# Fax Board Field Service Manual Ver 1.0

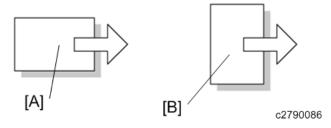
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# Symbols, Abbreviations

## Symbols, Abbreviations

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

Symbol	What it means
B	Clip ring
₽ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Screw
<b>F</b>	Connector
<b>S</b>	Clamp
<b>6</b> 20	E-ring
<b>6</b> 53	Flat Flexible Cable
	Timing Belt
SEF	Short Edge Feed
LEF	Long Edge Feed
К	Black
С	Cyan
M	Magenta
Υ	Yellow
B/W, BW	Black and White
FC	Full color



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

# **Table of Contents**

1.	Replacement and Adjustment	3
	Fax Board	3
	Speaker	5
2.	Detailed Section Descriptions	7
	Overview	7
3.	Service Tables	8
	Cautions	8
	Service Program Tables	9
	SP1-XXX (BIT Switches)	9
	SP2-XXX (RAM)	9
	SP3-XXX (Machine Set)	9
	SP4-XXX (ROM Versions)	10
	SP5-XXX (RAM Clear)	10
	SP6-XXX (Reports)	10
	SP7-XXX (Tests)	11
	Bit Switches – 1	13
	System Switches	13
	Bit Switches – 2	20
	I-Fax Switches	20
	Printer Switches	22
	Bit Switches – 3	26
	Communication Switches	26
	Bit Switches – 4	31
	G3 Switches	31
	Bit Switches – 5	38
	Bit Switches – 6	39
	NCU Parameters	40
	NCU Parameters	40
	Service RAM Addresses	45
	Service RAM Addresses	45
4.	Troubleshooting	54
	Error Codes	54
	Fax Connection Unit Error Codes	71
	Error Code - 01	71
	Error Code - 02	71
	Error Code - 03	71
	Error Code - 04	72

	Error Code - 05	. 72
	Error Code - 06	
	Error Code - 07	. 72
	Error Code - 08	
	IFAX Troubleshooting	
5.	Specifications	. 75
	General Specifications	. 75
	Capabilities of Programmable Items	. 76

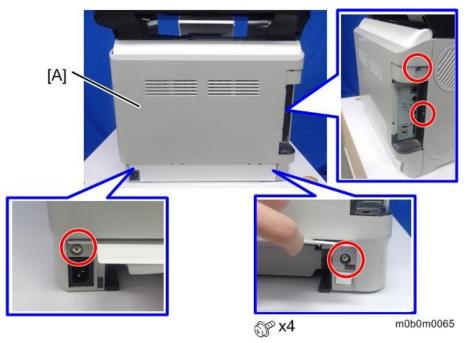
# 1. Replacement and Adjustment

# **Fax Board**

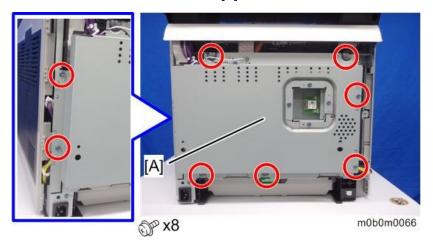
The user information stored in the DRAM is shifted to eMMC on the controller board. There are no additional procedures and special tools after replacing the fax board.

1. Remove the rear cover [A].

The lower screws are round screws.

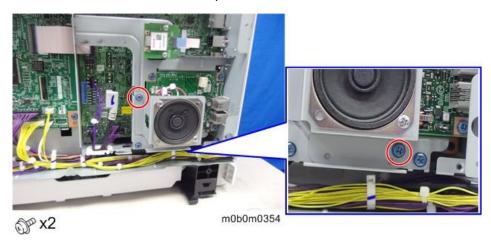


**2.** Remove the controller box cover [A].

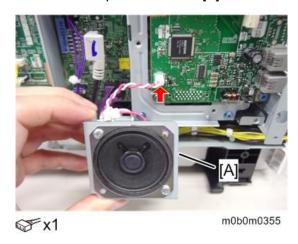


# 1.Replacement and Adjustment

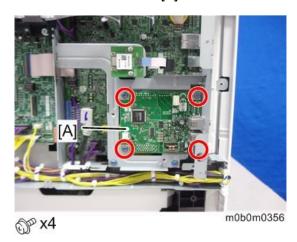
**3.** Remove the two screws of the speaker bracket.



**<u>4.</u>** Remove the speaker bracket [A].



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



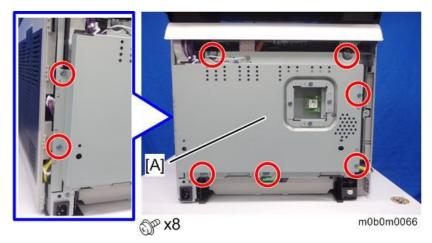
# **Speaker**

1. Remove the rear cover [A].

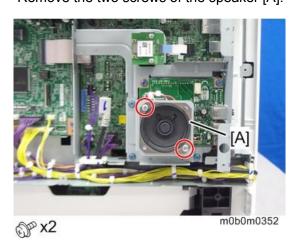
The lower screws are round screws.



**2.** Remove the controller box cover [A].

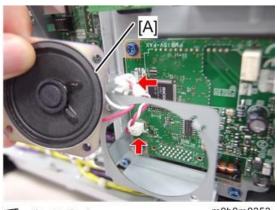


3. Remove the two screws of the speaker [A].



## 1.Replacement and Adjustment

# **<u>4.</u>** Disconnect the connector and remove the speaker [A].



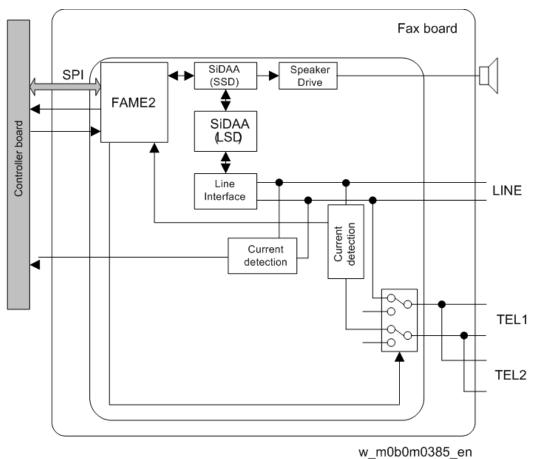
**\$** x1, **₹** x1

m0b0m0353

# 2. Detailed Section Descriptions

## **Overview**

Together with the controller board, the fax board controls all the fax communications and fax features. The fax board also contains the NCU circuit.



Compared with conventional machines, FACE (Fax Application Control Engine) and the memory storage (SAF) which had been on the FCU are shifted to the sGW controller board.

#### Modem (FAME2)

V.34, V33, V17, V.29, V.27ter, V.21, and V.8

## **Cautions**

#### ( Important

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



The main power LED lights or flashes while the platen cover or SPDF 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 Program Tables**

## SP1-XXX (BIT Switches)

1	Mode No.		Function
101	System Switch		
	001 – 032	00 – 1F	Change the bit switches for system settings for the fax functions.
			"Bit Switches - 1" : "System Switches"
102	Ifax Switch		
	001 – 016	00 – 0F	Change the bit switches for internet fax settings for the fax functions.
			"Bit Switches - 2": "I-Fax Switches"
103	Printer Switch		
	001 – 016	00 – 0F	Change the bit switches for printer settings for the fax functions.
			"Bit Switches - 2": "Printer Switches"
104	Communication Switch		
	001 – 032	00 – 1F	Change the bit switches for communication settings for the fax functions.
			"Bit Switches - 3" : "Communication Switches"
105	G3-1 Switc	h	
	001 – 016	00 – 0F	Change the bit switches for the protocol settings of the standard G3.
			"Bit Switches - 4": "G3 Switches"

## SP2-XXX (RAM)

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

## SP3-XXX (Machine Set)

3	Mode No.		Function
102	Serial N	lumber	
	001		Enter the fax unit's serial number.
103	PSTN-1	Port Settings	

	001	Select Line	Select the line type setting for the G3-1 line. If the machine is
			installed on a PABX line, select "PABX", "PABX (GND)" or "PABX
			(FLASH)".
	002	PSTN Access	Enter the PSTN access number for the
		Number	G3-1 line.
	003	Memory Lock	Not used
		Disabled	
201	FAX SV	V	
	001 –	00 – 1F	
	032		

# SP4-XXX (ROM Versions)

4	Mode No.		Function
102	001	Error Codes	Displays the latest 64 fax error codes.

# SP5-XXX (RAM Clear)

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

# SP6-XXX (Reports)

6	Mode No.	Function
101	System Parameter List	

	004		Touch the "ON!" hutten to maint the sustain assessment that	
100	001   -		Touch the "ON" button to print the system parameter list.	
102		Service Monitor Report		
	001   -		Touch the "ON" button to print the service monitor report.	
103	G3 F	G3 Protocol Dump List		
	002	G3-1 (All	Prints the protocol dump list of all communications for the G3-1	
		Communications)	line.	
	003	G3-1	Prints the protocol dump list of the last communication for the G3-	
		(1 Communication)	1 line.	
105	All Fi	iles print out		
	001	-	Prints out all the user files in the SAF memory, including	
			confidential messages.	
			<b>U</b> 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	Jouri	nal 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				
	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		
	010	Coarmor Condition		

## 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

#### ( Important

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

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

#### System Switches

Sys	System Switch 00 (SP No. 1-101-001)		
No	Function	Comments	
0-	Not used	Do not change these settings.	
4			
5	G3 communication	This is a fault-finding aid. The LCD shows the key parameters (see	
	parameter display	"G3 Communication Parameters" below this table). This is normally	
	0: Disabled	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	content of the transmitted facsimile protocol signals. Always reset	
	communication	this bit to 0 after finishing testing.	
	0: Off	If system switch 09 bit 6 is at "1", the list is only printed if there was	
	1: On	an error during the communication.	
7	Not used	Do not change the setting.	

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

Sys	System Switch 02 (SP No. 1-101-003)		
No	Function	Comments	
0-	Not used	Do not change these settings.	
1			
2	Forced reset after	With this setting on, the machine resets itself automatically if a	
	transmission stalls	transmission stalls and fails to complete the job.	
	0: Off		
	1: On		
3-	Not used	Do not change these settings.	
7			

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

System Switch 04 - Not used (Do not change the factory settings.)
System Switch 05 - Not used (Do not change the factory settings.)
System Switch 06 - Not used (Do not change the factory settings.)
System Switch 07 - Not used (Do not change the factory settings.)
System Switch 08 - Not used (Do not change the factory settings.)

Sys	System Switch 09 (SP No. 1-101-010)				
No	Function	Comments			
0	Not used	Do not change the setting.			
1	Print timing of communication	0: The Journal is printed only when image data is sent.			
	reports on the Journal when no	1: The Journal is printed when any data is sent.			
	image data was exchanged.				
	0: After DCS/NSS communication				
	(default),				
	1: After polling				
2	Automatic error report printout	0: Error reports will not be printed.			
	0: Disabled 1: Enabled	1: Error reports will be printed automatically after failed			
		communications.			
3	Printing of the error code on the	1: Error codes are printed on the error reports.			
	error report	This can be used for detecting an error which occurs			
	0: No 1: Yes	rarely.			
4	Not used	Do not change this setting.			
5	Power failure report	1: A power failure report will be automatically printed			
	0: Disabled	after the power is turned ON if a fax message			
	1: Enabled (default)	disappeared from the memory when the power was			
		turned off last.			
		NOTE: If "0" is selected, no reports are printed and no			
		one may recognize that fax data is gone due to a power			
		failure.			
6	Conditions for printing the protocol	This switch becomes effective only when system switch			
	dump list	00 bit 6 is set to 1.			
	0: Print for all communications	1: Set this bit to 1 when you wish to print a protocol			
	1: Print only when there is a	dump list only for communications with errors.			
	communication error	NOTE: The memory size is limited. Use this bit switch			
		only when some log reports are necessary.			
7	Not used	Do not change this setting.			

# System Switch 0A (SP No. 1-101-011)

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

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

Sys	System Switch 0E (SP No. 1-101-015)		
No	Function	Comments	
0-	Not used	Do not change these settings.	
2			
3	Action when the external	0: Manual TX is possible while the external handset is off-hook.	
	handset goes off-hook	However, manual TX during handset off-hook may not be sent to a	
	0: Manual TX and RX	correct direction. Manual TX is not possible.	
	operation	1: The display stays in standby mode even when the external	
	1: Memory TX and RX	handset is used, so that other people can use the machine for	
	operation (the display	memory TX operation. Note that manual TX and RX are not possible	
	remains the same)	with this setting.	
4-	Not used	Do not change these settings.	
7			

Sys	System Switch 0F (SP No. 1-101-016)			
No	Function		Comments	
0	Country/area code for		This country/area code determines the factory settings of bit	
to	functional settings (Hex)		switches and RAM addresses. However, it has no effect on the	
7	00: France 12: Asia		NCU parameter settings and communication parameter RAM	
	01:	13: Japan	addresses.	

Germany		Cross reference
02: UK	14: Hong	NCU country code:
	Kong	SP No. 2-103-001 for G3-1
03: Italy	15: South	
	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:	1C: Korea	
Sweden		
0B: Switz.	1D: Brazil	
0C:	20: Turkey	
Portugal		
0D: Holland	21: Greece	
0E: Spain	22: Hungary	
0F: Israel	23: Czech	
10:	24: Poland	
11: USA		

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

Sys	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	customer considers to be important (G3 transmissions).		
	data	NOTE: If "1" is selected, it is possible that sent data is		
	1: Printed before the data	printed on two sheets of paper.		
	leading edge			
1-	Not used	Do not change these settings.		

2		
3	TTI used for broadcasting	1: The TTI (TTI_1 or TTI_2) which is selected for all
	0: The TTIs selected for each	destinations during broadcasting.
	Quick/Speed dial are used	
	1: The same TTI is used for all	
	destinations	
4-	Not used	Do not change these settings.
7		

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

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

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

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

	1	0	1 hour	
	1	1	24 hours	
6-	Not used			Do not change
7				

System Switch 16 - Not used (do not change these settings)
System Switch 17 - Not used (do not change these settings)
System Switch 18 - Not used (do not change these settings)
System Switch 19 - Not used (do not change these settings)
System Switch 1A - Not used (do not change these settings)
System Switch 1B - Not used (do not change these settings)
System Switch 1C - Not used (do not change these settings)

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

Sys	System Switch 1E (SP No. 1-101-031)			
No	Function	Comments		
0	Communication after the	0: When this switch is on and the journal history becomes full, the		
	Journal data storage area	next report prints. If the journal history is not deleted, the next		
	has become full	transmission cannot be received. This prevents overwriting		
	0: Impossible	communication records before the machine can print them.		
	1: Possible	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-	Not used	Do not change these settings.		
2				
3	File No. printing	1: File numbers are not printed on any reports.		

	0: Enabled	NOTE: The file numbers may not be printed in the sequential
	1: Disabled	order. If a customer does not like this numbering, select "0".
4-	Not used	Do not change these settings.
7		

Sys	System Switch 1F (SP No. 1-101-032)		
No	Function	Comments	
0	Trace log function	0: Enable	
		1: Disable	
1-	Not used	Do not change these settings.	
6			
7	Action when a fax SC	0: When the fax unit detects a fax SC code other than SC1201 and	
	has occurred	SC1207, the fax unit automatically resets itself.	
	0: Automatic reset	1: When the fax unit detects any fax SC code, the fax unit stops.	
	1: Fax unit stops	Reference:	
		For fax SC codes, see "Troubleshooting".	

## Bit Switches - 2



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

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

#### **I-Fax Switches**

#### I-fax Switch 00 Not used (do not change the settings)

I-fax	I-fax Switch 01 (SP No. 1-102-002)			
No	Function	Comments		
0-	Not used	Do not change these settings.		
6				
7	mm/inch	This setting selects mm/inch conversion for mail transmission.		
		0: Off (No conversion), 1: On (Conversion)		
		When on (set to "1"), the machine converts millimeters to inches for sending mail.		
		There is no switch for converting inches to millimeters.		
		Unlike G3 fax transmissions which can negotiate between sender and receiver to		
		determine the setting, mail cannot negotiate between terminals; the mm/inch		
		selection is determined by the sender fax.		
		When this switch is Off (0):		
		Images scanned in inches are sent in inches.		
		Images scanned in mm are sent in mm.		
		Images received in inches are transmitted in inches.		
		Images received in mm are transmitted in mm.		
		When this switch is On (1):		
		Images scanned in inches are sent in inches.		
		Images scanned in mm are converted to inches.		
		Images received in inches are transmitted in inches.		
		Images received in mm are converted to inches.		

I-fax Switch 02 - Not used (do not change these settings)

**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 CSI registered on this machine or the CSI of the originator			
	is used in the subject lines of transferred documents.			
	0: Puts the CSI of the originator in the Subject line. Only CSI can be received for use in the			
	subject line.			
	1: Puts the CSI registered on this machine in the Subject line.			
	When this switch is used to transfer and deliver mail to a PC, the information in the Subject line			
	that indicates where the transmission originated can be used to determine automatically the			
	destination folder for each e-mail.			
1-7	Not Used			

I-fax	I-fax Switch 05 (SP No. 1-102-006)		
No	Function	Comments	
0	Mail Addresses of SMTP Broadcast Recipients		
	Determines whether the e-mail addresses of the destinations that receive transmissions		
	broadcasted using SMTP protocol are recor	ded in the Journal.	
	For example:		
	"1st destination + Total number of destination	ns: 9" in the Journal indicates a broadcast to 9	
	destinations.		
	0: Not recorded		
	1: Recorded		
1	IFAXTX Retries		
	Determines whether the machine retries sending IFAX when connection and transmission fails		
	due to errors.		
	0: Disabled		
	1: Enabled		
2	Selects whether to enable or disable the siz	e adjustment function in the main scanning	
	direction when sending TIFF files to e-mail or folder destinations.		
	0: OFF (Disabled) Size adjustment is not performed. (Normal operation)		
	1: ON (Enabled) Size adjustment is perform	ed.	
3-7	Not Used		

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

## I-fax Switch 09 (SP No. 1-102-010)

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

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

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

# Printer Switch 01 - Not used (do not change the settings)

## Printer Switch 02 - Not used (do not change the settings)

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

<sup>\*</sup> This setting can be used for the client machine which has no Fax board.

11113	s setting can be used for the client machine which has no Fax board.					
Prin	Printer Switch 04 (SP No. 1-103-005)					
No	Function			Comments		
0	Maximum reducible length when ler			ngth reduction is enabled with switch 03-0 above.		
to	[Maximum redu	ıcible length] = [F	Paper I	ength] + (N x 5mi	m)	
4	"N" is the decin	nal value of the b	inary s	setting of bits 0 to	4.	
	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Setting
	0	0	0	0	0	0 mm
	0	0	0	0	1	5 mm
	0	0	1	0	0	20 mm
	1	1	1	1	1	155 mm
	For A5 sideways and B5 sideways paper					
	[Maximum reducible length] = [Paper length] + 0.75 x (N x 5mm)					
5	Length of the duplicated image on the next page, when page separation has taken place.			has taken place.		
6	Bit 6		Bit 5		Setting	
	0		0		4 mm	
	0		1		10 mm	
	1 0 15 mm					

	1	1	Not used
7	Not used.	Do not change the setting.	

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

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

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

Prin	Printer Switch 07 (SP No. 1-103-008)		
No	Function	Comments	
0	Not used.	Do not change the settings.	
1	Selects whether or not to print at a reduced size (95%)	0:OFF	
	when printing on sheets with the width of letter-size	1:ON	
	paper.		
2-	Not used.	Do not change the settings.	
3			
4	Receiver name printed on the transmission result report	Selects the printing target on the	
		transmission result report.	
		0: All receivers	
		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)

## Printer Switch 0E (SP No. 1-103-015)

No	Function			Comments
0*	Paper size selection priority		selection priority	0: A paper size that has the same width as the received data is
	0: Width			selected first.
	1: Length			1: A paper size which has enough length to print all the
				received lines without reduction is selected first.
1*	Pape	er size	selected for	This switch determines which paper size is selected for
	print	ing A4	width fax data	printing A4 width fax data, when the machine has both A4 and
	0: 8.	5" x 1′	I" size	8.5" x 11" size paper.
	1: A4	4 size		
2	Page	e sepa	ration	1: If all paper sizes in the machine require page separation to
	0: Er	nabled		print a received fax message, the machine does not print the
	1: Di	isable	t	message (Substitute Reception is used).
				After a larger size of paper is set in a cassette, the machine
				automatically prints the fax message.
3-	Print	ting the	e sample image on	"Same size" means the sample image is printed at 100%,
4	repo	rts		even if page separation occurs.
	Bit	Bit Bit Setting		User Parameter Switch 19 (13H) bit 4 must be set to "0" to
	4	4 3		enable this switch.
	0	0	The upper half	Refer to "Detailed Descriptions" for more details.
			only	
	0	1	50% reduction	
			(sub-scan only)	
	1	0	Same size	
	1 1 Not used		Not used	
5-	Not used			Do not change the settings.
6				
7	Equalizing the reduction ratio		the reduction ratio	0: When page separation has taken place, all the pages are
	among separated pages			reduced with the same reduction ratio.
	(Pag	je Sep	aration)	1: Only the last page is reduced to fit the selected paper size
	0: Er	nabled		when page separation has taken place. Other pages are
	1: Di	isable	t	printed without reduction.

<sup>\*</sup> This setting can be used for the client machine which has no fax board.

Printer Switch 0F - Not used (do not change the settings)

## Bit Switches - 3



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

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

#### **Communication Switches**

Communication Switch 00 (SP No. 1-				-104-001)
No	Function			Comments
0-	Compression modes available		modes available	These bits determine the compression capabilities to be
1	in receive mode		ode	declared in phase B (handshaking) of the T.30 protocol.
	Bit 1 Bit 0 Modes		Modes	
	0	0	MH only	
	0	1 MH/MR		
	1	0	MH/MR/MMR	
	1	1	Do not change	
2-	Compression modes available		modes available	These bits determine the compression capabilities to be used
3	in trar	nsmit m	ode	in the transmission and to be declared in phase B
	Bit 3	Bit 2	Modes	(handshaking) of the T.30 protocol.
	0	0	MH only	1
	0	1	MH/MR	
	1	0	MH/MR/MMR	
	1	1	Do not change	
4-	Not used			Do not change the settings.
7				

Con	Communication Switch 01 (SP No. 1-104-002)				
No	Function			Comments	
0	ECM			If this bit is set to 0, ECM is switched off for all communications.	
	0: Off 1: On			In addition, V.8 protocol is switched off automatically.	
1-	Not used			Do not change the setting.	
5					
6-	Maximum printable page		ntable page	The setting determined by these bits is informed to the transmitting	
7	length available		ble	terminal in the pre-message protocol exchange (in the DIS/NSF	
	Bit 7	Bit 6	Setting	frames).	

0	0	No limit
0	1	B4 (364
		mm)
1	0	A4 (297
		mm)
1	1	Not used

Con	Communication Switch 02 (SP No. 1-104-003)				
No	Function	Comments			
0	G3 Burst error threshold	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	If the error line ratio for a page exceeds the acceptable ratio, RTN			
	line ratio	will be sent to the other er	nd.		
	0: 5% 1: 10%				
2	Treatment of pages	0: Pages received with en	rors are not printed.		
	received with errors				
	during G3 reception				
	0: Deleted from memory				
	without printing				
	1: Printed				
3-	Not used	Do not change these setti	ngs.		
7					

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

Communication Switch 04 - Not used (do not change the settings)
Communication Switch 05 - Not used (do not change the settings)

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 - Not used (do not change the settings)			

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

Communication Switch 0B (SP No. 1-104-012)			
No Function Comments		Comments	
0-3	Not used	Do not change these settings.	
4-7	Not used	Do not change the settings.	

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

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

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

7	automatic dialing attempts	(e.g., 06(H) = 12 s)
		This value is the minimum time that the machine waits
		before it dials the next destination.

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

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

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

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

## **Communication Switch 13** – Not used (do not change the settings.)

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

0	) 1 inch
1	0 mm and inch
1	I 1 Not used

Communication Switch 15 – Not used (do not change the settings)
Communication Switch 16 – Not used (do not change the settings)
Communication Switch 17 – Not used (do not change the settings)
Communication Switch 18 – Not used (do not change the settings)
Communication Switch 19 - Not used (do not change the settings)
Communication Switch 1A - Not used (do not change the settings)

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

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

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

## Bit Switches - 4

#### () Important

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

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

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

## G3 Switch 02 (Do not change this setting.)

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	
	(Echo countermeasure)	frame twice.	
	0: 1	1: Before sending DCS, the machine will wait for the	
	1: 2	second DIS which is caused by echo on the line.	
1	Not Used	Do not change the settings.	
2	Not Used	Do not change the settings.	
3	ECM frame size	Keep this bit at "0" in most cases.	
	0: 256 bytes		
	1: 64 bytes		
4	Not Used	Do not change the settings.	
5	Modem rate used for the next page	1: The machine's TX modem rate will fall back before	
	after receiving a negative code (RTN	sending the next page if a negative code is received.	
	or PIN)	This bit is ignored if ECM is being used.	
	0: No change 1: Fallback		
6	Not used	Do not change the settings	
7	Select detection of reverse polarity in	This switch is used to prevent reverse polarity in ringing	
	ringing	on the phone line (applied to PSTN-G3 ringing). Do not	
	0: Off	change this setting	
	1: On	0: No detection	
		1: Detection (Japan and Korea only)	

G3 Switch 04 (SP No. 1-105-005)			
No	Function	Comments	
0-	Training error	0 - F (Hex); 0 - 15 bits	
3	detection threshold	If the number of error bits in the received TCF is below this threshold,	
		the machine informs the sender that training has succeeded.	

4-	Not used	Do not change the settings.
7		

G3 :	Switch	05 (SI	P No.	1-105-0	06)	
No	Funct	ion				Comments
0-	Initial	Initial TX modem rate (kbps)		os)	These bits set the initial starting modem rate for	
3	Bit 3	Bit	Bit	Bit 0	kbps	transmission.
		2	1			Use the dedicated transmission parameters if you need to
	0	0	0	1	2.4	change this for specific receivers.
	0	0	1	0	4.8	If a modem rate 14.4 kbps or slower is selected, V.8
	0	0	1	1	7.2	protocol should be disabled manually.
	0	1	0	0	9.6	Cross reference
	0	1	0	1	12.0	V.8 protocol on/off - G3 switch 03, bit 2
	0	1	1	0	14.4	
	0	1	1	1	16.8	
	1	0	0	0	19.2	
	1	0	0	1	21.6	
	1	0	1	0	24.0	
	1	0	1	1	26.4	
	1	1	0	0	28.8	
	1	1	0	1	31.2	
	1	1	1	0	33.6	
	Other	setting	gs - N	lot used		
4-	Initial	moder	n typ	e for 9.6	k or 7.2	These bits set the initial modem type for 9.6 and 7.2 kbps, if
5	kbps.					the initial modem rate is set at these speeds.
	Bit 5	В	it S	Setting		
		4				
	0	0	١	V.29		
	0	1	١	V.17		
	1	0	١	V.34		
	1	1	1	Not used		
6-	Not us	sed				Do not change the settings.
7						

G3 S	G3 Switch 06 (SP No. 1-105-007)						
No	Function					Comments	
0-	Initial RX modem ra	te(kbp	s)			These bits set the initial starting modem rate for	
3	Bit 3	Bit	Bit	Bit	kbps	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,
0	0	1	1	7.2	V.8 protocol should be disabled manually.
0	1	0	0	9.6	Cross reference
0	1	0	1	12.0	V.8 protocol on/off - G3 switch 03, bit2
0	1	1	0	14.4	
0	1	1	1	16.8	
1	0	0	0	19.2	
1	0	0	1	21.6	
1	0	1	0	24.0	
1	0	1	1	26.4	
1	1	0	0	28.8	
1	1	0	1	31.2	
1	1	1	0	33.6	
Other settings - Not	used				

- 4- Modem types available for reception
- 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			
Other settings - Not us	Other settings - Not used						

G3 9	33 Switch 07 (SP No. 1-105-008)						
No	No Function			Comments			
0-	PSTN cable equalizer		equalizer	Use a higher setting if there is signal loss at higher frequencies			
1	(TX mode: Internal)		Internal)	because of the length of wire between the modem and the telephone			
	Bit	Bit	Setting	exchange.			
	1	0		Use the dedicated transmission parameters for specific receivers.			
	0	0	None	Also, try using the cable equalizer if one or more of the following			

	I _	1.	Ι.	
	0	1	Low	symptoms occurs.
	1	0	Medium	Communication error
	1	1	High	Modem rate fallback occurs frequently.
				<b>◆ Note</b>
				This setting is not effective in V.34 communications.
2-	PST	N cable	e equalizer	Use a higher setting if there is signal loss at higher frequencies
3	(RX	mode:	Internal)	because of the length of wire between the modem and the telephone
	Bit	Bit	Setting	exchange.
	3	2		Also, try using the cable equalizer if one or more of the following
	0	0	None	symptoms occurs.
	0	1	Low	Communication error with error codes such as 0-20, 0-23, etc.
	1	0	Medium	Modem rate fallback occurs frequently.
	1	1	High	<b>◆</b> Note
				This setting is not effective in V.34 communications.
4	PST	N cable	e equalizer	Keep this bit at "1".
	(V.8/	V.17 R	X mode:	
	Exte	rnal)		
	0: Di	sabled		
	1: Er	nabled		
5	Not ı	used		Do not change the settings.
6	Para	meter	selection	0: This uses the fixed table in the ROM for dial tone detection.
	for dial tone		<b>;</b>	1: This uses the specific parameter adjusted with SRAM (69ECBEH -
	detection			69ECDEH). Select this if the dial tone cannot be detected when the
	0: Normal parameter		arameter	"Normal parameter: 0" is selected.
		-	parameter	,
7	Not i			Do not change the settings.
<u>'</u>		u		20 not only the obtained.

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

G3 S	G3 Switch 0A (SP No. 1-105-011)					
No	Function			Comments		
0-	Maximum allowable		wable	These bits set the acceptable modem carrier drop time.		
1	carrier	carrier drop during image		Try a longer setting if error code 0-22 is frequent.		
	data reception		า			
	Bit 1	Bit 0	Value			
			(ms)			
	0	0	200			

	0	1	400	
	1	0	800	
	1	1	Not used	
2	Select	cancel	lation of	This switch setting determines if high-speed receiving ends if the
	high-s	peed R	X if carrier	carrier signal is lost when receiving during non-ECM mode
	signal	lost wh	ile receiving	
	0: Off			
	1: On			
3	Not us	ed		Do not change the settings
4	Maxim	num allo	owable	This bit set the maximum interval between EOL (end-of-line) signals
	frame	interva	l during	and the maximum interval between ECM frames from the other
	image	data re	eception.	end.
	0: 5 s	1: 13 s		Try using a longer setting if error code 0-21 is frequent.
5	Not us	ed		Do not change the settings.
6	Recon	structio	n time for	When the sending terminal is controlled by a computer, there may
	the fire	st line ir	n receive	be a delay in receiving page data after the local machine accepts
	mode			set-up data and sends CFR. This is outside the T.30
	0: 6 s 1: 12 s			recommendation. But, if this delay occurs, set this bit to 1 to give
				the sending machine more time to send data.
				Refer to error code 0-20.
				ITU-T T.30 recommendation: The first line should come within 5 s of
				CFR.
7	Not us	ed		Do not change the settings.

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

G3 S	G3 Switch 0E (SP No. 1-105-015)						
No	Function	Comments					
0-	Set CNG send time i	Set CNG send time interval					
7	Some machines on the receiving side may not be able to automatically switch the 3-second						
	CNG interval.	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 S	G3 Switch 0F (SP No. 1-105-016)							
No	Function	Comments						
0	Not used	Do not change these settings.						
1	Alarm when the handset is off-hook	If the customer wants to hear an alarm if the handset is						
	at the end of communication	off-hook at the end of fax communication, change this bit						
	0: Disabled	to "1".						
	1: Enabled							
2-	Not used	Do not change these settings.						
3								
4	Manual calibration setting	1: manually calibrates for communication with a line						
	0: Off	whose current change occurs such as an optical fiber line.						
	1: On							
5-	Not used	Do not change the settings.						
7								

# Bit Switches - 5

Not used. Do not change this bit switches.

# Bit Switches - 6

Not used. Do not change this bit switches.

#### **NCU Parameters**

#### **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); if SP2-103 can be used, this will be indicated in the Remarks column. The RAM is programmed in hex code unless (BCD) is included in the Unit column.



• The following addresses describe settings for the standard NCU.

Address	Function	Unit	Remarks
7EB52000	Country/Area code for NCU		Use the Hex value to program the
	parameters		country/area code directly into this
			address, or use the decimal value to
			program it using SP2-103-001
7EB520B4	PSTN: TX level from the modem	-N – 3	SP2-103-002 (parameter 01).
		dBm	
7EB52072	Acceptable ringing signal	1000/ N	SP2-103-003 (parameter 02).
	frequency: range 1, upper limit	(Hz)	
7EB52073	Acceptable ringing signal	1000/ N	SP2-103-004 (parameter 03).
	frequency: range 1, lower limit	(Hz)	
7EB52074	Acceptable ringing signal	1000/ N	SP2-103-005 (parameter 04).
	frequency: range 2, upper limit	(Hz)	
7EB52075	Acceptable ringing signal	1000/ N	SP2-103-006 (parameter 05).
	frequency: range 2, lower limit	(Hz)	
7EB52076	Number of rings until a call is	time(s)	SP2-103-007 (parameter 06).
	detected		The setting must not be zero.
7EB52077	Minimum required length of the	Nx	See Note 2.
	first ring	20ms	SP2-103-008 (parameter 07).
7EB52078	Minimum required length of the	Nx	SP2-103-009 (parameter 08).
	second and subsequent rings	20ms	
7EB52079	Ringing signal detection reset	Nx	SP2-103-010 (parameter 09).
	time (LOW)	20ms	
7EB5207A	Ringing signal detection reset	Nx	SP2-103-011 (parameter 10).
	time (HIGH)	20ms	
7EB5204A	Do not change the settings.		
7EB5204B	Break time for pulse dialing	ms	See Note 1.
			SP2-103-013 (parameter 12).

Address	Function	Unit	Remarks
7EB5204C	Make time for pulse dialing	ms	See Note 1.
			SP2-103-014 (parameter 13).
7EB5204D	Do not change the settings.		
7EB5204E	Minimum pause between dialed	Nx	See Note 1 and 4. SP2-103-016
	digits (pulse dial mode)	20ms	(parameter 15).
7EB5204F	Time waited when a pause	Nx	SP2-103-017 (parameter 16).
	isentered at the operation panel	20ms	See Note 1.
7EB52050	DTMF tone on time	ms	SP2-103-018 (parameter 17).
7EB52051	DTMF tone off time	ms	SP2-103-019 (parameter 18).
7EB52052	Tone attenuation level of DTMF	dBm	SP2-103-020 (parameter 19).
	signals while dialing	(See	See Note 3.
		Note 5)	
7EB52053	Tone attenuation value difference	dBm	SP2-103-021 (parameter 20).
	between high frequency tone and	(See	The setting must be less than –
	low frequency tone in DTMF	Note 5)	5dBm, and should not exceed the
	signals		setting at 7EB52052h above.
			See Note 3.
7EB52054	Do not change the settings.	-	
7EB52055	Do not change the settings.	-	
7EB971E8 to	Error code storage	-	
7EB973E7			
7EB93800 to	Communication history storage	-	
7EB96517			
7EB973E8 to	Communication error storage	-	
7EB982E7			

#### **NOTES**

- 1. Pulse dial parameters (addresses 7EB5204A to 7EB5204F) are the values for 10 pps. If 20 pps is used, the machine automatically compensates.
- 2. The first ring may not be detected until 1 to 2.5 wavelengths after the time specified by this parameter.
- 3. The calculated level must be between 0 and 10.

The attenuation levels calculated from RAM data are:

High frequency tone:

- $-0.5 \times N_{7EB52052}/_{7EB52054}-3.5 \text{ dBm}$
- − 0.5 x N<sub>7EB52055</sub> dBm

Low frequency tone:

•  $-0.5 \text{ x} (N_{7EB52052}/_{7EB52054} + N_{7EB52053}) -3.5 \text{ dBm}$ 

 $-0.5 x (N_{7EB52055} + N_{7EB52053}) dBm$ 



- N<sub>7EB52052</sub>, for example, means the value stored in address 7EB52052(H)
- 4. 7EB5204A, 7EB5204D, 7EB5204E: The actual inter-digit pause (pulse dial mode) is the sum of the period specified by the RAM addresses 7EB5204A, 7EB5204D, and 7EB5204E.

#### **Default Values**

#### **Country Code [HEX]**

00 : FRANCE	12 : ASIA
01 : GERMANY	13 : JAPAN
02 : UK	14 : HONGKONG
03 : ITALY	15 : S.AFRICA
04 : AUSTRIA	16 : AUSTRALIA
05 : BELGIUM	17 : NEW ZEALAND
06 : DENMARK	18 : SINGAPORE
07 : FINLAND	19 : MALAYSIA
08 : IRELAND	1A: CHINA
09 : NORWAY	1B : FORMOSA
0A : SWEDEN	1C : KOREA
0B : SWITZERLAND	1D : BRAZIL
0C : PORTUGAL	20 : TURKEY
0D : NETHERLAND	21 : GREECE
0E : SPAIN	22 : HUNGARY
0F: ISRAEL	23 : CZECH
11 : USA	24 : POLAND

Address								Countr	y Code	[HEX]							
	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	11
	Defa	Default [DEC]															
7EB52000	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17
7EB520B4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
7EB52072	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	16	13
7EB52073	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	83
7EB52074	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
7EB52075	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7EB52076	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1
7EB52077	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
7EB52078	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Address								Countr	y Code	[HEX]							
7EB52079	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	144	144
7EB5207A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7EB5204A	67	50	252	58	53	61	53	61	255	61	100	60	61	58	75	61	77
7EB5204B	69	62	69	62	62	69	69	62	69	62	62	62	69	62	69	62	62
7EB5204C	31	38	31	38	38	31	31	38	31	38	38	38	31	38	31	38	40
7EB5204D	45	4	4	4	10	10	10	10	10	10	30	20	10	2	35	10	74
7EB5204E	40	46	27	40	44	32	26	40	30	33	18	31	35	33	32	46	46
7EB5204F	33	46	33	150	46	26	26	60	33	33	26	0	33	33	100	101	101
7EB52050	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7EB52051	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7EB52052	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14
7EB52053	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4
7EB52054	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
7EB52055	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34

Address								Counti	y Code	: [HEX]							
	12	13	14	15	16	17	18	19	1A	1B	1C	1D	20	21	22	23	24
	Defa	ılt [DE	C]					•				•			•	•	
7EB52000	18	19	20	21	22	23	24	25	26	27	28	29	32	33	34	35	36
7EB520B4	9	8	9	9	11	10	6	8	13	10	9	7	8	8	8	8	6
7EB52072	17	28	17	17	14	17	17	17	17	13	13	13	13	13	13	13	17
7EB52073	80	72	80	80	80	80	80	80	80	80	83	80	80	80	80	80	80
7EB52074	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
7EB52075	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7EB52076	1	1	1	3	3	4	1	1	1	1	2	2	2	2	2	2	1
7EB52077	10	8	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10
7EB52078	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
7EB52079	144	144	144	144	144	144	144	144	144	144	144	244	244	244	244	244	144
7EB5207A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7EB5204A	61	77	61	61	255	252	61	61	61	77	77	53	252	252	58	252	61
7EB5204B	59	67	66	71	91	65	66	66	62	64	67	64	69	62	69	62	69
7EB5204C	40	33	34	29	13	34	34	34	38	32	33	36	31	38	31	38	31
7EB5204D	10	74	50	50	30	25	50	50	10	74	74	10	4	4	2	4	50
7EB5204E	36	46	36	42	24	25	36	36	36	46	46	44	27	27	33	34	36
7EB5204F	101	101	101	101	101	101	101	101	101	101	101	26	33	33	33	155	101
7EB52050	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7EB52051	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Address		Country Code [HEX]															
7EB52052	14	20	14	19	16	16	11	14	12	10	14	16	13	13	13	13	11
7EB52053	4	4	4	4	2	2	4	4	4	4	4	4	5	5	5	5	4
7EB52054	34	22	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
7EB52055	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34

# **Service RAM Addresses**

#### Service RAM Addresses

#### ( Important

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

Address	Descriptions	Byte	Туре	Default
7eb50000H	Machine code	1	HEX	01
7eb50001H	ROM version (Read only)	1	BCD	
7eb50002H	Year of the ROM update	1	BCD	
7eb50003H	Month of the ROM update	1	BCD	
7eb50004H	Day of the ROM update	1	BCD	
7eb50005H	Machine code (check ram2)	1	HEX	01
7eb50006H	Machine's serial number (16 digits - ASCII)	16	ASC	00
7eb50016H	Language code	1	HEX	
	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			
7eb50018H	Total program checksum (low)	2	HEX	
7eb50020H	System bit switch 00	1		
7eb50021H	System bit switch 01	1		
7eb50022H	System bit switch 02	1		
7eb50023H	System bit switch 03	1		
7eb50024H	System bit switch 04	1		
7eb50025H	System bit switch 05	1		
7eb50026H	System bit switch 06	1		
7eb50027H	System bit switch 07	1		
7eb50028H	System bit switch 08	1		
7eb50029H	System bit switch 09	1		
7eb5002aH	System bit switch 0a	1		
7eb5002bH	System bit switch 0b	1		
7eb5002cH	System bit switch 0c	1		
7eb5002dH	System bit switch 0d	1		
7eb5002eH	System bit switch 0e	1		
7eb5002fH	System bit switch 0f	1		
7eb50030H	System bit switch 10	1		

Address	Descriptions	Byte	Туре	Default
7eb50031H	System bit switch 11	1		
7eb50032H	System bit switch 12	1		
7eb50033H	System bit switch 13	1		
7eb50034H	System bit switch 14	1		
7eb50035H	System bit switch 15	1		
7eb50036H	System bit switch 16	1		
7eb50037H	System bit switch 17	1		
7eb50038H	System bit switch 18	1		
7eb50039H	System bit switch 19	1		
7eb5003aH	System bit switch 1a	1		
7eb5003bH	System bit switch 1b	1		
7eb5003cH	System bit switch 1c	1		
7eb5003dH	System bit switch 1d	1		
7eb5003eH	System bit switch 1e	1		
7eb5003fH	System bit switch 1f	1		
7eb50050H	Printer bit switch 00	1		
7eb50051H	Printer bit switch 01	1		
7eb50052H	Printer bit switch 02	1		
7eb50053H	Printer bit switch 03	1		
7eb50054H	Printer bit switch 04	1		
7eb50055H	Printer bit switch 05	1		
7eb50056H	Printer bit switch 06	1		
7eb50057H	Printer bit switch 07	1		
7eb50058H	Printer bit switch 08	1		
7eb50059H	Printer bit switch 09	1		
7eb5005aH	Printer bit switch 0a	1		
7eb5005bH	Printer bit switch 0b	1		
7eb5005cH	Printer bit switch 0c	1		
7eb5005dH	Printer bit switch 0d	1		
7eb5005eH	Printer bit switch 0e	1		
7eb5005fH	Printer bit switch 0f	1		
7eb50060H	Communication bit switch 00	1		
7eb50061H	Communication bit switch 01	1		
7eb50062H	Communication bit switch 02	1		
7eb50063H	Communication bit switch 03	1		
7eb50064H	Communication bit switch 04	1		
7eb50065H	Communication bit switch 05	1		

Address	Descriptions	Byte	Туре	Default
7eb50066H	Communication bit switch 06	1		
7eb50067H	Communication bit switch 07	1		
7eb50068H	Communication bit switch 08	1		
7eb50069H	Communication bit switch 09	1		
7eb5006aH	Communication bit switch 0a	1		
7eb5006bH	Communication bit switch 0b	1		
7eb5006cH	Communication bit switch 0c	1		
7eb5006dH	Communication bit switch 0d	1		
7eb5006eH	Communication bit switch 0e	1		
7eb5006fH	Communication bit switch 0f	1		
7eb50070H	Communication bit switch 10	1		
7eb50071H	Communication bit switch 11	1		
7eb50072H	Communication bit switch 12	1		
7eb50073H	Communication bit switch 13	1		
7eb50074H	Communication bit switch 14	1		
7eb50075H	Communication bit switch 15	1		
7eb50076H	Communication bit switch 16	1		
7eb50077H	Communication bit switch 17	1		
7eb50078H	Communication bit switch 18	1		
7eb50079H	Communication bit switch 19	1		
7eb5007aH	Communication bit switch 1a	1		
7eb5007bH	Communication bit switch 1b	1		
7eb5007cH	Communication bit switch 1c	1		
7eb5007dH	Communication bit switch 1d	1		
7eb5007eH	Communication bit switch 1e	1		
7eb5007fH	Communication bit switch 1f	1		
7eb50080H	G3 bit switch 00	1		
7eb50081H	G3 bit switch 01	1		
7eb50082H	G3 bit switch 02	1		
7eb50083H	G3 bit switch 03	1		
7eb50084H	G3 bit switch 04	1		
7eb50085H	G3 bit switch 05	1		
7eb50086H	G3 bit switch 06	1		
7eb50087H	G3 bit switch 07	1		
7eb50088H	G3 bit switch 08	1		
7eb50089H	G3 bit switch 09	1		
7eb5008aH	G3 bit switch 0a	1		

Address	Descriptions	Byte	Туре	Default
7eb5008bH	G3 bit switch 0b	1		
7eb5008cH	G3 bit switch 0c	1		
7eb5008dH	G3 bit switch 0d	1		
7eb5008eH	G3 bit switch 0e	1		
7eb5008fH	G3 bit switch 0f	1		
7eb500b0H	Design SW 00: Not used	1		
7eb500b1H	Design SW 01: Not used	1		
7eb500b2H	Design SW 02 : Not used	1		
7eb500b3H	Design SW 03: Not used	1		
7eb500b4H	Design SW 04 : Not used	1		
7eb500b5H	Design SW 05 : Not used	1		
7eb500b6H	Design SW 06 : Not used	1		
7eb500b7H	Design SW 07 : Not used	1		
7eb500b8H	Design SW 08: Not used	1		
7eb500b9H	Design SW 09: Not used	1		
7eb500baH	Design SW 0a: Not used	1		
7eb500bbH	Design SW 0b: Not used	1		
7eb500bcH	Design SW 0c: Not used	1		
7eb500bdH	Design SW 0d: Not used	1		
7eb500beH	Design SW 0e: Not used	1		
7eb500bfH	Design SW 0f: Not used	1		
7eb500c0H	Design SW 10: Not used	1		
7eb500c1H	Design SW 11: Not used	1		
7eb500c2H	Design SW 12: Not used	1		
7eb500c3H	Design SW 13: Not used	1		
7eb500c4H	Design SW 14: Not used	1		
7eb500c5H	Design SW 15: Not used	1		
7eb500c5H	Design SW 16: Not used	1		
7eb500c7H	Design SW 17: Not used	1		
7eb500c8H	Design SW 18: Not used	1		
7eb500c9H	Design SW 19: Not used	1		
7eb500caH	Design SW 1a: Not used	1		
7eb500cbH	Design SW 1b: Not used	1		
7eb500ccH	Design SW 1c: Not used	1		
7eb500cdH	Design SW 1d: Not used	1		
7eb500ceH	Design SW 1e: Not used	1		
7eb500cfH	Design SW 1f: Not used	1		

Address	Descriptions	Byte	Туре	Default
	For details about user SW, see the User Manual			
	"Parameter Settings" in "Fax".			
7eb500d0H	User Switch 00	1		
7eb500d1H	User Switch 01	1		
7eb500d2H	User Switch 02	1		
7eb500d3H	User Switch 03	1		
7eb500d4H	User Switch 04	1		
7eb500d5H	User Switch 05	1		
7eb500d6H	User Switch 06	1		
7eb500d7H	User Switch 07	1		
7eb500d8H	User Switch 08	1		
7eb500d9H	User Switch 09	1		
7eb500daH	User Switch 0a	1		
7eb500dbH	User Switch 0b	1		
7eb500dcH	User Switch 0c	1		
7eb500ddH	User Switch 0d	1		
7eb500deH	User Switch 0e	1		
7eb500dfH	User Switch 0f	1		
7eb500e0H	User Switch 10	1		
7eb500e1H	User Switch 11	1		
7eb500e2H	User Switch 12	1		
7eb500e3H	User Switch 13	1		
7eb500e4H	User Switch 14	1		
7eb500e5H	User Switch 15	1		
7eb500e6H	User Switch 16	1		
7eb500e7H	User Switch 17	1		
7eb500e8H	User Switch 18	1		
7eb500e9H	User Switch 19	1		
7eb500eaH	User Switch 1a	1		
7eb500ebH	User Switch 1b	1		
7eb500ecH	User Switch 1c	1		
7eb500edH	User Switch 1d	1		
7eb500eeH	User Switch 1e	1		
7eb500efH	User Switch 1f	1		
7eb500f0H	User Switch 20	1		
7eb500f1H	User Switch 21	1		
7eb500f2H	User Switch 22	1		

Address	Descriptions	Byte	Туре	Default
7eb500f3H	User Switch 23	1		
7eb500f4H	User Switch 24	1		
7eb500f5H	User Switch 25	1		
7eb500f6H	User Switch 26	1		
7eb500f7H	User Switch 27	1		
7eb500f8H	User Switch 28	1		
7eb500f9H	User Switch 29	1		
7eb500faH	User Switch 2a	1		
7eb500fbH	User Switch 2b	1		
7eb500fcH	User Switch 2c	1		
7eb500fdH	User Switch 2d	1		
7eb500feH	User Switch 2e	1		
7eb500ffH	User Switch 2f	1		
7eb50130H	Service (SCU) Switch 00	1		
7eb50131H	Service (SCU) Switch 01	1		
7eb50132H	Service (SCU) Switch 02	1		
7eb50133H	Service (SCU) Switch 03	1		
7eb50134H	Service (SCU) Switch 04	1		
7eb50135H	Service (SCU) Switch 05	1		
7eb50136H	Service (SCU) Switch 06	1		
7eb50137H	Service (SCU) Switch 07	1		
7eb50138H	Service (SCU) Switch 08	1		
7eb50139H	Service (SCU) Switch 09	1		
7eb5013aH	Service (SCU) Switch 0a	1		
7eb5013bH	Service (SCU) Switch 0b	1		
7eb5013cH	Service (SCU) Switch 0c	1		
7eb5013dH	Service (SCU) Switch 0d	1		
7eb5013eH	Service (SCU) Switch 0e	1		
7eb5013fH	Service (SCU) Switch 0f	1		
7eb50140H	Service (SCU) Switch 10	1		
7eb50141H	Service (SCU) Switch 11	1		
7eb50142H	Service (SCU) Switch 12	1		
7eb50143H	Service (SCU) Switch 13	1		
7eb50144H	Service (SCU) Switch 14	1		
7eb50145H	Service (SCU) Switch 15	1		
7eb50146H	Service (SCU) Switch 16	1		
7eb50147H	Service (SCU) Switch 17	1		

Address	Descriptions	Byte	Туре	Default
7eb50148H	Service (SCU) Switch 18	1		
7eb50149H	Service (SCU) Switch 19	1		
7eb5014aH	Service (SCU) Switch 1a	1		
7eb5014bH	Service (SCU) Switch 1b	1		
7eb5014cH	Service (SCU) Switch 1c	1		
7eb5014dH	Service (SCU) Switch 1d	1		
7eb5014eH	Service (SCU) Switch 1e	1		
7eb5014fH	Service (SCU) Switch 1f	1		
7eb50150H	Service (SCU) Switch 20	1		
7eb50151H	Service (SCU) Switch 21	1		
7eb50152H	Service (SCU) Switch 22	1		
7eb50153H	Service (SCU) Switch 23	1		
7eb50154H	Service (SCU) Switch 24	1		
7eb50155H	Service (SCU) Switch 25	1		
7eb50156H	Service (SCU) Switch 26	1		
7eb50157H	Service (SCU) Switch 27	1		
7eb50158H	Service (SCU) Switch 28	1		
7eb50159H	Service (SCU) Switch 29	1		
7eb5015aH	Service (SCU) Switch 2a	1		
7eb5015bH	Service (SCU) Switch 2b	1		
7eb5015cH	Service (SCU) Switch 2c	1		
7eb5015dH	Service (SCU) Switch 2d	1		
7eb5015eH	Service (SCU) Switch 2e	1		
7eb5015fH	Service (SCU) Switch 2f	1		
7eb50160H	Service (SCU) Switch 30	1		
7eb50161H	Service (SCU) Switch 31	1		
7eb50162H	Service (SCU) Switch 32	1		
7eb50163H	Service (SCU) Switch 33	1		
7eb50164H	Service (SCU) Switch 34	1		
7eb50165H	Service (SCU) Switch 35	1		
7eb50166H	Service (SCU) Switch 36	1		
7eb50167H	Service (SCU) Switch 37	1		
7eb50168H	Service (SCU) Switch 38	1		
7eb50169H	Service (SCU) Switch 39	1		
7eb5016aH	Service (SCU) Switch 3a	1		
7eb5016bH	Service (SCU) Switch 3b	1		
7eb5016cH	Service (SCU) Switch 3c	1		

Address	Descriptions	Byte	Туре	Default
7eb5016dH	Service (SCU) Switch 3d	1		
7eb5016eH	Service (SCU) Switch 3e	1		
7eb5016fH	Service (SCU) Switch 3f	1		
7eb50170H	IFAX Switch 00	1		
7eb50171H	IFAX Switch 01	1		
7eb50172H	IFAX Switch 02	1		
7eb50173H	IFAX Switch 03	1		
7eb50174H	IFAX Switch 04	1		
7eb50175H	IFAX Switch 05	1		
7eb50176H	IFAX Switch 06	1		
7eb50177H	IFAX Switch 07	1		
7eb50178H	IFAX Switch 08	1		
7eb50179H	IFAX Switch 09	1		
7eb5017aH	IFAX Switch 0a	1		
7eb5017bH	IFAX Switch 0b	1		
7eb5017cH	IFAX Switch 0c	1		
7eb5017dH	IFAX Switch 0d	1		
7eb5017eH	IFAX Switch 0e	1		
7eb5017fH	IFAX Switch 0f	1		
7eb50190H	TTI (Max. 64 characters - ASCII) information	64	ASC	0
7eb501d0H	Printing format for TTI	1	HEX	0
	0: DOM (Japan), 1:EXP (Export)			
7eb501d2H	CSI code (Max. 20 characters - ASCII)	20	ASC	0
7eb501e6H	CSI characters (Hex)	1	HEX	00
7eb5020cH	Registered service station's fax number			
7eb5022cH	Registered own fax number for extension			
7eb50236H	Registered own fax number for outside call			
7eb50240H	Transmission monitor volume			
7eb50241H	Reception monitor volume			
7eb50242H	On-hook monitor volume			
7eb50243H	Dialing monitor volume			
7eb50244H	Buzzer volume			
7eb50245H	Beeper volume			
7eb52ba0H	Transmission counter			
7eb52ba4H	Reception counter			
7eb53f68H	Dial tone detection parameter	11		
to				

Address	Descriptions	Byte	Туре	Default
7eb53f72H				
7eb52000H	Start address of G3 table for G3-1			
7eb5216eH	Lateset information of Power Failure Report	8	HEX	00
7eb5218cH	Machine code (check ram3)			
7eb52246H	Modem version (G3-1)	2	HEX	
7eb522daH	Machine code(check ram4)	1	HEX	1
7eb522feH	Machine's serial number	11	ASC	0

## **Error Codes**

If an error code is displayed, retry communication. If the same problem occurs, try to fix the problem as suggested below.



Error codes appear 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	Check the connection.
	Start being pressed	The other party may be incompatible.
		Replace the fax board, or the controller board.
		Check for DIS/NSF with an oscilloscope.
		If the RX signal is weak, there may be a bad
		connection.
0-01	DCN received unexpectedly	The other party is out of paper or has a paper
		jam.
		The other party pressed the Stop button during
		communication.
0-03	Incompatible modem at the other end	The other party is incompatible.
0-04	CFR or FTT not received after	Check the connection.
	modem training	Try changing the TX level and/or cable equalizer
		settings.
		Replace the fax board, or the controller board.
		The other machine may be defective. Try
		sending to another machine.
		If the RX signal is weak or defective, there may
		be a bad connection.
		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 connection.
	down to 2400 bps.	Try adjusting the TX level and/or cable equalizer.
		Replace the fax board, or the controller board.
		Check for line problems.
		Reference:

Code	Meaning	Suggested Cause/Action
		See error code 0-04.
0-06	The other terminal did not reply to	Check the connection.
	DCS	Try adjusting the TX level and/or cable equalizer
		settings.
		Replace the fax board, or the controller board.
		The other end may be defective or incompatible;
		try sending to another machine.
		Check for line problems.
		Reference:
		See error code 0-04.
0-07	No post-message response from the	Check the connection.
	other end after a page was sent	Replace the fax board, or the controller board.
		The other party is out of paper or has a paper
		jam.
		The other party may have disconnected the call.
		Check for a bad line.
		The other machine may be defective. Try
		sending to another machine.
0-08	The other end sent RTN or PIN after	Check the connection.
	receiving a page, because there	Replace the fax board, or the controller board.
	were too many errors	The other end may have jammed, or run out of
		paper or memory space.
		Try adjusting the TX level and/or cable equalizer settings.
		The other end may have a defective modem/fax
		board/controller board, try sending to another
		machine.
		Check for line problems and noise.
		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	Incompatible or defective remote terminal; try
	response code received	sending to another machine.
		Noisy line; resend.
		Try adjusting the TX level and/or cable equalizer
		settings.

Code	Meaning	Suggested Cause/Action
		Replace the fax board, or the controller board.
		Reference:
		See error code 0-08.
0-15	The other terminal is not capable of	The other party is unable to accepting the following
	specific functions.	functions, or the other party's memory is full.
		Confidential RX
		Transfer function
		SEP/SUB/PWD/SID
0-16	CFR or FTT not detected after	Check the connection.
	modem training in confidential or	Replace the fax board, or the controller board.
	transfer mode	Try adjusting the TX level and/or cable equalizer settings.
		The other machine may have disconnected, or it
		may be defective. Try sending to another
		machine.
		If the ax signal level is too low, there may be a
		line problem.
		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	Check the connection.
	s of retraining	Replace the fax board, or the controller board.
		Check for line problems.
		Try calling another fax machine.
		Try adjusting the reconstruction time for the first
		line and/or RX cable equalizer setting.
		Reference:
		Reconstruction time - G3 Switch 0A, Bit 6
		Rx cable equalizer - G3 Switch 07 (PSTN)
0-21	EOL signal (end-of-line) from the	Check the connection between the fax board
	other end not received within 5 s of	and line.
	the previous EOL signal	Check for line noise or other line problems.
		Replace the fax board, or the controller board.
		The remote machine may be defective or may
		have been disconnected.
		Reference:

Code	Meaning	Suggested Cause/Action
		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 connection.
	interrupted for more than the	Replace the fax board, or the controller board.
	acceptable modem carrier drop time	The remote machine may be defective.
	(default: 200 ms)	Check for line noise or other line problems.
		Try adjusting the acceptable modem carrier drop
		time.
		Reference:
		Acceptable modem carrier drop time: G3 Switch 0A,
		Bits 0 and 1
0-23	Too many errors during reception	Check the connection.
		Replace the fax board, or the controller board.
		The remote machine may be defective.
		Check for line noise or other line problems.
		Try asking the other party to adjust their TX
		level.
		Try adjusting the RX cable equalizer setting
		and/or RX error criteria.  Reference:
		Rx cable equalizer: G3 Switch 07 (PSTN)
		Rx error criteria: Communication Switch 02, Bits 0
		and 1
0-29	Data block format failure in ECM	Check for line noise or other line problems.
	reception	Replace the fax board, or the controller board.
0-30	The other terminal did not reply to	Check the 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.
		Reference:
		Dedicated TX parameters - Section 4
0-32	The other terminal sent a DCS,	Check the protocol dump list.
	which contained functions that the	Ask the other party to contact the manufacturer.
	receiving machine cannot handle.	
0-33	The data reception (not ECM) is not	Check the connection.
	completed within 10 minutes.	The other terminal may have a defective
		modem.
0-52	Polarity changed during	Check the connection.

Code	Meaning	Suggested Cause/Action
	communication	Retry communication.
0-55	Fax function does not detect the	Fax firmware or board defective.
	SG3.	SG3 firmware or board defective.
0-56	The stored message data exceeds	SG3 firmware or board defective.
	the capacity of the mailbox in the	
	SG3.	
0-70	The communication mode specified	The other terminal did not have a compatible
	in CM/JM was not available	communication mode (e.g., the other terminal
	(V.8 calling and called terminal)	was a V.34 data modem and not a fax modem.)
		A polling TX file was not ready at the other
		terminal when polling RX was initiated from the
		calling terminal.
0-74	The calling terminal fell back to T.30	The calling terminal could not detect ANSam due
	mode, because it could not detect	to noise, etc.
	ANSam after sending CI.	ANSam was too short to detect.
		Check the connection. and condition.
		Try making a call to another V.8/V.34 fax.
0-75	The called terminal fell back to T.30	The terminal could not detect ANSam.
	mode, because it could not detect a	Check the connection. and condition.
	CM in response to ANSam (ANSam	Try receiving a call from another V.8/V.34 fax.
	timeout).	
0-76	The calling terminal fell back to T.30	The called terminal could not detect a CM due to
	mode, because it could not detect a	noise, etc.
	JM in response to CM	Check the 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	noise, etc.
	CJ in response to JM	A network that has narrow bandwidth cannot
	(JM timeout).	pass JM to the other end.
		Check the 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
	timeout in V.34 phase 2 – line	phases. Serious noise, narrow bandwidth, or low
	probing.	signal level can cause these errors.
0-81	The line was disconnected due to a	If these errors happen at the transmitting terminal:

Code	Meaning	Suggested Cause/Action
	timeout in V.34 phase 3 – equalizer	Try making a call later.
	training.	Try using V.17 or a slower modem using
0-82	The line was disconnected due to a	dedicated TX parameters.
	timeout in the V.34 phase 4 – control	Try increasing the TX level.
	channel start-up.	Try adjusting the TX cable equalizer setting.
0-83	The line was disconnected due to a	If these errors happen at the receiving terminal:
	timeout in the V.34 control channel	Try adjusting the RX cable equalizer setting.
	restart sequence.	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 main power switch, and then turn it
	control channel start-up.	back on.
		If the same error is frequent, replace the fax
0.05	The Property of the Control of the C	board, or the controller board.
0-85	The line was disconnected due to	The signal did not stop within 10 s.  The signal did not stop within 10 s.  The signal did not stop within 10 s.
	abnormal signaling in V.34 control channel restart.	Turn off the main power switch, and then turn it back on.
	Chamilei restart.	
		If the same error is frequent, replace the fax board, or the controller board.
0-86	The line was disconnected because	The other terminal was incompatible.
	the other terminal requested a data	Ask the other party to contact the manufacturer.
	rate using MPh that was not	, to the control party to control and manufacture.
	available in the currently selected	
	symbol rate.	
0-87	The control channel started after an	The receiving terminal restarted the control
	unsuccessful primary channel.	channel because data reception in the primary
		channel was not successful.
		This does not result in an error communication.
0-88	The line was disconnected because	Try using a lower data rate at the start.
	PPR was transmitted/received 9	Try adjusting the cable equalizer setting.
	(default) times within the same ECM	
	frame.	
2-11	Only one V.21 connection flag was	Replace the fax board, or the controller board.
	received	
2-12	Modem clock irregularity	Replace the fax board, or the controller board.
2-13	Modem initialization error	Turn off the machine, and then turn it back on.

Code	Meaning	Suggested Cause/Action
		Update the modem ROM.
		Replace the fax board, or the controller board.
2-51	The machine resets itself because of	If this is frequent, update the ROM, or replace
	a fatal communication error	the fax board, or the controller board.
2-53	Snd msg() in the manual task is an	The user did the same operation many times,
	error because the mailbox for the	and this gave too much load to the machine.
	operation task is full.	
4-01	Line current was cut	Check the line connector.
		Check for line problems.
		Replace the fax board, or the controller board.
4-10	Communication failed because of an	Get the ID Codes the same and/or the CSIs
	ID Code mismatch (Closed Network)	programmed correctly, and then resend.
	or Tel. No./CSI mismatch (Protection	The machine at the other end may be defective.
	against Wrong Connections)	
5-00	Data reconstruction not possible	Replace the fax board, or the controller board.
5-10	DCR timer expired	Replace the fax board, or the controller board.
5-20	Storage impossible because of a lack	Temporary memory shortage.
	of memory	Test the SAF memory.
5-21	Memory overflow	
5-23	Print data error when printing a	Test the SAF memory.
	substitute RX or confidential RX	Ask the other end to resend the message.
	message	
5-25	SAF file access error	Replace the fax board, or the controller board.
6-00	G3 ECM - T1 time out during	Try adjusting the RX cable equalizer.
	reception of facsimile data	Replace the fax board, or the controller board.
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 connection.
		Check for a bad line or defective remote
		terminal.
		Replace the fax board, or the controller board.
6-05	G3 ECM - facsimile data frame not	Check the connection.
	received within 18 s of CFR, but	Check for a bad line or defective remote
	there was no line fail	terminal.
		Replace the fax board, or the controller board.
		Try adjusting the RX cable equalizer

Code	Meaning	Suggested Cause/Action
		Reference:
		RX cable equalizer - G3 Switch 07 (PSTN)
6-06	G3 ECM - coding/decoding error	Replace the fax board, or the controller board.
		The other terminal may be defective.
6-08	G3 ECM - PIP/PIN received in reply	The other end pressed Stop during
	to PPS.NULL	communication.
		The other terminal may be defective.
6-09	G3 ECM - ERR received	Check for a noisy line.
		Adjust the TX levels of the communicating
		machines.
		See code 6-05.
6-10	G3 ECM - error frames still received	Check for line noise.
	at the other end after all	Adjust the TX level (use NCU parameter 01 or
	communication attempts at 2400 bps	the dedicated TX parameter for that address).
		Check the connection.
		Defective remote terminal.
6-21	V.21 flag detected during high speed	The other terminal may be defective or
	modem communication	incompatible.
6-22	The machine resets the sequence	Check for line noise.
	because of an abnormal handshake	If the same error occurs frequently, replace the
	in the V.34 control channel	fax board, or the controller board.
		Defective remote terminal.
6-99	V.21 signal not stopped within 6 s	Replace the fax board, or the controller board.
9-30	HDD write error	Check the connection of the controller board
9-31	HDD control error	(eMMC).
9-32	HDD read error	If the problem persists, replace the controller
9-33	HDD fatal error	board (eMMC).
13-	SIP user name registration error	Double registration of the SIP user name.
17		Capacity for user-name registration in the SIP
		server is not sufficient.
13-	SIP server access error	Incorrect initial setting for the SIP server.
18		Defective SIP server.
13-	SIP authentication error	Registered password in the device does not
24		match the password in the SIP server.
13-	Network I/F setting error	IPV4 is not active in the active protocol setting.
25		IP address of the device is not registered.
13-	Network I/F setting error at power on	Active protocol setting does not match the I/F

Code	Meaning	Suggested Cause/Action		
26		setting for SIP server.		
		IP address of the device is not registered.		
13- 27	IP address setting error	IP address of the device is not registered.		
14- 00	SMTP Send Error	Error occurred during sending to the SMTP server. Occurs for any error other than 14-01 to 16. For example, the mail address of the system administrator is not registered.		
14- 01	SMTP Connection Failed	<ul> <li>Failed to connect to the SMTP server (timeout) because the server could not be found.</li> <li>The PC is not ready to transfer files.</li> <li>SMTP server not functioning correctly.</li> <li>The DNS IP address is not registered.</li> <li>Network not operating correctly.</li> <li>Destination folder selection not correct.</li> </ul>		
14-02	No Service by SMTP Service (421)	<ul> <li>SMTP server operating incorrectly or the destination for direct SMTP sending is not correct.</li> <li>Contact the system administrator and check that the SMTP server has the correct settings and operates correctly.</li> <li>Contact the system administrator for direct SMTP sending and check the sending destination.</li> </ul>		
14-03	Access to SMTP Server Denied (450)	<ul> <li>Failed to access the SMTP server because the access is denied.</li> <li>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.</li> <li>Folder send destination is incorrect. Contact the system administrator to determine that the SMTP server settings and path to the server are correct.</li> <li>Device settings incorrect. Confirm that the user name and password settings are correct.</li> <li>Direct SMTP destination incorrect. Contact the system administrator to determine if there is a</li> </ul>		

Code	Meaning		Suggested Cause/Action	
		problem at the destination and that the settings		
		at the	e destination are correct.	
14-	Access to SMTP Server Denied	• SMT	P server operating incorrectly	
04	(550)	Direc	ct SMTP sending not operating correctly	
14- 05	SMTP Server HDD Full (452)		ed to access the SMTP server because the on the server is full.	
		serve check SMT Insuff desti admiremational locate systems space the number of the control of th	fficient free space on the HDD of the SMTP er. Contact the system administrator and the kithe amount of space remaining on the P server HDD.  Ifficient free space on the HDD where the ination folder is located. Contact the system inistrator and check the amount of space aining on the HDD where the target folder is	
14-	User Not Found on SMTP Server	• The	designated user does not exist.	
06	(551)		designated user does not exist on the SMTP	
			designated address is not for use with direct P sending.	
14-	Data Send to SMTP Server Failed	• Faile	ed to access the SMTP server because the	
07	(4XX)	trans	smission failed.	
		• PC n	not operating correctly.	
		• SMT	P server operating incorrectly	
		<ul><li>Netw</li></ul>	vork not operating correctly.	
		<ul><li>Dest</li></ul>	ination folder setting incorrect.	
		• Direc	ct SMTP sending not operating correctly.	
14-	Data Send to SMTP Server Failed	• Faile	ed to access the SMTP server because the	
08	(5XX)	transmission failed.		
		• SMT	P server operating incorrectly	
	l		, 5	

Code	Meaning	Suggested Cause/Action			
		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 faile			
09	SMTP Server	Incorrect setting for file transfer			
14-	Addresses Exceeded	Number of broadcast addresses exceeded the			
10		limit for the SMTP server.			
14-	Buffer Full	The send buffer is full so the transmission could			
11		not be completed. Buffer is full due to using			
		Scan-to-Email while the buffer is being used			
		send mail at the same time.			
14-	Data Size Too Large	Transmission was cancelled because the			
12		detected size of the file was too large.			
14-	Send Cancelled	Processing is interrupted because the user			
13		pressed Stop.			
14-	Security Locked File Error	Update the software because of the defective			
14		software.			
14-	Mail Data Error	The transmitting a mail is interrupted via DCS			
15		due to the incorrect data.			
		Update the software because of the defective			
		software.			
14-	Maximum Division Number Error	When a mail is divided for the mail transmission			
16		and the division number of a mail are more than			
		the specified number, the mail transmission is			
		interrupted.			
		Update the software because of the defective			
		software.			
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 the administrator's e-mail address is same			
20		as the SMTP authentication address or POP before			
		SMTP address.			
14-	Transmission error of S/MIME	Register the correct user certificate and device			

Code	Meaning	Suggested Cause/Action		
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.		
		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.		
		Software error.		
14-	Cancelled the Mail Due to Error	Error detected with NFAX and send was		
32	Detected by NFAX	cancelled due to a software error.		
14-	No Mail Address For the Machine	Neither the mail address of the machine nor the		
33		mail address of the network administrator is		
		registered.		
14-	Address designated in the domain for	Operational error in normal mail sending or		
34	SMTP sending does not exist	direct SMTP sending.		
		Check the address selected in the address book		
		for SMTP sending.		
		Check the domain selection.		
14-	Mail Job Task Error	Due to a mail job task error, the send was cancelled:		
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		
60		the send operation.		
14-	Notification Mail Send Failed for All	All addresses for return notification mail failed.		
61	Destinations			
14-	Transmission Error due to the	When the 0 line page exists in received pages		
62	existence of zero line page	with G3 communication, the transmission is		
		interrupted.		
14-	Fax Communication Unit:	Check the following.		
63	Transmission Error	Name of SMTP server		

Code	Meaning	Suggested Cause/Action
		Port number of SMTP
		DNS setting
		Server name (FTP)
		Path name (computer name and shared folder
		name at SMTP/ NCP)
		Active protocol setting (Netware/ NCP)
		NW flame type (NCP)
		Log-on mode (NDS tree/ bindery)
-		Check the SMTP server.
		Check if the SMTP server works normally and is
		connected to the network.
		Check if the settings of the SMTP are correct.
-		Check the DNS server.
		Check if the DNS server works normally and is
		connected to the network.
		Check if the settings of the DNS server are
		correct.
-		Check the network.
		Check if the LAN works normally.
		Check if the no firewall exists.
-		Check the destination folder for the data transfer.
		Check if the destination folder works normally.
		Check if the settings of the destination folder are
		correct.
-		Ask an administrator of the direct SMTP server in
		which the data is supposed to be transferred.
		Check if the destination SMTP server works
		normally.
		Check if the settings of the destination SMTP
		server are correct.
15-	POP3/IMAP4 Server Not Registered	At startup, the system detected that the IP
01		address of the POP3/IMAP4 server has not been
		registered in the machine.
15-	POP3/IMAP4 Mail Account	The POP3/IMAP4 mail account has not been
02	Information Not Registered	registered.
15-	Mail Address Not Registered	The mail address has not been registered.
03		
15-	DCS Mail Receive Error	• Error other than 15-11 to 15-18.

Code	Meaning	Suggested Cause/Action
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.
		Network not operating correctly.
15-	Authorization Error	POP3/IMAP4 send authorization failed:
12		Incorrect IFAX user name or password.
		Another device, such as the PC, attempted
		access.
		POP3/IMAP4 settings incorrect.
15-	Receive Buffer Full	Occurs only during manual reception.
13		Transmission cannot be received due to
		insufficient buffer space. The buffer is being used
		for mail send or Scan-to-Email.
15-	Mail Header Format Error	The mail header is not standard format. For
14		example, the Date line description is incorrect.
15-	Mail Divide Error	The e-mail is not in standard format. There is 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
16		large.
15-	Receive Timeout	May occur during manual receiving only because
17		the network is not operating correctly.
15-	Incomplete Mail Received	Only one portion of the mail was received.
18		
15-	Final Destination for Transfer	The format of the final destination for the transfer
31	Request 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
41		exceeded the limit for the "Auth. E-mail RX"
		setting.
15-	Off Ramp Gateway Error	The delivery destination address was specified

Code	Meaning	Suggested Cause/Action			
42		with Off Ramp Gateway OFF.			
15-	Address Format Error	Format error in the address of the Off Ramp			
43		Gateway.			
15-	Addresses Over	The number of addresses for the Off Ramp			
44		Gateway exceeded the limit of 30.			
15-	Attachment File Format Error	The attached file is not TIFF format.			
61					
15-	TIFF File Compatibility Error	Could not receive transmission due to:			
62		Resolution error			
		Image of resolution greater than 200 dpi without			
		extended memory.			
		Resolution is not supported.			
		Page size error			
		The page size was larger than A3.			
		Compression error			
		File was compressed with other than MH, MR, or			
		MMR.			
15-	TIFF Parameter Error	The TIFF file sent as the attachment could not be			
63		received because the TIFF header is incorrect:			
		The TIFF file attachment is a type not supported.			
		The TIFF file attachment is corrupted.			
		Software error.			
15-	TIFF Decompression Error	The file received as an attachment caused the TIFF			
64		decompression error:			
		The TIFF format of the attachment is corrupted.			
		Software error.			
15-	Not Binary Image Data	The file could not be received because the			
71		attachment was not binary image data.			
15-	MDN Status Error	The disposition line in the header of the Return			
73		Receipt could not be found, or there is a problem			
		with the firmware.			
15-	MDN Message ID Error	Could not find the Original Message ID line in			
74		the header of the Return Receipt, or there is a			
		problem with the firmware.			
15-	Mail Job Task Read Error	Could not receive the transmission because the			
80		destination buffer is full and the destination could			
		not be created (this error may occur when			
		receiving a transfer request or a request for			

Code	Meaning	Suggested Cause/Action			
		notification of reception).			
15-	Repeated Destination Registration	Could not repeat receive the transmission			
81	Error	because the destination buffer is full and the			
		destination could not be created (this error may			
		occur when receiving a transfer request or a			
		request for notification of reception).			
15-	Send Registration Error	Could not receive the file for transfer to the final			
91		destination:			
		The format of the final destination or the transfer			
		destination is incorrect.			
		Destinations are full so the final and transfer			
		destinations could not be created.			
15-	Memory Overflow	Transmission could not be received because			
92		memory overflowed during the transaction.			
15-	Memory Access Error	Transaction could not complete due to a			
93		malfunction of SAF memory.			
15-	Incorrect ID Code	The machine rejected an incoming e-mail for			
94		transfer request, because the ID code in the			
		incoming e-mail did not match the ID code			
		registered in the machine.			
15-	Transfer Station Function	The machine rejected an incoming e-mail for			
95		transfer because the transfer function was			
		unavailable.			
16-	No IP address registered	The machine does not get an IP address			
00		because the DNS server has not been registered			
		for the remote machine or IP address of the			
		remote machine has not been registered.			
		Register the DNS server for the remote machine			
		or configure an IP address of the remote			
		machine.			
22-	Original length exceeded the	Divide the original into more than one page.			
00	maximum scan length	Check the resolution used for scanning. Lower			
		the scan resolution if possible.			
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 another			
		fax machine, if the machine's printer is busy or			
		out of order.			

Code	Meaning		Suggested Cause/Action
22-	TX or RX job stalled due to line	•	The job started normally but did not finish
02	disconnection at the other end		normally; data may or may not have been
			received fully.
		•	Restart the machine.
22-	The machine cannot store received	•	Update the ROM
04	data in the SAF	•	Replace the fax board, or the controller board.
22-	No G3 parameter confirmation	•	Update the ROM
05	answer	•	Replace the fax board, or the controller board.
23-	Data read timeout during	•	Restart the machine.
00	construction	•	Replace the fax board, or the controller board.
25-	The machine software resets itself	•	Update the ROM
00	after a fatal transmission error	•	Replace the fax board, or the controller board.
	occurred		
F0-	V.34 modem error	•	Replace the fax board, or the controller board.
xx			
F6-	SG3 modem error	•	Update the SG3 modem ROM.
xx		•	Replace the fax board, or the controller 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	Possible Causes	Troubleshooting Procedures	
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 is disconnected because of no response within	established.	
	a specified time.		
01(14)	Either this machine or the machine at the other end	Exit SP or initial settings.	
	has entered SP or Initial settings.	Wait until the connection	
	An established connection exists.	has finished.	

#### Error Code - 02

Error	Possible Causes			Troubleshooting Procedures	
Code					
02(5)	•	Wrong IP address/host name was used.	•	Enter the correct IP	
	The main power of the other machine at			address/host name	
		destination is OFF.	•	Turn ON the main power.	
	•	LAN cable is disconnected.	•	Connect the LAN cable	
	Network is rebooting.		•	Wait until rebooting has	
				finished.	

#### Error Code - 03

Error		Possible Causes	Troubleshooting Procedures		
Code					
03	•	No user authentication (i.e.	Configure the user authentication		
		Basic/Windows/LDAP/Custom Auth.) applies to	setting for client and remote		
		fax application.	machines as follows:		
	•	Settings other than user authentication are	Client Machine Remote Machine OFF OFF		
		applied to the fax application.			
			ON	OFF	
			ON ON		

#### Error Code - 04

Error	Possible Causes		Troubleshooting Procedures
Code			
04	Although the same user is registered on the remote	•	Register the same user to both
	machine and client machine, the user name and		the remote machine and client
	login password do not match.		machine.
		•	Make sure to match the
			username and login password.

#### Error Code - 05

Error Code	Possible Causes	Troubleshooting Procedures
05	An unauthorized user tried to connect.	Authorize the user to use fax connection.

#### Error Code - 06

Error	Possible Causes	Troubleshooting Procedures
Code		
06	Timeout error on the node	Adjust the value of SP5-741-001 to prolong the timeout
	authentication	for node authentication.

#### Error Code - 07

Error	Possible Causes	Troubleshooting Procedures
Code		
07	Multiple destinations are set in the	On the client machine, execute SP5-801-021 to
	client machine.	clear AICS memory

#### Error Code - 08

Error		Possible Causes		Troubleshooting Procedures
Code				
08(1)	•	A client machine connects to another	•	Connect to the remote machine.
		client machine.	•	Register the client machine to the
	•	The client machine is not registered on		remote machine as a destination.
		the remote machine as destinations.		
08(2)	•	A remote machine connects to another	•	Connect to the client machine.
		Remote Machine.	•	Check the remote machine
	•	The wrong remote machine is registered		registered on the client machine.
		on the client machine.		

# **IFAX Troubleshooting**

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

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

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

# 5. Specifications

# **General Specifications**

Type:	Desktop type transceiver
Circuit:	PSTN (max. 1ch.)
	PABX
Connection:	Direct couple
Maximum original	A4SEF, Letter SEF
size:	Custom: 216 × 600 mm (8.5 × 23.6 inches)
Maximum	216 × 600 mm (8.5 × 23.6 inches)
scanning size:	
Scanning	Flat bed, SPDF
Method:	
Resolution:	8 × 3.85 lines/mm, 200 × 100 dpi (Standard character)
	8 × 7.7 lines/mm, 200 × 200 dpi(Detail character)
Transmission	3 to 4 seconds at 28,800 bps (using ITU-T No.1 Chart, at a resolution of 200 ×
Time:	100
	dpi)
Data	MH, MR, MMR
Compression:	
Protocol:	Group 3 with ECM
Modulation:	V.34, V.33, V.17 (TCM), V.29 (QAM),
	V.27ter (PHM), V.8, V.21 (FSK)
Data Rate:	33,600/31,200/28,800/26,400/24,000/21,600/19,200/16,800/14,400/12,000/9,
	600/7,200/4,800/2,400 bps (auto shift down system)
I/O Rate:	With ECM: 0 ms/line
	Without ECM: 2.5, 5, 10, 20, or 40 ms/line
Memory	SAF: 2MB
Capacity:	Page Memory: 4MB

# **Capabilities of Programmable Items**

The following table shows the capabilities of each programmable items.

Item	Standard
Number of documents you can store in memory for Memory Transmission	100
Number of pages you can store in memory (using A4 Standard <itu-t 1chart="">)</itu-t>	Approx.160
Number of destinations you can register in the Address Book	400
Number of groups you can register	20
Number of destinations you can register in a group	100
Number of destinations you can specify per file	100
Number of destinations you can specify for all files (including files in memory)	500
Number of destinations you can search at a time using [Search Address Book]	100
Number of recent destinations the machine can store	1