from the fax control PCB (FCPCB).



∦R19

ĸ

₽₿ IC1/

Q

ωR Ř21 ⊣⊢ C17

3CM0103 3CM0104

TB2

D1 ₩0

C5 ⊣⊢

T0112

U J2501

Ċ

J2502

YS2▲ ○ J1004 ○

ш

O\_\_\_\_O

E → B -₩-R10 -₩-R12

≹R1

Figure 2-2-5 Auxiliary power source PCB silk-screen diagram

C12-|-

Terminals (CN)		Voltage	Remarks
1-3	1-2	12 V DC	12 V DC supply, output
1-5	1-4	5 V DC	5 V DC supply, output

# Fax System (F)

## Safety precautions

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

### Safety warnings and precautions

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

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

#### Symbols

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





Warning of risk of electric shock.



Warning of high temperature.

 $\odot$  indicates a prohibited action. The specific prohibition is shown inside the symbol.



Disassembly prohibited.

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



General action required.



Remove the power plug from the wall outlet.



Always ground the copier.

## **1. Installation Precautions**

## WARNING

• Do not use a power supply with a voltage other than that specified. Avoid multiple connections to one outlet: they may cause fire or electric shock. When using an extension cable, always check that it is adequate for the rated current.



• Connect the ground wire to a suitable grounding point. Not grounding the copier may cause fire or electric shock. Connecting the earth wire to an object not approved for the purpose may cause explosion or electric shock. Never connect the ground cable to any of the following: gas pipes, lightning rods, ground cables for telephone lines and water pipes or faucets not approved by the proper authorities.

## CAUTION:

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

## 2. Precautions for Maintenance

## WARNING

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

## 

- Wear safe clothing. If wearing loose clothing or accessories such as ties, make sure they are safely secured so they will not be caught in rotating sections.....
- Use utmost caution when working on a powered machine. Keep away from chains and belts. .....
- Handle the fixing section with care to avoid burns as it can be extremely hot. .....
- Check that the fixing unit thermistor, heat and press rollers are clean. Dirt on them can cause
   abnormally high temperatures.
- Do not remove the ozone filter, if any, from the copier except for routine replacement.....

Do not pull on the AC power cord or connector wires on high-voltage components when removing them; always hold the plug itself.	)
Do not route the power cable where it may be stood on or trapped. If necessary, protect it with a cable cover or other appropriate item.	)
Treat the ends of the wire carefully when installing a new charger wire to avoid electric leaks	
Remove toner completely from electronic components.	7
Run wire harnesses carefully so that wires will not be trapped or damaged	)
• After maintenance, always check that all the parts, screws, connectors and wires that were removed, have been refitted correctly. Special attention should be paid to any forgotten connector, trapped wire and missing screws.	
Check that all the caution labels that should be present on the machine according to the instruction handbook are clean and not peeling. Replace with new ones if necessary.	
<ul> <li>Handle greases and solvents with care by following the instructions below:</li></ul>	)
Never dispose of toner or toner bottles in fire. Toner may cause sparks when exposed directly to fire in a furnace, etc.	)
Should smoke be seen coming from the copier, remove the power plug from the wall outlet immediately.	•

## 3. Miscellaneous

## WARNING

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



## CONTENTS

1-1 Specifications	
1-1-1 Specifications	
1-1-2 Parts names and their functions	
(1) Main body	
(2) Operation panel	1-1-5
(3) Basic fax screen on the touch panel	
1-1-3 Mechanical construction	
1-2 Installation	
1-2-1 Unpacking and installation	1-2-1
(1) Unpacking and installation	
1-2-2 Setting and registering data	
(1) Settings	
(2) Registration	
1-2-3 Installing the optional memory module DIMM	1-2-11
1-3 Maintenance Mode	
1-3-1 Maintenance mode	1-3-1
(1) Maintenance mode item list	
(2) Contents of maintenance mode items	
1-4 Error Code	
1-4-1 Error codes	1-4-1
(1) Error code	
(2) Table of general classification	
(2-1) U004XX error code table: Interrupted phase B	
(2-2) U006XX error code table: Problems with the unit	
(2-3) U008XX error code table: Page transmission error	
(2-4) U009XX error code table: Page reception error	
(2-5) U010XX error code table: G3 transmission	
(2-6) U011XX error code table: G3 reception	
(2-7) U017XX error code table: V.34 transmission	
(2-8) U018XX error code table: V.34 reception (2-9) U023XX error code table: Relay command abnormal reception	
(2-10) U044XX error code table: Encrypted transmission	
1-5 Self Diagnosis	
1-5-1 Self-diagnosis	
(1) Self diagnostic codes	
1-5-2 Troubleshooting	1-0-3
1-6 Requirements on PCB Replacement	
1-6-1 Updating the firmware	
(1) Updating the firmware on the fax control PCB (Flash ROM)	
(2) Updating the firmware on the fax control PCB (Compact Flash card)	
2-1 Electrical Parts Layout	
2-1-1 Electrical parts layout	2-1-1
2-2 Operation of the PCBs	
2-2 Operation of the FODS 2-2-1 Fax control PCB	J_J_1
2-2-2 NCU PCB	
2-2-3 Auxiliary power source PCB	
	······································

## 1-1-1 Specifications

Туре	Optional Fax Kit
Compatibility	
Line Requirement	. Subscription telephone line
Transmission Speed	Within 3 seconds (33600 bps, JBIG, ITU-T #1 chart)
Modem Speed	33600/31200/28800/26400/24000/21600/19200/16800/14400/12000/9600/
	7200/4800/2400 bps
Data Compression	. JBIG/MMR/MR/MH
Error Correction	
Maximum Document Dimensions	Width: 11" [297 mm] Length: 63" [1600 mm]
Automatic Document Feeder Capacity	Duplex document processor: Max. 100 pages, document processor: Max. 70
	pages
Auxiliary Scanning Line Density	Horizontal $ imes$ Vertical
	Normal (8 dots/mm $\times$ 3.85 lines/mm)
	Fine (8 dots/mm $\times$ 7.7 lines/mm)
	Super fine (8 dots/mm $\times$ 15.4 lines/mm)
	Ultra fine (16 dots/mm $ imes$ 15.4 lines/mm)
Recording Resolution	
Grayscale	. 128 levels (Value differential diffusion)
Speed-Dial Keys	
Broadcast Transmission	
Polling Reception	
Installed Bitmap Memory	
	4 MB (including 1 MB of working memory)
Management Reports and Lists	Activity Report, Confirmation List, User Setting List, One-Touch Key List,
	Telephone Directory List, Program Dial List, Group Dial List, Encryption Key
	List, Restricted Access Report, Department List
Options	
Functions	See pages 1-1-2 to 1-1-3.

Reception functions	Manual reception Automatic reception Fax/telephone auto selection TAD reception D.R.D. reception <sup>*1</sup> Remote switching
Transmission functions	One-touch dialing <sup>*2</sup> Program dialing <sup>*2</sup> Group dialing <sup>*2</sup> Chain dialing <sup>*2</sup> Redialing (manual/automatic) Dial confirmation
Communication functions	Direct feed transmission Memory transmission Direct reception Memory reception (F-coded confidential reception and relay broadcast reception)
Additional communication functions	Broadcast transmission (up to 300 numbers) Polling communication Encrypted communication Password check communication Memory fax forwarding Reserved transmission Timer transmission Interrupt transmission Short protocol ECM F-coded transmission F-coded confidential reception F-coded bulletin board communication F-coded relay broadcast
Supplementary communication functions	Printing out from F-coded confidential box Manual transmission Telephone directory Transmission destination display Tone transmission Memory back-up (60 min.* <sup>3</sup> ) Entry into F-coded bulletin board Communication result display
Supplementary transmission functions	Batch transmission TTI transmission Bulletin board Rotation transmission Duplex transmission <sup>*4</sup> Initial communication speed setting
Supplementary reception functions	Memory reception 2-in-1 reception Auto reduce reception Rotation reception Duplex reception* <sup>5</sup> Recording paper setting (auto selection, fixed size or fixed cassette) During-reception copying Reception date and time recording

Reports	Activity report Transmission report Reception report Power failure report Delayed communication report Confirmation report User settings list Encryption key list Management report Department list One-touch key list Telephone directory list Program dial list Group dial list F-code confidential box list F-code relay box list
	F-code confidential box list
Others	Memory editing Remote diagnosis Department control for faxes Network fax functions <sup>*6</sup>

\*1: For 120 V specifications only.

\*2: To be registered under one-touch keys. Up to 600 one-touch keys can be used for one-touch dialing, program dialing, group dialing and chain dialing.

\*3: When the optional memory module DIMM is installed.

\*4: Available only when the duplex document processor is installed. \*5: Available only when the duplex unit is installed.

\*5: When the printer/scanner kit is installed.

## 1-1-2 Parts names and their functions

## (1) Main body

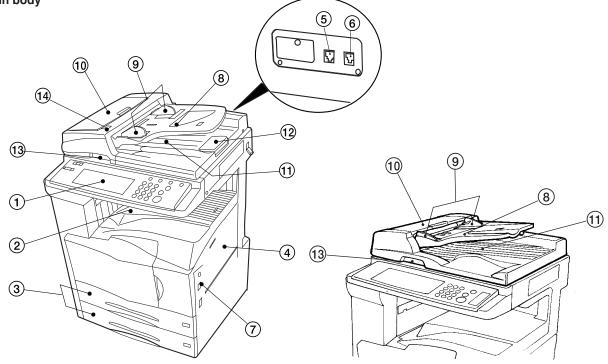
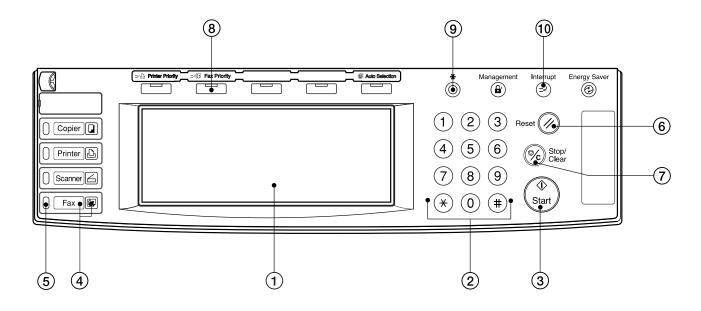


Figure 1-1-1

Figure 1-1-2

1 Operation panel	Use the operation panel to perform the procedures required for fax
2 Fax storage section	communication. Received documents are ejected and stored face-down in the fax storage
3 Drawers	section. Up to 250 sheets can be stored in this section at one time. This fax machine comes standard with two drawers installed. Each drawer can hold up to 500 sheets of plain paper (60 g/m <sup>2</sup> - 105 g/m <sup>2</sup> ).
4 Multi-Bypass	
5 Telephone jack (T)	Use this jack to connect a separately purchased telephone to the fax.
	Use this jack to connect the fax to a telephone line using the modular cord.
	Turn this switch ON (   ) in order to perform fax and copy operations. The message display will light and operation will be possible.
<ul> <li>Document Processor</li> </ul>	
	ors available for use with this machine: the document processors for feeding one-
	nent processor for using both sides of 2-sided documents.
	uplex document processor can be used with the 25 copies per minute machine.
	processor can be used with the 35/40 copies per minute machine.
8 Document table	Set the documents to transmit on the table. Up to 100 sheets of up to $11" \times 8$
	1/2" [A4] size paper, or up to 70 sheets of 8 $1/2$ " × 14" or 11" × 17" [A3 or
	Folio] size paper, can be set at one time when installing the duplex document
	processor. Up to 70 sheets of up to $11" \times 8^{1/2}$ " [A4] size paper, or up to 50 sheets of $8^{1/2}" \times 14"$ or $11" \times 17"$ [A3 or Folio] size paper, can be set at one
	time when installing the document processor.
9 Document insert quides	Adjust these guides to match the width of the documents.
	r Open this cover if a document jams.
11 Document eject cover	
	Open this guide when transmitting documents of a large size such as 8 1/2"
, 3	×14" or 11" × 17" [A3 or Folio].
13 Document processor open/close leve	er Operate this lever when opening and closing the document processor.
14 Document set indicator	This indicator indicates the status of the documents set in the document processor. Documents are set properly when the indicator is lit green.



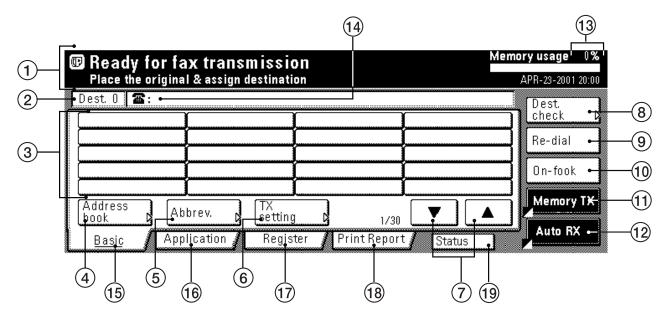


1	Touch panel	Indicates operation procedures as well as trouble with the machine. Keys related to operational procedures which appear on the touch panel with their name displayed are indicated in this handbook within double quotation marks. In addition, you will be instructed to "touch" any keys which appear on the touch panel rather than "press" them.
~		(Ex.: Touch the "xxx" key.)
2	кеураа	<ul> <li>Use the keypad to enter fax numbers, etc.</li> <li>* Even if your telephone service is for pulse dialing, press the star (*) key and any key pressed on the keypad after that will transmit the related tone signal. (Inch version only)</li> </ul>
3	Start key	Press this key when you want to initiate a fax communication.
4	Fax key/Fax indicator	Press this key when you want to switch between the Copy Operation and Fax Operation modes. The Fax indicator is lit when the machine is in the Fax Operation mode.
5	Fax data indicator	This indicator blinks during a fax communication. When received documents or other data are being stored in memory, this indicator will flash and then light continuously.
6	Reset key	Press this key when you want to cancel an operation in progress and have the touch panel return to the initial mode settings.
7	Stop/Clear key	Press this key when you want to delete registered fax numbers or names, as well as when you want to stop an operation in progress.
8	Fax Priority key	Press this key when you want to give priority to printing out a received fax during a copy operation.
9	Default key	Press this key when you want to perform settings related to the various default modes for the fax functions of this machine.
10	Interrupt key/indicator lamp	Press this key when you want to interrupt a fax reception in order to make copies. The indicator lamp in the Interrupt key will light when the machine is in the Interrupt mode.

#### (3) Basic fax screen on the touch panel

The initial screen that appears in the touch panel when you press the Fax key in any other mode in order to change to the Fax Operation mode is called the "basic fax screen". The following contains information on the basic keys which are displayed in this screen and their functions.

#### Inch



Metric

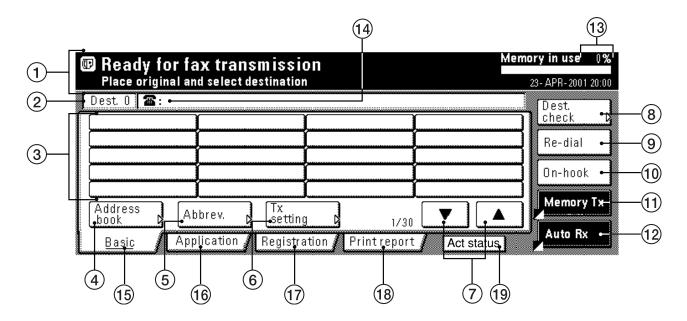
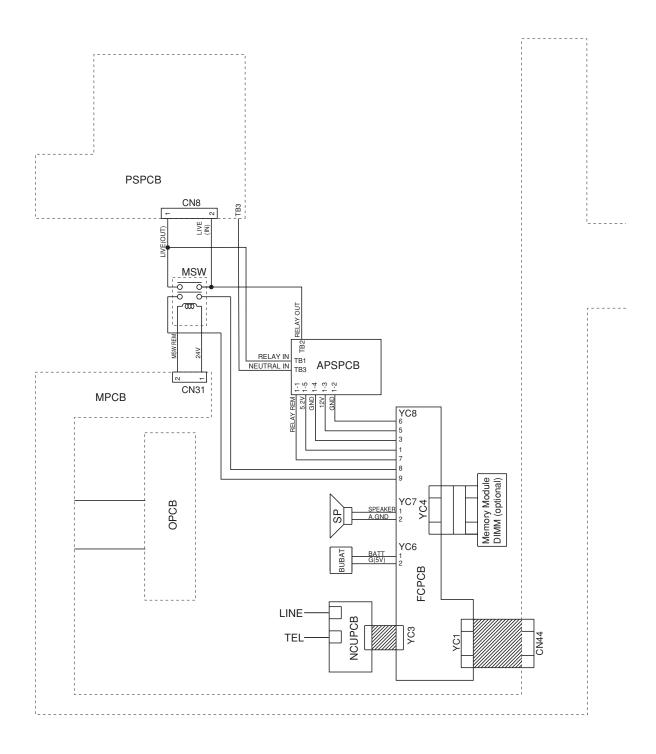


Figure 1-1-4

3DB

1 Message display	Current status, the next step in a procedure and error messages are shown in the message display.
	The number of destinations that you have chosen to dial to is shown in this area. Keys that you have registered to function as either a one-touch key, a group dial key (G), a program key (P) or a chain dial key (C) are displayed here.
	<ul> <li>Touch this key when you want to use the address book.</li> <li>Touch this key when you want to use the abbreviated number that a destination number is registered under in order to dial that number.</li> </ul>
6 "TX setting" key	Touch this key when you want to perform settings related to transmission conditions such as the size of the documents to be transmitted, the image quality of those documents, the contrast at which you want to send them and the time when they should be sent. Once you press this key, the TX Setting screen will appear.
	Use these keys when you want to display speed-dial keys other than those which are currently displayed.
8 "Dest. check" key	Touch this key when you have entered multiple destination fax numbers using speed-dial keys, etc., and you want to check the list of those numbers.
9 "Re-dial" key	Touch this key when you want to have the fax automatically redial the most recently dialed number
10 "On-hook" key	When a separately purchased telephone is connected to this fax machine and you touch this key, you can dial a destination number without having to pick up the receiver.
11 "Memory TX" / "Dir. Feed Tx" key	When you want to switch between the Memory Transmission mode ("Memory Tx") and the Direct Feed Transmission mode ("Dir. Feed Tx"). The mode will change each time you touch this key.
12 Reception mode select key	Touch this key when you want to select a different reception mode. The display will change to the reception mode selection screen where you can select the desired reception mode by touching the "Auto RX", "Manual RX" or "Answering Machine" key, as appropriate.
·	Indicates the amount of data stored in memory. As documents are being stored, the bar will move towards "100%" indicating that the data stored in memory is increasing. Once it reaches "100%", no more documents can be stored in memory.
	The number that you have entered to dial is displayed here.
	Touch this key when you want to return to the basic fax screen.
	Touch this key when you want to use one of the various functions of this fax machine such as polling, etc.
17 "Register" ["Registration"] key	Touch this key when you want to perform one of the various registration procedures of this fax machine.
18 "Print Report" key	Touch this key when you want to print out one of the various reports or lists of this fax machine.
19 "Status" ["Act status"] key	This key is displayed during a transmission, reception or printout. Touch this key when you want to verify the contents of the operation.

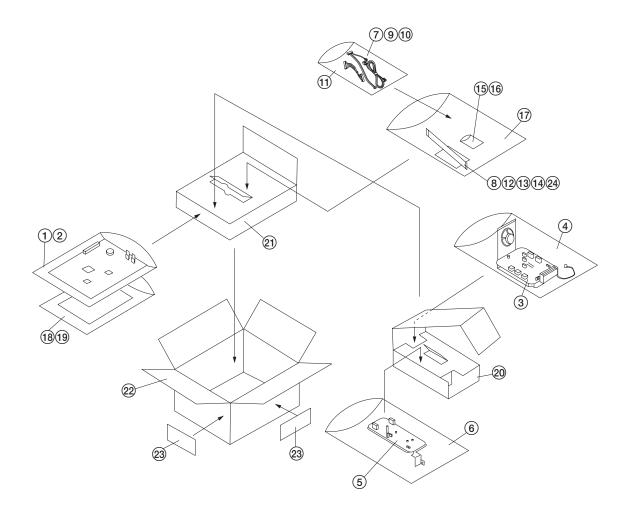




#### Figure 1-1-5

The fax system consists of the fax control PCB (FCPCB), NCU PCB (NCUPCB), auxiliary power source PCB (APSPCB), speaker (SP), backup battery (BUBAT) and optional memory module DIMM.

#### (1) Unpacking and installation



#### Figure 1-2-1 Unpacking

- Fax control PCB
   Antistatic air-padded bag
   NCU board assembly
- (4) Antistatic air-padded bag
- 5 Auxiliary power source PCB assembly
- (6) Antistatic air-padded bag
- 7 NCU cable
  8 FCC68 label\*
- 9 FAX-PCB-Power cable
- (1) "B" modular connector cable\*
- 11 Plastic bag 12 NW-FAX CD-ROM
- (13) Fax cable

- (14) IC line label\*
- $(\overline{15})$  TP-A chrome binding screw M3  $\times$
- 06
- 16 Plastic bag
- 17 Plastic bag
- (18) Operation guide
- (19) Plastic bag
- 20 Upper spacer
- (21) Bottom spacer
- 2 Outer case
- 23 Barcode labels
- A Fax-kit label sheet

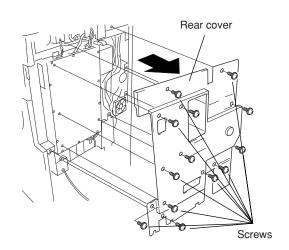
\*For 120 V specifications only.

#### 3DB

Turn the machine's main switch to OFF and unplug the copier from the power supply before starting this procedure.

#### <Procedure>

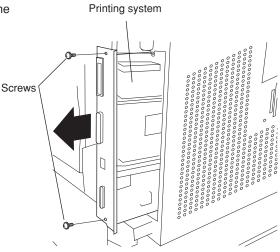
1. Remove 13 screws and take off the rear cover.





2. If the printing system is installed, remove the 2 screws and pull the printing system out of the controller box.

3. Remove 13 screws and take off the controller-box cover.





Controller-box cover



4. Move the shielding cover out of the way to the left, and fasten the fax control PCB into place using four  $M3 \times 06$  chrome binding screws.

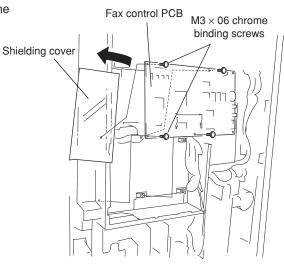


Figure 1-2-5

5. Connect the NCU cable to connector CN1 on the NCU board assembly.

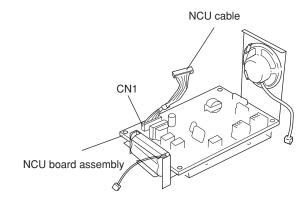


Figure 1-2-6

- 6. Fasten the NCU board assembly into place from the bottom with two M3  $\times$  06 chrome binding screws.
- 7. Connect the three connectors from the NCU board assembly to the corresponding connectors on the fax control PCB, as follows:
  - Speaker 2-pin connector  $\rightarrow$  YC7 NCU cable connector  $\rightarrow$  YC3

  - Battery connector  $\rightarrow$  YC6

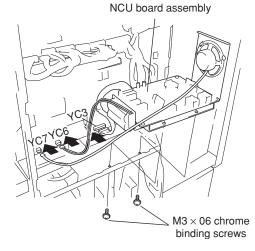
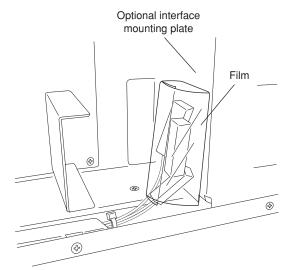


Figure 1-2-7

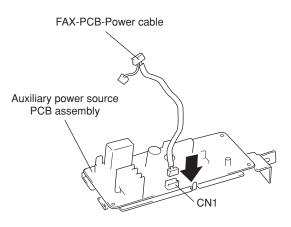
8. Remove the film that fixes the three positive connectors of the power source PCB from the optional interface mounting plate. Important: Dispose of the film that has been removed.

9. Connect the FAX-PCB-Power cable to connector CN1 on the

auxiliary power source PCB assembly.









- 10. Connect the three positive connectors on the power board to the corresponding connectors on the auxiliary power source PCB assembly as follows.
  - White positive connector  $\rightarrow$  TB1 (white)
  - Green positive connector  $\rightarrow$  TB2 (green)
  - Small white positive connector  $\rightarrow TB3$

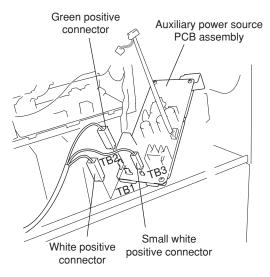


Figure 1-2-10

#### 3DB

3DB

11. Fit the catch on the auxiliary power unit into the mount hole in the copier, and fasten the auxiliary power unit into place with one M3  $\times$  06 chrome binding screw.

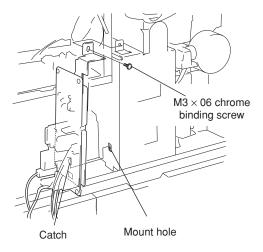


Figure 1-2-11

- 12. Through the opening of controller-box above the speaker, connect the FAX-PCB-Power cable on the auxiliary power source PCB assembly to connector YC8 on the fax control PCB.
  13. Connect the 2-pin connector to the 2-pin connector with green cable.
  Fax control PCB
  Fax control PCB
  Pax control PCB</li
- 14. Unlock YC1 on the fax control PCB by pulling its connector housing.
- 15. Hold the fax cable with its conductive side facing up, insert it into connector YC1, then push the housing back in to lock the connector.
- 16. Hold the other end of the fax cable with its conductive side facing down, and connect it to connector CN44 on the main PCB. (Pull the CN44 housing out to release the connector lock, then insert the cable, and then push the housing back in.) Important: Be sure to push the fax cable all the way in, and be sure that the connection is straight. A poor connection may result in a variety of problems.
- 17. Refit the controller-box cover.

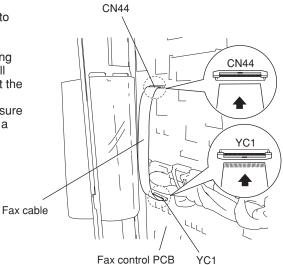
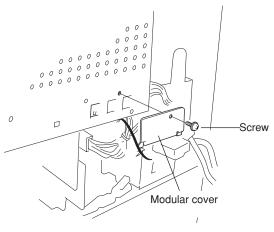


Figure 1-2-13

18. Remove 1 screw and take off the modular cover.





- 19. Hang the modular cover onto the holes on the controller-box cover, and fasten it into place with 1 screw. 20. If the printing system was installed, refit the printing system into the
- controller box.
- 21. Refit the rear cover.

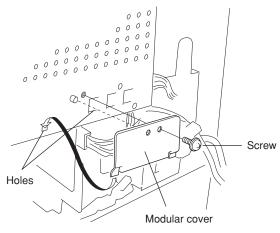


Figure 1-2-15

120 V specifications only 22. Adhere the IC line label and FCC68 label to the rear cover at the locations indicated in the diagram.

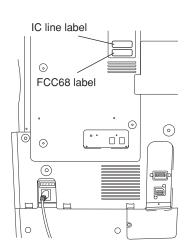


Figure 1-2-16

23. Take the power label from the fax-kit label sheet, and adhere it to the copier directly under the main switch.

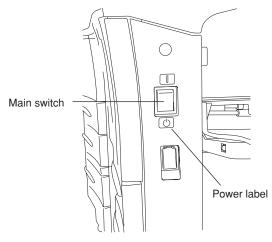


Figure 1-2-17

- 24. Take the alphabet labels from the fax-kit label sheet, and adhere them above the corresponding numeric keys on the operation panel.
  - In Asia, use the "PQRS TUV WXYZ" label, and do not use the "PRS TUV WXZ" and "OPER" labels.

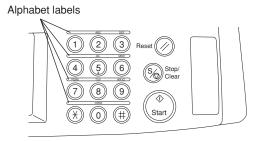


Figure 1-2-18

25. Connect the telephone circuit to the L terminal by inserting the modular connector cable into the line terminal (L). Important: On 120 V specifications, use the included "B" modular connector cable to make the connection.

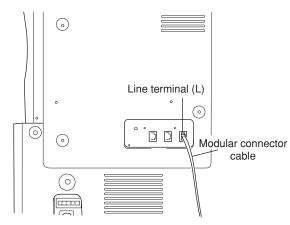


Figure 1-2-19

#### Initialization procedure after installation of facsimile system

- 1. Insert the machine power plug to the wall outlet and turn the main switch on.
- 2. Run maintenance item U601.
- 3. Enter a destination code using the numeric keys (refer to the
  - destination code list) and then press the start key.

\* Enter a destination code with three digits.

Code	Destination	Code	Destination	Code	Destination
000	Japan	159	South Africa	253	Sweden
009	Australia	169	Thailand		France
080	Hong Kong	181	U.S.A.		Austria
084	Indonesia	242	South America		Switzerland
088	Israel	243	Saudi Arabia		Belgium
108	Malaysia	253	CTR21 (European nations)		Denmark
126	New Zealand		Italy		Finland
136	Peru		Germany		Portugal
137	Philippines		Spain		Ireland
152	Middle East		U.K.		Norway
156	Singapore		Netherlands	254	Taiwan

- 4. Enter the OEM code (000) and then press the start key.
- Confirm that the display is changed as shown in the illustration.
   \* At the position of @, the version number of the software is displayed.
- 6. Press the cursor key to change the display to maintenance item U602.

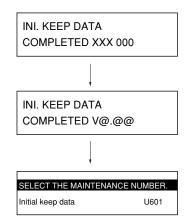


Figure 1-2-20

- 7. Press the start key and confirm that the display is changed as shown in the illustration.
  - \* At the position of @, the version number of the software is displayed.
- 8. After completing the installation, run a communications test to confirm that the fax system is working correctly.

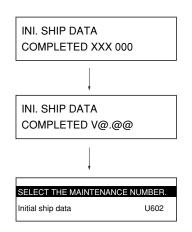


Figure 1-2-21

#### 1-2-2 Setting and registering data

After setting up the machine, set or register the following data.

#### (1) Settings

- Setting the type of telephone line\*1
- Select the setting (pulse or tone) according to the type of telephone line to be used.
- Setting the TTI transmission
- Select whether or not to add the transmit terminal identifier (TTI) to the transmitting document.
- Setting report output condition
- Select the output condition for the management report (output or not output by department).
- Select the output condition for the activity report (output or not output after every 50 communications)
- Select the output condition for the transmission report (output or not output after each transmission)
- Select the output condition for the reception report (output or not output after each reception)
- Select the output condition for the timer communication report (output or not output after each timer programming).
- Select the output condition for the network fax transmission report.\*2
- · Setting the password check communication
- Select whether or not to perform password check communication.
- · Setting the memory fax forwarding
- Select whether or not to perform memory fax forwarding.
- Setting the bulletin board
- Select whether or not to use the bulletin board during polling transmission.
- · Setting the number of rings for automatic reception
- Select the number of rings (1 to 15) that sound after call reception until fax data reception starts in the auto reception mode.
- Setting the number of rings for TAD reception
- Set the number of rings (1 to 15) that sound after call reception until fax data reception starts in the TAD reception mode.
- Setting the number of rings for fax/telephone auto select mode<sup>\*1</sup> Set the number of rings (0 to 15) that sound after call reception until fax data reception starts in the fax/telephone auto select mode.
- · Setting the speaker volume
- Set the volume of the speaker in the on-hook mode (4 levels).
- Setting the alarm buzzer volume
- Set the volume of the alarm that sounds during events such as when an error occurs (3 levels).
- Setting the monitoring volume
- Set the volume for the sounds from the speaker (4 levels).
- · Setting the document size for scanning from the document processor
- Select the setting ("Standard size original" or "Long original") for scanning the original fed from the document processor. • Setting the default transmission mode
- Select the transmission mode (memory transmission or direct feed transmission) to be used in the initial mode.
- Setting the reception mode
- Select an automatic reception mode (automatic fax reception, fax/telephone auto selection or D.R.D. reception\*1).
- Setting reception date and time recording
   Select whether or not to record the date and time on received docum
- Select whether or not to record the date and time on received documents. • Setting the paper feed selection mode
- Select the paper feed mode ("Auto Selection mode", "Fixed Size mode" or "Fixed Cassette mode") for printing received fax or reports.
- Setting the manual paper feed
- Select whether or not to use the multi-bypass to feed paper for printing received faxes.
- Setting 2-in-1 reception
- Select whether or not to output two successively-received  $A5/8^{1/2}$ "  $\times 5^{1/2}$ " documents onto one A4R/8<sup>1/2</sup>"  $\times 11$ " page. • Setting duplex reception<sup>\*3</sup>
- Select whether or not to print received documents on both sides of the paper.
- Setting the network fax reception\*2
- Set to perform network fax reception. • Setting for saving the documents for transmission\*<sup>2</sup>
- Select whether or not to save the transmitted documents on the server computer.
- Setting the file type<sup>\*2</sup>

Select the file type in which the documents for transmission, or of received documents, will be saved in the server computer.

- Setting remote diagnosis
- Set to take advantage of our remote diagnosis system.
- Setting the restricted access

Turn the restricted access on or off.

- \*1: For 120 V specifications only.
- \*2: When the printer/scanner kit is installed.
- \*3: When the duplex unit is installed.

#### (2) Registration

- Date and time
- Set the current date and time.
- Self station information
- Register the self telephone number, self station name and self station ID.
- One-touch dialing
- Register destination fax (telephone) numbers and names under one-touch keys. Up to 600 entries can be registered. • Group dialing
- Register multiple destination fax (telephone) numbers and names under a one-touch key for group dialing. Up to 50 entries can be registered as group dial keys or program keys.
- Program dialing
- Register frequently used communication modes or fax numbers under one-touch keys. Up to 50 entries can be registered as program dial keys or group keys.
- Chain dialing
- Register chain numbers and names under one-touch keys.
- F-code confidential boxes
- Register F-code confidential boxes for F-code based confidential communication. Up to 100 boxes can be registered. • F-code relay boxes
- Register F-code relay box for F-code based relay broadcast communication. Up to 15 boxes can be registered. • Encryption boxes
- Register encryption boxes for receiving encrypted transmissions. Up to 15 boxes can be registered.
- · Permit telephone numbers and IDs
- Register the password (permit telephone number or ID) for password check communication.
- Fax forwarding
- Register the destination and designated hours for fax forwarding.
- Remote switching number
- Change the remote switching number, which is set to "55" at the factory, for receiving faxes using the telephone connected to the machine.
- Remote test ID
- Register the designated remote test ID for remote diagnosis.
- Management password
- Register a 4-digit password, which is set to "6482" at the factory, for encrypted communication.
- Access codes
- Register access codes for restricted access. Up to 50 codes can be registered.
- Cipher key password
- Register a 16-digit cipher key password for encrypted communication.
- File name (transmission/reception)\*
- Register the default file name when documents which have been transmitted or received using the network fax functions are saved in the designated folder.
- IP address / Host name\*
- Register the IP address or host name of the server computer in which documents which have been received using the network fax functions are saved.
- Administrator's e-mail address\*
- Register the e-mail address of the computer to be notified in case of an error, as well as where to send Transmission and Reception Reports.
- Save folder number\*
- Register the number of the folder in which documents which have been transmitted or received using the network fax functions will be saved.

\*When the printer/scanner kit is installed.

#### 1-2-3 Installing the optional memory module DIMM

Memory module DIMM installation on the fax control PCB requires the following parts: 8 MB memory module DIMM (P/N: 2AW6001)  $\,$ 

<Procedure>

1. Remove 13 screws and take off the rear cover.

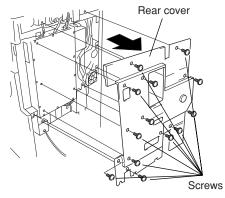


Figure 1-2-22

2. If the printing system is installed, remove the 2 screws and pull the printing system out of the controller box.

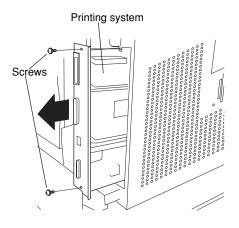


Figure 1-2-23

3. Remove 13 screws and take off the controller-box cover.

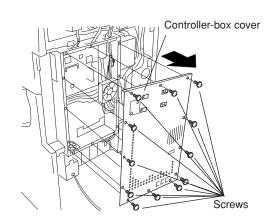


Figure 1-2-24

#### 3DB

 Insert the memory module DIMM (8MB) at an angle into the memory slot on the fax control PCB. Important: The memory module DIMM (8MB) must be installed onto the fax control PCB. Please be sure that you do not install it onto the main PCB.

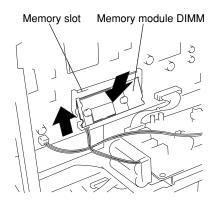


Figure 1-2-25

- 5. Push the free end of the module down toward the fax control PCB.
- 6. Refit all removed parts.

#### **1-3-1 Maintenance mode** (1) Maintenance mode item list

Section	Item No.	Maintenance item contents	Initial setting*
ax	U600	Initializing all data	_
	U601	Initializing permanent data	
	U602	Setting factory defaults	
	U603		
		Setting the self telephone number	
		<ul> <li>Setting the type of telephone line</li> <li>Setting the number of rings in the fax/telephone auto select mode</li> </ul>	
		Setting remote diagnostic transmission	
	U604	Clearing data	
		Clearing transmission history	_
		Initializing the management password	_
		<ul> <li>Initializing the F-code confidential box ID</li> <li>Initializes the F-code relay box ID</li> </ul>	_
		Initializes the encription box ID	
	U605	Setting the system (operational)	
		Setting how to proceed if memory becomes full	
		during memory transmission	—
		Setting an alarm for when reception is completed	—
		<ul> <li>Selecting if auto reduction in the auxiliary direction is to be performed</li> <li>Setting the addition of an image to the report</li> </ul>	
		Setting the error report display format	
		Setting the line-monitoring period	_
		<ul> <li>Setting the one-shot detection time for remote switching</li> </ul>	_
		Setting the continuous detection time for remote switching	—
	11000	Setting the initial condition of fax image scanning quality	
	U606	<ul> <li>Setting the system (operation unit and display)</li> <li>Setting the conditions under which an error indicator turns off</li> </ul>	
		Setting the date format	
		Setting if the image scanning quality in fax mode is initialized	_
		Setting if the scanning density in fax mode is initialized	—
		Setting whether to skip unregistered abbreviated numbers	
		<ul><li>and one-touch key numbers on the list</li><li>Setting the used port entry in the activity report</li></ul>	
	U607	Setting the system (communication 1)	
		Setting the auto redialing interval	_
		<ul> <li>Setting the number of times of auto redialing</li> </ul>	—
		Setting the communication starting speed	_
		<ul> <li>Setting the reception speed</li> <li>Setting the mode for remote switching</li> </ul>	
		Setting the transmission intervals	
		<ul> <li>Sets the loop current detection before dialing</li> </ul>	—
		Sets the DIS signal to 4 bytes	—
	U608	Setting transmission	
		<ul> <li>Setting the method to process errors</li> <li>Setting the number of times of DIS signal reception</li> </ul>	
		Setting the reference for RTN signal output	
		<ul> <li>Setting the waiting period to prevent echo problem at the sender</li> </ul>	_
		Setting the waiting period to prevent echo problem at the receiver	—
		Setting ECM transmission	—
		<ul> <li>Setting ECM reception</li> <li>Setting the criteria for receiving a TCF signal 1</li> </ul>	
		Setting the frequency of the CED signal	_
	U609	Setting communication time	
		Setting the T0 time-out time	—
		Setting the T1 time-out time	
		Setting the T2 time-out time     Setting the T2 time out time	69 30
		<ul> <li>Setting the Ta time-out time</li> <li>Setting the Tb1 time-out time</li> </ul>	20
		Setting the Tb2 time-out time	80
		Setting the Tc time-out time	60
		Setting the Td time-out time	—

Section	Item No.	Maintenance item contents	Initial setting
<sup>=</sup> ax	U610	Setting the modem output level • Setting the modem output level • Adjusting the modem output level	_
	U611	G3 cable equalizer • Setting the G3 transmission cable equalizer • Setting the G3 reception cable equalizer	_
	U612	Setting the modem detection level	—
	U613	Setting the DTMF output level • Setting the DTMF (high-frequency group) output level • Setting the DTMF (low-frequency group) output level	_
	U614	Adjusting the DTMF output level • Adjusting the DTMF (high-frequency group) output level • Adjusting the DTMF (low-frequency group) output level	_
	U615	Setting the NCU • Setting the connection to PBX/PSTN • Setting PSTN dial tone detection • Setting busy tone detection • Setting for a PBX	 
	U616	Adjusting the ratio of make-to-break of dial pulses • Make time (10 PPS) • Make time (20 PPS)	
	U617	Outputting lists • Settings list • Action list • Own-status report • Protocol list • One-touch dialing ECM setting list	 
	U650		3 3 <u>3</u> 
	U651	<ul> <li>Setting the system 2</li> <li>Setting the variation range in the auxiliary scanning direction for rotation reception</li> <li>Setting the number of adjustment lines for automatic reduction</li> <li>Setting the number of adjustment lines for automatic reduction when A4 paper is set</li> <li>Setting the number of adjustment lines for automatic reduction when letter size paper is set</li> </ul>	3 7 22 26
	U660	Setting the system (communication 2) • Setting the criteria for receiving a TCF signal 2 • Setting the short protocol transmission • Setting the reception of a short protocol transmission • Setting the CNG detection times in the fax/ telephone auto select mode • Turning ECM for one-touch dialing on/off	 
	U670	Setting the system (communication 3) • Setting if V.34 transmission is available • Setting the V.34 symbol speed (3429 Hz) • Setting the V.34 symbol speed (3200 Hz) • Setting the V.34 symbol speed (3000 Hz) • Setting the V.34 symbol speed (2800 Hz)	 
	U680	Displaying the fax board ROM version	_

Section	Item No.	Maintenance item contents	Initial setting
Fax	U881	Using the flash-memory jig • Saving data from SRAM into the jig • Writing data from the jig into RAM • Writing the boot program into the jig • Reading one-touch/abbreviated dial information • Writing one-touch/abbreviated dial information	
	U882	Setting the software switches	_
	U894	Performing board test • Performing tests on SRAM and DRAM • Performing tests on optional memory	=
	U898	Setting the ports for maintenance mode	_
Others	U898 U992		

#### (2) Contents of maintenance mode items

Maintenance	Description
item No. U600	Initializing all data
	<b>Description</b> Initializes software switches and all data in the SRAM on the fax control PCB, according to the destination and OEM.
	Purpose Used to initialize the fax control PCB.
	<ul> <li>Method</li> <li>1. Press the start key. The screen for entering the destination code is displayed. Enter a destination code using the numeric keys (refer to the destination code list on page 1-3-5 for the destination code).</li> </ul>
	INI. ALL DATA COUNTRY CODE:000
	2. Press the start key. The screen for entering the OEM code is displayed. There is no operation necessary on this screen.
	INI. ALL DATA OEM CODE:000
	<ol> <li>Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.</li> <li>After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later.</li> </ol>
	INI. ALL DATA COMPLETED 000 000
	INI. ALL DATA COMPLETED V1.00
	<b>Caution</b> If initialized with "000" (code for Japan) entered as the destination code, service call code C0820 (fax control PCB problem) will be detected. Be sure to enter the correct destination code. If C0820 (fax control PCB problem) is detected, press the COPY key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.

Maintenance item No.	Description							
U600	Destination code list							
(cont.)	Code	Destination	Code	Destination	Code	Destination		
	000 009 080 084 088 108 126 136 137	Japan Australia Hong Kong Indonesia Israel Malaysia New Zealand Peru Philippines	159 169 181 242 243 253	South Africa Thailand U.S.A. South America Saudi Arabia CTR21 (European nations) Italy Germany Spain	253	Sweden France Austria Switzerland Belgium Denmark Finland Portugal Ireland		
	157 152 156	Middle East Singapore		U.K. Netherlands	254	Norway Taiwan		
	<ol> <li>Located and the second s</li></ol>							
	destination Purpose Used to it Method 1. Pres Ente desti	on and OEM. initialize the fax contr s the start key. The so r a destination code nation code).	ol PCB with creen for er	that for machine data on the hout changing user registration ntering the destination code is on numeric keys (refer to the desting the d	data and displayed	factory settings.		
	destination Purpose Used to in Method 1. Pres Ente desti CC 2. Pres Ther INI	on and OEM. initialize the fax contr s the start key. The so r a destination code nation code). . KEEP DATA DUNTRY CODE:000 s the start key. The so e is no operation nec . KEEP DATA	ol PCB with creen for er using the r	hout changing user registration ntering the destination code is o numeric keys (refer to the desti ntering the OEM code is display	data and displayed ination co	factory settings.		
	destination Purpose Used to in Method 1. Press Enter destin CC 2. Press Therr INI OE 3. Press 4. After	on and OEM. initialize the fax contr is the start key. The so r a destination code nation code). . KEEP DATA OUNTRY CODE:000 s the start key. The so e is no operation nec . KEEP DATA EM CODE:000 s the start key. Data i	ol PCB with creen for er using the r creen for er essary on t nitialization	hout changing user registration ntering the destination code is o numeric keys (refer to the desti ntering the OEM code is display	data and displayed ination co yed.	factory settings. de list on page 1-3-5 for sthe stop/clear key.		
	destination Purpose Used to in Method 1. Press Enter destin CC 2. Press Therr INI OE 3. Press 4. After displi INI	on and OEM. initialize the fax contr is the start key. The so r a destination code nation code). . KEEP DATA DUNTRY CODE:000 s the start key. The so e is no operation nec . KEEP DATA EM CODE:000 s the start key. Data i data initialization, th ayed two seconds lat	ol PCB with creen for er using the r creen for er essary on t nitialization ie entered er.	hout changing user registration ntering the destination code is o numeric keys (refer to the destination ntering the OEM code is display this screen.	data and displayed ination co yed.	factory settings. de list on page 1-3-5 for sthe stop/clear key.		

If initialized with "000" (code for Japan) entered as the destination code, service call code C0820 (fax control PCB problem) will be detected. Be sure to enter the correct destination code. If C0820 (fax control PCB problem) is detected, press the COPY key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.

laintenance item No.	Description									
U602	Setting factory defaults									
	<b>Description</b> Initializes software switches other than that for machine data and the SRAM on the fax control PCB, according to the destination and OEM.									
	<b>Purpose</b> Used to initialize the fax control PCB to the factory default.									
	<ul> <li>Method</li> <li>1. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.</li> <li>2. After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later.</li> </ul>									
	INI. SHIP DATA COMPLETED 000 000									
	INI. SHIP DATA COMPLETED V1.00									

Bits         Description           6603         Setting the user registration data           Description           Makes user settings to enable the use of the copier as a fax.           Purpose           To be run after installation of the facsimile kit if necessary.           Start           1. Press the start key. The screen for selecting an item is displayed.           2. Press the appropriate item.           The screen for the selected item appears.           SetF TEL No.         Sets the self telephone number.           LINE TYPE         Sets the self telephone number.           RINGS (F/T) #         Sets remote diagnostic transmission.           Setting the self telephone number of rings in fax/telephone number, reset bit stop/clear key.           Up to 20 digits can be entered.           To correct the entered telephone intered.           To return to the screen for selecting an item, press the stop/clear key.           The item-selection screen does not reappear until registration or deletion processing is contention screen does not reappear until registration or deletion processing is contention in the fax/telephone auto select mode.           Setting the otype of rings in the fax/telephone auto select mode.           1: DTMF         DTMF           2: 0         20 PPS           3: 20         20 PPS           3: 20         20 PPS	Description									
Description           Makes user settings to enable the use of the copier as a fax.           Purpose           To be run after installation of the facsimile kit if necessary.           Start           1. Press the start key. The screen for selecting an item is displayed.           2. Press the appropriate item.           The screen for the selected item appears.           Set IF TEL No.         Sets the self telephone number.           LINE TYPE         Sets the sup of telephone number.           RINGS (F.T) #         Sets the number of rings in fax/telephone auto select mode.           REMOTE DIAG         Sets remote diagnostic transmission.           Setting the self telephone number         Use of telephone number or to delete the stored telephone number, reset by stop/clear key.           1. Forter the telephone number or to delete the stored telephone number, reset by stop/clear key.         Press the start key.           3. To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is correcting the type of telephone line           1. Change the setting using the numeric keys.         Display           1. Dift         DTMF           2. 10         10 PPS           3. 20         20 PPS           3. 20         20 PPS           3. 20         20 PPS										
Purpose         To be run after installation of the facsimile kit if necessary.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the start key. The screen for selecting an item is displayed.         3. Press the start key. The screen for selecting an item is displayed.         2. Press the start key. The screen for selecting an item is displayed.         SELF TEL No.       Sets the self telephone number.         LINE TYPE       Sets the number of rings in fax/telephone auto select mode.         RINGS (F/T) #       Sets the number of rings in fax/telephone number, reset by stop/clear key.         Up to 20 digits can be entered.       To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.       3. To return to the screen for selecting an item, press the stop/clear key.         To the setting using the numeric keys.       Display Description         1. DTMF       DTMF         2. 10       10 PPS         3. 20       20 PPS         3. 20       10 PPS <td< td=""><td></td></td<>										
To be run after installation of the facsimile kit if necessary.         Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item.         The screen for the selected item appears.         SELF TEL No.         Sets the self telephone number.         LINE TYPE         REMOTE DIAG         Sets the self telephone number.         REMOTE DIAG         Sets mote diagnostic transmission.         Setting the self telephone number         1. Enter the telephone number using the numeric keys.         Up to 20 digits can be entered.         To ocrect the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         3. To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is contention get the screen for selecting an item, press the stop/clear key.         3. To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is contention get the screen for selecting an item, press the stop/clear key.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode										
Start         1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item. The screen for the selected item appears.         Image: Start Key. The screen for selecting an item is displayed.         SELF TEL No. SELF TEL No. Sets the self telephone number. LINE TYPE Sets the type of telephone ine. REMOTE DIAG         Sets the self telephone number of rings in fax/telephone auto select mode. REMOTE DIAG         Sets remote diagnostic transmission.         Setting the self telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.         3. To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is corr         Setting the type of telephone line         1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys. <td colspan="9">•</td>	•									
1. Press the start key. The screen for selecting an item is displayed.         2. Press the appropriate item.         The screen for the selected item appears. <b>Display Sets</b> the syle of telephone number. LINE TYPE         Sets the number of rings in fax/telephone auto select mode. REMOTE DIAG         Sets remote diagnostic transmission.             Setting the self telephone number using the numeric keys. Up to 20 digits can be entered. To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.             Press the start key.             To return to the screen for selecting an item, press the stop/clear key. To return to the screen for selecting an item, press the stop/clear key.             To return to the screen for selecting an item, press the stop/clear key.             To return to the screen for selecting an item, press the stop/clear key.             To return to the screen for selecting an item, press the stop/clear key.             Display         Description             1: DTMF         DTMF             2: 10             1: 0 PPS             3: 20             2: 0 Fiss the start key.             3: 20             2: Press the start key.             1: DTMF										
2. Press the appropriate item.         The screen for the selected item appears.         SELF TEL No.         SELF TEL No.         LINE TYPE         Sets the self telephone number.         LINE TYPE         Sets the number of rings in fax/telephone auto select mode.         REMOTE DIAG         Sets remote diagnostic transmission.         Setting the self telephone number         1. Enter the telephone number using the numeric keys.         Up to 20 digits can be entered.         To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.         3. To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is corresting the type of telephone line         1. Otharge the setting using the numeric keys.         Display       Description         1. DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mo										
Display         Description           SELF TEL No.         Sets the self telephone number.           LINE TYPE         Sets the type of telephone line.           RINGS (F/T) #         Sets the number of rings in fax/telephone auto select mode.           REMOTE DIAG         Sets remote diagnostic transmission.           Setting the self telephone number         Sets remote diagnostic transmission.           Setting the self telephone number using the numeric keys.         Up to 20 digits can be entered.           To correct the entered telephone number or to delete the stored telephone number, reset be stop/clear key.         To return to the screen for selecting an item, press the stop/clear key.           To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is corresting the type of telephone line           1.         Change the setting using the numeric keys.         Display           Display         Description           1:         DTMF         DTMF           2: 10         10 PPS           3: 20         20 PPS           2:         To return to the screen for selecting an item, press the stop/clear key.           Setting the number of rings in the fax/telephone auto select mode           Use this if the user wishes to adjust the number of rings that occcur before the unit switches into mode when fax/telephone auto-se										
SELF TEL No.       Sets the self telephone number.         LINE TYPE       Sets the type of telephone line.         RINGS (F/T) #       Sets the number of rings in fax/telephone auto select mode.         REMOTE DIAG       Sets remote diagnostic transmission.         Setting the self telephone number       Sets remote diagnostic transmission.         Setting the self telephone number       Sets remote diagnostic transmission.         Setting the self telephone number using the numeric keys.       Up to 20 digits can be entered.         To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         3. To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is corresting the type of telephone line         1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2: No return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the numeric keys.         Display       Description         Setting range         Number of fax/telephone rings       0 to 15 <td></td>										
LINE TYPE       Sets the type of telephone line.         RIMCS (F/T) #       Sets the number of rings in fax/telephone auto select mode.         Setting the self telephone number       Sets remote diagnostic transmission.         Setting the self telephone number using the numeric keys.       Up to 20 digits can be entered.         To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.         3. To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is correcting the type of telephone line         1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys.         Description       Setting range         Number of fax/telephone rings       0 to 15         If you set this to 0, the u										
RINGS (F/T) # REMOTE DIAG       Sets the number of rings in fax/telephone auto select mode. Sets remote diagnostic transmission.         Setting the self telephone number 1. Enter the telephone number using the numeric keys. Up to 20 digits can be entered. To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         Press the start key.       To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is corr Setting the type of telephone line         1. Change the setting using the numeric keys.       Display       Description         1: DTMF       DTMF       2: 10       10 PPS         3: 20       20 PPS       20 PPS         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode       Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.       Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting transmission       0 to 15       If you set this to 0, the unit will start fax reception without any ringing.         Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key. </td <td></td>										
REMOTE DIAG       Sets remote diagnostic transmission.         Setting the self telephone number       1. Enter the telephone number using the numeric keys. Up to 20 digits can be entered. To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.       3. To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is correcting the type of telephone line         1. Change the setting using the numeric keys.           1. TOTMF       DTMF         2. 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys.         Image the setting using the numeric keys.										
Setting the self telephone number using the numeric keys. Up to 20 digits can be entered. To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.         3. To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is corr Setting the type of telephone line         1. Change the setting using the numeric keys. <u>Display</u> <u>Description</u> <u>1</u> : DTMF <u>1</u> : DTMF <u>2</u> : 10 <u>10</u> DPPS <u>3</u> : 20 <u>20</u> PPS <u>2</u>										
1. Enter the telephone number using the numeric keys. Up to 20 digits can be entered. To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.         3. To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is corr Setting the type of telephone line         1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 0       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys.         Description       Setting range         Number of fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission       1. Change the setting using the numeric keys to select if remote diagnostic transmission is to be enat         If you set this to 0, the unit will start										
Up to 20 digits can be entered.         To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.         3. To return to the screen for selecting an item, press the stop/clear key.         The item-selection screen does not reappear until registration or deletion processing is corresting the type of telephone line         1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys. <ul> <li>Description</li> <li>Setting range</li> <li>Number of fax/telephone rings</li> <li>0 to 15</li> <li>If you set this to 0, the unit will start fax reception without any ringing.</li> </ul> 2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the										
To correct the entered telephone number or to delete the stored telephone number, reset by stop/clear key.         2. Press the start key.         3. To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is correct time-selection screen does not reappear until registration or deletion processing is correcting the type of telephone line         1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 0       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys.         Description       Setting range         Number of fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.										
<ul> <li>2. Press the start key.</li> <li>3. To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is corr Setting the type of telephone line</li> <li>1. Change the setting using the numeric keys.</li> <li>Display Description <ol> <li>1: DTMF</li> <li>2: 10</li> <li>10 PPS</li> <li>3: 20</li> <li>20 PPS</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the number of rings in the fax/telephone auto select mode</li> <li>Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.</li> <li>1. Change the setting using the numeric keys.</li> </ul> Description Setting range Number of fax/telephone rings <ul> <li>0 to 15</li> <li>If you set this to 0, the unit will start fax reception without any ringing.</li> </ul> 2. Press the start key. The value is set. <ul> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> </ul> Setting remote diagnostic transmission 1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled. 2: OFF <ul> <li>Remote diagnostic transmission is enabled.</li> <li>2: OFF</li> <li>Remote diagnostic transmission is disabled.</li> </ul> 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. Setting remote diagnostic transmission is disabled. 2: OFF <ul> <li>Remote diagnostic transmission is disabled.</li> <li>2: OFF</li> <li>Remote diagnostic transmission is disabled.</li> </ul> 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. 3. To return to the screen for selecting an item, press the stop/clear key. 3. To	by pressing th									
<ul> <li>3. To return to the screen for selecting an item, press the stop/clear key. The item-selection screen does not reappear until registration or deletion processing is corresting the type of telephone line</li> <li>1. Change the setting using the numeric keys.</li> <li>Display Description <ol> <li>DTMF</li> <li>DTMF</li> <li>DTMF</li> <li>DTMF</li> <li>2: 10</li> <li>10 PPS</li> <li>2: 0</li> <li>20 PPS</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the number of rings in the fax/telephone auto select mode</li> <li>Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.</li> <li>1. Change the setting using the numeric keys.</li> </ul> <b>Description</b> <ul> <li>Description</li> <li>Setting range</li> <li>Number of fax/telephone rings</li> <li>0 to 15</li> </ul> If you set this to 0, the unit will start fax reception without any ringing.  2. Press the start key. The value is set. <li>3. To return to the screen for selecting an item, press the stop/clear key.   Setting remote diagnostic transmission   1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.  2: OFF   Remote diagnostic transmission is disabled.   2: OFF   Remote diagnostic transmission is disabled.   2: OFF   Remote diagnostic transmission is disabled.   2: OFF   Remote diagnostic transmission is disabled.  2: OFF   Remote diagnostic transmission is disabled.   2: OFF   Characteria or selecting an item, press the stop/clear key.   Display   Description   1: ON   Remote diagnostic transmission is disabled.   2: OFF   2: OFF   Number of present of present diagnostic transmission is disabled.   2: OFF <!--</td--><td></td></li>										
The item-selection screen does not reappear until registration or deletion processing is corresting the type of telephone line         Setting the type of telephone line         1.       Change the setting using the numeric keys.         Display       Description         1:       DTMF       DTMF         2:       10       10 PPS         3:       20       20 PPS         2:       Press the start key. The value is set.         3.       To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1.       Change the setting using the numeric keys.         Image: the start key. The value is set.       1.         1.       Change the setting using the numeric keys.         Image: the start key. The value is set.       1.         2.       Press the start key. The value is set.         3.       To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1.       Setting remote diagnostic transmission         2.       Press the start key. The value is set										
Setting the type of telephone line         1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys.         Description       Setting range         Number of fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         1: ON       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2: OFF       Remote diagnostic transmission is disabled.         2: OFF       Remote diagnostic transmission is disabled. <t< td=""><td>mpleted</td></t<>	mpleted									
1. Change the setting using the numeric keys.         Display       Description         1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys.         Description       Setting range         Number of fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         1: ON       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2: OFF       Remote diagnostic transmission is disabled.         2: OFF       Remote diagnostic transmission is disabled.         3: To return to the screen for selecting an item, press the stop/cle	inplotou.									
1: DTMF       DTMF         2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys. <b>Description</b> Setting range         Number of fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         2: OFF       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.										
2: 10       10 PPS         3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys. <u>Description             Setting range             Number of fax/telephone rings             0 to 15             If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         1: ON          2: OFF       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2: OFF       Remote diagnostic transmission is disabled.         2: Press the start key. The value is set.           3. To return to the screen for selecting an item, press the stop/clear key.   </u>										
3: 20       20 PPS         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys. <ul> <li>Description</li> <li>Setting range</li> <li>Number of fax/telephone rings</li> <li>0 to 15</li> </ul> If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         2: OFF       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       .         3. To return to the screen for selecting an item, press the stop/clear key.										
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the number of rings in the fax/telephone auto select mode Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.</li> <li>Change the setting using the numeric keys.         <ul> <li>Description</li> <li>Setting range</li> <li>Number of fax/telephone rings</li> <li>0 to 15</li> </ul> </li> <li>If you set this to 0, the unit will start fax reception without any ringing.</li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting remote diagnostic transmission         <ul> <li>Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.</li> <li>ON</li> <li>Remote diagnostic transmission is enabled.</li> <li>OFF</li> <li>Remote diagnostic transmission is disabled.</li> </ul> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>										
<ul> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the number of rings in the fax/telephone auto select mode Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.</li> <li>1. Change the setting using the numeric keys.</li> <li> Description Setting range Number of fax/telephone rings 0 to 15 If you set this to 0, the unit will start fax reception without any ringing. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. Setting remote diagnostic transmission 1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled. 2. OFF Remote diagnostic transmission is enabled. 2. OFF Remote diagnostic transmission is disabled. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. Setting remote diagnostic transmission 3. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled. 2. OFF Remote diagnostic transmission is enabled. 2. OFF Remote diagnostic transmission is disabled. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.</li></ul>										
Setting the number of rings in the fax/telephone auto select mode         Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys. <u>Description</u> <u>Setting range</u> <u>Number of fax/telephone rings</u> 0 to 15           If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.           Setting remote diagnostic transmission          1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         2. OFF         Remote diagnostic transmission is enabled.         2. OFF         Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.										
Use this if the user wishes to adjust the number of rings that occur before the unit switches into mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys. <ul> <li>Description</li> <li>Setting range</li> <li>Number of fax/telephone rings</li> <li>0 to 15</li> </ul> If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         2: OFF       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.										
mode when fax/telephone auto-select is enabled.         1. Change the setting using the numeric keys.         Description       Setting range         Number of fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         2: OFF       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.	to fax receivi									
<ol> <li>Change the setting using the numeric keys.         <ul> <li>Description</li> <li>Setting range</li> <li>Number of fax/telephone rings</li> <li>0 to 15</li> </ul> </li> <li>If you set this to 0, the unit will start fax reception without any ringing.</li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting remote diagnostic transmission         <ul> <li>Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.</li> <li>OFF</li> <li>Remote diagnostic transmission is enabled.</li> <li>OFF</li> <li>Remote diagnostic transmission is disabled.</li> </ul> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>										
Number of fax/telephone rings       0 to 15         If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enable         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enable         2. OFF       Remote diagnostic transmission is enabled.         2. OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.										
If you set this to 0, the unit will start fax reception without any ringing.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.         Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         Display       Description         1: ON       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.										
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting remote diagnostic transmission         <ol> <li>Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.</li> <li>Display Description                 <ol> <li>OFF</li></ol></li></ol></li></ol>										
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting remote diagnostic transmission         <ol> <li>Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.</li> <li>Display Description                 <ol> <li>OFF</li></ol></li></ol></li></ol>										
Setting remote diagnostic transmission         1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.         Display       Description         1: ON       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.										
Display       Description         1: ON       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.										
DisplayDescription1: ON 2: OFFRemote diagnostic transmission is enabled. Remote diagnostic transmission is disabled.2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.										
1: ON       Remote diagnostic transmission is enabled.         2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.       3. To return to the screen for selecting an item, press the stop/clear key.	abled.									
2: OFF       Remote diagnostic transmission is disabled.         2. Press the start key. The value is set.         3. To return to the screen for selecting an item, press the stop/clear key.										
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>										
3. To return to the screen for selecting an item, press the stop/clear key.										
<b>Completion</b> Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenar	anco item No									
displayed.	ance item NO.									

			Description							
U604	Clea	aring data								
	Description									
	Initializes data related to the fax transmission such as transmission history and IDs.									
	Purpose									
	Used to clear the transmission history or if an ID has been forgotten. Method									
	1. Press the start key. The screen for selecting an item is displayed.									
	2. Press the appropriate item.									
	Initialization processing starts. When processing is finished, the screen displays "COM									
		Display	Description							
		COMM. REC	Clears the activity report, error list, action list, transmission history							
			of each department as listed on the department control report,							
			transmission history for displaying the transmission results, document number, timer program information, protocol list, and							
			other transmission history such as image data, excluding items							
			regarding the machine variation adjustment.							
		MANAGE PW F-CODE ID	Initializes the management password. Initializes the F-code confidential box ID.							
		F-CODE ID	Initializes the F-code confidential box ID.							
		ENCRPT ID	Initializes the encription box ID.							
		<b>—</b>								
			screen for selecting an item, press the stop/clear key.							
		npletion as the stop/clear	key at the screen for selecting an item. The screen for selecting a maintenance item No. i							
		layed.								
U605	Sett	Setting the system (operational)								
U605										
	Des	cription	(operational)							
		cription	x transmission regarding operation.							
	Mak Star	cription tes settings for fa	x transmission regarding operation.							
	Mak Star 1.	c <b>ription</b> tes settings for fa rt Press the start k	x transmission regarding operation. ey. The screen for selecting an item is displayed.							
	Mak <b>Star</b> 1. 2.	cription kes settings for fa rt Press the start ke Press the approp	x transmission regarding operation. ey. The screen for selecting an item is displayed.							
	Mak <b>Star</b> 1. 2.	cription kes settings for fa rt Press the start ke Press the approp The screen for th	x transmission regarding operation. ey. The screen for selecting an item is displayed. oriate item. ne selected item appears.							
	Mak <b>Star</b> 1. 2.	cription kes settings for fa rt Press the start k Press the approp The screen for th Display	x transmission regarding operation. ey. The screen for selecting an item is displayed. oriate item. he selected item appears. Description							
	Mak <b>Star</b> 1. 2.	cription kes settings for fa rt Press the start ke Press the approp The screen for th	x transmission regarding operation. ey. The screen for selecting an item is displayed. priate item. he selected item appears. Description Sets how to proceed if memory becomes full							
	Mak <b>Star</b> 1. 2.	cription kes settings for fa rt Press the start k Press the approp The screen for th Display	x transmission regarding operation. ey. The screen for selecting an item is displayed. oriate item. he selected item appears. Description							
	Mak <b>Star</b> 1. 2.	cription kes settings for fa rt Press the start ke Press the approp The screen for th <b>Display</b> MEM. FULL	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction							
	Mak <b>Star</b> 1. 2.	Acription Art Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed.							
	Mak <b>Star</b> 1. 2.	Acription Acri Settings for fart Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report.							
	Mak <b>Star</b> 1. 2.	Acription Acription Acription Press the start ke Press the appropriate The screen for the Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format.							
	Mak <b>Star</b> 1. 2.	Acription Acri Settings for fart Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report.							
	Mak <b>Star</b> 1. 2.	Acription tes settings for fa rt Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON)	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. he selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching.							
	Mak <b>Star</b> 1. 2.	Acription tes settings for fa rt Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE)	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching.							
	Mak Star 1. 2. Sett	Acription tes settings for fart Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc	x transmission regarding operation. ey. The screen for selecting an item is displayed. priate item. ne selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. seed if memory becomes full during memory transmission							
	Mak Star 1. 2. Sett Use	Acription tes settings for fart Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. Exeed if memory becomes full during memory transmission there to send only stored data or to display an error indication and cancel transmission							
	Mak Star 1. 2. Sett Use men	Acription tes settings for fart Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc d to select wheth nory becomes fu	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. ne selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. Exeed if memory becomes full during memory transmission ther to send only stored data or to display an error indication and cancel transmission Il during memory transmission.							
	Mak Star 1. 2. Sett Use men	Acription Acription Acription Acription Acription Acription Acription Acription Acription Acrient Acrient ACR ACCODE MONITOR TIME (ONE) TIME (CON) RESOLUT ACCON	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets the error report display format. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. ereed if memory becomes full during memory transmission mer to send only stored data or to display an error indication and cancel transmission Il during memory transmission. g the numeric keys to change the setting.							
	Mak Star 1. 2. Sett Use men	cription tes settings for fart Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc d to select wheth nory becomes fu Enter 1 or 2 usin Display	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears.							
	Mak Star 1. 2. Sett Use men	Acription Acription Acription Acription Acription Acription Acription Acription Acription Acrient Acrient ACR ACCODE MONITOR TIME (ONE) TIME (CON) RESOLUT ACCON	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears.							
	Mak Star 1. 2. Sett Use men	Acription tes settings for fart Press the start ke Press the approp The screen for th Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to proc d to select wheth nory becomes fu Enter 1 or 2 usin Display 1: CONT	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears.							
	Mak Star 1. 2. Sett Use men 1.	ACTION ACTION	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears. Description Sets how to proceed if memory becomes full during memory transmission. Sets an alarm for when reception is completed. Selects if auto reduction in the auxiliary direction is to be performed. Sets for the addition of an image to the report. Sets the error report display format. Sets the line-monitoring period. Sets the one-shot detection time for remote switching. Sets the continuous detection time for remote switching. Sets the initial condition of fax image scanning quality. Sete of memory becomes full during memory transmission her to send only stored data or to display an error indication and cancel transmission Il during memory transmission. g the numeric keys to change the setting. Description Whether to continue memory transmission or to clear the memory can be selected by the user. Memory is forcibly cleared.							
	Mak Star 1. 2. Sett Use men 1.	Acription tes settings for fart Press the start ke Press the appropriate The screen for the Display MEM. FULL FIN. ALARM AUTO REDU ADD IMAGE ERR. CODE MONITOR TIME (ONE) TIME (CON) RESOLUT ting how to prood d to select wheth nory becomes fu Enter 1 or 2 usin Display 1: CONT 2: STOP Press the start ke	x transmission regarding operation. ey. The screen for selecting an item is displayed. briate item. the selected item appears.							

Maintenance item No.			De	scription
U605	Sett	ting an alarm fo	r when reception is complete	ed
(cont.)			g the numeric keys to change t	
		Display	Descriptio	on
		1: ON	An alarm rings.	
		2: OFF	An alarm does not ring.	
			ey. The value is set. screen for selecting an item, pro	ess the stop/clear key.
	Sele Sets	ecting if auto re	duction in the auxiliary direc	
			g the numeric keys to change t	the setting.
		Display	Descriptio	n
		1: ON	Auto reduction is performed it	f the received
		2: OFF	document is longer than the f Auto reduction is not perform	ax paper.
			ey. The value is set. screen for selecting an item, pro	ess the ston/clear key
			of an image to the report	
			s to be added to the transmissi	on report.
	1.	Enter 1 or 2 usin	g the numeric keys to change t	the setting.
		Display	Descriptio	n
		1: ON 2: OFF	Image added. Image not added.	
			ey. The value is set.	
			creen for selecting an item, pro	ess the stop/clear key.
	Sele	ects the format of	port display format the transmission report when ng using the numeric keys.	a transmission error occurs.
		Display	Descriptio	n
		1: WORDS 2: CODE 3: MIX	Records an error message (I Records a six-digit error code Records either an error mess	
	2		ey. The value is set.	
	3.	To return to the s	creen for selecting an item, pre	ess the stop/clear key.
	Sets whe	ther the transmis		a transmission from the start to the end, it can be checked
		Display	Description	
			Until transmission is completed. After dialing is completed until reco	eption of a DIS signal.
			ey. The value is set. screen for selecting an item, pro	ess the stop/clear key.
			ot detection time for remote s	
	Sets disp	s the detection ti layed, but the se	me when one-shot detection is tting made is ineffective.)	s selected for remote switching. (This setting item will be
	1.	Change the setti	ng using the numeric keys.	
			Description	Setting range
		One-shot detec	tion time for remote switching	0 to 255 (× 5 : ms)
			ey. The value is set. creen for selecting an item, pro	ess the stop/clear key.
			·	

em No.			Des	cription
J605 cont.)	Sets disp	s the detection tim layed, but the sett	us detection time for remote e when continuous detection is ing made is ineffective.) g using the numeric keys.	switching s selected for remote switching. (This setting item will be
			Description	Setting range
			tion time for remote switching	0 to 255 (× 5 : ms)
	2	Press the start ke	<b>.</b>	
			reen for selecting an item, pres	ss the stop/clear key.
	Set	to the resolution th	ndition of fax image scannin nat is most frequently used by g using the numeric keys.	
		Display	Description	
		1: S 2: F 3: SF 4: UF	Standard Fine Super fine Ultra fine	
			y. The value is set. reen for selecting an item, pres	ss the stop/clear key.
	Pres	<b>npletion</b> ss the stop/clear ke layed.	ey at the screen for selecting a	n item. The screen for selecting a maintenance item No. is
J606		•	operation unit and display)	
	Des	cription		
		-	transmission regarding the op	eration unit and display.
	Sta	-	. The severe few colorities on it	
			y. The screen for selecting an it odd is a screen for selecting an it odd is not provide LED error.	rem is displayed. In indicators, this setting has no affect on actual operation
		Display	Descriptio	
		ALARM LED OF DATE PATTERN RESO. LOCK DENS. LOCK	I Sets the date format. Sets if the image scanning Sets if the scanning densit	
		REPORT SKIP	and one-touch key number Sets used port entry in the	
		PORT		
			as under which an error indic the numeric keys to change th	
			Descriptio	
		Display	Descriptio	on
		1: RESET	An error indicator turns off reset key is pressed.	only when the
			An error indicator turns off	only when the when any key is
		1: RESET 2: COMM Press the start ke	An error indicator turns off reset key is pressed. An error indicator turns off pressed, an original is inse transmission is started. y. The value is set.	only when the when any key is rted or the next
		1: RESET 2: COMM Press the start ke	An error indicator turns off reset key is pressed. An error indicator turns off pressed, an original is inse transmission is started.	only when the when any key is rted or the next
		1: RESET 2: COMM Press the start ke	An error indicator turns off reset key is pressed. An error indicator turns off pressed, an original is inse transmission is started. y. The value is set.	only when the when any key is rted or the next
		1: RESET 2: COMM Press the start ke	An error indicator turns off reset key is pressed. An error indicator turns off pressed, an original is inse transmission is started. y. The value is set.	only when the when any key is rted or the next
		1: RESET 2: COMM Press the start ke	An error indicator turns off reset key is pressed. An error indicator turns off pressed, an original is inse transmission is started. y. The value is set.	only when the when any key is rted or the next
		1: RESET 2: COMM Press the start ke	An error indicator turns off reset key is pressed. An error indicator turns off pressed, an original is inse transmission is started. y. The value is set.	only when the when any key is rted or the next

Item No.     Description       U606     Setting the date format       (cont.)     Selects the date format on the respective reports and sender's in       1. Change the setting using the numeric keys.       Display     Order       1: YMD     Year/month/day       2: MDY     Marth (day/usar)	Description								
Display     Order       1: YMD     Year/month/day	Setting the date format								
Display         Order           1: YMD         Year/month/day	nformation record.								
1: YMD Year/month/day									
2: MDY Month/day/year									
3: DMY Day/month/year									
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/</li> </ol>	clear key								
Setting if the image scanning quality in fax mode is initialized Sets if the resolution is to be initialized when fax operation is con 1. Enter 1 or 2 using the numeric keys to change the setting.	ed								
Display Description									
1: ON Resolution is initialized. 2: OFF Resolution is not initialized.									
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/or</li> </ol>	clear key.								
Setting if the scanning density in fax mode is initialized									
Sets if the scanning density is initialized when fax operation is co	omplete.								
1. Enter 1 or 2 using the numeric keys to change the setting.									
Display Description									
1: ON Density is initialized.									
2: OFF Density is not initialized.									
Sets whether to skip unregistered abbreviated numbers and one 1. Enter 1 or 2 using the numeric keys to change the setting.	e-touch key numbers on the list.								
Display Description									
1: ONUnregistered numbers are skipped.2: OFFUnregistered numbers are not skipped	i.								
	clear key.								
<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/</li> </ol>									
<ol> <li>To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This setting</li> </ol>	ng need not be changed particularly.)								
<ol> <li>To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ol>	ng need not be changed particularly.)								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display</li> <li>Description</li> </ul>	ng need not be changed particularly.)								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> </ul>	ng need not be changed particularly.)								
3. To return to the screen for selecting an item, press the stop/         Setting port entry in the activity report         Sets whether to enter used port in the activity report. (This setting.)         1. Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       Port is entered.         2: OFF       Port is not entered.	ng need not be changed particularly.)								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description         <ol> <li>1: ON</li> <li>2: OFF</li> <li>Port is entered.</li> <li>2. Press the start key. The value is set.</li> </ol> </li> </ul>									
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description         <ol> <li>1: ON</li> <li>2: OFF</li> <li>Port is entered.</li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> </ol> </li> </ul>									
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>OFF</li> <li>Port is entered.</li> <li>OFF</li> <li>Port is not entered.</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The set</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>OFF</li> <li>Port is entered.</li> <li>Port is not entered.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display</li> <li>Description</li> <li>1: ON</li> <li>2: OFF</li> <li>Port is entered.</li> <li>2: OFF</li> <li>Port is not entered.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The set</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>OFF</li> <li>Port is entered.</li> <li>OFF</li> <li>Port is not entered.</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The set</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>OFF</li> <li>Port is entered.</li> <li>OFF</li> <li>Port is not entered.</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The set</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>OFF</li> <li>Port is entered.</li> <li>OFF</li> <li>Port is not entered.</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The set</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>OFF</li> <li>Port is entered.</li> <li>OFF</li> <li>Port is not entered.</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The set</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>OFF</li> <li>Port is entered.</li> <li>OFF</li> <li>Port is not entered.</li> </ol> </li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The set</li> </ul>	clear key.								
<ul> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Setting port entry in the activity report</li> <li>Sets whether to enter used port in the activity report. (This settin</li> <li>1. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display</li> <li>Description</li> <li>1: ON</li> <li>Port is entered.</li> <li>2: OFF</li> <li>Port is not entered.</li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/</li> <li>Completion</li> <li>Press the stop/clear key at the screen for selecting an item. The screen for selecting an item.</li> </ul>	clear key.								

nance					Dese	ription							
No.	Cat	ting the evetor		munication 1)									
07		ting the system	iii (comi	munication 1)									
	Description Makes settings for fax transmission regarding the communication.												
	Start												
		-	key. The	e screen for selecti	na an ite	m is displayed.							
		Press the appr											
				ected item appears.									
		Display	play Description										
		INTERVAL		Sets the auto redi	ialing int	erval.							
		TIMES		Sets the number of									
		TX SPEED		Sets the commun									
		RX SPEED		Sets the reception									
		REMOTE CALL INT		Sets the mode for Sets the transmiss		-							
		DC LOOP		Sets the loop curr									
		DIS 4BYTE		Sets the DIS signa			9.						
	<b>.</b>			-			]						
		ting the auto r	-		rohleme	fax transmission	is not possible due to too short redia						
							long redial interval.						
				ng the numeric key									
			-	ription		Setting range	]						
		Redialing inte	erval			to 9 (min.)							
	2.	Press the start	key. The	e value is set.									
					em, pres	s the stop/clear ke	2γ.						
	Set	ting the numb	or of tin		3. To return to the screen for selecting an item, press the stop/clear key.								
	Setting the number of times of auto redialing 1. Change the setting using the numeric keys.												
	1.	Change the se											
	1.	Change the se	tting usi			Setting range	]						
	1.	Change the se	tting usi <b>Desc</b>	ng the numeric key	/S.	Setting range							
		Number of rec	tting usi <b>Desc</b> dialing	ng the numeric key r <b>iption</b>	/S.								
		Number of rec	tting usi <b>Desc</b> dialing no redia	ng the numeric key ription aling is performed.	/S.								
	2.	Number of red When set to 0, Press the start	tting usi Desc dialing no redia key. The	ng the numeric key ription aling is performed.	/S. (	to 9	] Py.						
	2. 3.	Number of red When set to 0, Press the start To return to the	tting usi Desc dialing no redia key. The e screen	ng the numeric key ription aling is performed. e value is set.	/s. (	to 9	] Py.						
	2. 3. <b>Set</b>	Number of red When set to 0, Press the start To return to the ting the comm s the initial com	tting usi Desc dialing no redia key. The e screen unication	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when sta	/s. ( em, pres	to 9 s the stop/clear ke							
	2. 3. <b>Set</b> V.34	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for	tting usi Desc dialing no redia key. The screen nunication r transm	ng the numeric key <b>ription</b> aling is performed. e value is set. for selecting an ite <b>on starting speed</b> ion speed when statission, regardless of	ys. em, pres arting tra of this se	to 9 s the stop/clear ke							
	2. 3. <b>Set</b> V.34	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se	tting usi Desc dialing no redia key. The screen nunication r transm	ng the numeric key <b>ription</b> aling is performed. e value is set. for selecting an ite <b>on starting speed</b> ion speed when statission, regardless of ng the numeric key	ys. em, pres arting tra of this se	to 9 s the stop/clear ke							
	2. 3. <b>Set</b> V.34	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display	tting usi Desc dialing no redia key. The screen nunication r transm	ng the numeric key <b>ription</b> aling is performed. e value is set. for selecting an ite <b>on starting speed</b> ion speed when statission, regardless of	ys. em, pres arting tra of this se	to 9 s the stop/clear ke							
	2. 3. <b>Set</b> V.34	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144	tting usi Desc dialing no redia key. The e screen nunication r transm tting usi V.17, 1	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps	ys. em, pres arting tra of this se	to 9 s the stop/clear ke							
	2. 3. <b>Set</b> V.34	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96	tting usi Desc dialing no redia key. The e screen nunication r transm tting usi V.17, 1 V.17, 9	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when sta ission, regardless of ng the numeric key Description 4400 bps 600 bps	ys. em, pres arting tra of this se	to 9 s the stop/clear ke							
	2. 3. <b>Set</b> V.34	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48	tting usi Desc dialing no redia key. The escreen nunication munication transm tting usi V.17, 1 V.17, 9 V.27ter	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when sta ission, regardless of ng the numeric key Description 4400 bps 600 bps r, 4800 bps	ys. em, pres arting tra of this se	to 9 s the stop/clear ke							
	2. 3. Sett V.34 1.	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24	tting usi Desc dialing no redia key. The e screen nunication r transmi tting usi V.17, 1 V.17, 9 V.27ter V.27ter	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when sta ission, regardless of ng the numeric key Description 4400 bps 600 bps 5, 4800 bps 5, 2400 bps	ys. em, pres arting tra of this se	to 9 s the stop/clear ke							
	2. 3. Sett V.34 1.	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start	tting usi Desc dialing no redia key. The screen nunication r transmitting usi V.17, 1 V.17, 9 V.27ter V.27ter key. The	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when sta ission, regardless of ng the numeric key Description 4400 bps 600 bps 5, 4800 bps 5, 2400 bps e value is set.	ys. em, pres arting tra of this se ys.	to 9 s the stop/clear keensmission. When otting.	the destination unit has V.34 capability						
	2. 3. Sett V.34 1. 2. 3.	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the	tting usi Desc dialing no redia key. The escreen nunication munication transm tting usi V.17, 1 V.17, 9 V.27ter V.27ter v.27ter key. The escreen	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 600 bps 5, 2400 bps e value is set. for selecting an ite	ys. em, pres arting tra of this se ys.	to 9 s the stop/clear keensmission. When otting.	the destination unit has V.34 capability						
	2. 3. Sett V.34 1. 2. 3. Sett	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the recept	tting usi Desc dialing no redia key. The e screen nunication r transm tting usi V.17, 1 V.17, 1 V.17, 9 V.27ter V.27ter key. The e screen tion spe	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 4400 bps 600 bps 4400 bps 600 bps 4400 bps 600 bps 4400 bps 600 bps 4400 bps 600 bps 5 2400 bps 6 value is set. for selecting an ite 2 add	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be stop to be	the destination unit has V.34 capability						
	2. 3. Sett V.34 1. 2. 3. Sett Sets	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the reception	tting usi Desc dialing no redia key. The escreen nunication munication transm tting usi V.17, 1 V.17, 9 V.27ter V.27ter V.27ter key. The escreen tion spe speed th	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 5, 4800 bps 5, 2400 bps e value is set. for selecting an ite ed nat the sender is inf	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be be stop to	the destination unit has V.34 capabilit						
	2. 3. Sets V.34 1. 2. 3. Sets Sets has	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the reception V.34 capability.	tting usi Desc dialing no redia key. The escreen nunication munication v.27ter key. The escreen speed th , V.34 is	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 600 bps 5, 4800 bps 6, 2400 bps e value is set. for selecting an ite sed nat the sender is inf selected, regardless	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be be stop to	the destination unit has V.34 capabilit						
	2. 3. Sets V.34 1. 2. 3. Sets Sets has	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the reception V.34 capability, Change the se	tting usi Desc dialing no redia key. The escreen nunication munication v.27ter key. The escreen speed th , V.34 is	ng the numeric key ription aling is performed. e value is set. for selecting an ite on starting speed ion speed when sta ission, regardless of ng the numeric key Description 4400 bps 600 bps , 4800 bps e value is set. for selecting an ite ed nat the sender is inf selected, regardless ng the numeric key	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be be stop to	the destination unit has V.34 capabilit						
	2. 3. Sets V.34 1. 2. 3. Sets Sets has	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the reception V.34 capability Change the se Display	tting usi Desc dialing no redia key. The screen nunication r transm tting usi V.17, 1 V.17, 1 V.17, 9 V.27ter V.27ter v.27ter the screen tion spe speed th , V.34 is tting usi	ng the numeric key pription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 4400 bps 600 bps 4800 bps 600 bps 4800 bps 600 bps 4800 bps 600 bps 60	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be be stop to	the destination unit has V.34 capabilit						
	2. 3. Sets V.34 1. 2. 3. Sets Sets has	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the reception V.34 capability, Change the se Display 1: 144	tting usi Desc dialing no redia key. The screen nunication transm tting usi V.17, 1 V.17, 1 V.17, 9 V.27ter v.27ter key. The screen tion spe speed th v.34 is tting usi V.17, V	ng the numeric key pription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 4400 bps 600 bps 4800 bps 500 cm 600	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be be stop to	the destination unit has V.34 capabilit						
	2. 3. Sets V.34 1. 2. 3. Sets Sets has	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the reception V.34 capability. Change the se Display 1: 144 2: 96	tting usi Desc dialing no redia key. The screen nunication r transm tting usi V.17, 1 V.17, 1 V.17, 9 V.27ter V.27ter v.27ter the screen tion spe speed th , V.34 is tting usi	ng the numeric key pription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 4400 bps 600 bps 4300 bps 400 bps 4	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be be stop to	the destination unit has V.34 capability						
	2. 3. Sets V.34 1. 2. 3. Sets Sets has	Number of red When set to 0, Press the start To return to the ting the comm s the initial com 4 is selected for Change the se Display 1: 144 2: 96 3: 48 4: 24 Press the start To return to the ting the reception V.34 capability, Change the se Display 1: 144	tting usi Desc dialing no redia key. The e screen nunication r transm tting usi V.17, 1 V.17, 1 V.17, 9 V.27ter key. The e screen tion spe speed th y.V.34 is tting usi V.17, V V.29, V V.27ter	ng the numeric key pription aling is performed. e value is set. for selecting an ite on starting speed ion speed when statission, regardless of ng the numeric key Description 4400 bps 600 bps 4400 bps 600 bps 4300 bps 400 bps 4	em, pres arting tra of this se /s.	to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to 9 s the stop/clear keepstop to be stop/clear keepstop to be stop/clear keepstop to be be stop to	the destination unit has V.34 capability						

Maintenance item No.	Description									
U607 (cont.)	Sets tele	phone connect	tection me ed to the	ethod for remote switching. machine.	. Be sure to change the setting according to the type of					
	1.			umeric keys to change the setting. Description						
			ıy	•						
		1: ONE 2: CONT		One-shot detection Continuous detection						
		Press the start To return to the	-	value is set. for selecting an item, press	s the stop/clear key.					
	Sets tran sucl	smission was n as broadcast	n time re complete ing and p	quired for connection to	the line for the next transmission after the previou ransmission problems occur during multi-transmission erved transmission.					
		Display		Description						
		1: 10 2: 30 3: 70 4: 120	10 s 30 s 70 s 120 s							
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the loop current detection before dialing</li> <li>Sets if the loop current detection is performed before dialing.</li> </ol>									
	1.		÷	numeric keys to change the setting.						
		<b>Displa</b> 1: ON 2: OFF	iy	Performs loop current de	tection before dialing. urrent detection before dialing.					
		Press the start								
	Sets	t <b>ing the DIS si</b> if bit 33 and la Enter 1 or 2 us	i <b>gnal to 4</b> ater bits o	sent.						
		Displa	iy	Des	scription					
		1: ON 2: OFF			e DIS/DTC signal are not sent. e DIS/DTC signal are sent.					
	3. <b>Cor</b> Pres	npletion	e screen f	or selecting an item, press	s the stop/clear key. item. The screen for selecting a maintenance item No. i					

Maintenance item No.		Description
U608	Setting transmissio	n
	<b>Description</b> Makes settings regar	ding fax transmission.
	2. Press the approp	
		e selected item appears.
	Display	Description
	ERROR DIS-2 RES RTN CHECK TX ECHO	Sets the method to process errors. Sets the number of times of DIS signal reception. Sets the reference for RTN signal output. Sets the waiting period to prevent echo problems at the sender.
	RX ECHO ECM TX ECM RX	Sets the waiting period to prevent echo problems at the receiver. Sets ECM transmission. Sets ECM reception.
	TCF CHECK CED FREQ.	Sets the criteria for receiving a TCF signal 1. Sets the frequency of the CED signal.
	an alarm sounds and	to process errors on is to be treated as an error if an RTN or PIN signal is received. If it is treated as an error, a transmission report is output. g the numeric keys to change the setting.
	Display	Description
	1: OK 2: ERROR	Transmission is not treated as an error. Transmission is treated as an error.
	Sets the number of til transmission errors a	of times of DIS signal reception mes to receive the DIS signal to once or twice. Used as one of the correction measures for and other problems. g the numeric keys to change the setting.
	Display	Description
	1: ONCE 2: TWICE	Responds to the first signal. Responds to the second signal.
		creen for selecting an item, press the stop/clear key.
	Sets the error line rat quality of the line, the	e for RTN signal output e as the reference for RTN signal output. If transmission errors occur frequently due to the ey can be reduced by lowering this setting. Ing using the numeric keys.
	Display	Description
	1:5 2:10 3:15 4:20	Error line rate of 5% Error line rate of 10% Error line rate of 15% Error line rate of 20%
	<ol> <li>Press the start ke</li> <li>To return to the s</li> </ol>	ey. The value is set. creen for selecting an item, press the stop/clear key.

enance No.			Des	scription						
08 nt.)			period to prevent echo proble pre a DCS signal is sent after a I		ed. Used when problems occur due to					
	<ul><li>echoes at the sender.</li><li>1. Enter 1 or 2 using the numeric keys to change the setting.</li></ul>									
	1.									
		Display	Description		-					
		1: 500 2: 300	Sends a DCS 500 ms after re Sends a DCS 300 ms after re							
			key. The value is set. screen for selecting an item, pre	ess the stop/clear ke	ev.					
	Sets	s the period befo ur due to echoes	s at the receiver.	sent after a CED sig	r gnal is received. Used when problem					
	1.	Enter 1 or 2 usir	ng the numeric keys to change the	he setting.						
		Display	Descri	ption						
		1: 500 2: 75	Sends an NSF, CSI or DIS 50 Sends an NSF, CSI or DIS 75							
			key. The value is set. screen for selecting an item, pre	ess the stop/clear ke	γ <b>γ</b> .					
	Set	ting ECM trans	mission		-					
			nen reduction of transmission co		rity than image quality.					
	1.		ng the numeric keys to change the <b>Description</b>		1					
		Display	ECM transmission is enabled		-					
			ECM transmission is enabled ECM transmission is disabled key. The value is set. screen for selecting an item, pre	ł.	y.					
	3. <b>Set</b> t To b	2: OFF Press the start I To return to the ting ECM recep be set to OFF wh	ECM transmission is disabled key. The value is set. screen for selecting an item, pre tion nen reduction of transmission co	t. ess the stop/clear ke sts is of higher prior						
	3. <b>Set</b> t To b	2: OFF Press the start I To return to the ting ECM recep be set to OFF wh	ECM transmission is disabled key. The value is set. screen for selecting an item, pre- tion nen reduction of transmission co ng the numeric keys to change th	l. ess the stop/clear ke sts is of higher prior he setting.						
	3. <b>Set</b> t To b	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON	ECM transmission is disabled key. The value is set. screen for selecting an item, pre- tion nen reduction of transmission co- ng the numeric keys to change the Description ECM reception is enabled.	l. ess the stop/clear ke sts is of higher prior he setting.						
	3. Sett To b 1.	2: OFF Press the start F To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start F	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.	t. ess the stop/clear ke sts is of higher prior he setting. n	rity than image quality.					
	<ol> <li>3.</li> <li>Set</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set</li> <li>Set</li> <li>to e</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission	ECM transmission is disabled key. The value is set. screen for selecting an item, pre- tion nen reduction of transmission co- ng the numeric keys to change th Description ECM reception is enabled. ECM reception is disabled. key. The value is set. screen for selecting an item, pre- for receiving a TCF signal 1	d. ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when recei	rity than image quality.					
	<ol> <li>3.</li> <li>Set</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set</li> <li>Set</li> <li>to e</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission	ECM transmission is disabled key. The value is set. screen for selecting an item, pre- tion nen reduction of transmission co- ng the numeric keys to change th Description ECM reception is enabled. ECM reception is disabled. key. The value is set. screen for selecting an item, pre- for receiving a TCF signal 1 number of error bytes judged acco- n conditions if transmission error	d. ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when recei	rity than image quality.					
	<ol> <li>3.</li> <li>Set</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Set</li> <li>Set</li> <li>to e</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconnections if transmission error         ing using the numeric keys.	d. ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when recei rs occur.	rity than image quality.					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconnections if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measure					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					
	<ol> <li>3.</li> <li>Setti</li> <li>To b</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Setti</li> <li>to e</li> <li>1.</li> </ol>	2: OFF Press the start H To return to the ting ECM recep be set to OFF wh Enter 1 or 2 usin Display 1: ON 2: OFF Press the start H To return to the ting the criteria is the maximum r ase transmission Change the sett Number of allow Press the start H	ECM transmission is disabled         key. The value is set.         screen for selecting an item, pre-         tion         nen reduction of transmission cong the numeric keys to change the         Description         ECM reception is enabled.         ECM reception is disabled.         key. The value is set.         screen for selecting an item, pre-         for receiving a TCF signal 1         number of error bytes judged acconn conditions if transmission error         ing using the numeric keys.         Description         ed error bytes when detecting TCF         key. The value is set.	ess the stop/clear ke sts is of higher prior he setting. n ess the stop/clear ke ceptable when receir rs occur. Setting range 0 to 255	rity than image quality. } ey. ving a TCF signal. Used as a measur					

laintenance item No.				Descri	ption				
U608	Set	ting the freque	ency of the CED signal						
cont.)			÷	s one of th	ne measures to	improve transmission performance for			
		rnational comn		ongo tho f	a lanav				
	1. Enter 1 or 2 using the numeric keys to change the frequency.         Display       Frequency of the CED signal								
		Display		the CED	signai	-			
		1: 2100 2: 1100	2100 Hz 1100 Hz						
	2. Press the start key. The value is set.								
			e screen for selecting an ite	m, press t	he stop/clear ke	ЭУ.			
	Pre	<b>npletion</b> ss the stop/clea blayed.	ar key at the screen for selec	cting an ite	em. The screen	for selecting a maintenance item No. is			
U609	Set	ting communi	cation time						
	Des	cription	ime for fax transmission.						
		pose							
			prove transmission perform	ance for ir	ternational corr	imunications.			
	Sta								
		-	key. The screen for selectir	ng an item	is displayed.				
		Press the appr		0					
		The screen for	the selected item appears.						
		Display	Description						
		ТО	Sets the T0 time-out time.						
		T1	Sets the T1 time-out time.						
		T2	Sets the T2 time-out time.						
		Та	Sets the Ta time-out time.						
		Tb1	Sets the Tb1 time-out time						
		Tb2 Tc	Sets the Tb2 time-out time Sets the Tc time-out time.						
		Td	Sets the Td time-out time.						
	Sat				]				
	<ul> <li>Setting the T0 time-out time</li> <li>Sets the time before detecting a CED or DIS signal after a dialing signal is sent. Depending on the exchange, or when the auto select function is selected at the destination unit, a line can be of Change the setting to prevent this problem.</li> <li>1. Change the setting using the numeric keys.</li> </ul>								
			Description		etting range	7			
		T0 time-out ti	-		to 90 s	-			
			key. The value is set.						
			e screen for selecting an ite	in, press t	ne stop/clear Ke	έy.			
	Set	ting the T1 tim s the time bein ntenance item.		signal aft	er call receptio	on. No change is necessary for this			
			tting using the numeric key	'S.					
			Description		etting range	7			
		T1 time-out t	•		to 90 s	-			
			key. The value is set. e screen for selecting an ite	em. press t	he stop/clear ke	J ₽V.			
	0.			, p. 000 t		· ·			

Maintenance item No.	Description								
U609 (cont.)	<ul> <li>Setting the T2 time-out time</li> <li>The T2 time-out time decides the following.</li> <li>From CFR signal output to image data reception</li> <li>From image data reception to the next signal reception</li> <li>In ECM, from RNR signal detection to the next signal reception</li> <li>Change the setting using the numeric keys.</li> </ul>								
	Description Setting range Initial setting Change in value per step								
	T2 time-out time 1 to 255 69 100 ms								
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>								
	Setting the Ta time-out time In the fax/telephone auto select mode, sets the time to continue ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). A fax signal is received within the T time, or the fax mode is selected automatically when the time elapses. In fax/telephone auto select m change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys.	Ta s							
	Description Setting range Initial setting								
	Ta time-out time 1 to 255 s 30								
	Ring detection Ring detection Ring back tone send start Rings Start of fax reception								
	Tb2 Figure 1-3-1 Ta/Tb1/Tb2 time-out time								
	<ul> <li>Setting the Tb1 time-out time</li> <li>In the fax/telephone auto select mode, sets the time to start sending the ring back tone after receiving a car a fax machine (see figure 1-3-1). In fax/telephone auto select mode, change the setting when fax reception unsuccessful or a telephone fails to receive a call.</li> <li>1. Change the setting using the numeric keys.</li> </ul>								
	Description Setting range Initial setting Change in value per step								
	Tb1 time-out time         1 to 255         20         100 ms								
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>								
	Setting the Tb2 time-out time In the fax/telephone auto select mode, sets the time to start ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select methods are to be acting when fax receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select methods are to be acting when fax receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select methods are to be acting when fax receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select methods are to be acting when fax receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select methods are to be acting when fax receiving a call as a fax machine (see figure 1-3-1).								

change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Tb2 time-out time	1 to 255	80	100 ms

Press the start key. The value is set.
 To return to the screen for selecting an item, press the stop/clear key.

1-3-17

Maintenance	Description							
item No.								
U609 (cont.)	Setting the Tc time-out time In the TAD mode, set the time to check if there are any triggers for shifting to fax reception after a con telephone receives a call. Only the telephone function is available if shifting is not made within the set T In the TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive 1. Change the setting using the numeric keys.							
	Description Setting range Initial setting							
	Tc time-out time 1 to 255 s 60							
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>							
	Setting the Td time-out time Sets the length of the time required to determine silent status (fax), one of the triggers for Tc time ch TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a c not to set it too short; otherwise, the mode may be shifted to fax while the unit is being used as a te 1. Change the setting using the numeric keys.	all. Be sure						
	Description Setting range							
	Td time-out time 1 to 255 s							
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>							
	<b>Completion</b> Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance	item No. is						
	displayed.							

1 No.				De	escription				
510	Setting the modem output level								
	Description								
	Sets the modem output level.								
	Start								
				creen for selecting an	item is displayed.				
		Press the app The screen for		ed item appears.					
		Disp		Descr	iption				
			-	Sets the modem out	•	-			
		SGL LEVEL MODEM SGL OUTPUT ADJ		Adjusts the modem					
	Set	ting the mode	em output	level		_			
	To b	be set when in	stalling the	machine in order to a	dapt to the line char	acteristics.			
	1.	Change the s		the numeric keys.	1	-			
			Descri			_			
		Modem output level			0 to 15				
	2. Press the start key. The value is set.								
	3. To return to the screen for selecting an item, press the stop/clear key.								
	3.	To return to th	ne screen fo	r selecting an item, pr	ess the stop/clear k	ey.			
	Ad	justing the m	odem outp	out level	ess the stop/clear k	ey.			
	Adj No d	<b>justing the m</b> change is nec	odem outp essary from	<b>out level</b> In the factory default.	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s	odem outp essary from	<b>but level</b> the factory default. the numeric keys.	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting	odem outp essary from etting using	<b>out level</b> In the factory default.	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting 12	essary from etting using 1.0 dBm	out level the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting	essary from etting using 1.0 dBm 0.75 dBm	out level the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting 12 11	essary from etting using 1.0 dBm	out level the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting 12 11 10	essary from etting using 1.0 dBm 0.75 dBm 0.5 dBm	out level the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting 12 11 10 9	essary from etting using 1.0 dBm 0.75 dBm 0.5 dBm 0.25 dBm	out level the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting 12 11 10 9 8	essary from etting using 1.0 dBm 0.75 dBm 0.5 dBm 0.25 dBm 0 dBm	n the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting 12 11 10 9 8 7	1.0 dBm 0.75 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm	n the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No d	justing the m change is nec Change the s Setting 12 11 10 9 8 7 6	1.0 dBm 0.75 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm -0.25 dBm -0.25 dBm	n the factory default. the numeric keys. Output level	ess the stop/clear k	ey.			
	Adj No ( 1.	justing the m change is nec Change the s Setting 12 11 10 9 8 7 6 5 4 Press the star	1.0 dBm 0.75 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm -0.25 dBm -0.75 dBm -0.75 dBm -0.75 dBm -0.75 dBm -0.75 dBm -1.0 dBm	n the factory default. the numeric keys. Output level					
	Adj No ( 1.	justing the m change is nec Change the s Setting 12 11 10 9 8 7 6 5 4 Press the star	1.0 dBm 0.75 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm -0.25 dBm -0.75 dBm -0.75 dBm -0.75 dBm -0.75 dBm -0.75 dBm	n the factory default. the numeric keys. Output level					
	Adj No o 1.	justing the m change is nec Change the s Setting 12 11 10 9 8 7 6 5 4 Press the star	1.0 dBm 0.75 dBm 0.25 dBm 0.25 dBm 0.25 dBm 0.25 dBm -0.25 dBm -0.75 dBm -0.75 dBm -0.75 dBm -0.75 dBm -0.75 dBm	n the factory default. the numeric keys. Output level					

Maintenance item No.		Descr	iption						
U611	G3 cable equalizer								
	Description Sets the G3 cable equalizer.								
	Start								
		The screen for selecting an iter	n is displayed.						
	2. Press the appropria	ate item.							
	The screen for the	elected item appears.							
	Display	Descript	ion						
	REG. G3 TX EQF REG. G3 RX EQF								
	Perform the following a	nission cable equalizer djustment to make the equalize using the numeric keys.	r compatible with the line characteristics.						
	Display	Description							
	1:0	0 km							
	2: 18	1.8 km							
	3: 36	3.6 km							
	4: 72	7.2 km							
	2. Press the start key.	The value is set.							
	3. To return to the scr	een for selecting an item, press	the stop/clear key.						
	Setting the G3 reception								
			r compatible with the line characteristics.						
		using the numeric keys.							
	Display	Description							
	1:0	0 km							
	2:18	1.8 km							
	3: 36 4: 72	3.6 km 7.2 km							
	<ol> <li>Press the start key.</li> <li>To return to the scr</li> </ol>	een for selecting an item, press	the ston/clear key						
	Completion	een for selecting an item, press	the stop/clear key.						
		y at the screen for selecting an it	em. The screen for selecting a maintenance item No. is						

Maintenance item No.				Des	cription			
U612	Sett	ing the mode	m detectio	on level				
	Description Sets the modem detection level.							
		<b>pose</b> d to improve th	e transmis	sion performance wher	a low quality line is used.			
	Met Pres		. The curre	nt setting is displayed.				
	Setting 1. Change the setting using			the numeric keys.				
		Display		Description				
		1: 33 2: 38 3: 43 4: 47	-33 dBm -38 dBm -43 dBm -47 dBm					
	2	Press the start		alue is set				
		npletion	Key. The v	alue 13 Set.				
			ar key. The	screen for selecting a n	naintenance item No. is displa	yed.		
U613		ing the DTMF	-			, 		
		cription the DTMF out	tput level o	f a push-button dial tele	phone.			
	Pur	pose						
	Use	d if problems o	ccur when	sending a signal with a	push-button dial telephone.			
	Star	-	kov Tho s	creen for selecting an it	em is displayed			
		Press the appr			enn is displayed.			
				ed item appears.				
	Display		De	]				
		DTMF TX LE DTMF TX LE			requency group) output level. equency group) output level.			
	Sett					-		
	1.	Change the se	0 0	the numeric keys.				
			Descrip		Setting range			
				ncy group) output level				
	2.	Press the start	key. The v	DTMF output level is –8 alue is set. r selecting an item, pres				
	<b>Con</b> Pres	npletion			item. The screen for selecting	a maintenance item No. is		

			Description					
Adjusting the DTMF output level								
Des	Description							
Adjusts the DTMF output level of a push-button dial telephone.								
Pur	Purpose							
No	change is neo	essary from	n the factory default.					
Sta	rt							
			screen for selecting an item is displayed.					
	Press the app							
	r		ted item appears.					
	Disp	olay	Description					
	SGL LVL D	TMF (H)	Adjusts the DTMF (high-frequency group) output level.					
	SGL LVL D	TMF (L)	Adjusts the DTMF (low-frequency group) output level.					
Set	ting							
		ettina usina	g the numeric keys.					
	Setting		igh-/low-frequency group) output level					
	12	2.0 dBm	gir now inequency group, output iorei					
	12	1.5 dBm						
	10	1.0 dBm						
	9	0.5 dBm						
	8	0 dBm						
	7	–0.5 dBm	n					
	-	-1.0 dBm						
	6							
	5	–1.5 dBm	n					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th <b>npletion</b>	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n value is set. or selecting an item, press the stop/clear key.					
3. <b>Cor</b> Pre	5 4 Press the sta To return to th mpletion ss the stop/cle	-1.5 dBm -2.0 dBm rt key. The v ne screen fo	n n value is set. or selecting an item, press the stop/clear key.					

		Description							
Se	tting the NCU								
Description									
Makes setting regarding the network control unit (NCU).									
Purpose									
To be set when installing the facsimile kit.									
Start         1. Press the start key. The screen for selecting an item is displayed.									
	Press the appr								
	The screen for	the selected item appears.							
	Display	Description							
	EXCHANGE	Sets the connection to PBX/PSTN.							
	DIAL TONE	Sets PSTN dial tone detection.							
	BUSY TONE								
PBX SETTING     Setting for a PBX.       Setting the connection to PBX/PSTN									
		o be connected to either a PBX or public switched telephone network.							
		sing the numeric keys to change the setting.							
	Display	Description							
	1: PSTN 2: PBX	Connected to the public switched telephone network. Connected to a PBX.							
		t key. The value is set.							
3. Se Se sw	To return to the tting PSTN dia lects if the dial t itched telephone	e screen for selecting an item, press the stop/clear key. I tone detection sone is detected to check the telephone is off the hook when a fax is connected to a pu e network.							
3. Se Se sw	To return to the tting PSTN dia lects if the dial t itched telephone Enter 1 or 2 us	e screen for selecting an item, press the stop/clear key. I tone detection cone is detected to check the telephone is off the hook when a fax is connected to a pu e network. sing the numeric keys to change the setting.							
3. Se Se sw	To return to the tting PSTN dia lects if the dial t itched telephone Enter 1 or 2 us Display	e screen for selecting an item, press the stop/clear key. I tone detection Tone is detected to check the telephone is off the hook when a fax is connected to a pu e network. Sing the numeric keys to change the setting. Description							
3. Se Se sw	To return to the tting PSTN dia lects if the dial t itched telephone Enter 1 or 2 us	e screen for selecting an item, press the stop/clear key. I tone detection cone is detected to check the telephone is off the hook when a fax is connected to a pu e network. sing the numeric keys to change the setting.							
3. Se sw 1.	To return to the tting PSTN dia lects if the dial t itched telephone Enter 1 or 2 us Display 1: ON 2: OFF Press the start	e screen for selecting an item, press the stop/clear key. I tone detection tone is detected to check the telephone is off the hook when a fax is connected to a pu e network. sing the numeric keys to change the setting. Description Detects the dial tone.							
<ul> <li>3.</li> <li>Se</li> <li>Se</li> <li>sw</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Se</li> <li>Wh</li> <li>the</li> <li>Fax</li> <li>Ho</li> </ul>	To return to the tting PSTN dia lects if the dial ti itched telephone Enter 1 or 2 us Display 1: ON 2: OFF Press the start To return to the tting busy tone a fax signal a busy tone is no x transmission r wever, the line i	e screen for selecting an item, press the stop/clear key. I tone detection tone is detected to check the telephone is off the hook when a fax is connected to a pu e network. sing the numeric keys to change the setting.           Description           Detects the dial tone.           Does not detect the dial tone.           tkey. The value is set.           e screen for selecting an item, press the stop/clear key.							
<ul> <li>3.</li> <li>Se</li> <li>Se</li> <li>sw</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Se</li> <li>Wh</li> <li>the</li> <li>Fax</li> <li>Ho</li> </ul>	To return to the tting PSTN dia lects if the dial ti itched telephone Enter 1 or 2 us Display 1: ON 2: OFF Press the start To return to the tting busy tone a fax signal a busy tone is no x transmission r wever, the line i	e screen for selecting an item, press the stop/clear key. I tone detection tone is detected to check the telephone is off the hook when a fax is connected to a pu e network. sing the numeric keys to change the setting. Description Detects the dial tone. Does not detect the dial tone. t key. The value is set. e screen for selecting an item, press the stop/clear key. e detection is sent, sets whether the line is disconnected immediately after a busy tone is detected ot detected and the line remains connected until T0 time-out time. nay fail due to incorrect busy tone detection. When set to 2, this problem may be prevent s not disconnected within the T0 time-out time even if the destination line is busy.							
<ul> <li>3.</li> <li>Se</li> <li>Se</li> <li>sw</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Se</li> <li>Wh</li> <li>the</li> <li>Fax</li> <li>Ho</li> </ul>	To return to the tting PSTN dia lects if the dial ti itched telephone Enter 1 or 2 us Display 1: ON 2: OFF Press the start To return to the tting busy tone busy tone is no x transmission r wever, the line i Enter 1 or 2 us	e screen for selecting an item, press the stop/clear key. I tone detection cone is detected to check the telephone is off the hook when a fax is connected to a put e network. sing the numeric keys to change the setting. Description Detects the dial tone. Does not detect the dial tone. t key. The value is set. e screen for selecting an item, press the stop/clear key. e detection is sent, sets whether the line is disconnected immediately after a busy tone is detected to telected and the line remains connected until T0 time-out time. nay fail due to incorrect busy tone detection. When set to 2, this problem may be prevent s not disconnected within the T0 time-out time even if the destination line is busy. sing the numeric keys to change the setting.							

Maintenance				Description						
item No.	0.0									
U615 (cont.)										
		Display		scription						
		1: EARTH	Earth mode		-					
		2: FLS	Flashing mode							
		3: LOOP	Code number mode							
	2	Press the start ke	ey. The value is set.		1					
				tem, press the stop/clear ke	٧.					
	Pres	<b>npletion</b> ss the stop/clear k layed.	key at the screen for sel	ecting an item. The screen t	or selecting a maintenance item No. is					
U616	Adj	usting the ratio o	of make-to-break of d	ial pulses						
	Des	cription								
	Adjı	usts the ratio of m	ake-to-break (ratio of n	nake in pulse cycles) of dial	pulses.					
		pose								
					20 PPS is for Japanese specifications					
	-	-	necessary for other sp	pecifications.						
	Sta		<b>T</b> I ( )							
		Press the start ke Press the approp		ting an item is displayed.						
			e selected item appear	'S						
		Display		Description						
				•						
		MAKE TIME (10	) PPS)   Make time (10 ) PPS)   Make time (20							
	Setting									
	1.	_	ng using the numeric ke	eys.						
		Des	scription	Setting range						
			e pulse cycle (10 PPS) e pulse cycle (20 PPS)							
			ey. The value is set. creen for selecting an i	tem, press the stop/clear ke	y.					
		npletion								
			key at the screen for sel	ecting an item. The screen f	or selecting a maintenance item No. is					
	aisp	layed.								

item No.		Description						
U617	Outputting lists							
	<b>Description</b> Outputs a list of data regarding fax transmissions.							
	<b>Purpose</b> Used to check conditions of use, settings and transmission procedures of the fax.							
	<ol> <li>Press the start key. The s</li> <li>Press the appropriate list The selected list is output</li> </ol>							
	Dioplay	Description						
	Display	Description						
	SETTING LIST	Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information.						
		Outputs a list of software switches, self telephone number,						
	SETTING LIST	Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information. Outputs a list of error history, transmission line details						
	SETTING LIST	Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information. Outputs a list of error history, transmission line details and other information. Outputs a list of settings in maintenance mode						

n No.					Descr	ription				
	Setting the system 1 Description Makes settings for fax reception regarding the sizes of the fax paper and received images and automati printing of the protocol list.									
	<ol> <li>Start</li> <li>Press the start key</li> <li>Press the appropria The screen for the</li> </ol>	ate iterr	ı.		g an iter	m is disp	blayed.			
	Display				Descr	iption				
	CUT LINE (100%	)					gnored when			
	CUT LINE (AUTC CUT LINE (A4)	))	receiving a fax at 100% magnification. Sets the number of lines to be ignored when receiving a fax in the auto reduction mode. Sets the number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction							
	RX WIDTH 11" PROTOCOL PRT		mode. Sets the	recordi	ng width	n for inch	n specifications. le protocol list.			
	Setting the number o Sets the maximum nur when recording the dat are ignored. If over the 1. Change the setting	nber of a at 10 setting	lines to b 0% magr , they are	be ignor hificatior e record	ed if the n. If the r ed on th	e receive number	ed data volume exc of excess lines is b	eeds the i	recording cap	
	Description	Settin	-		etting Change in value pe		e in value per ste	р		
	Number of lines to be ignored when receiving at 100%	0 to 2	2	3 16 lines		S				
	<ul> <li>Increase the setting if a blank second page is received, and decrease it if the received image does no include the entire transmitted data.</li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul>									
	Setting the number of Sets the maximum nur when the data is record lines are ignored. If over the same page. 1. Change the setting	f lines nber of ded in th er the se using t	to be ign lines to b ne auto re etting, the	ored w be ignor eduction e entire ric keys	then rec red if the mode. I data on	eiving a receive If the nu a page i	a fax in the auto ro ed data volume exc mber of excess line is further reduced s	eeds the it is below so that it c	recording cap v the setting, 1	hos
	Description	ו	-		Initial s	setting	Change in value	per step		
	Number of lines to be ignored when receiving in the auto reduction		0 to 22		3		16 lines			
	<ul> <li>the auto reduction mode</li> <li>Increase the setting if a page received in the reduction mode is over-reduced and too much trailing ed margin is left. Decrease it if the received image does not include all transmitted data.</li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ul>								edg	

Maintenance item No.				Description					
U650 (cont.)	Sets the maximum n when the data is reco	umber of I rded in the ss lines is uced so th nd folio at er present	lines to be ignor e auto reduction below the settin at it can be reco psent in the draw and legal-size p	ed if the receive mode onto A4R g, those lines and orded on the sar vers paper absent in		recording capacity e conditions below.			
	Descripti	on Setting range Initial setting Change in value per step							
	Number of lines to be ignored when receiving fax (A4R, letter) the auto reducti	a in	0 to 22	3	16 lines				
	margin is left. Dev 2. Press the start ke 3. To return to the s	crease it in ey. The val creen for	f the received im ue is set. selecting an iten	nage does not in n, press the stop	de is over-reduced and too clude all transmitted data. p/clear key.	much trailing edge			
	Setting the recordin Sets the maximum re specification machine 1. Enter 1 or 2 using	ecording v e.	vidth and proces	ssing method w	hen 11" width fax paper is l	oaded on an inch-			
	Display		Descr	iption					
	1: 11 × 17 2: B4	Communicates to the destination unit 11" width as A3 width and records at 100% magnifications.							
	<ol> <li>2: B4 Communicates to the destination unit 11" width as B4 width.</li> <li>2. Press the start key. The value is set.</li> <li>3. To return to the screen for selecting an item, press the stop/clear key.</li> </ol>								
	Setting the automatic printing of the protocol list Sets if the protocol list is automatically printed out. 1. Change the setting using the numeric keys.								
	Display		Description						
	1: OFF 2: ERROR 3: ON	The prot The prot only if a The prot							
	<ol> <li>ON The protocol list is automatically printed out after communication.</li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>								
	Completion Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.								

em No.	Description																	
651	Setting the system 2																	
	Description																	
		-	tation reception and the num	ber of a	djustmer	nt lines f	for autom	atic re	duction.									
	Sta		aroon for colocting on itom is	diaplay	o d													
	<ol> <li>Press the start key. The screen for selecting an item is displayed.</li> <li>Press the appropriate item.</li> </ol>																	
	The screen for the selected item appears.																	
		Display	Description															
		ROTAT. RX ERR	Sets the variation range in	the auxil	iary sca	nning d	irection											
		for rotation reception.																
		ADJ LINES ADJ LINES (A4)	Sets the number of adjustr															
			when A4 paper is set.															
		ADJ LINES (LT)	Sets the number of adjustn when letter size paper is se		s for aut	omatic I	reduction											
	Set	Setting the variations range in rotation reception																
	Set	Sets the maximum number of lines to be ignored when the received data exceeds the acceptable number of																
	lines in the rotation reception mode. If the number of excessive lines is smaller than the set value, those lines																	
	are ignored and rotation reception is performed; if it is larger than the set value, rotation reception performed.																	
		Change the setting using	the numeric keys.															
		De	escription		Setting	range	Initial se	etting	_									
		Number of variation line	s in the auxiliary scanning di	rection	0 to 25	5	3											
			n fails, it can be enabled by	increasi	ng this	value, ł	nowever,	some	parts of the									
		received image may not b																
		Press the start key. The variable to return to the screen for		e stop/cle	ear kev.													
	<ol> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the number of adjustment lines for automatic reduction</li> </ol>																	
	Set	s the number of adjustme	nt lines for automatic reduction															
	1.	Change the setting using	•															
			ription	Setting range Initial setting														
			nes for automatic reduction	0 to 22		7												
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>																	
			stment lines for automatic					t										
	Sets the number of adjustment lines for automatic reduction when A4 paper is set. 1. Change the setting using the numeric keys.																	
			cription	Setting	range	Initial	settina											
			nes for automatic reduction	0 to 22		22	betting											
		when A4 paper is set		0 10 22														
	2. Press the start key. The value is set.																	
				ston/cla	3. To return to the screen for selecting an item, press the stop/clear key.													
	3.	To return to the screen for	r selecting an item, press the	•	-	letter	size nane	er is s	Setting the number of adjustment lines for automatic reduction when letter size paper is set Sets the number of adjustment lines for automatic reduction when letter size paper is set.									
	3. <b>Set</b> Sets	To return to the screen fo ting the number of adjust s the number of adjustment	r selecting an item, press the stment lines for automatic nt lines for automatic reduction	reductio	on when			er is s	et									
	3. <b>Set</b> Sets	To return to the screen for ting the number of adjust s the number of adjustment Change the setting using	r selecting an item, press the stment lines for automatic nt lines for automatic reduction	reductio	on when letter si		er is set.	er is s	et									
	3. <b>Set</b> Sets	To return to the screen for ting the number of adjust s the number of adjustment Change the setting using Des	r selecting an item, press the stment lines for automatic nt lines for automatic reduction the numeric keys. cription nes for automatic reduction	reduction on when	on when letter si	ze pape	er is set.	er is s	et									
	3. Set 1.	To return to the screen for ting the number of adjust is the number of adjustment Change the setting using Des Number of adjustment li when letter size paper is	r selecting an item, press the stment lines for automatic nt lines for automatic reduction the numeric keys. cription nes for automatic reduction s set	reduction on when Setting	on when letter si	ze pape Initial s	er is set.	er is s	et									
	3. Set: 1. 2.	To return to the screen for ting the number of adjust is the number of adjustment Change the setting using Des Number of adjustment li when letter size paper is Press the start key. The vert	r selecting an item, press the stment lines for automatic nt lines for automatic reduction the numeric keys. cription nes for automatic reduction s set	reductic on when Setting 0 to 26	on when letter si range	ze pape Initial s	er is set.	er is s	et									
	<ol> <li>3.</li> <li>Set:</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Cor</li> </ol>	To return to the screen for ting the number of adjust is the number of adjustment Change the setting using Des Number of adjustment li when letter size paper is Press the start key. The ver To return to the screen for mpletion	r selecting an item, press the stment lines for automatic nt lines for automatic reduction the numeric keys. cription nes for automatic reduction s set alue is set. r selecting an item, press the	reductic on when Setting 0 to 26 e stop/cle	range	ze pape Initial s 26	er is set.											
	<ol> <li>3.</li> <li>Set:</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>Cor</li> <li>Pres</li> </ol>	To return to the screen for ting the number of adjust is the number of adjustment Change the setting using Des Number of adjustment li when letter size paper is Press the start key. The ver To return to the screen for mpletion	r selecting an item, press the stment lines for automatic nt lines for automatic reduction the numeric keys. cription nes for automatic reduction s set alue is set.	reductic on when Setting 0 to 26 e stop/cle	range	ze pape Initial s 26	er is set.											

ce	Description						
	Setting the system (communication 2)						
	Description Makes settings for fax transmission regarding the communication. Purpose						
-	•	ion errors when a	low quality line is used.				
	<ol> <li>Press the start key. The screen for selecting an item is displayed.</li> <li>Press the appropriate item. The screen for the selected item appears.</li> </ol>						
	Di	isplay	Description				
	TCF CHECK 2 SHORT PROTO SHORT PROTO NUMBER of CI 1TOUCH ECM	OCOL TX OCOL RX	Sets the criteria for receiving a TCF signal 2. Sets the short protocol transmission. Sets the reception of short protocol transmission. Sets the CNG detection times in the fax/telephone auto select mode. Turns ECM for one-touch dialing on/off.				
		king time as a crit	<b>CF signal 2</b> erion for a received TCF signal. v to change the setting.				
	Display		Description				
	1: LONG 2: SHORT	Checks for 1.0 s Checks for 0.8 s					
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>Setting the short protocol transmission</li> </ol>						
	Setting the short protocol 1. Change the setti	l transmission is p	erformed.				
	Display		Description				
	1: ON 2: OFF		ransmission is performed. ransmission is not performed.				
	<ol> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> </ol>						
	<ul> <li>Setting the reception of a short protocol transmission</li> <li>Selects whether to receive or ignore transmission using short protocol.</li> <li>If a short protocol transmission is received when an auto switching device is attached to the machine, communication problems, including auto switching inability, sometimes occur. Change the setting to ignore short protocol transmission to prevent such problems.</li> <li>1. Change the setting using the numeric keys.</li> </ul>						
	Display		Description				
	1: ON 2: OFF	Ignores short pr	protocol transmission. rotocol transmission.				
	<ol> <li>Press the start k</li> <li>To return to the s</li> </ol>		et. g an item, press the stop/clear key.				

Maintenance item No.			Description			
U660 (cont.)	Sets	Setting the CNG detection times in the fax/telephone auto select mode Sets the CNG detection times in the fax/telephone auto select mode. 1. Change the setting using the numeric keys.				
	1.	Display	Description			
		1: 1 TIME 2: 2 TIMES	Detects CNG once. Detects CNG twice.			
			ey. The value is set. creen for selecting an item, press the stop/clear key.			
	Turr 1.	Enter a registered	<b>h one-touch key</b> each one-touch key. d two-digit one-touch key number and press the start key. g the numeric keys to change the setting.			
		Display	Description			
		1: ON 2: OFF	ECM communication is performed for all one-touch keys. Disables the ECM for one-touch keys.			
			ey. The value is set. The screen for entering a one-touch key number creen for selecting an item, press the stop/clear key at the screen fo			
		ss the stop/clear k layed.	key at the screen for selecting an item. The screen for selecting a m	aintenance item No. is		

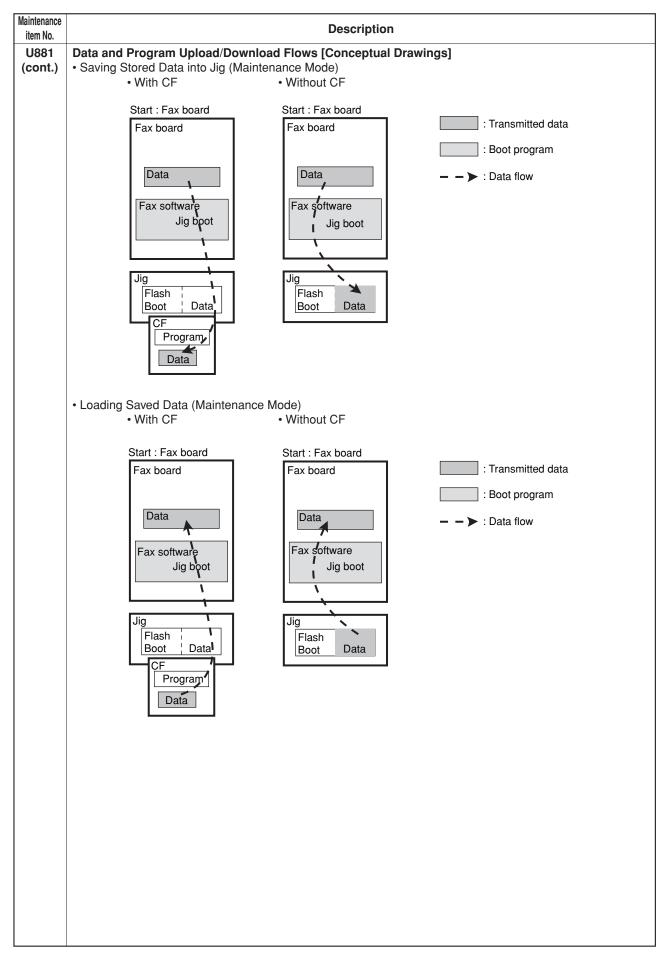
Display       Description         V.34 MODEM       Enables or disables V.34 communication.         V.34 MODEM       Enables or disables V.34 communication.         V.34 MODEM       Enables or disables V.34 communication.         V.34-3429Hz       Sets the V.34 symbol speed (3429 Hz).         V.34-3000Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3000Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3000Hz       Sets the V.34 symbol speed (2800 Hz).         V.34-3000Hz       Sets the V.34 symbol speed (2800 Hz).         V.34-3000Hz       Sets the V.34 symbol speed (2800 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         Tabling/disabling V.34 communication       Sets the V.34 symbol speed (2800 Hz).         Sets the V.34 symbol speed (2800 Hz).       Sets the V.34 symbol speed (2800 Hz).         Tabling/disabling V.34 communication is enabled/disabled for transmission and reception.       Change the setting using the numeric keys.         I ON       V.34 communication is enabled for both transmission and reception.       Sets The V.34 communication is enabled for transmission only.         3: RX       V.34 communication is enabled for transmission and reception.       Sets the V.34 communication		Description					
lakes settings for fax transmission regarding the communication.         urpose         oreduce transmission errors when a low quality line is used.         tart         Press the start key. The screen for selecting an item is displayed.         Press the appropriate item.         The screen for the selected item appears.                 V.34 MODEM         V.34-3429Hz         Sets the V.34 symbol speed (3200 Hz).         V.34-3000Hz         Sets the V.34 symbol speed (3000 Hz).         V.34-3000Hz         Sets the V.34 symbol speed (3000 Hz).         V.34-3000Hz         Sets the V.34 symbol speed (2000 Hz).         V.34-2800 Hz         Sets the V.34 symbol speed (2000 Hz).         Sets the V.34 symbol speed (2000 Hz).         Change the setting using the numeric keys.                 Press the start key. The value is est.             Press the start key. The value is set.             Press the start key. The value is set.             Press the start key. The value is set.             V.34 communication is enabled for both transmission and reception. </td <td>Set</td> <td colspan="5">Setting the system (communication 3)</td>	Set	Setting the system (communication 3)					
Durpose or reduce transmission errors when a low quality line is used.           tart	Description						
b reduce transmission errors when a low quality line is used. tart  Press the start key. The screen for selecting an item is displayed. Press the appropriate item. The screen for the selected item appears.           Display       Description         V.34 MODEM       Enables or disables V.34 communication. V.34-3429Hz         Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         v.34-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         nabling/disabling V.34 communication       Sets the V.34 symbol speed (2800 Hz).         st whether V.34 communication is enabled/disabled for transmission and reception.       Change the setting using the numeric keys.         Display       Description       1: ON         1: ON       V.34 communication is enabled for transmission and reception.         2: TK       V.34 communication is enabled for both transmission and reception.         2: TK       V.34 communication is enabled for both transmission and reception.         2: TK       V.34 communication is enabled for both transmission and reception.         2: TK       V.34 communication is enabled for both transmission and reception.         2: TK       V.34 communication is enabled for both transmission and reception.         2: TK       V.34 communication is	Mal	kes settings for fa	x transmission reg	garding the communication.			
tart         Press the start key. The screen for selecting an item is displayed.         Press the appropriate item.         The screen for the selected item appears.         V.34 MODEM       Enables or disables V.34 communication. Sets the V.34 symbol speed (3429 Hz). V.34-3000Hz         V.34-300Hz       Sets the V.34 symbol speed (3000 Hz). V.34-2800 Hz         Sets the V.34 symbol speed (3000 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (3000 Hz).         Change the setting using the numeric keys.       Display         Display       Description         1: ON       V.34 communication is enabled for transmission and reception.         2: TX       V.34 communication is enabled for transmission and reception.         3: RX       V.34 communication is enabled for transmission and reception.         4: OFF       V.34 communication is enabled for transmission and reception.         5: TX       V.34 communication is enabled for transmission and reception.         6: Terurn to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz)         etting the V.34 symbol speed (3200 Hz) is used.         2: OFF       V.34 symbol speed (3200 Hz)         et	Pur	rpose					
. Press the start key. The screen for selecting an item is displayed.         2 Press the appropriate item.         The screen for the selected item appears.         2 Notes the selected approximitication is enabled for transmission and reception. <t< td=""><td colspan="6">To reduce transmission errors when a low quality line is used.</td></t<>	To reduce transmission errors when a low quality line is used.						
Press the appropriate item.         The screen for the selected item appears.         Display       Description         V.34 MODEM       Enables or disables V.34 communication.         V.34-3429Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (2800 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         Ast-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         Ast-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         Ast-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         Ast-2800 Hz       Sets the V.34 symbol speed (2800 Hz).         Sets the V.34 communication is enabled for transmission and reception.       Change the setting using the numeric keys.         Display       Description       1: ON         1: ON       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for both transmission and reception.         4: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz) is used.         2: OFF       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200	Start						
Display       Description         V.34 MODEM       Enables or disables V.34 communication.         V.34-3200Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3000Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (3200 Hz).         Sets the V.34 communication       Sets the V.34 symbol speed (3200 Hz).         • Change the setting using the numeric keys.       Display         Display       Description         1: ON       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is disabled to both transmission and reception.         2: Press the start key. The value is set.       Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         <				selecting an item is displayed.			
Display         Description           V.34 MODEM         Enables or disables V.34 communication.           V.34.3429Hz         Sets the V.34 symbol speed (3429 Hz).           V.34-3200Hz         Sets the V.34 symbol speed (3000 Hz).           V.34-3000Hz         Sets the V.34 symbol speed (3000 Hz).           V.34-3000Hz         Sets the V.34 symbol speed (2800 Hz).           v.34-2800 Hz         Sets the V.34 symbol speed (2800 Hz).           nabling/disabling V.34 communication is enabled/disabled for transmission and reception.         Change the setting using the numeric keys.           Display         Description           1: ON         V.34 communication is enabled for both transmission and reception.           2: TX         V.34 communication is enabled for both transmission and reception.           3: RX         V.34 communication is enabled for both transmission and reception.           4: OFF         V.34 communication is disabled for both transmission and reception.           5: TX         V.34 communication is enabled for toception only.           4: OFF         V.34 communication is enabled for both transmission and reception.           2: OFF         V.34 symbol speed 3429 Hz           1: ON         V.34 symbol speed 3429 Hz           2: OFF         V.34 symbol speed 3220 Hz           2: OFF         V.34 symbol speed 3200 Hz	2.						
V.34 MODEM       Enables or disables V.34 communication.         V.34-3429Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (3000 Hz).       Sets the V.34 symbol speed (2800 Hz).         Sets the V.34 symbol speed (2800 Hz).       Sets the V.34 symbol speed (2800 Hz).         Sets the V.34 communication is enabled for transmission and reception.       Change the setting using the numeric keys.         Display       Description       Not transmission and reception.         1: ON       V.34 communication is enabled for transmission and reception.         2: TX       V.34 communication is disabled for both transmission and reception.         3: RX       V.34 communication is disabled for both transmission and reception.         1: ON       V.34 communication is disabled for both transmission and reception.         2: OFF       V.34 communication is disabled for both transmission and reception.         1: ON       V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3429 Hz)       is used.         2: OFF       V.34 symbol speed (3200 Hz)         ets if the V.34	The screen for the selected item appears.						
V.34 MODEM       Enables or disables V.34 communication.         V.34-3429Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3000 Hz).         V.34-2800 Hz       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (3000 Hz).       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (3000 Hz).       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (3000 Hz).       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (3000 Hz).       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (300 Hz)       Sets the V.34 symbol speed (300 Hz).         Sets the V.34 symbol speed (3429 Hz)       Sets the V.34 symbol speed (3429 Hz)         Sets the V.34 symbol speed (3429 Hz)       Sets the V.34 symbol speed (3429 Hz)         Sets if the V.34 symbol speed (3200 Hz)       Sets if the V.34 symbol speed (3200 Hz)         Sets if the V.34 symbol speed (3200 Hz)       Sets is used.         Sets the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         Sets if the V.34 symbol speed (3200 Hz)       Sets is set.         Sets for start key. The value is set.       To r		П	isnlav	Description			
V.34-3429Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3200Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3800Hz       Sets the V.34 symbol speed (3200 Hz).         Sets the V.34 symbol speed (3200 Hz).       Sets the V.34 symbol speed (3200 Hz).         sets the V.34 symbol speed (2800 Hz).       Sets the V.34 symbol speed (2800 Hz).         sets whether V.34 communication is enabled/disabled for transmission and reception.       Change the setting using the numeric keys.         Display       Description         1: ON       V.34 communication is enabled for transmission only.         2: TX       V.34 communication is enabled for transmission and reception.         2: NF       V.34 communication is enabled for transmission and reception.         2: OFF       V.34 communication is enabled for transmission and reception.         4: OFF       V.34 communication is enabled for transmission and reception.         5: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol s			ispidy				
V.34-3200Hz       Sets the V.34 symbol speed (3200 Hz).         V.34-3000Hz       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (2800 Hz).       Sets the V.34 symbol speed (2800 Hz).         mabling/disabling V.34 communication       est the V.34 symbol speed (2800 Hz).         communication is enabled/disabled for transmission and reception.       Change the setting using the numeric keys.         Display       Description         1: ON       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for transmission and reception.         2: TX       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for both transmission and reception.         2: OFF       V.34 communication is disabled for both transmission and reception.         2: OFF       V.34 communication is disabled for both transmission and reception.         4: OFF       V.34 communication is disabled for both transmission and reception.         4: OFF       V.34 communication is disabled for both transmission and reception.         4: OFF       V.34 communication is disabled for both transmission and reception.         5: To return to the screen for selecting an item, press the stop/clear key.         etting							
V.34-3000Hz       Sets the V.34 symbol speed (3000 Hz).         Sets the V.34 symbol speed (2800 Hz).         nabling/disabling V.34 communication         ets whether V.34 communication is enabled/disabled for transmission and reception.         Change the setting using the numeric keys.         Display       Description         1: ON       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for reception only.         3: RX       V.34 communication is enabled for both transmission and reception.         2: OFF       V.34 communication is enabled for both transmission and reception.         4: OFF       V.34 communication is disabled for both transmission and reception.         7: Start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz)       ets if the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3200 Hz)       is is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz i							
mabling/disabling V.34 communication is enabled/disabled for transmission and reception.         Change the setting using the numeric keys.         Display       Description         1: ON       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for reception only.         3: RX       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is disabled for both transmission and reception.         2: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed (3000 Hz)         ets if the V							
ets whether V.34 communication is enabled/disabled for transmission and reception. Change the setting using the numeric keys.           Display         Description           1: ON         V.34 communication is enabled for both transmission and reception.           2: TX         V.34 communication is enabled for reception only.           3: RX         V.34 communication is enabled for reception only.           4: OFF         V.34 communication is disabled for both transmission and reception.           Press the start key. The value is set.         To return to the screen for selecting an item, press the stop/clear key.           etting the V.34 symbol speed (3429 Hz)         etsi fthe V.34 symbol speed (3429 Hz)           ets if the V.34 symbol speed (3429 Hz)         etsi           etsi fthe V.34 symbol speed (3429 Hz)         etsi           etsi fthe V.34 symbol speed (3429 Hz)         etsi           etsi fthe V.34 symbol speed (3429 Hz)         is used.           2: OFF         V.34 symbol speed 3429 Hz is used.           2: OFF         V.34 symbol speed 3429 Hz is not used.           2: OFF         V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3000 Hz)           ets if the V.34 symbol speed (3000 Hz)           ets if the V.34 symbol speed (3000 Hz)           ets if the		V.34-2800 Hz		Sets the V.34 symbol speed (2800 Hz).			
ets whether V.34 communication is enabled/disabled for transmission and reception. Change the setting using the numeric keys.           Display         Description           1: ON         V.34 communication is enabled for both transmission and reception.           2: TX         V.34 communication is enabled for reception only.           3: RX         V.34 communication is enabled for reception only.           4: OFF         V.34 communication is disabled for both transmission and reception.           Press the start key. The value is set.         To return to the screen for selecting an item, press the stop/clear key.           etting the V.34 symbol speed (3429 Hz)         etsi fthe V.34 symbol speed (3429 Hz)           ets if the V.34 symbol speed (3429 Hz)         etsi fthe V.34 symbol speed (3429 Hz)           ets if the V.34 symbol speed (3429 Hz)         etsi dthe V.34 symbol speed (3429 Hz)           ets if the V.34 symbol speed (3429 Hz)         etsi dthe V.34 symbol speed (3429 Hz)           ets if the V.34 symbol speed (3429 Hz)         is used.           2: OFF         V.34 symbol speed 3429 Hz is used.           2: OFF         V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3000 Hz)           ets if the V.34 symbol speed (3000 Hz)           ets if the V.34 symbol speed (3000 Hz)           ets if t		bling/diachline	V21 communication	tion	]		
Change the setting using the numeric keys.         Display       Description         1: ON       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is disabled for both transmission and reception.         2: OFF       V.34 communication is disabled for both transmission and reception.         2: OFF       V.34 communication is disabled for both transmission and reception.         2: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is used.         4: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.					ion		
Display         Description           1: ON         V.34 communication is enabled for both transmission and reception.           2: TX         V.34 communication is enabled for reception only.           3: RX         V.34 communication is enabled for reception only.           4: OFF         V.34 communication is enabled for reception only.           4: OFF         V.34 communication is disabled for both transmission and reception.           2: Press the start key. The value is set.         To return to the screen for selecting an item, press the stop/clear key.           etting the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3429 Hz)           ets if the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed 3429 Hz is used.           . Enter 1 or 2 using the numeric keys to change the setting.         Display           1: ON         V.34 symbol speed 3429 Hz is used.           2: OFF         V.34 symbol speed 3429 Hz is not used.           2: OFF         V.34 symbol speed 3429 Hz is not used.           2: OFF         V.34 symbol speed 3200 Hz is used.           4: To return to the screen for selecting an item, press the stop/clear key.           etting the V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3200 Hz)           ets if the V.34 symbol speed (3200 Hz)           2: OFF         V.34 symbol speed 3200 Hz is used.							
1: ON       V.34 communication is enabled for both transmission and reception.         2: TX       V.34 communication is enabled for transmission only.         3: RX       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is disabled for both transmission and reception.         Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz)       etsi f the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3429 Hz)       etsi f the V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3200 Hz)       etsi f the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.       .         . Enter 1 or 2 using the numeric keys to change the setting.				-			
2: TX       V.34 communication is enabled for transmission only.         3: RX       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is disabled for both transmission and reception.         Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         eting the V.34 symbol speed (3429 Hz)       ets if the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3429 Hz)       ets if the V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3200 Hz)       ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.       Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz         etif the V.34 symbol spe			V 34 communic	•	ecention		
3: RX       V.34 communication is enabled for reception only.         4: OFF       V.34 communication is disabled for both transmission and reception.         2. Press the start key. The value is set.       To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed 3429 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used. <td< td=""><td></td><td></td><td></td><td></td><td>eception.</td></td<>					eception.		
4: OFF       V.34 communication is disabled for both transmission and reception.         2: Press the start key. The value is set.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed (3429 Hz)         1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.							
<ul> <li>a. To return to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed (3429 Hz)</li> <li>ets if the V.34 symbol speed 3429 Hz is used.</li> <li>a. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>ON V.34 symbol speed 3429 Hz is used.</li> <li>OFF V.34 symbol speed 3429 Hz is used.</li> <li>OFF V.34 symbol speed 3429 Hz is not used.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed (3200 Hz)</li> <li>ets if the V.34 symbol speed 3200 Hz is used.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ul> Display Description <ul> <li>1: ON V.34 symbol speed 3200 Hz is used.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ul> <li>Display Description <ul> <li>1: ON V.34 symbol speed 3200 Hz is used.</li> <li>2: OFF V.34 symbol speed 3200 Hz is used.</li> <li>2: OFF V.34 symbol speed 3200 Hz is used.</li> </ul> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed (3000 Hz)</li> <li>ets if the V.34 symbol speed 3000 Hz is used.</li> <li>for erurn to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed 3000 Hz is used.</li> <li>for erurn to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed 3000 Hz is used.</li> <li>for erurn to the screen for selecting an item, press the stop/clear key.</li>		4: OFF			eception.		
etting the V.34 symbol speed (3429 Hz)         ets if the V.34 symbol speed 3429 Hz is used.         Display Description         1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         Press the start key. The value is set.         Or eturn to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed (3000 Hz)         etting the V.34 symbol speed (3000 Hz)         etting the V.34 symbol speed (3000 Hz)         etting the V.34			•				
ets if the V.34 symbol speed 3429 Hz is used. Enter 1 or 2 using the numeric keys to change the setting. Display       Description         1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.							
Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: Or eturn to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3000 Hz is used.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed 3000 Hz is used.         4: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed 3000 Hz is used.         5: Enter 1 or 2 using the numeric keys to change the setting.         Display       Description <td colspan="7">Setting the V.34 symbol speed (3429 Hz)</td>	Setting the V.34 symbol speed (3429 Hz)						
Display       Description         1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz         etting the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed (3000 Hz)         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol							
1: ON       V.34 symbol speed 3429 Hz is used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed (3200 Hz)         etting the V.34 symbol speed 3200 Hz is used.         2: Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         2: OFF       V.34 symbol speed 3000 Hz         etting the V.34 symbol speed 3000 Hz is used.         3: Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not u	Set	s if the V.34 symb		z is used.			
2: OFF       V.34 symbol speed 3429 Hz is not used.         2: OFF       V.34 symbol speed 3429 Hz is not used.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed (3000 Hz)         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         2: OFF	Set	s if the V.34 symbols Enter 1 or 2 usin		z is used. s to change the setting.			
<ul> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed (3200 Hz)</li> <li>ets if the V.34 symbol speed 3200 Hz is used.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>ON V.34 symbol speed 3200 Hz is used.</li> <li>OFF V.34 symbol speed 3200 Hz is not used.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed (3000 Hz)</li> <li>ets if the V.34 symbol speed (3000 Hz)</li> <li>ets if the V.34 symbol speed (3000 Hz)</li> <li>ets if the V.34 symbol speed 3000 Hz is used.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ul> Display Description <ul> <li>1: ON V.34 symbol speed 3000 Hz is used.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ul> Display Description 1: ON V.34 symbol speed 3000 Hz is used. 2: OFF V.34 symbol speed 3000 Hz is used. 2: OFF V.34 symbol speed 3000 Hz is used. 2: OFF V.34 symbol speed 3000 Hz is used. 2: OFF V.34 symbol speed 3000 Hz is not used. 2: OFF V.34 symbol speed 3000 Hz is not used. 2: OFF V.34 symbol speed 3000 Hz is not used. 2: OFF V.34 symbol speed 3000 Hz is not used. 2: OFF V.34 symbol speed 3000 Hz is not used. 3: OFF V.34 symbol speed 3000 Hz is not used. 3: Press the start key. The value is set.	Set	s if the V.34 symb Enter 1 or 2 usin <b>Display</b>	g the numeric key	z is used. s to change the setting. Description			
<ul> <li>a. To return to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed (3200 Hz) ets if the V.34 symbol speed 3200 Hz is used.</li> <li>a. Enter 1 or 2 using the numeric keys to change the setting.</li> <li>Display Description <ol> <li>ON V.34 symbol speed 3200 Hz is used.</li> <li>OFF V.34 symbol speed 3200 Hz is not used.</li> </ol> </li> <li>Press the start key. The value is set.</li> <li>To return to the screen for selecting an item, press the stop/clear key.</li> <li>etting the V.34 symbol speed (3000 Hz)</li> <li>ets if the V.34 symbol speed 3000 Hz is used.</li> <li>Enter 1 or 2 using the numeric keys to change the setting.</li> </ul> Display Description <ul> <li>1: ON V.34 symbol speed 3000 Hz is used.</li> <li>2: OFF V.34 symbol speed 3000 Hz is used.</li> <li>2: OFF V.34 symbol speed 3000 Hz is used.</li> </ul> Press the start key. The value is set.	Set	s if the V.34 symb Enter 1 or 2 usin Display 1: ON	g the numeric key V.34 symbol spo	z is used. s to change the setting. Description eed 3429 Hz is used.			
etting the V.34 symbol speed (3200 Hz)         ets if the V.34 symbol speed 3200 Hz is used.         Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         4. To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         2: OFF       V.34 symbol speed 3000 Hz is not used.	Set 1.	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF	g the numeric key V.34 symbol sp V.34 symbol sp	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used.			
Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.	Set 1. 2.	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol sp V.34 symbol sp ey. The value is se	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et.			
Display       Description         1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OF return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         Press the start key. The value is set.	Set 1. 2. 3.	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k	g the numeric key V.34 symbol sp V.34 symbol sp ey. The value is se screen for selecting	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key.			
1: ON       V.34 symbol speed 3200 Hz is used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         2: OFF       V.34 symbol speed 3200 Hz is not used.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         Press the start key. The value is set.	Set 1. 2. 3. <b>Set</b>	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k ting the V.34 symbol Start Start St	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selection <b>nbol speed (3200</b>	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz)			
2: OFF       V.34 symbol speed 3200 Hz is not used.         2: Press the start key. The value is set.         3: To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is used.         Press the start key. The value is set.	2. 3. Set	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k ting the V.34 symbol s if the V.34 symbol s if the V.34 symbol	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>nbol speed (3200</b> pool speed 3200 Hz	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used.			
2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. <b>etting the V.34 symbol speed (3000 Hz)</b> ets if the V.34 symbol speed 3000 Hz is used. 3. Enter 1 or 2 using the numeric keys to change the setting.           Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         Press the start key. The value is set.	2. 3. Set	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s sting the V.34 symt Enter 1 or 2 usin	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>nbol speed (3200</b> pool speed 3200 Hz	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting.			
B. To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         Press the start key. The value is set.	Set 1. 2. 3. Set	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the st tting the V.34 symbol Enter 1 or 2 usin Display	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>nbol speed (3200</b> bol speed 3200 Hz g the numeric key	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting. Description			
B. To return to the screen for selecting an item, press the stop/clear key.         etting the V.34 symbol speed (3000 Hz)         ets if the V.34 symbol speed 3000 Hz is used.         . Enter 1 or 2 using the numeric keys to change the setting.         Display       Description         1: ON       V.34 symbol speed 3000 Hz is used.         2: OFF       V.34 symbol speed 3000 Hz is not used.         Press the start key. The value is set.	2. 3. Set	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k To return to the start k ting the V.34 symbol Enter 1 or 2 usin Display 1: ON	g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>nbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spe	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting. Description eed 3200 Hz is used.			
ets if the V.34 symbol speed 3000 Hz is used. . Enter 1 or 2 using the numeric keys to change the setting. Display Description 1: ON V.34 symbol speed 3000 Hz is used. 2: OFF V.34 symbol speed 3000 Hz is not used. Press the start key. The value is set.	2. 3. <b>Set</b> 1.	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spo V.34 symbol spo	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used.			
ets if the V.34 symbol speed 3000 Hz is used. . Enter 1 or 2 using the numeric keys to change the setting. Display Description 1: ON V.34 symbol speed 3000 Hz is used. 2: OFF V.34 symbol speed 3000 Hz is not used. Press the start key. The value is set.	Set: 1. 2. 3. <b>Set</b> 1. 2.	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used. et.			
DisplayDescription1: ONV.34 symbol speed 3000 Hz is used.2: OFFV.34 symbol speed 3000 Hz is not used.2. Press the start key. The value is set.	Set 1. 2. 3. Set 1. 2. 3.	s if the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the st ting the V.34 symbol Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the st	g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>nbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key.			
1: ONV.34 symbol speed 3000 Hz is used.2: OFFV.34 symbol speed 3000 Hz is not used.2. Press the start key. The value is set.	Set 1. 2. 3. Set 1. 2. 3. Set 3. Set 5. Set Set 5. Set Set Set 5. Set Set Set Set Set Set Set Set	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt s if the V.34 symt	g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>mbol speed (3000</b> bol speed 3000 Hz	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used.			
2: OFF     V.34 symbol speed 3000 Hz is not used.       Press the start key. The value is set.	Set 1. 2. 3. Set 1. 2. 3. Set 3. Set 5. Set Set 5. Set Set Set 5. Set Set Set Set Set Set Set Set	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt s if the V.34 symt	g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>mbol speed (3000</b> bol speed 3000 Hz	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used. s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) z is used.			
Press the start key. The value is set.	Set 1. 2. 3. Set 1. 2. 3. Set 3. Set Set Set Set	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start it ing the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k To return to the start k ting the V.34 symt s if the V.34 symt s if the V.34 symt	g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>mbol speed (3000</b> bol speed 3000 Hz	<pre>s is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. DHz) s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. DHz) ts used. s to change the setting.</pre>			
	Set 1. 2. 3. Set 1. 2. 3. Set 3. Set Set Set Set	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt s if the V.34 symt s if the V.34 symt Enter 1 or 2 usin Display 1: ON 1: ON	g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>nbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spe ey. The value is se screen for selecting <b>nbol speed (3000</b> bol speed 3000 Hz g the numeric key V.34 symbol spe voi speed 3000 Hz g the numeric key	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. DHz) z is used. s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. DHz) z is used. s to change the setting. Description eed 3000 Hz is used.			
To return to the screen for selecting an item, press the stop/clear key.	Set 1. 2. 3. Set 1. 2. 3. Set 3. Set Set Set Set	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the s ting the V.34 symt s if the V.34 symt s if the V.34 symt Enter 1 or 2 usin Display 1: ON 1: ON	g the numeric key V.34 symbol spe V.34 symbol spe ey. The value is se screen for selecting <b>nbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spe ey. The value is se screen for selecting <b>nbol speed (3000</b> bol speed 3000 Hz g the numeric key V.34 symbol spe voi speed 3000 Hz g the numeric key	z is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. DHz) z is used. s to change the setting. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. DHz) z is used. s to change the setting. Description eed 3000 Hz is used.			
	Set 1. 2. 3. Set 1. 2. 3. Set 1. 2. 3. Set 1. 2. 2.	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start it the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k To return to the start k ting the V.34 symt Enter 1 or 2 usin S if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3000</b> bol speed 3000 Hz g the numeric key V.34 symbol spo ey the numeric key V.34 symbol spo v.34 symbol spo V.34 symbol spo v.34 symbol spo v.34 symbol spo v.34 symbol spo	<pre>s is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3000 Hz is used. eed 3000 Hz is used. eed 3000 Hz is not used. eed 3000 Hz is not used. et.</pre>			
	Set 1. 2. 3. Set 1. 2. 3. Set 1. 2. 3. Set 1. 2. 2.	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start it the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k To return to the start k ting the V.34 symt Enter 1 or 2 usin S if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3000</b> bol speed 3000 Hz g the numeric key V.34 symbol spo ey the numeric key V.34 symbol spo v.34 symbol spo V.34 symbol spo v.34 symbol spo v.34 symbol spo v.34 symbol spo	<pre>s is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3000 Hz is used. eed 3000 Hz is used. eed 3000 Hz is not used. eed 3000 Hz is not used. et.</pre>			
	Set 1. 2. 3. Set 1. 2. 3. Set 1. 2. 3. Set 1. 2. 2.	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start it the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k To return to the start k ting the V.34 symt Enter 1 or 2 usin S if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3000</b> bol speed 3000 Hz g the numeric key V.34 symbol spo ey the numeric key V.34 symbol spo v.34 symbol spo V.34 symbol spo v.34 symbol spo v.34 symbol spo v.34 symbol spo	<pre>s is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3000 Hz is used. eed 3000 Hz is used. eed 3000 Hz is not used. eed 3000 Hz is not used. et.</pre>			
	Set 1. 2. 3. Set 1. 2. 3. Set 1. 2. 3. 2. 3. 2. 3. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	s if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start it the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k To return to the start k To return to the start k ting the V.34 symt Enter 1 or 2 usin S if the V.34 symt Enter 1 or 2 usin Display 1: ON 2: OFF Press the start k	g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3200</b> bol speed 3200 Hz g the numeric key V.34 symbol spo V.34 symbol spo ey. The value is se screen for selecting <b>mbol speed (3000</b> bol speed 3000 Hz g the numeric key V.34 symbol spo ey the numeric key V.34 symbol spo v.34 symbol spo V.34 symbol spo v.34 symbol spo v.34 symbol spo v.34 symbol spo	<pre>s is used. s to change the setting. Description eed 3429 Hz is used. eed 3429 Hz is not used. eed 3429 Hz is not used. eed 3429 Hz is not used. et. g an item, press the stop/clear key. Description eed 3200 Hz is used. eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3200 Hz is not used. et. g an item, press the stop/clear key. D Hz) s to change the setting. Description eed 3000 Hz is used. eed 3000 Hz is used. eed 3000 Hz is not used. eed 3000 Hz is not used. et.</pre>			

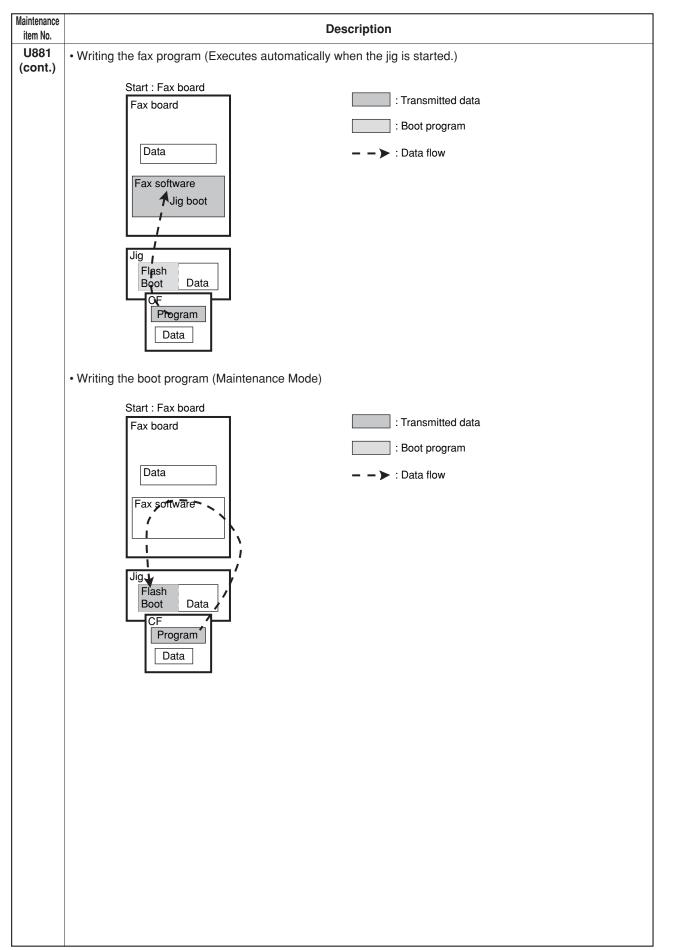
Maintenance item No.			Description	
U670 (cont.)	Sets	ing the V.34 sym	n <b>bol speed (2800 Hz)</b> ol speed 2800 Hz is used.	
(00111)			g the numeric keys to change the setting.	
		Display	Description	
		1: ON 2: OFF	V.34 symbol speed 2800 Hz is used. V.34 symbol speed 2800 Hz is not used.	
			ey. The value is set. creen for selecting an item, press the stop/clear key.	
		<b>pletion</b> is the stop clear k	key. The screen for selecting a maintenance item No. is displayed.	
U680			ooard ROM version	
	Disp		of the ROM on the fax control PCB.	
		<b>DOSE</b> In the check the ver	rsion of the ROM on the fax control PCB.	
	Met			
	1.	Press the start ke	ey. The version of the ROM on the fax control PCB is displayed.	
		n <b>pletion</b> is the stop/clear k	key. The screen for selecting a maintenance item No. is displayed.	

laintenance item No.	Description							
U881	Using the flash-memory jig							
	Description							
	Moves data or program code between the flash-memory jig and the machine's SRAM.							
	Purpose	ntual DCD, use this present use to some CDAM date from the old DCD and load it in						
	the new PCB.	ntrol PCB, use this procedure to save SRAM data from the old PCB and load it in						
	Start							
	1. Press the start key. The screen for selecting an item is displayed.							
	2. Press the appropriate item. The screen for the selected item appears.							
		ected item appears.						
	Display	Description						
	UPLOAD TO JIG:ALL	Saves all SRAM data into the jig.						
	DOWNLOAD FROM JIG: All	Loads all data saved in the jig into the machine's SRAM.						
	WRITE BOOT PROGRAM	Loads the boot program into the jig.						
	UPLOAD TO JIG:DIAL DOWNLOAD FROM JIG: DIAL	Reading one-touch/abbreviated dial information Writing one-touch/abbreviated dial information						
		whiling one-touch/abbreviated dial information						
	Saving SRAM data into the	he jig						
	Saves SRAM data into the	e jig.						
	UPLOAD TO JIG?							
		e data is saved into the jig, and the screen indicates the result.						
	<ul> <li>If the operation was successful:</li> </ul>							
	UPLOAD TO JIG							
	OK							
	If the operation failed:							
		where XXX is the error code indicating the reason for the failure.						
	UPLOAD TO JIG	See "Error Codes for Operation U881" on page 1-3-36.						
	NG XXX							
	2. Press the stop/clear ke	ey.						
	3. Turn the power off.							

Maintenance item No.	Description						
U881 (cont.)	Reading one-touch/abbreviated dial information Reads one-touch/abbreviated dial information from the SRAM into the flash memory in the jig.						
	DIAL REG. TO JIG?						
	<ol> <li>Press the start key. The data read from the SRAM into the flash memory in the jig is executed, and the screen displays the result.</li> <li>If the read operation was successful:</li> </ol>						
	DIAL REG. TO JIG OK						
	If the read operation failed:						
	DIAL REG. TO JIG NG XXX where XXX is the error code indicating the reason for the failure. See "Error Codes for Operation U881" on page 1-3-36.						
	<ol> <li>Press the stop/clear key.</li> <li>Turn the power off.</li> </ol>						
	Writing one-touch/abbreviated dial information Writes one-touch/abbreviated dial information from the flash memory in the jig into the SRAM.						
	DIAL REG. FROM JIG?						
	<ol> <li>Press the start key. The data write from the flash memory in the jig into the SRAM is executed, and the screen displays the result.</li> <li>If the write operation was successful:</li> </ol>						
	DIAL REG. FROM JIG OK						
	If the write operation failed:						
	DIAL REG. FROM JIG NG XXX where XXX is the error code indicating the reason for the failure. See "Error Codes for Operation U881" on page 1-3-36.						
	<ol> <li>Press the stop/clear key.</li> <li>Turn the power off.</li> </ol>						

item No. U881 (cont.)	Description Error Codes for Operation U881						
	Code	Meaning					
	001	Jig not present.					
	002	No CF card.					
	003	No data in CF card.					
	004	CF data is incompatible. (This error occurs if you change the file name and attempt to load the data into a different machine model.)					
	005	Bad CF data (Checksum error)					
	006	CF read error					
	007	CF write error					
	008						
	009						
	010	Jig flash-memory read error (Following SRAM read, flash-memory data failed to match SRAM data.)					
	011	Jig flash-memory write error					





Maintenance item No.	Description
U882	Setting the software switches
	<b>Description</b> Sets the software switches on the fax control PCB individually.
	<ul> <li>Purpose</li> <li>Use to change the setting when a problem such as split output of received originals occurs. Since the communication performance is largely affected, normally this setting need not be changed.</li> <li>Method <ol> <li>Press the start key.</li> </ol> </li> </ul>
	<ol> <li>Enter the desired software switch number (3 digits) using the numeric keys and press the start key.</li> <li>Use numeric keys "7" to "0" to switch each bit between 0 and 1.</li> <li>Press the start key to set the value.</li> </ol>
	<b>Completion</b> Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
	1-3-39

			Description	
List of Software Switches of Which the Setting Can Be Changed <system setting=""></system>				
	No.	Bit	Item	
	10	0	One-touch name and telephone number display on the destination check screen	
	14	5	Communication end buzzer after reception	
	16	1	Ringer frequency detection method	
	17	0	Top-bottom inversion in duplex reception	
	19	7	F code check in NW-FAX reception	
		6	Transfer of polling-received originals to PC	
		5	Resolution in TIFF files	
		4	Addition of telephone number in PC file name	
	22	3	Automatic protocol list output at busy time	
	23	21	Debug information report output format	
	24	5	Recovery of transmission mode after end of fax operation	
		3	Prohibition of split of standard size	
		21	Declaration of reception size in automatic paper source selection for fax	
		0	Declaration of reception size in setting "declaration based on the status of drawers"	
	33	76543210	Number of adjustment lines in PDF files	
	<machine of<="" td=""><td>default&gt;</td><td></td></machine>	default>		
	No.	Bit	Item	
	66	765	Selection of scanning density	
	67	654	Selection of reception mode	
	<communi No.</communi 	cation control Bit	procedure>	
			Item	
	No.	Bit	Item Automatic reception level adjustment (V. 17)	
	No.	Bit 2	Item	
	No.	Bit 2	Item           Automatic reception level adjustment (V. 17)           Automatic reception level adjustment (V. 29)	
	<b>No.</b> 101	Bit 2 1 0	Item           Automatic reception level adjustment (V. 17)           Automatic reception level adjustment (V. 29)           Automatic reception level adjustment (V. 27ter)	
	<b>No.</b> 101	Bit 2 1 0 7654	Item           Automatic reception level adjustment (V. 17)           Automatic reception level adjustment (V. 29)           Automatic reception level adjustment (V. 27ter)           Coding format in transmission	
	No. 101 106	Bit 2 1 0 7654 3210	Item           Automatic reception level adjustment (V. 17)           Automatic reception level adjustment (V. 29)           Automatic reception level adjustment (V. 27ter)           Coding format in transmission           Coding format in reception	
	No. 101 106	Bit 2 1 0 7654 3210 5	Item         Automatic reception level adjustment (V. 17)         Automatic reception level adjustment (V. 29)         Automatic reception level adjustment (V. 27ter)         Coding format in transmission         Coding format in reception         33600 bps/V34	
	No. 101 106	Bit 2 1 0 7654 3210 5 4	Item         Automatic reception level adjustment (V. 17)         Automatic reception level adjustment (V. 29)         Automatic reception level adjustment (V. 27ter)         Coding format in transmission         Coding format in reception         33600 bps/V34         31200 bps/V34	
	No. 101 106	Bit 2 1 0 7654 3210 5 4 3 3	Item         Automatic reception level adjustment (V. 17)         Automatic reception level adjustment (V. 29)         Automatic reception level adjustment (V. 27ter)         Coding format in transmission         Coding format in reception         33600 bps/V34         31200 bps/V34         28800 bps/V34	
	No. 101 106	Bit 2 1 0 7654 3210 5 4 3 2	Item         Automatic reception level adjustment (V. 17)         Automatic reception level adjustment (V. 29)         Automatic reception level adjustment (V. 27ter)         Coding format in transmission         Coding format in reception         33600 bps/V34         28800 bps/V34         26400 bps/V34	
	No. 101 106	Bit 2 1 0 7654 3210 5 4 3 2 2 1	Item         Automatic reception level adjustment (V. 17)         Automatic reception level adjustment (V. 29)         Automatic reception level adjustment (V. 27ter)         Coding format in transmission         Coding format in reception         33600 bps/V34         31200 bps/V34         28800 bps/V34         26400 bps/V34         24000 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3426400 bps/V3424000 bps/V3421600 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3421200 bps/V3426400 bps/V3424000 bps/V3421600 bps/V3419200 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3428800 bps/V3426400 bps/V3424000 bps/V3421600 bps/V3419200 bps/V3416800 bps/V3414400 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6 5 5	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3428800 bps/V3426400 bps/V3421600 bps/V3419200 bps/V3416800 bps/V3414400 bps/V3412000 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6 5 4 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 4 3 2 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3428800 bps/V3426400 bps/V3421600 bps/V3419200 bps/V3419200 bps/V3416800 bps/V3412000 bps/V349600 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 0 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 5 4 3 2 1 0 5 5 5 4 3 2 1 0 5 5 5 4 5 5 6 6 5 5 6 6 6 5 6 6 6 5 6 6 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3426400 bps/V3426400 bps/V3421600 bps/V3419200 bps/V3419200 bps/V3416800 bps/V3412000 bps/V342000 bps/V342000 bps/V342000 bps/V3412000 bps/V3431200 bps/V3431200 bps/V3421600 bps/V3421600 bps/V3421600 bps/V3412000 bps/V3431200 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 5 4 3 2 2 1 0 7 6 5 4 3 2 2 1 0 5 4 3 2 2 1 0 5 4 3 2 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 4 3 2 1 0 5 5 5 4 3 2 1 0 5 5 5 5 5 5 6 6 5 5 5 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 2 2 6 6 5 5 2 2 2 2 1 0 6 5 5 2 2 2 1 6 5 5 2 2 2 2 2 1 6 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3428800 bps/V3426400 bps/V3421600 bps/V3419200 bps/V3419200 bps/V3416800 bps/V3412000 bps/V349600 bps/V34	
	No. 101 106 107	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 1 0 7 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3426400 bps/V3426400 bps/V3421600 bps/V3419200 bps/V3416800 bps/V3412000 bps/V3412000 bps/V3421600 bps/V344800 bps/V344800 bps/V34	
	No. 101 106 107 108	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 5 4 1 0 7 6 5 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3428800 bps/V3426400 bps/V3421600 bps/V3421600 bps/V3419200 bps/V3416800 bps/V3412000 bps/V342000 bps/V3424000 bps/V34	
	No.           101           106           107           108           111	Bit 2 1 0 7654 3210 5 4 3 2 1 0 7 6 5 4 3 2 1 0 7 6 5 4 3 2 1 0 3 2 1 0 3 3 2 1 0 3 3 2 1 0 3 3 3 3 3 3 3 3 3 3 3 3 3	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3426400 bps/V3426400 bps/V3421600 bps/V3419200 bps/V3416800 bps/V3412000 bps/V3412000 bps/V342000 bps/V345800 bps/V341800 bps/V341800 bps/V341200 bps/V341200 bps/V341200 bps/V341200 bps/V347200 bps/V347200 bps/V342400 bps/V347200 bps/V347200 bps/V34FSK detection in V.8	
	No.           101           106           107           108           111	Bit           2           1           0           7654           3210           5           4           3           2           1           0           7           6           5           4           3           2           1           0           7           6           5           4           3           2           1           0           3           6           3           6	ItemAutomatic reception level adjustment (V. 17)Automatic reception level adjustment (V. 29)Automatic reception level adjustment (V. 27ter)Coding format in transmissionCoding format in reception33600 bps/V3431200 bps/V3428800 bps/V3426400 bps/V3424000 bps/V3421600 bps/V3419200 bps/V3419200 bps/V3412000 bps/V3412000 bps/V3424000 bps/V3412000 bps/V3412000 bps/V3412000 bps/V345600 bps/V3424000 bps/V347200 bps/V347200 bps/V3424000 bps/V34FSK detection in V.8CNG transmission stop condition	

item No.	Description				
U882 cont.)		vitches of Wh cation time set	ich the Setting Can Be Changed ting>		
-	No.	Bit	Item		
	123	76543210	T3 timeout setting		
	124	76543210	T4 timeout setting (automatic equipment)		
	125	76543210	T5 timeout setting		
	130	76543210	Time before transmission of CNG (1100 Hz) signal		
	133	76543210	T0 timeout setting (manual equipment)		
	134	7	Phase C timeout in ECM reception		
	136	76543210	Timeout 1 in countermeasures against echo		
	137	76543210	Timeout 2 in countermeasures against echo		
	138	76543210	Timeout for FSK detection start in V.8		
	<modem se<="" td=""><td>tting</td><td></td></modem>	tting			
	No.	Bit	Item		
	155	76543210	RTH offset (lower byte)		
	156	76543210	RTH offset (upper byte)		
	<ncu setti<="" td=""><td>ng&gt; Bit</td><td>ltows</td></ncu>	ng> Bit	ltows		
	<b>No.</b> 161	7654	Item		
	161	7654	Dial tone/busy tone detection pattern		
	102	1	Busy tone detection pattern Busy tone detection in automatic FAX/TEL switching		
	165	76543210			
	165	76543210	Access code registration for connection to PSTN FAX/TEL automatic switching ringback tone ON/OFF cycle		
	167	10	Pseudo-ringer duty ratio		
	<calling tir<br="">No.</calling>	ne setting> Bit	Item		
	174	76543210	DTMF signal transmission time		
	175	76543210	DTMF signal pause time		
	182	76543210	Ringer detection cycle (minimum)		
	183	76543210	Ringer detection cycle (maximum)		
	184	76543210	Ringer ON time detection		
	185	76543210	Ringer OFF time detection		
	186	76543210	Ringer OFF non-detection time		
	188	76543210	Dial tone detection time (continuous tone)		
	189	76543210	Allowable dial tone interruption time		
	192	76543210	Time for transmitting selection signal after closing the DC circuit		
	195	76543210	Ringer frequency detection invalid time		
	<experime No.</experime 	ntal modem se Bit	Item		
	596	76543210	Experimental tone detector level judgment (for CNG only: THRESH L) lower part		
	597	76543210	Experimental tone detector level judgment (for CNG only: THRESH L) upper part		
	598	76543210	Experimental tone detector level judgment (for CNG only: THRESH L) upper part Experimental tone detector level judgment (for CNG only: THRESH U) lower part		
		76543210	Experimental tone detector level judgment (for CNG only: THRESH 0) lower part Experimental tone detector level judgment (for CNG only: THRESH U) upper part		
	599				

## 3DB

nance No.	Description
894	Performing board test
	<b>Description</b> Performs tests on the SRAM, DRAM (image memory, bitmap memory) and optional memory on the fax control PCB.
	<b>Purpose</b> Used to check if reading and writing are performed correctly in respective installed memories.
	<ul> <li>Start</li> <li>Press the start key. The screen for selecting an item is displayed.</li> <li>Press the appropriate item. The test executes.</li> </ul>
	Display Description
	BOARD MEMORY       Performs tests on SRAM and DRAM.         BOARD OP. MEM       Performs tests on optional memory.
	Performing tests on SRAM and DRAM 1. Press the start key. The screen displays the test results as follows. • When the test result is OK:
	TEST MEMORY OK
	If the test result is NG:
	TEST MEMORY
	NG DRAM IMG 0x*****
	DRAM IMG: DRAM (image memory) error DRAM B.M: DRAM (bitmap memory) error SRAM: SRAM error
	To return to the screen for selecting an item, press the stop/clear key.
	<ul> <li>Performing tests on optional memory</li> <li>1. Press the start key. The screen displays the test results as follows.</li> <li>• When the test result is OK:</li> </ul>
	TEST OPTION MEMORY OK
	If the test result is NG:
	TEST OPTION MEMORY         NG DRAM B.M 0x*****         ******: address
	If the test result is NG (memory is not installed):
	TEST OPTION MEMORY NG DRAM B.M
	NG DRAM B.M         To return to the screen for selecting an item, press the stop/clear key.         Completion         If the test result is OK, press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.         If the test result is NG, reset by turning the main switch off and on.

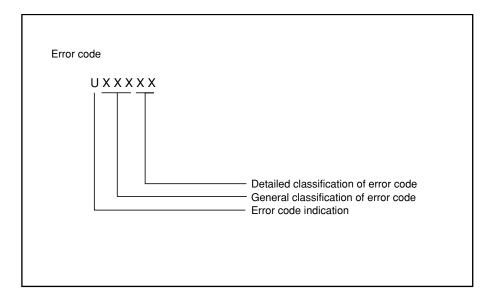
Maintenance	Description
item No. U898	Setting the ports for maintenance mode
0050	Description
	Sets the ports targeted for the maintenance mode when a multi port (optional only in Japan) is installed. This mode need not be set particularly.
U992	Checking or clearing the printer/fax count
	<b>Description</b> Displays, clears or changes the print count of the printer or fax when the printer board or facsimile kit is installed.
	<b>Purpose</b> To check the condition of use of the printer or fax.
	<b>Method</b> Press the start key. The print count of the printer or fax is displayed.
	Setting
	<ol> <li>Press the appropriate item.</li> <li>Enter a six-digit numerical value using the numeric keys. To clear both of the printer and fax counts, press the reset key.</li> <li>Press the start key. The count is set.</li> </ol>
	Completion
	Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

## 1-4-1 Error codes

#### (1) Error code

Error codes are listed on the communication reports, activity report, etc. The codes consist of an error code indication "U" followed by a 5-digit number. (Error codes for V34 communication errors start with an "E" indication, followed by five digits.)

The upper three of the five digits indicate general classification of the error and its cause, while the lower two indicate the detailed classification. Items for which detailed classification is not necessary have "00" as the last two digits.



## (2) Table of general classification

Error code	Description
U00000	No response or busy after the set number of redials.
U00100	Transmission was interrupted by a press of the stop/clear key.
U00200	Reception was interrupted by a press of the stop/clear key.
U00300	Recording paper on the destination unit has run out during transmission.
U004XX	A connection was made but interrupted during handshake with the receiver unit (refer to page
	4-4 "U004XX error code table").
U00500	Multiple communication was interrupted and call was not made on destination units after
	interruption.
U006XX	Communication was interrupted because of a machine problem (refer to page 1-4-5 "U006XX
	error code table").
U00700	Communication was interrupted because of a problem in the destination unit.
U008XX	A page transmission error occurred in G3 mode (refer to page 1-4-5 "U008XX error code table
U009XX	A page reception error occurred in G3 mode (refer to page 1-4-5 "U009XX error code table").
U010XX	Transmission in G3 mode was interrupted by a signal error (refer to page 1-4-6 "U010XX error
	code table").
U011XX	Reception in G3 mode was interrupted by a signal error (refer to page 1-4-8 "U011XX error co
	table").
U01400	An invalid one-touch key was specified during communication.
U01500	A communication error occurred when calling in V.8 mode.
U01600	A communication error occurred when called in V.8 mode.
U017XX	A communication error occurred before starting T.30 protocol during transmission in V.34 mod
	(refer to page 1-4-10 "U017XX error code table").
U018XX	A communication error occurred before starting T.30 protocol during reception in V.34 mode
	(refer to page 1-4-10 "U018XX error code table").
U02000	Relay broadcast was refused by a relay station because of a mismatch in permit ID number an
	permit telephone number when a relay command was issued.
U02100	A relay command failed because the destination unit (relay station) had no relay broadcast
	capability.
U02200	A relay command from a command station failed because a telephone number that was not
	registered in the relay station was specified. Or, relay broadcast was requested to a relay stati
	but failed because a telephone number that was not registered in the relay station was specific
	Or, F-code based relay broadcast transmission failed because the data registered in the F-code
	relay box was deleted.
U023XX	Receiving station information was not normally received in reception of a relay command (refe
	to page 1-4-10 "U023XX error code table").
U02400	An interoffice F-code based relay transmission was interrupted because of a mismatch in the
	specified relay box number.
U03000	No document was present in the destination unit when polling reception started.
U03100	In reverse polling, although no original was set in the destination unit, transmission was
	complete.
U03200	In confidential polling reception, data was not accumulated in the specified box in the destinati
	unit. Or, in interoffice F-code based bulletin board reception, data was not stored in the box
	specified by the destination unit.
U03300	In polling reception from a unit of our make, operation was interrupted due to a mismatch in
	permit ID or telephone number. Or, in interoffice F-code based bulletin board reception,
	operation was interrupted due to a mismatch in permit ID or telephone number.
U03400	Polling reception was interrupted because of a mismatch in individual numbers (destination un
·	is either of our make or by another manufacturer).
	, ,

Error code	Description
U03500	In confidential polling reception, the specified confidential box No. was not registered in the
	destination. Or, in interoffice F-code based bulletin board reception, the specified F-code
	confidential box number was not registered in the destination unit. Or, the destination was being
	accessed.
U03600	Confidential polling reception was interrupted because of a mismatch in specified confidential
	box No. Or, an interoffice F-code based bulletin board reception was interrupted because of a
	mismatch in the specified F-code confidential box number.
U03700	Confidential polling reception failed because the destination unit had no confidential polling
	transmission capability or data was not accumulated in any box in the destination unit. Or,
	interoffice F-code based bulletin board reception failed because the destination unit had no F-
	code based bulletin board transmission capability, or data was not stored in any F-code
	confidential box in the destination unit.
U04000	The confidential box specified for confidential transmission was not registered in the destination
	unit. Or, in interoffice F-code based transmission mode, the specified F-code box number was
	not registered in the destination unit. Or, the destination was being accessed.
U04100	Confidential transmission failed because the destination unit had no confidential capability. Or,
	F-code based transmission failed because the destination unit had no F-code based reception
	capability.
U04200	In encrypted transmission, the specified encryption box was not registered in the destination unit
U04300	Encrypted transmission failed because the destination unit had no encrypted communication
	capability.
U044XX	Communication was interrupted because of an encryption key error during encrypted
	transmission (refer to page 1-4-10 "U044XX error code table").
U04500	Encrypted reception was interrupted because of a mismatch in encryption keys.
U05000	In transmission with a specified number, the set number of originals was different from the
	number of transmitted originals.
U05100	Password check transmission was interrupted because the permit ID did not agree.
U05200	Password check reception was interrupted because the permit ID did not agree.
U05300	Destination unit in password check reception mode did not receive data because the permit ID
	did not agree.
U09000	G3 communication was attempted but failed because the destination unit was a G2 machine.
U12000	Relay broadcast was requested from a command station but memory overflowed during
	reception. Or, in F-code based relay reception, memory overflowed.
U12100	Relay was commanded but memory overflowed in the destination unit (relay station).
U14000	Memory overflowed during confidential reception. Or, in F-code based confidential reception,
	memory overflowed.
U14100	Memory overflowed in the destination unit during confidential transmission. Or, in interoffice F-
	code based transmission, memory overflowed in the destination unit.
U19000	Memory overflowed during memory reception.
U19100	Memory overflowed in the destination unit during transmission.
U19200	Memory transmission failed because a decoding error occurred.
U19300	Transmission failed because an error occurred during JBIG encoding.
U19400	Reception failed because an error occurred during JBIG decoding.

## (2-1) U004XX error code table: Interrupted phase B

Error code	Description
U00420	A relay request was received from the host center but interrupted because of a mismatch in permit ID or telephone number.
U00421	F-code based relay reception was interrupted because of a mismatch in the specified F-code relay box number.
U00430	Polling request (confidential or reverse) was received but interrupted because of a mismatch in permit number. Or, F-code based bulletin board transmission request was received but interrupted because of a mismatch in permit ID in the transmitting unit.
U00431	Confidential polling transmission was interrupted because the specified confidential box No. was not registered. Or, an F-code based bulletin board transmission was interrupted because the specified F-code confidential box was not registered.
U00432	Confidential polling transmission was interrupted because of a mismatch in confidential box ID number. Or, an F-code based bulletin board transmission was interrupted because of a mismatch in F-code confidential box numbers.
U00433	Confidential polling request was received but data was not present in the confidential box. Or, F- code based bulletin board transmission request was received but data was not present in the F- code confidential box.
U00434	Confidential polling request was received but interrupted because the specified confidential box No. was intended for encryption.
U00435	Confidential polling request was received but interrupted because the specified confidential box was being accessed. Or, F-code based bulletin board transmission request was received but interrupted because the specified F-code confidential box was being accessed.
U00440	Confidential reception was interrupted because the specified confidential box No. was not registered. Or, F-code based confidential reception or F-code based relay reception was interrupted because the specified F-code box was not registered. Or, F-code based confidential reception or F-code relay command reception was interrupted because the specified F-code box No. was being accessed.
U00441	Confidential reception was interrupted because the specified confidential box No. was intended for encryption.
U00450	The destination unit in password check transmission mode interrupted transmission because of a mismatch in permit ID.
U00460	Encrypted reception was interrupted because the specified encryption box number was not registered. Or, encrypted reception request was received but interrupted because the specified encryption box was being accessed.
U00462	Encrypted reception was interrupted because the encryption key for the specified encryption box was not registered.

#### (2-2) U006XX error code table: Problems with the unit

Error code	Description
U00600	The document processor cover is open.
U00601	Document jam or the document length exceeds the maximum.
U00602	Image scanning section problem.
U00603	No document feed.
U00604	Document length exceeded the limit of the bitmap memory capacity.
U00610	Recording section cover is open.
U00611	Recording paper JAM
U00613	Image writing section problem
U00614	Nearly empty of recording paper
U00615	Empty of recording paper
U00620	Copier fixing unit problem
U00622	Copier drive motor problem
U00655	CTS was not activated after RTS due to a modem error.
U00656	Data was not transmitted after CTS was activated due to a modem error.
U00670	Power was cut off during communication.
U00677	There was no file to transmit in the memory transmission mode.
U00690	System error.

## (2-3) U008XX error code table: Page transmission error

Error code	Description
U00800	A page transmission error occurred because of reception of a RTN or PIN signal.
U00810	A page transmission error reoccurred after retry of transmission in the ECM mode.

## (2-4) U009XX error code table: Page reception error

Error code	Description
U00900	An RTN or PIN signal was transmitted because of a page reception error.
U00910	A page reception error remained after retry of transmission in the ECM mode.

## (2-5) U010XX error code table: G3 transmission

Error code	Description
U01000	An FTT signal was received for a set number of times after TCF signal transmission at 2400 bps Or, an RTN signal was received in response to a Q signal (excluding EOP) after transmission at 2400 bps.
U01001	Function of the unit differs from that indicated by a DIS signal.
U01010	No relevant signal was received after transmission of a DNL (MPS or EOM) signal, and the
	preset number of command retransfers was exceeded (between units of our make).
U01011	No relevant signal was received after transmission of a DCS, TCF signal, and the preset numbe
	of command retransfers was exceeded.
U01012	No relevant signal was received after transmission of an NSS1, NSS2 (TCF) signal, and the
	preset number of command retransfers was exceeded (between units of our make).
U01013	No relevant signal was received after transmission of an NSS3, TCF signal, and the preset
	number of command retransfers was exceeded (between units of our make).
U01014	No relevant signal was received after transmission of an MPS signal, and the preset number of
	command retransfers was exceeded.
U01015	No relevant signal was received after transmission of an EOM signal, and the preset number of
	command retransfers was exceeded.
U01016	An MCF signal was received but no DIS signal was received after transmission of an EOM
	signal, and T1 timeout was detected.
U01017	No relevant signal was received after transmission of an EOP signal, and the preset number of
	command retransfers was exceeded.
U01018	No relevant signal was received after transmission of a PRI-EOP signal, and the preset number
	of command retransfers was exceeded.
U01019	No relevant signal was received after transmission of a CNC signal, and the preset number of
	command retransfers was exceeded (between units of our make).
U01020	No relevant signal was received after transmission of a CTC signal, and the preset number of
	command retransfers was exceeded (ECM).
U01021	No relevant signal was received after transmission of an EOR.Q signal, and the preset number
	of command retransfers was exceeded (ECM).
U01022	No relevant signal was received after transmission of an RR signal, and the preset number of
	command retransfers was exceeded (ECM).
U01023	No relevant signal was received after transmission of a PSS.NULL signal, and the preset number
	of command retransfers was exceeded (ECM).
U01024	No relevant signal was received after transmission of a PSS.MPS signal, and the preset number
	of command retransfers was exceeded (ECM).
U01025	No relevant signal was received after transmission of a PPS.EOM signal, and the preset numbe
	of command retransfers was exceeded (ECM).
U01026	No relevant signal was received after transmission of a PPS.EOP signal, and the preset number
	of command retransfers was exceeded (ECM).
U01027	No relevant signal was received after transmission of a PPS.PRI-EOP signal, and the preset
	number of command retransfers was exceeded (ECM).
U01028	T5 time-out was detected during ECM transmission (ECM).
U01040	A DCN or other inappropriate signal was received during standby for DIS signal reception.
U01041	A DCN signal was received after transmission of a DNL (MPS or EOM) signal (between units of
	our make).
U01042	A DCN signal was received after transmission of a DCS, TCF signal.
U01043	A DCN signal was received after transmission of an NSS1, NSS2 (TCF) signal (between units o
	our make).
U01044	A DCN signal was received after transmission of an NSS3, TCF signal (between units of our
	make).

Error code	Description
U01045	A DCN or other inappropriate signal was received after transmission of an MPS signal.
U01046	A DCN or other inappropriate signal was received after transmission of an EOM signal.
U01047	A DCN or other inappropriate signal was received after transmission of an EOP signal.
U01048	A DCN signal was received after transmission of a PRI-EOP signal.
U01049	A DCN signal was received after transmission of a CNC signal (between units of our make).
U01050	A DCN signal was received after transmission of a CTC signal (ECM).
U01051	A DCN signal was received after transmission of an EOR.Q signal (ECM).
U01052	A DCN signal was received after transmission of an RR signal (ECM).
U01053	A DCN signal was received after transmission of a PPS.NULL signal (ECM).
U01054	A DCN signal was received after transmission of a PPS.MPS signal (ECM).
U01055	A DCN signal was received after transmission of a PPS.EOM signal (ECM).
U01056	A DCN signal was received after transmission of a PPS.EOP signal (ECM).
U01057	A DCN signal was received after transmission of a PPS.PRI-EOP signal (ECM).
U01070	Polarity reversal was detected during handshake.
U01071	Polarity reversal was detected during message transmission.
U01072	A break in loop current was detected during transmission.
U01073	During reverse polling in V.34 mode at the receiver unit, a CM signal was not detected when
	transmitting after reception.
U01080	A PIP signal was received after transmission of a PPS.NULL signal.
U01091	During transmission in V.34 mode, communication was interrupted because a PPR signal was
	received over 10 times even after reducing the communication speed to the minimum with the
	symbol speed maintained at the level of connection.
U01092	During transmission in V.34 mode, communication was interrupted because of an impossible
	combination of the symbol speed and communication speed.

## (2-6) U011XX error code table: G3 reception

Error code	Description
U01100	Function of the unit differs from that indicated by a DCS signal.
U01101	Function of the unit (excl. communication mode select) differs from that indicated by an NSS
	signal.
U01102	A DTC (NSC) signal was received when no transmission data was in the unit.
U01110	No response after transmission of a DIS signal.
U01111	No response after transmission of a DTC (NSC) signal.
U01112	No training reception after reception of a DCS or NSS signal.
U01113	No response after transmission of an FTT signal.
U01114	No message reception after transmission of a CFR signal.
U01115	No message reception after transmission of an MCF signal.
U01116	No message reception after transmission of a PPR signal.
U01117	No message reception after transmission of a CTR signal.
U01118	No message reception after transmission of an ERR signal.
U01119	No further signals were received after reception of a message.
U01120	No response after transmission of an MCF signal.
U01121	No response after transmission of an RTP signal.
U01122	No response after transmission of an RTN signal.
U01123	No response after transmission of a PIP signal.
U01124	No response after transmission of a PIN signal.
U01125	No response after transmission of a CNS signal (between units of our make).
U01126	No response after transmission of a PPR signal (ECM).
U01127	No response after transmission of an ERR signal (ECM).
U01128	No response after transmission of an RNR signal (ECM).
U01129	No response after transmission of an SPA signal (short protocol).
U01140	A DCN signal was received after transmission of a DIS signal.
U01141	A DCN signal was received after transmission of a DTC signal.
U01142	A DCN signal was received after transmission of a DCS or NSS signal.
U01143	A DCN signal was received after transmission of an FTT signal.
U01144	A DCN signal was received after transmission of a CFR signal.
U01145	A DCN signal was received after reception of a message.
U01146	A DCN signal was received after transmission of an MCF signal (interoffice communication aft
	reception of an MPS, EOM signal or confidential interoffice communication).
U01147	A DCN signal was received after transmission of an RTP signal.
U01148	A DCN signal was received after transmission of an RTN signal.
U01149	A DCN signal was received after transmission of a PIP signal.
U01150	A DCN signal was received after transmission of a PIN signal.
U01151	A DCN signal was received after transmission of a PPR signal (ECM).
U01152	A DCN signal was received after transmission of a CTR signal (ECM).
U01153	A DCN signal was received after transmission of an ERR signal (ECM).
U01154	A DCN signal was received after transmission of an RNR signal (ECM).
U01155	A DCN signal was received after transmission of an SPA signal (short protocol).
U01160	During message reception, transmission time exceeded the maximum transmission time per li
U01161	Number of error lines exceeded limits during message reception.
U01162	A break in loop current was detected during message reception.
U01163	Polarity reversal was detected during message reception.
U01164	One page length exceeded the specified length during message reception.
U01170	A decoding error occurred during MMR message reception.
U01172	During reverse polling in V.34 mode at the transmitting unit, a JM signal was not detected after
	transmission of a CM signal when receiving after transmission.

Error code	Description
U01191	Communication was interrupted because an error occurred during an image data reception sequence in the V.34 mode.
U01199	A DIS signal with different FIF was received after transmission of a DIS signal.

#### (2-7) U017XX error code table: V.34 transmission

Error code	Description	
U01700	A communication error occurred in phase 2 (line probing).	
U01720	A communication error occurred in phase 4 (modem parameter exchange).	
U01721	Operation was interrupted due to the absence of a common communication speed between	
	units.	

- U01700: A communication error that occurs at the transmitting unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/A/Abar (B/Bbar, for polling transmission)/INFOh was not detected.
- U01720: A communication error that occurs at the transmitting unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
- U01721: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange; 1) a DCN signal was received from the destination unit, and the line was cut; or 2) a DIS (NSF, CSI) signal was received from the destination unit and, in response to the signal, the unit transmitted a DCN signal, and the line was cut.

#### (2-8) U018XX error code table: V.34 reception

Error code	Description	
U01800	A communication error occurred in phase 2 (line probing).	
U01810	A communication error occurred in phase 3 (primary channel equivalent device training).	
U01820	A communication error occurred in phase 4 (modem parameter exchange).	
U01821	Operation was interrupted due to the absence of a common communication speed between	
	units.	

- U01800: A communication error that occurs at the receiver unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/B/Bbar (A/Abar, for polling reception)/probing tone was not detected.
- U01810: A communication error that occurs at the receiver unit in phase 3 (primary channel equivalent device training). For example, S/Sbar/PP/TRN was not detected.
- U01820: A communication error that occurs at the receiver unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
- U01821: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange, a DCN signal was transmitted to the destination unit and the line was cut.

#### (2-9) U023XX error code table: Relay command abnormal reception

Error code	Description	
U02303	Timeout was detected before a correct DNL signal was received.	
U02304	A signal other than MPS or EOM signal was received after a DNL signal was received.	

#### (2-10) U044XX error code table: Encrypted transmission

Error code	Description	
U04400	Encrypted transmission was interrupted because encryption keys did not agree.	
U04401	Calling failed during encrypted transmission because the encryption key was not registered.	

# 1-5-1 Self-diagnosis

## (1) Self diagnostic codes

Code	Contents	Remarks		
Code	Contents	Causes	Check procedures/corrective measures	
C0030	<ul> <li>Fax control PCB system problem</li> <li>Processing with the fax software was disabled due to a hardware or software problem.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C0070	<ul> <li>Fax control PCB incompatibility detection problem*</li> <li>Fax software is not compatible with MMI software.</li> </ul>	MMI software version is earlier.	Check the version of MMI software and upgrade it to a version that accommodates the fax function.	
C0130	<ul> <li>Fax control PCB software switch checksum error</li> <li>A checksum error occurred with the software switch value stored in the flash ROM on the fax control PCB.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C0280	<ul> <li>Communication problem between the fax control PCB and main PCB</li> <li>Communication between the fax control PCB and the main PCB of the machine cannot be performed</li> </ul>	Poor contact in the connector terminals.	Check the connection of connector YC1 or the fax control PCB and CN44 on the main PCB, and the continuity across the connector terminals. Repair or replace if necessary.	
	normally.	Defective fax control PCB or main PCB.	Replace the fax control PCB or main PCB and check for correct operation.	
C0820	<ul> <li>Fax control PCB CG ROM checksum error</li> <li>A checksum error occurred with the CG ROM data in the Flash ROM on the fax control PCB.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C0830	<ul> <li>Flash ROM program area checksum error</li> <li>A checksum error occurred with the program in the Flash ROM on the fax control PCB.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C0870	<ul> <li>Fax control PCB to main PCB high- capacity data transfer problem*</li> <li>High-capacity data transfer between the fax control PCB and the main PCB of the machine was not normally</li> </ul>	Poor contact in the connector terminals.	Check the connection of connector YC1 or the fax control PCB and CN44 on the mair PCB, and the continuity across the connector terminals. Repair or replace if necessary.	
	performed even if the data transfer was retried the specified times.	Defective fax control PCB or main PCB.	Replace the fax control PCB or main PCB and check for correct operation.	

Code	Contents	Remarks		
Coue	Contents	Causes	Check procedures/corrective measures	
C0880	<ul> <li>Fax control PCB program archive problem*</li> <li>When power is turned on, the compressed program in the Flash ROM on the fax control PCB was not successfully decompressed.</li> </ul>	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	
C0890	successfully decompressed. Fax control PCB CG font archive problem* • When power is turned on, the compressed CG font in the Flash ROM on the fax control PCB was not successfully decompressed.	Defective fax con- trol PCB.	Replace the fax control PCB and check for correct operation.	

# 1-5-2 Troubleshooting

Contents	Remarks		
Contents	Causes	Corrective measures	
An error message is displayed on the computer screen while transmission is performed.			
"Network error has occurred."	A connection error of scanner NIC occurred while data was transmitted.	Connect the scanner NIC properly.	
"Communication time out has occurred."	A network cable was disconnected while data was transmitted.	Connect the network cables of the computer and the machine properly.	
"FAX connection has been cut."	Transmission failed because data amount (traffic) on the network was too large.	Retransmit after a while. Contact the network administrator for check.	
"FAX connection could not be made for the following possible reasons:	The fax system is not installed.	Install the fax system.	
*The FAX main unit isn't turned on. *Network FAX address is wrong. *A fault has occurred at the FAX machine."	Self dignostic code C0280 occurred.	Check the connection of the flat cable.	
	The fax software is not compatible with the NW-FAX functions.	Upgrade the software.	
	The main PCB of the machine is not compatible with the NW-FAX functions.	Replace the main PCB.	
	NIC is being initialized.	Retransmit after a while.	
	Self dignostic code of NIC occurred.	RTC memory is not mounted or connection is not proper. Check the connection.	
	A network cable is disconnected.	Connect the network cables properly.	
	The main switch is OFF.	Turn ON the main switch.	
	The IP address or host name is not correct.	Check the IP address and host name registered in the FAX Driver and those registered in the scanner NIC.	

Contents	Remarks		
Contents	Causes	Corrective measures	
"The FAX is in use."	Copying is being performed. Fax printing is being performed. Fax setting is being performed. Received originals are being transmitted. Remote diagnosis is being performed. Printing interrupt occurs during transmission. Network scanner is being used. Maintenance mode is being performed.	Retransmit after the cause described left is cleared.	
"FAX memory is full."	Fax memory became full while transmission was performed.	Secure memory area. (Delete data in the memory.) Add memory. Retransmit with smaller resolution. Divide originals to be transmitted.	
"The number of FAX transmission reservations has reached maximum."	NW-FAX transmission was tried when 50 items of fax transmission was reserved.	After a while (after the number of the reserved items is reduced), retransmit.	
"The FAX cannot be used."	The main switch is OFF when reception into memory is set.	Turn on the main switch.	
	Fax is being reset.	Retransmit after clearing reset.	
"The job has been interrupted at the FAX operation panel."	The interrupt key was pressed while transmission was performed.	Retransmit after interrupt was cleared.	
<b>Mail notification related</b> Transmission report is not delivered to clients.	NW-FAX transmission of report output in the fax initial setting is OFF or to be performed in a special condition.	If the setting is OFF, no report is returned regardless of fax communication result. If a special condition is set, a report is returned when a special event such as fax communication error or broadcast transmission occurs. If a transmission report is needed, turn the setting ON.	
	A client mail address is not registered in the FAX Driver.	Register the client mail address in the FAX Driver initial setting.	
	A client mail address registered in the FAX Driver is not correct.	Check the client mail address.	

Constants	Remarks		
Contents	Causes	Corrective measures	
Mail notification related Transmission report is not delivered to clients.	The mail address of the fax administrator or the scanner administrator is not registered.	Register the mail address of the fax administrator or the scanner administrator.	
	The IP address of mail server is not registered in the scanner initial setting.	Register the IP address and host name of mail server.	
	The IP address or host name of mail server registered in the scanner initial setting is not correct.	Check the registered IP address and host name of mail server.	
	Accounting of a client mail address is not performed.	Contact the administrator for check.	
	The mail server is down.	Check the mail server.	
	The client mail software has not started.	Start the mail software.	
Activity report, restricted access report, power failure report or backup RAM error report is not delivered to the administrator.	NW-FAX reception is OFF in the fax initial setting.	Turn the NW-FAX reception setting ON.	
	Scanner administrator mail address or fax administrator mail address is not registered.	Register the scanner administrator mail address or the fax administrator mail address.	
	Scanner administrator mail address or fax administrator mail address is not correct.	Check the administrator mail address.	
	The IP address or host name of mail server is not registered in the scanner initial setting.	Register the IP address and host name of mail server.	

Contonto		Remarks
Contents	Causes	Corrective measures
Activity report, restricted access report, power failure report or backup RAM error report is not delivered to the administrator.	The IP address or host name registered in the scanner initial setting is not correct.	Check the registered IP address and host name of mail server.
	Accounting of an administrator mail address is not performed in the mail server.	Contact the administrator for check.
	The mail server is down.	Check the mail server.
	The administrator mail software has not started.	Start the mail software.
Received originals are not stored. (including reception report)	NW-FAX reception setting is OFF.	Turn NW-FAX reception in the fax initial setting ON.
	The IP address or host name of storage destination computer is not correct.	Check the IP address and host name registered in the fax and those in the storage destination computer.
	The storage destination computer has not started.	Start the storage destination computer and start the Scanner File Utility.
	Transmission failed because data amount (traffic) on the network was too large.	Contact the network administrator for check.
	Copying is being performed. Fax printing is being performed. Fax setting is being performed. Received originals are being transmitted. Printing interrupt occurs during transmission. Network scanner is being used.	Perform automatic retransmission after the cause described left is cleared.

Contents	Remarks		
Contents	Causes	Corrective measures	
Received originals are not stored. (including reception report)	The Scanner File Utility of the storage destination computer has not started.	Start the storage destination computer and start the Scanner File Utility.	
	The network cable is disconnected.	Connect the network cable properly.	
	The reception folder number is not correct.	Use the reception folder number registered in fax the same as the folder number set in the Scanner File Utility.	
	The hard disk drive in the storage destination computer is full.	Contact the administrator for check.	
	The Scanner File Utility version does not match.	Upgrade the Scanner File Utility to Ver. 3.X or later.	
	The reception report of report output in the fax initial setting is OFF or to be performed in a special condition.	If the setting is OFF, no report is transmitted regardless of fax communication result. If a special condition is set, a report is transmitted when a special event such as fax communication error occurs. If a reception report is needed, turn the setting ON.	
Address book related When a CSV file is imported, leading "0" of fax numbers is deleted.	If a CSV file is edited with Excel, since fax numbers are processed as numerical values, leading "0" is automatically deleted.	Edit the CSV file with a text editor.	
When a CSV file is imported, the first line is not imported.	The first line of CSV files is processed as header.	Input item names to indicate the description of each column in the first line of CSV files.	
List items are not displayed.	The display width is changed by dragging column header in the list. If the display width is 0, the item is not displayed.	Select the position between the column header items and drag so that the item is displayed.	
When an address is deleted, the group is deleted.	If all addresses of a group are deleted, the group is also deleted.	Delete the group. (Addresses of group member are not deleted.)	

Contents	Remarks	
Contents	Causes	Corrective measures
The address book cannot be started.	If the address book finishes abnormally because of any reason, the address book information may remain.	Restart the computer and start the address book.
The toolbar is not displayed.	If "Toolbar" in the "View" menu is Off, the toolbar is not displayed.	Turn the "Toolbar" setting of the "View" menu On.
Although the "Toolbar" setting in the "View" menu is On, the toolbar is not displayed .	The toolbar can be docked and placed outside the address book.	Check to see if the toolbar is placed outside the address book.

## **1-6-1** Updating the firmware

#### (1) Updating the firmware on the fax control PCB (Flash ROM)

Perform the steps below when updating the firmware in the Flash ROM on the fax control PCB.

Firmware updating requires the following tools: Flash tool assembly (P/N 3596801\*) Control ROM IC1 (P/N 3DB6801\*) Control ROM IC2 (P/N 3DB6802\*) Control ROM IC3 (P/N 3DB6803\*) Control ROM IC4 (P/N 3DB6804\*)

#### Caution:

• Turn the main switch off and disconnect the power plug from the wall outlet before disconnecting or inserting connectors.

#### <Procedure>

1. Remove 13 screws and take off the rear cover.

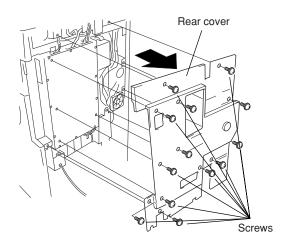


Figure 1-6-1

2. If the printing system is installed, remove the 2 screws and pull the printing system out of the controller box.

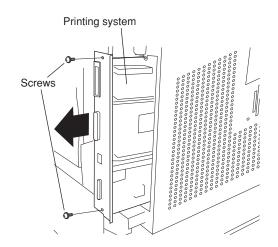


Figure 1-6-2

- 3DB
- 3. Remove 13 screws and take off the controller-box cover.

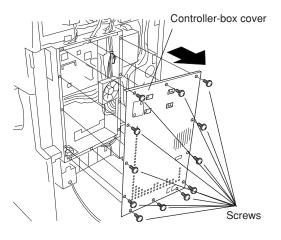


Figure 1-6-3

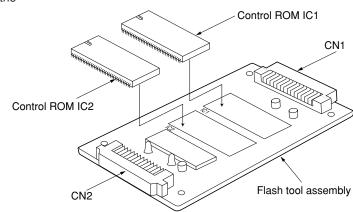


Figure 1-6-4

Fax control PCB



4. Fit control ROM IC1 and control ROM IC2 to the flash tool assembly.

5. Insert connector CN1 (the one furthest from the LEDs) on the flash tool assembly into connector YC5 on the fax control PCB.

- 6. Connect the power plug into the wall outlet. Upgrading of control ROM IC1 and 2 starts and LED on the flash tool assembly flashes. The LED remains on when upgrading is complete.
- 7. Disconnect the power plug from the wall outlet.
- 8. Remove the flash tool assembly from the fax control PCB.
- 9. Remove control ROM IC1 and control ROM IC2 from the flash tool assembly, and then fit control ROM IC3 and control ROM IC4 to the flash tool assembly.
- 10. Insert connector CN1 (the one furthest from the LEDs) on the flash tool assembly into connector YC5 on the fax control PCB.
- 11. Connect the power plug into the wall outlet. Upgrading of control ROM IC3 and 4 starts and LED on the flash tool assembly flashes. The LED remains on when upgrading is complete.
- 12. Disconnect the power plug from the wall outlet.
- 13. Remove the flash tool assembly from the fax control PCB.
- 14. Refit the fax controller-box cover and rear cover.

#### 3DB

#### (2) Updating the firmware on the fax control PCB (Compact Flash card)

To carry out a Flash ROM firmware update of the fax control PCB, follow the steps below.

This firmware update requires the following tools: CF jig (P/N 3CM6803\*) Compact Flash card (Products manufactured by SANDISK are recommended.)

#### Caution:

- Turn the main power switch off and disconnect the power plug from the wall outlet before disconnecting or inserting connectors.
- When writing data to Compact Flash card from a computer, be sure to format it in advance. (For formatting, insert a Compact Flash card and select a drive.)
- For a desktop computer, connect a Compact Flash card reader/writer to it. For a notebook computer, use a PC card adapter or a connection portion only for Compact Flash card.

#### <Procedure>

- 1. Check the current ROM version using maintenance item U680.
- 2. Turn the main switch off and disconnect the power plug from the wall outlet.
- 3. Remove the rear cover and the control-box cover. (Refer to "(1) Updating the firmware on the fax control PCB (Flash ROM)", Steps 1 to 3, above.)
- 4. Insert a Compact Flash card containing the boot program into the CF jig. Be sure that the card fits in smoothly along the left and right guides. (Trying to force the card in incorrectly may cause electrical contacts to break.)
- 5. Set dip-switch bit SW012 on the jig to "BOOT".

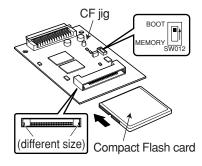


Figure 1-6-6

6. Connect CN1 on the CF jig to YC5 on the fax control PCB.

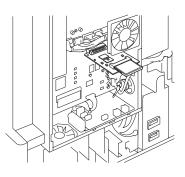
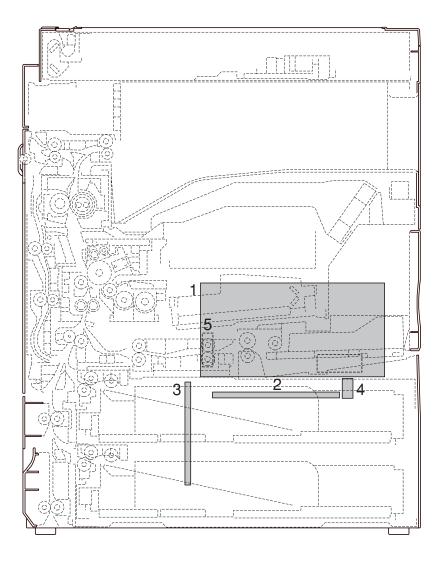


Figure 1-6-7

- Plug the power plug back into the wall outlet, and turn the main switch on. ROM upgrading begins automatically. The LED on the CF jig flashes while upgrading is in progress (for about 2)
  - min.), then comes on solid to indicate that upgrading is finished.
- 8. Turn the main switch off, and disconnect the power plug from the wall outlet.
- 9. Disconnect the CF jig from the fax control PCB.
- 10. Reattach the control-box cover and rear cover.
- 11. Plug the power plug back into the wall outlet, and turn the main switch back on.
- 12. Check the ROM version again using maintenance item U680.



# Figure 2-1-1

1. Fax control PCB (FCPCB)	. Modulates, demodulates, compresses, decompresses and smoothes out
	image data, and converts resolution of image data.
Memory module DIMM*	. Expands memory capacity for image data and bitmap conversion.
2. NCU PCB (NCUPCB)	. Controls connection to the telephone line.
3. Auxiliary power source PCB (APSPCB)	. Converts an AC input to generate 5.2 V DC and 12 V DC.
4. Backup battery (BUBAT)	. Saves stored image when a power-down occur.
5. Speaker (SP)	. Outputs buzzer, monitoring and speaker sounds.
* Optional.	

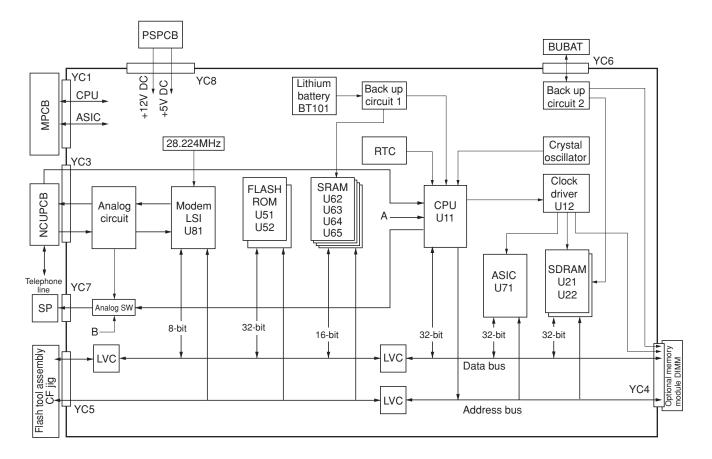


Figure 2-2-1 Fax control PCB block diagram

The fax control PCB (FCPCB) controls the overall fax operation.

To transmit a fax, image data scanned by the optical section of the copier is processed by the main PCB (MPCB) and then sent to the fax control PCB (FCPCB). Received image data is first stored in the bitmap area of the SDRAM U21/U22 page by page and compressed using the MH, MR, MMR or JBIG method. The data is then stored in the image memory area of the SDRAM U21/U22 and sent to the modem LSI U81 to be modulated from digital signal to analog signal before it is sent to the telephone line via the NCU PCB (NCUPCB).

To receive a fax, analog image data received from the telephone line via the NCU PCB (NCUPCB) is sent to the modem LSI U81 and, after demodulation into digital signals, stored in the image memory area of the SDRAM U21/U22. The image data is then decompressed and converted into the bitmap area of the SDRAM U21/U22 page by page and sent to the ASIC U71 for resolution conversion and smoothing, and is passed to the main PCB (MPCB) as print image data.

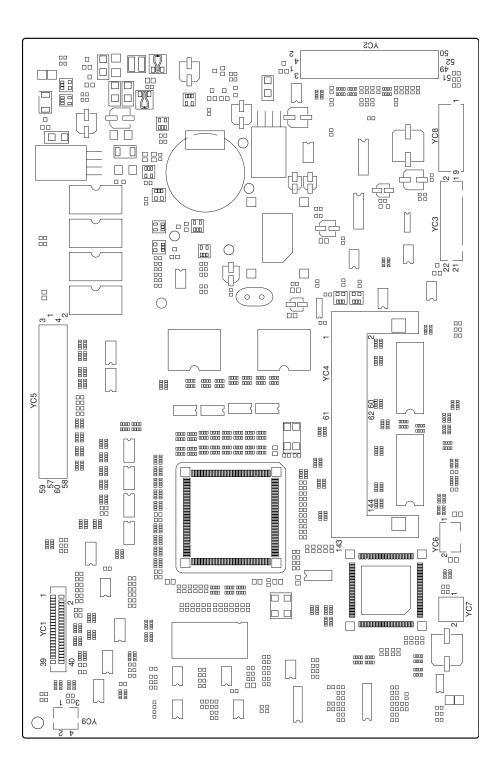


Figure 2-2-2 Fax control PCB silk-screen diagram

Connector	Pin No.	Signal	I/O	Voltage	Description
YC1	1	+3.3V	I	3.3/0 V DC (pulse)	M3.3V signal
Connected	2	GND	-	-	Ground
to the main	3	FPVCLK	I	3.3/0 V DC (pulse)	FPVCLK signal
PCB.	4	GND	-	-	Ground
	5	FVCLK	0	3.3/0 V DC (pulse)	FVCLK signal
	6	GND	-	-	Ground
	7	FMRE	0	3.3/0 V DC (pulse)	FMRE signal
	8	GND	-	-	Ground
	9	_FPVD	0	3.3/0 V DC (pulse)	FPVD0 signal
	10	GND	-	-	Ground
	11 12	_FPHSYNC GND	-	3.3/0 V DC (pulse)	FPHSYNC0 signal Ground
	13	FPVSYNC	I	3.3/0 V DC (pulse)	FPVSYNC0 signal
	14	FVSYNC	i	3.3/0 V DC (pulse)	FVSYNC0 signal
	15	FOVSYNC	i	3.3/0 V DC (pulse)	FOVSYNC signal
	16	GND	-	-	Ground
	17	FOHSTHIN	1	3.3/0 V DC (pulse)	FOHSTHIN0 signal
	18	GND	-	-	Ground
	19	FMIPOUT0	1	3.3/0 V DC (pulse)	FMIPOUT0 signal
	20	GND	-	-	Ground
	21	FMREOUT	I.	3.3/0 V DC (pulse)	FMREOUT signal
	22	GND	-	-	Ground
	23	FFOCLK	I	3.3/0 V DC (pulse)	FFOCLK signal
	24	GND	-	-	Ground
	25	_MMISTS		3.3/0 V DC (pulse)	_MMISTS signal
	26	GND	-	-	Ground
	27	FMMI_TXD2	I	3.3/0 V DC (pulse)	FMMI_TXD2 signal
	28	GND	-		Ground
	29	FMMI_RXD2	0	5/0 V DC (pulse)	FMMI_RXD2 signal
	30 31	GND	-	- 3.3/0 V DC (pulse)	Ground
	32	_FAXRESET FAXREADY	0	5/0 V DC (pulse)	_FAXRESET1 and 2 signal _FAXREADY signal
	33	PREQ	0	5/0 V DC (pulse)	PREQ0 signal
	34	SREQ	0	5/0 V DC (pulse)	SREQ0 signal
	35	SETFAX	Õ	0 V	SETFAX signal
	36	_MAINSTS	I	3.3/0 V DC (pulse)	_MAINSTS signal
	37	GND	-	-	Ground
	38	FMAIN_TXD0	1	3.3/0 V DC (pulse)	FMAIN TXD0 signal
	39	GND	-	-	Ground
	40	FMAIN_RXD0	0	5/0 V DC (pulse)	FMAIN_RXD0 signal
YC3	1	+12V	0	12 V DC	DC supply
Connected	2	A.G	-	-	Ground
to the NCU	3	+5V	0	5 V DC	DC supply
PCB.	4	S.G	-	-	Ground
	5	EXTRING1	0	3.3/0 V DC (pulse)	RNG 16Hz
	6	EXTRING2	0	3.3/0 V DC (pulse)	RNG 20kHz
	7	KMUTE	0	3.3/0 V DC (pulse)	_KMUTE signal
	8 9	SHUNT PLSDIL	0	3.3/0 V DC (pulse) 3.3/0 V DC (pulse)	_SHUNT signal _PLSDIL signal
	9 10	EARTH	0	3.3/0 V DC (pulse) 3.3/0 V DC (pulse)	_PLSDIL signal
	11	TELSEL	0	3.3/0 V DC (pulse)	TELSEL signal
	12	FAXSEL	0	3.3/0 V DC (pulse)	_FAXSEL signal
	13	NCUTYPE2	-	0 V	NCUTYPE2 signal
	14	NCUTYPE3	-	0 V	NCUTYPE3 signal
	15	OFFHOOK	I	3.3/0 V DC	INTOFFHOOK signal
	16	NCUTYPE1	-	0 V	NCUTYPE1 signal
	17	_ONHOOK1	I	5/0 V DC (pulse)	ONHOOK1 signal
	18	_ONHOOK2	I	5/0 V DC (pulse)	ONHOOK2 signal
I	19	RINGDET	I.	3.3/0 V DC (pulse)	RINGDMOD/_RINGDET1 signals
	20 21	MODTXD RXIN	0	Analog Analog	MODTXD signal RXIN signal

YC3         22         MODRXD         I         Analog         MODTXD signal           Connected to the MCUU PCS.         A         <	Connector	Pin No.	Signal	I/O	Voltage	Description
to the NCU PCB.         YC4         61         OPTYPE1         I         3.30 V DC         OPTYPE2 signal           Connected to the memory module         63         OPTYPE2         I         3.30 V DC         OPTYPE2 signal           7         65         +3.3 V         O         3.3 V DC         DC supply           memory module         74         GND         -         Ground         Ground           74         DB23         I/O         3.30 V DC (pulse)         DB(23) signal         Ground           75         GND         -         -         Ground         Ground         Ground           76         DB21         I/O         3.30 V DC (pulse)         DB(23) signal         Ground         Ground           77         DB22         I/O         3.30 V DC (pulse)         DB(21) signal         Ground         Ground <td>YC3</td> <td>22</td> <td>MODRXD</td> <td>Ι</td> <td>Analog</td> <td>MODTXD signal</td>	YC3	22	MODRXD	Ι	Analog	MODTXD signal
PCB.         File         State         State         OPTYPE1         I         State         OPTYPE2           Connected to the memory         63         OPTYPE2         1         State         OPTYPE2         OPTYPE2         OP	Connected					
YC4         61         OPTYPE1         I         3.30 V DC         OPTYPE2 signal           Connected to the memory module         63         OPTYPE2         I         3.30 V DC         OPTYPE2 signal           DIMM*.         67         +3.3V         O         3.3 V DC         DC supply           memory module         67         +3.3V         O         3.3 V DC         DC supply           73         GND         -         -         Ground         Ground           74         DB23         I/O         3.30 V DC (pulse)         DB(2) signal         Ground           76         GND         -         -         Ground         Ground         Ground           77         DB22         I/O         3.30 V DC (pulse)         DB(2) signal         DB(2) signal           78         DB19         I/O         3.30 V DC (pulse)         DB(2) signal         DB(2) signal           79         DB22         I/O         3.30 V DC (pulse)         DB(1) signal         B(1) signal           81         DB18         I/O         3.30 V DC (pulse)         A(2) signal         A(2) signal           82         M22/DQMUL         O         3.30 V DC (pulse)         A(2) signal         A(2) signal <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Connected to the memory mediule         65 + 4.3 V         1         3.3 V DC         OPTYPE2 signal DC supply           67 + 4.3 V         0         3.3 V DC         DC supply           memory module         67 + 4.3 V         0         3.3 V DC         DC supply           71         GND         -         Ground           73         GND         -         -         Ground           76         DB21         V/O         3.30 V DC (pulse)         DB(23) signal           77         DB22         V/O         3.30 V DC (pulse)         DB(23) signal           78         DB19         I/O         3.30 V DC (pulse)         DB(23) signal           80         DB17         I/O         3.30 V DC (pulse)         DB(23) signal           81         DB18         I/O         3.30 V DC (pulse)         DB(13) signal           82         _WE2/DGMUL         O         3.30 V DC (pulse)         DB(14) signal           84         AB3         O         3.30 V DC (pulse)         AB(14) signal           85         AB4         O         3.30 V DC (pulse)         AB(14) signal           86         AB12         O         3.30 V DC (pulse)         AB(14) signal           87 <t< td=""><td>PCB.</td><td></td><td></td><td></td><td></td><td></td></t<>	PCB.					
Connected to the memory memory module         65 + 4.3 V         1         3.3 V DC         OPTYPE2 signal DC supply           memory module         69 + 4.3 V         0         3.3 V DC         DC supply           memory module         71         GND         -         Ground           73         GND         -         -         Ground           74         DB23         I/O         3.3 V DC         DC supply           75         GND         -         -         Ground           76         DB21         I/O         3.30 V DC (pulse)         DB(2) signal           77         DB22         I/O         3.30 V DC (pulse)         DB(2) signal           80         DB17         I/O         3.30 V DC (pulse)         DB(1) signal           81         DB18         I/O         3.30 V DC (pulse)         DB(1) signal           82         WE2/DGMUL         O         3.30 V DC (pulse)         ME(1) signal           83         DB16         X0         DX0 V DC (pulse)         AB(1) signal           84         AB3         O         3.30 V DC (pulse)         AB(1) signal           85         AB4         O         3.30 V DC (pulse)         AB(1) signal						
Connected to the memory memory module         65 + 4.3 V         1         3.3 V DC         OPTYPE2 signal DC supply           memory module         69 + 4.3 V         0         3.3 V DC         DC supply           memory module         71         GND         -         Ground           73         GND         -         -         Ground           74         DB23         I/O         3.3 V DC         DC supply           75         GND         -         -         Ground           76         DB21         I/O         3.30 V DC (pulse)         DB(2) signal           77         DB22         I/O         3.30 V DC (pulse)         DB(2) signal           80         DB17         I/O         3.30 V DC (pulse)         DB(1) signal           81         DB18         I/O         3.30 V DC (pulse)         DB(1) signal           82         WE2/DGMUL         O         3.30 V DC (pulse)         ME(1) signal           83         DB16         X0         DX0 V DC (pulse)         AB(1) signal           84         AB3         O         3.30 V DC (pulse)         AB(1) signal           85         AB4         O         3.30 V DC (pulse)         AB(1) signal						
Both Notice         66         +3.3V         O         B.3.4V DC         DC supply           memory         67         +3.3V         O         3.3 V DC         DC supply           module         94         +3.3V         O         3.3 V DC         DC supply           DIMM*.         71         GND         -         Ground           73         GND         -         Ground           74         DB23         I/O         3.30 V DC (pulse)         DB(23) signal           76         DB21         I/O         3.30 V DC (pulse)         DB(13) signal           77         DB22         I/O         3.30 V DC (pulse)         DB(13) signal           80         DB17         I/O         3.30 V DC (pulse)         DB(17) signal           81         DB18         I/O         3.30 V DC (pulse)         DB(18) signal           82         WE2/DOMUL         3.30 V DC (pulse)         DB(18) signal           84         AB3         O         3.30 V DC (pulse)         DB(17) signal           84         AB2         O         3.30 V DC (pulse)         DB(18) signal           84         AB3         O         3.30 V DC (pulse)         DB(14) signal           84 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Internery memory module         67         +3.3V         O         3.3 V DC         DC supply           module         71         GND         -         Ground         Ground           73         GND         -         Ground         Ground           74         DB23         I/O         3.3/0 V DC (pulse)         DB(23) signal           76         DB21         I/O         3.3/0 V DC (pulse)         DB(23) signal           77         DB22         I/O         3.3/0 V DC (pulse)         DB(23) signal           78         DB19         I/O         3.3/0 V DC (pulse)         DB(23) signal           79         DB20         I/O         3.3/0 V DC (pulse)         DB(21) signal           80         DB17         I/O         3.3/0 V DC (pulse)         DB(13) signal           81         DB18         I/O         3.3/0 V DC (pulse)         DB(18) signal           82         _WE2/DOMUL         O         3.3/0 V DC (pulse)         AB(3) signal           84         AB3         O         3.3/0 V DC (pulse)         AB(13) signal           85         AB4         O         3.3/0 V DC (pulse)         AB(14) signal           86         AB12         O         3.3/0 V DC (pulse) <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td>						5
module         69         4-3.3V         O         3.3 V DC         DC supply           DIMM*.         71         GND         -         -         Ground           73         GND         -         -         Ground           74         DB23         I/O         3.3/0 V DC (pulse)         DB(21) signal           75         GND         -         -         Ground           76         DB21         I/O         3.3/0 V DC (pulse)         DB(21) signal           77         DB22         I/O         3.3/0 V DC (pulse)         DB(17) signal           80         DB17         I/O         3.3/0 V DC (pulse)         DB(17) signal           81         DB18         I/O         3.3/0 V DC (pulse)         DB(16) signal           82         WE2/DOMUL         O         3.3/0 V DC (pulse)         AB(1) signal           83         DB16         I/O         3.3/0 V DC (pulse)         AB(2) signal           84         AB3         O         3.3/0 V DC (pulse)         AB(2) signal           86         AB12         O         3.3/0 V DC (pulse)         AB(2) signal           90         DB25         I/O         3.3/0 V DC (pulse)         BB(27) signal						
Dimme         73         GND         -         Ground           74         DB23         1/0         3.3/0 V DC (pulse)         DB(23) signal           75         GND         -         Ground           76         DB21         1/0         3.3/0 V DC (pulse)         DB(21) signal           77         DB22         1/0         3.3/0 V DC (pulse)         DB(21) signal           78         DB19         1/0         3.3/0 V DC (pulse)         DB(17) signal           80         DB17         1/0         3.3/0 V DC (pulse)         DB(17) signal           81         DB18         1/0         3.3/0 V DC (pulse)         DB(16) signal           82         WE2/DQMUL         O         3.3/0 V DC (pulse)         AB(18) signal           83         DB16         1/0         3.3/0 V DC (pulse)         AB(2) signal           84         AB3         O         3.3/0 V DC (pulse)         AB(2) signal           86         AB12         O         3.3/0 V DC (pulse)         AB(2) signal           87         AB2         O         3.3/0 V DC (pulse)         AB(2) signal           90         DB25         1/0         3.3/0 V DC (pulse)         DB(25) signal           91	-			0	3.3 V DC	
74         DB23         I/O         3.3/0 V DC (pulse)         DB(23) signal           75         GND         -         -         -         Ground           76         DB21         I/O         3.3/0 V DC (pulse)         DB(22) signal         DB(23) signal           77         DB22         I/O         3.3/0 V DC (pulse)         DB(22) signal         DB(23) signal           78         DB19         I/O         3.3/0 V DC (pulse)         DB(17) signal         DB(23) signal           80         DB17         I/O         3.3/0 V DC (pulse)         DB(18) signal         DB(16) signal           81         DB18         I/O         3.3/0 V DC (pulse)         DB(16) signal         DB(16) signal           82         _WE2/DQMUL         O         3.3/0 V DC (pulse)         AB(12) signal         DB(16) signal           84         AB3         O         3.3/0 V DC (pulse)         AB(13) signal         DB(25) signal           86         AB12         O         3.3/0 V DC (pulse)         AB(13) signal         DB(25) signal           90         DB25         I/O         3.3/0 V DC (pulse)         DB(27) signal         DB(28) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(28) signal </td <td>DIMM*.</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td>	DIMM*.			-	-	
76         GND         -         -         Ground           76         DB21         I/O         3.30 V DC (pulse)         DB(21) signal           77         DB22         I/O         3.30 V DC (pulse)         DB(21) signal           78         DB19         I/O         3.30 V DC (pulse)         DB(19) signal           78         DB20         I/O         3.30 V DC (pulse)         DB(17) signal           80         DB17         I/O         3.30 V DC (pulse)         DB(18) signal           81         DB18         I/O         3.30 V DC (pulse)         DB(16) signal           82         _WE2/DOMUL         O         3.30 V DC (pulse)         AB(12) signal           83         DB16         I/O         3.30 V DC (pulse)         AB(13) signal           84         AB3         O         3.30 V DC (pulse)         AB(14) signal           86         AB14         O         3.30 V DC (pulse)         AB(14) signal           87         AB13         O         3.30 V DC (pulse)         BB(25) signal           90         DB25         I/O         3.30 V DC (pulse)         DB(26) signal           91         DB24         I/O         3.30 V DC (pulse)         DB(26) signal				-	- 3 3/0 V DC (pulse)	
76         DB21         I/O         3.3/0 V DC (pulse)         DB(21) signal           77         DB22         I/O         3.3/0 V DC (pulse)         DB(22) signal           78         DB19         I/O         3.3/0 V DC (pulse)         DB(20) signal           80         DB17         I/O         3.3/0 V DC (pulse)         DB(2) signal           80         DB17         I/O         3.3/0 V DC (pulse)         DB(13) signal           81         DB18         I/O         3.3/0 V DC (pulse)         DB(15) signal           82         _WE2/DMUL         O         3.3/0 V DC (pulse)         DB(15) signal           83         DB16         I/O         3.3/0 V DC (pulse)         AB(3) signal           84         AB3         O         3.3/0 V DC (pulse)         AB(14) signal           86         AB12         O         3.3/0 V DC (pulse)         AB(13) signal           87         AB2         O         3.3/0 V DC (pulse)         AB(13) signal           90         DB24         I/O         3.3/0 V DC (pulse)         DB(25) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(25) signal           92         DB26         I/O         3.3/0 V DC (pulse)					-	
78         DB19         I/O         3.30 V DC (pulse)         DB(19) signal           79         DB20         I/O         3.30 V DC (pulse)         DB(20) signal           80         DB17         I/O         3.30 V DC (pulse)         DB(17) signal           81         DB18         I/O         3.30 V DC (pulse)         DB(16) signal           82         _WE2/DQMUL         O         3.30 V DC (pulse)         AR(2) signal           84         AB3         O         3.30 V DC (pulse)         AR(4) signal           85         AB4         O         3.30 V DC (pulse)         AR(4) signal           86         AB12         O         3.30 V DC (pulse)         AR(4) signal           87         AB2         O         3.30 V DC (pulse)         AR(14) signal           88         AB14         O         3.30 V DC (pulse)         AR(2) signal           90         DB25         I/O         3.30 V DC (pulse)         DR(24) signal           91         DB24         I/O         3.30 V DC (pulse)         DR(26) signal           92         DB27         I/O         3.30 V DC (pulse)         DR(26) signal           93         DB26         I/O         3.30 V DC (pulse)         DR(26) signal </td <td></td> <td></td> <td></td> <td>I/O</td> <td></td> <td></td>				I/O		
79         DB20         I/O         3.30 V DC (pulse)         DB(20) signal           80         DB17         I/O         3.30 V DC (pulse)         DB(18) signal           81         DB18         I/O         3.30 V DC (pulse)         DB(18) signal           82         _WE2/DQMUL         O         3.30 V DC (pulse)         DB(16) signal           83         DB16         I/O         3.30 V DC (pulse)         AB(3) signal           84         AB3         O         3.30 V DC (pulse)         AB(4) signal           84         AB12         O         3.30 V DC (pulse)         AB(12) signal           86         AB12         O         3.30 V DC (pulse)         AB(13) signal           90         DB25         I/O         3.30 V DC (pulse)         AB(13) signal           91         DB24         I/O         3.30 V DC (pulse)         DB(25) signal           92         DB27         I/O         3.30 V DC (pulse)         DB(26) signal           93         DB26         I/O         3.30 V DC (pulse)         DB(26) signal           94         DB29         I/O         3.30 V DC (pulse)         DB(26) signal           95         DB28         I/O         3.30 V DC (pulse)         DB(30)						
80         DB17         I/O         3.3/0 V DC (pulse)         DB(17) signal           81         DB18         I/O         3.3/0 V DC (pulse)         DB(18) signal           82         _WE2/DQMUL         0         3.3/0 V DC (pulse)         WE2/DQMUL signal           83         DB16         I/O         3.3/0 V DC (pulse)         AB(3) signal           84         AB3         0         3.3/0 V DC (pulse)         AB(4) signal           85         AB4         0         3.3/0 V DC (pulse)         AB(2) signal           86         AB12         0         3.3/0 V DC (pulse)         AB(2) signal           87         AB2         0         3.3/0 V DC (pulse)         AB(13) signal           90         DB25         I/O         3.3/0 V DC (pulse)         DB(25) signal           91         DB27         I/O         3.3/0 V DC (pulse)         DB(26) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(26) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(26) signal           94         DB28         I/O         3.3/0 V DC (pulse)         DB(3) signal           96         DB31         I/O         3.3/0 V DC (pulse)						
81         DB18         I/O         3.30 V DC (pulse)         DB(18) signal           82         WE2/DQMUL         0         3.30 V DC (pulse)         DB(16) signal           83         DB16         I/O         3.30 V DC (pulse)         AB(3) signal           84         AB3         0         3.30 V DC (pulse)         AB(3) signal           85         AB4         0         3.30 V DC (pulse)         AB(2) signal           86         AB12         0         3.30 V DC (pulse)         AB(12) signal           87         AB2         0         3.30 V DC (pulse)         AB(13) signal           88         AB14         0         3.30 V DC (pulse)         AB(13) signal           90         DB25         I/O         3.30 V DC (pulse)         DB(24) signal           91         DB24         I/O         3.30 V DC (pulse)         DB(25) signal           92         DB27         I/O         3.30 V DC (pulse)         DB(25) signal           93         DB26         I/O         3.30 V DC (pulse)         DB(28) signal           94         DB29         I/O         3.30 V DC (pulse)         DB(28) signal           95         DB28         I/O         3.30 V DC (pulse)         DB(30) signal<					· · · · ·	
82         _WE2/DQMUL         O         3.30 V DC (pulse)         _WE2/DQMUL signal           83         DB16         I/O         3.30 V DC (pulse)         DB(6) signal           84         AB3         O         3.30 V DC (pulse)         AB(3) signal           85         AB4         O         3.30 V DC (pulse)         AB(1) signal           86         AB12         O         3.30 V DC (pulse)         AB(1) signal           87         AB2         O         3.30 V DC (pulse)         AB(1) signal           88         AB14         O         3.30 V DC (pulse)         AB(1) signal           90         DB25         I/O         3.30 V DC (pulse)         AB(1) signal           91         DB24         I/O         3.30 V DC (pulse)         DB(25) signal           92         DB27         I/O         3.30 V DC (pulse)         DB(26) signal           93         DB26         I/O         3.30 V DC (pulse)         DB(26) signal           94         DB29         I/O         3.30 V DC (pulse)         DB(26) signal           95         DB28         I/O         3.30 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.30 V DC (pulse)         AB(5) signal<						
83         DB16         I/O         3.30 V DC (pulse)         DB(16) signal           84         AB3         O         3.30 V DC (pulse)         AB(3) signal           85         AB4         O         3.30 V DC (pulse)         AB(12) signal           86         AB12         O         3.30 V DC (pulse)         AB(12) signal           87         AB2         O         3.30 V DC (pulse)         AB(14) signal           88         AB14         O         3.30 V DC (pulse)         AB(13) signal           90         DB25         I/O         3.30 V DC (pulse)         DB(25) signal           91         DB244         I/O         3.30 V DC (pulse)         DB(24) signal           92         DB27         I/O         3.30 V DC (pulse)         DB(24) signal           93         DB26         I/O         3.30 V DC (pulse)         DB(24) signal           94         DB29         I/O         3.30 V DC (pulse)         DB(28) signal           95         DB28         I/O         3.30 V DC (pulse)         DB(28) signal           96         DB31         I/O         3.30 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.30 V DC (pulse)         AB(5) signal </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
85         AB4         O         3.3/0 V DC (pulse)         AB(4) signal           86         AB12         O         3.3/0 V DC (pulse)         AB(12) signal           87         AB2         O         3.3/0 V DC (pulse)         AB(12) signal           87         AB2         O         3.3/0 V DC (pulse)         AB(14) signal           88         AB14         O         3.3/0 V DC (pulse)         AB(14) signal           90         DB25         I/O         3.3/0 V DC (pulse)         AB(13) signal           90         DB25         I/O         3.3/0 V DC (pulse)         DB(24) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(24) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(29) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(29) signal           94         DB29         I/O         3.3/0 V DC (pulse)         DB(30) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(30) signal           96         DB31         I/O         3.3/0 V DC (pulse)         AB(5) signal           97         DB30         I/O         3.3/0 V DC (pulse)         AB						
86         AB12         O         3.3/0 V DC (pulse)         AB(12) signal           87         AB2         O         3.3/0 V DC (pulse)         AB(12) signal           88         AB14         O         3.3/0 V DC (pulse)         AB(13) signal           89         AB13         O         3.3/0 V DC (pulse)         DB(25) signal           90         DB25         I/O         3.3/0 V DC (pulse)         DB(24) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(24) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(26) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(28) signal           94         DB29         I/O         3.3/0 V DC (pulse)         DB(28) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(31) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         AB(5) signal           99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         AB(8) signal           100         AB7         O         3.3/0 V DC (pulse) <td< td=""><td></td><td>84</td><td>AB3</td><td>0</td><td>3.3/0 V DC (pulse)</td><td>AB(3) signal</td></td<>		84	AB3	0	3.3/0 V DC (pulse)	AB(3) signal
87         AB2         O         3.3/0 V DC (pulse)         AB(2) signal           88         AB14         O         3.3/0 V DC (pulse)         AB(14) signal           99         AB25         I/O         3.3/0 V DC (pulse)         AB(14) signal           90         DB25         I/O         3.3/0 V DC (pulse)         DB(24) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(27) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(26) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(28) signal           94         DB29         I/O         3.3/0 V DC (pulse)         DB(29) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(31) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.3/0 V DC (pulse)         AB(3) signal           98         AB5         O         3.3/0 V DC (pulse)         AB(13) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(10) signal           101         AB6         O         3.3/0 V DC (pulse)         A					. ,	
88         AB14         O         3.3/0 V DC (pulse)         AB(14) signal           89         AB13         O         3.3/0 V DC (pulse)         DB(25) signal           90         DB25         I/O         3.3/0 V DC (pulse)         DB(25) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(24) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(24) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(26) signal           94         DB29         I/O         3.3/0 V DC (pulse)         DB(28) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(28) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.3/0 V DC (pulse)         AB(5) signal           99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         AB(5) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(7) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(9) signal           102         AB9         O         3.3/0 V DC (pulse)         <						
89         AB13         O         3.3/0 V DC (pulse)         AB(13) signal           90         DB25         I/O         3.3/0 V DC (pulse)         DB(25) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(24) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(27) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(29) signal           94         DB29         I/O         3.3/0 V DC (pulse)         DB(29) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(28) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         AB(5) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(9) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(9) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(9) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(1						
90         DB25         I/O         3.3/0 V DC (pulse)         DB(25) signal           91         DB24         I/O         3.3/0 V DC (pulse)         DB(24) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(25) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(26) signal           94         DB29         I/O         3.3/0 V DC (pulse)         DB(28) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(28) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         AB(5) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(6) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(3) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(8) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(11) signal           104         AB11         O         3.3/0 V DC (pulse)         CS2						
91         DB24         I/O         3.3/0 V DC (pulse)         DB(24) signal           92         DB27         I/O         3.3/0 V DC (pulse)         DB(27) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(29) signal           94         DE29         I/O         3.3/0 V DC (pulse)         DB(29) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(20) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         AB(5) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(7) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(6) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(8) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(11) signal           104         AB11         O         3.3/0 V DC (pulse)         AB(10) signal           105         AB10         O         3.3/0 V DC (pulse)         CS2S						
92         DB27         I/O         3.3/0 V DC (pulse)         DB(27) signal           93         DB26         I/O         3.3/0 V DC (pulse)         DB(26) signal           94         DB29         I/O         3.3/0 V DC (pulse)         DB(28) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(28) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         DB(30) signal           99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         AB(5) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(5) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(8) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(8) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(11) signal           104         AB10         O         3.3/0 V DC (pulse)         CK23DOP signal           107         CKE         O         3.3/0 V DC (pulse)						
94         DB29         I/O         3.3/0 V DC (pulse)         DB(29) signal           95         DB28         I/O         3.3/0 V DC (pulse)         DB(29) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(31) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(3) signal           98         AB5         O         3.3/0 V DC (pulse)         DB(3) signal           99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         AB(5) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(6) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(7) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(3) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(3) signal           104         AB11         O         3.3/0 V DC (pulse)         AB(1) signal           106         _CS2SDOP         O         3.3/0 V DC (pulse)         _CKS2SDOP signal           107         CKE         O         3.3/0 V DC (pulse) <td< td=""><td></td><td></td><td></td><td></td><td>3.3/0 V DC (pulse)</td><td></td></td<>					3.3/0 V DC (pulse)	
95         DB28         I/O         3.3/0 V DC (pulse)         DB(28) signal           96         DB31         I/O         3.3/0 V DC (pulse)         DB(31) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         AB(5) signal           99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         AB(5) signal           100         AB7         O         3.3/0 V DC (pulse)         AB(6) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(6) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(8) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(8) signal           104         AB11         O         3.3/0 V DC (pulse)         AB(11) signal           105         AB10         O         3.3/0 V DC (pulse)         AB(10) signal           106         _CS2SDOP         O         3.3/0 V DC (pulse)         _CS2SDOP signal           107         CKE         O         3.3/0 V DC (pulse)         _CASL signal           109         GND         -         -         Ground						
96         DB31         I/O         3.3/0 V DC (pulse)         DB(31) signal           97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         DB(30) signal           99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         _WE3/DQMUU signal           100         AB7         O         3.3/0 V DC (pulse)         AB(7) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(6) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(6) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(1) signal           104         AB11         O         3.3/0 V DC (pulse)         AB(1) signal           105         AB10         O         3.3/0 V DC (pulse)         AB(10) signal           106         _CS2SDOP         O         3.3/0 V DC (pulse)         _CS2SDOP signal           107         CKE         O         3.3/0 V DC (pulse)         _CASL signal           108         _RAS3L         O         3.3/0 V DC (pulse)         _CASL signal           110         _CASL         O         3.3/0 V DC (pulse)						
97         DB30         I/O         3.3/0 V DC (pulse)         DB(30) signal           98         AB5         O         3.3/0 V DC (pulse)         AB(5) signal           99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         _WE3/DQMUU signal           100         AB7         O         3.3/0 V DC (pulse)         AB(5) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(6) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(8) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(8) signal           104         AB11         O         3.3/0 V DC (pulse)         AB(1) signal           105         AB10         O         3.3/0 V DC (pulse)         AB(10) signal           106         _CS2SDOP         O         3.3/0 V DC (pulse)         _CS2SDOP signal           107         CKE         O         3.3/0 V DC (pulse)         _CKS2 signal           109         GND         -         Ground         Ground           110         _CASL         O         3.3/0 V DC (pulse)         _CASL signal           111         CLKSDOP         O         3.3/0 V DC (pulse)         RL/KSDOP signal<						
98         AB5         0         3.3/0 V DC (pulse)         AB(5) signal           99         _WE3/DQMUU         0         3.3/0 V DC (pulse)         _WE3/DQMUU signal           100         AB7         0         3.3/0 V DC (pulse)         AB(7) signal           101         AB6         0         3.3/0 V DC (pulse)         AB(6) signal           102         AB9         0         3.3/0 V DC (pulse)         AB(8) signal           102         AB8         0         3.3/0 V DC (pulse)         AB(8) signal           103         AB8         0         3.3/0 V DC (pulse)         AB(9) signal           104         AB11         0         3.3/0 V DC (pulse)         AB(11) signal           105         AB10         0         3.3/0 V DC (pulse)         AB(10) signal           106         _CS2SDOP         0         3.3/0 V DC (pulse)         CKE signal           107         CKE         0         3.3/0 V DC (pulse)         _CASL signal           109         GND         -         -         Ground           111         CLKSDOP         0         3.3/0 V DC (pulse)         CASL signal           112         RD/_WE         0         3.3/0 V DC (pulse)         Rorud <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
99         _WE3/DQMUU         O         3.3/0 V DC (pulse)         _WE3/DQMUU signal           100         AB7         O         3.3/0 V DC (pulse)         AB(7) signal           101         AB6         O         3.3/0 V DC (pulse)         AB(6) signal           102         AB9         O         3.3/0 V DC (pulse)         AB(6) signal           103         AB8         O         3.3/0 V DC (pulse)         AB(9) signal           104         AB11         O         3.3/0 V DC (pulse)         AB(1) signal           105         AB10         O         3.3/0 V DC (pulse)         AB(1) signal           106         _CS2SDOP         O         3.3/0 V DC (pulse)         CS2SDOP signal           107         CKE         O         3.3/0 V DC (pulse)         CKE signal           108         _RAS3L         O         3.3/0 V DC (pulse)         _CASL signal           109         GND         -         -         Ground           111         CLKSDOP         O         3.3/0 V DC (pulse)         _CASL signal           112         RD/_WE         O         3.3/0 V DC (pulse)         _CASL signal           112         RD/_WE         O         3.3/0 V DC (pulse)         RD/_WE signal						
101       AB6       O       3.3/0 V DC (pulse)       AB(6) signal         102       AB9       O       3.3/0 V DC (pulse)       AB(9) signal         103       AB8       O       3.3/0 V DC (pulse)       AB(8) signal         104       AB11       O       3.3/0 V DC (pulse)       AB(11) signal         105       AB10       O       3.3/0 V DC (pulse)       AB(10) signal         106       _CS2SDOP       O       3.3/0 V DC (pulse)       AB(10) signal         107       CKE       O       3.3/0 V DC (pulse)       CS2SDOP signal         108       _RAS3L       O       3.3/0 V DC (pulse)       _CS2SDOP signal         109       GND       -       Ground       Ground         110       _CASL       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       CLKSDOP signal         112       RD_WE       O       3.3/0 V DC (pulse)       BD/_WE signal         113       GND       -       Ground       Ground         114       _WE1/DQMLU       O       3.3/0 V DC (pulse)       DB(8) signal						
102       AB9       O       3.3/0 V DC (pulse)       AB(9) signal         103       AB8       O       3.3/0 V DC (pulse)       AB(8) signal         104       AB11       O       3.3/0 V DC (pulse)       AB(1) signal         105       AB10       O       3.3/0 V DC (pulse)       AB(10) signal         106       _CS2SDOP       O       3.3/0 V DC (pulse)       AB(10) signal         107       CKE       O       3.3/0 V DC (pulse)       _CS2SDOP signal         108       _RAS3L       O       3.3/0 V DC (pulse)       _CKE signal         109       GND       -       -       Ground         110       _CASL       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CASL signal         110       _CASL       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       RD/_WE signal         112       RD/_WE       O       3.3/0 V DC (pulse)       WE1/DQMLU signal         113       GND       -       -       Ground       Gr						
103       AB8       O       3.3/0 V DC (pulse)       AB(8) signal         104       AB11       O       3.3/0 V DC (pulse)       AB(1) signal         105       AB10       O       3.3/0 V DC (pulse)       AB(1) signal         106       _CS2SDOP       O       3.3/0 V DC (pulse)       AB(10) signal         107       CKE       O       3.3/0 V DC (pulse)       _CS2SDOP signal         108       _RAS3L       O       3.3/0 V DC (pulse)       _CKE signal         109       GND       -       -       Ground         110       _CASL       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CLKSDOP signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       CLKSDOP signal         112       RD/_WE       O       3.3/0 V DC (pulse)       RD/_WE signal         113       GND       -       -       Ground         114       _WE1/DQMLU       O       3.3/0 V DC (pulse)       _WE1/DQMLU signal         115       DB8       I/O       3.3/0 V DC (pulse)       DB(8) signal						
104       AB11       O       3.3/0 V DC (pulse)       AB(11) signal         105       AB10       O       3.3/0 V DC (pulse)       AB(10) signal         106       _CS2SDOP       O       3.3/0 V DC (pulse)       _CS2SDOP signal         107       CKE       O       3.3/0 V DC (pulse)       _CS2SDOP signal         108       _RAS3L       O       3.3/0 V DC (pulse)       _CKE signal         109       GND       -       -       Ground         110       _CASL       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CLKSDOP signal         112       RD/_WE       O       3.3/0 V DC (pulse)       RD/_WE signal         113       GND       -       -       Ground         114       _WE1/DQMLU       O       3.3/0 V DC (pulse)       _WE1/DQMLU signal         115       DB8       I/O       3.3/0 V DC (pulse)       DB(8) signal         116       DB9       I/O       3.3/0 V DC (pulse)       DB(10) signal         117       DB10       I/O       3.3/0 V DC (pulse)       DB(10) signal<						
105       AB10       O       3.3/0 V DC (pulse)       AB(10) signal         106       _CS2SDOP       O       3.3/0 V DC (pulse)       _CS2SDOP signal         107       CKE       O       3.3/0 V DC (pulse)       CKE signal         108       _RAS3L       O       3.3/0 V DC (pulse)       _RAS3L signal         109       GND       -       -       Ground         110       _CASL       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CLKSDOP signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       _CLKSDOP signal         112       RD/_WE       O       3.3/0 V DC (pulse)       RD/_WE signal         113       GND       -       -       Ground         114       _WE1/DQMLU       O       3.3/0 V DC (pulse)       _WE1/DQMLU signal         115       DB8       I/O       3.3/0 V DC (pulse)       DB(8) signal         116       DB9       I/O       3.3/0 V DC (pulse)       DB(9) signal         117       DB10       I/O       3.3/0 V DC (pulse)       DB(10) signal						
106         _CS2SDOP         O         3.3/0 V DC (pulse)         _CS2SDOP signal           107         CKE         O         3.3/0 V DC (pulse)         CKE signal           108         _RAS3L         O         3.3/0 V DC (pulse)         _RAS3L signal           109         GND         -         -         Ground           110         _CASL         O         3.3/0 V DC (pulse)         _CASL signal           111         CLKSDOP         O         3.3/0 V DC (pulse)         _CASL signal           111         CLKSDOP         O         3.3/0 V DC (pulse)         _CLKSDOP signal           112         RD/_WE         O         3.3/0 V DC (pulse)         CLKSDOP signal           112         RD/_WE         O         3.3/0 V DC (pulse)         RD/_WE signal           113         GND         -         -         Ground           114         _WE1/DQMLU         O         3.3/0 V DC (pulse)         _WE1/DQMLU signal           115         DB8         I/O         3.3/0 V DC (pulse)         DB(8) signal           116         DB9         I/O         3.3/0 V DC (pulse)         DB(9) signal           117         DB10         I/O         3.3/0 V DC (pulse)         DB(10) signal					. ,	
107         CKE         O         3.3/0 V DC (pulse)         CKE signal           108         _RAS3L         O         3.3/0 V DC (pulse)         _RAS3L signal           109         GND         -         -         Ground           110         _CASL         O         3.3/0 V DC (pulse)         _CASL signal           111         CLKSDOP         O         3.3/0 V DC (pulse)         _CASL signal           111         CLKSDOP         O         3.3/0 V DC (pulse)         CLKSDOP signal           112         RD/_WE         O         3.3/0 V DC (pulse)         RD/_WE signal           113         GND         -         -         Ground           114         _WE1/DQMLU         O         3.3/0 V DC (pulse)         _WE1/DQMLU signal           115         DB8         I/O         3.3/0 V DC (pulse)         DB(8) signal           116         DB9         I/O         3.3/0 V DC (pulse)         DB(9) signal           117         DB10         I/O         3.3/0 V DC (pulse)         DB(10) signal           118         DB11         I/O         3.3/0 V DC (pulse)         DB(11) signal						
109       GND       -       -       Ground         110       _CASL       O       3.3/0 V DC (pulse)       _CASL signal         111       CLKSDOP       O       3.3/0 V DC (pulse)       CLKSDOP signal         112       RD/_WE       O       3.3/0 V DC (pulse)       RD/_WE signal         113       GND       -       -       Ground         114       _WE1/DQMLU       O       3.3/0 V DC (pulse)       _WE1/DQMLU signal         115       DB8       I/O       3.3/0 V DC (pulse)       DB(8) signal         116       DB9       I/O       3.3/0 V DC (pulse)       DB(9) signal         117       DB10       I/O       3.3/0 V DC (pulse)       DB(10) signal         118       DB11       I/O       3.3/0 V DC (pulse)       DB(11) signal		107	CKE	0	3.3/0 V DC (pulse)	CKE signal
110_CASLO3.3/0 V DC (pulse)_CASL signal111CLKSDOPO3.3/0 V DC (pulse)CLKSDOP signal112RD/_WEO3.3/0 V DC (pulse)RD/_WE signal113GNDGround114_WE1/DQMLUO3.3/0 V DC (pulse)_WE1/DQMLU signal115DB8I/O3.3/0 V DC (pulse)DB(8) signal116DB9I/O3.3/0 V DC (pulse)DB(9) signal117DB10I/O3.3/0 V DC (pulse)DB(10) signal118DB11I/O3.3/0 V DC (pulse)DB(11) signal					3.3/0 V DC (pulse)	
111CLKSDOPO3.3/0 V DC (pulse)CLKSDOP signal112RD/_WEO3.3/0 V DC (pulse)RD/_WE signal113GNDGround114_WE1/DQMLUO3.3/0 V DC (pulse)_WE1/DQMLU signal115DB8I/O3.3/0 V DC (pulse)DB(8) signal116DB9I/O3.3/0 V DC (pulse)DB(9) signal117DB10I/O3.3/0 V DC (pulse)DB(10) signal118DB11I/O3.3/0 V DC (pulse)DB(11) signal						
112       RD/_WE       O       3.3/0 V DC (pulse)       RD/_WE signal         113       GND       -       -       Ground         114       _WE1/DQMLU       O       3.3/0 V DC (pulse)       _WE1/DQMLU signal         115       DB8       I/O       3.3/0 V DC (pulse)       DB(8) signal         116       DB9       I/O       3.3/0 V DC (pulse)       DB(9) signal         117       DB10       I/O       3.3/0 V DC (pulse)       DB(10) signal         118       DB11       I/O       3.3/0 V DC (pulse)       DB(11) signal						
113         GND         -         -         Ground           114         _WE1/DQMLU         O         3.3/0 V DC (pulse)         _WE1/DQMLU signal           115         DB8         I/O         3.3/0 V DC (pulse)         DB(8) signal           116         DB9         I/O         3.3/0 V DC (pulse)         DB(9) signal           117         DB10         I/O         3.3/0 V DC (pulse)         DB(10) signal           118         DB11         I/O         3.3/0 V DC (pulse)         DB(11) signal						
114         _WE1/DQMLU         O         3.3/0 V DC (pulse)         _WE1/DQMLU signal           115         DB8         I/O         3.3/0 V DC (pulse)         DB(8) signal           116         DB9         I/O         3.3/0 V DC (pulse)         DB(9) signal           117         DB10         I/O         3.3/0 V DC (pulse)         DB(10) signal           118         DB11         I/O         3.3/0 V DC (pulse)         DB(11) signal				-	-	
116         DB9         I/O         3.3/0 V DC (pulse)         DB(9) signal           117         DB10         I/O         3.3/0 V DC (pulse)         DB(10) signal           118         DB11         I/O         3.3/0 V DC (pulse)         DB(11) signal		114				
117         DB10         I/O         3.3/0 V DC (pulse)         DB(10) signal           118         DB11         I/O         3.3/0 V DC (pulse)         DB(11) signal					. ,	
118 DB11 I/O 3.3/0 V DC (pulse) DB(11) signal						
I = 119   DB12 =   I/O   3 3/0 V DC (nulse)   DB(12) signal		118	DB12	1/0 1/0	3.3/0 V DC (pulse) 3.3/0 V DC (pulse)	DB(11) signal DB(12) signal
120 DB13 I/O 3.3/0 V DC (pulse) DB(12) signal						
121 DB14 I/O 3.3/0 V DC (pulse) DB(14) signal						

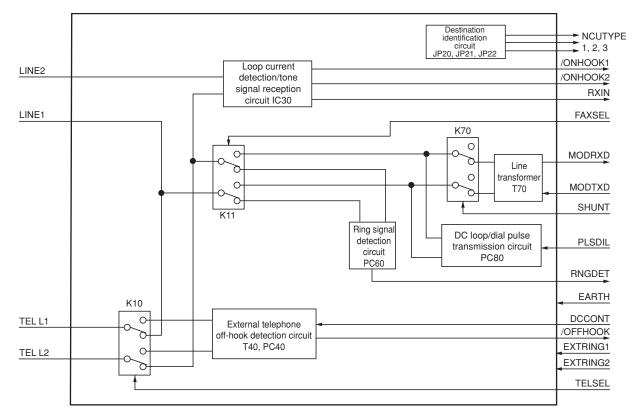
\*: Optional

Connector	Pin No.	Signal	I/O	Voltage	Description
CN4 Connected to the memory module DIMM*.	122 123 124 125 126 127 128 129 130 131 133 135 137 139 141 143	DB15 _WE0/DQMLL DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0 GND GND GND GND 43.3V +3.3V +3.3V	I/O O I/O I/O I/O I/O I/O I/O I/O - - - 0 O O	3.3/0 V DC (pulse) 3.3/0 V DC (pulse) - - - 3.3 V DC 3.3 V DC 3.3 V DC 3.3 V DC	DB(15) signal _WE0/DQMLL signal DB(7) signal DB(6) signal DB(5) signal DB(4) signal DB(3) signal DB(2) signal DB(1) signal DB(0) signal Ground Ground Ground DC supply DC supply DC supply
YC5	1	+5V	0	5 V DC	DC supply
Connected to the flash tool assembly and CF jig.	$\begin{array}{c}2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\9\\21\\22\\34\\25\\27\\28\\29\\30\\31\\23\\34\\35\\36\\7\\38\\9\\0\\41\\42\\43\\44\end{array}$	+5V +5V GND GND GND _JIGSET _ENDLED +3.3V JDB15 JDB14 JDB13 JDB12 JDB11 JDB10 JDB9 JDB8 JDB7 JDB6 JDB5 JDB4 JDB3 JDB2 JDB1 JDB0 +5V +5V GND GND SND +5V +5V GND GND GND +3.3V _JIGRESET _JIGRD _JIGRD _JIGRESET _JIGRD _JIGRD H3.3V _JIGRESET _JIGRD JIGTYPE1 JIGTYPE2 JIGCONT1 JIGTYPE2 JIGCONT1 JIGCONT2 _CPUWAIT JAB17 JAB16 JAB15		5 V DC 5 V DC - - - 3.3/0 V DC 3.3/0 V DC 3.3/0 V DC (pulse) 5 V DC (pulse) 5 V DC (pulse) 3 X DC - - - 3.3 V DC 3.3/0 V DC (pulse) 3.3/0 V D	DC supply DC supply Ground Ground JIGSET signal _ENDLED signal DC supply DBB(15) signal DBB(14) signal DBB(13) signal DBB(12) signal DBB(13) signal DBB(11) signal DBB(13) signal DBB(10) signal DBB(10) signal DBB(10) signal DBB(3) signal DBB(4) signal DBB(5) signal DBB(2) signal DBB(2) signal DBB(1) signal DBB(1) signal DBB(0) signal DC supply Ground Ground Ground Ground DC supply JIGRESET signal _JIGRD signal CSROM1 signal _CSROM1 signal _CSROM1 signal JIGTYPE1 signal JIGCONT1 signal JIGCONT1 signal JIGCONT1 signal ABB(18) signal ABB(17) signal ABB(17) signal

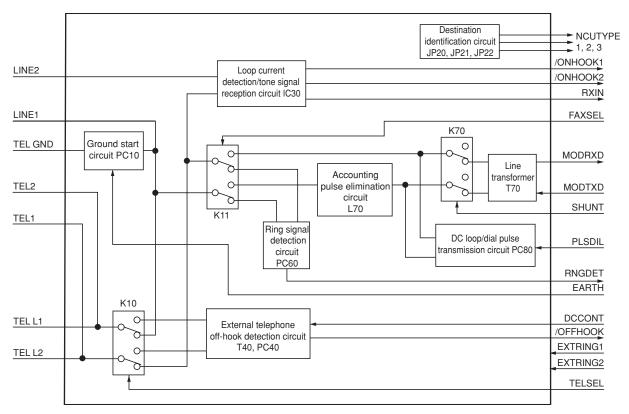
Connector	Pin No.	Signal	I/O	Voltage	Description
YC5 Connected to the flash tool assembly and CF jig. YC6	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 1	JAB14 JAB13 JAB12 JAB11 JAB10 JAB9 JAB9 JAB8 JAB7 JAB6 JAB5 JAB4 JAB3 JAB2 JAB1 JAB0	000000000000000000000000000000000000000	3.3/0 V DC (pulse) 3.3/0 V DC (pulse)	ABB(15) signal ABB(14) signal ABB(13) signal ABB(12) signal ABB(12) signal ABB(10) signal ABB(10) signal ABB(9) signal ABB(8) signal ABB(7) signal ABB(7) signal ABB(6) signal ABB(6) signal ABB(5) signal ABB(4) signal ABB(3) signal ABB(2) signal ABB(1) signal BUBAT backup power supply
Connected to the backup battery.	2	GND	-	-	Ground
YC7 Connected to the speaker.	1 2	BEEP AGND	0 -	Analog -	SP alarm Ground (Analog)
YC8 Connected to the auxiliary power sourcePCB.	1 2 3 4 5 6 7 8	+5V +5V GND GND +12V AGND _MRY _MSW		5 V DC 5 V DC - 12 V DC - 5/0 V DC (pulse) 3.3/0 V DC (pulse)	DC supply Ground Ground DC supply Ground (Analog) _MRY signal _MSW signal

## 2-2-2 NCU PCB

120 V specifications







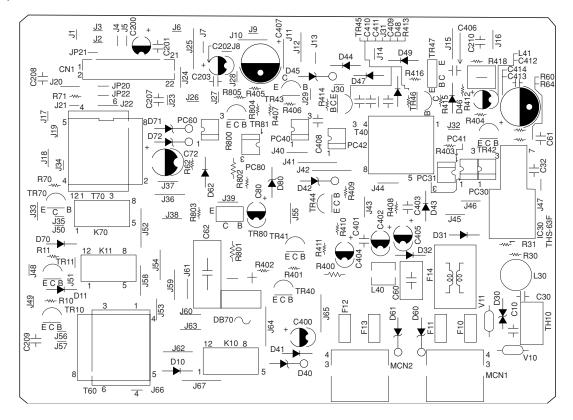


## 3DB

The NCU PCB (NCUPCB) mainly controls the connection to the telephone line. It consists of the circuits shown in the block diagram.

The loop current detection/tone signal reception circuit IC30 detects the DC loop current formed at the DC loop/dial pulse transmission circuit PC80 to determine the status of the telephone line. It also receives tone (DTMF) signals during remote control. The ring signal detection circuit PC60 detects the ring signals from the telephone line to determine call reception. The DC loop/dial pulse transmission circuit PC80 turns on and off the DC loop formed in the telephone line to send out dial pulses (selection signals). The external telephone off-hook detection circuit (T40 and PC40) detects the off-hook state of the telephone connected. The destination identification circuit (JP20, JP21 and JP22) is used by the fax control PCB (FCPCB) to identify the destination of the NCU PCB (NCUPCB). The accounting pulse elimination circuit L70 removes signals representing the communication charge information (accounting pulses) before they reach the modem when telephone line is used.\* This is because accounting pulses obstruct fax communications. The ground start circuit PC10 requests an outside connection to the private branch exchange (PBX) when calling via the PBX.\*

\*For 220 - 240 V specifications only.



220 - 240 V specifications

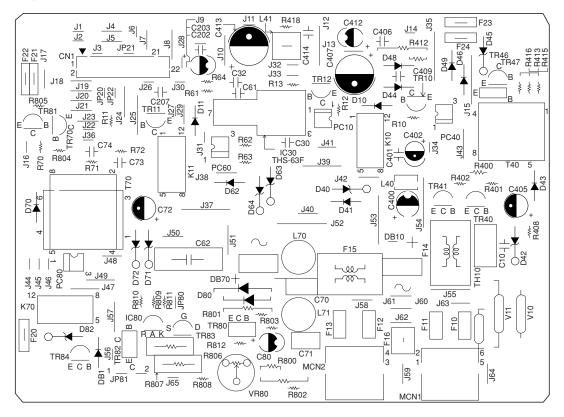


Figure 2-2-4 NUC PCB silk-screen diagram

Connector	Pin No.	Signal	I/O	Voltage	Description
CN1 Connected to the fax control PCB.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	RXIN MODRXD RNGDET MODTXD ONHOOK1 ONHOOK2 OFFHOOK N.C NCUTYPE2 NCUTYPE3 TELSEL FAXSEL PLSDIL EARTH DCCONT SHUNT N.C N.C 5V GND 12V GND		Analog 3.3/0 V DC (pulse) 5/0 V DC (pulse) 5/0 V DC (pulse) 3.3/0 V DC (pulse) - 5 V DC - 12 V DC -	RXIN signal MODRXD signal NODRXD signal ONHOOK1 signal ONHOOK2 signal Not used NCUTYPE2 signal RATH signal FAXSEL signal PLSDL signal BHUNT signal SHUNT signal Not used Not used DC supply Ground DC supply Ground

\*: For 220-240 V specifications. 2-2-10

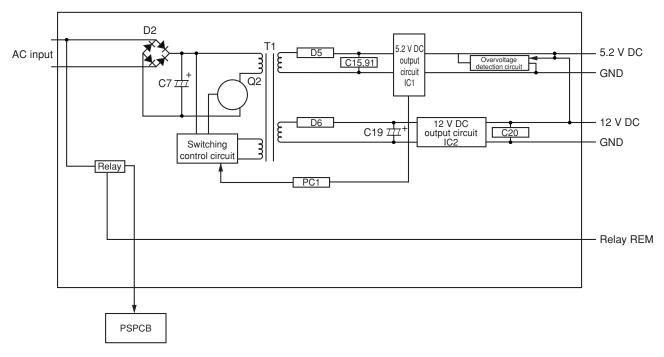


Figure 2-2-5 Auxiliary power source PCB block diagram

The auxiliary power source PCB (APSPCB) is a switching regulator that converts an AC input to generate 5.2 V DC and 12 V DC. It consists of a switching control circuit, 5.2 V DC output circuit and 12 V DC output circuit.

The rectifier circuit rectifies the full-wave of the AC input using the diode bridge D2. The smoothing capacitor C7 smoothes out the pulsed current from the diode bridge.

The switching control circuit turns on/off the power MOSFET Q2 with the voltage induced in the controlling coil of the transformer T1 to switch the current induced in the primary coil of the transformer T1.

The 5.2 V DC output circuit smoothes out the voltage from the current induced in the secondary coil of the transformer T1 via the diode D5 and smoothing capacitors C15 and C91, and outputs a stable 5.2 V DC using the shunt regulator IC1. The output status of the 5.2 V DC is fed back to the switching control circuit via the photo-coupler PC1. Based on the feedback, the switching control circuit changes the duty cycle of the pulse that turns power MOSFET Q2 on/off in order to adjust the 5.2 V DC.

The 12 V DC output circuit smoothes out voltage from the current induced in the secondary coil of the transformer T1 via the diode D6 and smoothing capacitor C19, and generates a stable 12 V DC using the 3-pin regulator IC2.

The relay turns on/off the AC supply to the power source PCB (PSPCB) based on the remote signal from the fax control PCB (FCPCB).

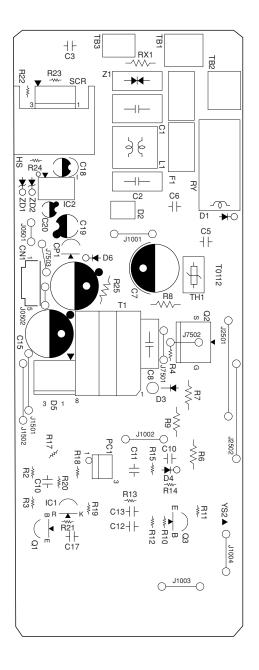


Figure 2-2-6 Auxiliary power source PCB silk-screen diagram

Connector	Pin No.	Signal	I/O	Voltage	Description
CN1	1	RY	Ι	-	RY signal
Connected	2	GND	-	-	Ground
to the fax	3	12V	0	12 V DC	DC supply
control	4	GND	-	-	Ground
PCB.	5	5.2V	0	5 V DC	DC supply

# **KYOCERA MITA AMERICA, INC.**

#### Headquarters:

225 Sand Road, P.O. Box 40008 Fairfield, New Jersey 07004-0008 TEL : (973) 808-8444 FAX : (973) 882-6000

## New York Show Room:

1410 Broadway 23rd floor New York, NY 10018 TEL : (917) 286-5400 FAX : (917) 286-5402

## Northeastern Region:

225 Sand Road, P.O. Box 40008 Fairfield, New Jersey 07004-0008 TEL : (973) 808-8444 FAX : (973) 882-4401

## **Midwestern Region:**

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

## Western Region:

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

## Southeastern Region:

1500 Oakbrook Drive, Norcross, Georgia 30093 TEL : (770) 729-9786 FAX : (770) 729-9873

## Southwestern Region:

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

## **Dallas Parts Distribution Center**

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

# KYOCERA MITA CANADA, LTD.

6120 Kestrel Road, Mississauga, Ontario L5T 1S8, Canada TEL : (905) 670-4425 FAX : (905) 670-8116

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

Av. 16 de Septiembre #407 Col. Santa Inés, 02130 Azcapotzalco México, D.F. México TEL : (55) 383-2741 FAX : (55) 383-7804

©2002 KYOCERA MITA CORPORATION KYOCERA is a trademark of Kyocera Corporation mita is a registered trademark of KYOCERA MITA CORPORATION

Printed in U.S.A.