# FAX Option Type M28 Machine Code: D3E7 Field Service Manual Ver 1.0

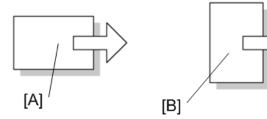
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# Symbols and Abbreviations

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

Symbol	What it means
W	Clip ring
SF .	Screw
St.	Connector
\$	Clamp
\$	E-ring
<b>\$</b>	Flat Flexible Cable
$\bigcirc$	Timing Belt
SEF	Short Edge Feed
LEF	Long Edge Feed
Κ	Black
С	Cyan
М	Magenta
Y	Yellow
B/W, BW	Black and White
FC	Full color

c2790086



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

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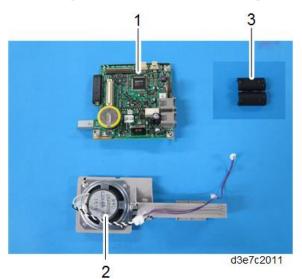
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## Fax Option Type M28 (D3E7-02, -03)

This option is not available for North America, because fax is built in.

#### Accessory Check

Check the quantity and condition of the components against the following list.



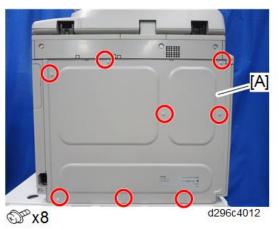
No.	Description	Q'ty
1	FCU	1
2	Speaker Bracket	1
3	Ferrite Core	1
-	EMC Address Decal (EU only)	1
-	Serial Number Decal	1

#### Installation Procedure

## 

- Before doing this procedure, print out all data in the printer buffer.
- Push the operation switch to put the machine in standby mode. Make sure the power LED is off, turn the main switch off, and then disconnect the power cord and the network cable.
- The mainframe equipped with the fax unit must be connected to a properly grounded socket outlet.

**<u>1.</u>** Remove the rear cover [A].

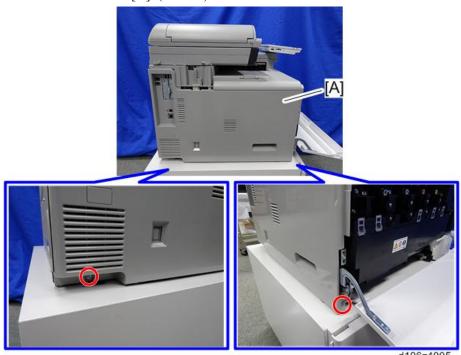


**<u>2.</u>** Remove the left upper cover [A]. ( $\Im$  x 1)



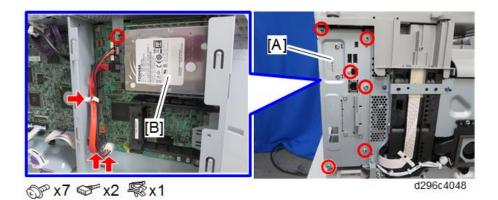
d196z4004

- **<u>3.</u>** Remove the paper feed tray, and then open the front cover.
- **<u>4.</u>** Remove the left cover [A]. ( $\Im$  x 2)

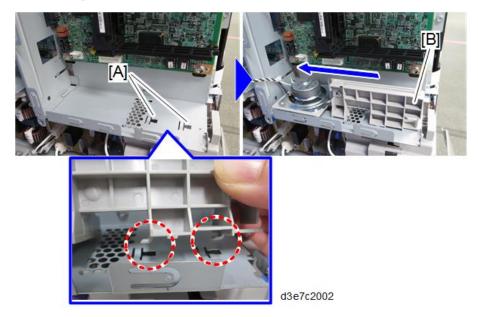


5. Remove the controller cover [A] with the HDD [B].

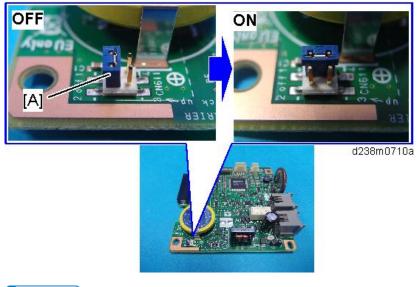
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**<u>6.</u>** Attach the speaker bracket [B] while sliding the tabs into the cutouts [A] in the controller box. (hook x 2)



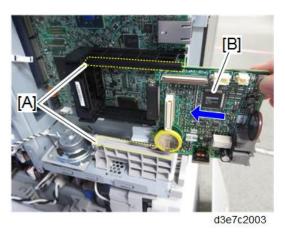
<u>7.</u> Switch the FCU battery jumper switch [A] to the "ON" position.



Vote

If the battery jumper switch is not at the correct position, registering the fax unit will fail.

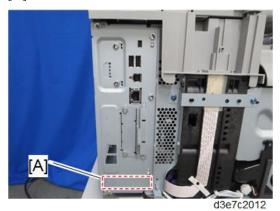
**<u>8.</u>** Slide the FCU [B] into the slot along the guide rails [A].



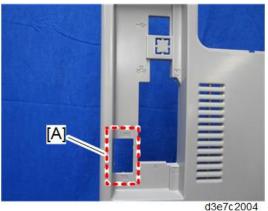
**<u>9.</u>** Connect the harness to the FCU [A].



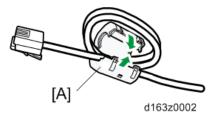
- **<u>10.</u>** Attach the controller cover with the HDD.
- **<u>11.</u>** Connect two cables of the HDD to the controller board.
- **12.** Write the serial number of the fax unit on the serial number decal, and then attach it to the bottom position [A] of the controller cover.



**13.** Open the line and telephone connector covers [A] with a flat-head screw driver.



- **<u>14.</u>** Reassemble the machine.
- **15.** Make two loops with the telephone cord, and then attach the ferrite core [A].



- **16.** Connect the end of the telephone cord with the ferrite core to the "LINE" jack.
- **<u>17.</u>** Attach the EMC Address Decal at [A] on the rear cover (EU only).



**<u>18.</u>** Plug in the machine and turn the main power ON.

Comportant )

- After you turn the machine on, if you see a message that tells you that the SRAM has been formatted due to a problem with SRAM, turn the machine off and on again to clear the message.
- **<u>19.</u>** Enter the "User Tools" mode and set date and time.
- 20. Do SP3-102-000 in the fax SP mode and enter the serial number for the fax unit.

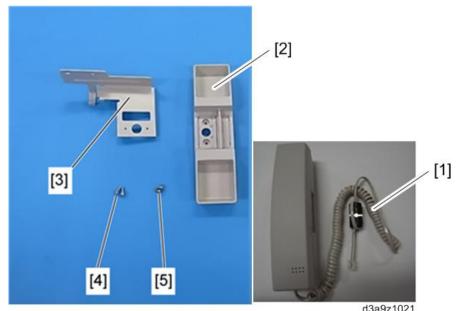
- **<u>21.</u>** Enter the correct country code with SP2-103-001 (NCU Country/ Area Code Setting).
- **<u>22.</u>** Exit the SP mode, and cycle the main power off and on.

## **Fax Unit Options**

## Handset Type C5502 (D645-27) (only for NA)

### Accessory Check

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
1	Handset with ferrite core and band	1
2	Cradle	1
3	Bracket	1
4	Tapping screw	2
5	Flat head screw	2

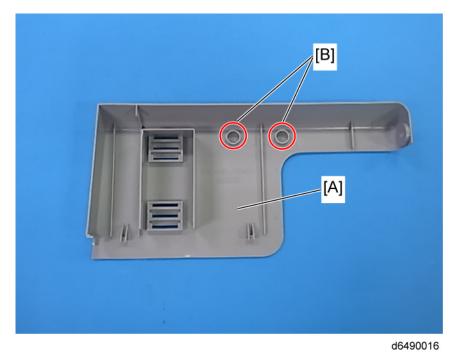
#### Installation Procedure

**<u>1.</u>** Remove the upper left cover [A]. ( $\mathfrak{O}^{\mathfrak{P}} \times 1$ )



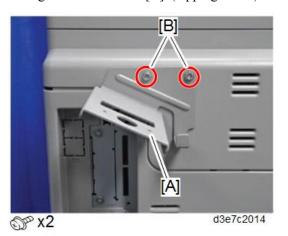
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**<u>2.</u>** Cut out the parts [B] from the upper left cover [A] and make two screw holes to attach the bracket.

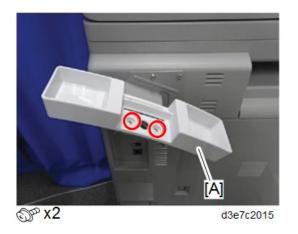


**<u>3.</u>** Attach the upper left cover to the mainframe. ( $\Im^{p} \times 1$ )

**<u>4.</u>** Attach the handset bracket [A] to the upper left cover by securing two screws to the frame of the machine through the screw holes [B]. (tapping screw)



5. Attach the cradle [A] to the bracket. (flat head screw)



**<u>6.</u>** Connect the handset cable connector to the "TEL" connector of the mainframe.

#### Fax Connection Unit Type M28 (D3E7-00)

#### Installation Procedure

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:

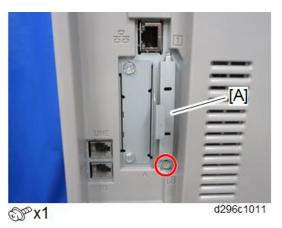
- 1. Install the Fax Connection Unit in the Remote Machine (fax unit installed).
- 2. Install the Fax Connection Unit in the Client-side Machine (no fax unit installed).
- 3. Register the Client-side Machine in the Remote Machine.

### Comportant )

- 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

**<u>1.</u>** Remove the SD card slot cover [A] from the SD card slots.



- 2. Insert the SD card (Fax Connection Unit Type M28) 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.
- **<u>3.</u>** Plug in, and then turn ON the main power.
- **<u>4.</u>** 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.

Firmware Version		
Current versions an	e displayed bel	ow.
Module Name	Version	Part Number
PS3 Font	1.11	D6415763A
Java VM v12 std	12,00,18	D2025567
animation	12.00	D2025562
aics	00,01,00	D3A75759
Data Erase Onb	1.00	D2025556
		d197z21

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

- **<u>1.</u>** Insert the SD card (Fax Connection Unit Type M28) 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.
- **<u>2.</u>** Plug in, and then turn ON the main power.
- **<u>3.</u>** 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.
- **<u>4.</u>** 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).
- **<u>6.</u>** Attach the SD card slot cover, and then turn on the machine ( $\Im^{p} \times 1$ ).
- **<u>7.</u>** Turn ON the main power.
- **<u>8.</u>** Press [Firmware Version] in the [Administrator Tools].

[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools]

**<u>9.</u>** Check whether the aics version is displayed.

Firmware Version		
Current versions are	e displayed bel	ow.
Module Name	Version	Part Number
PS3 Font	1.11	D6415763A
Java VM v12 std	12,00,18	D2025567
animation	12.00	D2025562
aics	00,01,00	D3A75759
Data Erase Onb	1.00	D2025556
		d197z21

#### Registering the Client Machine(s)

#### Content (1997)

• 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.

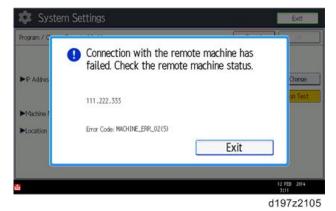
#### **On the Remote Machine:**

- **<u>1.</u>** 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 host name of one of the Client-side Machines.

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

💷 System Setting	S		Exit
rogram / Change Remote Mach	ine	Cancel	0
►IP Address / Host Name	111, 222, 333	-	Change
		0	mection Test
Machine Name			
Location			l.
E.			12 FEB 2014 3:10
		(	1197z21

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.



5. Press [OK] after "Connection Test" has been successfully done.

Program / Change Remote Mach	ine	Cancel	OK
▶IP Address / Host Name	135, 139, 166, 40		Change
	-	Ca	nnection Test
Machine Name	RICOH MP 5004 JPN		
►Location			
			2014/ 2/12 17:86
		d	197z210

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

Registering the Remote Machine

Comportant )

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

Vote

• Only one machine can be registered as the Remote Machine.

#### On the Client-side Machine(s):

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

```
Note
```

• Only one machine can be registered as the Remote Machine.

🕸 System Setti	ngs		Exit
Program / Change / Delete P	lemote Machine		Exit
Select a remote machine to	program or change.		
Program / Change	Delete		
1 X Not Programmed	Ī	1	]
2 X Not Programmed			1
5 🕷 Not Programmed	I.		]
4 🗰 Not Programmed			
5 🗰 Not Programmed			
6 🗰 Not Programmed			
			12 FEB 2814 3:09
			d197z210

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

s		Exit
ine	Cancel	0.
111, 222, 333		Change
	C	ionnection Test
		12 FEB 2014 3:10
	IS ine 111.222,353	ine Cancel



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.

Connection with the remote machine has failed. Check the remote machine status.
111,222,335
Error Code: MACHINE_ERR_02(5)

d197z2105

6. Press [OK] after "Connection Test" has been successfully done.

System Setting Program / Change Remote Mach		Cancel	Exit OK
▶IP Address / Host Name	133, 139, 166, 40		Change
	_	Co	nnection Test
Machine Name	RICOH MP 5004 JPN		
►Location			
			2014/ 2/12 17:06
		d	197z210

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.

#### • Note

• 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"

- **<u>1.</u>** Press [Facsimile Features].
- 2. Press [Remote Reception Setting per Line] in [Reception Settings].
- 3. Enter an IP address or a host name 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"

- **<u>1.</u>** Press [Facsimile Features].
- 2. Press [Program Special Sender] in [Reception Settings].

#### **<u>3.</u>** Select the Special Sender.

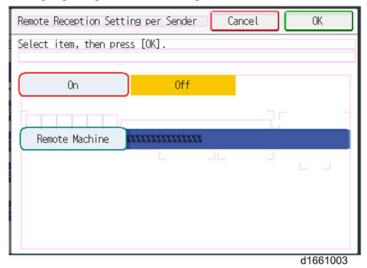
Program Special Sender		r		Exit
Select destination to prog	ram or change.			
Program / Change	Delete		Initia	l Set Up
001 Tokyo branch	Full Agree	002 Head office of Osaka	Full Agree	
003 branch	Part.Agree	004 XNot Programmed	Full Agree	
005 XNot Programmed	Full Agree	006 XNot Programmed	Part.Agree	1 (2
007 XNot Programmed	Full Agree	008 XNot Programmed	Full Agree	1∕2 ▲ Previous
009 XNot Programmed	Full Agree	010 ×Not Programmed	Full Agree	▼ Next

d1661001

4. Press [Remote Reception Setting per Sender].

Program / Change	Cancel	OK	
Check contents, then press [OK].			
Own Name and Fax Number	Conditions: F	Full Agreement	Partial Agreement
Authorized Reception per Sender Off	Print 2 Sided per	<sup>r</sup> Sender Same a	s Basic Settings
RX File Print Qty per Sender Same as Basic Settings	Memory Lock RX pe	r Sender Same a	s Basic Settings
Forwarding per Sender Same as Basic Settings	Paper Tray per 3	Sender Same a	s Basic Settings
Remote Reception Setting per Sender On			
Remote Machine:     XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	*****	1	
			d1661002

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



- **<u>6.</u>** Enter an IP address or a host name of the client-side machine to connect.
- 7. Press [OK] to exit from the setting.

# 2. Replacement and Adjustment

# FCU

When you replace the FCU board, transfer the SRAM data from the old FCU board to the new FCU board. Do the following procedure to back up the SRAM data.

#### Vote

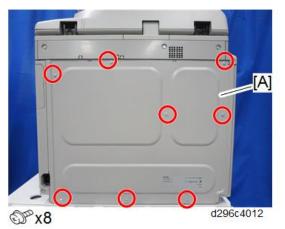
The following data can be transferred: TTI, RTI, CSI, Fax bit switch settings, RAM address settings, NCU parameter settings.

### SRAM Data Transfer Procedure

## 

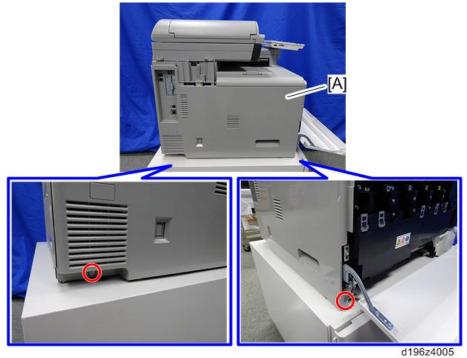
Unplug the power cord before starting the following procedure.

**<u>1.</u>** Remove the rear cover [A].

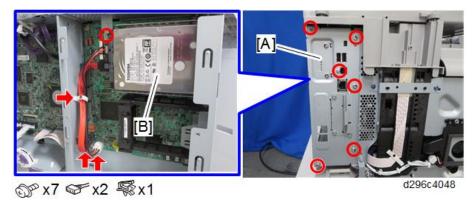


**<u>2.</u>** Remove the paper feed tray, and then open the front cover.

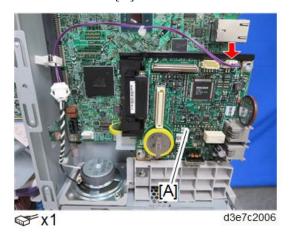
**<u>3.</u>** Remove the left cover [A]. ( $\mathfrak{O}^{\mathfrak{P}} \times 2$ )



**<u>4.</u>** Remove the controller cover [A] with the HDD [B].

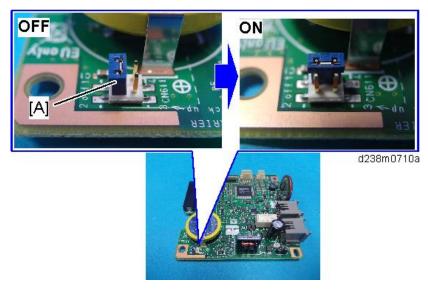


**<u>5.</u>** Remove the FCU [A].



**<u>6.</u>** Switch the battery jumper switch [A] of the new FCU to the "ON" position before installing.

#### 2.Replacement and Adjustment



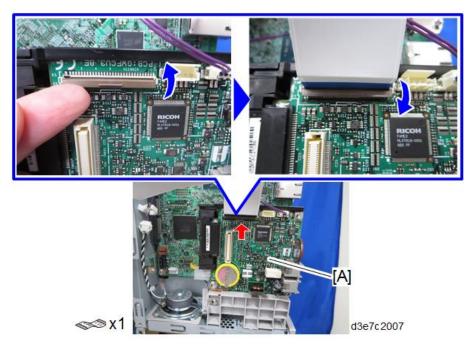
#### Note

If the battery jumper switch is not at the correct position, registering the fax unit will fail.

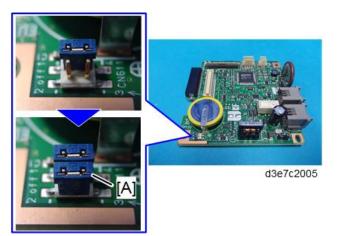
**<u>7.</u>** Attach the new FCU board [A].



- **<u>8.</u>** Connect one end of the FFC to CN603 of the new fax unit [A].
  - This FFC is provided with the new FCU board.
  - When inserting the FFC, lift the lever to release the lock and then push the lever to lock.
  - Make sure that the blue tapes of the FFC face down and it is not slanted.



**<u>9.</u>** Attach the battery jumper switch [A] on the removed FCU board to switch to the Restore mode. This jumper switch is provided with the new FCU board.



- **10.** Connect the other end of the FFC to CN603 of the removed FCU board.
  - When inserting the FFC, lift the lever to release the lock and then push the lever to lock.
  - Make sure that the blue tapes of the FFC face left and it is not slanted.
- **<u>11.</u>** Turn ON the main power.
- 12. SRAM data transmission starts. When the transmission is completed, you will hear a beeper sound.Note
  - The beeper sound is the same volume as the speaker sound.
  - The beeper sounds even if the speaker sound is turned off.
  - If the beeper does not sound, cycle the main power on and off repeatedly and do the transmission procedure 2 or 3 times.
  - If the beeper does not sound after turning the main switch on and off 3 times, you need to input the settings stored in SRAM memory manually.

- **13.** When "Ready" appears on the operation panel display, turn OFF the main power, and then disconnect the FFC from the old FCU board.
- **<u>14.</u>** Disconnect the FFC from the new FCU board.
- **15.** Reassemble the machine.
- **16.** Turn ON the main power. Execute SP6-101 to print the system parameter list.
- **<u>17.</u>** Check the system parameter list to make sure that the data is transferred correctly.
- **<u>18.</u>** Set the correct date and time with the User Tools.

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

# **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	• Check the line connection.
	being pressed	• 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	• Check the line connection.
	training	• 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	• Check the line connection.
	down to 2400 bps.	• Try adjusting the tx level and/or cable equalizer.
		• Replace the FCU.
		• Check for line problems.
		Cross reference
		• See error code 0-04.
0-06	The other terminal did not reply to DCS	• Check the line connection.
		• Try adjusting the tx level and/or cable equalizer
		settings.
		• Replace the FCU.

Code	Meaning	Suggested Cause/Action
		• 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 other	• Check the line connection.
	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 too	• Replace the FCU.
	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.
		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

Code	Meaning	Suggested Cause/Action
0-16	CFR or FTT not detected after modem	Check the line connection.
	training in confidential or transfer mode	• Replace the FCU.
		• 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 keeps
	pressing the stop key	occurring, replace the operation panel or the operation
		panel drive board.
0-20	Facsimile data not received within 6 s of	• Check the line connection.
	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 other	• Check the connections between the FCU and line.
	end not received within 5 s of the	• Check for line noise or other line problems.
	previous EOL signal	• Replace the FCU.
		• The remote machine may be defective or may have
		disconnected.
		Cross reference
		• Maximum interval between EOLs and between 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 acceptable	• Replace the FCU.
	modem carrier drop time (default: 200	Defective remote terminal.
	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,

Code	Meaning	Suggested Cause/Action
		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
0-30	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 communication	• Check the line connection.
		Retry communication.
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 the	• SG3 firmware or board defective.
	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 was a
	(V.8 calling and called terminal)	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 due to
	mode, because it could not detect ANSam	noise, etc.

Code	Meaning	Suggested Cause/Action
	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 CM	• Check the line connection and condition.
	in response to ANSam (ANSam timeout).	• Try receiving a call from another V.8/V.34 fax.
0-76	The calling terminal fell back to T.30	• The called terminal could not detect a CM due to
	mode, because it could not detect a JM in	noise, etc.
	response to CM	• Check the line connection and condition.
	(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 to
	mode, because it could not detect a CJ in	noise, etc.
	response to JM	• A network that has narrow bandwidth cannot pass JM
	(JM timeout).	to the other end.
		• Check the line connection and condition.
		• Try receiving a call from another V.8/V.34 fax.
0-79	The called terminal detected CI while	• Check for line noise or other line problems.
	waiting for a V.21 signal.	• If this error occurs, the called terminal falls back to
		T.30 mode.
0-80	The line was disconnected due to a	• The guard timer expired while starting these phases.
	timeout in V.34 phase 2 – line probing.	Serious noise, narrow bandwidth, or low signal level
0-81	The line was disconnected due to a	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.
0-82	The line was disconnected due to a	• Try using V.17 or a slower modem using dedicated tx
	timeout in the V.34 phase 4 – control	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.

Code	Meaning	Suggested Cause/Action
	channel restart.	• If the same error is frequent, replace the FCU.
0-86	The line was disconnected because the	• The other terminal was incompatible.
	other terminal requested a data rate using	• Ask the other party to contact the manufacturer.
	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 channel
	unsuccessful primary 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 PPR	• Try using a lower data rate at the start.
	was transmitted/received 9 (default)	• Try adjusting the cable equalizer setting.
	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 error	• Turn off the machine, then turn it back on.
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.
0.07	marker error)	
2-27	JBIG data reconstruction error (End	
2.29	marker error)	
2-28	JBIG data reconstruction error (Timeout)	
2-29	JBIG trailing edge maker error	<ul> <li>FCU defective</li> <li>Check the destination device</li> </ul>
2-50	The machine resets itself for a fatal FCU	<ul> <li>Check the destination device.</li> <li>If this is frequent, undate the POM, or replace the</li> </ul>
2-30		• If this is frequent, update the ROM, or replace the FCU.
2-51	system error The machine resets itself because of a	
2-31	fatal communication error	• If this is frequent, update the ROM, or replace the FCU.
2-53		
2-33	Snd msg() in the manual task is an error because the mailbox for the operation	• The user did the same operation many times, and this gave too much load to the machine.
	because the manuox for the operation	gave too much toad to the machine.

Code	Meaning		Suggested Cause/Action
	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 ID	•	Get the ID Codes the same and/or the CSIs
	Code mismatch (Closed Network) or Tel.		programmed correctly, then resend.
	No./CSI mismatch (Protection against	•	The machine at the other end may be defective.
	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 of	•	Temporary memory shortage.
	memory	•	Test the SAF memory.
5-21	Memory overflow		
5-23	Print data error when printing a substitute	•	Test the SAF memory.
	rx or confidential rx message	•	Ask the other end to resend the message.
5-25	SAF file access error	•	Replace an SD card or HDD.
		•	Replace the FCU.
6-00	G3 ECM - T1 time out during reception	•	Try adjusting the rx cable equalizer.
	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 terminal.
	was no line fail	•	Replace the FCU.
		•	Try adjusting the rx cable equalizer
		Cr	oss 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 communication.
	PPS.NULL	•	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.

Code	Meaning		Suggested Cause/Action
6-10	G3 ECM - error frames still received at	•	Check for line noise.
	the other end after all communication	•	Adjust the tx level (use NCU parameter 01 or the
	attempts at 2400 bps		dedicated tx parameter for that address).
		•	Check the line connection.
		•	Defective remote terminal.
6-21	V.21 flag detected during high speed modem communication	•	The other terminal may be defective or incompatible.
6-22	The machine resets the sequence because	•	Check for line noise.
	of an abnormal handshake in the V.34	•	If the same error occurs frequently, replace the FCU.
	control channel	•	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.
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 match the
24			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 setting
26			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 server.
00			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.

Code	Meaning	Suggested Cause/Action
		• 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 destination
02		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.
14-	Access to SMTP Server Denied (450)	• Failed to access the SMTP server because the access
03		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 HDD
05		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.

Code	Meaning		Suggested Cause/Action
		•	Insufficient free space on the HDD at the target
			destination for SMTP direct sending. Contact the
			system administrator and check the amount of space
			remaining on the target HDD.
14-	User Not Found on SMTP Server (551)	•	The designated user does not exist.
06		•	The designated user does not exist on the SMTP
			server.
		•	The designated address is not for use with direct
			SMTP sending.
14-	Data Send to SMTP Server Failed (4XX)	•	Failed to access the SMTP server because the
07			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 (5XX)	•	Failed to access the SMTP server because the
08			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 failed.
09	SMTP Server	•	Incorrect setting for file transfer
14-	Addresses Exceeded	•	Number of broadcast addresses exceeded the limit for
10			the SMTP server.
14-	Buffer Full	•	The send buffer is full so the transmission could not
11			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 detected size
12	_		of the file was too large.
14-	Send Cancelled	•	Processing is interrupted because the user pressed
13			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 due to
15			the incorrect data.
32	1	1	

Code	Meaning	Suggested Cause/Action	
		• Update the software because of the defective	
		software.	
14-	Maximum Division Number Error	• When a mail is divided for the mail transmission and	
16		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.	
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 address is	
20		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 Detected	• Error detected with NFAX and send was cancelled	
32	by NFAX	due to a software error.	
14-	No Mail Address For the Machine	• Neither the mail address of the machine nor the mail	
33		address of the network administrator is registered.	
14-	Address designated in the domain for	• Operational error in normal mail sending or direct	
34	SMTP sending does not exist	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 cancelled:	

Code	Meaning	Suggested Cause/Action
50		• Address book was being edited during creation of the
		notification mail.
		• Software error.
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 cancel the
60		send operation.
14-	Notification Mail Send Failed for All	• All addresses for return notification mail failed.
61	Destinations	
14-	Transmission Error due to the existence	• When the 0 line page exists in received pages with G3
62	of zero line page	communication, the transmission is interrupted.
14-	Fax Communication Unit: Transmission	Check the followings.
63	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

Code	Meaning	Suggested Cause/Action	
		correct. 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 address of	
01		the POP3/IMAP4 server has not been registered in the	
		machine.	
15-	POP3/IMAP4 Mail Account Information	• The POP3/IMAP4 mail account has not been	
02	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-	Connection Error	The DNS or POP3/IMAP4 server could not be found:	
11		• The IP address for DNS or POP3/IMAP4 server is not	
		stored in the machine.	
		The DNS IP address is not registered.	
15		Network not operating correctly.     POP3/IMAP4 send authorization failed:	
15-	Authorization Error		
12		<ul> <li>Incorrect IFAX user name or password.</li> <li>A coord was attempted by another device, such as the</li> </ul>	
		• Access was attempted by another device, such as the PC.	
		<ul> <li>POP3/IMAP4 settings incorrect.</li> </ul>	
15-	Receive Buffer Full	<ul> <li>Occurs only during manual reception. Transmission</li> </ul>	
13-		cannot be received due to insufficient buffer space.	
15		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 example,	
14		the Date line description is incorrect.	
15-	Mail Divide Error	• The e-mail is not in standard format. There is no	
15		boundary between parts of the e-mail, including the	
		header.	
15-	Mail Size Receive Error	• The mail cannot be received because it is too large.	
16			

#### 3.Troubleshooting

Code	Meaning	Suggested Cause/Action	
15-	Receive Timeout	• May occur during manual receiving only because the	
17		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 transfer	
31	Reception Format Error	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 exceeded	
41		the limit for the "Auth. E-mail RX" setting.	
15-	Off Ramp Gateway Error	• The delivery destination address was specified with	
42		Off Ramp Gateway OFF.	
15-	Address Format Error	• Format error in the address of the Off Ramp Gateway.	
43			
15-	Addresses Over	• The number of addresses for the Off Ramp Gateway	
44		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 received	
63		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	
64		decompression error:	

Code	Meaning	Suggested Cause/Action	
		• The TIFF format of the attachment is corrupted.	
		• Software error.	
15-	Not Binary Image Data	• The file could not be received because the attachment	
71		was not binary image data.	
15-	MDN Status Error	• Could not find the Disposition line in the header of	
73		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 the	
74		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 Error	• Could not repeat receive the transmission because the	
81		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 memory	
92		overflowed during the transaction.	
15-	Memory Access Error	• Transaction could not complete due to a malfunction	
93		of SAF memory.	
15-	Incorrect ID Code	• The machine rejected an incoming e-mail for transfer	
94		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 transfer	
95		because the transfer function was unavailable.	
16-	No IP address registered	• The machine does not get an IP address because the	
00		DNS server has not been registered for the remote	
		machine or IP address of the remote machine has not	

Code	Meaning	Suggested Cause/Action	
			been registered.
		•	Register the DNS server for the remote machine or
			configure an IP address of the remote machine.
22-	Original length exceeded the maximum	•	Divide the original into more than one page.
00	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 normally;
02	disconnection at the other end		data may or may not have been received fully.
		•	Restart the machine.
22-	The machine cannot store received data	•	Update the ROM
04	in the SAF	•	Replace the FCU.
22-	No G3 parameter confirmation answer	•	Defective FCU board or firmware.
05			
23-	Data read timeout during construction	•	Restart the machine.
00		•	Replace the FCU.
25-	The machine software resets itself after a	•	Update the ROM
00	fatal transmission error occurred	•	Replace the FCU.
F0-	V.34 modem error	•	Replace the FCU.
XX			
F6-	SG3 modem error	•	Update the SG3 modem ROM.
xx		•	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 a	established.	
	specified time.		
01(14)	• The machine either of destination or of local is entering	• Exit SP or initial setting.	
	SP or Initial setting.	• Wait until the connection has	
	• An established connection exists.	finished.	

### Error Code - 02

Error Code	Suggested Cause	Action	
02(5)	• Wrong IP address/hostname is used	• Enter the correct IP address/Host name	
	• 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	Acti	ion
Code				
03	•	No user authentication applies for fax application	Configure the user auth	nentication setting for
		(i.e. Basic/Windows/LDAP/Custom Auth.)	client-side and Remote	Machine as the
	•	Settings other than user authentication are applied	following table.	
		to the fax application.	Client-side Machine	Remote Machine
			OFF	OFF
			ON	OFF
			ON	ON

### Error Code - 04

Error	Suggested Cause	Action
Code		
04	Although the same user registered to the Remote Machine	• Register the same user to both

#### 3.Troubleshooting

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

#### Error Code - 05

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

### Error Code - 07

Error	Suggested Cause	Action
Code		
07	Multiple destinations are set in the Client-	In the Client-side Machine, execute SP5-801-021 to
	side Machine.	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
	•	The Client-side Machine not registered in the		Remote Machine as a destination.
		Remote Machine as destinations.		
08(2)	•	A Remote Machine connects to other Remote	•	Connect to the Client-side Machine.
		Machine.	•	Check what Remote Machine registered in
	•	Wrong Remote Machine registered in the		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 the
	Machine is full.	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 LAN	Check that the LAN cable is connected to the machine.
	2. LAN activity	Check that the LEDs on the hub are lit.     Check that other devices connected to the LAN can     communicate through the LAN.
Between IFAX and PC	1. Network settings on the PC	• Check the network settings on 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 connect with the machine	<ul> <li>Use the "ping" command on the PC to contact the machine.</li> <li>[At the MS-DOS prompt, type ping then the IP address of the machine, then press Enter.]</li> </ul>
	3. LAN settings in the machine	<ul> <li>Check the LAN parameters</li> <li>Check if there is an IP address conflict with other PCs.</li> <li>[Use the "Network" function in the User Tools.</li> <li>If there is an IP address conflict, inform the administrator.]</li> </ul>
Between machine and e-mail server	1. LAN settings in the machine	<ul> <li>Check the LAN parameters</li> <li>Check if there is an IP address conflict with other PCs.</li> <li>[Use the "Network" function in the User Tools.</li> <li>If there is an IP address conflict, inform the administrator.]</li> </ul>
	<ol> <li>2. E-mail account on the server</li> <li>3. E-mail server</li> </ol>	<ul> <li>Make sure that the machine can log into the e-mail server.</li> <li>Check that the account and password stored in the server are the same as in the machine.</li> <li>[Ask the administrator to check.]</li> <li>Make sure that the client devices which have an account in the server can send/receive e-mail.</li> </ul>

#### 3. Troubleshooting

Communication	Item	Action [Remarks]
Route		
		[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 the	• Make sure that the PC can log into the e-mail server.
server and internet	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 used.
	address	• 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 devices connected to the router can
		sent 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 address
	mail from the network of	on the same network, using the application e-mail
	the destination.	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/host name correct?	Check the IP address/host name.
3	Firewall/NAT is installed?	Cannot breach the firewall. Send by using
		another method (Fax, Internet Fax)
4	Transmission sent manually?	Manual sending not supported.
5	IP address of local machine registered?	Register the IP address.
6	Remote terminal port number setting other than 1720	Send by specifying the port number.
	(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 host name 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 cancelled transmission?	Check whether the remote fax cancelled the
		transmission.

### Cannot Send via VoIP Gateway.

Che	eck 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/host name of the specified	Check the IP address/host name.
	Gateway correct?	
6	Number of the specified fax correct?	Check the remote fax number.
7	Firewall/NAT is installed?	Cannot breach the firewall. Send by using another
		method (Fax, Internet Fax)

8	Transmission sent manually?	Manual sending not supported.
9	IP address of local fax registered?	Register the IP address.
10	DNS registered when host name specified?	Contact the network administrator.
11	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 server	Check the IP address/host name.
	correct?	
8	DNS server registered when Gatekeeper/SIP	Contact the network administrator.
	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.

Cł	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 fax	Request the sender to specify the port number.
	(if required)?	
5	Specified port number correct (if required)?	Request the sender to check the port number.
6	DNS server registered when host name	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 cancelled transmission?	Check whether the remote fax cancelled the transmission.

### Cannot Receive by VoIP Gateway.

Cł	eck 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	IP address/host name of specified VoIP	Request the remote fax to check the IP address/host name.
	Gateway correct on sender's side?	
6	DNS server registered when host name	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	Gatekeeper installed 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/host name of Gatekeeper correct	Request the sender to check the IP address/host name.
	on the sender's side?	♦ Note
		• The sender machine displays this error code
		when the sender fax is a Ricoh model.
6	DNS server registered when Gatekeeper host	Contact the network administrator.
	name 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 cancelled transmission?	Check whether the remote fax cancelled the transmission.
12	Local fax registered in Gatekeeper/SIP	Contact the network administrator.
	server ?	♦ Note
		• The sender machine displays this error code

#### 3.Troubleshooting

	w	when the sender fax is a Ricoh model.
L		

# 4. Service Tables

# Beforehand

### 

• 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.

#### Vote

• 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	System Swi	tch	1
	001 - 032	00 – 1F	Change the bit switches for system settings for the fax option
			See "Bit Switches - 1"
102	Ifax Switch		
	001 - 016	00 - 0F	Change the bit switches for internet fax settings for the fax option
			See "Bit Switches - 2"
103	Printer Swit	ch	
	001 - 016	00 - 0F	Change the bit switches for printer settings for the fax option
			See "Bit Switches - 2"
104	Communica	tion Switch	1
	001 - 032	00 – 1F	Change the bit switches for communication settings for the fax option
			See "Bit Switches - 3"
105	G3-1 Switch	1	
	001 - 016	00 - 0F	Change the bit switches for the protocol settings of the standard G3 board
			See "Bit Switches - 4"
111	11 IP fax Switch		-
	001 - 016	00 - 0F	Change the bit switches for optional IP fax parameters
			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	Serial Number				
	000		Enter the fax unit's serial number.		
103	PSTN-1	l 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.		
	006	SIP Server Port	Sets the SIP port number.		
	007	IPFAX Protocol	Select "H323" or "SIP".		
		Priority			
201	FAX SW				
	001 -	00 – 1F			
	032				
301	Fax:Fla	irAPI Setting	·		
	101	-			

### SP4-XXX (ROM Version)

4	Mode 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	Mode	Function
	No.	

#### 4.Service Tables

101	Initialize	SRAM (except Secure)
	000 Initializes the bit switches and user parameters, user data in the SRAM, files in the S	
		memory, and clock.
102	Erase All	Files
	000	Erases all files stored in the SAF memory.
103	Reset Bit	Switches (except Secure)
	000	Resets the bit switches and user parameters.
104 Factory setting		etting
000 Resets the bit switches and use		Resets the bit switches and user parameters, user data in the SRAM and files in the SAF
		memory.
105	Reset All	Bit Switches
	000	Initializes all the current bit switch settings.
106 Reset Secure Bit Switches		eure 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.		parameter switches, the security settings are initialized.

### SP6-XXX (Report)

6	Mod	e No.	Function
101		em Parameter List	
	000		Touch the "ON" button to print the system parameter list.
102	02 Service Monitor Report		
	000	-	Touch the "ON" button to print the service monitor report.
103	G3 P	rotocol Dump List	
	002	G3-1 (All	Prints the protocol dump list of all communications for the G3-1 line.
		Communications)	
	003	G3-1	Prints the protocol dump list of the last communication for the G3-1 line.
		(1 Communication)	
105	All F	files Print out	
	000	-	Prints out all the user files in the SAF memory, including confidential
			messages.
			♦ Note
			• Do not use this function, unless the customer is having trouble
			printing confidential messages or recovering files stored using
			the memory lock feature.
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 date.
107	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	
	008	JBIG	
	009	Fax Driver	
	010	G3CCU	
	011	Fax Job	
	012	CCU	
	013	Scanner Condition	
108	IP Pr	rotocol 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

#### Note

• 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

Syst	System Switch 00 (SP No. 1-101-001)		
No	Function	Comments	
0	Dedicated transmission	Set this bit to 1 before changing any dedicated transmission parameters.	
	parameter programming	This setting is automatically reset to "0" after turning off and on.	
	0: Disabled		
	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	
	the Journal	Journal for each G3 communication.	
	0: Disabled		
	1: Enabled		
	Example:		
	<b>0000 32V34 288/264</b> (1) (2)(3) (4) (5)	L0100 03 04 (6) (7) (8)	
	(1): EQM value (Line quality 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)		
	(5): Final data rate		
	(6): Rx revel (see below for how to read the rx level)		
	(7): Total number of error lines that occurred during non-ECM reception.		
	(8): Total number of burst error lines that occurred during non-ECM reception.		
	● Note		
	• 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:		

	<b>0000 32V34 288/264</b> (1) (2)(3) (4) (5)	L0100 03 04 (6) (7) (8)
	The four-digit hexadecimal val	ue (N) after "L" indicates the rx level.
	The high byte is given first, for	llowed by the low byte. Divide the decimal value of N by -16 to get the rx
	level.	
	In the above example, the decir	mal value of N (= 0100 [H]) is 256.
	So, the actual rx level is 256/-1	6 = -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 a line
	0: OFF, 1: ON (print)	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 (see "G3
	parameter display	Communication Parameters" below this table). This is normally disabled
	0: 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 this bit
	0: Off	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 mode	ECM: With ECM	
	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.)

Syst	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 the	
	0: Depends on User	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.)

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

#### 4.Service Tables

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 parameters;
	0: Disabled	34 bytes of data are printed (the other 24 bytes have no use for service
	1: Enabled	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.)		

Syst	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 result	
	transmission result report	reports.	
	0: Disabled 1: Enabled		
1	Print timing of communication reports	0: The Journal is printed only when image data is sent.	
	on the Journal when no image data was	1: The Journal is printed when any data is sent.	
	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 error	1: Error codes are printed on the error reports.	
	report	This can be used for detecting an error which occurs rarely.	
	0: No 1: Yes		
4	Not used	Do not change this setting.	
5	Power failure report	1: A power failure report will be automatically printed after the	
	0: Disabled	power is switched on if a fax message disappeared from the	
	1: Enabled (default)	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 00 bit
	dump list	6 is set to 1.
	0: Print for all communications	1: Set this bit to 1 when you wish to print a protocol dump list
	1: Print only when there is a	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.

Syst	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 pad	0: Prevents dialing from the ten-key pad while the external telephone is	
	when the external	off-hook. Use this setting when the external telephone is not by the	
	telephone is off-hook	machine, or if a wireless telephone is connected as an external telephone.	
	0: Disabled 1: Enabled	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.)	

Syst	System Switch 0E (SP No. 1-101-015)		
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 during	
	sending selection	sending. Setting this switch to "1" enables direct sending without capture.	
	0: Direct sending off	Setting this switch to "0" masks the direct sending function on the	
	1: Direct sending on	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. However,	
	handset goes off-hook	manual tx during handset off-hook may not be sent to a correct direction.	
	0: Manual tx and rx operation	Manual tx is not possible.	

	1: Memory tx and rx	1: The display stays in standby mode even when the external handset is
	operation (the display	used, so that other people can use the machine for memory tx operation.
	remains the same)	Note that manual tx and rx are not possible with this setting.
4-	Not used	Do not change these settings.
7		

Syst	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 switches and	
to	functional set	tings (Hex)	RAM addresses. However, it has no effect on the NCU parameter	
7	00: France	12: Asia	settings and communication parameter RAM addresses.	
	01:	13: Japan	Cross reference	
	Germany		NCU country code:	
	02: UK	14: Hong	SP No. 2-103-001 for G3-1	
		Kong	SP No. 2-104-001 for G3-2	
	03: Italy	15: South	SP No. 2-105-001 for G3-3	
		Africa		
	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: Sweden	1C: Korea		
	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			

Syste	System Switch 10 (SP No. 1-101-017)	
No	Function     Comments	
0-7	7 Threshold memory level for parallel memory transmission Threshold = $N \times 128 \text{ KB} + 256 \text{ KB}$	

	N can be between 00 - FF(H)
	Default setting: $02(H) = 512 \text{ KB}$

Syst	System 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 data	customer considers to be important (G3 transmissions).			
	1: Printed before the data leading	NOTE: If "1" is selected, it is possible that sent data is printed on			
	edge	two sheets of paper.			
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 destinations			
	0: The TTIs selected for each	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					

Syst	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 of the	
	direction	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)

Syst	System Switch 15 (SP No. 1-101-022)		
No	Vo Function Comments		
0	Not used         Do not change the settings.		
1	Going into the Energy Saver mode1: The machine will restart from the Energy Saver mode		
automatically quickly, because the +		quickly, because the +5V power supply is active even in the	
	0: Enabled	Energy Saver mode. The LED of the operation switch is	
	1: Disabled	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	Not used		Do not change these settings.
3				
4-	Interval	Interval for preventing the machine		If there is a file waiting for transmission, the machine does not
5	from ent	from entering Energy Saver mode if		go to Energy Saver mode during the selected period.
	there is a	there is a pending transmission file.		After transmitting the file, if there is no file waiting for
	Bit 5	Bit 4	Setting	transmission, the machine goes to the Energy Saver mode.
	0	0 0 1 min		
	0	1	30 min	
	1	0	1 hour	
	1	1	24 hours	
6-	Not used	1		Do not change the settings.
7				

Syst	System Switch 16 (SP No. 1-101-023)		
No	Function	Comments	
0	Parallel	1: The machine sends messages simultaneously using all available ports during	
	Broadcasting	broadcasting.	
	0: Disabled	<b>NOTE:</b> If a customer wants to keep a line available for fax reception or other	
	1: Enabled	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)

Syst	System Switch 19 (SP No. 1-101-026)		
No	Function	Comments	
0-	Not used	Do not change the settings.	
5			
6	Extended scanner page	0: After installing the memory expansion option, the scanner page memory is	
	memory after memory	extended to 4 MB from 2 MB.	
	option is installed	1: If this bit is set to 1 after installing the memory expansion option, the	
	0: Disabled	scanner page memory is extended to 12 MB. But the SAF memory decreases	
	1: Enabled to 18 MB.		
7*	Special Original mode	1: If the customer frequently wishes to transmit a form or letterhead which	
	0: Disabled	has a colored or printed background, change this bit to "1". "Original 1" and	

1: Enabled	"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.

Syst	System Switch 1A (SP No. 1-101-027)	
No	Function	Comments
0	LS RX memory capacity	Sets the value to x4KB. When the amount of available memory drops below
to	threshold setting	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)

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

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

	0: The current page is erased.	1: If the SAF memory becomes full during scanning for a memory
	1: The entire file is erased.	transmission, the file is erased and no pages are transmitted.
		♦ 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 the
	0: RTI 1: CSI	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	<b>NOTE:</b> The file numbers may not be printed in the sequential order.
	1: Disabled	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, the user
	reception is enabled but	can select "ON" in the authorized reception setting but the setting
	authorized RTIs/CSIs are not yet	becomes invalid ("OFF"). The machine will not be able to receive any
	programmed	fax messages.
	0: All fax reception is disabled	If the customer wishes to receive messages from any sender that
	1: Faxes can be received if the	includes an RTI or CSI, and to block messages from senders that do
	sender has an RTI or CSI	not include an RTI or CSI, change this bit to "0", then enable
		Authorized Reception.
		Otherwise, keep this bit at "1 (default setting)".
5-	Not used	Do not change the settings
7		

\* This setting can be used for the client machine which has no FCU.

Syst	System Switch 1F (SP No. 1-101-032)		
No	Function	Comments	
0	Not used	Do not change the settings.	
1	Report printout after an original jam during	0: When an original jams, or the SAF memory overflows	
	SAF storage or if the SAF memory fills up	during scanning, a report will be printed.	
	0: Enabled	Change this bit to "1" if the customer does not want to have	
	1: Disabled	a report in these cases.	
		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			

-

#### 4.Service Tables

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

#### Note

• 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	I-fax Switch 00 (SP No. 1-102-001)		
No	Function	Comments	
Origi	nal Width of TX	This setting sets the maximum size of the original that the destination can	
Attac	hment File	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, the	re 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	I-fax Switch 01 (SP No. 1-102-002)		
No	Function	Comments	
Origi	nal Line Resolution of	These settings set the maximum resolution of the original that the destination	
TX A	ttachment File	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 has	
3	300 x 300 Reserve	priority. For example, if both Bit 0 and Bit 2 are set to "1" Then The Resolution	
4	400 x 400 Super	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	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.		
1	Output from Attached Document at E-mail TX 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 transmission error occurs. This allows the customer to see which documents have		
	not reached their intended destinations if sent to the wrong e-mail addresses, for example.		
	0: Prints 1st page only.		
	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	Image 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.			

	problems when receiving transmissions).		
	delivery by F-code, sending with SMTP RX and when operators are using FOL (to prevent		
	• This switch does not apply for condition 3) when the RX system is set up for memory sending,		
	<ul><li>3) With relay broadcasting (1st stage without the Schmidt 4 function).</li><li>Note</li></ul>		
	2) When memory sending or delivery specified by F code is applied by the SMTP server		
	1) When the service technician sets the service (software) switch.		
	The standard subject is replaced by the mail post database subject in the following three cases:		
	1: Mail post database subject		
	0: Standard subject		
1	Subject corresponding to mail post database		
	for each e-mail.		
	indicates where the transmission originated can be used to determine automatically the destination folder		
	When this switch is used to transfer and deliver mail to a PC, the information in the Subject line that		
	1: Puts the RTI/CSI registered on this machine in the Subject line.		
	Only one of these can be received for use in the subject line.		

I-fax Switch 05 (SP No. 1-102-006)			
No	Function	Comments	
0	0 Mail Addresses of SMTP Broadcast Recipients		
	Determines whether the e-mail addresses of the destinations that receive transmissions broadcasted using		
	SMTP protocol are recorded 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	1 IFAXTX Retries		
	IFAX when connection and transmission fails due to		
	errors.		
	0: Disabled		
	1: Enabled		
2       When sending Tiff files to the mail/folder destinations, selects the resizing function in the direction.         Controls ON/OFF of the function, that fit the Tiff files sent from the fax application, with		ations, selects the resizing function in the main scan	
		f 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	I-fax Switch 08 (SP No. 1-102-009)				
No	o 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-fay	I-fax Switch 09 (SP No. 1-102-010)			
No	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 transmission fails		
7	Retries	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	I-fax Switch 0D (SP No. 1-102-014)				
No	Function		Comments		
0-1	Not used			Do not change the settings	
2-3	Select the sign	nature when send	ling mail notification of the send results	In response to IEEE2600.1.	
	Bit 2	Bit 3	Setting		
	0	0	No sign		
0 1		1	No setting		
	1 0 Individual setting				
1 1		1	Always sign		
4-5	Bit 5     Bit 4     Setting       0     0     No sign		In response to IEEE2600.1.		
			Setting		

	0	1	No setting	
	1	0	Individual setting	
	1	1	Always sign	
6-7	Not used			Do not change the settings.

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

I-fax	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.				
	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

Prin	Printer Switch 00 (SP No. 1-103-001)			
No	Function	Comments		
0	Select page separation	0: If a 2 page RX transmission is split, [*] is printed in the bottom right		
	marks	corner of the 1st page and only a [2] is printed in the upper right corner of		
	0: Off	the 2nd page.		
	1: On	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 the	1: Default. 10 mm of the trailing edge of the previous page are repeated at		
	received page is longer than	the top of the next page.		
	the printer paper	0: The next page continues from where the previous page stopped without		

	0: Off	any repeated text.
	1: On	
2	Prints the date and time on	This switch is only effective when user parameter 02 - bit 2 (printing the
	received fax messages	received date and time on received fax messages) is enabled.
	0: Disabled	1: The machine prints the received and printed date and time at the bottom
	1: Enabled	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 station	0: The paper feed station can be used to print fax messages and reports.			
	usage for fax printing	1: The specified paper feed station will not be used for printing fax messages			
	0: Enabled	and reports.			
	1: Disabled	♦ Note			
1*	2nd paper feed station	• Do not disable usage for a paper feed station which has been specified			
	usage for fax printing	by User Parameter Switch 0F (15), or which is used for the Specified			
	0: Enabled	Cassette Selection feature.			
	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					

Prin	Printer Switch 03 (SP No. 1-103-004)		
No	Function	Comments	

0*	I must and stime of an arised data	0. In a mine many and an interd with east law others duration		
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 7)		
	1: Enabled	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 scan	Page separation threshold (with reduction disabled with		
to	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.

Prin	ter Switch 04 (S	SP No. 1-103-005)					
No	Function			Comments			
0	Maximum red	ucible length when l	ength r	eduction is enabled	with switch 0.	3-0 above.	
to	[Maximum red	ducible length] = [Pa	per len	$[gth] + (N \times 5mm)$			
4	"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 nex	t page, when page	separation has	taken place.	
6	Bit 6		Bit 5		Setting	Setting	
	0		0		4 mm		
	0		1		10 mm	10 mm	
	1 (		0		15 mm		
	1 1		1		Not used		
7	Not used.			o not change the se	tting.		

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

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 – User
	0: Printing will not start	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		

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 printing of			
	size.	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		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	Printer Switch 0E (SP No. 1-103-015)			
No	No Function Comments			
0*	* Paper size selection priority 0: A paper size that has the same width as the received data is selec			
	0: Width first.			
	1: Length 1: A paper size which has enough length to print all the received			
	without reduction is selected first.			
1*	Paper size selected for printing	This switch determines which paper size is selected for printing A4		

	A4 width fax data			width fax data, when the machine has both A4 and 8.5" x 11" size		
	0: 8.5" x 11" size			рарег.		
	1: A4 size					
2	Page	separa	tion	1: If all paper sizes in the machine require page separation to print a		
	0: Er	nabled		received fax message, the machine does not print the message		
	1: Di	isabled		(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	sample image on	"Same size" means the sample image is printed at 100%, even if page		
4	repo	rts		separation occurs.		
	Bit	Bit	Setting	User Parameter Switch 19 (13H) bit 4 must be set to "0" to enable this		
	4	3		switch.		
	0	0	The upper half	Refer to Detailed Section Descriptions for more on this feature.		
			only			
	0	1	50% reduction			
			(sub-scan only)			
	1	0	Same size			
	1	1	Not used			
5-	Not	used	•	Do not change the settings.		
6						
7	Equa	lizing t	the reduction ratio	0: When page separation has taken place, all the pages are reduced		
	among separated pages			with the same reduction ratio.		
	(Page Separation)			1: Only the last page is reduced to fit the selected paper size when		
	0: Er	nabled		page separation has taken place. Other pages are printed without		
	1: Di	isabled		reduction.		

Prin	Printer Switch 0F (SP No. 1-103-016)					
No	Function			Comments		
0-	Smooth	hing featu	ure	(0, 0) $(0, 1)$ : Disable smoothing if the machine receives halftone images		
1*	Bit 1	Bit 0	Setting	from other manufacturers fax machines frequently.		
	0	0	Disabled			
	0	01Disabled10Enabled				
	1					
	1	1	Not used			
2*	Duplex	Duplex printing		1: The machine always prints received fax messages in duplex printing		
	0: Disabled			mode:		
	1: Enabled					
3	Binding direction for Duplex		on for Duplex	0: Sets the binding for the left edge of the stack.		

	printing	1: Sets the binding for the top of the stack.
	0: Left binding	
	1: Top binding	
4-7	Not used	Do not change the settings.

# Bit Switches - 3

## Note

• 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	nmuni	cation	Switch 00 (SP No. 1-104-	.001)	
No	Function			Comments	
0-	- Compression modes available in		n modes available in	These bits determine the compression capabilities to be declared	
1	receive mode			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	pressio	n modes available in	These bits determine the compression capabilities to be used in	
3	transmit mode			the transmission and to be declared in phase B (handshaking) of	
	Bit	Bit	Modes	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	d comp	ression method:	Change the setting when communication problems occur using	
	Rece	ption		JBIG compression.	
	0: Oi	nly bas	ic supported		
	1: Ba	asic and	d optional both supported		
6	JBIG	d comp	ression method:	Change the setting when communication problems occur using	
	Tran	smissic	n	JBIG compression.	
	0: Ba	asic mo	de priority		
	1: Optional mode priority				
7	Close	ed netv	work (reception)	1: Reception will not go ahead if the polling ID code of the	
	0: Di	isabled		remote terminal does not match the polling ID code of the local	

terminal. This function is only available in NSF/NSS mode.

Con	nmuni	No. 1-104-002)		
No	Function			Comments
0	ECM			If this bit is set to 0, ECM is switched off for all communications.
	0: Of	f 1: On		In addition, V.8 protocol and JBIG compression are switched off
				automatically.
1	Not u	sed		Do not change the setting.
2-	Wron	g conne	ection	(0,1): The machine will disconnect the line without sending a fax message, if
3	preve	ntion m	ethod	the last 8 digits of the received CSI do not match the last 8 digits of the
	Bit	Bit	Setting	dialed telephone number. This does not work when manually dialed.
	3	2		(1,0): The same as above, except that only the last 4 digits are compared.
	0	0	None	(1,1): The machine will disconnect the line without sending a fax message, if
	0	1	8 digit CSI	the other end does not identify itself with an RTI or CSI.
	1	0	4 digit CSI	(0,0): Nothing is checked; transmission will always go ahead.
	1	1	CSI/RTI	♦ Note
			1	• This function does not work when dialing is done from the external
				telephone.
4-	Not u	sed		Do not change the setting.
5				
6-	Maxi	mum pr	intable page	The setting determined by these bits is informed to the transmitting terminal
7	lengtl	n availa	ble	in the pre-message protocol exchange (in the DIS/NSF frames).
	Bit	Bit	Setting	
	7         6           0         0         No limit			
			No limit	
	0	1	B4 (364	
	mm)		mm)	
	1	0	A4 (297	
			mm)	
	1 1 Not used		Not used	

Con	Communication Switch 02 (SP No. 1-104-003)					
No	Function     Comments					
0	G3 Burst error threshold	If there are more consecu	If there are more consecutive error lines in the received page than			
	0: Low 1: High	the threshold, the machine will send a negative response. The Low				
		and 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	a page exceeds the acceptable ratio, RTN
	0: 5% 1: 10%	will be sent to the other e	end.
2	Treatment of pages received with	0: Pages received with er	rrors are not printed.
	errors during G3 reception		
	0: Deleted from memory without		
	printing		
	1: Printed		
3	Hang-up decision when a negative	0: The next page will be	sent even if RTN or PIN is received.
	code (RTN or PIN) is received	1: The machine will send	DCN and hang up if it receives RTN or
	during G3 immediate transmission	PIN.	
	0: No hang-up, 1: Hang-up	This bit is ignored for me	emory transmissions or if ECM is being
		used.	
4-	Not used	Do not change these setti	ings.
7			

Communication Switch 03 (SP No. 1-104-004)			
No Function Comments		Comments	
0-	Maximum number of page retransmissions in a G3 memory	00 - FF (Hex) times.	
7	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 after	
	(FAX mode)	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 after	
	(AUTO mode)	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 external	
3	number	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)	

Communication Switch 09 (SP No. 1-104-009)		
No	No Function Comments	
0-	Minimum interval between automatic	This value is the minimum time that the machine waits before it
7	dialing attempts	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 normal	
	1: From page 1	memory transmission.	
1-	Not used	Do not change these settings.	
7			

Con	Communication Switch 0B (SP No. 1-104-012)		
No	Function     Comments		
0-	Not used	Do not change these settings.	
3			
4	Printout of the message when	When the machine is acting as a Transfer Station, this bit determines	
	acting as a Transfer Station	whether the machine prints the fax message coming in from the	
	0: Disabled, 1: Enabled	Requesting Terminal.	
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, below	00 to FF (Hex), unit = 4 kbytes	
7	which ringing detection (and therefore	(e.g., 06(H) = 24  kbytes)	
	reception into memory) is disabled	One page is about 24 kbytes.	
		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.	

Communication Switch 0E (SP No. 1-104-015)		
No	No Function Comments	
0-	Minimum interval between automatic	06 to FF (Hex), unit = 2 s
7	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.)

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

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

Communication Switch 12 (SP No. 1-104-019)		
No	Function     Comments	
0-7	Memory transmission: Interval between dialing attempts to the same destination	01 – FF (Hex) 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 conversion during			0: In immediate transmission, data scanned in inch format are		
	transmission			transmitted without conversion.		
	0: Disat	oled, 1: Ei	nabled	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	ax messag	ges are received	The setting determined by these bits is informed to the transmitting		
	Bit 7	Bit 6	Unit	terminal in the pre-message protocol exchange (in the DIS/NSF		
	0	0	mm	frames).		
	0	1	inch			
	1	0	mm and inch			
	1	1	Not used			

<b>Communication Switch 15</b> – Not used (do not change the settings)
<b>Communication Switch 16</b> – 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 the SEP			
	0: Disabled	(Selective Polling) signal is disabled.			
	1: Enabled				
1	SUB reception	0: Confidential reception to another maker's machine using the			
	0: Disabled	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 PSTN			

	0: OFF	dial-in line and transfers received data from each PSTN dial-in
	1: ON	number to each address.
6	Not used	Do not change the settings.
7	Action when there is no box with an	Change this setting when the customer requires.
	F-code that matches the received	
	SUB code	
	0: Disconnect the line	
	1: Receive the message	
	(using normal reception mode)	

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 (0	If the PABX does not support V.8/V.34 protocol procedure, set this bit to "1"			
7	to 7) to turn V.8 protocol	to disable V.8.			
	On/Off	Example: If "0" is the PSTN access code, set bit 0 to 1. When the machine			
	0: On	detects "0" as the first dialed number, it automatically disables V.8 protocol.			
	1: Off	(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 (8	Refer to communication switch 1B.			
1	and 9) to turn V.8 protocol	Example: If "8" is the PSTN access code, set bit 0 to 1. When the machine			
	On/Off	detects "8" as the first dialed number, it automatically disables V.8 protocol.			
	0: On	(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

# Note

• 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	Function			Comments			
0	Monito	or speake	r during	(0, 0): The monitor speaker is disabled all through the			
1	comm	unication	(tx and rx)	communication.			
	Bit 1	Bit 0	Setting	(0, 1): The monitor speaker is on up to phase B in the T.30 protocol.			
	0	0	Disabled	(1, 0): Used for testing. The monitor speaker is on all through the			
	0	1	Up to Phase B	communication. Make sure that you reset these bits after testing.			
	1	0	All the time				
	1	1	Not used				
2	Monito	or speake	r during memory	1: The monitor speaker is enabled during memory transmission.			
	transm	ission					
	0: Disa	0: Disabled 1: Enabled					
3-	Not us	Not used		Do not change the settings.			
5							
6	Dedica	ted G3 li	ne mode selection	Set this bit to 1 when you wish to dedicate a line for G3.			
	0: Off 1: On (Dedicated)						
7	Not us	ed		Do not change this setting.			

G3 \$	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 to 1 if			
	0: 10 bytes 1: 4	there are communication problems with PC-based faxes which cannot receive the			
	bytes	extended DIS frames).			
5	Not used	Do not change the setting.			
6	Forbid	Do not change this setting (Default: 0: Off), unless communication problem is			

	CED/ANsam	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 non-	1: Disables NSF/NSS signals (these are used in non-standard mode					
	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 Short					
	0: Disabled 1:	Preamble.					
	Enabled						

G3 \$	G3 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 twice.					
	(Echo countermeasure)	1: Before sending DCS, the machine will wait for the second DIS					
	0:1	which is caused by echo on the line.					
	1:2						
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 machine					
	0: After one PPR signal	sends a CTC to drop back the modem rate after receiving a PPR, if the					
	received	following condition is met in communications at 14.4, 12.0, 9.6, and 7.2					
	1: After four PPR signals	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 the next
	page after receiving a negative	page if a negative code is received. This bit is ignored if ECM is being
	code (RTN or PIN)	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 phone
	polarity in ringing	line (applied to PSTN-G3 ringing). Do not change this setting
	0: Off	0: No detection
	1: On	1: Detection (Japan and Korea only)

G3 S	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 \$	Switch 0	<b>5 (SP</b> ]	No. 1-1	105-006)		
No	Function					Comments
0-	Initial Tx modem rate (kbps)					These bits set the initial starting modem rate for transmission.
3	Bit 3	Bit	Bit	Bit 0	kbps	Use the dedicated transmission parameters if you need to change
		2	1			this for specific receivers.
	0	0	0	1	2.4	If a modem rate 14.4 kbps or slower is selected, V.8 protocol
	0	0	1	0	4.8	should be disabled manually.
	0	0	1	1	7.2 Cross	Cross reference
	0	1	0	0	9.6	V.8 protocol on/off - G3 switch 03, bit 2
	0	1	0	1	12.0	
	0	1	1	0	14.4	
	0 1 1 1	1	16.8			
	1	0	0	0	19.2	
	1	0	0	1	21.6	

	1		-	1		
	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 s	Other settings - Not used				
4-	Initial r	Initial modem type for 9.6 k or 7.2				These bits set the initial modern type for 9.6 and 7.2 kbps, if the
5	kbps.					initial modem rate is set at these speeds.
	Bit 5	E	Bit	Setting		
		4		_		
	0	0	)	V.29		
	0	1		V.17		
	1	0	)	V.34		1
	1	1		Not used	1	1
6-	Not use	ed				Do not change the settings.
7						

G3 Switch 06 (SP No. 1-105-007)								
No	Function					Comments		
0-	Initial Rx modem rate	e(kbps)	)			These bits set the initial starting modem rate for		
3	Bit 3	Bit	Bit	Bit	kbps	reception.		
		2	1	0		Use a lower setting if high speeds pose problems		
	0	0	0	1	2.4	during reception.		
	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, 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 u	ised	•					
4-	Modem types availab	le for 1	ecepti	on		·		

7 The setting of these bits is used to inform the transmitting terminal of the available modem type for the machine in receive mode.

If V.34 is not selected, V.8 protocol must 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

G3 \$	G3 Switch 07 (SP No. 1-105-008)							
No	Function			Comments				
0-	PSTN	V cable	equalizer	Use a higher setting if there is signal loss at higher frequencies because of the				
1	(tx m	ode: In	iternal)	length of wire between the modem and the telephone exchange.				
	Bit	Bit	Setting	Use the dedicated transmission parameters for specific receivers.				
	1	0		Also, try using the cable equalizer if one or more of the following symptoms				
	0	0	None	occurs.				
	0	1	Low	Communication error				
	1	0	Medium	Modem rate fallback occurs frequently.				
	1	1	High	♦ Note				
				• This setting is not effective in V.34 communications.				
2-	PSTN cable equalizer		equalizer	Use a higher setting if there is signal loss at higher frequencies because of the				
3	(rx mode: Internal)		nternal)	length of wire between the modem and the telephone exchange.				
	Bit	Bit	Setting	Also, try using the cable equalizer if one or more of the following symptoms				
	3	2		occurs.				
	0	0	None	Communication error with error codes such as 0-20, 0-23, etc.				
	0	1	Low	Modem rate fallback occurs frequently.				
	1	0	Medium	♦ Note				
	1	1	High	• This setting is not effective in V.34 communications.				
4	PSTN	V cable	equalizer	Keep this bit at "1".				
	(V.8/	V.17 rx	mode:					
	Exter	mal)						
	0: Di	sabled						

	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 "Normal
	0: Normal parameter	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 \$	G3 Switch 0A (SP No. 1-105-011)							
No	Function			Comments				
0-	Maximum allowable carrier			These bits set the acceptable modem carrier drop time.				
1	drop d	uring ima	age data	Try a longer setting if error code 0-22 is frequent.				
	recepti	on						
	Bit 1	Bit 0	Value (ms)					
	0	0	200					
	0	1	400					
	1	0	800					
	1	1	Not used					
2	Select	cancellat	tion of high-	This switch setting determines if high-speed receiving ends if the carrier				
	speed l	RX if car	rier signal	signal is lost when receiving during non-ECM mode				
	lost wł	nile recei	ving					
	0: Off							
	1: On							
3	Not us	ed		Do not change the settings				
4	Maximum allowable frame		wable frame	This bit set the maximum interval between EOL (end-of-line) signals and				
	interval during image data			the maximum interval between ECM frames from the other end.				
	reception.			Try using a longer setting if error code 0-21 is frequent.				
	0: 5 s 1	1:13 s						
5	Not used			Do not change the settings.				
6	Reconstruction time for the			When the sending terminal is controlled by a computer, there may be a				
	first lir	ne in rece	eive mode	delay in receiving page data after the local machine accepts set-up data				
	0: 6 s 1	: 12 s		and sends CFR. This is outside the T.30 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 \$	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 from the			
5	when using remote switch.	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			
0-7	Set CNG send time interval				
	Some machines on the	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	No Function Comments		
0 Alarm when an error occurred in If the customer wants to hear		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 at	If the customer wants to hear an alarm if the handset is off-hook	

	the end of communication	at the end of fax communication, change this bit to "1".
	0: Disabled	
	1: Enabled	
2-	Not used	Do not change these settings.
3		
4	Sidaa manual calibration setting	1: manually calibrates for communication with a line whose
	0: Off	current change occurs such as an optical fiber line.
	1: On	
5-	Not used	Do not change the settings.
7		

# Bit Switches - 5

# Note

• 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 Fa	IP 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 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 bit rate	When "0" is selected, the max bit rate does not affect the value of the			
	setting	DIS/DCS.			
	0: Not affected, 1:	When "1" is selected, the max bit rate affects the value of the DIS/DCS.			
	Affected				
7	IP Fax received	When "0" is selected, fax data is received without checking the telephone			
	telephone number	number.			
	confirmation	When "1" is selected, fax data is received only when confirming that the			
	0: No confirmation, 1:	telephone number from the sender matches the registered telephone number in			
	Confirmation	this machine. If this confirmation fails, the line is disconnected.			

No.	Function		Commen	its		
0-3	IP Fax delay level setting					
	Selects the acc	eptable delay le	vel.			
	Level 0 is the highest quality					
	Default is "000	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 preamb	le wait time sett	ing	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 (No 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 decided by		
	0: Maker code setting	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 setting	Selects the transmit speed for IP Fax communication.		
	0: Modem speed			
	1: No limitation			
2	SIP transport setting	This bit switch sets the transport that has priority for receiving IP		
	0: TCP	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 with H.323		
	0: No CCM connection	or no tunneled H.245 is transmitted via CCM.		
	1: CCM connection			
4	Message reception selection from	0: This answers the INVITE message from the SIP server not		
	non-registered SIP server	registered for the machine.		
	0: Answer	1: This does not receive the INVITE message from the SIP server		

	1: Not answer	not registered for the machine and send a refusal message.
5	ECM communication setting	0: This does not limit the type of the image compression with ECM
	0: No limit for image compression	communication.
	1: Limit for image compression	1: When the other end machine is Ciscco, this permits the image
		compression other than JBIG or MMR with ECM communication.
6-7	Not used	Do not change these settings.

IP F	IP Fax Switch 03 (SP No. 1-111-004)			
No.	Function	Comments		
0	Effective field limitation for G3 standard	Limits the effective field for standard G3 function		
	function information	information.		
	0: OFF, 1: 4byte (DIS)			
1	Switching between G3 standard and G3	Enables/disables switching between G3 standard and G3		
	non standard	non-standard.		
	0: Enable switching			
	1: G3 standard only			
2	Not used	Do not change this setting.		
3	ECM frame size selection at transmitting	Selects the ECM frame size for sending.		
	0: 256byte, 1: 64byte			
4	DIS detection times for echo prevention	Sets the number of times for DIS to detect echoes.		
	0: 1 time, 1: 2 times			
5	CTC transmission selection	When "0" is selected, the transmission condition is decided		
	0: PPRx1	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 negative	Selects whether to shift down when negative codes are		
	code	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 se	tting for tran	smissi	on (kbps)	Sets the modem bit rate for transmission. The default
	Bit 3	Bit	Bit 1	Bit	kbps	is "0110" (14.4K bps).
		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 set	ting for	r transmissio	n		Sets the modem type for transmission.
	Bit 5	Bi	it 4	Т	ypes	The default is "00" (V29).
	0	0		V	29	
	0	1		V	17	
	1	0		N	ot used	
	1	1		N	ot used	]
6-7	Not used					Do not change these settings.

IP Fa	ax Switch 06 (SP No. 1-111-007)						
No.	Function			С	omments		
0-3	Modem bit rate setting for reception						
	Sets the mo	dem bit rate f	for reception. T	he default i	s "0110" (14.4K bps).		
4-7	Modem set	ting for recep	tion				
	Sets the mo	dem type for	reception. The	default is "	0100" (V27ter, V29, V17).		
	Bit 7 Bit 6 Bit 5 B			Bit 4	t 4 Types		
	0 0 0		1	V.27ter			
	0	0	1	0	0 V.27ter, V.29		
	0	0	1	1	V.27ter, V.29, V.33		
	0	1	0	0	0 V.27ter, V.29, V.17/V.33		
	Other settin	igs - 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 same
	0: 1 time, 1: 2 times	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 spaces.
	0: Not transmitted	
	1: Transmitted	
6-7	Not used	Do not change these settings.

IP Fa	ax Swite	ch 08 (Sl	P No. 1	-111-009)
No.	Functi	on		Comments
0-1	T1 tim	er adjust	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	T4 tim	er adjust	tment	Adjust the T4 timer.
	Bit 3	Bit 2		The default is "00" (3 seconds).
	0	0	3 s	
	0	1	3.5	
			S	
	1	0	4 s	
	1	1	5 s	
4-5	T0 tim	er adjust	tment	Adjusts the fail safe timer. This timer sets the interval between "setup" data
	Bit 5	Bit 4		transmission and T.38 phase decision. If your destination return is late on the
	0	0	75 s	network or G3 fax return is late, adjust the longer interval timer.
	0	1	120	The default is "00" (75 seconds).
			s	
	1	0	180	
			s	
	1	1	240	
			s	
6-7	Not us	ed	D	o not change these settings.

IP Fax Switch 09 (SP No. 1-111-010)

No.	Functio	n		Comments
0	Network I/F setting for SIP			Selects the connection type (IPV4 or IPV6) to connect to the SIP
	connection so			server.
	0: IPv4			
	1: IPv6.			
1	Network	I/F setting	g for Fax	0: The I/F setting for fax communication follows the setting for SIP
	commun	ication		server connection.
	0: Same	setting as	SIP server	1: The negotiation between the SIP server and the device decides
	connecti	on		whether IPv4 or IPv6 is used for the I/F setting for fax
	1: Autor	natic settin	g	communication.
2	Record-	route settin	g	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	e		
3-4	re-INVI	ГЕ transmi	ssion delay	This changes the interval for transmit re-INVITE after receiving
	timer set	ting		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.	AX: Addin	g vender	0: Use this setting normally.
	informat	tion selection	on	1: This setting is used only when a customer wants to connect the
	0: Decla	re		machine with SIP server + VOIP-GW provided by AVAYA Inc.
	T38Ven	dorInfo=RI	СОН	
	1: Not d	eclare		
	T38Ven	dorInfo=RI	СОН	
6-7	Not used	1.		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)
<b>IP Fax Switch 0C</b> - 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.	o. 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.

Note

• 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 directly into		
		NCU parameters	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 detected	1	SP2-103-007
				The setting must not be zero.
07	680577	Minimum required length of the first ring	20 ms	See Note B.
				SP2-103-008
08	680578	Minimum required length of the second	20 ms	SP2-103-009
		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 DO	1 ms	See Notes A, D and E. SP2-103-012
		relay and opening the OHDI relay		
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 closure	1 ms	EU only.
		and DO relay opening or closing		SP2-103-015
				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 at		SP2-103-017
		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 signals	-N x 0.5	SP2-103-020
		while dialing	-3.5 dBm	See Note C.
20	680553	Tone attenuation value difference between	-dBm x	SP2-103-021
		high frequency tone and low frequency	0.5	The setting must be less than –
		tone in DTMF signals		5dBm, and should not exceed the
				setting at 680552h above.
				See Note C.
21	680554	PSTN: DTMF tone attenuation level after	-N x 0.5	SP2-103-022
		dialling	-3.5 dBm	See Note C.
22	680555	ISDN: DTMF tone attenuation level after	-dBm x	SP2-103-023

dialling 0.5 See Note C.
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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.

# Service RAM Addresses

#### 🔂 Important 🔵

• 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)

102

- 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 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.
<b>↓</b>	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>↓</b> 1	↓ 1	↓ 1	↓ 0	↓ 14 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 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

#### Vote

• 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

108

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

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) 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
- 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, 0x64, 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**

- **<u>1.</u>** Set the bit 0 of System Bit Switch 00 to 1.
- 2. 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.
- **<u>4.</u>** 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.
- 5. 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.

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

4	Bit4	Bit3	Bit2	Bit1	Bit0		contains errors, the signal level may be inappropriate.
	0	0	0	0	0	0	Adjust the Tx level for communications with that terminal
	0	0	0	0	1	-1	until the results are better.
	0	0	0	1	0	-2	If the setting is "Disabled", the NCU parameter 01 setting is
	0	0	0	1	1	-3	used.
	0	0	1	0	0	-4	♦ Note
	$\rightarrow$	$\rightarrow$	→	→	$\checkmark$	$\downarrow$	• Do not use settings other than listed on the left.
	0	1	1	1	1	-15	
	1	1	1	1	1	Disabled	
5-	Cable equalizer						Use a higher setting if there is signal loss at higher
7	Bit 7:	0, Bit	6: 0, B	it 5: 0 =	= None	:	frequencies because of the length of wire between the
	Bit 7:	0, Bit	6: 0, B	it 5: 1 =	= Low		modem and the telephone exchange when calling the
	Bit 7:	0, Bit	6: 1, B	it 5: 0 =	= Medi	um	number stored in this Quick/Speed Dial.
	Bit 7:	0, Bit	6: 1, B	it 5: 1 =	= High		Also, try using the cable equalizer if one or more of the
	Bit 7:	1, Bit	6: 1, B	it 5: 1 =	= Disał	oled	following symptoms occurs.
							Communication error with error codes such as 0-20, 0-23,
							etc.
							Modem rate fallback occurs frequently.
							♦ Note
							• Do not use settings other than listed on the left.
							If the setting is "Disabled", the bit switch setting is used.

Swit	Switch 02						
No	FUN	CTIO	N			COMMENTS	
0-	Initia	Initial Tx modem rate				If training with a particular remote terminal always takes too long,	
3	Bit3	Bit2	Bit1	Bit0	bps	the initial modem rate may be too high. Reduce the initial Tx	
	0	0	0	0	Not	modem rate using these bits.	
					used	For the settings 14.4 or kbps slower, Switch 04 bit 4 must be	
	0	0	0	1	2400	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 the	
	0	1	0	0	9600	setting is "Disabled", the bit switch setting is used.	
	0	1	0	1	12000		
	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-	Not u	ised				Do not change the settings.
7						

Swit	Switch 03				
No	FUNCTION	COMMENTS			
0-	Inch-mm conversion	If "inch only" is selected on the machine uses inch-based resolutions for			
1	before tx	scanning, the printed copy may be slightly distorted at the other end if that			
	Bit 1: 0, Bit 0: 0	machine uses mm-based resolutions.			
	= Inch-mm conversion	If the setting is "Inch-mm conversion available ", Inch-mm conversion become			
	available	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-up			
3	method	protocol at the start of transmission. The machine will then wait for the second			
	Bit 3: 0, Bit 2: 0	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 rate			
	0: Off	(14,400 bps or lower), disable V.8 protocol so as not to use V.34 protocol.			
	1: Disabled	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 terminal			
	available in transmit	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 a
7	transmission	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 protocol and JBIG compression are automatically disabled
	Bit 7: 1, Bit 6: 0 = Not	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).

Swit	tch 00	
No	FUNCTION	COMMENTS
0	MH Compression mode for e-mail	Switches MH compression on and off for files attached to e-
	attachments	mails for sending.
	<b>0</b> : Off	
	1: On	
1	MR Compression mode for e-mail	Switches MR compression on and off for files attached to e-
	attachments	mails for sending.
	<b>0</b> : Off	
	1: On	
2	MMR Compression mode for e-mail	Switches MMR compression on and off for files attached to e-
	attachments	mails for sending.
	<b>0</b> : 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 Bits 00,
	compression method of e-mail	01, 02 above. The "1" selection ignores the selections of Bits

attachments	00, 01, 02.
<b>0</b> : Registered (Bit 0 to 6)	
1: No registration.	

Swit	tch 01	
No	FUNCTION	COMMENTS
0	Original width of e-mail attachment:	Sets the original width of the e-mail attachment as A4.
	A4	
	<b>0</b> : Off	
	1: On	
1	Original width of e-mail attachment:	Sets the original width of the e-mail attachment as B4.
	B4	
	<b>0</b> : Off	
	1: On	
2	Original width of e-mail attachment:	Sets the original width of the e-mail attachment as A3.
	A3	
	<b>0</b> : 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 Bits 00, 01,
	original size of e-mail attachments	02 above. The "1" selection ignores the selections of Bits 00, 01,
	<b>0</b> : Registered (Bit 0 to 6)	02.
	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 x100.		
	attachment: 200 x 100			
	<b>0</b> : Off			
	1: On			
1	Line resolution of e-mail	Sets the line resolution of the e-mail attachment as 200 x 200.		
	attachment: 200 x 200			
	<b>0</b> : Off			
	1: On			
2	Line resolution of e-mail	Sets the line resolution of the e-mail attachment as 200 x 400.		
	attachment: 200 x 400			
	<b>0</b> : 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 400.	
	attachment: 400 x 400		
	<b>0</b> : Off		
	1: On		
5-	Not used	Do not change these settings.	
6			
7	Designates the bits to reference for	The "0" selection (default) references the settings for Bits 00, 01,	
	original size of e-mail attachments	02, 04 above. The "1" selection ignores the selections of Bits 00,	
	<b>0</b> : Registered (Bit 0 to 6)	01, 02, 04.	
	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 flag	
	selection	("0"), this machine determines them as full mode standard machines.	
	0: Full mode address	• This machine attaches the "demand of reception confirmation" to a message	
	1: No full mode	when transmitting.	
	(simple mode)	• This machine updates the reception capability to the address book when	
		receiving.	
1-	Not used	Do not change these settings.	
7			

Switch 05			
No FUNCTION		COMMENTS	
0	Directr transmission selection to SMTP	Allows or does not allow the direct transmission to SMTP	
	server	server.	
	0: ON		
	1: OFF		
1-	Not used	Do not change these settings.	
7			

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)

# 5. Specifications

# **General Specifications**

FCU			
Standard:	Group 3		
<b>Resolution:</b>	8 x 3.85 lines/mm, 200 x 100 dpi (Standard character)		
	8 x 7.7 lines/mm, 200 x 200 dpi (Detail character)		
Transmissio	3 seconds at 28,800 bps, Standard resolution (JBIG transmission: 2 seconds)		
n Time:			
Data	MH, MR, MMR, JBIG		
Compression			
:			
Maximum	Standard: A4 (SEF) or 8.5" x 14" (SEF)		
<b>Original</b> Custom: 216 mm x 600 mm (8.5" x 23.6")			
Size:			
Maximum	216 mm x 600 mm (8.5" x 23.6")		
Scanning			
Size:			
Print         LED alley and electro-photographic printing			
Process:			
Transmissio 33,600/31,200/28,800/26,400/24,000/21,600/19,200/16,800/14,400/12,000/9,600/			
n speed:	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

# Vote

• 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**

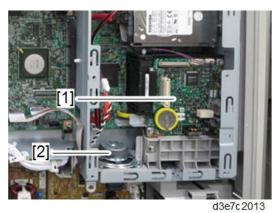
Network:	Standard: Ethernet interface (1000 Base-T/100 Base-TX/10 Base-T)			
	Optional: IEEE802.11a/b/g/n (Wireless LAN interface)			
Transmit function:	E-mail			
Scan line density:	• 200 × 100 dpi (Standard character)			
	• 200 × 200 dpi (Detail character)			
Original Size (Scanning	A4			
width):				
Communication Protocol:	Transmission: SMTP, TCP/IP			
	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 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-ma				
functions:	transmission. Memory transmission only.			
Internet Fax receive Automatic detection and printing of appended TIFF-F (MH) files and AS				
functions: text. Memory receptiononly.				

\*1 :Full mode

<b>IP-FAX Specifications</b>
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Network:	Standard: Ethernet interface (1000 Base-T/100 Base-TX/10 Base-T)		
	Optional: IEEE802.11a/b/g/n wireless LAN interface		
Scan line density:	8 x 3.85 lines/mm, 200 x 100 dpi (Standard character)		
	8 x 7.7 lines/mm, 200 x 200 dpi (Detail character)		
Maximum Original size:	Standard: A4 (SEF) or 8.5" x 14" (SEF)		
	Custom: 216 mm x 600 mm (8.5" x 23.6")		
Maximum scanning size:	216 mm x 600 mm (8.5" x 23.6")		
Transmission protocol:	Recommended: T.38, TCP, UDP/IP communication, SIP (RFC 3261 compliant),		
	H.323 v2		
Compatible machines: IP-Fax compatible machines			
<b>IP-Fax transmission</b> Specify an IP address and send faxes to an IP-Fax compatible fax through a			
function:	network.		
	Also capable of sending faxes to a G3 fax connected to a telephone line via a		
	VoIP gateway.		
IP-Fax reception function:	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



Component	Code	Callout	Remarks
FCU	D3E7	1	Included with the fax unit
Speaker		2	
Fax Connection Unit Type M28	D3E7	-	Optional
			This is used to set up the remote fax function.
Handset Type C5502	D645	-	Optional only for NA