FAX Unit

Field Service Manual Ver 1.0

Initial Release: February, 2019 Copyright (c) 2019 Ricoh Co.,Ltd.

Important Safety Notices

Important Safety Notices

WARNING

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never connect the telephone line for business phones to the Fax Line jack of the machine.
 Doing so will damage the fax board.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Always use caution when installing or modifying telephone lines.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be
 a remote risk of electric shock from lightning.
- Do not use a telephone or cellular phone to report a gas leak in the vicinity of the leak.

ACAUTION

- Before installing the fax unit, switch off the main switch, and disconnect the power cord.
- The fax unit contains a lithium battery. The danger of explosion exists if a battery of this type is incorrectly replaced. Replace only with the same or an equivalent type recommended by the manufacturer.
- Discard batteries in accordance with the manufacturer's instructions and local regulations.

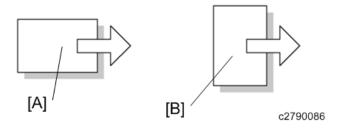
Note for Australia

Unit must be connected to Telecommunication Network through a line cord that meets the requirements of ACA Technical Standard TS008.

Symbols and Abbreviations

This manual uses several symbols and abbreviations. The meaning of those symbols and abbreviations are as follows:

Symbol	What it means
R	Clip ring
OP	Screw
F	Connector
	Clamp
(2)	E-ring
	Flat Flexible Cable
	Timing Belt
SEF	Short Edge Feed
LEF	Long Edge Feed
К	Black
С	Cyan
M	Magenta
Υ	Yellow
B/W, BW	Black and White
FC	Full color



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

Table of Contents

1.	Installation	3
	Fax Unit Options	3
	Handset HS1010 (M444-38) (Only for NA)	3
	Fax Connection Unit Type M34 (D3EM-03)	6
2.	Replacement and Adjustment	13
	FCU Board	13
	Replacement Procedure	13
3.	Troubleshooting	20
	Error Codes	20
	Fax Connection Unit Error Codes	38
	Error Code - 01	38
	Error Code - 02	38
	Error Code - 03	38
	Error Code - 04	39
	Error Code - 05	39
	Error Code - 06	39
	Error Code - 07	39
	Error Code - 08	39
	Error Code - 09	40
	IFAX Troubleshooting	41
	IP-Fax Troubleshooting	
	IP-Fax Transmission	
	IP-Fax Reception	
4.	Service Tables	48
	Beforehand	48
	Service Tables	49
	SP1-XXX (Bit Switches)	49
	SP2-XXX (RAM)	
	SP3-XXX (Machine Set)	
	SP4-XXX (ROM Version)	50
	SP5-XXX (RAM Clear)	
	SP6-XXX (Report)	
	SP7-XXX (Tests)	52
	Bit Switches – 1	
	System Switches	
	Bit Switches – 2	
	I-Fax Switches	

	Printer Switches	69
	Bit Switches – 3	75
	Communication Switches	75
	Bit Switches – 4	83
	G3 Switches	83
	Bit Switches – 5	91
	IP Fax Switches	91
	NCU Parameters	98
	RAM Addresses	. 101
	Dedicated Transmission Parameters	. 112
	Programming Procedure	. 112
	Parameters	. 112
5.	Specifications	. 119
	General Specifications	. 119
	FCU	. 119
	Capabilities of Programmable Items	. 119
	IFAX Specifications	. 121
	IP-FAX Specifications	. 122
	Fax Unit Configuration	. 123

1. Installation

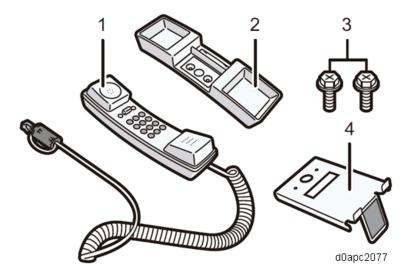
Fax Unit Options

Handset HS1010 (M444-38) (Only for NA)

Accessories

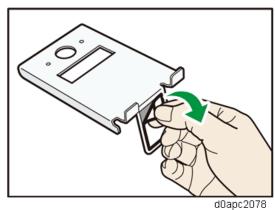
Installation of this unit requires the following components. Other components included in this kit are not used for installation on this machine.

No.	Description	Q'ty	Remarks
1	Handset with ferrite core	1	
2	Cradle	1	
3	Tapping screw	2	
4	Bracket	1	
-	Cable clamp	2	Not Used

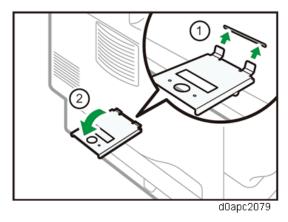


Installation Procedure

1. Remove the protective tape from the handset bracket.

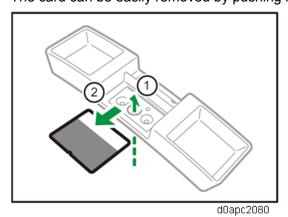


2. Attach the bracket to the left side of the machine, as shown below.

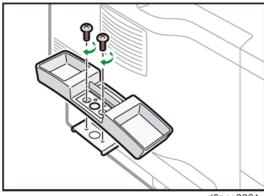


<u>**3.**</u> Remove the inquiry card from the handset cradle.

The card can be easily removed by pushing it from the back of the handset.

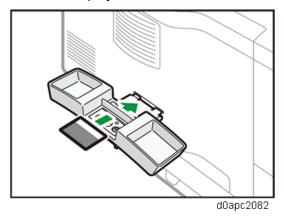


<u>4.</u> Fix the handset cradle to the handset bracket by turning the screws with a coin.

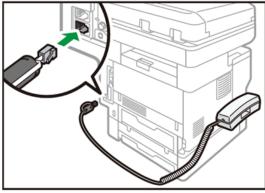


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<u>5.</u> Place the inquiry card back in the handset cradle.



<u>6.</u> Place the handset on the handset cradle, and connect the handset cord to the external telephone connector.



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Configuring the Handset

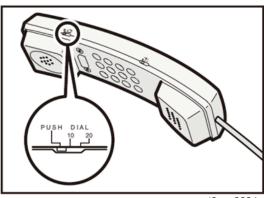
Selecting a telephone line type for the handset.

With a thin, pointed object, set the switch on the handset to the line type you are using.

• Push button phone: Push

• Dial phone: 10/20

1.Installation



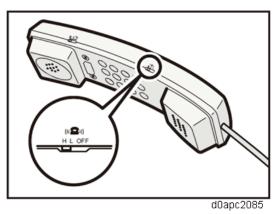
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Adjusting the handset bell volume

With a thin, pointed object, adjust the bell volume using the volume switch.

High: HLow: L

• No sound : OFF



Fax Connection Unit Type M34 (D3EM-03)

Overview of Fax Connection Unit

This unit allows a machine without the fax unit installed ("Client-side Machine") to send and receive faxes via a machine with the fax unit installed ("Remote Machine").

Requirements:

- Up to six machines can be registered as the Client-side Machines.
- Machines that have the fax unit installed cannot be used as the Client-side Machine.
- Only one machine can be registered as the Remote Machine.
- Firmware for this unit: "aics" (software number: D3A7759)
- Remote Fax transmissions are possible on a G3 line.
- The remote fax function does not support User Code Authentication. Disable the User Code Authentication on the Remote machine.
- Use this function to check the contents of a file that is stored in memory and not yet sent. Also, use

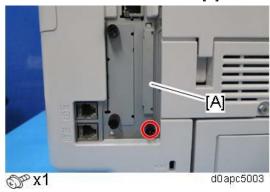
this function to cancel a transmission from the Client-side Machine.

Order of Fax Connection Unit installation procedure:

- 1. Install the Fax Connection Unit in the Remote Machine (fax unit installed).
- 2. Install the Fax Connection Unit in the Client-side Machine (no fax unit installed).
- 3. Register the Client-side Machine in the Remote Machine.
 - - Do not register the Remote Machine before the Client-side Machine is registered in the Remote Machine. Otherwise, registering the Remote Machine fails.
- 4. Register the Remote Machine in the Client-side Machine.

Installing the Fax Connection Unit in the Client-side and Remote Machines

1. Remove the SD card slot cover [A] from the SD card slots.



- 2. Insert the SD card (Fax Connection Unit Type M34) in SD slot 1 (upper) with its label face towards the front of the machine if SD slot 1 is vacant. If slot 1 is not vacant, follow "Moving a Fax Communication application into an SD card in SD slot 1" described below.
- **3.** Plug in, and then turn ON the main power.
- 4. Press [Firmware Version] in the [Administrator Tools].[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools]
- **<u>5.</u>** Check whether the aics version is displayed.

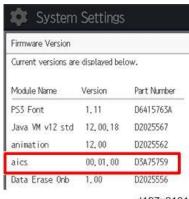


Moving a Fax Communication application into an SD card in SD slot 1

1. Insert the SD card (Fax Connection Unit Type M34) SD slot 2 (lower) with its label face towards the front of the machine. Then push it slowly into SD slot 2 (lower) until you hear a click.

1.Installation

- 2. Plug in, and then turn ON the main power.
- 3. Move the Fax Connection Unit application from the SD card in SD slot 2 (lower) to the SD card in SD slot 1 (upper) with SP5-873-001.
- 4. Turn OFF the main power.
- <u>5.</u> Remove the SD card from SD slot 2 (lower), and then keep it in a safe place (see "SD Card Appli Move" in the field service manual for the mainframe).
- 6. Attach the SD card slot cover, and then turn on the machine (x 1).
- 7. Turn ON the main power.
- <u>8.</u> Press [Firmware Version] in the [Administrator Tools].[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools]
- **9.** Check whether the aics version is displayed.



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Registering the Client Machine(s)

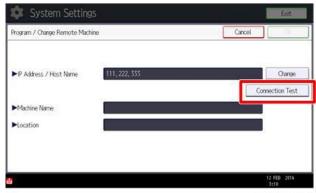


• Do not register the Remote Machine in the Client-side machine before the Client-side Machine is registered in the Remote Machine. Otherwise, registering the Remote Machine fails.

On the Remote Machine:

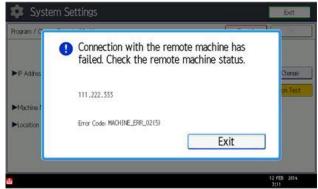
- 1. Press [User Tools] > [Machine Features] > [System Setting] > [Administrator Tools].
- 2. Press [Program/Change/Delete Remote Machine].
- <u>3.</u> Press one of the machine registration lines, and then enter the IP address or hostname of one of the Client-side Machines.

<u>4.</u> Press [Connection Test] to check the connection with the client-side machine.



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If an error message is displayed, check the network connection with the client-side machine and make sure that the IP address of the client-side machine is correct.



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<u>5.</u> Press [OK] after "Connection Test" has been successfully done.



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<u>6.</u> Press [Exit] to terminate the System Settings.

Registering the Remote Machine



• First, register the Client-side Machine in the Remote Machine before doing this procedure. Otherwise, registering the Remote Machine fails.



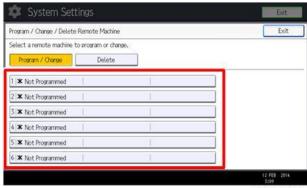
Only one machine can be registered as the Remote Machine.

On the Client-side Machine(s):

- 1. Press [User Tools] > [Machine Features] > [System Setting] > [Administrator Tools].
- 2. Press [Program/Change/Delete Remote Machine].
- 3. Enter the IP address or hostname of the Remote Machine.
- **<u>4.</u>** Press one of the machine registration lines, and then enter the IP address or hostname of the Remote Machine.

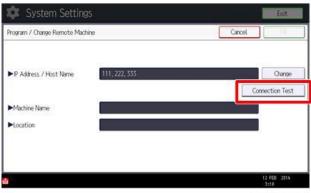


Only one machine can be registered as the Remote Machine.



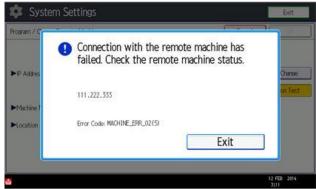
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5. Press [Connection Test] to check the connection with the remote machine.



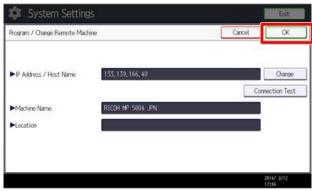
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If an error message is displayed, check the network connection with the remote machine and make sure that the IP address of the remote machine is correct.



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<u>6.</u> Press [OK] after "Connection Test" has been successfully done.



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7. Press [Exit] to terminate the System Settings.

Configuring the Remote Reception Settings

Do the following procedure to enable the Client-side Machine(s) to receive faxes via the Remote Machine. You can forward or route received documents per line or special sender.



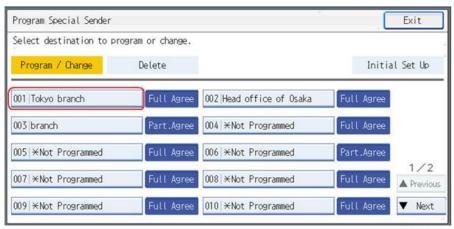
 By performing procedures described above (Installing the application in the Remote Machine and Client-side Machine, Registering the Client-side Machine(s), Registering the Remote Machine), the Client-side Machines can **send** faxes via the Remote Machine. The procedures shown below are necessary to enable the Client-side Machines to **receive** faxes.

On the Remote Machine:

- 1) If you use "Remote Reception Setting per Line"
- 1. Press [Facsimile Features].
- 2. Press [Remote Reception Setting per Line] in [Reception Settings].
- 3. Enter an IP address or a hostname of the client-side machine to connect.
- **4.** Press [Set], and [Exit] to exit from the setting.
- 2) If you use "Remote Reception per Sender"
- 1. Press [Facsimile Features].
- **2.** Press [Program Special Sender] in [Reception Settings].

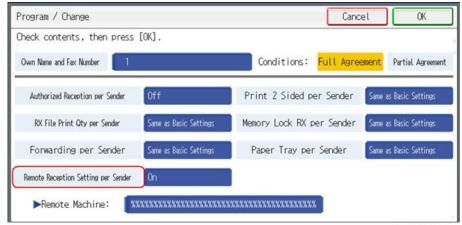
1.Installation

3. Select the Special Sender.



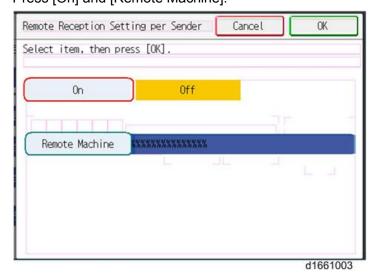
d1661001

4. Press [Remote Reception Setting per Sender].



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5. Press [On] and [Remote Machine].



<u>6.</u> Enter an IP address or a hostname of the client-side machine to connect.

7. Press [OK] to exit from the setting.

12

2. Replacement and Adjustment

FCU Board

The FCU board of the service part contains the following items included in the package.

- FCU board
- FFC
- Jumper
- Bracket

When you replace the FCU board, transfer the SRAM data from the old FCU board to the new FCU board.



The following data can be transferred:

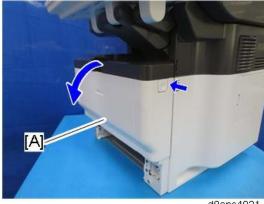
- TTI
- RTI
- CSI
- Fax bit switch settings
- RAM address settings
- NCU parameter settings.

Replacement Procedure

ACAUTION

Unplug the power cord before starting the following procedure.

- **1.** Remove the paper cassette.
- 2. Open the front cover [A] by pressing the front cover button.



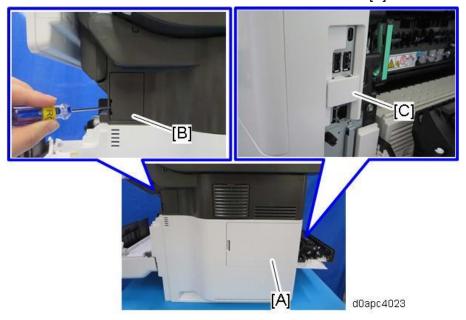
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2.Replacement and Adjustment

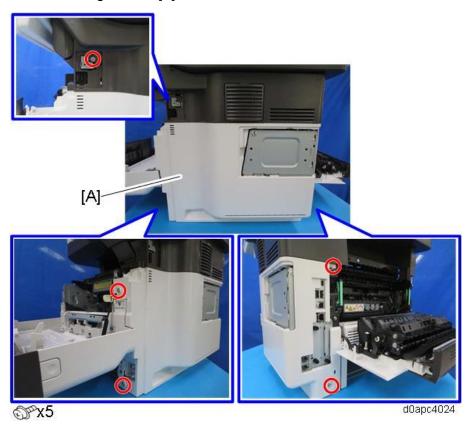
3. Open the rear cover [A].



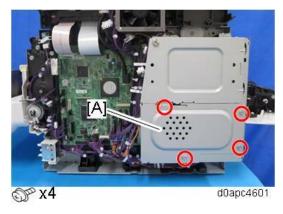
4. Remove the HDD cover [A] and the connector cover [B] and [C]. Use a flathead screwdriver to remove the connector cover [B].



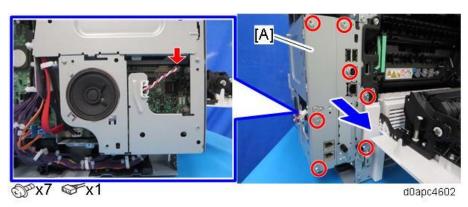
5. Remove the right cover [A].



<u>6.</u> Remove the controller box lower cover [A].

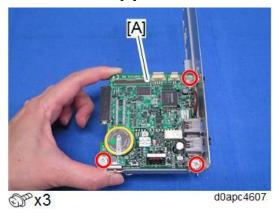


7. Disconnect the harness, and then pull out the interface cover [A] to remove it.

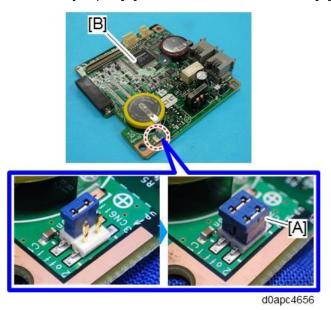


2.Replacement and Adjustment

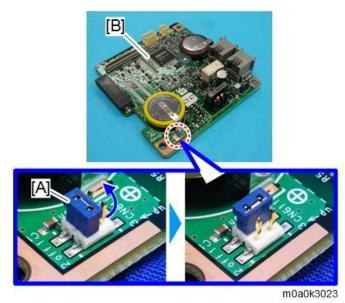
8. Remove the FCU [A].



<u>9.</u> Attach the jumper [A] on the removed FCU board [B]. The jumper comes with the new FCU board.



10. Change the position of the battery jumper [A] on the new FCU board [B]. If the battery jumper is not in the correct position, SC820 will occur.



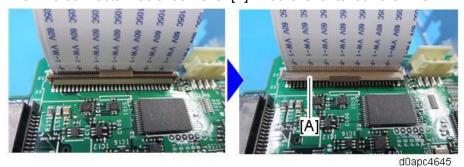
- **11.** Attach the new FCU board to the interface cover.
- 12. Attach the interface cover to the machine, and then connect the harness.
- 13. Connect one end of the supplied FFC [A] into the CN603 connector [B] on the new FCU board.

 Make sure that the blue tape of the flat cable faces outward.

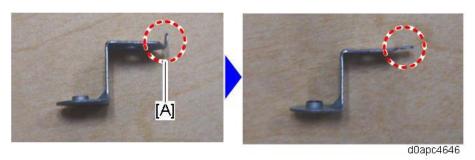




The FFC connector has a lock lever [A]. Tilt the lever to lock the FFC.

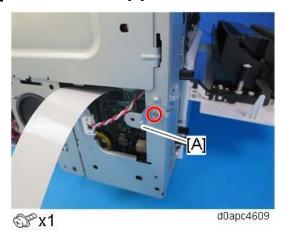


14. Use a pair of radio pliers to flatten the tab [A] against the bracket provided with the new FCU board.

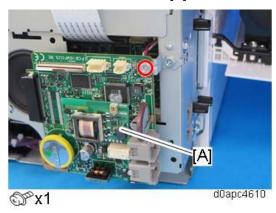


2.Replacement and Adjustment

15. Attach the bracket [A] above to the controller box.



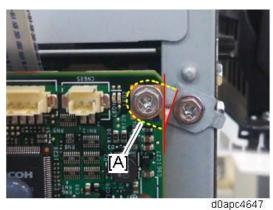
16. Attach the old FCU board [A] to the bracket temporarily.



U Note

Mount the PCB and bracket so both are horizontal.

If the contact surface of bracket [A] cuts into the base plate as shown below, this could cause a short circuit between the element and the bracket and damage the PCB.



17. Connect the other end of the FFC [A] into the CN603 connector on the old FCU board.

Make sure that the blue tape of the flat cable faces outward.





The FFC connector has the lock lever [A], so tilt the lever to lock the FFC.

- 18. Turn the main power ON.
- 19. The SRAM data transfer begins. Transfer is complete when a beep sounds.



- The volume of the beeping is set to the same level as the speaker volume.
- If the speaker volume is set to off, the volume of the beeping is set to its initial factory-set level.
- If the machine does not beep, turn the main power OFF and then ON, and attempt data transfer again. Try several times if necessary.
- Be sure to check the transfer result after executing data transfer. If the transfer has failed, you need to specify settings manually in the SP mode.
- **20.** When "Ready" is displayed on the control panel, turn the power OFF, and remove the AC power plug from the receptacle.
- 21. Disconnect the FFC from both FCU boards, and then remove the old FCU board with the bracket.
- 22. Reattach the covers.
- 23. Turn the main power ON.
- **24.** Enter the SP mode.
- **25.** Print the system parameter list from SP6-101 in the Fax SP menu, and then check the list to see whether the SRAM data has been transferred correctly.
- **26.** Set the correct date and time from the [User Tools].

User Tools > Machine Features > System Settings > Timer Setting > Set Date/Time



If any of the SRAM data was not transferred, input those settings manually.

Error Codes

If an error code occurs, retry the communication. If the same problem occurs, try to fix the problem as suggested below. Note that some error codes appear only in the error code display and on the service report.

Code	Meaning	Suggested Cause/Action
0-00	DIS/NSF not detected within 40 s of Start being pressed	 Check the line connection. The machine at the other end may be incompatible. Replace the FCU. Check for DIS/NSF with an oscilloscope. If the rx signal is weak, there may be a bad line.
0-01	DCN received unexpectedly	 The other party is out of paper or has a jammed printer. The other party pressed Stop during communication.
0-03	Incompatible modem at the other end	The other terminal is incompatible.
0-04	CFR or FTT not received after modem training	 Check the line connection. Try changing the tx level and/or cable equalizer settings. Replace the FCU. The other terminal may be faulty; try sending to another machine. If the rx signal is weak or defective, there may be a bad line. Cross-reference Tx level - NCU Parameter 01 (PSTN) Cable equalizer - G3 Switch 07 (PSTN) Dedicated Tx parameters in Service Program Mode
0-05	Modem training fails even G3 shifts down to 2400 bps.	 Check the line connection. Try adjusting the tx level and/or cable equalizer. Replace the FCU. Check for line problems. Cross-reference See error code 0-04.

Code	Meaning	Suggested Cause/Action
0-06	The other terminal did not reply to	Check the line connection.
	DCS	Try adjusting the tx level and/or cable equalizer
		settings.
		Replace the FCU.
		The other end may be defective or
		incompatible; try sending to another machine.
		Check for line problems.
		Cross-reference
		See error code 0-04.
0-07	No post-message response from the	Check the line connection.
	other end after a page was sent	Replace the FCU.
		The other end may have jammed or run out of
		paper.
		The other end user may have disconnected the
		call.
		Check for a bad line.
		The other end may be defective; try sending to
		another machine.
0-08	The other end sent RTN or PIN after	Check the line connection.
	receiving a page because there were	Replace the FCU.
	too many errors	The other end may have jammed, or run out of
		paper or memory space.
		 Try adjusting the tx level and/or cable equalizer settings.
		The other end may have a defective
		modem/FCU; try sending to another machine.
		Check for line problems and noise.
		Cross-reference
		Tx level - NCU Parameter 01 (PSTN)
		Cable equalizer - G3 Switch 07 (PSTN)
		Dedicated Tx parameters in Service Program
		Mode
0-14	Non-standard post message response	Incompatible or defective remote terminal; try
	code received	sending to another machine.
		Noisy line: resend.
		Try adjusting the tx level and/or cable equalizer
		settings.
		Replace the FCU.

Code	Meaning	Suggested Cause/Action
		Cross-reference
		See error code 0-08.
0-15	The other terminal is not capable of	The other terminal is not capable of accepting the
	specific functions.	following functions, or the other terminal's memory
		is full.
		Confidential rx
		Transfer function
		SEP/SUB/PWD/SID
0-16	CFR or FTT not detected after modem	Check the line connection.
	training in confidential or transfer	Replace the FCU.
	mode	Try adjusting the tx level and/or cable equalizer
		settings.
		The other end may have disconnected, or it
		may be defective; try calling another machine.
		If the rx signal level is too low, there may be a
		line problem.
		Cross-reference
		See error code 0-08.
0-17	Communication was interrupted by	If the Stop key was not pressed and this error
	pressing the stop key	keeps occurring, replace the operation panel or
		the operation panel drive board.
0-20	Facsimile data not received within 6 s	Check the line connection.
	of retraining	Replace the FCU.
		Check for line problems.
		Try calling another fax machine.
		Try adjusting the reconstruction time for the first
		line and/or rx cable equalizer setting.
		Cross-reference
		Reconstruction time - G3 Switch 0A, bit 6
		Rx cable equalizer - G3 Switch 07 (PSTN)
0-21	EOL signal (end-of-line) from the	Check the connections between the FCU and
	other end not received within 5 s of	the line.
	the previous EOL signal	Check for line noise or other line problems.
		Replace the FCU.
		The remote machine may be defective or may
		have disconnected.
		Cross-reference
		Maximum interval between EOLs and between

Code	Meaning	Suggested Cause/Action
		ECM frames - G3 Bit Switch 0A, bit 4
0-22	The signal from the other end was	Check the line connection.
	interrupted for more than the	Replace the FCU.
	acceptable modem carrier drop time	Defective remote terminal.
	(default: 200 ms)	Check for line noise or other line problems.
		Try adjusting the acceptable modem carrier
		drop time.
		Cross-reference
		Acceptable modem carrier drop time - G3
		Switch 0A, bits 0 and 1
0-23	Too many errors during reception	Check the line connection.
		Replace the FCU.
		Defective remote terminal
		Check for line noise or other line problems.
		Try asking the other end to adjust their tx level.
		Try adjusting the rx cable equalizer setting
		and/or rx error criteria.
		Cross-reference
		Rx cable equalizer - G3 Switch 07 (PSTN)
		Rx error criteria - Communication Switch 02,
		bits 0 and 1
0-29	Data block format failure in ECM	Check for line noise or other line problems.
	reception	Check the FCU - NCU connectors.
		Replace the NCU or FCU.
0-30	The other terminal did not reply to	Check the line connection.
	NSS(A) in AI short protocol mode	Try adjusting the tx level and/or cable equalizer
		settings.
		The other terminal may not be compatible.
		Cross-reference
		Dedicated tx parameters - Section 4
0-32	The other terminal sent a DCS, which	Check the protocol dump list.
	contained functions that the receiving	Ask the other party to contact the manufacturer.
	machine cannot handle.	
0-33	The data reception (not ECM) is not	Check the line connection.
	completed within 10 minutes.	The other terminal may have a defective
		modem/FCU.
0-52	Polarity changed during	Check the line connection.
	communication	Retry communication.

Code	Meaning	Suggested Cause/Action
0-55	FCU does not detect the SG3.	FCU firmware or board defective.
		SG3 firmware or board defective.
0-56	The stored message data exceeds	SG3 firmware or board defective.
	the capacity of the mailbox in the	
	SG3.	
0-70	The communication mode specified in	The other terminal did not have a compatible
	CM/JM was not available	communication mode (e.g., the other terminal
	(V.8 calling and called terminal)	was a V.34 data modem and not a fax modem.)
		A polling tx file was not ready at the other
		terminal when polling rx was initiated from the
		calling terminal.
0-74	The calling terminal fell back to T.30	The calling terminal could not detect ANSam
	mode because it could not detect	due to noise, etc.
	ANSam after sending CI.	ANSam was too short to detect.
		Check the line connection and condition.
		Try making a call to another V.8/V.34 fax.
0-75	The called terminal fell back to T.30	The terminal could not detect ANSam.
	mode, because it could not detect a	Check the line connection and condition.
	CM in response to ANSam (ANSam	Try receiving a call from another V.8/V.34 fax.
	timeout).	
0-76	The calling terminal fell back to T.30	The called terminal could not detect a CM due
	mode, because it could not detect a	to noise, etc.
	JM in response to CM	Check the line connection and condition. The state of the state
0.77	(CM timeout).	Try making a call to another V.8/V.34 fax.
0-77	The called terminal fell back to T.30	The calling terminal could not detect a JM due
	mode, because it could not detect a	to noise, etc.
	CJ in response to JM	A network that has narrow bandwidth cannot page IM to the other and
	(JM timeout).	pass JM to the other end.Check the line connection and condition.
		T ': " " " " ' ' ' ' ' ' ' ' ' ' ' ' ' '
0-79	The called terminal detected CI while	 Try receiving a call from another V.8/V.34 fax. Check for line noise or other line problems.
0-73	waiting for a V.21 signal.	If this error occurs, the called terminal falls back
	waiting for a v.21 signal.	to T.30 mode.
0-80	The line was disconnected due to a	The guard timer expired while starting these
	timeout in V.34 phase 2 – line probing.	phases. Serious noise, narrow bandwidth, or
0-81	The line was disconnected due to a	low signal level can cause these errors.
	timeout in V.34 phase 3 – equalizer	If these errors happen at the transmitting terminal:
	training.	Try making a call at a later time.
24		, . <u>G</u>

Code	Meaning	Suggested Cause/Action
0-82	The line was disconnected due to a	Try using V.17 or a slower modem using
	timeout in the V.34 phase 4 – control	dedicated tx parameters.
	channel start-up.	Try increasing the tx level.
0-83	The line was disconnected due to a	Try adjusting the tx cable equalizer setting.
	timeout in the V.34 control channel	If these errors happen at the receiving terminal:
	restart sequence.	Try adjusting the rx cable equalizer setting.
		Try increasing the tx level.
		Try using V.17 or a slower modem if the same
		error is frequent when receiving from multiple
		senders.
0-84	The line was disconnected due to	The signal did not stop within 10 s.
	abnormal signaling in V.34 phase 4 –	Turn off the machine, then turn it back on.
	control channel start-up.	If the same error is frequent, replace the FCU.
0-85	The line was disconnected due to	The signal did not stop within 10 s.
	abnormal signaling in V.34 control	Turn off the machine, then turn it back on.
	channel restart.	If the same error is frequent, replace the FCU.
0-86	The line was disconnected because	The other terminal was incompatible.
	the other terminal requested a data	Ask the other party to contact the manufacturer.
	rate using MPh that was not available	
	in the currently selected symbol rate.	
0-87	The control channel started after an	The receiving terminal restarted the control
	unsuccessful primary channel.	channel because data reception in the primary
		channel was not successful.
		This does not result in an error communication.
0-88	The line was disconnected because	Try using a lower data rate at the start.
	PPR was transmitted/received 9	Try adjusting the cable equalizer setting.
	(default) times within the same ECM	
	frame.	
2-11	Only one V.21 connection flag was	Replace the FCU.
	received	
2-12	Modem clock irregularity	Replace the FCU.
2-13	Modem initialization error	Turn off the machine, then turn it back on.
		Update the modem ROM.
		Replace the FCU.
2-22	Counter overflow error of JBIG chip	If this error occurs frequently, change the
		settings for resolution, paper size and
		compression type.
2-23	JBIG compression or reconstruction	Turn off the machine, then turn it back on.

Code	Meaning		Suggested Cause/Action	
	error			
2-24	JBIG ASIC error	•	Turn off the machine, then turn it back on.	
2-25	JBIG data reconstruction error (BIH	•	JBIG data error	
	error)	•	Check the sender's JBIG function.	
2-26	JBIG data reconstruction error (Float	•	Update the MBU ROM.	
	marker error)			
2-27	JBIG data reconstruction error (End			
	marker error)			
2-28	JBIG data reconstruction error			
	(Timeout)			
2-29	JBIG trailing edge maker error	•	FCU defective	
		•	Check the destination device.	
2-50	The machine resets itself for a fatal	•	If this is frequent, update the ROM, or replace	
	FCU system error		the FCU.	
2-51	The machine resets itself because of	•	If this is frequent, update the ROM, or replace	
	a fatal communication error		the FCU.	
2-53	Snd msg() in the manual task is an	•	The user did the same operation many times,	
	error because the mailbox for the		and this gave too much load to the machine.	
	operation task is full.			
4-01	Line current was cut	•	Check the line connector.	
		•	Check for line problems.	
		•	Replace the FCU.	
4-10	Communication failed because of an	•	Get the ID Codes the same and/or the CSIs	
	ID Code mismatch (Closed Network)		programmed correctly, then resend.	
	or Tel. No./CSI mismatch (Protection	•	The machine at the other end may be defective.	
	against Wrong Connections)			
5-00	Data reconstruction not possible	•	Replace the FCU	
5-10	DCR timer expired	•	Replace the FCU.	
5-20	Storage impossible because of a lack	•	Temporary memory shortage.	
	of memory	•	Test the SAF memory.	
5-21	Memory overflow		0.5	
5-23	Print data error when printing a	•	Test the SAF memory.	
	substitute rx or confidential rx	•	Ask the other end to resend the message.	
.	message			
5-25	SAF file access error	•	Replace an SD card or HDD.	
0.00	00 5014 74 11	•	Replace the FCU.	
6-00	G3 ECM - T1 time out during	•	Try adjusting the rx cable equalizer.	

Code	Meaning	Suggested Cause/Action	
	reception of facsimile data	Replace the FCU.	
6-01	G3 ECM - no V.21 signal was		
	received		
6-02	G3 ECM - EOR was received		
6-04	G3 ECM - RTC not detected	Check the line connection.	
		Check for a bad line or defective remote	
		terminal.	
		Replace the FCU.	
6-05	G3 ECM - facsimile data frame not	Check the line connection.	
	received within 18 s of CFR, but there	Check for a bad line or defective remote	
	was no line fail	terminal.	
		Replace the FCU.	
		Try adjusting the rx cable equalizer	
		Cross reference	
		Rx cable equalizer - G3 Switch 07 (PSTN)	
6-06	G3 ECM - coding/decoding error	Defective FCU.	
		The other terminal may be defective.	
6-08	G3 ECM - PIP/PIN received in reply to	The other end pressed Stop during	
	PPS.NULL	communication.	
		The other terminal may be defective.	
6-09	G3 ECM - ERR received	Check for a noisy line.	
		Adjust the tx levels of the communicating	
		machines.	
		See code 6-05.	
6-10	G3 ECM - error frames still received	Check for line noise.	
	at the other end after all	Adjust the tx level (use NCU parameter 01 or	
	communication attempts at 2400 bps	the dedicated tx parameter for that address).	
		Check the line connection.	
		Defective remote terminal.	
6-21	V.21 flag detected during high speed	The other terminal may be defective or	
	modem communication	incompatible.	
6-22	The machine resets the sequence	Check for line noise.	
	because of an abnormal handshake in	If the same error occurs frequently, replace the	
	the V.34 control channel	FCU.	
		Defective remote terminal.	
6-99	V.21 signal not stopped within 6 s	Replace the FCU.	
9-30	HDD write error	Check the connection of the HDD.	

Code	Meaning	Suggested Cause/Action
9-31	HDD control error	If the problem persists, replace the HDD and/or
9-32	HDD read error	harness.
9-33	HDD fatal error	
13-	SIP user name registration error	Double registration of the SIP user name.
17		Capacity for user-name registration in the SIP
		server is not sufficient.
13-	SIP server access error	Incorrect initial setting for the SIP server.
18		Defective SIP server.
13-	SIP authentication error	Registered password in the device does not
24		match the password in the SIP server.
13-	Network I/F setting error	IPV4 is not active in the active protocol setting.
25		IP address of the device is not registered.
13-	Network I/F setting error at power on	Active protocol setting does not match the I/F
26		setting for SIP server.
		IP address of the device is not registered.
13-	IP address setting error	IP address of the device is not registered.
27		
14-	SMTP Send Error	Error occurred during sending to the SMTP
00		server. Occurs for any error other than 14-01 to
		16. For example, the mail address of the
		system administrator is not registered.
14-	SMTP Connection Failed	Failed to connect to the SMTP server (timeout)
01		because the server could not be found.
		The PC is not ready to transfer files.
		SMTP server not functioning correctly.
		The DNS IP address is not registered.
		Network not operating correctly.
		Destination folder selection not correct.
14-	No Service by SMTP Service (421)	SMTP server operating incorrectly, or the
02		destination for direct SMTP sending is not
		correct.
		Contact the system administrator and check
		that the SMTP server has the correct settings
		and operates correctly.
		Contact the system administrator for direct
		SMTP sending and check the sending
		destination.

Code	Meaning	Suggested Cause/Action
14-	Access to SMTP Server Denied (450)	Failed to access the SMTP server because the
03		access is denied.
		SMTP server operating incorrectly. Contact the
		system administrator to determine if there is a
		problem with the SMTP server and to check
		that the SMTP server settings are correct.
		Folder send destination is incorrect. Contact the
		system administrator to determine that the
		SMTP server settings and path to the server
		are correct.
		Device settings incorrect. Confirm that the user
		name and password settings are correct.
		Direct SMTP destination incorrect. Contact the
		system administrator to determine if there is a
		problem at the destination at that the settings at
		the destination are correct.
14-	Access to SMTP Server Denied (550)	SMTP server operating incorrectly
04		Direct SMTP sending not operating correctly
14-	SMTP Server HDD Full (452)	Failed to access the SMTP server because the
05		HDD on the server is full.
		Insufficient free space on the HDD of the SMTP
		server. Contact the system administrator and
		check the amount of space remaining on the
		SMTP server HDD.
		Insufficient free space on the HDD where the
		destination folder is located. Contact the system
		administrator and check the amount of space
		remaining on the HDD where the target folder is
		located.
		Insufficient free space on the HDD at the target
		destination for SMTP direct sending. Contact
		the system administrator and check the amount
44	Haan Nat Found on OMTD On a	of space remaining on the target HDD.
14-	User Not Found on SMTP Server	The designated user does not exist. The designated user does not exist on the
06	(551)	The designated user does not exist on the SMTD conver
		SMTP server.
		The designated address is not for use with direct SMTP conding.
		direct SMTP sending.

Code	Meaning		Suggested Cause/Action
14-	Data Send to SMTP Server Failed	•	Failed to access the SMTP server because the
07	(4XX)		transmission failed.
		•	PC not operating correctly.
		•	SMTP server operating incorrectly
		•	Network not operating correctly.
		•	Destination folder setting incorrect.
		•	Direct SMTP sending not operating correctly.
14-	Data Send to SMTP Server Failed	•	Failed to access the SMTP server because the
08	(5XX)		transmission failed.
		•	SMTP server operating incorrectly
		•	Destination folder setting incorrect.
		•	Direct SMTP sending not operating correctly.
		•	Software application error.
14-	Authorization Failed for Sending to	•	POP-Before-SMTP or SMTP authorization
09	SMTP Server		failed.
		•	Incorrect setting for file transfer
14-	Addresses Exceeded	•	Number of broadcast addresses exceeded the
10			limit for the SMTP server.
14-11	Buffer Full	•	The send buffer is full so the transmission could
			not be completed. Buffer is full due to using
			Scan-to-Email while the buffer is being used
			send mail at the same time.
14-	Data Size Too Large	•	Transmission was cancelled because the
12			detected size of the file was too large.
14-	Send Cancelled	•	Processing is interrupted because the user
13			pressed Stop.
14-	Security Locked File Error	•	Update the software because of the defective
14			software.
14-	Mail Data Error	•	The transmitting a mail is interrupted via DCS
15			due to the incorrect data.
		•	Update the software because of the defective
			software.
14-	Maximum Division Number Error	•	When a mail is divided for the mail transmission
16			and the division number of a mail are more than
			the specified number, the mail transmission is
			interrupted.
		•	Update the software because of the defective
			software.

Code	Meaning	Suggested Cause/Action
14-	Incorrect Ticket	Update the software because of the defective
17		software.
14-	Access to MCS File Error	The access to MCS file is denied due to the no
18		permission of access.
		Update the software because of the defective
		software.
14-	SMTP Authentication Error	Make sure that the administrator's e-mail
20		address is the same as the SMTP
		authentication address or POP before SMTP
		address.
14-	Transmission error of S/MIME	Register the correct user certificate and device
21		certificate.
14-	MCS File Creation Failed	Failed to create the MCS file because:
30		The number of files created with other
		applications on the Document Server has
		exceeded the limit.
		HDD is full or not operating correctly.
		Software error.
14-	UFS File Creation Failed	UFS file could not be created:
31		Not enough space in UFS area to handle both
		Scan-to-Email and IFAX transmission.
		HDD full or not operating correctly.
		Software error.
14-	Cancelled the Mail Due to Error	Error detected with NFAX and send was
32	Detected by NFAX	cancelled due to a software error.
14-	No Mail Address For the Machine	Neither the mail address of the machine nor the
33		mail address of the network administrator is
		registered.
14-	Address designated in the domain for	Operational error in normal mail sending or
34	SMTP sending does not exist	direct SMTP sending.
		Check the address selected in the address
		book for SMTP sending.
		Check the domain selection.
14-	Mail Job Task Error	Due to an FCU mail job task error, the send was
50		cancelled:
		Address book was being edited during creation
		of the notification mail.
		Software error.

Code	Meaning	Suggested Cause/Action
14-	UCS Destination Download Error	Not even one return notification can be downloaded:
51		The address book was being edited.
		The number for the specified destination does
		not exist (it was deleted or edited after the job
		was created).
14-	Send Cancel Failed	The cancel operation by the user failed to
60		cancel the send operation.
14-	Notification Mail Send Failed for All	All addresses for return notification mail failed.
61	Destinations	
14-	Transmission Error due to the	When the 0 line page exists in received pages
62	existence of zero line page	with G3 communication, the transmission is
		interrupted.
14-	Fax Communication Unit:	Check the followings.
63	Transmission Error	Name of SMTP server
		Port number of SMTP
		DNS setting
		Server name (FTP)
		Path name (computer name and shared folder
		name at SMTP/ NCP)
		Active protocol setting (Netware/ NCP)
		NW flame type (NCP)
		Log-on mode (NDS tree/ bindery)
		Check the SMTP server.
		Check if the SMTP server works normally and
		is connected to the network.
		Check if the settings of the SMTP are correct.
		Check the DNS server.
		Check if the DNS server works normally and is
		connected to the network.
		Check if the settings of the DNS server are
		correct.
		Check the network.
		Check if the LAN works normally.
		Check if the no firewall exists.
		Check the destination folder for the data transfer.
		Check if the destination folder works normally.
		Check if the settings of the destination folder
		are correct.

Code	Meaning	Suggested Cause/Action
		Ask an administrator of the direct SMTP server in
		which the data is supposed to be transferred.
		Check if the destination SMTP server works
		normally.
		Check if the settings of the destination SMTP
		server are correct.
15-	POP3/IMAP4 Server Not Registered	At startup, the system detected that the IP
01		address of the POP3/IMAP4 server has not
		been registered in the machine.
15-	POP3/IMAP4 Mail Account	The POP3/IMAP4 mail account has not been
02	Information Not Registered	registered.
15-	Mail Address Not Registered	The mail address has not been registered.
03		
15-	DCS Mail Receive Error	• Error other than 15-11 to 15-18.
10		
15-11	Connection Error	The DNS or POP3/IMAP4 server could not be
		found:
		The IP address for DNS or POP3/IMAP4 server
		is not stored in the machine.
		The DNS IP address is not registered.
		Network not operating correctly.
15-	Authorization Error	POP3/IMAP4 send authorization failed:
12		Incorrect IFAX user name or password.
		Access was attempted by another device, such
		as the PC.
		POP3/IMAP4 settings incorrect.
15-	Receive Buffer Full	Occurs only during manual reception.
13		Transmission cannot be received due to
		insufficient buffer space. The buffer is being
		used for mail send or Scan-to-Email.
15-	Mail Header Format Error	The mail header is not standard format. For
14		example, the Date line description is incorrect.
15-	Mail Divide Error	The e-mail is not in standard format. There is
15		no boundary between parts of the e-mail,
		including the header.
15-	Mail Size Receive Error	The mail cannot be received because it is too
16		large.
15-	Receive Timeout	May occur during manual receiving only

Code	Meaning	Suggested Cause/Action
17	<u> </u>	because the network is not operating correctly.
15-	Incomplete Mail Received	Only one portion of the mail was received.
18		
15-	Final Destination for Transfer Request	The format of the final destination for the
31	Reception Format Error	transfer request was incorrect.
15-	Send/Delivery Destination Error	The transmission cannot be delivered to the final
39		destination:
		Destination file format is incorrect.
		Could not create the destination for the file
		transmission.
15-	SMTP Receive Error	Reception rejected because the transaction
41		exceeded the limit for the "Auth. E-mail RX"
		setting.
15-	Off Ramp Gateway Error	The delivery destination address was specified
42		with Off Ramp Gateway OFF.
15-	Address Format Error	Format error in the address of the Off Ramp
43		Gateway.
15-	Addresses Over	The number of addresses for the Off Ramp
44		Gateway exceeded the limit of 30.
15-	Attachment File Format Error	The attached file is not TIFF format.
61		
15-	TIFF File Compatibility Error	Could not receive transmission due to:
62		Resolution error
		 Image of resolution greater than 200 dpi without extended memory.
		Resolution is not supported.
		Page size error
		The page size was larger than A3.
		Compression error
		File was compressed with other than MH, MR,
		or MMR.
15-	TIFF Parameter Error	The TIFF file sent as the attachment could not be
63		received because the TIFF header is incorrect:
		The TIFF file attachment is a type not
		supported.
		The TIFF file attachment is corrupted.
		Software error.
15-	TIFF Decompression Error	The file received as an attachment caused the TIFF

Code	Meaning	Suggested Cause/Action	
64		decompression error:	
		The TIFF format of the attachment is corrupted.	
		Software error.	
15-	Not Binary Image Data	The file could not be received because the	
71		attachment was not binary image data.	
15-	MDN Status Error	Could not find the Disposition line in the header	
73		of the Return Receipt, or there is a problem with	
		the firmware.	
15-	MDN Message ID Error	Could not find the Original Message ID line in	
74		the header of the Return Receipt, or there is a	
		problem with the firmware.	
15-	Mail Job Task Read Error	Could not receive the transmission because the	
80		destination buffer is full and the destination	
		could not be created (this error may occur when	
		receiving a transfer request or a request for	
		notification of reception).	
15-	Repeated Destination Registration	Could not repeat receive the transmission	
81	Error	because the destination buffer is full and the	
		destination could not be created (this error may	
		occur when receiving a transfer request or a	
		request for notification of reception).	
15-	Send Registration Error	Could not receive the file for transfer to the final	
91		destination:	
		The format of the final destination or the	
		transfer destination is incorrect.	
		Destinations are full so the final and transfer	
		destinations could not be created.	
15-	Memory Overflow	Transmission could not be received because	
92		memory overflowed during the transaction.	
15-	Memory Access Error	Transaction could not complete due to a	
93		malfunction of SAF memory.	
15-	Incorrect ID Code	The machine rejected an incoming e-mail for	
94		transfer request, because the ID code in the	
		incoming e-mail did not match the ID code	
		registered in the machine.	
15-	Transfer Station Function	The machine rejected an incoming e-mail for	
95		transfer because the transfer function was	
		unavailable.	

Code	Meaning		Suggested Cause/Action
16-	No IP address registered	•	The machine does not get an IP address
00			because the DNS server has not been
			registered for the remote machine or IP address
			of the remote machine has not been registered.
		•	Register the DNS server for the remote
			machine or configure an IP address of the
			remote machine.
22-	Original length exceeded the	•	Divide the original into more than one page.
00	maximum scan length	•	Check the resolution used for scanning. Lower
			the scan resolution if possible.
		•	Add optional page memory.
22-	Memory overflow while receiving	•	Wait for the files in the queue to be sent.
01		•	Delete unnecessary files from memory.
		•	Transfer the substitute reception files to an
			another fax machine, if the machine's printer is
			busy or out of order.
		•	Add an optional SAF memory card or hard disk.
22-	Tx or rx job stalled due to line	•	The job started normally but did not finish
02	disconnection at the other end		normally; data may or may not have been
			received fully.
		•	Restart the machine.
22-	The machine cannot store received	•	Update the ROM
04	data in the SAF	•	Replace the FCU.
22-	No G3 parameter confirmation answer	•	Defective FCU board or firmware.
05			
22-	The fax number / e-mail address	•	Software error.
06	entered or selected by the user does		Install lateset FCU firmware.
	not match that of the destination. (This	•	FCU board defective
	may occur because of a bug.)		Replace the FCU.
22-	File to send missing during IP-Fax /		
07	Internet Fax / Scan to Email / Scan to		
	Folder transmission.		
22-	File missing when printing the		
08	configuration page.		
22-	File missing when receiving fax.		
09			
22-	File missing is when storing a		
10	received fax file.		

Code	Meaning	Suggested Cause/Action		
23-	Data read timeout during construction	•	Restart the machine.	
00		•	Replace the FCU.	
25-	The machine software resets itself	•	Update the ROM	
00	after a fatal transmission error	•	Replace the FCU.	
	occurred			
F0-xx	V.34 modem error	•	Replace the FCU.	
F6-xx	SG3 modem error	•	Update the SG3 modem ROM.	
		•	Replace the SG3 board.	
		•	Check for line noise or other line problems.	
		•	Try communicating another V.8/V.34 fax.	

Fax Connection Unit Error Codes

Error Code - 01

Error	Suggested Cause	Action
Code		
01(1)	IPv4/IPv6 not enabled	Enable IPv4 and IPv6
01(3)	"Cancel" is pressed by user.	-
01(4)	A false connection ID is being used.	Check that the network is
01(5)	Network disconnected because of no response within	established.
	a specified time.	
01(14)	The machine either of destination or of local is	Exit SP or initial setting.
	entering SP or Initial setting.	Wait until the connection
	An established connection exists.	has finished.

Error Code - 02

Error Code		Suggested Cause		Action
02(5)	•	Wrong IP address/hostname is used	•	Enter the correct IP address/hostname
	•	The machine at destination power off	•	Turn on the main power.
	•	LAN cable is disconnected	•	Connect the LAN cable
	•	Network is rebooting.	•	Wait until the rebooting has finished.

Error Code - 03

Error		Suggested Cause	Action	
Code				
03	•	No user authentication applies for fax application (i.e. Basic/Windows/LDAP/Custom Auth.) Settings other than user authentication are applied to the fax application.	Configure the user a setting for client-side Machine as the follow Client-side Machine OFF	e and Remote
			ON	ON

Error Code - 04

Error	Suggested Cause		Action
Code			
04	Although the same user registered to the Remote	•	Register the same user to
	Machine and Client-side Machine, the user name and		both the Remote Machine and
	password for login are unmatched between the two		Client-side Machine.
	locations.	•	Be sure to match the
			username and password for
			login between the two
			locations.

Error Code - 05

Error	Suggested Cause	Action
Code		
05	An unauthorized user connects to the fax	Authorize the user to use fax
	connection.	connection.

Error Code - 06

Error	Suggested Cause	Action
Code		
06	Timeout error on the node	Adjust the value of SP5-741-001 to prolong the timeout
	authentication	for node authentication.

Error Code - 07

Error	Suggested Cause	Action
Code		
07	Multiple destinations are set in the	In the Client-side Machine, execute SP5-801-
	Client-side Machine.	021 to clear AICS memory

Error Code - 08

Error	Suggested Cause			Action
Code				
08(1)	•	A Client-side Machine connects to other	•	Connect to the Remote Machine.
		Client-side Machine.	•	Register the Client-side Machine to
	•	The Client-side Machine not registered in		the Remote Machine as a destination.
		the Remote Machine as destinations.		

Error	Suggested Cause			Action
Code				
08(2)	•	A Remote Machine connects to other	•	Connect to the Client-side Machine.
		Remote Machine.	•	Check what Remote Machine
	•	Wrong Remote Machine registered in the		registered in the Client-side Machine.
		Client-side Machine.		

Error Code - 09

Error	Suggested Cause	Action
Code		
09	Capacity of the HDD of the Remote	Increase the remaining capacity of the HDD of
	Machine is full.	the Remote Machine.

IFAX Troubleshooting

Use the following procedures to determine whether the machine or another part of the network is causing the problem.

Communication	Item	Action [Remarks]
Route		
General LAN	1. Connection with the	Check that the LAN cable is connected to the
	LAN	machine.
		Check that the LEDs on the hub are lit.
	2. LAN activity	Check that other device connected to the LAN can
		communicate through the LAN.
Between IFAX and	1. Network settings on	Check the network settings on the PC.
PC	the PC	[Is the IP address registered in the TCP/IP
		properties in the network setup correct?
		Check the IP address with the administrator of the
		network.]
	2. Check that PC can	Use the "ping" command on the PC to contact
	connect with the	the machine.
	machine	[At the MS-DOS prompt, type ping then the IP
		address of the machine, then press Enter.]
	3. LAN settings in the	Check the LAN parameters
	machine	Check if there is an IP address conflict with
		other PCs.
		[Use the "Network" function in the User Tools.
		If there is an IP address conflict, inform the
		administrator.]
Between machine	1. LAN settings in the	Check the LAN parameters
and e-mail server	machine	Check if there is an IP address conflict with
		other PCs.
		[Use the "Network" function in the User Tools.
		If there is an IP address conflict, inform the
		administrator.]
	2. E-mail account on	Make sure that the machine can log into the e-
	the server	mail server.
		Check that the account and password stored
		in the server are the same as in the machine.
		[Ask the administrator to check.]
	3. E-mail server	Make sure that the client devices which have
		an account in the server can send/receive e-

Communication	Item	Action [Remarks]
Route		
		mail.
		[Ask the administrator to check.
		Send a test e-mail with the machine's own number
		as the destination. The machine receives the
		returned e-mail if the communication is performed
		successfully.]
Between e-mail	1. E-mail account on	Make sure that the PC can log into the e-mail
server and internet	the Server	server.
		Check that the account and password stored
		in the server are the same as in the machine.
		[Ask the administrator to check.]
	2. E-mail server	Make sure that the client devices which have
		an account in the server can send/receive e-
		mail.
		[Ask the administrator to check.
		Send a test e-mail with the machine's own number
		as the destination. The machine receives the
		returned e-mail if the communication is performed
		successfully.]
	3. Destination e-mail	Make sure that the e-mail address is actually
	address	used.
		Check that the e-mail address contains no
		incorrect characters such as spaces.
	4. Router settings	Use the "ping" command to contact the router.
		Check that other device connected to the
		router can send data over the router.
		[Ask the administrator of the server to check.]
	5. Error message by e-	Check whether e-mail can be sent to another
	mail from the network	address on the same network, using the
	of the destination.	application e-mail software.
		Check the error e-mail message.
		[Inform the administrator of the LAN.]

IP-Fax Troubleshooting

IP-Fax Transmission

Cannot send by IP Address/Host Name

Che	eck Point	Action
1	LAN cable connected?	Check the LAN cable connection.
2	Specified IP address/hostname correct?	Check the IP address/hostname.
3	Firewall/NAT is installed?	Cannot breach the firewall. Send by using
		another method (Fax, Internet Fax)
4	Did transmission send manually?	Manual sending not supported.
5	IP address of local machine registered?	Register the IP address.
6	Remote terminal port number setting other than	Send by specifying the port number.
	1720 (When using H.323) or 5060 (when using	
	SIP)?	
7	Specified port number correct?	Confirm the port number of the remote
		fax.
8	DNS server registered when hostname specified?	Contact the network administrator.
9	Remote fax a T.38 terminal?	Check whether the remote fax is a T38
		terminal.
10	Remote fax switched off or busy?	Check that the remote fax is switched on.
11	Network bandwidth too narrow?	Request the network administrator to
		increase the bandwidth.
		Raise the delay level.
		IPFAX SW 01 Bit 0 to 3
		IP-Fax bandwidth is the same as the DCS
		speed. Set IP-Fax SW00 Bit 6 to 1.
12	Remote fax canceled transmission?	Check whether the remote fax canceled
		the transmission.

Cannot Send via VoIP Gateway.

Check Point		Action
1	LAN cable connected?	Check the LAN cable connection.
2	VoIP Gateway T.38 standard?	Contact the network administrator.
3	VoIP Gateway installed correctly?	Contact the network administrator.
4	VoIP Gateway power switched on?	Contact the network administrator.
5	Is the IP address/hostname of the	Check the IP address/hostname.
	specified Gateway correct?	
6	Does the number of the specified fax	Check the remote fax number.

	correct?	
7	Firewall/NAT is installed?	Cannot breach the firewall. Send by using another
		method (Fax, Internet Fax)
8	Did transmission send manually?	Manual sending not supported.
9	What is the IP address of local fax	Register the IP address.
	registered?	
10	DNS registered when hostname	Contact the network administrator.
	specified?	
11	Is the remote fax a G3 fax?	Check that the remote fax is a G3 fax.
12	G3 fax is connected to VoIP gateway?	Check that G3 fax is connected.
13	Remote G3 fax turned on?	Check that G3 fax is switched on.
14	Network bandwidth too narrow?	Request the network administrator to increase the
		bandwidth.
		Raise the network delay level.
		IPFAX SW 01 Bit 0 to 3
		IP-Fax bandwidth is the same as the DCS speed.
		Set IP-Fax SW00 Bit 6 to 1.

Cannot Send by Alias Fax Number.

Che	eck Point	Action
1	LAN cable connected?	Check the LAN cable connection.
2	Number of specified Alias fax correct?	Confirm the Alias of the remote fax.
		Error Code: 13-14
3	Firewall/NAT installed?	Cannot breach the firewall. Send by using
		another method (Fax, Internet Fax)
4	Transmission sent manually?	Manual sending not supported.
5	Gatekeeper/SIP server installed correctly?	Contact the network administrator.
6	Gatekeeper/SIP server power switched on?	Contact the network administrator.
7	IP address/host name of Gatekeeper/SIP	Check the IP address/host name.
	server correct?	
8	DNS server registered when	Contact the network administrator.
	Gatekeeper/SIP host name specified?	
9	Enable H.323 SW is set to on?	Check the settings.
		See User Parameter SW 34 Bit 0/SW 34 Bit 1
10	IP address of local fax registered?	Register the IP address of the local fax.
11	Alias number of local fax registered?	Register the Alias number of the local fax.
12	Remote fax registered in Gatekeeper?	Contact the network administrator.
13	Remote fax a T.38 terminal?	Check whether the remote fax is a T38 terminal.

14	Remote fax switched off or busy?	Contact the network administrator.
15	Network bandwidth too narrow?	Request the system administrator to increase the
		bandwidth.
		Raise the delay level.
		IPFAX SW 01 Bit 0 to 3
		Lower the modem transmission baud rate.
		IPFAX SW 05
16	Remote fax cancelled transmission?	Check whether the remote fax cancelled the
		transmission.

IP-Fax Reception

Cannot Receive via IP Address/Host Name.

Cr	neck Point	Action
1	LAN cable connected?	Check the LAN cable connection.
2	Firewall/NAT is installed?	Cannot breach the firewall. Send by using another
		method (Fax, Internet Fax)
3	IP address of local fax registered?	Register the IP address.
4	Port number specified at remote sender	Request the sender to specify the port number.
	fax (if required)?	
5	Specified port number correct (if	Request the sender to check the port number.
	required)?	
6	DNS server registered when hostname	Contact the network administrator.
	specified on sender side?	↓ Note
		The sender machine displays this error code
		if the sender fax is a Ricoh model.
7	Network bandwidth too narrow?	Request the system administrator to increase the
		bandwidth.
		Lower the start modem reception baud rate on the
		receiving side.
		IPFAX SW06
8	Remote fax canceled transmission?	Check whether the remote fax canceled the
		transmission.

Cannot Receive by VoIP Gateway.

Check Point		Action	
1	LAN cable connected?	Check the LAN cable connection.	
2	Firewall/NAT is installed?	Cannot breach the firewall. Request the remote fax	
		to send by using another method (Fax, Internet Fax)	

3	VoIP Gateway installed correctly?	Contact the network administrator.
4	VoIP Gateway power switched on?	Contact the network administrator.
5	The IP address/hostname of specified	Request the remote fax to check the IP
	VoIP Gateway correct on sender's side?	address/hostname.
6	DNS server registered when hostname	Contact the network administrator.
	specified on sender side?	
7	Network bandwidth too narrow?	Request the network administrator to increase the
		bandwidth.
8	G3 fax connected?	Check that G3 fax is connected.
9	G3 fax power switched on?	Check that G3 fax is switched on.

Cannot Receive by Alias Fax Number.

Che	eck Point	Action
1	LAN cable connected?	Check the LAN cable connection.
2	Firewall/NAT is installed?	Cannot the breach firewall. Request the remote fax
		to send by using another method (Fax, Internet
		Fax)
3	Did gatekeeper install correctly?	Contact the network administrator.
		◆ Note
		The sender machine displays this error
		code when the sender fax is a Ricoh
		model.
4	Power to Gatekeeper switched on?	Contact the network administrator.
		◆ Note
		The sender machine displays this error
		code when the sender fax is a Ricoh
		model.
5	IP address/hostname of Gatekeeper	Request the sender to check the IP
	correct on the sender's side?	address/hostname.
		◆ Note
		The sender machine displays this error
		code when the sender fax is a Ricoh
		model.
6	DNS server registered when Gatekeeper	Contact the network administrator.
	hostname specified on sender's side?	◆ Note
		The sender machine displays this error
		code when the sender fax is a Ricoh
		model.
7	Enable H.323 SW is set to on?	Request the sender to check the settings.

		User Parameter SW 34 Bit 0/SW 34 bit 1
		♦ Note
		Only if the remote sender fax is a Ricoh
		fax.
8	Local fax IP address registered?	Register the IP address.
9	Local fax Alias number registered?	Register the Alias number.
10	Network bandwidth too narrow?	Request the system administrator to increase the
		bandwidth.
		Lower the start modem reception baud rate on the
		receiving side.
		IPFAX SW06
11	Remote fax canceled transmission?	Check whether the remote fax canceled the
		transmission.
12	Local fax registered in Gatekeeper/SIP	Contact the network administrator.
	server?	♥ Note
		The sender machine displays this error
		code when the sender fax is a Ricoh
		model.

4. Service Tables

Beforehand

ACAUTION

Never turn off the main power switch when the power LED is lit or flashing. To avoid damaging
the hard disk or memory, press the operation power switch to switch the power off, wait for the
power LED to go off, and then switch the main power switch off.



• The main power LED lights or flashes while the ADF is open, while the main machine is communicating with a facsimile or the network server, or while the machine is accessing the hard disk or memory for reading or writing data.

Service Tables

SP1-XXX (Bit Switches)

Bit Switches

1	Mode No.		Function		
101	1 System Switch				
	001 –	00 –	Change the bit switches for system settings for the fax option		
	032	1F	See "Bit Switches - 1"		
102	Ifax Switch				
	001 –	00 –	Change the bit switches for internet fax settings for the fax option		
	016	0F	See "Bit Switches - 2"		
103	Printer Swi	tch			
	001 –	00 –	Change the bit switches for printer settings for the fax option		
	016	0F	See "Bit Switches - 2"		
104	4 Communication Switch				
	001 –	00 –	Change the bit switches for communication settings for the fax option		
	032	1F	See "Bit Switches - 3"		
105	G3-1 Switc	:h			
	001 –	00 –	Change the bit switches for the protocol settings of the standard G3		
	016	0F	board		
			See "Bit Switches - 4"		
111	IP fax Switch				
	001 –	00 –	Change the bit switches for optional IP fax parameters		
	016	0F	See "Bit Switches - 5"		

SP2-XXX (RAM)

2	Mode No.		Function
101	RAM Read/Write		
	001		Change RAM data for the fax board directly. See "Service RAM
			Addresses"
102	Memory Dump		
	001	G3-1 Memory	Print out RAM data for the fax board.
		Dump	See "Service RAM Addresses"
103	G3-1 NCU Parameters		
	001 –	CC, 01 – 22	NCU parameter settings for the standard G3 board. See "NCU
	023		Parameters"

SP3-XXX (Machine Set)

3	Mode N	lo.	Function		
101	Service Station				
	001	Fax Number	Enter the fax number of the service station.		
102	02 Serial Number				
	000		Enter the fax unit's serial number.		
103	PSTN-1	Port Settings			
	001	Select Line	Select the line type setting for the G3-1 line. If the machine is		
			installed on a PABX line, select "PABX", "PABX(GND)" or		
			"PABX(FLASH)".		
	002	PSTN Access	Enter the PSTN access number for the		
		Number	G3-1 line.		
	003	Memory Lock	Not used		
		Disabled			
107	IPFAX Port Settings				
	001	H323 Port	Sets the H323 port number.		
	002	SIP Port	Sets the SIP port number.		
	003	RAS Port	Sets the RAS port number.		
	004	Gatekeeper port	Sets the Gatekeeper port number.		
	005	T.38 Port	Sets the T.38 port number.		
Ī	006	SIP Server Port	Sets the SIP port number.		
	007	IPFAX Protocol	Select "H323" or "SIP".		
		Priority			
201	01 FAX SW				
Ī	001 –	00 – 1F			
	032				
301	Fax:Fla	irAPI Setting			
	101	-			

SP4-XXX (ROM Version)

4	Mode N	No.	Function
101	001	FCU ROM Version	Displays the FCU ROM version.
102	001	Error Codes	Displays the latest 64 fax error codes.
103	001	G3-1 ROM Version	Displays the G3-1 modem version.

SP5-XXX (RAM Clear)

5	Function
---	----------

	T			
	No.			
101	Initialize	nitialize SRAM (except Secure)		
	000	Initializes the bit switches and user parameters, user data in the SRAM, files in the		
	SAF memory, and clock.			
102	Erase All	Files		
	000	Erases all files stored in the SAF memory.		
103	Reset Bit	t Switches (except Secure)		
	000	Resets the bit switches and user parameters.		
104	Factory s	setting		
	000	Resets the bit switches and user parameters, user data in the SRAM and files in the		
		SAF memory.		
105	Reset All	All Bit Switches		
	000	Initializes all the current bit switch settings.		
106	Reset Se	eset Secure Bit Switches		
	000	Initializes only the security bit switches. If you select automatic output/display for the		
		user parameter switches, the security settings are initialized.		

SP6-XXX (Report)

6	Mod	e No.	Function		
101 System Parameter List		em Parameter List			
	000	-	Touch the "ON" button to print the system parameter list.		
102	Serv	ice Monitor Report			
	000	-	Touch the "ON" button to print the service monitor report.		
103	G3 F	Protocol Dump List			
	002	G3-1 (All	Prints the protocol dump list of all communications for the G3-1		
		Communications)	line.		
	003	G3-1	Prints the protocol dump list of the last communication for the G3-		
		(1 Communication)	1 line.		
105 All Files Print out		iles Print out			
	000	-	Prints out all the user files in the SAF memory, including		
			confidential messages.		
			UNote		
			Do not use this function, unless the customer is having		
			trouble printing confidential messages or recovering files		
			stored using the memory lock feature.		
106	106 Journal Print out				
	001	All Journals	The machine prints all the communication records on the report.		
	002	Specified Date	The machine prints all communication records after the specified		
	•				

4. Service Tables

			date.	
107	Log I	Log List Print out		
	001	All log files	These log print out functions are for designer use only.	
	002	Printer		
	003	SC/TRAP Stored		
	004	Decompression		
	005	Scanner		
	006	JOB/SAF		
007 Reconstruction	Reconstruction			
	800	JBIG		
	009	Fax Driver		
	010	G3CCU		
	011	Fax Job		
	012	CCU		
	013	Scanner Condition		
108	IP Pr	otocol Dump List		
	001	All Communications	Prints the protocol dump list of all communications for the IP fax	
			line.	
	002	1 Communication	Prints the protocol dump list of the last communication for the IP	
			fax line.	

SP7-XXX (Tests)

These are the test modes for PTT approval.

7	Function
101	G3-1 Modem Tests
102	G3-1 DTMF Tests
103	Ringer Test
104	G3-1 V34 (S2400baud)
105	G3-1 V34 (S2800baud)
106	G3-1 V34 (S3000baud)
107	G3-1 V34 (S3200baud)
108	G3-1 V34 (S3429baud)
109	Recorded Message Test

Bit Switches - 1



• Do not adjust a bit switch or use a setting that is described as "Not used", as this may cause the machine to malfunction or to operate in a manner that is not accepted by local regulations. Such bits are for use only in other areas, such as Japan.

Default settings for bit switches are not listed in this manual. Refer to the System Parameter List printed by the machine.

System Switches

Sys	System Switch 00 (SP No. 1-101-001)		
No	Function	Comments	
0	Dedicated transmission	Set this bit to 1 before changing any dedicated transmission	
	parameter programming	parameters.	
	0: Disabled	This setting is automatically reset to "0" after turning off and on.	
	1: Enabled		
1	Not used	Do not change this setting.	
2	Technical data printout on	1: Instead of the personal name, the following data are listed on	
	the Journal	the Journal for each G3 communication.	
	0: Disabled		
	1: Enabled		
	Example:		
	0000 32V34 288/264 (1) (2)(3) (4) (5)		
(1): EQM value (Line quality data). A larger number means more errors.		data). A larger number means more errors.	
	(2): Symbol rate (V.34 only)		
	(3): Final modem type used		
(4): Starting data rate (for example, 288 means 28.8 kbps)		ample, 288 means 28.8 kbps)	
	(5): Final data rate		
	(6): Rx revel (see below for h	now to read the rx level)	
	(7): Total number of error line	es that occurred during non-ECM reception.	
	(8): Total number of burst err	or lines that occurred during non-ECM reception.	
	 EQM and rx level are fixed at "FFFF" in tx mode. The seventh and eighth numbers are fixed at "00" for transmission records and ECM 		
	reception records.		
	Rx level calculation		
	Example:		

	0000 32V34 288/264 (1) (2)(3) (4) (5)	L0100 03 04 (6) (7) (8)	
	The four-digit hexadecimal v	ralue (N) after "L" indicates the rx level.	
	The high byte is given first, followed by the low byte. Divide the decimal value of N by -16 to		
	get the rx level.		
	In the above example, the de	ecimal value of N (= 0100 [H]) is 256.	
	So, the actual rx level is 256	/-16 = -16 dB	
3	Not used	Do not change this setting.	
4	Line error mark print	When "1" is selected, a line error mark is printed on the printout if	
	0: OFF, 1: ON (print)	a line error occurs during reception. This shows error locations	
		when ECM is turned off.	
5	G3 communication	This is a fault-finding aid. The LCD shows the key parameters	
	parameter display	(see "G3 Communication Parameters" below this table). This is	
	0: Disabled	normally disabled because it cancels the CSI display for the user.	
	1: Enabled	Be sure to reset this bit to "0" after testing.	
6	Protocol dump list output	This is only used for communication troubleshooting. It shows the	
	after each communication	content of the transmitted facsimile protocol signals. Always reset	
	0: Off	this bit to 0 after finishing testing.	
	1: On	If system switch 09 bit 6 is at "1", the list is only printed if there	
		was an error during the communication.	
7	Not used	Do not change the setting.	

G3 Communication Parameters

Modem rate	336: 33600 bps 168: 16800 bps
	312: 31200 bps 144: 14400 bps
	288: 28800 bps 120: 12000 bps
	264: 26400 bps 96: 9600 bps
	240: 24000 bps 72: 7200 bps
	216: 21600 bps 48: 4800 bps
	192: 19200 bps 24: 2400 bps
Resolution	S: Standard (8 x 3.85 dots/mm)
	D: Detail (8 x 7.7 dots/mm)
	F: Fine (8 x 15.4 dots/mm)
	SF: Superfine (16 x 15.4 dots/mm)
	21: Standard (200 x 100 dpi)
	22: Detail (200 x 200 dpi)
	44: Superfine (400 x 400 dpi)
Compression mode	MMR: MMR compression
	MR: MR compression
	MH: MH compression

	JBO: JBIG compression (Optional mode)	
	JBB: JBIG compression (Basic mode)	
Communication	ECM: With ECM	
mode	NML: With no ECM	
Width and reduction	A4: A4 (8.3"), no reduction	
	B4: B4 (10.1"), no reduction	
	A3: A3 (11.7"), no reduction	
I/O rate 0: 0 ms/line		
	5: 5 ms/line	
	10: 10 ms/line	
	20: 20 ms/line	
	25: 2.5 ms/line	
	40: 40 ms/line	
	♦ Note	
	"40" is displayed while receiving a fax message using AI short	
	protocol.	

System Switch 01 - Not used (Do not change the factory settings.)

Sys	System Switch 02 (SP No. 1-101-003)		
No	Function	Comments	
0-	Not used	Do not change these settings.	
1			
2	Forced reset after	With this setting on, the machine resets itself automatically if a	
	transmission stalls	transmission stalls and fails to complete the job.	
	0: Off		
	1: On		
3	Not used	Do not change these settings.	
4	File retention time	1: A file that had a communication error will not be erased unless	
	0: Depends on User	the communication is successful.	
	Parameter 24 [18(H)]		
	1: No limit		
5-	Not used	Do not change this setting	
7			

System Switch 03 - Not used (Do not change the factory settings.)

System Switch 04 (SP No. 1-101-005)

4. Service Tables

No	Function	Comments
0-	Not used	Do not change these settings.
2		
3	Printing dedicated tx	1: Each Quick/Speed dial number on the list is printed with the
	parameters on Quick/Speed	dedicated tx parameters (10 bytes each).
	Dial Lists	The first 10 bytes of data are the programmed dedicated tx
	0: Disabled	parameters; 34 bytes of data are printed (the other 24 bytes
	1: Enabled	have no use for service technicians).
4-	Not used	Do not change these settings.
7		

System Switch 05 - Not used (Do not change the factory settings.)		
System Switch 06 - Not used (Do not change the factory settings.)		
System Switch 07 - Not used (Do not change the factory settings.)		
System Switch 08 - Not used (Do not change the factory settings.)		

Sys	System Switch 09 (SP No. 1-101-010)		
No	Function	Comments	
0	Addition of image data from	If this feature is enabled, the top half of the first page of	
	confidential transmissions on the	confidential messages will be printed on transmission	
	transmission result report	result reports.	
	0: Disabled 1: Enabled		
1	Print timing of communication	0: The Journal is printed only when image data is sent.	
	reports on the Journal when no	1: The Journal is printed when any data is sent.	
	image data was exchanged.		
	0: After DCS/NSS communication		
	(default),		
	1: After polling		
2	Automatic error report printout	0: Error reports will not be printed.	
	0: Disabled 1: Enabled	1: Error reports will be printed automatically after failed	
		communications.	
3	Printing of the error code on the	1: Error codes are printed on the error reports.	
	error report	This can be used for detecting an error which occurs	
	0: No 1: Yes	rarely.	
4	Not used	Do not change this setting.	
5	Power failure report	1: A power failure report will be automatically printed after	
	0: Disabled	the power is switched on if a fax message disappeared	
	1: Enabled (default)	from the memory when the power was turned off last.	

		NOTE: If "0" is selected, no reports are printed and no
		one may recognize that fax data is gone due to a power
		failure.
6	Conditions for printing the protocol	This switch becomes effective only when system switch
	dump list	00 bit 6 is set to 1.
	0: Print for all communications	1: Set this bit to 1 when you wish to print a protocol dump
	1: Print only when there is a	list only for communications with errors.
	communication error	NOTE: The memory size is limited. Use this bit switch
		only when some log reports are necessary.
7	Not used	Do not change this setting.

Sys	System Switch 0A (SP No. 1-101-011)		
No	Function	Comments	
0-	Not used	Do not change these settings.	
3			
4	Dialing on the ten-key	0: Prevents dialing from the ten-key pad while the external	
	pad when the external	telephone is off-hook. Use this setting when the external telephone	
	telephone is off-hook	is not by the machine, or if a wireless telephone is connected as an	
	0: Disabled 1: Enabled	external telephone.	
		1: The user can dial on the machine's ten-key pad when the	
		handset is off-hook.	
5	On hook dial	0: On hook dial is disabled.	
	0: Disabled 1: Enabled		
6-	Not used	Do not change these settings	
7			

System Switch 0B - Not used (Do not change the factory settings.)
System Switch 0C - Not used (Do not change the factory settings.)
System Switch 0D - Not used (Do not change the factory settings.)

System Switch 0E (SP No. 1-101-015)		
No	No Function Comments	
0-	- Not used Do not change the settings.	
1		
2	Enable/disable for direct	Direct sending cannot operate when the capture function is on
	sending selection	during sending. Setting this switch to "1" enables direct sending
	0: Direct sending off	without capture.
	1: Direct sending on	Setting this switch to "0" masks the direct sending function on the

4. Service Tables

		operation panel so direct sending with ScanRouter cannot be
		selected.
3	Action when the external	0: Manual tx is possible while the external handset is off-hook.
	handset goes off-hook	However, manual tx during handset off-hook may not be sent to a
	0: Manual tx and rx	correct direction. Manual tx is not possible.
	operation	1: The display stays in standby mode even when the external
	1: Memory tx and rx	handset is used so that other people can use the machine for
	operation (the display	memory tx operation. Note that manual tx and rx are not possible
	remains the same)	with this setting.
4-	Not used	Do not change these settings.
7		

Sys	System Switch 0F (SP No. 1-101-016)			
No	Function		Comments	
0	Country/area code for		This country/area code determines the factory settings of bit	
to	functional set	tings (Hex)	switches and RAM addresses. However, it has no effect on the	
7	00: France	12: Asia	NCU parameter settings and communication parameter RAM	
	01:	13: Japan	addresses.	
	Germany		Cross-reference	
	02: UK	14: Hong	NCU country code:	
		Kong	SP No. 2-103-001 for G3-1	
	03: Italy	15: South	SP No. 2-104-001 for G3-2	
		Africa	SP No. 2-105-001 for G3-3	
	04: Austria	16: Australia		
	05: Belgium 17: New			
		Zealand		
	06:	18: Singapore		
	Denmark			
	07: Finland	19: Malaysia		
	08: Ireland	1A: China		
	09: Norway	1B: Taiwan		
	0A:	1C: Korea		
	Sweden			
	0B: Switz.	1D: Brazil		
	0C:	20: Turkey		
	Portugal			
	0D: Holland	21: Greece		
	0E: Spain 22: Hungary			

	0F: Israel	23: Czech	
	10:	24: Poland	
	11: USA		

Syst	System Switch 10 (SP No. 1-101-017)			
No	No Function Comments			
0-7	Threshold memory level for parallel memory transmission	Threshold = N x 128 KB + 256 KB		
		N can be between 00 - FF(H)		
		Default setting: 02(H) = 512 KB		

Sys	tem Switch 11 (SP No. 1-101-018)	
No	Function	Comments
0	TTI printing position	Change this bit to 1 if the TTI overprints information that the
	0: Superimposed on the page	customer considers to be important (G3 transmissions).
	data	NOTE: If "1" is selected, it is possible that sent data is
	1: Printed before the data	printed on two sheets of paper.
	leading edge	
1-	Not used	Do not change these settings.
2		
3	TTI used for broadcasting	1: The TTI (TTI_1 or TTI_2) which is selected for all
	0: The TTIs selected for each	destinations during broadcasting.
	Quick/Speed dial are used	
	1: The same TTI is used for all	
	destinations	
4-	Not used	Do not change these settings.
7		

Sys	System Switch 12 (SP No. 1-101-019)		
No	Function	Comments	
0-	TTI printing	TTI: 08 to 92 (BCD) mm	
7	position in the	Input even numbers only.	
	main scan	This setting determines the print start position for the TTI from the left edge	
	direction	of the paper. If the TTI is moved too far to the right, it may overwrite the file	
		number which is on the top right of the page. On an A4 page, if the TTI is	
		moved over by more than 50 mm, it may overwrite the page number.	

System Switch 13 - Not used (do not change these settings)
System Switch 14 - Not used (do not change these settings)

Sys	tem Switc	h 15 (SP	No. 1-101-022)	
No	Function			Comments
0	Not used	Not used		Do not change the settings.
1	Going int	to the Ene	rgy Saver mode	1: The machine will restart from the Energy Saver mode
	automati	cally		quickly because the +5V power supply is active even in
	0: Enable	ed		the Energy Saver mode. The LED of the operation switch
	1: Disabl	ed		is flashing instead of entering Energy Saver mode.
				Use this setting if an external telephone has to be used
				when the machine is in the Energy Saver mode.
2-	Not used			Do not change these settings.
3				
4-	Interval for preventing the machine		ing the machine	If there is a file waiting for transmission, the machine
5	from ente	ering Energ	gy Saver mode if	does not go to Energy Saver mode during the selected
	there is a	pending t	ransmission file.	period.
	Bit 5	Bit 4	Setting	After transmitting the file, if there is no file waiting for
	0	0	1 min	transmission, the machine goes to the Energy Saver
	0 1 30 min		30 min	mode.
	1 0 1 hour		1 hour	
	1 1 24 hours		24 hours	
6-	Not used			Do not change the settings.
7				

Sys	System Switch 16 (SP No. 1-101-023)		
No	o Function Comments		
0	Parallel	1: The machine sends messages simultaneously using all available ports	
	Broadcasting	during broadcasting.	
	0: Disabled	NOTE: If a customer wants to keep a line available for fax reception or	
	1: Enabled	other reasons, select "0" (Disable).	
1-	Not used	Do not change these settings.	
7			

System Switch 17 - Not used (do not change these settings)
System Switch 18 - Not used (do not change these settings)

System Switch 19 (SP No. 1-101-026)		101-026)
No Function Comments		Comments
0-	Not used	Do not change the settings.

5		
6	Extended scanner	0: After installing the memory expansion option, the scanner page
	page memory after	memory is extended to 4 MB from 2 MB.
	memory option is	1: If this bit is set to 1 after installing the memory expansion option,
	installed	the scanner page memory is extended to 12 MB. But the SAF
	0: Disabled	memory decreases to 18 MB.
	1: Enabled	
7*	Special Original mode	1: If the customer frequently wishes to transmit a form or letterhead
	0: Disabled	which has a colored or printed background, change this bit to "1".
	1: Enabled	"Original 1" and "Original 2" can be selected in addition to the "Text",
		"Text/Photo" and "Photo" modes.

^{*} This setting can be used for the client machine which has no FCU.

System Switch 1A (SP No. 1-101-027)		101-027)
No	Function	Comments
0	LS RX memory capacity	Sets the value to x4KB. When the amount of available memory drops
to	threshold setting	below this setting, RX documents are printed to conserve memory.
7	00-FF (0-1020 Kbyte:	Initial setting 0x80 (512 KB)
	Hex)	NOTE: If a customer wants available memory size to be larger,
		decrease this threshold

System Switch 1B - Not used (do not change these settings)	
System Switch 1C - Not used (do not change these settings)	

System Switch 1D (SP No. 1-101-030)		1-101-030)
No Function Comments		Comments
0	RTI/CSI/CPS code	0: RTI, CSI, CPS codes are displayed on the top line of the LCD panel
	display	during communication.
	0: Enable	1: Codes are switched off (no display)
	1: Disable	
1-	Not used	Do not change these settings.
7		

Sys	System Switch 1E (SP No. 1-101-031)	
No	Function	Comments
0	Communication after the	0: When this switch is on and the journal history becomes full
	Journal data storage area has	the next report prints. If the journal history is not deleted, the
	become full	next transmission cannot be received. This prevents
	0: Impossible	overwriting communication records before the machine can

	1: Possible	print them
	1: Possible	print them.
		1: If the buffer memory of the communication records for the
		Journal is full, fax communications are still possible. But the
		machine will overwrite the oldest communication records.
		Note
		This setting is effective only when Automatic Journal
		printout is enabled but the machine cannot print the
		report (e.g., no paper).
1*	Action when the SAF memory	0: If the SAF memory becomes full during scanning for a
	has become full during	memory transmission, the successfully scanned pages are
	scanning	transmitted.
	0: The current page is erased.	1: If the SAF memory becomes full during scanning for a
	1: The entire file is erased.	memory transmission, the file is erased and no pages are
		transmitted.
		U Note
		This setting is effective only when Automatic Journal
		printout is enabled but the machine cannot print the
		report (e.g., no paper).
2	RTI/CSI display priority	This bit determines which identifier, RTI or CSI, is displayed on
	0: RTI 1: CSI	the LCD while the machine is communicating in G3 non-
		standard mode.
3	File No. printing	1: File numbers are not printed on any reports.
	0: Enabled	NOTE: The file numbers may not be printed in the sequential
	1: Disabled	order. If a customer does not like this numbering, select "0".
4	Action when authorized	0: If the user has stored no acceptable sender RTIs or CSIs,
	reception is enabled but	the user can select "ON" in the authorized reception setting
	authorized RTIs/CSIs are not	but the setting becomes invalid ("OFF"). The machine will not
	yet programmed	be able to receive any fax messages.
	0: All fax reception is disabled	If the customer wishes to receive messages from any sender
	1: Faxes can be received if the	that includes an RTI or CSI and to block messages from
	DTI 001	senders that do not include an RTI or CSI, change this bit to
	sender has an RTI or CSI	Schools that do not include all 1711 of COI, change this bit to
	sender has an RTI or CSI	"0", then enable Authorized Reception.
	sender has an RTI or CSI	
5-	Not used	"0", then enable Authorized Reception.

^{*} This setting can be used for the client machine which has no FCU.

System Switch 1F (SP No. 1-101-032)		
No Function Comments		Comments
0	Not used	Do not change the settings.

	T	
1	Report printout after an original jam	0: When an original jams, or the SAF memory
	during SAF storage or if the SAF	overflows during scanning, a report will be printed.
	memory fills up	Change this bit to "1" if the customer does not want to
	0: Enabled	have a report in these cases.
	1: Disabled	Memory tx – Memory storage report
		Parallel memory tx – Transmission result report
2	Not used	Do not change the settings.
3	Received fax print start timing	0: The machine prints each page immediately after the
	(G3 reception)	machine receives it.
	0: After receiving each page	1: The machine prints the complete message after the
	1: After receiving all pages	machine receives all the pages in the memory.
4-	Not used	Do not change the factory settings.
6		
7	Action when a fax SC has occurred	0: When the fax unit detects a fax SC code other than
	0: Automatic reset	SC1201 and SC1207, the fax unit automatically resets
	1: Fax unit stops	itself.
		1: When the fax unit detects any fax SC code, the fax
		unit stops.
		Cross-Reference
		Fax SC codes - See "Troubleshooting"

Bit Switches - 2



• Do not adjust a bit switch or use a setting that is described as "Not used", as this may cause the machine to malfunction or to operate in a manner that is not accepted by local regulations. Such bits are for use only in other areas, such as Japan.

Default settings for bit switches are not listed in this manual. Refer to the System Parameter List printed by the machine.

I-Fax Switches

I-fax Switch 00 (SP No. 1-102-001)		-102-001)
No	Function	Comments
Origin	nal Width of TX	This setting sets the maximum size of the original that the destination
Attac	hment File	can receive. (Bits 3 to 6 are reserved for future use or not used.)
0	A4	-
1	B4	
2	A3	
3-6	Reserved	
7	Not used	

0: Off (not selected), 1: On (selected)

If more than one of these three bits is set to "1", the larger size has priority. For example, if both Bit 2 and Bit 1 are set to "1" then the maximum size is "A3" (Bit 2).

When mail is sent, there is no negotiation with the receiving machine at the destination, so the sending machine cannot make a selection for the receiving capabilities (original width setting) of the receiving machine. The original width selected with this switch is used as the RX machine's original width setting, and the original is reduced to this size before sending. The default is A4.

If the width selected with this switch is higher than the receiving machine can accept, the machine detects this and this causes an error.

I-fax Switch 01 (SP No. 1-102-002)		102-002)
No	Function	Comments
Origii	nal Line Resolution	These settings set the maximum resolution of the original that the
of TX	Attachment File	destination can receive.
0	200x100 Standard	0: Not selected
1	200x200 Detail	1: Selected
2	200x400 Fine	If more than one of these three bits is set to "1", the higher resolution
3	300 x 300 Reserve	has priority. For example, if both Bit 0 and Bit 2 are set to "1" Then The
4	400 x 400 Super	Resolution is set for "Bit 2 200 x 400.

	Fine
5	600 x 600 Reserve
6	Reserve
7	mm/inch

This setting selects mm/inch conversion for mail transmission.

0: Off (No conversion), 1: On (Conversion)

When on (set to "1"), the machine converts millimeters to inches for sending mail. There is no switch for converting inches to millimeters.

Unlike G3 fax transmissions which can negotiate between sender and receiver to determine the setting, mail cannot negotiate between terminals; the mm/inch selection is determined by the sender fax.

When this switch is Off (0):

- Images scanned in inches are sent in inches.
- Images scanned in mm are sent in mm.
- Images received in inches are transmitted in inches.
- Images received in mm are transmitted in mm.

When this switch is On (1):

- Images scanned in inches are sent in inches.
- Images scanned in mm are converted to inches.
- Images received in inches are transmitted in inches.
- Images received in mm are converted to inches.

I-fax Switch 02 (SP No. 1-102-003)		
No	Function	Comments
0	RX Text Mail Header Processing	
	This setting determines whether the header information is printed with text e-mails when they	
	are received.	
	0: Prints only text mail.	
	1: Prints mail header information attached to text mail.	
	When a text mail is received with this switch On (1), the "From" address and "Subject" address	
	are printed as header information.	
	When a mail with only binary data is received (a TIFF-F file, for example), this setting is ignored	
	and no header is printed.	
Output from Attached Document at E-mail TX Error		X Error
	This setting determines whether only the first page or all pages of an e-mail attachment are	
	printed at the sending station when a transn	nission error occurs. This allows the customer to
	see which documents have not reached the	ir intended destinations if sent to the wrong e-mail
	addresses, for example.	
	0: Prints 1st page only.	

4.Service Tables

	1: Prints all pages.	
2-3	Text String for Return Receipt	
	This setting determines the text string output for the Return Receipt that confirms the	
	transmission was received normally at the destination.	
	00: "Dispatched"	
	Sends from PC mail a request for a Return Receipt. Receives the Return Receipt with	
	"dispatched" in the 2nd part:	
	Disposition: Automatic-action/MDN-send automatically; dispatched	
	The "dispatched" string is included in the Subject string.	
	01: "Displayed"	
	Sends from PC mail a request for a Return Receipt. Receives the Return Receipt with	
	displayed" in the 2nd part:	
	Disposition: Automatic-action/MDN-send automatically; displayed	
	The "displayed" string is included in the Subject string.	
	10: Reserved	
	11: Reserved	
	A mail requesting a Return Receipt sent from an IFAX with this switch set to "00" (for	
	"dispatched") received by Microsoft Outlook 2000 may cause an error. If any setting other than	
	"displayed" (01) causes a problem, change the setting to "01" to enable normal sending of the	
	Return Receipt.	
4	Media accept feature	
	This setting adds or does not add the media accept feature to the answer mail to confirm a	
	reception.	
	0: Does not add the media accept feature to the answer mail	
	1: Adds the media accept feature to the answer mail.	
	Use this bit switch if a problem occurs when the machine receives an answer mail, which	
	contains the media accept feature field.	
5-6	Not Used (do not change these settings)	
7	nage Resolution of RX Text Mail	
	This setting determines the image resolution of the received mail.	
	0: 200 x 200	
	1: 400 x 400	
	The "1" setting requires installation of the Memory Unit in order to have enough SAF (Store and	
	Forward) memory to receive images at 400 x 400 resolution.	

I-fax Switch 03 - Not used (do not change these settings)

I-fax Switch 04 (SP No. 1-102-005)

No	Function Comments		
0	Subject for Delivery TX/Memory Transfer		
	This setting determines whether the RTI/CSI registered on this machine or the RTI/CSI of the		
	originator is used in the subject lines of transferred documents.		
	0: Puts the RTI/CSI of the originator in the Subject line. If this is used, either the RTI or CSI is		
	used. Only one of these can be received for use in the subject line.		
	1: Puts the RTI/CSI registered on this machine in the Subject line.		
	When this switch is used to transfer and deliver mail to a PC, the information in the Subject line		
	that indicates where the transmission originated can be used to determine automatically the		
	destination folder for each e-mail.		
1	Subject corresponding to mail post database		
	0: Standard subject		
	1: Mail post database subject		
	The standard subject is replaced by the mail post database subject in the following three cases:		
	1) When the service technician sets the service (software) switch.		
	2) When memory sending or delivery specified by F code is applied by the SMTP server		
	3) With relay broadcasting (1st stage without the Schmidt 4 function).		
	♥ Note		
	This switch does not apply for condition 3) when the RX system is set up for memory		
	sending, delivery by F-code, sending with SMTP RX and when operators are using		
	FOL (to prevent problems when receiving transmissions).		
2-7	Not Used (do not change these settings)		

I-fax Switch 05 (SP No. 1-102-006)				
No	Function	Comments		
0 Mail Addresses of SMTP Broadcast Recipient		ents		
	Determines whether the e-mail addresses of the destinations that receive transmissions			
	broadcasted using SMTP protocol are recor	ded in the Journal.		
	For example:			
	"1st destination + Total number of destinations: 9" in the Journal indicates a broadcast to 9			
	destinations.			
	0: Not recorded			
	1: Recorded			
1	IFAXTX Retries			
	Determines whether the machine retries se	nding IFAX when connection and transmission fails		
	due to errors.			
	0: Disabled			
	1: Enabled			
2	When sending Tiff files to the mail/folder de	stinations, selects the resizing function in the main		

	scan direction.	
	Controls ON/OFF of the function, that fit the Tiff files sent from the fax application, within the	
	standard size.	
	0: Disabled (not resizing)	
	1: Enabled (resizing)	
3-7	Not Used (do not change these settings)	

I-fax Switch 06 - Not used (do not change the settings)
I-fax Switch 07 - Not used (do not change the settings)

I-fax Switch 08 (SP No. 1-102-009)			
No	Function	Comments	
0-7	Memory Threshold for POP Mail Reception		
	This setting determines the amount of SAF (Store and Forward) memory. (SAF stores fax		
	messages to send later for transmission to more than one location, and also holds incoming		
	messages if they cannot be printed.) When the amount of SAF memory available falls below		
	this setting, mail can no longer be received; received mail is then stored on the mail server.		
	00-FF (0 to 1024 KB: HEX)		
	The hexadecimal number you enter is multiplied by 4 KB to determine the amount of memory.		

I-fax Switch 09 (SP No. 1-102-010)			
No	Function	Comments	
0-	Not used	Do not change the settings	
3			
4-	Restrict TX	This setting determines the number of retries when connection and	
7	Retries	transmission fails due to errors.	
		01-F (1-15 Hex)	

I-fax Switch 0A - Not used (do not change the settings)		
I-fax Switch 0B - Not used (do not change the settings)		
I-fax Switch 0C - Not used (do not change the settings)		

I-fax Switch 0D (SP No. 1-102-014)			
No Function Comments		Comments	
0-	Not used	Do not change the	
1		settings	
2-	Select the signature when sending mail notification of the send	In response to	
3	results	IEEE2600.1.	

	Bit 2	Bit 3	Setting	
	0	0	No sign	
	0	1	No setting	
	1	0	Individual setting	
	1	1	Always sign	
4-	Select the signa	ature whe	n sending mail.	In response to
5				IEEE2600.1.
	Bit 5	Bit	Setting	
		4		
	0	0	No sign	
	0	1	No setting	
	1	0	Individual setting	
	1	1	Always sign	
6-	Not used			Do not change the
7				settings.

I-fax Switch 0E - Not used (do not change the settings)

I-fax Switch 0F (SP No. 1-102-016)			
No	Function	Comments	
0	Delivery Method for SMTP RX Files		
	This setting determines whether files received with SMTP protocol are delivered or output		
	immediately.		
	0: Off. Files received via SMTP are output immediately without delivery.		
	1: On. Files received via SMTP are delivered immediately to their destinations.		
1 Set to select the signature when receiving SMTP mail.		SMTP mail.	
	0: No sign		
	1: Always sign		
2	Set to encrypt the data when receiving SMTP mail.		
	0: No encryption		
	1: Encryption		
3-7	Not used		

Printer Switches

Printer Switch 00 (SP No. 1-103-001)		
No	No Function Comments	
0	Select page separation	0: If a 2 page RX transmission is split, [*] is printed in the bottom
	marks	right corner of the 1st page and only a [2] is printed in the upper

	0: Off	right corner of the 2nd page.	
1: On 1: If a 2 page RX transmission is		1: If a 2 page RX transmission is split into two pages, for example,	
		[*] [2] is printed in the bottom right corner of the 1st page and only	
		a [2] is printed in the upper right corner of the 2nd page.	
		Note	
		This helps the user to identify pages that have been split	
		because the size of the paper is smaller than the size of	
		the document received. (When A5 is used to print an A4	
		size document, for example.)	
1	Repetition of data when	1: Default. 10 mm of the trailing edge of the previous page are	
	the received page is	repeated at the top of the next page.	
	longer than the printer	0: The next page continues from where the previous page stopped	
	paper	without any repeated text.	
	0: Off		
	1: On		
2	Prints the date and time	This switch is only effective when user parameter 02 - bit 2	
	on received fax messages	(printing the received date and time on received fax messages) is	
	0: Disabled	enabled.	
	1: Enabled	1: The machine prints the received and printed date and time at	
		the bottom of each received page.	
3-	Not used	Do not change the settings.	
7			

Printer Switch 01 (SP No. 1-103-002) - Not used (do not change the settings)

Prin	Printer Switch 02 (SP No. 1-103-003)				
No	Function	Comments			
0*	1st paper feed	0: The paper feed station can be used to print fax messages and			
	station usage for fax	reports.			
	printing	1: The specified paper feed station will not be used for printing fax			
	0: Enabled	messages and reports.			
	1: Disabled	Note			
1*	2nd paper feed	Do not disable usage for a paper feed station which has been			
	station usage for fax	specified by User Parameter Switch 0F (15), or which is used			
	printing	for the Specified Cassette Selection feature.			
	0: Enabled				
	1: Disabled				
2*	3rd paper feed				
	station usage for fax				

	printing	
	0: Enabled	
	1: Disabled	
3*	4th paper feed	
	station usage for fax	
	printing	
	0: Enabled	
	1: Disabled	
4*	LCT usage for fax	
	printing	
	0: Enabled	
	1: Disabled	
5-	Not used	Do not change the settings.
7		

^{*} This setting can be used for the client-side machine which has no FCU.

Prin	Printer Switch 03 (SP No. 1-103-004)				
No	Function	Comments			
0*	Length reduction of received data	0: Incoming pages are printed without length reduction.			
	0: Disabled	(Page separation threshold: Printer Switch 03, bits 4 to			
	1: Enabled	7)			
		1: Incoming page length is reduced when printing.			
		(Maximum reducible length: Printer Switches 04, bits 0			
		to 4)			
1-	Not used	Do not change the settings			
3					
4	Page separation setting when sub	Page separation threshold (with reduction disabled with			
to	scan compression is forbidden	switch 03-0 above).			
7	00-0F (0-15 mm: Hex)	For example, if this setting is set to "10", and A4 is the			
	Default: 6 mm	selected paper size:			
		If the received document is 10 mm or less longer than			
		A4, then the 10 mm are cut and only 1 page prints.			
		If the received document is 10 mm longer than A4, then			
		the document is split into 2 pages.			

^{*} This setting can be used for the client-side machine which has no FCU.

Printer Switch 04 (SP No. 1-103-005)				
No	Function Comments			
0	Maximum reducible length when length reduction is enabled with switch 03-0 above.			
to	[Maximum reducible length] = [Paper length] + (N x 5mm)			

4	"N" is the decin	"N" is the decimal value of the binary setting of bits 0 to 4.				
	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Setting
	0	0	0	0	0	0 mm
	0	0	0	0	1	5 mm
	0	0	1	0	0	20 mm
	1	1	1	1	1	155 mm
	For A5 sideways and B5 sideways paper [Maximum reducible length] = [Paper length] + 0.75 x (N x 5mm)					
5	Length of the duplicated image on the next page, when page separation has taken place.				n has taken place.	
6	Bit 6		Bit 5		Setting	
	0		1		4 mm 10 mm	
	0					
	1				15 mm	
					Not used	
7	Not used.			not change the	setting.	

Printer Switch 05 - Not used (do not change the settings)

Prin	Printer Switch 06 (SP No. 1-103-007)					
No	Function	Comments				
0*	Printing while a paper cassette is pulled out, when the Just Size	Cross reference				
	Printing feature is enabled.	Just size printing on/off –				
	0: Printing will not start	User switch 05, bit 5				
	1: Printing will start if another cassette has a suitable size of					
	paper, based on the paper size selection priority tables.					
1-	Not used.	Do not change the settings.				
7						

^{*} This setting can be used for the client-side machine which has no FCU.

Prin	Printer Switch 07 (SP No. 1-103-008)			
No	Function	Comments		
0	Not used.	Do not change the settings.		
1	Selects the 95% reduced	0 : OFF Not reduced printing		
	printing function for letter	1 : ON Only when printing letter size, performs 95% reduced		
	size.	printing of the entire image (in both of main and sub directions)		
		Report printing and printing from the bypass tray are excluded.		
2-	Not used.	Do not change the settings.		
3				

4	Receiver name printed on	Selects the printing target on the transmission result report.
	the transmission result	0: All receivers
	report	1: Printing only receivers which have received fax transmission.
5-	Not used.	Do not change the settings.
7		

Printer Switch 08 - Not used (do not change the settings)
Printer Switch 09 - Not used (do not change the settings)
Printer Switch 0A - Not used (do not change the settings)
Printer Switch 0B - Not used (do not change the settings)
Printer Switch 0C - Not used (do not change the settings)

Prin	ter Sv	vitch (0E (SP No. 1-103-01	5)
No	Function			Comments
0*	Pape	er size	selection priority	0: A paper size that has the same width as the received data is
	0: W	idth		selected first.
	1: Le	ngth		1: A paper size which has enough length to print all the
				received lines without reduction is selected first.
1*	Pape	er size	selected for	This switch determines which paper size is selected for
	printi	ing A4	width fax data	printing A4 width fax data, when the machine has both A4 and
	0: 8.	5" x 11	" size	8.5" x 11" size paper.
	1: A4	size		
2	Page	e sepa	ration	1: If all paper sizes in the machine require page separation to
	0: Enabled			print a received fax message, the machine does not print the
	1: Disabled		t	message (Substitute Reception is used).
				After a larger size of paper is set in a cassette, the machine
				automatically prints the fax message.
3-	Print	ing the	e sample image on	"Same size" means the sample image is printed at 100%,
4	repo	rts	·	even if page separation occurs.
	Bit	Bit	Setting	User Parameter Switch 19 (13H) bit 4 must be set to "0" to
	4	3		enable this switch.
	0	0	The upper half	Refer to Detailed Section Descriptions for more on this
	only 0 1 50% reduction (sub-scan only) 1 0 Same size		only	feature.
			50% reduction	
			(sub-scan only)	
			Same size	
	1	1	Not used	
5-	Not used			Do not change the settings.

6		
7	Equalizing the reduction ratio	0: When page separation has taken place, all the pages are
	among separated pages	reduced with the same reduction ratio.
	(Page Separation)	1: Only the last page is reduced to fit the selected paper size
	0: Enabled	when page separation has taken place. Other pages are
	1: Disabled	printed without reduction.

^{*} This setting can be used for the client-side machine which has no FCU.

Prin	Printer Switch 0F (SP No. 1-103-016)					
No	Function			Comments		
0-	Smoot	thing fe	ature	(0, 0) (0, 1): Disable smoothing if the machine receives halftone		
1*	Bit 1	Bit 0	Setting	images from other manufacturers fax machines frequently.		
	0	0	Disabled			
	0	1	Disabled			
	1	0	Enabled			
	1	1	Not used			
2*	Duplex printing		g	1: The machine always prints received fax messages in duplex		
	0: Disabled			printing mode:		
	1: Enabled					
3	Binding direction for		ion for	0: Sets the binding for the left edge of the stack.		
	Duplex printing			1: Sets the binding for the top of the stack.		
	0: Left binding					
	1: Top binding					
4-7	Not us	ed		Do not change the settings.		

^{*} This setting can be used for the client-side machine which has no FCU.

Bit Switches - 3



• Do not adjust a bit switch or use a setting that is described as "Not used", as this may cause the machine to malfunction or to operate in a manner that is not accepted by local regulations. Such bits are for use only in other areas, such as Japan.

Default settings for bit switches are not listed in this manual. Refer to the System Parameter List printed by the machine.

Communication Switches

Con	Communication Switch 00 (SP No. 1-104-001)			
No	Function			Comments
0-	Compression modes available in		on modes available in	These bits determine the compression capabilities to be
1	receive mode		de	declared in phase B (handshaking) of the T.30 protocol.
	Bit	Bit	Modes	
	1	0		
	0	0	MH only	
	0	1	MH/MR	
	1	0	MH/MR/MMR	
	1	1	MH/MR/MMR/JBIG	
2-	Com	pressi	on modes available in	These bits determine the compression capabilities to be
3	trans	transmit mode		used in the transmission and to be declared in phase B
	Bit	Bit	Modes	(handshaking) of the T.30 protocol.
	3	2		
	0	0	MH only	
	0	1	MH/MR	
	1	0	MH/MR/MMR	
	1	1	MH/MR/MMR/JBIG	
4	Not used			Do not change the settings.
5	JBIG	comp	ression method:	Change the setting when communication problems occur
	Rece	eption		using JBIG compression.
	0: Only basic supported		sic supported	
	1: Basic and optional both supported		nd optional both	
6	JBIG compression method:		pression method:	Change the setting when communication problems occur
	Tran	smissi	on	using JBIG compression.
	0: Ba	asic m	ode priority	
	1: O	otional	mode priority	
7	Clos	ed net	work (reception)	1: Reception will not go ahead if the polling ID code of the

0: Disabled	remote terminal does not match the polling ID code of the
1: Enabled	local terminal. This function is only available in NSF/NSS
	mode.

Con	ommunication Switch 01 (SP No. 1-104-002)			
No	Funct	tion		Comments
0	ECM	ECM		If this bit is set to 0, ECM is switched off for all communications.
	0: Off 1: On			In addition, V.8 protocol and JBIG compression is switched off
				automatically.
1	Not us	sed		Do not change the setting.
2-	Wrong	g conr	nection	(0,1): The machine will disconnect the line without sending a fax
3	preve	ntion ı	method	message if the last 8 digits of the received CSI do not match the
	Bit 3	Bit 2	Setting	last 8 digits of the dialed telephone number. This does not work
	0	0	None	when manually dialed.
	0	1	8 digit CSI	(1,0): The same as above, except that only the last 4 digits are
	1	0	4 digit CSI	compared.
	1	1 1 CSI/RTI		(1,1): The machine will disconnect the line without sending a fax
				message if the other end does not identify itself with an RTI or
				CSI.
				(0,0): Nothing is checked; transmission will always go ahead.
				♦ Note
				This function does not work when dialing is done from
				the external telephone.
4-	Not us	sed		Do not change the setting.
5				
6-			rintable page	The setting determined by these bits is informed to the
7	length available			transmitting terminal in the pre-message protocol exchange (in the
	Bit 7	Bit	Setting	DIS/NSF frames).
		6		
	0	0	No limit	
	0	1	B4 (364 mm)	
	1	0	A4 (297 mm)	
	1	1	Not used	

Con	Communication Switch 02 (SP No. 1-104-003)			
No	o Function Comments			
0	G3 Burst error threshold	If there are more consecutive error lines in the received		
	0: Low 1: High	page than the threshold, the machine will send a negative		

		T		
		response. The Low and	d High threshold values depend on	
		the sub-scan resolution and are as follows.		
		100 dpi	6(L) →12(H)	
		200 dpi	12(L) →24(H)	
		300 dpi	18(L) →36(H)	
		400 dpi	24(L) →48(H)	
1	Acceptable total error line ratio	If the error line ratio for	a page exceeds the acceptable ratio,	
	0: 5% 1: 10%	RTN will be sent to the	other end.	
2	Treatment of pages received	0: Pages received with	errors are not printed.	
	with errors during G3 reception			
	0: Deleted from memory without			
	printing			
	1: Printed			
3	Hang-up decision when a	0: The next page will be	e sent even if RTN or PIN is received.	
	negative code (RTN or PIN) is	1: The machine will ser	nd DCN and hang up if it receives	
	received during G3 immediate	RTN or PIN.		
	transmission	This bit is ignored for m	nemory transmissions or if ECM is	
	0: No hang-up, 1: Hang-up	being used.		
4-	Not used	Do not change these s	ettings.	
7				

Con	Communication Switch 03 (SP No. 1-104-004)			
No	Function	Comments		
0-	Maximum number of page retransmissions in a G3	00 - FF (Hex) times.		
7	memory transmission	This setting is not used if ECM is		
		switched on.		
		Default setting - 03(H)		

Con	Communication Switch 04 (SP No. 1-104-005)			
No	Function	Comments		
0	Remote mode switch	Set this bit to ON when you wish to switch TEL mode to FAX mode		
	(TEL mode)	remotely.		
	0: Disable			
	1: Enable (Active)			
1	Remote mode switch	Set this bit to ON when you wish to turn on the remote mode switch		
	(FAX mode)	after automatic reception with FAX mode.		
	0: Disable			
	1: Enable (Active)			

2	Remote mode switch	Set this bit to ON when you wish to turn on the remote mode switch
	(AUTO mode)	after automatic reception with AUTO mode.
	0: Disable	
	1: Enable (Active)	
3-	Not used	Do not change the settings.
7		

Con	Communication Switch 05 (SP No. 1-104-006)			
No	No Function Comments			
0-	Remote mode switch	Enter the number to switch between TEL/FAX modes using the		
3	number	external phone.		
	00-09 (0-9:HEX)			
4-	Not used	Do not change the settings.		
7				

Communication Switch 06 - Not used (do not change the settings)		
Communication Switch 07 - Not used (do not change the settings)		
Communication Switch 08 - Not used (do not change the settings)		

Con	Communication Switch 09 (SP No. 1-104-009)			
No	No Function Comments			
0-	Minimum interval between	This value is the minimum time that the machine waits		
7	automatic dialing attempts before it dials the next destination.			

Con	Communication Switch 0A (SP No. 1-104-011)			
No	Function	Comments		
0	Point of resumption of memory	0: The transmission begins from the page where		
	transmission upon redialing	transmission failed the previous time.		
	0: From the error page	1: Transmission begins from the first page, using		
	1: From page 1	normal memory transmission.		
1-	Not used	Do not change these settings.		
7				

Con	Communication Switch 0B (SP No. 1-104-012)		
No	o Function Comments		
0-	Not used	Do not change these settings.	
3			
4	Printout of the message	When the machine is acting as a Transfer Station, this bit	

	when acting as a Transfer	determines whether the machine prints the fax message coming
	Station	in from the Requesting Terminal.
	0: Disabled, 1: Enabled	
5-	Not used	Do not change the settings.
7		

Communication Switch 0C - Not used (do not change the settings)

Con	Communication Switch 0D (SP No. 1-104-014)		
No	Function	Comments	
0-	The available memory threshold,	00 to FF (Hex), unit = 4 kbytes	
7	below which ringing detection (and	(e.g., 06(H) = 24 kbytes)	
	therefore reception into memory) is	One page is about 24 kbytes.	
	disabled	The machine refers to this setting before each fax	
		reception. If the amount of remaining memory is below	
		this threshold, the machine cannot receive any fax	
		messages.	
		If this setting is kept at 0, the machine will detect ringing	
		signals and go into receive mode even if there is no	
		memory available. This will result in communication	
		failure.	

Con	Communication Switch 0E (SP No. 1-104-015)		
No	Function	Comments	
0-	Minimum interval between	06 to FF (Hex), unit = 2 s	
7	automatic dialing attempts	(e.g., 06(H) = 12 s)	
		This value is the minimum time that the machine waits	
		before it dials the next destination.	

Communication Switch 0F – Not used (do not change the settings.)

Con	Communication Switch 10 (SP No. 1-104-017)		
No	Function	Comments	
0-	Memory transmission: Maximum number of dialing attempts to the same	01 – FE (Hex)	
7	destination	times	

Communication Switch 11 – Not used (do not change the settings.)

Communication Switch 12 (SP No. 1-104-019)		
No	Function	Comments
0-	Memory transmission: Interval between dialing attempts to the same	01 – FF (Hex)
7	destination	minutes

Communication Switch 13 - Not used (do not change the settings.)

Con	Communication Switch 14 (SP No. 1-104-021)			
No	Function			Comments
0	Inch-to-	-mm con	version during	0: In immediate transmission, data scanned in inch format are
	transm	ission		transmitted without conversion.
	0: Disa	bled, 1: l	Enabled	In memory transmission, data stored in the SAF memory in
				mm format are transmitted without conversion.
				Note: When storing the scanned data into SAF memory, the
				fax unit always converts the data into mm format.
				1: The machine converts the scanned data or stored data in
				the SAF memory to the format which was specified in the set-
				up protocol (DIS/NSF) before transmission.
1-	Not used			Do not change the factory settings.
5				
6-	Availab	Available unit of resolution in		For the best performance, do not change the factory settings.
7	which f	which fax messages are		The setting determined by these bits is informed to the
	receive	received		transmitting terminal in the pre-message protocol exchange (in
	Bit 7	Bit 6	Unit	the DIS/NSF frames).
	0	0	mm	
	0	1	inch	
	1	0	mm and inch	
	1	1	Not used	

Communication Switch 15 – Not used (do not change the settings)

Communication Switch 16 – Not used (do not change the settings)

Con	Communication Switch 17 (SP No. 1-104-024)		
No	Function Comments		
0	SEP reception	0: Polling transmission to another maker's machine using	
	0: Disabled	the SEP (Selective Polling) signal is disabled.	
	1: Enabled		
1	SUB reception	0: Confidential reception to another maker's machine using	

	0: Disabled	the SUB (Sub-address) signal is disabled.
	1: Enabled	
2	PWD reception	0: Disables features that require PWD (Password) signal
	0: Disabled	reception.
	1: Enabled	
3-	Not used	Do not change the settings.
4		
5	PSTN dial-in routing setting	1: The machine sets multiple PSTN dial-in numbers in the
	0: OFF	PSTN dial-in line and transfers received data from each
	1: ON	PSTN dial-in number to each address.
6	Not used	Do not change the settings.
7	Action when there is no box with	Change this setting when the customer requires.
	an F-code that matches the	
	received SUB code	
	0: Disconnect the line	
	1: Receive the message	
	(using normal reception mode)	

Com	Communication Switch 18 (SP No. 1-104-025)		
No	Function Comments		
0-4	Not used	Do not change the settings.	
5	IP-Fax dial-in routing selection	1: Transfers received data to each IP-Fax dial-in number.	
	0: Off	IP-Fax dial-in number is a 4-digit number.	
	1: On		
6-7	Not used	Do not change the settings.	

Communication Switch 19 - Not used (do not change the settings)
Communication Switch 1A - Not used (do not change the settings)

Con	Communication Switch 1B (SP No. 1-104-028)		
No	Function Comments		
0-	Extension access code	If the PABX does not support V.8/V.34 protocol procedure, set this bit	
7	(0 to 7) to turn V.8	to "1" to disable V.8.	
	protocol On/Off	Example: If "0" is the PSTN access code, set bit 0 to 1. When the	
	0: On	machine detects "0" as the first dialed number, it automatically	
	1: Off	disables V.8 protocol. (Alternatively, if "3" is the PSTN access code,	
		set bit 3 to 1.)	

Con	Communication Switch 1C (SP No. 1-104-029)					
No	Function	Comments				
0-	Extension access code	Refer to communication switch 1B.				
1	(8 and 9) to turn V.8	Example: If "8" is the PSTN access code, set bit 0 to 1. When the				
	protocol On/Off	machine detects "8" as the first dialed number, it automatically				
	0: On	disables V.8 protocol. (If "9" is the PSTN access code, use bit 1.)				
	1: Off					
2-	Not used	Do not change the settings.				
7						

Communication Switch 1D - Not used (do not change the settings)						
Communication Switch 1E - Not used (do not change the settings)						
Communication Switch 1F - Not used (do not change the settings)						

Bit Switches - 4



• Do not adjust a bit switch or use a setting that is described as "Not used", as this may cause the machine to malfunction or to operate in a manner that is not accepted by local regulations. Such bits are for use only in other areas, such as Japan.

Default settings for bit switches are not listed in this manual. Refer to the System Parameter List printed by the machine.

G3 Switches

G3 :	Switch	00 (SP	No. 1-105-001)		
No	Funct	ion		Comments	
0	Monito	or speak	ker during	(0, 0): The monitor speaker is disabled all through the	
1	comm	unicatio	on (tx and rx)	communication.	
	Bit 1	Bit 0	Setting	(0, 1): The monitor speaker is on up to phase B in the T.30	
	0	0	Disabled	protocol.	
	0	1	Up to Phase B	(1, 0): Used for testing. The monitor speaker is on all through	
	1	1 0 All the time		the communication. Make sure that you reset these bits after	
	1 1 Not used		Not used	testing.	
		•	•		
2	Monito	or speak	ker during	1: The monitor speaker is enabled during memory	
	memo	ry trans	mission	transmission.	
	0: Disa	abled 1:	Enabled		
3-	Not us	ed		Do not change the settings.	
5					
6	Dedica	ated G3	line mode	Set this bit to 1 when you wish to dedicate a line for G3.	
	selecti	ion			
	0: Off	1: On ([Dedicated)		
7	Not us	ed		Do not change this setting.	

G3 S	G3 Switch 01 (SP No. 1-105-002)					
No	Function	Comments				
0-	Not used	Do not change the settings.				
3						
4	DIS frame length	1: The bytes in the DIS frame after the 4th byte will not be transmitted (set				
	0: 10 bytes 1: 4	to 1 if there are communication problems with PC-based faxes which				
	bytes	cannot receive the extended DIS frames).				
5	Not used	Do not change the setting.				

6	Forbid	Do not change this setting (Default: 0: Off), unless a communication
	CED/ANsam	problem is caused by a CED or ANSam transmission.
	output	
	0: Off	
	1: On (Forbid	
	output)	
7	Not used	Do not change this setting.

G3 \$	G3 Switch 02 (SP No. 1-105-003)						
No	Function	Comments					
0	G3 protocol mode	Change this bit to 1 only when the other end can only communicate with					
	used	machines that send T.30-standard frames only.					
	0: Standard and	1: Disables NSF/NSS signals (these are used in non-standard mode					
	non-standard	communication)					
	1: Standard only						
1-	Not used	Do not change the settings.					
6							
7	Short preamble	Refer to Appendix B in the Group 3 Facsimile Manual for details about					
	0: Disabled 1:	Short Preamble.					
	Enabled						

G3 9	Switch 03 (SP No. 1-105-004)	
No	Function	Comments
0	DIS detection number	0: The machine will hang up if it receives the same DIS frame
	(Echo countermeasure)	twice.
	0: 1	1: Before sending DCS, the machine will wait for the second
	1: 2	DIS which is caused by echo on the line.
1-	Not Used	Do not change the settings.
2		
3	ECM frame size	Keep this bit at "0" in most cases.
	0: 256 bytes	
	1: 64 bytes	
4	CTC transmission conditions	0: When using ECM in non-standard (NSF/NSS) mode, the
	0: After one PPR signal	machine sends a CTC to drop back the modem rate after
	received	receiving a PPR, if the following condition is met in
	1: After four PPR signals	communications at 14.4, 12.0, 9.6, and 7.2 kbps.
	received (ITU-T standard)	√NTransmit≤NRe send

		NTransmit- Number of transmitted frames
		NResend- Number of frames to be retransmitted
		1: When using ECM, the machine sends a CTC to drop back
		the modem rate after receiving four PPRs.
		PPR, CTC: These are ECM protocol signals.
		This bit is not effective in V.34 communications.
5	Modem rate used for the next	1: The machine's tx modem rate will fall back before sending
	page after receiving a	the next page if a negative code is received. This bit is ignored
	negative code (RTN or PIN)	if ECM is being used.
	0: No change 1: Fallback	
6	Not used	Do not change the settings
7	Select detection of reverse	This switch is used to prevent reverse polarity in ringing on the
	polarity in ringing	phone line (applied to PSTN-G3 ringing). Do not change this
	0: Off	setting
	1: On	0: No detection
		1: Detection (Japan and Korea only)

G3 Switch 04 (SP No. 1-105-005)						
No	Function	Comments				
0-	Training error	0 - F (Hex); 0 - 15 bits				
3	detection threshold	If the number of error bits in the received TCF is below this threshold,				
		the machine informs the sender that training has succeeded.				
4-	Not used	Do not change the settings.				
7						

G3 S	G3 Switch 05 (SP No. 1-105-006)						
No	Function					Comments	
0-	Initial ⁷	Initial Tx modem rate (kbps)				These bits set the initial starting modem rate for	
3	Bit 3	Bit	Bit	Bit 0	kbps	transmission.	
		2	1			Use the dedicated transmission parameters if you need to	
	0	0	0	1	2.4	change this for specific receivers.	
	0	0	1	0	4.8	If a modem rate 14.4 kbps or slower is selected, V.8	
	0	0	1	1	7.2	protocol should be disabled manually.	
	0	1	0	0	9.6	Cross reference	
	0	1	0	1	12.0	V.8 protocol on/off - G3 switch 03, bit 2	
	0	1	1	0	14.4		
	0	1	1	1	16.8		

	1	0	0	0	19.2	
	1	0	0	1	21.6	
	1	0	1	0	24.0	
	1	0	1	1	26.4	
	1	1	0	0	28.8	
	1	1	0	1	31.2	
	1	1	1	0	33.6	
	Other settings - Not used					
4-	Initial modem type for 9.6 k or			e for 9.6	k or	These bits set the initial modem type for 9.6 and 7.2 kbps if
5	7.2 kbps.					the initial modem rate is set at these speeds.
	Bit 5 Bit Setting					
	4					
	0	0	١	V.29		
	0	1	١	V .17		
	1 0 V.34					
	1	1	1	Not used		
6-	Not used					Do not change the settings.
7						

G3 5	Switch 06 (SP No. 1	-105-0	07)			
No	Function					Comments
0-	Initial Rx modem ra	te(kbp	s)			These bits set the initial starting modem rate for
3	Bit 3	Bit	Bit	Bit	kbps	the reception.
		2	1	0		Use a lower setting if high speeds pose problems
	0	0	0	1	2.4	during the reception.
	0	0	1	0	4.8	If a modem rate 14.4 kbps or slower is selected,
	0	0	1	1	7.2	V.8 protocol should be disabled manually.
	0	1	0	0	9.6	Cross-reference
	0	1	0	1	12.0	V.8 protocol on/off - G3 switch 03, bit2
	0	1	1	0	14.4	
	0	1	1	1	16.8	
	1	0	0	0	19.2	
	1	0	0	1	21.6	
	1	0	1	0	24.0	
	1	0	1	1	26.4	
	1	1	0	0	28.8	
	1	1	0	1	31.2	
	1	1	1	0	33.6	

	Other settings - Not used				
4-	Modem types available	e for re	eception	on	
7	The setting of these bits is used to inform the transmitting terminal of the available modem type				
	for the machine in rece	eive m	ode.		
	If V.34 is not selected,	V.8 pr	otocol	must l	be disabled manually.
	Cross-reference				
	V.8 protocol on/off - G3 switch 03, bit 2				
	Bit 7	Bit	Bit	Bit	Types
		6	5	4	
	0	0	0	1	V.27ter
	0	0	1	0	V.27ter, V.29
	0	0	1	1	V.27ter, V.29, V.33
	0	1	0	0	V.27ter, V.29, V.17
	0	1	0	1	V.27ter, V.29, V.17, V.34
	Other settings - Not us	ed			

G3 :	Switch 07 (SP No. 1-105-008)				
No	Fund	ction		Comments	
0-	PSTN cable equalizer		e equalizer	Use a higher setting if there is a signal loss at higher frequencies	
1	(tx m	node: Ir	iternal)	because of the length of wire between the modem and the telephone	
	Bit Bit 0 Setting		Setting	exchange.	
	1			Use the dedicated transmission parameters for specific receivers.	
	0	0	None	Also, try using the cable equalizer if one or more of the following	
	0	1	Low	symptoms occur.	
	1	0	Medium	Communication error	
	1	1	High	Modem rate fallback occurs frequently.	
	1		-	⊍ Note	
				This setting is not effective in V.34 communications.	
2-	PSTN cable equalizer		e equalizer	Use a higher setting if there is a signal loss at higher frequencies	
3	(rx m	node: lı	nternal)	because of the length of wire between the modem and the telephone	
	Bit 3	Bi	Setting	exchange.	
		2		Also, try using the cable equalizer if one or more of the following	
	0	0	None	symptoms occur.	
	0	1	Low	Communication error with error codes such as 0-20, 0-23, etc.	
	1	0	Medium	Modem rate fallback occurs frequently.	
	1	1	High	↓ Note	
		•		This setting is not effective in V.34 communications.	
4	PST	N cable	e equalizer	Keep this bit at "1".	

	(V.8/V.17 rx mode:	
	External)	
	0: Disabled	
	1: Enabled	
5	Not used	Do not change the settings.
6	Parameter selection for	0: This uses the fixed table in the ROM for dial tone detection.
	dial tone	1: This uses the specific parameter adjusted with SRAM (69ECBEH -
	detection	69ECDEH). Select this if the dial tone cannot be detected when the
	0: Normal parameter	"Normal parameter: 0" is selected.
	1: Specific parameter	
7	Not used	Do not change the settings.

G3 Switch 08 - Not used (do not change the settings)
G3 Switch 09 - Not used (do not change the settings)

G3 9	3 Switch 0A (SP No. 1-105-011)				
No	Function			Comments	
0-	Maximum allowable		wable	These bits set the acceptable modem carrier drop time.	
1	carrier	drop d	uring image	Try a longer setting if error code 0-22 is frequent.	
	data reception		า		
	Bit 1	Bit 0	Value		
			(ms)		
	0	0	200		
	0	1	400		
	1	0	800		
	1 1 Not used		Not used		
2	Select cancellation of		lation of	This switch setting determines if high-speed receiving ends if the	
	high-speed RX if carrier		X if carrier	carrier signal is lost when receiving during non-ECM mode	
	signal lost while receiving		ile receiving		
	0: Off				
	1: On				
3	Not us	ed		Do not change the settings	
4	Maxim	num allo	owable	This bit set the maximum interval between EOL (end-of-line) signals	
	frame interval during		during	and the maximum interval between ECM frames from the other	
	image data reception.		eception.	end.	
	0: 5 s 1: 13 s			Try using a longer setting if error code 0-21 is frequent.	
5	Not us	ed		Do not change the settings.	
6	Recon	structio	n time for	When the sending terminal is controlled by a computer, there may	

	the first line in receive	be a delay in receiving page data after the local machine accepts	
	mode	set-up data and sends CFR. This is outside the T.30	
	0: 6 s 1: 12 s	recommendation. But, if this delay occurs, set this bit to 1 to give	
		the sending machine more time to send data.	
		Refer to error code 0-20.	
		ITU-T T.30 recommendation: The first line should come within 5 s of	
		CFR.	
7	Not used	Do not change the settings.	

G3 Switch 0B - Not used (do not change the settings).

G3 S	G3 Switch 0C (SP No. 1-105-013)				
No	Function	Comments			
0-	Not used	Do not change these settings.			
1					
4-	Select detection of DTMF/DP detection	This setting determines how to detect the signals			
5	when using remote switch.	from the handset when remote switch is active.			
	00: DTMF+PSTN (Simultaneous				
	detection)				
	01: DTMF				
	10: DP (10 PPPS)				
	11: DP (20 PPS)				
6-	Not used	Do not change these settings.			
7					

G3 Switch 0D - Not used (do not change the settings).

G3 S	G3 Switch 0E (SP No. 1-105-015)				
No	Function	Comments			
0-	Set CNG send time interval				
7	Some machines on the receiving side may not be able to automatically switch the 3-second				
	CNG interval.				
	High order bit	3000-2250ms: 3000-50xNms			
		3000 – 50 x Nms 0F (3000 ms) <= N <= FF (2250 ms)			
	Low order bit	00-0E(3000-3700ms: 3000+50xNms			
		3000 – 50 x Nms 0F (3000 ms) <= N <= 0F (3700 ms)			

G3 Switch 0F (SP No. 1-105-016)

No	Function	Comments
0	Alarm when an error occurred in	If the customer wants to hear an alarm after each error
	Phase C or later	communication, change this bit to "1".
	0: Disabled	
	1: Enabled	
1	Alarm when the handset is off-hook	If the customer wants to hear an alarm if the handset is
	at the end of the communication	off-hook at the end of fax communication, change this bit
	0: Disabled	to "1".
	1: Enabled	
2-	Not used	Do not change these settings.
3		
4	Sidaa manual calibration setting	1: manually calibrates for communication with a line
	0: Off	whose current change occurs such as an optical fiber
	1: On	line.
5-	Not used	Do not change the settings.
7		

Bit Switches - 5



• Do not adjust a bit switch or use a setting that is described as "Not used", as this may cause the machine to malfunction or to operate in a manner that is not accepted by local regulations. Such bits are for use only in other areas, such as Japan.

Default settings for bit switches are not listed in this manual. Refer to the System Parameter List printed by the machine.

IP Fax Switches

IP F	P Fax Switch 00 (SP No. 1-111-001)				
No.	Function	Comments			
0	Not used	Do not change this setting.			
1	IP Fax Transport	Selects TCP or UDP protocol for IP-Fax			
	0: TCP, 1: UDP				
2	IP Fax single port	Selects a single data port.			
	selection				
	0: OFF, 1: ON				
	(enable)				
3	IP Fax double ports	Selects whether IP-Fax uses a double port.			
	(single data port)				
	selection				
	0: OFF, 1: ON				
	(enable)				
4	IP Fax Gatekeeper	Enables/disables the gatekeeper for IP-Fax.			
	0: OFF, 1: ON				
	(enable)				
5	IP Fax T30 bit signal	Reverses the T30 bit signal.			
	reverse				
	0: LSB first, 1: MSB				
	first				
6	IP Fax max bitrate	When "0" is selected, the max bitrate does not affect the value of the			
	setting	DIS/DCS.			
	0: Not affected, 1:	When "1" is selected, the max bitrate affects the value of the DIS/DCS.			
	Affected				
7	IP Fax received	When "0" is selected, fax data is received without checking the			
	telephone number	telephone number.			
	confirmation	When "1" is selected, fax data is received only when confirming that			
	0: No confirmation, 1:	the telephone number from the sender matches the registered			

Confirmation	telephone number in this machine. If this confirmation fails, the line is
	disconnected.

IP Fa	IP Fax Switch 01 (SP No. 1-111-002)					
No.	Function			Comme	ents	
0-3	IP Fax delay level setting					
	Selects the ad	cceptable delay	/ level.			
	Level 0 is the	highest quality	,			
	Default is "00	00" (level 0).				
	Bit 3	Bit 2	Bit 1		Bit 0	
	0	0	0		0	Level 0
	0	0	0		1	Level 1
	0	0	1		0	Level 2
	0	0	1		1	Level 3
4-7	IP Fax pream	ble wait time se	etting	Selects the preamble wait time.		
				[00 to 0f]		
				There are 16 values in this 4-bit binary switch combination.		
				Waiting time: set value level x 100 ms		
				Max: 0f	(1500 ms) Min: 00 (N	o wait time)
				The default is "0000" (00H).		

IP Fa	IP Fax Switch 02 (SP No. 1-111-003)			
No.	Function	Comments		
0	IP Fax bit signal reverse setting	When "0" is selected, the bit signal reverse method is		
	0: Maker code setting	decided by the maker code.		
	1: Internal bit switch setting	When "1" is selected, the bit signal reverse method is		
		decided by the internal bit switch.		
		When communicating between IP Fax devices, LSB first is		
		selected.)		
1	IP Fax transmission speed	Selects the transmit speed for IP Fax communication.		
	setting			
	0: Modem speed			
	1: No limitation			
2	SIP transport setting	This bit switch sets the transport that has priority for		
	0: TCP	receiving IP Fax data.		
	1: UDP	This function is activated only when the sender has both		
		TCP and UDP.		
3	CCM connection	When "1" is selected, only the connection call message		

6-7	Not used	Do not change these settings.
		communication.
	1: Limit for image compression	image compression other than JBIG or MMR with ECM
	compression	1: When the other end machine is Cisco, this permits the
	0: No limit for image	ECM communication.
5	ECM communication setting	0: This does not limit the type of image compression with
		message.
	1: Not answer	server not registered for the machine and send a refusal
	0: Answer	1: This does not receive the INVITE message from the SIP
	from a non-registered SIP server	not registered for the machine.
4	Message reception selection	0: This answers the INVITE message from the SIP server
	1: CCM connection	
	0: No CCM connection	with H.323 or no tunneled H.245 is transmitted via CCM.

IP Fa	IP Fax Switch 03 (SP No. 1-111-004)						
No.	Function	Comments					
0	Effective field limitation for G3	Limits the effective field for standard G3 function					
	standard function information	information.					
	0: OFF, 1: 4byte (DIS)						
1	Switching between G3 standard and	Enables/disables switching between G3 standard and					
	G3 nonstandard	G3 non-standard.					
	0: Enable switching						
	1: G3 standard only						
2	Not used	Do not change this setting.					
3	ECM frame size selection at	Selects the ECM frame size for sending.					
	transmitting						
	0: 256byte, 1: 64byte						
4	DIS detection times for echo	Sets the number of times for DIS to detect echoes.					
	prevention						
	0: 1 time, 1: 2 times						
5	CTC transmission selection	When "0" is selected, the transmission condition is					
	0: PPRx1	decided by error frame numbers.					
	1: PPRx4	When "1" is selected, the transmission condition is					
		based on the ITU-T method.					
6	Shift down setting at receiving	Selects whether to shift down when negative codes					
	negative code	are received.					
	0: OFF, 1: ON						
7	Not used	Do not change this setting.					

IP Fax Switch 04 (SP No. 1-111-005)			
No.	Function Comments		
0-3	TCF error threshold	Sets the TCF error threshold level. [00 to 0f]	
		The default is "1111" (0fH).	
4-7	Not used	Do not change these settings.	

IP Fa	IP Fax Switch 05 (SP No. 1-111-006)						
No.	Function					Comments	
0-3	Modem bit rate setting for transmission (kbps)					Sets the modem bit rate for transmission. The	
						default is "0110" (14.4K bps).	
	Bit 3	Bit	Bit 1	Bit	kbps		
		2		0			
	0	0	0	1	2.4		
	0	0	1	1	4.8		
	0	0	1	1	7.2		
	0	1	0	0	9.6		
	0	1	0	1	12.0		
	0	1	1	0	14.4		
4-5	Modem s	etting	for transmis	sion		Sets the modem type for transmission.	
	Bit 5	В	it 4	Т	ypes	The default is "00" (V29).	
	0	0		٧	/29		
	0	1	1		′ 17		
	1	0	0		lot used		
	1	1		N	lot used		
6-7	Not used					Do not change these settings.	

IP Fa	IP Fax Switch 06 (SP No. 1-111-007)						
No.	Function			С	omments		
0-3	Modem bit rate setting for reception						
	Sets the mo	odem bit rate	for reception.	The de	fault is "0110" (14.4K bps).		
4-7	Modem sett	ting for recept	tion				
	Sets the modem type for reception. The default is "0100" (V27ter, V29, V17).						
	Bit 7 Bit 6 Bit 5 Bit 4 Types						
	0 0 0 1 V.27ter						
	0 0 1 0 V.27ter, V.29 0 0 1 1 V.27ter, V.29, V.33 0 1 0 0 V.27ter, V.29, V.17/V.33						
	Other settin	gs - Not used					

IP Fa	IP Fax Switch 07 (SP No. 1-111-008)							
No.	Function	Comments						
0	TSI information	Adds or does not add TSI information to NSS(S).						
	0: Not added, 1: Added							
1	DCN transmission setting at T1 timeout	Transmits or does not transmit DCN at T1 timeout.						
	0: Not transmitted							
	1: Transmitted							
2	Not used	Do not change this setting.						
3	Hang up setting at DIS reception disabled	Sets whether the machine disconnects after DIS						
	0: No hang up	reception.						
	1: Hang up after transmitting DCN							
4	Number of times for training	Selects the number of times training is done at the						
	0: 1 time, 1: 2 times	same bit rate.						
5	Space CSI transmission setting at no CSI	When "0" is selected, frame data is enabled.						
	registration	When "1" is selected, the transmitted data is all						
	0: Not transmitted	spaces.						
	1: Transmitted							
6-7	Not used	Do not change these settings.						

IP Fa	IP Fax Switch 08 (SP No. 1-111-009)								
No.	Function			Comments					
0-1	T1 time	er adjus	tment	Adjusts the T1 timer.					
	Bit 1	Bit 0		The default is "00" (35 seconds).					
	0	0	35 s						
	0	1	40 s						
	1	0	50 s						
	1	1	60 s						
2-3	3 T4 timer adjustment		tment	Adjust the T4 timer.					
	Bit 3	Bit 2		The default is "00" (3 seconds).					
	0	0	3 s						
	0 1 3.5		3.5						
	1 0 4 s		s						
			4 s						
	1	1	5 s						
4-5	T0 time	er adjus	tment	Adjusts the failsafe timer. This timer sets the interval between "setup"					
	Bit 5	Bit 4		data transmission and T.38 phase decision. If your destination return is					
	0	0	75 s	late on the network or G3 fax return is late, adjust the longer interval					

	0	1	120	timer.
			s	The default is "00" (75 seconds).
	1	0	180	
			s	
	1	1	240	
			s	
6-7	Not used		I	Do not change these settings.

IP Fa	ax Switch	09 (SP N	o. 1-111-010)	
No.	Function	n		Comments
0	Network	I/F setting	for SIP	Selects the connection type (IPV4 or IPV6) to connect to the
	connecti	on		SIP server.
	0: IPv4			
	1: IPv6.			
1	Network	I/F setting	for Fax	0: The I/F setting for fax communication follows the setting
	commun	ication		for SIP server connection.
	0: Same	setting as	SIP server	1: The negotiation between the SIP server and the device
	connecti	on		decides whether IPv4 or IPv6 is used for the I/F setting for
	1: Autom	natic settin	g	fax communication.
2	Record-route setting			0: Disables the record-route function of the SIP server.
	0: Disab	le		1: Enables the record-route function of the SIP server.
	1: Enabl	е		
3-4	re-INVIT	E transmis	ssion delay	This changes the interval for transmitting re-INVITE after
	timer set	ting		receiving the ACK message transmitted by T.38 device.
	Bit 4 Bit 3			
	0	0	No delay	
	0	1	1 sec	
	1	0	2 sec	
	1	1	3 sec	
5	SIP-IPF	X: Adding	vender	0: Use this setting normally.
	informati	ion selection	on	1: This setting is used only when a customer wants to
	0: Decla	re		connect the machine with SIP server + VOIP-GW provided
	T38Vend	dorInfo=RI	СОН	by AVAYA Inc.
	1: Not de	eclare		
	T38Vend	dorInfo=RI	СОН	
6-7	Not used	d.		Do not change these settings.

IP Fax Switch 0A - Not used (do not change the settings)

IP Fax Switch 0B - Not used (do not change the settings)					
IP Fax Switch 0C - Not used (do not change the settings)					
IP Fax Switch 0D - Not used (do not change the settings)					

IP Fa	IP Fax Switch 0E (SP No. 1-111-013)					
No.	Function	Comments				
0-1	SIP: IP-FAX port mode	Switch the port mode for IP-FAX (T38 transport: UDP) at SIP call				
	(UDP)	control.				
	00: 3 port mode					
	01: 2 port mode					
	10: 1 port mode					
2-3	SIP: IP-FAX port mode	Switch the port mode for IP-FAX (T38 transport: TCP) at SIP call				
	(TCP)	control.				
	00: 3 port mode					
	01: 2 port mode					
	10: 1 port mode					
4-7	Not used.	Do not change these settings.				

NCU Parameters

The following tables give the RAM addresses and the parameter calculation units that the machine uses for ringing signal detection and automatic dialing. The factory settings for each country are also given. Most of these must be changed by RAM read/write (SP2-102), but some can be changed using NCU Parameter programming (SP2-103, 104 and 105); if SP2-103, 104 and 105 can be used, this will be indicated in the Remarks column. The RAM is programmed in hex code unless (BCD) is included in the Unit column.



• The following addresses describe settings for the standard NCU.

#	RAM	Function	Remarks	
	Addr.			
CC	680500	Country/Area code for	Use the Hex value to program the country/area code	
		NCU parameters	directly into this address, or use the decimal value to	
			program it using SP2-103-001	

Country Code List

Country/Area	Decimal	Hex	Country/Area	Decimal	Hex
France	00	00	Asia	18	12
Germany	01	01	Japan	19	13
UK	02	02	Hong Kong	20	14
Italy	03	03	South Africa	21	15
Austria	04	04	Australia	22	16
Belgium	05	05	New Zealand	26	17
Denmark	06	06	Singapore	24	18
Finland	07	07	Malaysia	25	19
Ireland	08	08	China	26	1A
Norway	09	09	Taiwan	27	1B
Sweden	10	0A	Korea	28	1C
Switzerland	11	0B	Brazil	29	1D

#	RAM	Function	Unit	Remarks
	Addr.			
01	6805B4	PSTN: Tx level from the modem	-N – 3	SP2-103-002
			dBm	
02	680572	Acceptable ringing signal frequency:	1000/ N	SP2-103-003
		range 1, upper limit	(Hz).	
03	680573	Acceptable ringing signal frequency:		SP2-103-004
		range 1, lower limit		

04	680574	Acceptable ringing signal frequency:		SP2-103-005
		range 2, upper limit		
05	680575	Acceptable ringing signal frequency:		SP2-103-006
		range 2, lower limit		
06	680576	Number of rings until a call is	1	SP2-103-007
		detected		The setting must not be zero.
07	680577	Minimum required length of the first	20 ms	See Note B.
		ring		SP2-103-008
80	680578	Minimum required length of the	20 ms	SP2-103-009
		second and subsequent rings		
09	680579	Ringing signal detection reset time	20 ms	SP2-103-010
		(LOW)		
10	68057A	Ringing signal detection reset time		SP2-103-011
		(HIGH)		
11	68054A	Time between opening or closing the	1 ms	See Notes A, D and E. SP2-103-
		DO relay and opening the OHDI relay		012
12	68054B	Break time for pulse dialing	1 ms	See Note A.
				SP2-103-013
13	68054C	Make time for pulse dialing	1 ms	See Note A.
				SP2-103-014
14	68054D	Time between final OHDI relay	1 ms	EU only.
		closure and DO relay opening or		SP2-103-015
		closing		See Notes A, D and E.
15	68054E	Minimum pause between dialed digits	20 ms	See Note A and E. SP2-103-016
		(pulse dial mode)		
16	68054F	Time waited when a pause is entered		SP2-103-017
		at the operation panel		See Note A.
17	680550	DTMF tone on time	1 ms	SP2-103-018
18	680551	DTMF tone off time		SP2-103-019
19	680552	Tone attenuation level of DTMF	-N x 0.5	SP2-103-020
		signals while dialing	-3.5	See Note C.
			dBm	
20	680553	Tone attenuation value difference	-dBm x	SP2-103-021
		between high-frequency tone and	0.5	The setting must be less than –
		low-frequency tone in DTMF signals		5dBm, and should not exceed
				the setting at 680552h above.
				See Note C.
21	680554	PSTN: DTMF tone attenuation level	-N x 0.5	SP2-103-022

		after dialling	-3.5	See Note C.
			dBm	
22	680555	ISDN: DTMF tone attenuation level	-dBm x	SP2-103-023
		after dialling	0.5	See Note C.

U Note

- A: Pulse dial parameters (addresses 68054A to 68054F) are the values for 10 pps. If 20 pps is used, the machine automatically compensates.
- B: The first ring may not be detected until 1 to 2.5 wavelengths after the time specified by this parameter.
- C: The calculated level must be between 0 and 10.

The attenuation levels calculated from RAM data are:

High frequency tone:

- 0.5 x N680552/680554-3.5 dBm
- 0.5 x N680555 dBm

Low frequency tone:

- 0.5 x (N680552/680554 + N680553) -3.5 dBm
- 0.5 x (N680555 + N680553) dBm
- *Note: N680552, for example, means the value stored in address 680552(H)
- D: 68054A: Europe Between Ds opening and Di opening, France Between Ds closing and Di opening
 - 68054D: Europe Between Ds closing and Di closing, France Between Ds opening and Di closing
- E: 68054A, 68054D, 68054E: The actual inter-digit pause (pulse dial mode) is the sum of the period specified by the RAM addresses 68054A, 68054D, and 68054E.

RAM Addresses

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( Important
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Do not change the settings that are marked as "Not used" or "Read-only."

680001 to 680004(H) - ROM version (Read only)

680001(H) - Revision number (BCD)

680002(H) - Year (BCD)

680003(H) - Month (BCD)

680004(H) - Day (BCD)

680006 to 680015(H) - Machine's serial number (16 digits - ASCII)

680016(H) - Language code

0: Japanese, 1: UK English, 2: US English, 3: French, 4: German, 5: Spanish, 6: Italian, 7: Dutch, 8:

Swedish, 9: Norwegian, 10: Danish, 11: Finnish, 12: Czech, 13: Hungarian, 14: Polish, 15: Portuguese,

16: Russian, 17: Traditional Chinese, 18: Simplified Chinese, 19: Korean

680018(H) - Total program checksum (low)

680019(H) - Total program checksum (high)

680020 to 68003F(H) - System bit switches

680050 to 68005F(H) - Printer bit switches

680060 to 68007F(H) - Communication bit switches

680080 to 68008F(H) - G3 bit switches

680090 to 68009F(H) - G3-2 bit switches: Not used

6800A0 to 6800AF(H) - G3-3 bit switches: Not used

6800D0(H) - User parameter switch 00 (SWUER_00): Not used

6800D1(H) - User parameter switch 01 (SWUSR_01): Not used

6800D2(H) - User parameter switch 02 (SWUSR_02)

Bit 0: Forwarding mark printing on forwarded messages 0: Disabled, 1: Enabled

Bit 1: Center mark printing on received copies

(This switch is not printed on the user parameter list.)

0: Disabled, 1: Enabled

Bit 2: Reception time printing

(This switch is not printed on the user parameter list.)

0: Disabled, 1: Enabled

Bit 3: TSI print on received messages 0: Disabled, 1: Enabled

Bit 4: Checkered mark printing

(This switch is not printed on the user parameter list.)

0: Disabled, 1: Enabled

Bit 5: Not used

Bit 6: Not used

Bit 7: Not used

6800D3(H) - User parameter switch 03 (SWUSR_03: Automatic report printout)

Bit 0: Transmission result report (memory transmissions) 0: Off, 1: On

Bit 1: Not used

Bit 2: Memory storage report 0: Off, 1: On

Bit 3: Polling reserve report (polling reception) 0: Off, 1: On

Bit 4: Polling result report (polling reception) 0: Off, 1: On

Bit 5: Transmission result report (immediate transmissions) 0: Off, 1: On

Bit 6: Not used

Bit 7: Journal 0: Off, 1: On

6800D4(H) - User parameter switch 04 (SWUSR_04: Automatic report printout)

Bit 0: Not used

Bit 1: Automatic communication failure report and transfer result report output 0: Off, 1: On

Bits 2 to 3: Not used

Bit 4: Indicates the parties 0: Not indicated, 1: Indicated

Bit 5: Include sender's name on reports 0: Off, 1: On

Bit 6: Not used

Bit 7: Inclusion of a sample image on reports 0: Off, 1: On

6800D5(H) - User parameter switch 05 (SWUSR_05)

Bit 0: Substitute reception when the base copier is in an SC condition

0: Enabled, 1: Disabled

Bits 1 and 2: Condition for substitute RX when the machine cannot print messages (Paper end, toner end, jam, and during night mode)

Bit 2: 0, Bit 1: 0 = The machine receives all the fax messages.

Bit 2: 0, Bit 1: 1 = The machine receives the fax messages with RTI or CSI.

Bit 2: 1, Bit 1: 0 = The machine receives the fax messages with the same ID code.

Bit 2: 1, Bit 1: 1 = The machine does not receive anything.

Bit 3: Not used

Bit 4: Not used

Bit 5: Just size printing 0: Off, 1: On

Bit 6: Not used

Bit 7: Add paper display when a cassette is empty 0: Off, 1: On

6800D6(H) - User parameter switch 06 (SWUSR_06)

Bit 0:

Bit 1: V8 protocol (G3-1: Super G3) 0: Off, 1: On

Bit 2: V8 protocol (G3-2: Super G3) 0: Off, 1: On

Bit 3: V8 protocol (G3-3: Super G3) 0: Off, 1: On

6800D7(H) - User parameter switch 07 (SWUSR_07)

Bit 0 Ringing 0: Off, 1: On

Bit1: Automatic answering message 0: Off, 1: On

Bit 2: Parallel memory transmission 0: Off, 1: On

Bits 3 and 4: Not used

Bit 5: Remote control 0: Off, 1: On

Bits 6 and 7: Not used

6800D8(H) - User parameter switch 08 (SWUSR_08)

Bits 0 and 1: Not used.

Bit 2: Authorized reception

0: Only faxes from senders whose RTIs/CSIs are specified for this feature are accepted.

1: Only faxes from senders whose RTIs/CSIs are not specified for this feature are accepted.

Bits 3 to 7: Not used.

6800D9(H) - User parameter switch 09 (SWUSR_09): Not used

6800DA(H) - User parameter switch 10 (SWUSR_0A)

Bits 0 to 2: Not used

Bit 3: Page reduction 0: Off, 1: On

Bits 4 and 5: Not used

Bit 6: Use both e-mail notification and printed reports to confirm the transmission results 0: Off, 1: On

Bit 7: Not used

6800DB(H) - User parameter switch 11 (SWUSR_0B)

Bits 0 and 1: Not used

Bit 2: White original detection 0: Off, 1: On (alarm and an alert message on the LCD)

Bit 3: Receive rejection for 1300 Hz transmission 0: Off (receive), 1: On (not receive)

Bit 5: Not used

Bit 6: Printout of messages received while acting as a forwarding station 0: Off, 1: On

Bit 7: Not used

6800DC(H) - User parameter switch 12 (SWUSR_0C): Not used

6800DD(H) - User parameter switch 13 (SWUSR_0D): Not used

6800DE(H) - User parameter switch 14 (SWUSR_0E)

Bit 0: Message printout while the machine is in Night Printing mode 0: On, 1: Off

Bit 1: Maximum document length detection 0: Double letter, 1: Longer than double-letter (well log) – up

to 1,200 mm

Bit 2: Not used

Bit 3: Fax mode settings, such as resolution, before a mode key (Copy/Fax/Printer/Scanner), is pressed

0: Not cleared, 1: Cleared

Bits 4 to 6: Not used

Bit 7: Not used

6800DF(H) - User parameter switch 15 (SWUSR_0F)

(This switch is not printed on the user parameter list.)

Bits 0, 1 and 2: Cassette for fax printout

Bit 2: 0, Bit 1: 0, Bit 0: 1 = 1st paper feed station

Bit 2: 0, Bit 1: 1, Bit 0: 0 = 2nd paper feed station

Bit 2: 0, Bit 1: 1, Bit 0: 1 = 3rd paper feed station

Bit 2: 1, Bit 1: 0, Bit 0: 0 = 4th paper feed station

Bit 2: 1, Bit 1: 0, Bit 0: 1 = LCT

Other settings Not used

Bits 3 and 4: Not used

Bit 5: Using the cassette specified by bits 0, 1 and 2 above only 0: On, 1: Off

Bits 6 and 7: Not used

6800E0(H) - User parameter switch 16 (SWUSR_10)

(This switch is not printed on the user parameter list.)

Bits 0 and 1: Not used

Bit 2: Paper size selection priority for an A4 size fax message when A4/LT size paper is not available. 0:

A3 has priority, 1: B4 has priority

Bits 3 to 7: Not used

6800E1(H) - User parameter switch 17 (SWUSR_11)

Bit 0: Not used

Bit 1: Not used

Bit 2: Inclusion of the "Add" button when a sequence of Quick/Speed dials is selected for broadcasting

0: Not needed, 1: Needed

Bits 3 to 6: Not used

Bit 7: Press "Start" key without an original when using the on hook dial or the external telephone,

0: displays "Cannot detect original size". 1: Receives fax messages.

6800E2(H) - User parameter switch 18 (SWUSR_12)

Bit 0: TTI date 0: Off, 1: On

Bit 1: TTI sender 0: Off, 1: On

Bit 2: TTI file number 0: Off, 1: On

Bit 3: TTI page number 0: Off, 1: On

Bits 4 to 6: Not used

Bit 7: Japan only

6800E3(H) - User parameter switch 19 (SWUSR_13)

Bit 0: Not used

Bit 1: Journal format

0: The Journal is separated into transmissions and receptions

1: The Journal is separated into G3-1, G3-2, and G3-3 communications

Bit 2: Not used

Bit 3: 90° image rotation during B5 portrait TX (This switch is not printed on the user parameter list.) 0:

Off, 1: On

Bit 4: Reduction of sample images on reports to 50% in the main scan and sub-scan directions. (This switch is not printed on the user parameter list.) 0: Technician adjustment (printer switch 0E bits 3 and

4), 1: 50% reduction

Bit 5: Use of A5 size paper for reports (This switch is not printed on the user parameter list.) 0: Off, 1: On

Bits 6 and 7: Not used

6800E4(H) - User parameter switch 20 (SWUSR_14)

Bit 0: Automatic printing of the LAN fax result report 0: Off, 1: On

Bit 1: Not used.

Bits 2 to 5: Store documents in memory, which could not be printed from PC fax (LAN fax) driver

Bit 5	Bit 4	Bit 3	Bit 2	Setting
0	0	0	0	0 min.
0	0	0	1	1 min.
\	\	\	\	←
1	1	1	0	14 min.
1	1	1	1	15 min.

Bits 6 and 7: Not used.

6800E5(H) - User parameter switch 21 (SWUSR_15)

Bit 0: Print results of sending reception notice request message 0: Disabled (print only when an error occurs), 1: Enabled

Bit 1: Respond to e-mail reception acknowledgment request 0: Disabled, 1: Enabled

Bit 2: Not used

Bit 3: File format for forwarded folders 0: TIFF, 1: PDF

Bit 4: Transmit Journal by E-mail 0: Disabled, 1: Enabled

Bit 5: Not used

Bit 6: Network error display 0: Displayed, 1: Not displayed

Bit 7: Transmit error mail notification 0: Enabled, 1: Disabled

6800E6(H) - User parameter switch 22 (SWUSR_16)

(This switch is not printed on the user parameter list.)

Bit 0: Dial tone detection (PSTN 1) 0: Disabled, 1: Enabled

Bits 1 to 7: Not used

6800E7(H) - User parameter switch 23 (SWUSR_17): Not used

6800E8(H) - User parameter switch 24 (SWUSR_18): Not used

6800E9(H) - User parameter switch 25 (SWUSR_19)

Bit 0: Not used

Bit 1: Reception mode switch timer 0: Off, 1: On (switching Fax or Fax/Tel)

Bit 2: Mode priority switch 0: Fax first, 1: Tel first

Bit 3: Dial in function (Japan Only)

Bit 4: Do not Change this Bit.

Bits 5 to 7: Not used

6800EA(H) and 6800EB(H) - User parameter switches 26 and 27 (SWUSR_1A and 1B): Not used 6800EC(H) - User parameter switch 28(SWUSR_1C): Not used

6800ED(H) - User parameter switch 29(SWUSR_1D): Not used

6800EE(H) and 6800EF(H) - User parameter switches 30 and 31 (SWUSR_1E and 1F): Not used 6800F0(H) - User parameter switch 32 (SWUSR_20)

Bit 0: Quotation priority for a destination when there is no destination of the specified type

0: Paper output priority = Priority order: 1. IP-fax destination, 2. Fax Number, 3. E-mail address, 4. Folder

1: Electric putout order = Priority order: 1. E-mail address, 2. Folder, 3. IP-fax destination, 4. Fax number

Bits 1 to 7: Not used

6800F1(H) - User parameter switch 33 (SWUSR_21): Not used

6800F2(H) - User parameter switch 34 (SWUSR_22)

Bit 0: Gatekeeper server used with IP-Fax 0: Disabled, 1: Enabled

Bit 1: SIP server used with IP-Fax 0: Disabled, 1: Enabled

Bits 2 to 7: Not used

6800F3(H) - User parameter switch 35 (SWUSR_23)

Redial interval when sending a backup file

6800F4(H) - User parameter switch 36 (SWUSR_24)

Maximum number of redials when sending a backup file

6800F5(H) - User parameter switch 37 (SWUSR_25)

Bit 0: Whether to stop sending a backup file if the destination folder becomes full while the machine is sending or waiting to send a fax or the backup file. 0: No, • 1: Yes

Bit 2 and 3: Backup file is printed along with the TX communication failure report when a backup file transmission failure occurs. 00: Do not print, 01: Print first page only, 10: Print whole file

Bit 4: Display the sender's information in the file name of documents that are forwarded to folder destinations. 0: Disabled, 1: Enabled

Bit 5: Limit the file names of documents that are forwarded to folder destinations to plain characters only. 0: Disabled, 1: Enabled

Bit 6: When using the remote fax function, the sub-machine beeps to let you know when it has printed a received document (If you specify "On", the machine will beep according to the setting of [Panel Key Sound] under [System Settings].) 0: On, 1: Off

Bit 7: Not used

6800F6(H) - User parameter switch 38 (SWUSR_26)

Maximum number of transmissions the machine attempts before determining that a fax cannot be forwarded from a sender (including special senders) to a folder destination

6800F7(H) - User parameter switch 39 (SWUSR_27)

Interval (in minutes) between resend attempts after failing to forward a fax from a sender (including special senders) to a folder destination

6800F8(H) - User parameter switch 40 (SWUSR_28)

Bit 0: When memory space is insufficient, the machine prints and then deletes the oldest faxes, creating

```
memory space for storage of new faxes. 0: Disabled, 1: Enabled
```

Bit 1 to 7: Not used

6800FD(H) - User parameter switch 45 (SWUSR 2D)

Bit 0 and 1:

Bit 2: File format for files transmitted to e-mail addresses and folders registered as forwarding, destinations of backup file transmission, receivers for Personal Box, or end receivers for Transfer Box.

0: PDF 1: PDF/A

Bit 3:

Bit 4 to 7: Not used

680100 to 68010F(H) - G4 Parameter Switches - Not used

680110 to 68012F(H) - G4 Internal Switches - Not used

680130 to 68016F(H) - Service Switches

680170 to 68017F(H) - IFAX Switches

680180 to 68018F(H) - IP-FAX Switches

680190 to 6801A3(H) - PSTN-1 RTI (Max. 20 characters - ASCII) - See the following note.

6801A4 to 6801B7(H) - PSTN-2 RTI (Max. 20 characters - ASCII)

6801B8 to 6801CB(H) - PSTN-3 RTI (Max. 20 characters - ASCII)

6801CF to 68020E(H) - TTI 1 (Max. 64 characters - ASCII) - See the following note.

68020F to 68024E(H) - TTI 2

68024F to 68028E(H) - TTI 3

68028F to 6802CE(H) - TTI 4

6802CF to 68030E(H) - TTI 5

68030F to 68034E(H) - TTI 6

68034F to 68038E(H) - TTI 7

68038F to 6803CE(H) - TTI 8

6803CF to 68040E(H) - TTI 9

68040F to 68044E(H) - TTI 10



• If the number of characters is less than the maximum (20 for RTI, 32 for TTI), add a stop code (00[H]) after the last character.

68044F(H)

Printing format for TTI 1

0: DOM (Japan), 1:EXP (Export)

680450(H)

Printing format for TTI 2

0: DOM, 1: EXP

680451(H)

Printing format for TTI 3

0: DOM, 1:EXP

680452(H)

Printing format for TTI 4

0: DOM, 1:EXP

680453(H)

Printing format for TTI 5

0: DOM, 1:EXP

680454(H)

Printing format for TTI 6

0: DOM, 1:EXP

680455(H)

Printing format for TTI 7

0: DOM, 1:EXP

680456(H)

Printing format for TTI 8

0: DOM, 1:EXP

680457(H)

Printing format for TTI 9

0: DOM, 1:EXP

680458(H)

Printing format for TTI 10

0: DOM, 1: EXP

680459 to 68046C(H) - PSTN-1 CSI (Max. 20 characters - ASCII)

68046D to 680480(H) - PSTN-2 CSI (Max.20 characters - ASCII)

680481 to 680494(H) - PSTN-3 CSI (Max.20 characters - ASCII)

680495(H) - Number of PSTN-1 CSI characters (Hex)

680496(H) - Number of PSTN-2 CSI characters (Hex)

680497(H) - Number of PSTN-3 CSI characters (Hex)

6804C6(H) - Memory Lock ID (BCD)

6804D2 to 6804D9(H) - Last power off time (Read only)

6804D2(H) - 01(H) - 24-hour clock, 00(H) - 12-hour clock (AM), 02(H) - 12-hour clock (PM)

6804D3(H) - Year (BCD)

6804D4(H) - Month (BCD)

6804D5(H) - Day (BCD)

6804D6 (H) - Hour

6804D7 (H) – Minute

6804D8(H) - Second

6804D8 (H) - 00: Monday, 01: Tuesday, 02: Wednesday, ///, 06: Sunday

6804E6(H) - Optional equipment (Read only – Do not change the settings)

Bit 0: Page Memory 0: Not installed, 1: Installed

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Bit 1: SAF Memory (4M) 0: Not installed, 1: Installed
Bit 2: SAF Memory 0: Not installed, 1: Installed
Bits 3 to 7; Not used
6804E7(H) - Optional equipment (Read only – Do not change the settings)
Bits 0 to 3: Not used
Bit 4: G3-2 0: Not installed, 1: Installed
Bit 5: G3-3 0: Not installed, 1: Installed
Bit 6 and 7: Not used
6804EE(H) - Machine code (Check ram 3)
680500(H) - Start address of G3 table for G3-1
680600(H) - Start address of G3 table for G3-2
680700(H) - Start address of G3 table for G3-3
680800 to 68081F(H) - Service station's fax number (SP3-101)
680820 to 680829(H) - Own fax PABX extension number - Not used
68082A to 680833(H) - Own fax number (PSTN) - Not used
680834 to 680847(H) - Own fax number (ISDN G4) - Not used
680848 to 680853(H) - The first subscriber number (ISDN G3) - Not used
680854 to 68085F(H) - The second subscriber number (ISDN G3) - Not used
680860 to 68086B(H) - The first subscriber number (ISDN G4) - Not used
68086C to 680877(H) - The second subscriber number (ISDN G4) - Not used
6808A0 to 6808B7(H) - G4TID registered information (Max.24 characters - ASCII)
6808B8 to 6808CB(H) - ISDN CSI (Max.20 characters - ASCII)
6808CC(H) - Number of ISDN CSI characters (Hex)
6808D1 to 6808D4(H) - ISDN G3 sub address registered information
6808D5 to 6808D8(H) - G4 sub address registered information
6808DE to 6808E2 – Option G3 board (G3-2) ROM information (Read only)
6808DE(H) - Suffix (BCD)
6808DF(H) - Version (BCD)
6808E0(H) - Year (BCD)
6808E1(H) - Month (BCD)
6808E2(H) - Day (BCD)
6808E3 to 6808E7 – Option G3 board (G3-3) ROM information (Read only)
6808E3(H) - Suffix (BCD)
6808E4(H) - Version (BCD)
6808E5(H) - Year (BCD)
6808E6(H) - Month (BCD)
6808E7(H) - Day (BCD)
6808E8(H) - G3-1 Modem ROM version (Read only)
6808EA(H) - G3-2 Modem ROM version (Read only)
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6808EC(H) - G3-3 Modem ROM version (Read only)
6808F8(H) - Number of multiple sets print (Read only)
68094E(H) - Time for economy transmission (Not used)
68094F(H) - Time for economy transmission (Not used)
68096A(H) - Transmission monitor volume 00 - 07(H)
68096B(H) - Reception monitor volume 00 - 07(H)
68096C(H) - On-hook monitor volume 00 - 07(H)
68096D(H) - Dialing monitor volume 00 - 07(H)
68096E(H) - Buzzer volume 00 - 07(H)
68096F(H) - Beeper volume 00 - 07(H)
680980(H) - Machine code (Check ram 4)
680982(H) - Machine serial number (ASCII)
687178 to 68717B(H) - Transmission counter (Max.24 characters - ASCII)
68717C to 68717F(H) - Reception counter (Max.24 characters - ASCII)
6871E8 to 6871EB(H) - Mail transmission counter (Max.24 characters - ASCII)
6871EC to 6871EF(H) - Mai reception counter (Max.24 characters - ASCII)
6A6DEE(H) to 6A70ED(H) - SIP server address (Read only)
6A6DEE(H) - Proxy server - Main (Max. 128 characters - ASCII)
6A6E6E(H) - Proxy server - Sub (Max. 128 characters - ASCII)
6A6EEE(H) - Redirect server - Main (Max. 128 characters - ASCII)
6A6F6E(H) - Redirect server - Sub (Max. 128 characters - ASCII)
6A6FEE(H) - Registrar server - Main (Max. 128 characters - ASCII)
6A706E(H) - Registrar server - Sub (Max. 128 characters - ASCII)
6A70EE(H) - Gatekeeper server address - Main (Max. 128 characters - ASCII)
6A716E(H) - Gatekeeper server address - Sub (Max. 128 characters - ASCII)
6A71EE(H) - Alias Number (Max. 128 characters - ASCII)
6A726E(H) - SIP user name (Max. 128 characters - ASCII)
6A72EE(H) - SIP digest authentication password (Max. 128 characters - ASCII)
6A736E(H) - Gateway address information (Max. 7100 characters - ASCII)
6A8F2A(H) - NGN initial setting method 0: Simple, 1: Manual
6A8F2B(H) - SIP digest authentication user name (Max. 128 characters - ASCII)
6A8FAB(H) - NGN-SIP domain name (Max. 64 characters - ASCII)
6A8FEB(H) - NGN-home gateway address (Max. 128 characters - ASCII)
6A906C(H) - Stand-by port number for H.323 connection
6A906E(H) - Stand-by port number for SIP connection
6A9070(H) - RAS port number
6A9072(H) - Gatekeeper port number
6A9074(H) - Port number of data waiting for T.38
6A9076(H) - Port number of SIP server
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6A9078(H) - Priority for SIP and H.323 0: H.323, 1: SIP

6A9079(H) - SIP function 0: Disabled, 1: Enabled

6A907A(H) - H.323 function 0: Disabled, 1: Enabled

6A907B(H) - SIP digest authentication function 0: Disabled, 1: Enabled

6B3AE4(H) - 6B3B04 (H) - Dial tone detection parameter (Max. 11 x 3 lines)

This initializes following order. [0x04, 0x40, 0x03, 0x60, 0x64, 0xf4, 0x01,0x64, 0x04, 0xc8, 0x00]

6B3AE4(H) – Dial tone detection frequency – Upper limit (High)

Defaults: NA: 06, EU: 06, ASIA: 06

6B3AE5(H) – Dial tone detection frequency – Upper Limit (Low)

Defaults: NA: 50, EU: 50, ASIA: 50

6B3AE6(H) – Dial tone detection frequency – Lower Limit (High)

Defaults: NA: 03, EU: 02, ASIA: 02

6B3AE7(H) – Dial tone detection frequency – Lower Limit (Low)

Defaults: NA: 60, EU: 90, ASIA: 90

6B3AE8(H) –Dial tone detection waiting time (20 ms)

Defaults: NA: 64, EU 64, ASIA: 64

6B3AE9 to 6B3AEA – Dial tone detection monitoring time (20 ms)

Defaults

Area	6B35A9	6B35AA
NA	F4	01
EU	F4	01
ASIA	F4	01

6B3AEB(H) – Dial tone detect judge time (20 ms)

Defaults: NA: 64, EU: 1B, ASIA: 32

6B3AEC(H) – Dial tone disconnect permission time (20 ms)

Defaults: NA: 11, EU: 0F, ASIA: 11

Dedicated Transmission Parameters

There are two sets of transmission parameters: Fax and E-mail

Each Quick Dial Key and Speed Dial Code has eight bytes of programmable parameters allocated to it. If transmissions to a particular machine often experience problems, store that terminal's fax number as a Quick Dial or Speed Dial, and adjust the parameters allocated to that number.

The programming procedure will be explained first. Then, the eight bytes will be described.

Programming Procedure

- 1. Set the bit 0 of System Bit Switch 00 to 1.
- Enter Address Book Management mode ([User Tools] > [Machine Features] > [System Settings] > [Key Operator] > [Address Book Management]).
- 3. Select the address book that you want to program.
- **4.** For the fax parameter, select "Fax Dest.", for the E-mail parameter, select "E-mail", then press "Start". Make sure that the LED of the Start button lights green.
- <u>5.</u> The settings for the switch 00 are now displayed. Press the bit number that you wish to change.
- **<u>6.</u>** To scroll through the parameter switches, either:
- <u>7.</u> Select the next switch: press "Next" or Select the previous switch: "Prev." until the correct switch is displayed. Then go back to step 6.
- 8. After the setting is changed, press "OK".
- **9.** After finishing, reset bit 0 of System Bit Switch 00 to 0.

Parameters

Fax Parameters

The initial settings of the following fax parameters are all FF(H) - all the parameters are disabled.

Switch 00

FUNCTION AND COMMENTS

ITU-T T1 time (for PSTN G3 mode)

If the connection time to a particular terminal is longer than the NCU parameter setting, adjust this byte. The T1 time is the value stored in this byte (in hex code), multiplied by 1 second.

Range:

0 to 120 s (00h to 78h)

FFh - The local NCU parameter factory setting is used.

Do not program a value between 79h and FEh.

Swi	Switch 01				
No	FUNCTION	COMMENTS			
0-	Tx level	If communication with a particular remote terminal			

4	Bit4	Bit3	Bit2	Bit1	Bit0	
	0	0	0	0	0	0
	0	0	0	0	1	-1
	0	0	0	1	0	-2
	0	0	0	1	1	-3
	0	0	1	0	0	-4
	→	→	→	→	→	\
	0	1	1	1	1	–15
	1	1	1	1	1	Disabled
5-	Cable equalizer					

often contains errors, the signal level may be inappropriate. Adjust the Tx level for communications with that terminal until the results are better.

If the setting is "Disabled", the NCU parameter 01

U Note

setting is used.

 Do not use settings other than listed on the left.

Bit 7: 0, Bit 6: 0, Bit 5: 0 = None

Bit 7: 0, Bit 6: 0, Bit 5: 1 = Low

Bit 7: 0, Bit 6: 1, Bit 5: 0 = Medium

Bit 7: 0, Bit 6: 1, Bit 5: 1 = High

Bit 7: 1, Bit 6: 1, Bit 5: 1 = Disabled

Use a higher setting if there is a signal loss at higher frequencies because of the length of wire between the modem and the telephone exchange when calling the number stored in this Quick/Speed Dial.

Also, try using the cable equalizer if one or more of the following symptoms occur.

Communication error with error codes such as 0-20, 0-23, etc.

Modem rate fallback occurs frequently.



Do not use settings other than listed on the left

If the setting is "Disabled", the bit switch setting is used.

Swi	Switch 02					
No	FUN	CTION				COMMENTS
0-	Initial Tx modem rate			rate		If training with a particular remote terminal always takes too
3	Bit3	Bit2	Bit1	Bit0	bps	long, the initial modem rate may be too high. Reduce the
	0	0	0	0	Not	initial Tx modem rate using these bits.
					used	For the settings 14.4 or kbps slower, Switch 04 bit 4 must
	0	0	0	1	2400	be changed to 0.
	0	0	1	0	4800	◆ Note
	0	0	1	1	7200	Do not use settings other than listed on the left. If
	0	1	0	0	9600	the setting is "Disabled", the bit switch setting is
	0	1	0	1	12000	used.
	0	1	1	0	14400	
	0	1	1	1	16800	
	1	0	0	0	19200	

	1	0	0	1	21600	
	1	0	1	0	24000	
	1	0	1	1	26400	
	1	1	0	0	28800	
	1	1	0	1	31200	
	1	1	1	0	33600	
	1	1	1	1	Disabled	
4-	4- Not used					Do not change the settings.
7						

Swi	Switch 03				
No	FUNCTION	COMMENTS			
0-	Inch-mm conversion	If "inch only" is selected on the machine uses inch-based resolutions			
1	before tx	for scanning, the printed copy may be slightly distorted at the other			
	Bit 1: 0, Bit 0: 0	end if that machine uses mm-based resolutions.			
	= Inch-mm conversion	If the setting is "Inch-mm conversion available ", Inch-mm conversion			
	available	becomes effective to the special senders.			
	Bit 1: 0, Bit 0: 1 = Inch	If the setting is "Disabled", the bit switch setting is used.			
	only				
	Bit 1: 1, Bit 0: 0 = Not				
	used				
	Bit 1: 1, Bit 0: 1 =				
	Disabled				
2-	DIS/NSF detection	(0, 1): Use this setting if echoes on the line are interfering with the set-			
3	method	up protocol at the start of transmission. The machine will then wait for			
	Bit 3: 0, Bit 2: 0	the second DIS or NSF before sending DCS or NSS.			
	= First DIS or NSF	If the setting is "Disabled", the bit switch setting is used.			
	Bit 3: 0, Bit 2: 1				
	= Second DIS or NSF				
	Bit 3: 1, Bit 2: 0 = Not				
	used				
	Bit 3: 1, Bit 2: 1 =				
	Disabled				
4	V.8 protocol	If transmissions to a specific destination always end at a lower modem			
	0: Off	rate (14,400 bps or lower), disable the V.8 protocol so as not to use			
	1: Disabled	V.34 protocol.			
		0: V.34 communication will not be possible.			

		If the setting is "Disabled", the bit switch setting is used.		
5	Compression modes	This bit determines the capabilities that are informed to the other		
	available in transmit	terminal during transmission.		
	mode	If the setting is "Disabled", the bit switch setting is used.		
	0: MH only			
	1: Disabled			
6-	ECM during	For example, if ECM is switched on but is not wanted when sending to		
7	transmission	a particular terminal, use the (0, 0) setting.		
	Bit 7: 0, Bit 6: 0 = Off	Note		
	Bit 7: 0, Bit 6: 1 = On	V.8/V.34 protocols and JBIG compression are automatically		
	Bit 7: 1, Bit 6: 0 = Not	disabled if ECM is disabled.		
	used	If the setting is "Disabled", the bit switch setting is used.		
	Bit 7: 1, Bit 6: 1 =			
	Disabled			

Switch 04 - Not used (do not change the settings)
Switch 05 - Not used (do not change the settings)
Switch 06 - Not used (do not change the settings)
Switch 07 - Not used (do not change the settings)
Switch 08 - Not used (do not change the settings)
Switch 09 - Not used (do not change the settings)

E-mail Parameters

The initial settings of the following e-mail parameters are all "0" (all parameters disabled).

Swi	tch 00	
No	FUNCTION	COMMENTS
0	MH Compression mode for e-mail	Switches MH compression on and off for files attached
	attachments	to e-mails for sending.
	0 : Off	
	1: On	
1	MR Compression mode for e-mail	Switches MR compression on and off for files attached
	attachments	to e-mails for sending.
	0 : Off	
	1: On	
2	MMR Compression mode for e-mail	Switches MMR compression on and off for files attached
	attachments	to e-mails for sending.
	0 : Off	
	1: On	
3-	Not used	Do not change these settings.

6		
7	Designates the bits to reference for	The "0" selection (default) references the settings for
	compression method of e-mail	Bits 00, 01, 02 above. The "1" selection ignores the
	attachments	selections of Bits 00, 01, 02.
	0: Registered (Bit 0 to 6)	
	1: No registration.	

Swi	tch 01	
No	FUNCTION	COMMENTS
0	Original width of e-mail	Sets the original width of the e-mail attachment as A4.
	attachment: A4	
	0 : Off	
	1: On	
1	Original width of e-mail	Sets the original width of the e-mail attachment as B4.
	attachment: B4	
	0 : Off	
	1: On	
2	Original width of e-mail	Sets the original width of the e-mail attachment as A3.
	attachment: A3	
	0 : Off	
	1: On	
3-	Not used	Do not change these settings.
6		
7	Designates the bits to reference	The "0" selection (default) references the settings for Bits
	for original size of e-mail	00, 01, 02 above. The "1" selection ignores the selections
	attachments	of Bits 00, 01, 02.
	0: Registered (Bit 0 to 6)	
	1: No registration.	

Switch 02			
No	FUNCTION	COMMENTS	
0	Line resolution of e-mail	Sets the line resolution of the e-mail attachment as 200	
	attachment: 200 x 100	x100.	
	0 : Off		
	1: On		
1	Line resolution of e-mail	Sets the line resolution of the e-mail attachment as 200 x	
	attachment: 200 x 200	200.	
	0 : Off		

	1: On	
	1. 011	
2	Line resolution of e-mail	Sets the line resolution of the e-mail attachment as 200 x
	attachment: 200 x 400	400.
	0 : Off	
	1: On	
3	Not used	Do not change these settings.
4	Line resolution of e-mail	Sets the line resolution of the e-mail attachment as 400 x
	attachment: 400 x 400	400.
	0 : Off	
	1: On	
5-	Not used	Do not change these settings.
6		
7	Designates the bits to reference	The "0" selection (default) references the settings for Bits
	for original size of e-mail	00, 01, 02, 04 above. The "1" selection ignores the
	attachments	selections of Bits 00, 01, 02, 04.
	0: Registered (Bit 0 to 6)	
	1: No registration.	

Switch 03 - Not used (do not change the settings)

Switch 04			
No	FUNCTION	COMMENTS	
0	Full mode address	If the other ends have the addresses, which have the full mode function	
	selection	flag ("0"), this machine determines them as full mode standard machines.	
	0: Full mode	This machine attaches the "demand for reception confirmation" to a	
	address	message when transmitting.	
	1: No full mode	This machine updates the reception capability to the address book	
	(simple mode)	when receiving.	
1-	Not used	Do not change these settings.	
7			

Switch 05		
No	FUNCTION	COMMENTS
0	Direct transmission selection to an SMTP	Allows or rejects the direct transmission to the
	server	SMTP server.
	0: ON	
	1: OFF	
1-	Not used	Do not change these settings.

7				
Swi	tch 06 - Not used (do not change the setting	gs)		
Swi	Switch 07 - Not used (do not change the settings)			
Switch 08 - Not used (do not change the settings)				
Swi	Switch 09 - Not used (do not change the settings)			

5. Specifications

General Specifications

FCU

Standard:	Group 3	
Resolution:	8 x 3.85 lines/mm, 200 x 100 dpi (Standard character)	
	8 x 7.7 lines/mm, 200 x 200 dpi (Detail character)	
Transmissi 3 seconds at 28,800 bps, Standard resolution (JBIG transmission: 2 seconds)		
on Time:		
Data MH, MR, MMR, JBIG		
Compressio		
n:		
Maximum	Standard: A4 (SEF) or 8.5" x 14" (SEF)	
Original	Custom: 216 mm x 600 mm (8.5" x 23.6")	
Size:		
Maximum	laximum 216 mm x 600 mm (8.5" x 23.6")	
Scanning		
Size:		
Print	LED alley and electro-photographic printing	
Process:		
Transmissi	33,600/31,200/28,800/26,400/24,000/21,600/19,200/16,800/14,400/12,000/9,600/7,2	
on speed:	00/4,800/2,400 bps (Auto shift down system)	
Memory	4MB	
Capacity:		

Capabilities of Programmable Items

The following table shows the capabilities of each programmable items.

Item	Standard
Quick Dial	2000
Groups	100
Destination per Group	500
Programs	100
Communication records for Journal stored in the memory	200
Specific Senders	250
Memory Transmission file	800
Memory capacity for memory transmission (Note)	320

5.Specifications



 Measured using an ITU-T #1 test document (Slerexe letter) at the standard resolution, the auto image density mode, and the Text mode.

IFAX Specifications

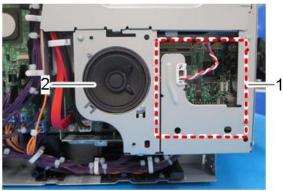
Network:	Standard: Ethernet interface (1000 Base-T/100 Base-TX/10 Base-T)		
	Optional: IEEE802.11a/b/g/n (Wireless LAN interface)		
Transmit function:	E-mail		
Scan line density:	200 × 100 dpi (Standard character)		
	200 × 200 dpi (Detail character)		
Original Size (Scanning A4			
width):			
Communication	Transmission: SMTP, TCP/IP		
Protocol:	Reception: POP3, SMTP, IMAP4, TCP/IP		
E-mail Format:	Single/Multi-part, MIME Conversion		
	Attached file forms: TIFF-F (MH, MR*1, MMR*1 compression)		
Authentication method: SMTP-AUTH, POP before SMTP, A-POP			
Internet communication:	Send and receive an e-mail with a computer that has an e-mail address		
Encryption method:	S/MIME		
Internet Fax send	Automatic conversion of sent documents to e-mail format and e-mail		
functions:	transmission. Memory transmission only.		
Internet Fax receive	Automatic detection and printing of appended TIFF-F (MH) files and		
functions:	ASCII text. Memory reception only.		

^{*1 :}Full mode

IP-FAX Specifications

Standard: Ethernet interface (1000 Base-T/100 Base-TX/10 Base-T)	
Optional: IEEE802.11a/b/g/n wireless LAN interface	
8 x 3.85 lines/mm, 200 x 100 dpi (Standard character)	
8 x 7.7 lines/mm, 200 x 200 dpi (Detail character)	
: Standard: A4 (SEF) or 8.5" x 14" (SEF)	
Custom: 216 mm x 600 mm (8.5" x 23.6")	
216 mm x 600 mm (8.5" x 23.6")	
Recommended: T.38, TCP, UDP/IP communication, SIP (RFC 3261	
compliant), H.323 v2	
IP-Fax compatible machines	
Specify an IP address and send faxes to an IP-Fax compatible fax	
through a network.	
Also capable of sending faxes to a G3 fax connected to a telephone line	
via a VoIP gateway.	
Receive faxes sent from an IP-Fax compatible fax through a network.	
Also capable of receiving faxes from a G3 fax connected to a telephone	
line via a VoIP gateway.	

Fax Unit Configuration



d0apc8008

No.	Component	Code	Remarks
1	FCU board	-	Included with the fax unit
2	Speaker	-	
-	Handset HS1010	M444-38	Fax unit option
			Only for NA
-	Fax Connection Unit Type M34	D3EM-03	SD card option
			This is used to set up the remote fax function.