Fax Option Type M10 Machine Code: D791

Field Service Manual

November, 2013

Important Safety Notices

WARNING

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

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

• Note

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

Symbols and Abbreviations

Conventions Used in this Manual

This manual uses several symbols.

Symbol	What it means	
¢	Refer to section number	
F	Screw	
ĘIJ	Connector	
C	E-ring	
$\langle 7 \rangle$	Clip ring	
j.	Clamp	
	Lengthwise, SEF (Short Edge Feed)	Sideways, LEF (Long Edge Feed)

Cautions, Notes, etc.

The following headings provide special information:

• Failure to obey warning information could result in serious injury or death.

• Obey these guidelines to ensure safe operation and prevent minor injuries.

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• Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.

• Always obey these guidelines to avoid serious problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine. bold is added for emphasis.

Note

• This document provides tips and advice about how to best service the machine.

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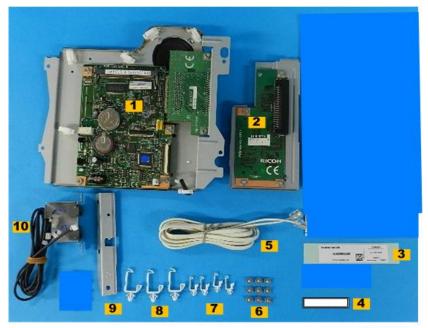
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Fax Option (D791) Installation

Component Check

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



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No.	Description	Qʻty
1	FCU	1
2	Relay Board	1
3	FCC Decal (NA only)	1
4	Serial Number Decal	1
5	Telephone Cord (NA only)	1
6	Screw: M3x6	9
7	Clamp - Small	4

No.	Description	Q'ty
8	Clamp - Large	3
9	Bracket	1
10	Harness: TEL and LINE	1

Fax Option Installation Procedure

- 1. Turn off the machine.
 - Wait for the machine to switch off.
 - When the operation panel goes off, unplug the machine from its power supply.

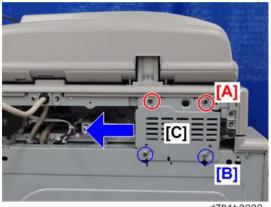
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• The machine must be connected to a grounded socket outlet.



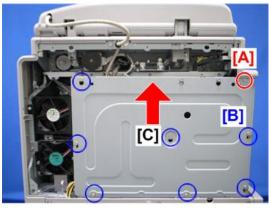
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2. Remove the rear cover [A] ($\mathscr{F} \times 5$).



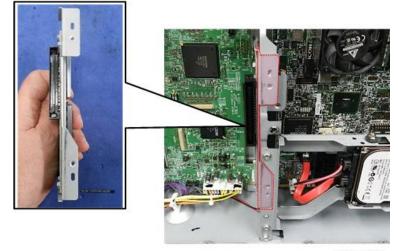
d791b0002

- 3. Remove screws [A] ($\mathscr{P}x2$).
- 4. Loosen screws [B] (Px2).
- 5. Slide the scanner cable bracket [C] in the direction of the blue arrow, and then remove it.



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- 6. Remove screw [A] (Px1).
- 7. Loosen (do not remove) the other screws [B] ($\mathscr{F}x7$).
- 8. Slide up the controller box cover [C], and then remove it.



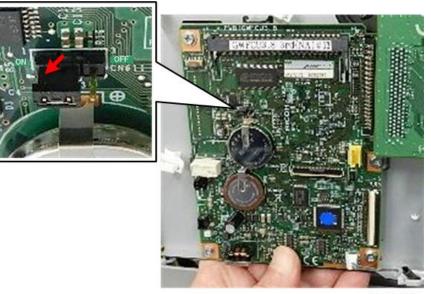
d791b0004

9. Set the relay board.



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- 10. Fasten the relay board [A] (\mathscr{F} x2).
 - Make sure that the FCU is seated correctly. If not, SC672 occurs.



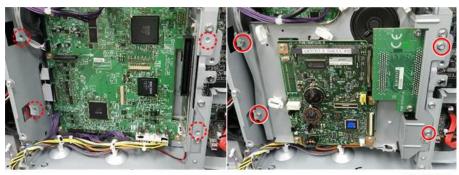
d791b0006

11. Remove the jumper switch (set to OFF) and set it to ON position.

Note

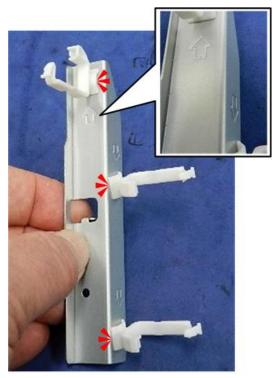
• The machine may issue SC819 or SC820 if the jumper switch is not set to "ON" correctly.

10



d791b0007

- 12. Locate the brackets and holes for the FCU.
- 13. Attach the FCU (🕅 x4).



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14. Attach the large clamps to the bracket ($\square x3$).

Note

• The embossed arrows show you where to attach the clamps.



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15. Set the bracket (with clamps attached), and then fasten it ($\mathscr{P}x1$).



d791b0010

16. Attach the small clamps to the holes on the HDD unit bracket ($\square x4$).

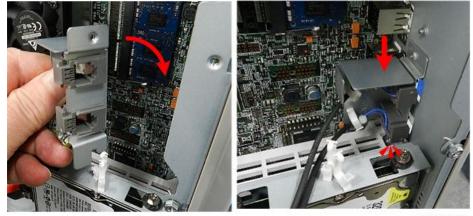


17. Use the tip of a small screwdriver to remove the knockouts of the TEL and LINE ports.



d791b0012

18. Remove the controller faceplate cover ($\mathscr{F}x3$).



d791b0013

19. Set the TEL/LINE harnesses bracket.



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20. Fasten the TEL/LINE harness bracket to the controller box faceplate ($\mathscr{P}x1$).



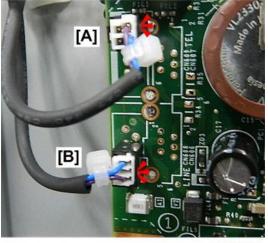
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21. The TEL/LINE harnesses are routed from right to left on the back of the machine.



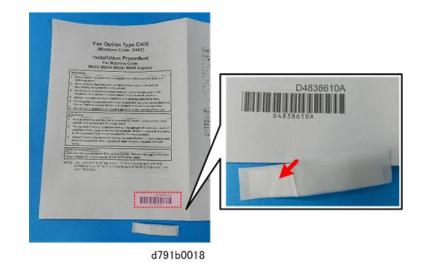
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- 22. First, clamp the harnesses in the small clamps [A] (x4).
- 23. Next, clamp the harnesses in the large clamps [B] (🛱 x8).

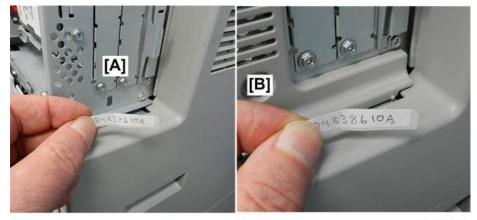


d791b0017

- 24. Connect the modular harnesses to the FCU (🕮 x2).
 - [A] 2-pin connector
 - [B] 3-pin connector



- 25. Locate the fax serial number on the first page of the installation instructions.
- 26. Write the serial number on the blank serial number decal.



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27. Attach the serial number decal to the front of the controller faceplate [A] (before re-attached to cover), or to the bottom of the cover [B] after re-attaching it.

1



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28. Connect the telephone cord to the "LINE" jack.



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- 29. Attach FCC decal to the rear lower cover (NA only).
- 30. Plug in the machine and turn on the main power switch.

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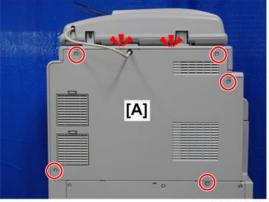
- After you turn the machine on, if you see a message that tells you the SRAM has been formatted due to a problem with SRAM, turn the machine off and on again to clear the message.
- 31. Enter the "User Tools" mode and set date and time.
- 32. Do SP3-102-000 in the fax SP mode and enter the serial number for the fax unit.
- 33. Enter the correct country code with SP2-103-001 (NCU Country/ Area Code Setting).
- 34. Exit the SP mode, and turn the machine off and on.

Memory Unit Type B 32MB

Installation Procedure

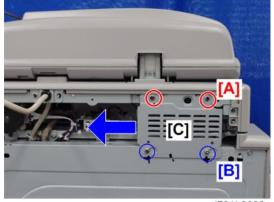
- 1. Turn off the machine.
 - Wait for the machine to switch off.
 - When the operation panel goes off, unplug the machine from its power suply.

• The machine must be connected to a grounded socket outlet.



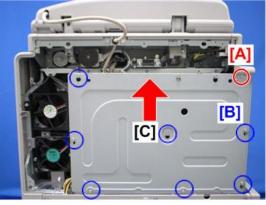
d791b0001

2. Remove the rear cover [A] ($\mathscr{P}x5$).



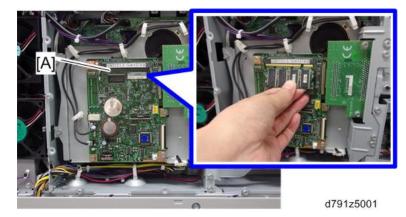
d791b0002

- 3. Remove screws [A] (Px2).
- 4. Loosen screws [B] (Px2).
- 5. Slide the scanner cable bracket [C] in the direction of the blue arrow, and then remove it.



d791b0003

- 6. Remove screw [A] (Px1).
- 7. Loosen (do not remove) the other screws [B] ($\mathscr{P}x7$).
- 8. Slide up the controller box cover [C], and then remove it.



- 9. Install the memory option in the memory slot [A] on the FCU.
- 10. Re-assemble the machine.

Fax Communication Unit Type M10

Installation Procedure

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

Requirements:

- Up to six machines can be registered as the Client-side Machines.
- Machines that have the FAX unit installed cannot be used as the Client-side Machine.
- Only one machine can be registered as the Remote Machine.
- Firmware for this unit: "aics" (software number: D7925759 for Type M10)
- Remote Fax transmissions are possible on a G3 line.
- The remote fax function does not support User Code Authentication. Disable the User Code Authentication on the Remote machine.
- Use this function to check the contents of a file that is stored in memory and not yet sent. Also, use this function to cancel a transmission from the Client-side Machine.

Order of Fax Connection Unit installation procedure:

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

🚼 Important 🔵

- Do not register the Remote Machine before the Client-side Machine is registered in the Remote Machine. Otherwise, registering the Remoete Machine fails.
- 4. Register the Remote Machine in the Client-side Machine.

Installing the application

- 1. Remove the SD card slot cover from the SD card slots [A] ($P \times 1$).
- 2. Insert the SD card (Fax Connection Unit Type M10) in SD slot 2 (lower) with its label face [B] towards the front of the machine. Then push it slowly into SD slot 2 (lower) until you hear a click.
- 3. Plug in, and then turn on the machine.
- Move the Fax Connection Unit Type M10 application from the SD card in SD slot 2 (lower) to the SD card in SD slot 1 (upper) with SP5-873-001.
- 5. Turn off the machine.

- 6. Remove the SD card from SD slot 2 (lower), and then keep it in a safe place (see "SD Card Appli Move" in the manual for the main frame).
- 7. Attach the SD-card slot cover, and then turn on the machine ($\mathscr{P} \times 1$).
- 8. Make sure that the machine can recognize the option (See 'Self-Diagnosis Report' and check whether the aics (D7925759for Type M10) is listed in [Loading Program].)

Registering the Client-side Machine(s)

On the Remote Machine:

- 1. Press the [User Tools/Counter] key on the operation panel.
- 2. Press [System Settings] to select.
- 3. Press [Administrator Tools] to select.
- 4. Press [Program//Change/Delete Remote Machine] to select.
- 5. Enter the IP address or host name of the Client-side Machines.

Vote

- Up to six machines can be registered as the Client-side Machines.
- 6. Press [Set] to set after "connection test".
- 7. Presss [User Tools/Counter] key on the operation panel to terminate the System Settings.

Registering the Remote Machine

🕹 Note

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

On the Client-side Machine(s):

- 1. Press the [User Tools/Counter] key on the operation panel
- 2. Press [System Settings] to select.
- 3. Press [Administrator Tools] to select.
- 4. Press [Program/Change/Delete Remote Machine] to select.
- 5. Enter the IP address or host name of the Remote Machine.
- 6. Press [Set] to set after "connection test".
- 7. Press [Exit] to exit from the set-up procedure.

Configuring the Remote Reception Settings

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

• Note

 By performing procedures #1-3 above, the Client-side Machines can send faxes via the Remote Machine. The procedures shown below are necessary to enable the Client-side Machines to receive faxes.

On the Remote Machine:

1) If you use "Remote Reception Setting per Line"

- 1. Press [Facsimile Features] to select.
- 2. Press [Remote Reception Setting per Line] in [Reception Settings] to select.
- 3. Enter an IP address or a host name of the client-side machine to connect.
- 4. Press [Set], and [Exit] to exit from the setting.

2) If you use "Remote Reception per Sender"

- 1. Press [Facsimile Features] to select.
- 2. Press [Program Special Sender] in [Reception Settings] to select.

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



3. Select the Special Sender.

Program / Change		Cancel	. OK		
Check contents, then press [OK].					
Own Name and Fax Number	Conditions:	Full Agreem	ent Partial Agreement		
Authorized Reception per Sender Off	Print 2 Sided p	er Sender	Same as Basic Settings		
RX File Print Oty per Sender Same as Basic Settings	Memory Lock RX p	ver Sender	Same as Basic Settings		
Forwarding per Sender Same as Basic Settings	Paper Tray per	Sender	Same as Basic Settings		
Remote Reception Setting per Sender On					
Remote Machine:					

d1661002

4. Press [Remote Reception Setting per Sender] to select.

Remote Reception Sett	ing per Sender	Cancel	OK
Select item, then pre	ss [OK].		
0n	Off		
Remote Machine			
			d1661003

- 5. Press [On] and [Remote Machine] to select.
- 6. Enter an IP address or a host name of the client-side machine to connect.
- 7. Press [OK] to exit from the setting.

Remote Fax Icon Addition for Remote Machine

This procedure allows the remote fax icon to appear on the home screen of the operation panel.

On both the Remote Machine and the Client-side Machines:

1. Press [User Tools].

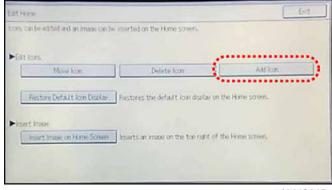
	Features	a la
Aster Box Maama	Trinter Features	i
Trav Paper Settings	Scamer Features	
Gdt Home	Extended Feature Settings	

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interarce

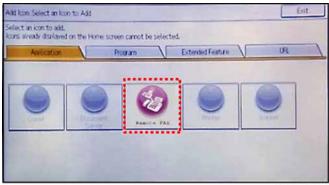
Enarry

2. Press [Edit Home].



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3. Press [Add Icon].



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4. Press [Remote Fax].

whict arison to add	4				
Stert n km to add	Coner	Same .	Finter	Document Server	
Ster2 Select Destruition		364	64	-	1.11
	Nor-	Note -			-

- 5. Press a [Blank] to set a location for the remote fax icon.
- 6. Press [Exit] to exit from the set-up procedure.

2. Replacement and Adjustment

FCU

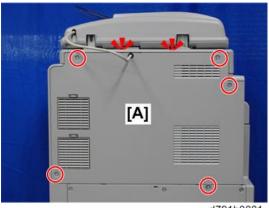
SRAM Data Transfer Procedure

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

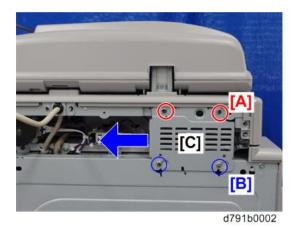
Note

- The following data can be transfered: TTI, RTI, CSI, Fax bit switch settings, RAM address settings, NCU parameter settings
- The service kit (D1885182A) is necessary for this procedure.
- 1. Turn off the machine.
 - Wait for the machine to switch off.
 - When the operation panel goes off, unplug the machine from its power supply.

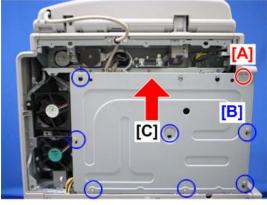
• The machine must be connected to a grounded socket outlet.



- d791b0001
- 2. Remove the rear cover [A] (*P* x 5).

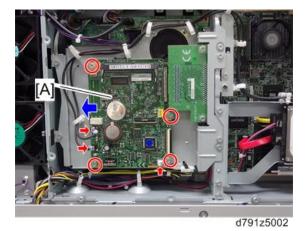


- 3. Remove screws [A] (Px2).
- 4. Loosen screws [B] (Px2).
- 5. Slide the scanner cable bracket [C] in the direction of the blue arrow, and then remove it.

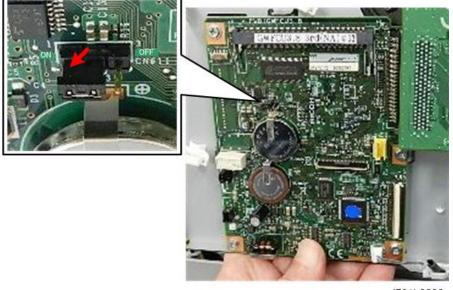


d791b0003

- 6. Remove screw [A] (Px1).
- 7. Loosen (do not remove) the other screws [B] ($\mathscr{P}x7$).
- 8. Slide up the controller box cover [C], and then remove it.



9. Replace the installed FCU board [A] with a new FCU board (P x 4, 🕬 x 3).



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10. Remove the jumper switch (set to OFF) and set it to ON position.



• The machine may issue SC819 or SC820 if the jumper switch is not set to "ON" correctly.

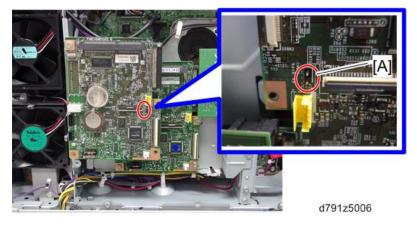
2



 Attach the bracket [A] provided in the service kit (D1885182A) to the left frame of the controller box (P x 1).

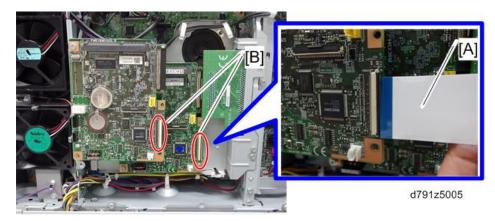


12. Attach the FCU board [A] removed in step 9 to the bracket (otin x 1).



13. Set the jumper switch provided in the service kit (D1885182A) to CN616 on the removed FCU board.

2



- 14. Attach the flat cable [A] provided with the service kit (D1885182A) to CN603 [B] of the new FCU board and removed FCU board in step 9 to the bracket
 - Make sure that the blue tape of the flat cable faces outward.

- The removed FCU board must be away from the metal frames. Otherwise, the removed FCU board may get a short circuit.
- 15. Turn on the main power switch.
- 16. SRAM data transmission starts. When the transmission is completed, you will hear a beeper sound.

Vote

- The beeper sound is the same volume as the speaker sound.
- The beeper sounds even if the sperker sound is turned off.
- If the beeper does not sound, turn the main power switch on and off repeatedly and do the transmission procedure 2 or 3 times.
- If the beeper does not sound after turning the main switch on and off 3 times, you need to input the settings stored in SRAM memory manually.
- 17. When "Ready" appears on the copy display, turn off the main power switch, and then disconnect the flat cable from the removed FCU board.
- 18. Remove the removed FCU board (*P* x 1).
- 19. Remove the bracket from the left frame of the controller box ($\mathscr{P} \times 1$).
- 20. Disconnect the flat cable from the new FCU board.
- 21. Re-assemble the machine.
- 22. Turn on the main power switch, then do SP6-101 to print the system parameter list.
- 23. Check the system parameter list to make sure that the data is transferred correctly.
- Set the correct date and time with the User Tools: User Tools > System Settings > Timer Setting > Set Date/Time.

Vote

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

Error Codes

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

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

Code	Meaning	Suggested Cause/Action	
0-05	Modem training fails even G3 shifts down to 2400 bps.	 Check the line connection. Try adjusting the tx level and/or cable equalizer. Replace the FCU. Check for line problems. Cross reference See error code 0-04.	
0-06	The other terminal did not reply to DCS	 Check the line connection. Try adjusting the tx level and/or cable equalizer settings. Replace the FCU. The other end may be defective or incompatible; try sending to another machine. Check for line problems. Cross reference See error code 0-04. 	
0-07	No post-message response from the other end after a page was sent	 See error code 0-04. Check the line connection. Replace the FCU. The other end may have jammed or run out of pa The other end user may have disconnected the construction. Check for a bad line. The other end may be defective; try sending to another machine. 	

Code	Meaning	Suggested Cause/Action
0-08	The other end sent RTN or PIN after receiving a page, because there were too many errors	 Check the line connection. Replace the FCU. The other end may have jammed, or run out of paper or memory space. Try adjusting the tx level and/or cable equalizer settings. The other end may have a defective modem/FCU; try sending to another machine. Check for line problems and noise. Cross reference Tx level - NCU Parameter 01 (PSTN) Cable equalizer - G3 Switch 07 (PSTN) Dedicated Tx parameters in Service Program Mode
0-14	Non-standard post message response code received	 Incompatible or defective remote terminal; try sending to another machine. Noisy line: resend. Try adjusting the tx level and/or cable equalizer settings. Replace the FCU. Cross reference See error code 0-08.
0-15	The other terminal is not capable of specific functions.	 The other terminal is not capable of accepting the following functions, or the other terminal's memory is full. Confidential rx Transfer function SEP/SUB/PWD/SID

Code	Meaning	Suggested Cause/Action
0-16	CFR or FTT not detected after modem training in confidential or transfer mode	 Check the line connection. Replace the FCU. Try adjusting the tx level and/or cable equalizer settings. The other end may have disconnected, or it may be defective; try calling another machine. If the rx signal level is too low, there may be a line problem. Cross reference See error code 0-08.
0-17	Communication was interrupted by pressing the [Stop] key	If the [Stop] key was not pressed and this error keeps occurring, replace the operation panel or the operation panel drive board.
0-20	Facsimile data not received within 6 s of retraining	 Check the line connection. Replace the FCU. Check for line problems. Try calling another fax machine. Try adjusting the reconstruction time for the first line and/or rx cable equalizer setting. Cross reference Reconstruction time - G3 Switch 0A, bit 6 Rx cable equalizer - G3 Switch 07 (PSTN)
0-21	EOL signal (end-of-line) from the other end not received within 5 s of the previous EOL signal	 Check the connections between the FCU and line. Check for line noise or other line problems. Replace the FCU. The remote machine may be defective or may have disconnected. Cross reference Maximum interval between EOLs and between ECM frames - G3 Switch 0A, bit 4

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

Code	Meaning	Suggested Cause/Action
0-33	The data reception (not ECM) is not completed within 10 minutes.	 Check the line connection. The other terminal may have a defective modem/ FCU.
0-52	Polarity changed during communication	 Check the line connection. Retry communication.
0-55	FCU does not detect the SG3.	FCU firmware or board defective.SG3 firmware or board defective.
0-56	The stored message data exceeds the capacity of the mailbox in the SG3.	• SG3 firmware or board defective.
0-70	The communication mode specified in CM/JM was not available (V.8 calling and called terminal)	 The other terminal did not have a compatible communication mode (e.g., the other 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 mode, because it could not detect ANSam after sending CI.	 The calling terminal could not detect ANSam due to noise, etc. ANSam was too short to detect. Check the line connection and condition. Try making a call to another V.8/V.34 fax.
0-75	The called terminal fell back to T.30 mode, because it could not detect a CM in response to ANSam (ANSam timeout).	 The terminal could not detect ANSam. Check the line connection and condition. Try receiving a call from another V.8/V.34 fax.
0-76	The calling terminal fell back to T.30 mode, because it could not detect a JM in response to CM (CM timeout).	 The called terminal could not detect a CM due to noise, etc. Check the line connection and condition. Try making a call to another V.8/V.34 fax.

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Code	Meaning	Suggested Cause/Action
0-77	The called terminal fell back to T.30 mode, because it could not detect a CJ in response to JM (JM timeout).	 The calling terminal could not detect a JM due to noise, etc. A network that has narrow bandwidth cannot pass JM to the other end. Check the line connection and condition. Try receiving a call from another V.8/V.34 fax.
0-79	The called terminal detected CI while waiting for a V.21 signal.	 Check for line noise or other line problems. If this error occurs, the called terminal falls back to T. 30 mode.
0-80	The line was disconnected due to a timeout in V.34 phase 2 – line probing.	• The guard timer expired while starting these phases. Serious noise, narrow bandwidth, or low signal level can cause these errors.
0-81	The line was disconnected due to a timeout in V.34 phase 3 – equalizer training.	 If these errors happen at the transmitting terminal: Try making a call at a later time. Try using V.17 or a slower modem using dedicated
0-82	The line was disconnected due to a timeout in the V.34 phase 4 – control channel start-up.	tx parameters.Try increasing the tx level.Try adjusting the tx cable equalizer setting.
0-83	The line was disconnected due to a timeout in the V.34 control channel restart sequence.	 If these errors happen at the receiving terminal: Try adjusting the rx cable equalizer setting. Try increasing the tx level. Try using V.17 or a slower modem if the same error is frequent when receiving from multiple senders.
0-84	The line was disconnected due to abnormal signaling in V.34 phase 4 – control channel start-up.	 The signal did not stop within 10 s. Turn off the machine, then turn it back on. If the same error is frequent, replace the FCU.
0-85	The line was disconnected due to abnormal signaling in V.34 control channel restart.	 The signal did not stop within 10 s. Turn off the machine, then turn it back on. If the same error is frequent, replace the FCU.

Code	Meaning	Suggested Cause/Action
0-86	The line was disconnected because the other terminal requested a data rate using MPh that was not available in the currently selected symbol rate.	The other terminal was incompatible.Ask the other party to contact the manufacturer.
0-87	The control channel started after an unsuccessful primary channel.	 The receiving terminal restarted the control channel because data reception in the primary channel was not successful. This does not result in an error communication.
0-88	The line was disconnected because PPR was transmitted/ received 9 (default) times within the same ECM frame.	Try using a lower data rate at the start.Try adjusting the cable equalizer setting.
2-11	Only one V.21 connection flag was received	• Replace the FCU.
2-12	Modem clock irregularity	Replace the FCU.
2-13	Modem initialization error	 Turn off the machine, then turn it back on. Update the modem ROM. Replace the FCU.
2-22	Counter overflow error of JBIG chip	If error occurs frequently, change the settings for resolution, paper size, compression type.
2-23	JBIG compression or reconstruction error	• Turn off the machine, then turn it back on.
2-24	JBIG ASIC error	• Turn off the machine, then turn it back on.

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Code	Meaning	Suggested Cause/Action
2-25	JBIG data reconstruction error (BIH error)	
2-26	JBIG data reconstruction error (Float marker error)	 JBIG data error Check the sender's JBIG function.
2-27	JBIG data reconstruction error (End marker error)	Update the FCU ROM.
2-28	JBIG data reconstruction error (Timeout)	
2-29	JBIG trailing edge maker error	FCU defectiveCheck the destination device.
2-50	The machine resets itself for a fatal FCU system error	 If this is frequent, update the ROM, or replace the FCU.
2-51	The machine resets itself because of a fatal communication error	 If this is frequent, update the ROM, or replace the FCU.
2-53	Snd msg() in the manual task is an error because the mailbox for the operation task is full.	 The user did the same operation many times, and this gave too much load to the machine.
4-01	Line current was cut	Check the line connector.Check for line problems.Replace the FCU.
4-10	Communication failed because of an ID Code mismatch (Closed Network) or Tel. No./CSI mismatch (Protection against Wrong Connections)	 Get the ID Codes the same and/or the CSIs programmed correctly, then resend. The machine at the other end may be defective.
5-00	Data reconstruction not possible	Replace the FCU.
5-10	DCR timer expired	Replace the FCU.

Code	Meaning	Suggested Cause/Action
5-20	Storage impossible because of a lack of memory	Temporary memory shortage.
5-21	Memory overflow	Test the SAF memory.
5-23	Print data error when printing a substitute rx or confidential rx message	Test the SAF memory.Ask the other end to resend the message.
5-25	SAF file access error	 Replace an SD card or HDD. Replace the FCU.
6-00	G3 ECM - T1 time out during reception of facsimile data	
6-01	G3 ECM - no V.21 signal was received	Try adjusting the rx cable equalizer.Replace the FCU.
6-02	G3 ECM - EOR was received	
6-04	G3 ECM - RTC not detected	Check the line connection.Check for a bad line or defective remote terminal.Replace the FCU.
6-05	G3 ECM - facsimile data frame not received within 18 s of CFR, but there was no line fail	 Check the line connection. Check for a bad line or defective remote terminal. Replace the FCU. Try adjusting the rx cable equalizer Cross reference Rx cable equalizer - G3 Switch 07 (PSTN)
6-06	G3 ECM - coding/decoding error	Defective FCU.The other terminal may be defective.
6-08	G3 ECM - PIP/PIN received in reply to PPS.NULL	The other end pressed Stop during 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.

Code	Meaning	Suggested Cause/Action
6-10	G3 ECM - error frames still received at the other end after all communication attempts at 2400 bps	 Check for line noise. Adjust the tx level (use NCU parameter 01 or the dedicated tx parameter for that address). Check the line connection. Defective remote terminal.
6-21	V.21 flag detected during high speed modem communication	• The other terminal may be defective or incompatible.
6-22	The machine resets the sequence because of an abnormal handshake in the V. 34 control channel	Check for line noise.If the same error occurs frequently, replace the FCU.Defective remote terminal.
6-99	V.21 signal not stopped within 6 s	• Replace the FCU.
13-17	SIP user name registration error	 Double registration of the SIP user name. Capacity for user-name registration in the SIP server is not sufficient.
13-18	SIP server access error	Incorrect initial setting for the SIP server.Defective SIP server.
13-24	SIP authentication error	 Registered password in the device does not match the password in the SIP server.
13-25	Network I/F setting error	IPV4 is not active in the active protocol setting.IP address of the device is not registered.
13-26	Network I/F setting error at power on	 Active protocol setting does not match the I/F 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.

Code	Meaning	Suggested Cause/Action
14-01	SMTP Connection Failed	 Failed to connect to the SMTP server (timeout) because the server could not be found. The PC is not ready to transfer files. SMTP server not functioning correctly. The DNS IP address is not registered. Network not operating correctly. Destination folder selection not correct.
14-02	No Service by SMTP Service (421)	 SMTP server operating incorrectly, or the destination for direct SMTP sending is not correct. Contact the system administrator and check that the SMTP server has the correct settings and operates correctly. Contact the system administrator for direct SMTP sending and check the sending destination.
14-03	Access to SMTP Server Denied (450)	 Failed to access the SMTP server because the access is denied. SMTP server operating incorrectly. Contact the system administrator to determine if there is a problem with the SMTP server and to check that the SMTP server settings are correct. Folder send destination is incorrect. Contact the system administrator to determine that the SMTP server settings and path to the server are correct. Device settings incorrect. Confirm that the user name and password settings are correct. Direct SMTP destination incorrect. Contact the system administrator to determine if there is a problem at the destination at that the settings at the destination are correct.
14-04	Access to SMTP Server Denied (550)	SMTP server operating incorrectlyDirect SMTP sending not operating correctly

Code	Meaning	Suggested Cause/Action
14-05	SMTP Server HDD Full (452)	 Failed to access the SMTP server because the HDD on the server is full.
		 Insufficient free space on the HDD of the SMTP server. Contact the system administrator and check the amount of space remaining on the SMTP server HDD.
		 Insufficient free space on the HDD where the destination folder is located. Contact the system administrator and check the amount of space remaining on the HDD where the target folder is located.
		 Insufficient free space on the HDD at the target destination for SMTP direct sending. Contact the system administrator and check the amount of space remaining on the target HDD.
	User Not Found on SMTP Server (551)	• The designated user does not exist.
14-06		 The designated user does not exist on the SMTP server.
		 The designated address is not for use with direct SMTP sending.
	Data Send to SMTP Server Failed (4XX)	 Failed to access the SMTP server because the transmission failed.
		PC not operating correctly.
14-07		SMTP server operating incorrectly
		 Network not operating correctly.
		Destination folder setting incorrect.
		Direct SMTP sending not operating correctly.
14-08	Data Send to SMTP Server Failed (5XX)	 Failed to access the SMTP server because the transmission failed.
		SMTP server operating incorrectly
		• Destination folder setting incorrect.
		• Direct SMTP sending not operating correctly.
		Software application error.

Code	Meaning	Suggested Cause/Action
14-09	Authorization Failed for Sending to SMTP Server	POP-Before-SMTP or SMTP authorization failed.Incorrect setting for file transfer
14-10	Addresses Exceeded	• Number of broadcast addresses exceeded the limit for the SMTP server.
14-11	Buffer Full	 The send buffer is full so the transmission could not be completed. Buffer is full due to using Scan-to- Email while the buffer is being used send mail at the same time.
14-12	Data Size Too Large	 Transmission was cancelled because the detected size of the file was too large.
14-13	Send Cancelled	 Processing is interrupted because the user pressed Stop.
14-14	Security Locked File Error	 Update the software because of the defective software.
14-15	Mail Data Error	 The transmitting a mail is interrupted via DCS due to the incorrect data. Update the software because of the defective software.
14-16	Maximum Division Number Error	 When a mail is divided for the mail transmission 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.
14-17	Incorrect Ticket	 Update the software because of the defective software.
14-18	Access to MCS File Error	 The access to MCS file is denied due to the no permission of access. Update the software because of the defective software.
14-20	SMTP Authentication error	Make sure the administrator's e-mail address is same as the SMTP authentication address or POP before SMTP address.

Code	Meaning	Suggested Cause/Action
14-21	Transmission error of S/MIME	Register the correct user certificate and device certificate.
14-22	Destination certificate is invalid in S/MIME transmission.	Register the correct destination certificate.
14-23	Device certificate is invalid in S/MIME transmission.	Register the correct device certificate.
14-24	Destination and device certificate is in valid in S/ MIME.	Register the correct user certificate and device certificate.
14-30	MCS File Creation Failed	 Failed to create the MCS file because: The number of files created with other applications on the Document Server has exceeded the limit. HDD is full or not operating correctly. Software error.
14-31	UFS File Creation Failed	 UFS file could not be created: Not enough space in UFS area to handle both Scanto-Email and IFAX transmission. HDD full or not operating correctly. Software error.
14-32	Cancelled the Mail Due to Error Detected by NFAX	• Error detected with NFAX and send was cancelled due to a software error.
14-33	No Mail Address For the Machine	• Neither the mail address of the machine nor the mail address of the network administrator is registered.
14-34	Address designated in the domain for SMTP sending does not exist	 Operational error in normal mail sending or direct SMTP sending. Check the address selected in the address book for SMTP sending. Check the domain selection.
14-50	Mail Job Task Error	 Due to an FCU mail job task error, the send was cancelled: Address book was being edited during creation of the notification mail. Software error.

Code	Meaning	Suggested Cause/Action
14-51	UCS Destination Download Error	 Not even one return notification can be downloaded: 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).
14-60	Send Cancel Failed	 The cancel operation by the user failed to cancel the send operation.
14-61	Notification Mail Send Failed for All Destinations	• All addresses for return notification mail failed.
14-62	Transmission Error due to the existence of zero line page	• When the 0 line page exists in received pages with G3 communication, the transmission is interrupted.
15-01	POP3/IMAP4 Server Not Registered	• At startup, the system detected that the IP address of the POP3/IMAP4 server has not been registered in the machine.
15-02	POP3/IMAP4 Mail Account Information Not Registered	 The POP3/IMAP4 mail account has not been registered.
15-03	Mail Address Not Registered	• The mail address has not been registered.
15-10	DCS Mail Receive Error	• Error other than 15-11 to 15-18.
15-11	Connection Error	 The DNS or POP3/IMAP4 server could not be found: The IP address for DNS or POP3/IMAP4 server is not stored in the machine. The DNS IP address is not registered. Network not operating correctly.
15-12	Authorization Error	 POP3/IMAP4 send authorization failed: Incorrect IFAX user name or password. Access was attempted by another device, such as the PC. POP3/IMAP4 settings incorrect.
15-13	Receive Buffer Full	 Occurs only during manual reception. Transmission cannot be received due to insufficient buffer space. The buffer is being used for mail send or Scan-to- Email.

Code	Meaning	Suggested Cause/Action
15-14	Mail Header Format Error	• The mail header is not standard format. For example, the Date line description is incorrect.
15-15	Mail Divide Error	 The e-mail is not in standard format. There is no boundary between parts of the e-mail, including the header.
15-16	Mail Size Receive Error	• The mail cannot be received because it is too large.
15-17	Receive Timeout	• May occur during manual receiving only because the network is not operating correctly.
15-18	Incomplete Mail Received	• Only one portion of the mail was received.
15-31	Final Destination for Transfer Request Reception Format Error	 The format of the final destination for the transfer request was incorrect.
15-39	Send/Delivery Destination Error	 The transmission cannot be delivered to the final destination: Destination file format is incorrect. Could not create the destination for the file transmission.
15-41	SMTP Receive Error	 Reception rejected because the transaction exceeded the limit for the "Auth. E-mail RX" setting.
15-42	Off Ramp Gateway Error	• The delivery destination address was specified with Off Ramp Gateway OFF.
15-43	Address Format Error	 Format error in the address of the Off Ramp Gateway.
15-44	Addresses Over	• The number of addresses for the Off Ramp Gateway exceeded the limit of 30.
15-61	Attachment File Format Error	• The attached file is not TIFF format.

Code	Meaning	Suggested Cause/Action
15-62	TIFF File Compatibility Error	 Could not receive transmission due to: 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.
15-63	TIFF Parameter Error	 The TIFF file sent as the attachment could not be received because the TIFF header is incorrect: The TIFF file attachment is a type not supported. The TIFF file attachment is corrupted. Software error.
15-64	TIFF Decompression Error	 The file received as an attachment caused the TIFF decompression error: The TIFF format of the attachment is corrupted. Software error.
15-71	Not Binary Image Data	 The file could not be received because the attachment was not binary image data.
15-73	MDN Status Error	 Could not find the Disposition line in the header of the Return Receipt, or there is a problem with the firmware.
15-74	MDN Message ID Error	 Could not find the Original Message ID line in the header of the Return Receipt, or there is a problem with the firmware.
15-80	Mail Job Task Read Error	 Could not receive the transmission 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).

Code	Meaning	Suggested Cause/Action
15-81	Repeated Destination Registration Error	• Could not repeat receive the transmission 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).
15-91	Send Registration Error	 Could not receive the file for transfer to the final 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.
15-92	Memory Overflow	 Transmission could not be received because memory overflowed during the transaction.
15-93	Memory Access Error	• Transaction could not complete due to a malfunction of SAF memory.
15-94	Incorrect ID Code	• The machine rejected an incoming e-mail for transfer request, because the ID code in the incoming e-mail did not match the ID code registered in the machine.
15-95	Transfer Station Function	• The machine rejected an incoming e-mail for transfer because the transfer function was unavailable.
16-00	Network Error of Fax Communication Option	 An IP address (client or remote side) is not registered. Configure an IP address. The network cable is not connected to the machine. Connect the network cable.
22-00	Original length exceeded the maximum scan length	 Divide the original into more than one page. Check the resolution used for scanning. Lower the scan resolution if possible. Add optional page memory.

Code	Meaning	Suggested Cause/Action
22-01	Memory overflow while receiving	 Wait for the files in the queue to be sent. Delete unnecessary files from memory. Transfer the substitute reception files to an another fax machine, if the machine's printer is busy or out of order. Add an optional SAF memory card or hard disk.
22-02	Tx or rx job stalled due to line disconnection at the other end	 The job started normally but did not finish normally; data may or may not have been received fully. Restart the machine.
22-04	The machine cannot store received data in the SAF	Update the ROMReplace the FCU.
22-05	No G3 parameter confirmation answer	• Defective FCU board or firmware.
23-00	Data read timeout during construction	 Restart the machine. Replace the FCU.
25-00	The machine software resets itself after a fatal transmission error occurred	Update the ROMReplace the FCU.
FO-xx	V.34 modem error	Replace the FCU.
F6-xx	SG3 modem error	 Update the SG3 modem ROM. Check for line noise or other line problems. Try communicating another V.8/V.34 fax.

IFAX Troubleshooting

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

Communication Route	ltem	Action [Remarks]
General LAN	1. Connection with the LAN	Check that the LAN cable is connected to the 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.
	1. Network settings on the PC	 Check the network settings on the PC. [Is the IP address registered in the TCP/IP properties in the network setup correct? Check the IP address with the administrator of the network.]
Between IFAX and PC	2. Check that PC can connect with the machine	 Use the "ping" command on the PC to contact the machine. [At the MS-DOS prompt, type ping then the IP address of the machine, then press Enter.]
	3. LAN settings in the machine	 Check the LAN parameters 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.]

Communication Route	ltem	Action [Remarks]
	1. LAN settings in the machine	 Check the LAN parameters 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 and e-mail server	2. E-mail account on the server	 Make sure that the machine can log into the e-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. [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.]

Communication Route	ltem	Action [Remarks]
	1. E-mail account on the Server	 Make sure that the PC can log into the e-mail server. Check that the account and password stored in the server are the same as in the machine. [Ask the administrator to check.]
Between e-mail	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.]
server and internet	3. Destination e-mail address	 Make sure that the e-mail address is actually 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- mail from the network of the destination.	 Check whether e-mail can be sent to another address on the same network, using the application e-mail software. Check the error e-mail message. [Inform the administrator of the LAN.]

IP-Fax Troubleshooting

IP-Fax Transmission

Cannot send by IP Address/Host Name

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

Cannot send via VoIP Gateway

	Check Point	Action
1	LAN cable connected?	Check the LAN cable connection.
2	VoIP Gateway T.38 standard?	Contact the network administrator.
3	VoIP Gateway installed correctly?	Contact the network administrator.
4	VoIP Gateway power switched on?	Contact the network administrator.
5	Is the IP address/host name of the specified Gateway correct?	Check the IP address/host name.
6	Number of the specified fax correct?	Check the remote fax number.
7	Firewall/NAT is installed?	Cannot breach the firewall. Send by using another method (Fax, Internet Fax)
8	Transmission sent manually?	Manual sending not supported.
9	IP address of local fax registered?	Register the IP address.
10	DNS registered when host name specified?	Contact the network administrator.
11	Remote fax a G3 fax?	Check that the remote fax is a G3 fax.
12	G3 fax is connected to VoIP gateway?	Check that G3 fax is connected.
13	Remote G3 fax turned on?	Check that G3 fax is switched on.
	Network bandwidth too narrow?	Request the network administrator to increase the bandwidth.
14		Raise the network delay level. IPFAX SW 01 Bit 0 to 3
		IP-Fax bandwidth is the same as the DCS speed. Set IP-Fax SW00 Bit 6 to 1.

Cannot send by Alias Fax number.

	Check Point	Action
1	LAN cable connected?	Check the LAN cable connection.

		Confirm the Alias of the remote fax.
2	Number of specified Alias fax correct?	
		Error Code: 13-14
3	Firewall/NAT installed?	Cannot breach the firewall. Send by using
	· · · · · · · · · · · · · · · · · · ·	another method (Fax, Internet Fax)
4	Transmission sent manually?	Manual sending not supported.
5	Gatekeeper installed correctly?	Contact the network administrator.
6	Gatekeeper power switched on?	Contact the network administrator.
7	IP address/host name of Gatekeeper correct?	Check the IP address/host name.
8	DNS server registered when Gatekeeper host name specified?	Contact the network administrator.
		Check the settings.
9	Enable H.323 SW is set to on?	See User Parameter SW 34 Bit 0
10	IP address of local fax registered?	Register the IP address of the local fax.
11	Alias number of local fax registered?	Register the Alias number of the local fax.
12	Remote fax registered in Gatekeeper?	Contact the network administrator.
13	Remote fax a T.38 terminal?	Check whether the remote fax is a T38 terminal.
14	Remote fax switched off or busy?	Contact the network administrator.
		Request the system administrator to increase the bandwidth.
		Raise the delay level.
15	Network bandwidth too narrow?	IPFAX SW 01 Bit 0 to 3
		Lower the modem transmission baud rate.
		IPFAX SW 05
14	Remote fax cancelled transmission?	Check whether the remote fax cancelled the
16		transmission.

IP-Fax Reception

Cannot receive via IP Address/Host Name.

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

Cannot receive by VoIP Gateway.

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

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

Cannot receive by Alias Fax number.

	Check Point	Action
1	LAN cable connected?	Check the LAN cable connection.
2	Firewall/NAT is installed?	Cannot the breach firewall. Request the remote fax to send by using another method (Fax, Internet Fax)
3	Gatekeeper installed correctly?	Contact the network administrator. Note The sender machine displays this error code when the sender fax is a Ricoh model.
4	Power to Gatekeeper switched on?	Contact the network administrator. Note The sender machine displays this error code when the sender fax is a Ricoh model.
5	IP address/host name of Gatekeeper correct on the sender's side?	Request the sender to check the IP address/host name. Note • The sender machine displays this error code when the sender fax is a Ricoh model.

6	DNS server registered when Gatekeeper host name specified on sender's side?	 Contact the network administrator. Note The sender machine displays this error code when the sender fax is a Ricoh model.
7	Enable H.323 SW is set to on?	Request the sender to check the settings. User Parameter SW 34 Bit 0 Note Only if the remote sender fax is a Ricoh fax.
8	Local fax IP address registered?	Register the IP address.
9	Local fax Alias number registered?	Register the Alias number.
		Request the system administrator to increase the bandwidth.
10	Network bandwidth too narrow?	Lower the start modem reception baud rate on the receiving side. IPFAX SW06
11	Remote fax cancelled transmission?	Check whether the remote fax cancelled the transmission.
12	Local fax registered in Gatekeeper?	Contact the network administrator. Note The sender machine displays this error code when the sender fax is a Ricoh model.

3. Troubleshooting

4. Service Table

Beforehand

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

Note

• The main power LED (^(*)) lights or flashes while the platen cover or ARDF is open, while the main machine is communicating with a facsimile or the network server, or while the machine is accessing the hard disk or memory for reading or writing data.

Service Tables

SP1-XXX (Bit Switches)

🐨 Bit Switches

1	Mode No.		Function		
101	System Switch				
	001 – 032	00 – 1F	Change the bit switches for system settings for the fax option """ "Bit Switches"		
	Ifax Switch	·			
102	001 - 016	00 – 0F	Change the bit switches for internet fax settings for the fax option "Bit Switches"		
	Printer Switch				
103	001 – 016	00 – 0F	Change the bit switches for printer settings for the fax option """ "Bit Switches"		
	Communication Switch				
104	001 – 032	00 – 1F	Change the bit switches for communication settings for the fax option The fax Switches"		
	G3-1 Switch	I			
105	001 – 016	00 – 0F	Change the bit switches for the protocol settings of the standard G3 board "Bit Switches"		
111	IP fax Switch				
	001 – 016	00 – 0F	Change the bit switches for optional IP fax parameters The switches"		

SP2-XXX (RAM Data)

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

SP3-XXX (Tel Line Settings)

3	Mode No.		Function
101	Service Statio	n	
101	001	Fax Number	Enter the fax number of the service station.
102	Serial Numbe	r	
102	000		Enter the fax unit's serial number.
	PSTN-1 Port S	ettings	
	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)".
103	002	PSTN Access Number	Enter the PSTN access number for the G3-1 line.
	003	Memory Lock Disabled	Not used

	IPFAX Port Settings			
	001	H323 Port	Sets the H323 port number.	
	002	SIP Port	Sets the SIP port number.	
	003	RAS Port	Sets the RAS port number.	
107	004	Gatekeeper port	Sets the Gatekeeper port number.	
	005	T.38 Port	Sets the T.38 port number.	
	006	SIP Server Port	Sets the SIP port number.	
	007	IPFAX Protocol Priority	Select "H323" or "SIP".	
201	FAX SW			
	001 – 032	00 – 1F		

SP4-XXX (ROM Versions)

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

SP5-XXX (Initializing)

5	Mode No. Function	
Initialize SRAM		
101	000	Initializes the bit switches and user parameters, user data in the SRAM, files in the SAF memory, and clock.
100	Erase All Files	
102	000	Erases all files stored in the SAF memory.

103	Reset Bit Switches		
	000	Resets the bit switches and user parameters.	
104	Factory setting		
	000	Resets the bit switches and user parameters, user data in the SRAM and files in the SAF memory.	
105	Initialize All Bit Switches		
	000	Initializes all the current bit switch settings.	
106	Initialize Security Bit Switches		
	000	Initializes only the security bit switches. If you select automatic output/ display for the user parameter switches, the security settings are initialized.	

SP6-XXX (Reports)

6	Mode No.		Function
101	System Parameter List		
	000	-	Touch the "ON" button to print the system parameter list.
102	Service Monitor Report		
	000	-	Touch the "ON" button to print the service monitor report.
	G3 Protocol Dump List		
103	002	G3-1 (All Communications)	Prints the protocol dump list of all communications for the G3-1 line.
	003	G3-1 (1 Communication)	Prints the protocol dump list of the last communication for the G3-1 line.

	All Files print out			
105	000	-	Prints out all the user files in the SAF memory, including confidential messages.	
			 Note Do not use this function, unless the customer is having trouble printing confidential messages or recovering files stored using the memory lock feature. 	
106	Journal Print out			
	001	All Journals	The machine prints all the communication records on the report.	
	002	Specified Date	The machine prints all communication records after the specified date.	
	Log List Print out			
	001	All log files		
	002	Printer		
	003	SC/TRAP Stored		
	004	Decompression		
	005	Scanner	These log print out functions are for designer use only.	
107	006	JOB/SAF		
107	007	Reconstruction		
	008	JBIG		
	009	Fax Driver		
	010	G3CCU		
	011	Fax Job		
	012	ССИ		
	013	Scanner Condition		

108	IP Protocol Dump List			
	001	All Communications	Prints the protocol dump list of all communications for the IP fax line.	
	002	1 Communication	Prints the protocol dump list of the last communication for the IP fax line.	

SP7-XXX (Test Modes)

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

Vote

• 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

System Switch 00 (SP No. 1-101-001)			
No	Function	Comments	
0	Dedicated transmission parameter programming O: Disabled 1: Enabled	Set this bit to 1 before changing any dedicated transmission parameters. This setting is automatically reset to "0" after turning off and on.	
1	Not used	Do not change this setting.	
2	Technical data printout on the Journal O: Disabled 1: Enabled	1: Instead of the personal name, the following data are listed on the Journal for each G3 communication.	

	Example:		
		100 03 04 (7) (8)	
(1): EQM value (Line quality data). A larger number means more errors.			
	 (2): Symbol rate (V.34 only) (3): Final modem type used (4): Starting data rate (for example, 288 means 28.8 kbps) (5): Final data rate 		
	(6): Rx revel (see below for how to re	ead the rx level)	
	(7): Total number of error lines that c	occurred during non-ECM reception.	
	(8): Total number of burst error lines	that occurred during non-ECM reception.	
	♦ Note		
	• EQM and rx level are fixed at "	FFFF" in tx mode.	
	• The seventh and eighth number reception records.	s are fixed at "00" for transmission records and ECM	
	Rx level calculation		
	Example:		
	0000 32V34 288/264 L0 (1) (2)(3) (4) (5) (6)	100 03 04 (7) (8)	
	The four-digit hexadecimal value (N) after "L" indicates the rx level.	
	The high byte is given first, followed by the low byte. Divide the decimal value of N by -16 t get the rx level.		
	In the above example, the decimal v	alue of N (= 0100 [H]) is 256.	
	So, the actual rx level is 256/-16 =	-16 dB	
3	Not used	Do not change this setting.	
4	Line error mark print 0: OFF, 1: ON (print)	When "1" is selected, a line error mark is printed on the printout if a line error occurs during reception. This shows an error position in ECM off mode.	
5	G3 communication parameter display 0: Disabled	This is a fault-finding aid. The LCD shows the key parameters (see "G3 Communication Parameters" below this table). This is normally disabled because it cancels the CSI display for the user.	
	1: Enabled	Be sure to reset this bit to "0" after testing.	

6	Protocol dump list output after each communication 0: Off 1: On	This is only used for communication troubleshooting. It shows the content of the transmitted facsimile protocol signals. Always reset this bit to 0 after finishing testing. If system switch 09 bit 6 is at "1", the list is only printed if there was an error during the communication.
7	Not used	Do not change the setting.

G3 Communication Parameters

	336: 33600 bps 168: 16800 bps
	312: 31200 bps 144: 14400 bps
	288: 28800 bps 120: 12000 bps
Modem rate	264: 26400 bps 96: 9600 bps
	240: 24000 bps 72: 7200 bps
	216: 21600 bps 48: 4800 bps
	192: 19200 bps 24: 2400 bps
	S: Standard (8 x 3.85 dots/mm)
	D: Detail (8 x 7.7 dots/mm)
	F: Fine (8 x 15.4 dots/mm)
Resolution	SF: Superfine (16 x 15.4 dots/mm)
	21: Standard (200 x 100 dpi)
	22: Detail (200 x 200 dpi)
	44: Superfine (400 x 400 dpi)
	MMR: MMR compression
	MR: MR compression
Compression mode	MH: MH compression
	JBO: JBIG compression (Optional mode)
	JBB: JBIG compression (Basic mode)
	ECM: With ECM
Communication mode	NML: With no ECM
	·

Width and reduction	A4: A4 (8.3"), no reduction B4: B4 (10.1"), no reduction A3: A3 (11.7"), no reduction
I/O rate	0: 0 ms/line 5: 5 ms/line 10: 10 ms/line 20: 20 ms/line 25: 2.5 ms/line 40: 40 ms/line Note • "40" is displayed while receiving a fax message using AI short protocol.

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

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

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

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

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

System Switch 09 (SP No. 1-101-010)		
No	Function	Comments
0	Addition of image data from confidential transmissions on the transmission result report O: Disabled 1: Enabled	If this feature is enabled, the top half of the first page of confidential messages will be printed on transmission result reports.
1	Print timing of communication reports on the Journal when no image data was exchanged. O: After DCS/NSS communication (default), 1: After polling	0: Journal is printed only when image data is sent. 1: Journal is printed when any data is sent.
2	Automatic error report printout O: Disabled 1: Enabled	0: Error reports will not be printed. 1: Error reports will be printed automatically after failed communications.
3	Printing of the error code on the error report 0: No 1: Yes	1: Error codes are printed on the error reports. This can be used for detecting an error which rarely occurs.

4	Not used	Do not change this setting.
5	Power failure report O: Disabled 1: Enabled (default)	 1: A power failure report will be automatically printed after the power is switched on if a fax message 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 dump list O: Print for all communications 1: Print only when there is a communication error	 This switch becomes effective only when system switch 00 bit 6 is set to 1. 1: Set this bit to 1 when you wish to print a protocol dump list only for communications with errors. NOTE: The memory size is limited. Use this bit switch only when some log reports are necessary.
7	 Priority given to various types of remote terminal ID when printing reports 0: RTI > CSI > Dial label > Tel. number 1: Dial label > Tel. number > RTI > CSI 	This bit determines which set of priorities the machine uses when listing remote terminal names on reports. Dial Label: The name stored, by the user, for the Quick/Speed Dial number.

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

6-7	Not used	Do not change these settings.
System	Switch OB - Not used (Do not change t	he factory settings.)
System	System Switch OC - Not used (Do not change the factory settings.)	
System	System Switch OD - Not used (Do not change the factory settings.)	

	System Switch OE (SP No. 1-101-015)		
No	Function	Comments	
0-1	Not used	Do not change the settings.	
2	Enable/disable for direct sending selection O: Direct sending off 1: Direct sending on	Direct sending cannot operate when the capture function is on during sending. Setting this switch to "1" enables direct sending without capture. Setting this switch to "0" masks the direct sending function on the operation panel so direct sending with ScanRouter cannot be selected.	
Action when the external handset goes off-hook 3 O: Manual tx and rx operation 1: Memory tx and rx operation (the display remains the same)	0: Manual tx is possible while the external handset is off-hook. However, manual tx during handset off- hook may not be sent to a correct direction. Manual tx is not possible.		
	1: Memory tx and rx operation (the	1: The display stays in standby mode even when the external handset is used, so that other people can use the machine for memory tx operation. Note that manual tx and rx are not possible with this setting.	
4-7	Not used	Do not change these settings.	

System Switch OF (SP No. 1-101-016)					
No	No Function Comments				

	Country/area coo (Hex)	de for functional settings	
	00: France	11: USA	
	01: Germany	12: Asia	
	02: UK	13: Japan	
	03: Italy	14: Hong Kong	
	04: Austria	15: South Africa	This country/area code determines the factory
	05: Belgium	16: Australia	settings of bit switches and RAM addresses.
0	06: Denmark	17: New Zealand	However, it has no effect on the NCU parameter settings and communication
to	07: Finland	18: Singapore	parameter RAM addresses. Cross reference
7	08: Ireland	19: Malaysia	NCU country code:
	09: Norway	1A: China	SP No. 2-103-001 for G3-1
	0A: Sweden	1B: Taiwan	
	OB: Switz.	1C: Korea	
	0C: Portugal	20: Turkey	
	0D: Holland	21: Greece	
	0E: Spain	22: Hungary	
	OF: Israel	23: Czech	
	10:	24: Poland	

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			

System	Switch	1	1	(SP No.	1-101-018)	
				10		

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

System Switch 12 (SP No. 1-101-019)				
No	Function	Comments		
0-7	TTI printing position in the main scan direction	TTI: 08 to 92 (BCD) mm Input even numbers only. This setting determines the print start position for the TTI from the left edge 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)

	System Switch 15 (SP No. 1-101-022)				
No	No Function Comments				
0	Not used	Do not change the settings.			

1	Going into the Energy Saver mode automatically 0: Enabled 1: Disabled		Energy Saver mode	 1: The machine will restart from the Energy Saver mode quickly, because the +5V power supply is active even in the Energy Saver mode. The LED of the operation switch 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.
2-3	Not us	ed		Do not change these settings.
	Interval for preventing the machine from entering Energy Saver mode if there is a pending transmission file.			If there is a file waiting for transmission, the machine
	Bit 5	Bit 4	Setting	does not go to Energy Saver mode during the selected period.
4-5	0	0	1 min	After transmitting the file, if there is no file waiting for
	0	1	30 min	transmission, the machine goes to the Energy Saver mode.
	1	0	1 hour	niode.
	1	1	24 hours	
6-7	Not used			Do not change

	System Switch 16 (SP No. 1-101-023)			
No	Function	Comments		
	Parallel Broadcasting	1: The machine sends messages simultaneously using all available ports during broadcasting.		
0	0: Disabled 1: Enabled	NOTE: If a customer wants to keep a line available for fax reception or other reasons, select "0" (Disable).		
1-7	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 (SP No. 1-101-026)

No	Function	Comments
0-5	Not used	Do not change the settings.
6	Extended scanner page memory after memory option is installed 0: Disabled 1: Enabled	 O: After installing the memory expansion option, the scanner page memory is extended to 4 MB from 2 MB. 1: If this bit is set to 1 after installing the memory expansion option, the scanner page memory is extended to 12 MB. But the SAF memory decreases to 18 MB.
7*	Special Original mode O: Disabled 1: Enabled	1: If the customer frequently wishes to transmit a form or letterhead which has a colored or printed background, change this bit to "1". "Original 1" and "Original 2" can be selected in addition to the "Text", "Text/Photo" and "Photo" modes.

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

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

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

System Switch 1D (SP No. 1-101-030)				
No Function Comments				
0	RTI/CSI/CPS code display O: Enable 1: Disable	0: RTI, CSI, CPS codes are displayed on the top line of the LCD panel during communication. 1: Codes are switched off (no display)		

System Switch 1E (SP No. 1-101-031)		
No	Function	Comments
	Communication after the Journal data storage area has become full 0: Impossible 1: Possible	O: When this switch is on and the journal history becomes full, the next report prints. If the journal history is not deleted, the next transmission cannot be received. This prevents overwriting communication records before the machine can print them.
0		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).
		O: If the SAF memory becomes full during scanning at the memory transmission, the successfully scanned pages are transmitted.
1*	Action when the SAF memory has become full during scanning 0: The current page is erased.	1: If the SAF memory becomes full during scanning at the memory transmission, the file is erased and no pages are transmitted.
	1: The entire file is erased.	↓ Note
		 This setting is effective only when Automatic Journal printout is enabled but the machine cannot print the report (e.g., no paper).
2	RTI/CSI display priority 0: RTI 1: CSI	This bit determines which identifier, RTI or CSI, is displayed on the LCD while the machine is communicating in G3 non-standard mode.
3	File No. printing O: Enabled 1: Disabled	1: File numbers are not printed on any reports. NOTE: The file numbers may not be printed in the sequential order. If a customer does not like this numbering, select "0".

4	Action when authorized reception is enabled but authorized RTIs/CSIs are not yet programmed O: All fax reception is disabled 1: Faxes can be received if the sender has an RTI or CSI	If authorized reception is enabled but the user has stored no acceptable sender RTIs or CSIs, the machine will not be able to receive any fax messages. If the customer wishes to receive messages from any sender that includes an RTI or CSI, and to block messages from senders that do not include an RTI or CSI, change this bit to "1", then enable Authorized Reception. Otherwise, keep this bit at "0 (default setting)".
5-7	Not used	Do not change the settings

*	This setting	can k	be used	for the	remote	machine.

	System Switch 1F (SP No. 1-101-032)		
No	Function	Comments	
0	Not used	Do not change the settings.	
1	Report printout after an original jam during SAF storage or if the SAF memory fills up O: Enabled 1: Disabled	0: When an original jams, or the SAF memory overflows during scanning, a report will be printed. Change this bit to "1" if the customer does not want to have a report in these cases. Memory tx – Memory storage report Parallel memory tx – Transmission result report	
2	Not used	Do not change this setting.	
3	Received fax print start timing (G3 reception) O: After receiving each page 1: After receiving all pages	0: The machine prints each page immediately after the machine receives it.1: The machine prints the complete message after the machine receives all the pages in the memory.	
4-6	Not used	Do not change the factory settings.	

	Action when a fax SC has occurred	0: When the fax unit detects a fax SC code other than SC1201 and SC1207, the fax unit automatically resets itself.
7	0: Automatic reset 1: Fax unit stops	 When the fax unit detects any fax SC code, the fax unit stops. Cross Reference Fax SC codes - See "Troubleshooting"

I-Fax Switches

I-fax Switch 00 (SP No. 1-102-001)			
No	Function	Comments	
Origin	al Width of TX Attachment File	This setting sets the maximum size of the original that the destination can receive. (Bits 3 to 6 are reserved for future use or not used.)	
0	A4		
1	B4		
2	A3	-	
3-6	Reserved		
7	Not used		
	0: Off (not selected), 1: On (selected)		
	If more than one of these three bits is set to "1", the larger size has priority. For example, if both Bit 2 and Bit 1 are set to "1" then the maximum size is "A3" (Bit 2).		
When mail is sent, there is no negotiation with the receiving machine a sending machine cannot make a selection for the receiving capabilities setting) of the receiving machine. The original width selected with this s machine's original width setting, and the original is reduced to this size default is A4.		ction for the receiving capabilities (original width original width selected with this switch is used as the RX	
	If the width selected with this switch is higher than the receiving machine can accept, the machine detects this and this causes an error.		

I-fax Switch 01 (SP No. 1-102-002)

No	Function	Comments	
Origino	al Line Resolution of TX Attachment File	These settings set the maximum resolution of the original that the destination can receive.	
0	200x100 Standard		
1	200x200 Detail	0: Not selected	
2	200x400 Fine	1: Selected	
3	300 x 300 Reserve	If more than one of these three bits is set to "1", the	
4	400 x 400 Super Fine	higher resolution has priority. For example, if both Bit O and Bit 2 are set to "1" Then The Resolution is set for	
5	600 x 600 Reserve	"Bit 2 200 x 400.	
6	Reserve		
7	mm/inch		
	 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 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 inches are sent in inches. 		
	 Images received in mm are converted to inches. 		
	I-fax Switch O	2 (SP No. 1-102-003)	

No	Function	Comments	

	RX Text Mail Header Processing
	This setting determines whether the header information is printed with text e-mails when they are received.
	O: Prints only text mail.
0	1: Prints mail header information attached to text mail.
	When a text mail is received with this switch On (1), the "From" address and "Subject" address are printed as header information.
	When a mail with only binary data is received (a TIFF-F file, for example), this setting is ignored and no header is printed.
	Output from Attached Document at E-mail TX Error
1	This setting determines whether only the first page or all pages of an e-mail attachment are printed at the sending station when a transmission error occurs. This allows the customer to see which documents have not reached their intended destinations if sent to the wrong e-mail addresses, for example.
	O: Prints 1 st page only.
	1: Prints all pages.
	Text String for Return Receipt
2-3	This setting determines the text string output for the Return Receipt that confirms the transmission was received normally at the destination.

00: "Dispatched"
Sends from PC mail a request for a Return Receipt. Receives the Return Receipt with "dispatched" in the 2nd part:
Disposition: Automatic-action/MDN-send automatically; dispatched
The "dispatched" string is included in the Subject string.
01: "Displayed"
Sends from PC mail a request for a Return Receipt. Receives the Return Receipt with "displayed" in the 2nd part:
Disposition: Automatic-action/MDN-send automatically; displayed
The "displayed" string is included in the Subject string.
10: Reserved
11: Reserved
A mail requesting a Return Receipt sent from an IFAX with this switch set to "00" (for "dispatched") received by Microsoft Outlook 2000 may cause an error. If any setting other than "displayed" (01) causes a problem, change the setting to "01" to enable normal sending of the Return Receipt.
Media accept feature
This setting adds or does not add the media accept feature to the answer mail to confirm a reception.
0: Does not add the media accept feature to the answer mail
1: Adds the media accept feature to the answer mail.
Use this bit switch if a problem occurs when the machine receives an answer mail, which contains the media accept feature field.
Not Used
Image Resolution of RX Text Mail
This setting determines the image resolution of the received mail.
0: 200 x 200
1: 400 x 400
The "1" setting requires installation of the Function Upgrade Card in order to have enough

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

I-fax Switch 04 (SP No. 1-102-005)			
No	Function	Comments	
	Subject for Delivery TX/Memory Transfer		
	This setting determines whether the RTI/CSI registered on this machine or the RTI/CSI of the originator is used in the subject lines of transferred documents.		
0	0: Puts the RTI/CSI of the originator in the Subject line. If this is used, either the RTI or CSI is used. Only one of these can be received for use in the subject line.		
	1: Puts the RTI/CSI registered on this r	nachine 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.		
	Subject corresponding to mail post database		
	0: Standard subject		
	1: Mail post database subject		
	The standard subject is replaced by the mail post database subject in the following three cases:		
1	1) When the service technician sets the service (software) switch.		
1	2) When memory sending or delivery specified by F code is applied by the SMTP server		
	3) With relay broadcasting (1 st stage without the Schmidt 4 function).		
	Note		
	 This switch does not apply for condition 3) when the RX system is set up for memory sending, delivery by F-code, sending with SMTP RX and when operators are using FOL (to prevent problems when receiving transmissions). 		
2-7	Not Used		

	I-fax Switch 05 (SP No. 1-102-006)			
No	No Function Comments			

	Mail Addresses of SMTP Broadcast Recipients		
0	Determines whether the e-mail addresses of the destinations that receive transmissions broadcasted using SMTP protocol are recorded in the Journal.		
	For example:		
Ū	"1 st destination + Total number of destinations: 9" in the Journal indicates a broadcast to 9 destinations.		
	0: Not recorded		
	1: Recorded		
1		Determines whether the machine retries sending IFAX when connection and transmission fails due to errors.	
	IFAXTX Retries	0: Disabled	
		1: Enabled	
2-7	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 (SP No. 1-102-009)			
No Function Comments			
	Memory Threshold for POP Mail Reception		
0-7	This setting determines the amount of SAF (Store and Forward) memory. (SAF stores fax messages to send later for transmission to more than one location, and also holds incoming messages if they cannot be printed.) When the amount of SAF memory available falls below this setting, mail can no longer be received; received mail is then stored on the mail server.		
	00-FF (0 to 1024 KB: HEX)		
The hexadecimal number you enter is multiplied by 4 KB to determine the amoun		is multiplied by 4 KB to determine the amount of memory.	

I-fax Switch 09 (SP No. 1-102-010)		
No	Function	Comments
0-3	Not used	Do not change the settings

4-7	Restrict TX Retries	This setting determines the number of retries when connection and transmission fails due to errors.
		01-F (1-15 Hex)

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

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

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

I-fax Switch OD (SP No. 1-102-014)				
No	Function		unction	Comments
0-1	Not used			Do not change the settings
		signature v n of the ser	vhen sending mail nd results	
	Bit 2	Bit 3	Setting	
2-3	0	0	No sign	In response to IEEE2600.1.
	0	1	No setting	
	1	0	Individual setting	
	1	1	Always sign	
4-5	Select the	signature	when sending mail.	
	Bit 5	Bit 4	Setting	
	0	0	No sign	
	0	1	No setting	In response to IEEE2600.1.
	10Individual setting11Always sign		Individual setting	
			Always sign	
6-7	Not used			Do not change the settings.

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

I-fax Switch OF (SP No. 1-102-016)				
No	Function	Comments		
	Delivery Method for SMTP RX Files			
0	This setting determines whether files received with SMTP protocol are delivered or output immediately.			
	0: Off. Files received via SMTP are or	utput immediately without delivery.		
	1: On. Files received via SMTP are delivered immediately to their destinations.			
	Signature for the SMTP			
1	This setting determines whether a signature is put on an e-mail via SMTP.			
	0: No signature			
	1: Signature			
	Encryption for the SMTP			
2	This setting determines whether an e-mail via SMTP is encrypted.			
	0: Not encrypted			
	1: Encrypted			
3-7	Not used			

Printer Switches

	Printer Switch 00 (SP No. 1-103-001)		
No Function Comments			

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

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

Relationship between available paper sizes and printer width used in the setup protocol

Available Paper Size	Printer width used in the Protocol (NSF/DIS)
A4 or 8.5" x 11"	297 mm width
В5	256 mm width
A5 or 8.5" x 5.5"	216 mm width
No paper available (Paper end)	216 mm width

Printer Switch 02 (SP No. 1-103-003)			
No	Function	Comments	
	1 st paper feed station usage for fax printing	0: Enabled	
0*	0: Enabled 1: Disabled	The paper feed station can be used to print fax messages and reports.	
1*	2nd paper feed station usage for fax printing	1: Disabled The specified paper feed station will not be used for printing fax messages and reports.	
2*	3rd paper feed station usage for fax printing	 Note Do not disable usage for a paper feed station 	
3*	4th paper feed station usage for fax printing	which has been specified by User Parameter Switch OF (15), or which is used for the	
4*	LCT usage for fax printing	Specified Cassette Selection feature.	
5-7	Not used	Do not change the settings.	

	Printer Switch 03 (SP No. 1-103-004)			
No Function Comments				
		0: Incoming pages are printed without length reduction.		
0*	Length reduction of received data 0: Disabled	(Page separation threshold: Printer Switch 03, bits 4 to 7)		
	1: Enabled	1: Incoming page length is reduced when printing.		
		(Maximum reducible length: Printer Switches 04, bits 0 to 4)		
1-3	Not used	Do not change the settings		

		Page separation threshold (with reduction disabled with switch 03-0 above).
4 to 7	Page separation setting when sub scan compression is forbidden	For example, if this setting is set to "10", and A4 is the selected paper size:
	00-0F (0-15 mm: Hex) Default: 6 mm	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.

Printer Switch 04 (SP No. 1-103-005)							
No	Function Comments						
	[Maximum rec	Maximum reducible length when length reduction is enabled with switch 03-0 above. [Maximum reducible length] = [Paper length] + (N x 5mm) "N" is the decimal value of the binary setting of bits 0 to 4.					
	Bit 4	Bit 3	Bit 2	Bit 1	Bit O	Setting	
0	0	0	0	0	0	0 mm	
to 4	0	0	0	0	1	5 mm	
4	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)						
	Length of the duplicated image on the next page, when page separation has taken place.						
	Bi	it 6		Bit 5 Setting		etting	
5	0		0		4 mm		
6	0		1		10 mm		
	1		0		15 mm		
	1			1 Not used			
7	Not used.		Do not	Do not change the setting.			

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

Printer Switch 07 (SP No. 1-103-008)				
No Function		Comments		
0-3	Not used.	Do not change the settings.		
4	Receiver name printed on the transmission result report	Selects the printing target on the transmission result report. O: All receivers 1: Printing only receivers which have received fax transmission.		
5-7	5-7 Not used. Do not change the settings.			

Printer Switch 08 – Not used (do not change the settings)
Printer Switch 09 – Not used (do not change the settings)
Printer Switch OA – Not used (do not change the settings)
Printer Switch OB - Not used (do not change the settings)
Printer Switch OC - Not used (do not change the settings)
Printer Switch OD - Not used (do not change the settings)

			Printer Switch OE (SP	No. 1-103-015)
No	Function			Comments
	Paper size selection priority 0* 0: Width 1: Length		tion priority	0: A paper size that has the same width as the received data is selected first.
0*				1: A paper size which has enough length to print all the received lines without reduction is selected first.
1*	fax date	a	ted for printing A4 width	This switch determines which paper size is selected for printing A4 width fax data, when
	0: 8.5" 1: A4 s	x 11" siz ize	ze	the machine has both A4 and 8.5" x 11" size paper.
2	Page separation O: Enabled 1: Disabled			 If all paper sizes in the machine require page separation to print a received fax message, the machine does not print the message (Substitute Reception is used). After a larger size of paper is set in a cassette, the machine automatically prints the fax message.
	Printing	the sam	ple image on reports	
	Bit 4	Bit 3	Setting	"Same size" means the sample image is printed
	0	0	The upper half only	at 100%, even if page separation occurs.
3-4	0	1	50% reduction (sub-scan only)	User Parameter Switch 19 (13H) bit 4 must be set to "O" to enable this switch. Refer to Detailed Section Descriptions for more
	1	0	Same size	on this feature.
	1	1	Not used	
5-6	Not use	ed		Do not change the settings.
	separat	ed page		O: When page separation has taken place, all the pages are reduced with the same reduction ratio.
7	(Page Separation) O: Enabled 1: Disabled			1: Only the last page is reduced to fit the selected paper size when page separation has taken place. Other pages are printed without reduction.

	Printer Switch OF (SP No. 1-103-016)					
No	Function			Comments		
	Smoothing feature					
	Bit 1	Bit O	Setting			
0.1*	0	0	Disabled	(0, 0) (0, 1): Disable smoothing if the		
0-1*	0	1	Disabled	 machine receives halftone images from other manufacturers fax machines frequently. 		
	1	0	Enabled			
	1	1	Not used			
2*	Duplex printing 0: Disabled 1: Enabled			1: The machine always prints received fax messages in duplex printing mode:		
3	Binding direction for Duplex printing O: Left binding 1: Top binding			0: Sets the binding for the left edge of the stack.1: Sets the binding for the top of the stack.		
4-7	Not used			Do not change the settings.		

* This setting can be used for the remote machine.

Communication Switches

Communication Switch 00 (SP No. 1-104-001)			
No Function Comments			

	Compress	ion modes av	vailable in receive mode		
	Bit 1	Bit O	Modes		
0-1	0	0	MH only	These bits determine the compression	
0-1	0	1	MH/MR	capabilities to be declared in phase B (handshaking) of the T.30 protocol.	
	1	0	MH/MR/MMR		
	1	1	MH/MR/MMR/JBIG		
	Compress	ion modes av	vailable in transmit mode		
	Bit 3	Bit 2	Modes		
2-3	0	0	MH only	These bits determine the compression capabilities to be used in the	
2-3	0	1	MH/MR	transmission and to be declared in phase B (handshaking) of the T.30 protocol.	
	1	0	MH/MR/MMR	b (handshaking) of the 1.00 protocol.	
	1	1	MH/MR/MMR/JBIG		
4	Not used			Do not change the settings.	
5	JBIG compression method: Reception 0: Only basic supported 1: Basic and optional both supported			Change the setting when communication problems occur using JBIG compression.	
	JBIG comp	oression meth	nod: Transmission		
6		ode priority		Change the setting when communication problems occur using JBIG compression.	
	1: Optional mode priority		rity		
	Closed network (reception)			1: Reception will not go ahead if the polling ID code of the remote terminal	
7	0: Disabled 1: Enabled			does not match the polling ID code of the local terminal. This function is only available in NSF/NSS mode.	

	Communication Switch 01 (SP No. 1-104-002)				
No	No Function Comments				

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

Communication Switch 02 (SP No. 1-104-003)			
No Function Comm		Comments	

	G3 Burst error threshold	received pag will send a ne threshold valu	ore consecutive error lines in the e than the threshold, the machine egative response. The Low and High ues depend on the sub-scan d are as follows.
0	0: Low 1: High	100 dpi	6(L) → 12(H)
		200 dpi	12(L) → 24(H)
		300 dpi	18(L) → 36(H)
		400 dpi	24(L) → 48(H)
1	Acceptable total error line ratio 0: 5% 1: 10%		e ratio for a page exceeds the atio, RTN will be sent to the other
2	Treatment of pages received with errors during G3 reception O: Deleted from memory without printing 1: Printed	O: Pages rece	vived with errors are not printed.
	Hang-up decision when a negative code	0: The next po is received.	age will be sent even if RTN or PIN
3	(RTN or PIN) is received during G3 immediate transmission	1: The machir receives RTN	ne will send DCN and hang up if it or PIN.
	0: No hang-up, 1: Hang-up	This bit is igno ECM is being	ored for memory transmissions or if used.
4-7	Not used	Do not chang	e these settings.

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

Communication Switch 04 (SP No. 1-104-005)			
No	Function	Comments	

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

Communication Switch 05 (SP No. 1-104-006)			
No Function		Comments	
0-3	Remote mode switch number 00-09 (0-9:HEX)	Enter the number to switch between TEL/FAX modes using the external phone.	
4-7	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 (SP No. 1-104-010)			
No Function		Comments	
0-7	Minimum interval between automatic dialing attempts	This value is the minimum time that the machine waits before it dials the next destination.	

Communication Switch OA (SP No. 1-104-011)			
No	Function	Comments	

4

0	Point of resumption of memory transmission upon redialing O: From the error page 1: From page 1	0: The transmission begins from the page where transmission failed the previous time.1: Transmission begins from the first page, using normal memory transmission.
1-7	Not used	Do not change these settings.

	Communication Switch OB (SP No. 1-104-012)			
No	Function	Comments		
0-3	Not used	Do not change the settings.		
4	Printout of the message when acting as a Transfer Station O: Disabled, 1: Enabled	When the machine is acting as a Transfer Station, this bit determines whether the machine prints the fax message coming in from the Requesting Terminal.		
5-7	Not used	Do not change the settings.		

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

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

	Communication Switch OE (SP No. 1-104-015)		
No	Function	Comments	

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		O6 to FF (Hex), unit = 2 s
0-7	Minimum interval between	(e.g., 06(H) = 12 s)
	automatic dialing attempts	This value is the minimum time that the machine waits before it dials the next destination.

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

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

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

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

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

Communication Switch 14 (SP No. 1-104-021)		
No	Function	Comments

	Inch-to-mm conversion during transmission O: Disabled, 1: Enabled			O: In immediate transmission, data scanned in inch format are transmitted without conversion.
				In memory transmission, data stored in the SAF memory in mm format are transmitted without conversion.
0			-	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.
1-5	Not used			Do not change the factory settings.
	Available unit of resolution in which fax messages are received			
	Bit 7	Bit 6	Unit	For the best performance, do not change the factory settings.
6-7	0	0	mm	The setting determined by these bits is
	0	1	inch	informed to the transmitting terminal in the pre- message protocol exchange (in the DIS/NSF
	1	0	mm and inch	frames).
	1	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 (SP No. 1-104-024)			
No	Function	Comments		
0	SEP reception O: Disabled 1: Enabled	O: Polling transmission to another maker's machine using the SEP (Selective Polling) signal is disabled.		

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

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

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

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

Communication Switch 1B (SP No. 1-104-028)

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

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

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)			

G3 Switches

	G3 Switch 00 (SP No. 1-105-001)				
No	Function	Comments			

0	Monitor speaker during communication (tx and rx)		er during communication (tx	– (0, 0): The monitor speaker is disabled all		
	Bit 1	Bit O	Setting	through the communication. (0, 1): The monitor speaker is on up to phase B i the T.30 protocol.		
	0	0	Disabled			
	0	1	Up to Phase B	(1, 0): Used for testing. The monitor speaker is on		
	1	0	All the time	all through the communication. Make sure that you reset these bits after testing.		
	1	1	Not used	,g.		
2	Monitor speaker during memory transmission 0: Disabled 1: Enabled			1 : The monitor speaker is enabled during memory transmission.		
3-5	Not used			Do not change the settings.		
6	Dedicated G3 line mode selection		ine mode selection	Set this bit to 1 when you wish to dedicate a line for G3.		
	0: Off 1: On (Dedicated)		edicated)			
7	Not used			Do not change this setting.		

G3 Switch 01 (SP No. 1-105-002)				
No	Function	Comments		
0-3	Not used	Do not change the settings.		
4	DIS frame length 0: 10 bytes 1: 4 bytes	1: The bytes in the DIS frame after the 4th byte will not be transmitted (set to 1 if there are communication problems with PC-based faxes which cannot receive the extended DIS frames).		
5	Not used	Do not change the setting.		
6	Forbid CED/ANsam output 0: Off 1: On (Forbid output)	Do not change this setting (Default: 0: Off), unless communication problem is caused by a CED or ANSam transmission.		
7	Not used	Do not change the setting.		

G3	Switch	02	(SP	No.	1-10	5-003)
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No	Function	Comments
0	G3 protocol mode used O: Standard and non-standard 1: Standard only	Change this bit to 1 only when the other end can only communicate with machines that send T.30-standard frames only. 1: Disables NSF/NSS signals (these are used in non- standard mode communication)
1-6	Not used	Do not change the settings.
7	Short preamble 0: Disabled 1: Enabled	Refer to Appendix B in the Group 3 Facsimile Manual for details about Short Preamble.

	G3 Switch 03 (SP No. 1-105-004)					
No	Function	Comments				
0	DIS detection number (Echo countermeasure) 0: 1 1: 2	0: The machine will hang up if it receives the same DIS frame twice.1: Before sending DCS, the machine will wait for the second DIS which is caused by echo on the line.				
1	Not Used	Do not change the settings.				
2	V.8 protocol O: Disabled 1: Enabled	 0: V.8/V.34 communications will not be possible. Note Do not set to 0 unless the line condition is always bad enough to slow down the data rate to 14.4 kbps or lower. 				
3	ECM frame size 0: 256 bytes 1: 64 bytes	Keep this bit at "0" in most cases.				

4	CTC transmission conditions O: After one PPR signal received 1: After four PPR signals received (ITU-T standard)	 0: When using ECM in non-standard (NSF/NSS) mode, the machine sends a CTC to drop back the modem rate after receiving a PPR, if the following condition is met in communications at 14.4, 12.0, 9.6, and 7.2 kbps. √N Transmit ≤ N Resend NTransmit- Number of transmitted frames NResend- Number of frames to be retransmitted 1: When using ECM, the machine sends a CTC to drop back the modem rate after receiving four PPRs. PPR, CTC: These are ECM protocol signals. This bit is not effective in V.34 communications.
5	Modem rate used for the next page after receiving a negative code (RTN or PIN) 0: No change 1: Fallback	1: The machine's tx modem rate will fall back before sending the next page if a negative code is received. This bit is ignored if ECM is being used.
6	Not used	Do not change the settings
7	Select detection of reverse polarity in ringing 0: Off 1: On	This switch is used to prevent reverse polarity in ringing on the phone line (applied to PSTN-G3 ringing). Do not change this setting 0: No detection (Outside Japan) 1: Detection (Inside Japan only)

G3 Switch 04 (SP No. 1-105-005)						
No	Function	Comments				
		0 - F (Hex); 0 - 15 bits				
0-3	Training error 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.				
4-7	Not used	Do not change the settings.				

G3 Switch 05 (SP No. 1-105-006)					
No	Function	Comments			

	Initial Tx	modem r	ate (kbps)		
	Bit 3	Bit 2	Bit 1	Bit O	kbps	
	0	0	0	1	2.4	
	0	0	1	0	4.8	-
	0	0	1	1	7.2	-
	0	1	0	0	9.6	These bits set the initial starting modem rate for
	0	1	0	1	12.0	transmission.
	0	1	1	0	14.4	Use the dedicated transmission parameters if you need to change this for specific receivers.
0-3	0	1	1	1	16.8	If a modem rate 14.4 kbps or slower is
	1	0	0	0	19.2	selected, V.8 protocol should be disabled manually.
	1	0	0	1	21.6	Cross reference
	1	0	1	0	24.0	V.8 protocol on/off - G3 switch 03, bit 2
	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 se	ttings - No	ot used			
	Initial ma	odem type	e for 9.6 k	or 7.2 kl	bps.	
	Bit 5	Bit 4		Setting		These bits set the initial modem type for 9.6 and 7.2 kbps, if the initial modem rate is set at these speeds.
4-5	0	0		V.29		
	0	1		V.17		
	1	0		V.34		
	1	1		Not use	d	
6-7	Not used	ł				Do not change the settings.

G3 Switch 06 (SP No. 1-105-007)

No			Function			Comments
	Initial Rx	modem ro	ate(kbps)			
	Bit 3	Bit 2	Bit 1	Bit O	kbps	
	0	0	0	1	2.4	
	0	0	1	0	4.8	
	0	0	1	1	7.2	
	0	1	0	0	9.6	These bits set the initial starting modem rate
	0	1	0	1	12.0	for reception.
	0	1	1	0	14.4	Use a lower setting if high speeds pose problems during reception.
0-3	0	1	1	1	16.8	If a modem rate 14.4 kbps or slower is
	1	0	0	0	19.2	selected, V.8 protocol should be disabled manually.
	1	0	0	1	21.6	Cross reference
	1	0	1	0	24.0	V.8 protocol on/off - G3 switch 03, bit2
	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 se	ttings - No	ot used			

Modem types available for reception

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

		-
4	-	1

	Bit 7	Bit 6	Bit 5	Bit 4	Types			
-7	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 Net used							

	G3 Switch 07 (SP No. 1-105-008)								
No		Fui	nction	Comments					
	PSTN cab (tx mode:	ole equalize Internal)	er	Use a higher setting if there is signal loss at higher frequencies because of the length of wire between the modem and the telephone					
	Bit 1	Bit O	Setting	exchange.					
	0	0	None	Use the dedicated transmission parameters for specific receivers.					
0-1	0	1	Low	Also, try using the cable equalizer if one or					
01	1	0	Medium	more of the following symptoms occurs.					
	1	1	High	Communication error Modem rate fallback occurs frequently.					
				♦ Note					
				• This setting is not effective in V.34 communications.					

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	PSTN cable e (rx mode: Inte	•		Use a higher setting if there is signal loss at higher frequencies because of the length of
	Bit 3	Bit 2	Setting	wire between the modem and the telephone
	DII 3		Sening	exchange.
	0	0	None	Also, try using the cable equalizer if one or more of the following symptoms occurs.
2-3	0	1	Low	Communication error with error codes such as
	1	0	Medium	0-20, 0-23, etc.
	1	1	High	Modem rate fallback occurs frequently.
				• This setting is not effective in V.34 communications.
	PSTN cable e	qualizer		Keep this bit at "1".
	(V.8/V.17 rx	mode: Externa	1)	
4	0: Disabled			
	1: Enabled			
5	Not used			Do not change the settings.
	Parameter sel	ection for dial	tone	0: This uses the fixed table in the ROM for dial tone detection.
6	detection			1: This uses the specific parameter adjusted
	0: Normal pa	rameter		with SRAM (69ECBEH - 69ECDEH). Select
	1: Specific pa	rameter		this if the dial tone cannot be detected when the "Normal parameter: 0" is selected.
7	Not used			Do not change the settings.

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

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

	G3 Switch 0A (SP No. 1-105-011)		
No	Function	Comments	

	Maximum allowable carrier drop during image data reception			
	Bit 1 Bit 0 Value (ms)		Value (ms)	These bits set the acceptable modem carrier
0-1	0			drop time.
	0	1	400	Try a longer setting if error code 0-22 is frequent.
	1	0	800	
	1	1	Not used	-
2	Select cancellation of high-speed RX if carrier signal lost while receiving 0: Off 1: On			This switch setting determines if high-speed receiving ends if the carrier signal is lost when receiving during non-ECM mode
3	Not use	ed		Do not change the settings
4	Maximum allowable frame interval during image data reception. 0: 5 s 1: 13 s		•	This bit set the maximum interval between EOL (end-of-line) signals and the maximum interval between ECM frames from the other end. Try using a longer setting if error code 0-21 is frequent.
5	Not used			Do not change the settings.
6	Reconstruction time for the first line in receive mode 0: 6 s 1: 12 s		me for the first line in	When the sending terminal is controlled by a computer, there may be a delay in receiving page data after the local machine accepts set- up data and sends CFR. This is outside the T.30 recommendation. But, if this delay occurs, set this bit to 1 to give the sending machine more time to send data. Refer to error code 0-20. ITU-T T.30 recommendation: The first line
				should come within 5 s of CFR.
7	Not used			Do not change the settings.

G3 Switch OB Not used (do not change the settings).

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

G3 Switch OD Not used (do not change the settings).

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

G3 Switch 0F (SP No. 1-105-016)				
No Function Comments		Comments		
0	Alarm when an error occurred in Phase C or later	If the customer wants to hear an alarm after each error		
	0: Disabled	communication, change this bit to "1".		
	1: Enabled			

1	Alarm when the handset is off- hook at the end of communication O: Disabled 1: Enabled	If the customer wants to hear an alarm if the handset is off-hook at the end of fax communication, change this bit to "1".
2-3	Not used	Do not change these settings.
4	Sidaa manual calibration setting 0: Off 1: On	1: manually calibrates for communication with a line, whose current change occurs such as an optical fiber line.
5-7	Not used	Do not change the settings.

IP Fax Switches

	IP Fax Switch 00 (SP No. 1-111-001)			
No. Function		Comments		
0	Not used	Do not change this setting.		
1	IP Fax Transport 0: TCP, 1: UDP	Selects TCP or UDP protocol for IP-Fax		
2	IP Fax single port selection 0: OFF, 1: ON (enable)	Selects single data port.		
3	IP Fax double ports (single data port) selection 0: OFF, 1: ON (enable)	Selects whether IP-Fax uses a double port.		
4	IP Fax Gatekeeper 0: OFF, 1: ON (enable)	Enables/disables the gatekeeper for IP-Fax.		
5	IP Fax T30 bit signal reverse O: LSB first, 1: MSB first	Reverses the T30 bit signal.		
6	IP Fax max bit rate setting O: Not affected, 1: Affected	When "O" is selected, the max bit rate does not affect the value of the DIS/DCS. When "1" is selected, the max bit rate affects the value of the DIS/DCS.		

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		When "0" is selected, fax data is received without checking the telephone number.	
7	IP Fax received telephone number confirmation 0: No confirmation, 1: Confirmation	When "1" is selected, fax data is received only when confirming that the telephone number from the sender matches the registered telephone	
		number in this machine. If this confirmation fails, the line is disconnected.	

IP Fax Switch 01 (SP No. 1-111-002)					
No.	Function				Comments
	Selects the ac Level 0 is the l	IP Fax delay level setting Selects the acceptable delay level. Level 0 is the highest quality Default is "0000" (level 0).			
0-3	Bit 3	Bit 2	Bit 1	Bit O	
	0	0	0	0	Level O
	0	0	0	1	Level 1
	0	0	1	0	Level 2
	0	0	1	1	Level 3
4-7	IP Fax preamble wait time setting		tting	combination. Waiting time: set v	es in this 4-bit binary switch alue level x 100 ms) Min: 00 (No wait time)

	IP Fax Switch 02 (SP No. 1-111-003)		
No.	No. Function Comments		

0	IP Fax bit signal reverse setting O: Maker code setting 1: Internal bit switch setting	When "O" is selected, the bit signal reverse method is decided by the maker code. When "1" is selected, the bit signal reverse method is decided by the internal bit switch. When communicating between IP Fax devices, LSB first is selected.)
1	IP Fax transmission speed setting 0: Modem speed 1: No limitation	Selects the transmit speed for IP Fax communication.
2	SIP transport setting 0: TCP 1: UDP	This bit switch sets the transport that has priority for receiving IP Fax data. This function is activated only when the sender has both TCP and UDP.
3	CCM connection 0: No CCM connection 1: CCM connection	When "1" is selected, only the connection call message with H.323 or no tunneled H.245 is transmitted via CCM.
4	Message reception selection from non- registered SIP server O: Answer 1: Not answer	0: This answers the INVITE message from the SIP server not registered for the machine.1: This does not receive the INVITE message from the SIP server not registered for the machine and send a refusal message.
5	ECM communication setting 0: No limit for image compression 1: Limit for image compression	 0: This does not limit the type of the image compression with ECM communication. 1: When the other end machine is Ciscco, this permits the image compression other than JBIG or MMR with ECM communication.
6-7	Not used	Do not change these settings.

	IP Fax Switch 03 (SP No. 1-111-004)				
No.	Function	Comments			
0	Effective field limitation for G3 standard function information 0: OFF, 1: 4byte (DIS)	Limits the effective field for standard G3 function information.			

1	Switching between G3 standard and G3 non standard O: Enable switching 1: G3 standard only	Enables/disables switching between G3 standard and G3 non-standard.
2	Not used	Do not change this setting.
3	ECM frame size selection at transmitting 0: 256byte, 1: 64byte	Selects the ECM frame size for sending.
4	DIS detection times for echo prevention 0: 1 time, 1: 2 times	Sets the number of times for DIS to detect echoes.
5	CTC transmission selection O: PPRx1 1: PPRx4	When "O" is selected, the transmission condition is decided by error frame numbers. When "1" is selected, the transmission condition is based on the ITU-T method.
6	Shift down setting at receiving negative code 0: OFF, 1: ON	Selects whether to shift down when negative codes are received.
7	Not used	Do not change this setting.

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

IP Fax Switch 05 (SP No. 1-111-006)		
No.	Function	Comments

	Modem	bit rate s	etting for tro	ansmission	(kbps)	
	Bit 3	Bit 2	Bit 1	Bit O	kbps	
	0	0	0	1	2.4	
0-3	0	0	1	0	4.8	Sets the modem bit rate for transmission.
0-3	0	0	1	1	7.2	The default is "0110" (14.4K bps).
	0	1	0	0	9.6	
	0	1	0	1	12.0	
	0	1	1	0	14.4	
	Modem setting for transmission					
	Bit 5	5	Bit 4	Т	ypes	
4-5	0		0		V29	Sets the modem type for transmission.
4-5	0		1		V17	The default is "00" (V29).
	1		0	No	ot used	
	1		1	No	ot used	
6-7	Not used	ł				Do not change these settings.

IP Fax Switch 06 (SP No. 1-111-007)					
No.	No. Function Comments				
0-3	0-3 Modem bit rate setting for reception Sets the modem bit rate for reception. The default is "0110" (14.4K bps).				

	Modem set	ting for recep	tion		
	Sets the modem type for reception. The default is "0100" (V27ter, V29, V17).				
	Bit 7	Bit 6	Bit 5	Bit 4	Types
	0	0	0	1	V.27ter
4-7	0	0	1	0	V.27ter, V.29
	0	0	1	1	V.27ter, V.29, V.33
	0	1	0	0	V.27ter, V.29, V.17/V.33
	Other settin	gs - Not used			

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

	(SP No. 1-111-009)			
No.	Function			Comments
	T1 timer adju	stment		
	Bit 1	Bit O		
0-1	0	0	35 s	Adjusts the T1 timer.
0-1	0	1	40 s	The default is "00" (35 seconds).
	1	0	50 s	
	1	1	60 s	
	T4 timer adju	stment		
	Bit 3	Bit 2		
2-3	0	0	3 s	Adjust the T4 timer.
2-3	0	1	3.5 s	The default is "00" (3 seconds).
	1	0	4 s	
	1	1	5 s	
	T0 timer adju	stment	<u>.</u>	
	Bit 5	Bit 4		Adjusts the fail safe timer. This timer sets the
4-5	0	0	75 s	 interval between "setup" data transmission and T. 38 phase decision. If your destination return is
4-5	0	1	120 s	late on the network or G3 fax return is late, adjust the longer interval timer.
	1	0	180 s	The default is "00" (75 seconds).
	1	1	240 s	
6-7	Not used			Do not change these settings.

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

0	Network I/F setting for SIP connection 0: IPv4 1: IPv6.			Selects the connection type (IPV4 or IPV6) to connect to the SIP server.		
1	Network I/F setting for Fax communication O: Same setting as SIP server connection 1: Automatic setting			 0: The I/F setting for fax communication follows the setting for SIP server connection. 1: The negotiation between the SIP server and the device decides whether IPv4 or IPv6 is used for the I/F setting for fax communication. 		
2	Record-route setting O: Disable 1: Enable			0: Disables the record-route function of the SIP server.1: Enables the record-route function of the SIP server.		
	re-INVITE tra setting	nsmission delc	ıy timer			
	Bit 4	Bit 3				
3-4	0	0	No delay	This changes the interval for transmit re-INVITE after receiving the ACK message transmitted by T.		
	0	1	l sec	38 device.		
	1	0	2 sec			
	1	1	3 sec			
5-7	Not used.			Do not change these settings.		

IP Fax Switch OA– Only for Japan use (do not change the settings)		
IP Fax Switch OB – Only for Japan use (do not change the settings)		
IP Fax Switch OC – Only for Japan use (do not change the settings)		
IP Fax Switch OD – Only for Japan use (do not change the settings)		

	IP Fax Switch OE (SP No. 1-111-015)				
No	Function	Comments			
0-1	SIP: IP-FAX port mode (UDP) 00: 3 port mode 01: 2 port mode 10: 1 port mode	Switch the port mode for IP-FAX (T38 transport: UDP) at SIP call control.			
2-3	SIP: IP-FAX port mode (TCP) 00: 3 port mode 01: 2 port mode 10: 1 port mode	Switch the port mode for IP-FAX (T38 transport: TCP) at SIP call control.			

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.

• Note

- The following addresses describe settings for the standard NCU.
- Change the fourth digit from "5" to "6" (e.g. 680500 to 680600) for the settings for the first optional G3 interface unit and from "5" to "7" (e.g. 680700) for the settings for the second optional G3 interface unit.

Address	Function						
	Country/Area	Country/Area code for NCU parameters					
			am the country m it using SP2	/area code direct -103-001	ly into this ad	dress, or use	
	Country /Area	Decimal	Hex	Country /Area	Decimal	Hex	
	France	00	00	USA	17	11	
	Germany	01	01	Asia	18	12	
	UK	02	02	Hong Kong	20	14	
	Italy	03	03	South Africa	21	15	
	Austria	04	04	Australia	22	16	
680500	Belgium	05	05	New Zealand	26	17	
	Denmark	06	06	Singapore	24	18	
	Finland	07	07	Malaysia	25	19	
	Ireland	08	08	China	26	1A	
	Norway	09	09	Taiwan	27	1 B	
	Sweden	10	0A	Korea	28	1C	
	Switzerland	11	OB	Turkey	32	20	
	Portugal	12	0C	Greece	33	21	
	Holland	13	OD	Hungary	34	22	
	Spain	14	OE	Czech	35	23	
	Israel	15	OF	Poland	36	24	

Address	Function	Unit	Remarks	
680501	Line current detection time	20 ms		Line current detection is
680502	Line current wait time		disabled. Line current is not detected if	
680503	Line current drop detect time		680501 contains FF.	

Address	Function	Unit	Remarks
680504	PSTN dial tone frequency upper limit (high byte)		If both addresses contain
680505	PSTN dial tone frequency upper limit (low byte)	Hz (BCD)	FF(H), tone detection is disabled.
680506	PSTN dial tone frequency lower limit (high byte)		If both addresses contain
680507	PSTN dial tone frequency lower limit (low byte)	Hz (BCD)	FF(H), tone detection is disabled.
680508	PSTN dial tone detection time		
680509	PSTN dial tone reset time (LOW)	-	If 680508 contains FF(H), the machine pauses for the
68050A	PSTN dial tone reset time (HIGH)	-	pause time (address
68050B	PSTN dial tone continuous tone time	20 ms	68050D / 68050E). Italy: See Note 2.
68050C	PSTN dial tone permissible drop time		
68050D	PSTN wait interval (LOW)	_	
68050E	PSTN wait interval (HIGH)	_	-
68050F	PSTN ring-back tone detection time	20 ms	Detection is disabled if this contains FF.
680510	PSTN ring-back tone off detection time	20 ms	-
680511	PSTN detection time for silent period after ring-back tone detected (LOW)	20 ms	-
680512	PSTN detection time for silent period after ring-back tone detected (HIGH)	20 ms	-
680513	PSTN busy tone frequency upper limit (high byte)	Hz (BCD)	If both addresses contain
680514	PSTN busy tone frequency upper limit (low byte)		FF(H), tone detection is disabled.

Address	Function	Unit	Remarks
680515	PSTN busy tone frequency lower limit (high byte)	Hz (BCD)	If both addresses contain FF(H), tone detection is
680516	PSTN busy tone frequency lower limit (low byte)		disabled.
680517	PABX dial tone frequency upper limit (high byte)		If both addresses contain
680518	PABX dial tone frequency upper limit (low byte)	- Hz (BCD)	FF(H), tone detection is disabled.
680519	PABX dial tone frequency lower limit (high byte)		If both addresses contain
68051A	PABX dial tone frequency lower limit (low byte)	Hz (BCD)	FF(H), tone detection is disabled.
68051B	PABX dial tone detection time		If 68051B contains FF, the machine pauses for the pause time (680520 /
68051C	PABX dial tone reset time (LOW)	-	
68051D	PABX dial tone reset time (HIGH)	20 ms	
68051E	PABX dial tone continuous tone time		680521).
68051F	PABX dial tone permissible drop time	-	
680520	PABX wait interval (LOW)	-	
680521	PABX wait interval (HIGH)	-	-
680522	PABX ringback tone detection time	20 ms	If both addresses contain
680523	PABX ringback tone off detection time	20 ms	FF(H), tone detection is disabled.
680524	PABX detection time for silent period after ringback tone detected (LOW)	20 ms	If both addresses contain
680525	PABX detection time for silent period after ringback tone detected (HIGH)	20 ms	FF(H), tone detection is disabled.

Address	Function	Unit	Remarks		
680526	PABX busy tone frequency upper limit (high byte)		If both addresses contain		
680527	PABX busy tone frequency upper limit (low byte)	Hz (BCD)	FF(H), tone detection is disabled.		
680528	PABX busy tone frequency lower limit (high byte)		If both addresses contain		
680529	PABX busy tone frequency lower limit (low byte)	Hz (BCD)	FF(H), tone detection is disabled.		
68052A	Busy tone ON time: range 1				
68052B	Busy tone OFF time: range 1				
68052C	Busy tone ON time: range 2	20 ms			
68052D	Busy tone OFF time: range 2				
68052E	Busy tone ON time: range 3		-		
68052F	Busy tone OFF time: range 3				
680530	Busy tone ON time: range 4				
680531	Busy tone OFF time: range 4	20 ms			
680532	Busy tone continuous tone detection time	-			
	Busy tone signal state time tolerance for all ranges, and number of cycles required for detection (a setting of 4 cycles means that ON-OFF-ON or OFF-ON-OFF must be detected twice).				
	Tolerance (±)				
680533	Bit 1: 0, Bit 0: 0 = 75% Bits 2 and 3 must always be kept at 0.				
	Bit 1: 0, Bit 0: 0 = 50% Bits 2 and 3 must	always be kept	at 0.		
	Bit 1: 0, Bit 0: 0 = 25%				
	Bit 1: 0, Bit 0: $0 = 12.5\%$				
	Bits 7, 6, 5, 4 - number of cycles required for cadence detection				

Address	Function	Unit	Remarks
680534	International dial tone frequency upper limit (high byte)	Hz (BCD)	If both addresses contain FF(H), tone detection is
680535	International dial tone frequency upper limit (low byte)		disabled.
680536	International dial tone frequency lower limit (high byte)		If both addresses contain
680537	International dial tone frequency lower limit (low byte)	Hz (BCD)	FF(H), tone detection is disabled.
680538	International dial tone detection time		
680539	International dial tone reset time (LOW)		
68053A	International dial tone reset time (HIGH)	20 ms	If 680538 contains FF, the machine pauses for the pause time (68053D / 68053E). Belgium: See Note 2.
68053B	International dial tone continuous tone time		
68053C	International dial tone permissible drop time		
68053D	International dial wait interval (LOW)		
68053E	International dial wait interval (HIGH)	-	-
68053F	Country dial tone upper frequency limit (HIGH)		If both addresses contain FF(H), tone detection is disabled.
680540	Country dial tone upper frequency limit (LOW)		
680541	Country dial tone lower frequency limit (HIGH)	Hz (BCD)	If both addresses contain
680542	Country dial tone lower frequency limit (LOW)		FF(H), tone detection is disabled.
680543	Country dial tone detection time		If 680543 contains FF, the
680544	Country dial tone reset time (LOW)	20 ms	machine pauses for the pause time (680548 /
680545	Country dial tone reset time (HIGH)		680549).

Address	Function	Unit	Remarks
680546	Country dial tone continuous tone time	-	-
680547	Country dial tone permissible drop time		
680548	Country dial wait interval (LOW)	20 ms	-
680549	Country dial wait interval (HIGH)		
68054A	Time between opening or closing the DO relay and opening the OHDI relay	1 ms	See Notes 3, 6 and 8. SP2-103-012 (parameter 11).
68054B	Break time for pulse dialing	l ms	See Note 3. SP2-103-013 (parameter 12).
68054C	Make time for pulse dialing	1 ms	See Note 3. SP2-103-014 (parameter 13).
68054D	Time between final OHDI relay closure and DO relay opening or closing	1 ms	See Notes 3, 6 and 8. SP2-103-015 (parameter 14). This parameter is only valid in Europe.
68054E	Minimum pause between dialed digits (pulse dial mode)	20 ms	See Note 3 and 8. SP2-103-016 (parameter 15).
68054F	Time waited when a pause is entered at the operation panel		SP2-103-017 (parameter 16). See Note 3.
680550	DTMF tone on time	1 mc	SP2-103-018 (parameter 17).
680551	DTMF tone off time	1 ms	SP2-103-019 (parameter 18).
680552	Tone attenuation level of DTMF signals while dialing	-N x 0.5 –3.5 dBm	SP2-103-020 (parameter 19).
			See Note 5.

Address	Function	Unit	Remarks
680553	Tone attenuation value difference between high frequency tone and low frequency tone in DTMF signals	-dBm x 0.5	SP2-103-021 (parameter 20). The setting must be less than –5dBm, and should not exceed the setting at 680552h above. See Note 5.
680554	PSTN: DTMF tone attenuation level after dialling	-N x 0.5 –3.5 dBm	SP2-103-022 (parameter 21). See Note 5.
680555	ISDN: DTMF tone attenuation level after dialling	-dBm x 0.5	See Note 5
680556	Not used	-	Do not change the settings.
680557	Time between 68054Dh (NCU parameter 14) and 68054Eh (NCU parameter 15)	1 ms	This parameter takes effect when the country code is set to France.
680558	Not used	-	Do not change the setting.
680559	Grounding time (ground start mode)	20 ms	The Gs relay is closed for this interval.
68055A	Break time (flash start mode)	l ms	The OHDI relay is open for this interval.
68055B	International dial access code (High)		For a code of 100:
68055C	International dial access code (Low)	BCD	68055B - F1 68055C - 00
68055D	PSTN access pause time	20 ms	This time is waited for each pause input after the PSTN access code. If this address contains FF[H], the pause time stored in address 68054F is used. Do not set a number more than 7 in the UK.

Address	Function	Unit	Remarks	
		Bit 7: 0, Bit 6: 0, Bit 5: 0 = -25.0 dBm		
		Bit 7: 0, Bit 6: 0, Bit 5: 1 = -35.0 dBm		
68055E	Progress tone detection level, and	Bit 7: 0, Bit 6: 1	, Bit 5: 0 = -30.0 dBm	
0003JE	cadence detection enable flags	Bit 7: 1, Bit 6: C), Bit 5: 0 = -40.0 dBm	
		Bit 7: 1, Bit 6: 1	, Bit 5: 0 = -49.0 dBm	
		Bits 2, 0 - See N	Note 2.	
68055F				
То	Not used	-	Do not change the settings.	
680564				
680565	Long distance call prefix (HIGH)	BCD	For a code of 0:	
			680565 – FF	
680566	Long distance call prefix (LOW)	BCD	680566 - FF	
680567				
to	Not used	-	Do not change the settings.	
680571				
680572	Acceptable ringing signal frequency:		SP2-103-003 (parameter	
000372	range 1, upper limit	_	02).	
680573	Acceptable ringing signal frequency:		SP2-103-004 (parameter	
	range 1, lower limit	1000/N	03).	
680574	Acceptable ringing signal frequency:	(Hz).	SP2-103-005 (parameter	
	range 2, upper limit	_	04).	
680575	Acceptable ringing signal frequency: range 2, lower limit		SP2-103-006 (parameter 05).	
			SP2-103-007 (parameter	
680576	Number of rings until a call is detected	1	06).	
			The setting must not be zero.	
			See Note 4.	
680577	Minimum required length of the first ring	20 ms	SP2-103-008 (parameter 07).	

Address	Function	Unit	Remarks
680578	Minimum required length of the second and subsequent rings	20 ms	SP2-103-009 (parameter 08).
680579	Ringing signal detection reset time (LOW)	20	SP2-103-010 (parameter 09).
68057A	Ringing signal detection reset time (HIGH)	20 ms	SP2-103-011 (parameter 10).
68057B to 680580	Not used	-	Do not change the settings.
680581	Interval between dialing the last digit and switching the Oh relay over to the external telephone when dialing from the operation panel in handset mode.	20 ms	Factory setting: 500 ms
680582	Bits 0 and 1 - Handset off-hook detection Bit 1:0, Bit 0: 0 = 200 ms Bit 1:0, Bit 0: 1 = 800 ms Other Not used Bits 2 and 3 - Handset on-hook detection Bit 3: 0, Bit 2: 0 = 200 ms Bit 3: 0, Bit 2: 1 = 800 ms Other Not used Bits 4 to 7 - Not used		-
680583 To 6805A0	Not used	-	Do not change the settings.
6805A1	Acceptable CED detection frequency upper limit (high byte)	BCD (Hz)	If both addresses contain
6805A2	Acceptable CED detection frequency upper limit (low byte)		FF(H), tone detection is disabled.

Address	Function	Unit	Remarks
6805A3	Acceptable CED detection frequency lower limit (high byte)	BCD (Hz)	If both addresses contain FF(H), tone detection is
6805A4	Acceptable CED detection frequency lower limit (low byte)		disabled.
6805A5	CED detection time	20 ms ± 20 ms	Factory setting: 200 ms
6805A6	Acceptable CNG detection frequency upper limit (high byte)		If both addresses contain
6805A7	Acceptable CNG detection frequency upper limit (low byte)	BCD (Hz)	FF(H), tone detection is disabled.
6805A8	Acceptable CNG detection frequency lower limit (high byte)		If both addresses contain
6805A9	Acceptable CNG detection frequency lower limit (low byte)	BCD (Hz)	FF(H), tone detection is disabled.
6805AA	Not used	-	Do not change the setting.
6805AB	CNG on time	20 ms	Factory setting: 500 ms
6805AC	CNG off time	20 ms	Factory setting: 3000 ms
6805AD	Number of CNG cycles required for detection	-	The data is coded in the same way as address 680533.
6805AE	Not used	-	Do not change the settings.
6805AF	Acceptable AI short protocol tone (800Hz) detection frequency upper limit (high byte)	Hz (BCD)	If both addresses contain
6805B0	Acceptable AI short protocol tone (800Hz) detection frequency upper limit (low byte)		FF(H), tone detection is disabled.

Address	Function	Unit	Remarks
6805B1	Acceptable AI short protocol tone (800Hz) detection frequency lower limit (high byte)		If both addresses contain
6805B2	Acceptable AI short protocol tone (800Hz) detection frequency lower limit (low byte)	Hz(BCD)	FF(H), tone detection is disabled.
6805B3	Detection time for 800 Hz AI short protocol tone	20 ms	Factory setting: 360 ms
6805B4	PSTN: Tx level from the modem	-N – 3 dBm	SP2-103-002 (parameter 01).
6805B5	PSTN: 1100 Hz tone transmission level	- N 6805B4 - 0.5N 6805B5 –3.5 (dB) See Note 7.	
6805B6	PSTN: 2100 Hz tone transmission level	- N6805B4 - 0.5N 6805B6 –3 (dB) See Note 7.	
6805B7	PABX: Tx level from the modem	- dBm	
6805B8	PABX: 1100 Hz tone transmission level	- N 6805B7 - 0.5N 6805B8 (dB)	
6805B9	PABX: 2100 Hz tone transmission level	- N 6805B7 - (0.5N 6805B9 (dB)
6805BD	Modem turn-on level (incoming signal detection level)	-37-0.5N (dBm)	
6805BE to 6805C6	Not used	-	Do not change the settings.
	Bits 0 to 3 – Not used		
6805C7 Bit 4 = V.34 protocol dump 0: Simple, 1: Detailed (defa			
	Bits 5 to 7 – Not used.		
6805C8 to 6805D9	Not used	-	Do not change the settings.
6805DA	T.30 T1 timer	1 s	

Address	Function	Unit	Remarks					
6805E0 bit 3	Maximum wait time for post message	0: 12 s 1: 30 s	1: Maximum wait time for post message (EOP/EOM/ MPS) can be changed to 30 s. Change this bit to "1" if communication errors occur frequently during V.17 reception.					
	Bits 0 and 1 – DCV (TIP/RING) Voltage							
	Bit 1:0, Bit 0: 0 = 3.1 V							
	Bit 1:0, Bit 0: 1 = 3.2 V							
	Bit 1:1, Bit 0: 0 = 3.35 V							
	Bit 1:1, Bit 0: 1 = 3.5 V							
	Bits 2 and 3 – MINI (minimum loop electric current)							
6805E3	Bit 2:0, Bit 3: 0 = 10 mA							
	Bit 2:0, Bit 2: 1 = 12 mA							
	Bit 2:1, Bit 3: 0 = 14 mA							
	Bit 2:1, Bit 3: 1 = 16 mA							
	Bits 6 and 7 – ACIM (AC impedance)							
	Bit 7:0, Bit 6: 0 Bit 5:0, Bit 4: 0= 600							
	Bit 7:0, Bit 6: 0 Bit 5:1, Bit 4: 0= TBR21							

Address	Function	Unit	Remarks				
	Bit 0 – OHS (on hook speed)						
	0: OHS=0						
	1: OHS=1						
	Bit 1 – SQ (spark quench)						
	0: SQ=00						
	1: SQ=11						
	Bit 2 – RZ (call signal Impedance)						
	O: RZ=O (high)						
	1: RZ=1 (low)						
	Bit 3 – RT (call signal detection level)						
	O: RT=O (low)						
6805E4	1: RT=1 (high)						
	Bit 4 – ILIM (DC limitation)						
	0: ILIM=0 (CTR 21)						
	1: ILIM=1 (other than CTR 21)						
	Bit 5 -FILTER						
	0: FILTER=0 (around 5Hz)						
	1: FILTER=1 (around 200Hz)						
	Bits 6 to 7 – Calibration in off hook state						
	Bit 6:0, Bit 7: 0 = off hook to ACAL:128	ms, off hook to N	ICAL: 1000 ms				
	Bit 6:1, Bit 7:0 = off hook to ACAL:128	ms, off hook to N	ICAL: 500 ms				
	Bit 6:0, Bit 7: 1 = off hook to ACAL:128	ms (no MCAL)					
	Bit 6:1, Bit 7: 1 = off hook to ACAL:8 ms (no MCAL)						
	Bits 0 to 6 – Not used						
400555	Bits 7 – Energy saving for DSP, COMBLE	(, SiDAA					
6805E5	0: Does not save energy						
	1: Saves energy						

NOTES

- 1. If a setting is not required, store FF in the address.
- 2. Italy and Belgium only

RAM address 68055E: the lower four bits have the following meaning.

- Bit 2 1: International dial tone cadence detection enabled (Belgium)
- Bit 1 Not used
- Bit 0 1: PSTN dial tone cadence detection enabled (Italy)

If bit 0 or bit 2 is set to 1, the functions of the following RAM addresses are changed.

680508 (if bit 0 = 1) or 680538 (if bit 2 = 1): tolerance for on or off state

duration (%), and number of cycles required for detection, coded as in address 680533.

68050B (if bit 0 = 1) or 68053B (if bit 2 = 1): on time, hex code (unit = 20 ms)

68050C (if bit 0 = 1) or 68053C (if bit 2 = 1): off time, hex code (unit = 20 ms)

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

The attenuation levels calculated from RAM data are:

High frequency tone:

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

Low frequency tone:

- 0.5 x (N₆₈₀₅₅₂/₆₈₀₅₅₄ + N₆₈₀₅₅₃) 3.5 dBm
- - 0.5 x (N₆₈₀₅₅₅ + N₆₈₀₅₅₃) dBm

• Note

- N₆₈₀₅₅₂, for example, means the value stored in address 680552(H)
- 6. 68054A: Europe Between Ds opening and Di opening, France Between Ds closing and Di opening

68054D: Europe - Between Ds closing and Di closing, France - Between Ds opening and Di closing

- Tone signals which frequency is lower than 1500Hz (e.g., 800Hz tone for AI short protocol) refer to the setting at 6805B5h. Tones which frequency is higher than 1500Hz refer to the setting at 6805B6h.
- 8. 68054A, 68054D, 68054E: The actual inter-digit pause (pulse dial mode) is the sum of the period specified by the RAM addresses 68054A, 68054D, and 68054E.

Dedicated Transmission Parameters

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

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

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

Programming Procedure

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

Parameters

Fax Parameters

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

Switch 00

FUNCTION AND COMMENTS

ITU-TT1 time (for PSTN G3 mode)

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

Range:

0 to 120 s (00h to 78h)

FFh - The local NCU parameter factory setting is used.

Do not program a value between 79h and FEh.

Switch 01

No			FU	NCTIO	N	COMMENTS	
	Tx leve	əl					
	Bit4	Bit3	Bit2	Bit 1	BitO		16
	0	0	0	0	0	0	If communication with a particular remote terminal often contains errors, the signal
	0	0	0	0	1	-1	level may be inappropriate. Adjust the Tx level for communications with that terminal
	until the results are better.						
0-4	0		If the setting is "Disabled", the NCU parameter 01 setting is used.				
	0 0 1 0 0 -4 Vote						
	2 e ner ete tennige enter man herea						
	0	1	1	1	1	-15	on the left.
	1	1	1	1	1	Disabled	

5-7	Cable equalizer Bit 7: 0, Bit 6: 0, Bit 5: 0 = None Bit 7: 0, Bit 6: 0, Bit 5: 1 = Low Bit 7: 0, Bit 6: 1, Bit 5: 0 = Medium Bit 7: 0, Bit 6: 1, Bit 5: 1 = High	Use a higher setting if there is signal loss at higher frequencies because of the length of wire between the modem and the telephone exchange when calling the number stored in this Quick/Speed Dial. Also, try using the cable equalizer if one or more of the following symptoms occurs. Communication error with error codes such as 0-20, 0-23, etc. Modem rate fallback occurs frequently.
	Bit 7: 1, Bit 6: 1, Bit 5: 1 = Disabled	 Note Do not use settings other than listed on the left. If the setting is "Disabled", the bit switch setting is used.

Switch 02						
No	FUNCTION	COMMENTS				

	Initial ⁻	Tx mode	em rate				
	Bit3	Bit2	Bit 1	BitO	bps		
	0	0	0	0	Not used		
	0	0	0	1	2400		
	0	0	1	0	4800		
	0	0	1	1	7200		
	0	1	0	0	9600	If training with a particular remote terminal always	
	0	1	0	1	12000	takes too long, the initial modem rate may be too high. Reduce the initial Tx modem rate using these	
	0	1	1	0	14400	bits.	
0-3	0	1	1	1	16800	For the settings 14.4 or kbps slower, Switch 04 bit 4 must be changed to 0.	
1 0 0 0 19200 1 0 0 1 21600 1 0 1 0 24000	♦ Note						
	1	0	0	1	21600	 Do not use settings other than listed on the left. If the setting is "Disabled", the bit switch setting is used. 	
	1	0	1	0	24000		
	1	0	1	1	26400		
	1	1	0	0	28800		
	1	1	0	1	31200		
	1	1	1	0	33600		
	1	1	1	1	Disabled		
	Other	settings	: Not us	ed			
4-7	Not us	sed				Do not change the settings.	

Switch 03					
No	FUNCTION	COMMENTS			

0-1	Inch-mm conversion before tx Bit 1: 0, Bit 0: 0 = Inch-mm conversion available Bit 1: 0, Bit 0: 1 = Inch only Bit 1: 1, Bit 0: 0 = Not used Bit 1: 1, Bit 0: 1 = Disabled	The machine uses inch-based resolutions for scanning. If "inch only" is selected, the printed copy may be slightly distorted at the other end if that machine uses mm-based resolutions. If the setting is "Disabled", the bit switch setting is used.
2-3	DIS/NSF detection method Bit 3: 0, Bit 2: 0 = First DIS or NSF Bit 3: 0, Bit 2: 1 = Second DIS or NSF Bit 3: 1, Bit 2: 0 = Not used Bit 3: 1, Bit 2: 1 = Disabled	(0, 1): Use this setting if echoes on the line are interfering with the set-up protocol at the start of transmission. The machine will then wait for the second DIS or NSF before sending DCS or NSS. If the setting is "Disabled", the bit switch setting is used.
4	V.8 protocol O: Off 1: Disabled	If transmissions to a specific destination always end at a lower modem rate (14,400 bps or lower), disable V.8 protocol so as not to use V.34 protocol. O: V.34 communication will not be possible. If the setting is "Disabled", the bit switch setting is used.
5	Compression modes available in transmit mode O: MH only 1: Disabled	This bit determines the capabilities that are informed to the other terminal during transmission. If the setting is "Disabled", the bit switch setting is used.
6-7	ECM during transmission Bit 7: 0, Bit 6: 0 = Off Bit 7: 0, Bit 6: 1 = On Bit 7: 1, Bit 6: 0 = Not used Bit 7: 1, Bit 6: 1 = Disabled	 For example, if ECM is switched on but is not wanted when sending to a particular terminal, use the (0, 0) setting. Note V.8/V.34 protocol and JBIG compression are automatically disabled if ECM is disabled. If the setting is "Disabled", the bit switch setting is used.

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

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

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

E-mail Parameters

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

00		
FUNCTION	COMMENTS	
MH Compression mode for e-mail attachments 0 : Off 1: On	Switches MH compression on and off for files attached to e- mails for sending.	
MR Compression mode for e-mail attachments 0 : Off 1: On	Switches MR compression on and off for files attached to e- mails for sending.	
MMR Compression mode for e-mail attachments 0 : Off 1: On	Switches MMR compression on and off for files attached to e-mails for sending.	
Not used	Do not change these settings.	
Designates the bits to reference for compression method of e-mail attachments 0 : Registered (Bit 0 to 6) 1: No registration.	The "0" selection (default) references the settings for Bits 00, 01, 02 above. The "1" selection ignores the selections of Bits 00, 01, 02.	
	FUNCTION MH Compression mode for e-mail attachments 0: Off 1: On MR Compression mode for e-mail attachments 0: Off 1: On MR Compression mode for e-mail attachments 0: Off 1: On MMR Compression mode for e-mail attachments 0: Off 1: On Mot used Designates the bits to reference for compression method of e-mail attachments	

Switch 01

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

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

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

Switch 03 - Not us	ed (do not	change the	settings)
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witch (04	
No	FUNCTION	COMMENTS
Full mode address selection O: Full mode address 1: No full mode (simple mode)	1: No full mode (simple	 If the other ends have the addresses, which have the full mode function flag ("O"), this machine determines them as full mode standard machines. This machine attaches the "demand of reception confirmation" to a message when transmitting. This machine updates the reception capability to the address book when receiving.
1-7	Not used	Do not change these settings.

Switch 05		
No	FUNCTION	COMMENTS

0	Directr transmission selection to SMTP server 0: ON 1: OFF	Allows or does not allow the direct transmission to SMTP server.
1-7	Not used	Do not change these settings.

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

Service RAM Addresses

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

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

- 680001(H) Revision number (BCD)
- 680002(H) Year (BCD)
- 680003(H) Month (BCD)
- 680004(H) Day (BCD)
- 680006 to 680015(H) Machine's serial number (16 digits ASCII)
- 680016(H) Language code

0: Japanese, 1: UK English, 2: US English, 3: French, 4: German, 5: Spanish, 6: Italian, 7: Dutch, 8: Swedish, 9: Norwegian, 10: Danish, 11: Finnish, 12: Czech, 13: Hungarian, 14: Polish, 15: Portuguese, 16: Russian, 17: Traditional Chinese, 18: Simplified Chinese, 19: Korean

- 680018(H) Total program checksum (low)
- 680019(H) Total program checksum (high)
- 680020 to 68003F(H) System bit switches
- 680050 to 68005F(H) Printer bit switches
- 680060 to 68007F(H) Communication bit switches
- 680080 to 68008F(H) G3 bit switches
- 680090 to 68009F(H) G3-2 bit switches: Not used
- 6800A0 to 6800AF(H) G3-3 bit switches: Not used
- 6800D0(H) User parameter switch 00 (SWUER_00) : Not used
- 6800D1(H) User parameter switch 01 (SWUSR_01) : Not used

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

- Bit O: Forwarding mark printing on forwarded messages O: Disabled, 1: Enabled
- Bit 1: Center mark printing on received copies
- (This switch is not printed on the user parameter list.)
- 0: Disabled, 1: Enabled
- Bit 2: Reception time printing
- (This switch is not printed on the user parameter list.)
- 0: Disabled, 1: Enabled
- Bit 3: TSI print on received messages 0: Disabled, 1: Enabled

4

Bit 4: Checkered mark printing

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

0: Disabled, 1: Enabled

Bit 5: Not used

Bit 6: Not used

Bit 7: Not used

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

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

Bit 1: Not used

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

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

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

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

Bit 6: Not used

Bit 7: Journal 0: Off, 1: On

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

- Bit 0: Not used
- Bit 1: Automatic communication failure report and transfer result report output 0: Off, 1: On
- Bits 2 to 3: Not used
- Bit 4: Indicates the parties 0: Not indicated, 1: Indicated
- Bit 5: Include sender's name on reports 0: Off, 1: On

Bit 6: Not used

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

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

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

0: Enabled, 1: Disabled

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

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

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

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

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

Bit 3: Not used

Bit 4: Not used Bit 5: Just size printing 0: Off, 1: On Bit 6: Not used Bit 7: Add paper display when a cassette is empty 0: Off, 1: On 6800D6(H) - User parameter switch 06 (SWUSR_06): Not used 6800D7(H) - User parameter switch 07 (SWUSR_07) Bit 0 Ringing 0: Off, 1: On Bit1: Automatic answering message 0: Off, 1: On Bit 2: Parallel memory transmission 0: Off, 1: On Bits 3 and 4: Not used Bit 5: Remote control 0: Off, 1: On Bits 6 and 7: Not used 6800D8(H) - User parameter switch 08 (SWUSR_08) Bits 0 and 1: Not used. Bit 2: Authorized reception 0: Only faxes from senders whose RTIs/CSIs are specified for this feature are accepted. 1: Only faxes from senders whose RTIs/CSIs are not specified for this feature are accepted. Bits 3 to 7: Not used. 6800D9(H) - User parameter switch 09 (SWUSR_09): Not used 6800DA(H) - User parameter switch 10 (SWUSR_0A) Bits 0 to 2: Not used Bit 3: Page reduction 0: Off, 1: On Bits 4 and 5: Not used Bit 6: Use both e-mail notification and printed reports to confirm the transmission results 0: Off, 1: On Bit 7: Not used 6800DB(H) - User parameter switch 11 (SWUSR_OB) Bits 0 and 1: Not used Bit 2: White original detection 0: Off, 1: On (alarm and alert message on the LCD) Bit 3: Receive rejection for 1300 Hz transmission 0: Off (receive), 1: On (not receive) Bit 5: Not used Bit 6: Printout of messages received while acting as a forwarding station 0: Off, 1: On Bit 7: Not used 6800DC(H) - User parameter switch 12 (SWUSR_OC): Not used

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

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

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

Bit 1: Maximum document length detection 0: Double letter, 1: Longer than double-letter (well log) – up to 1,200 mm

Bit 2: Not used

Bit 3: Fax mode settings, such as resolution, before a mode key (Copy/Fax/Printer/Scanner) is pressed 0: Not cleared, 1: Cleared

Bits 4 to 6: Not used

Bit 7: Not used

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

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

Bits 0, 1 and 2: Cassette for fax printout

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

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

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

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

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

Other settings Not used

Bits 3 and 4: Not used

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

Bits 6 and 7: Not used

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

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

Bits 0 and 1: Not used

Bit 2: Paper size selection priority for an A4 size fax message when A4/LT size paper is not available. 0: A3 has priority, 1: B4 has priority

Bits 3 to 7: Not used

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

Bit 0: Not used

Bit 1: Not used

Bit 2: Inclusion of the "Add" button when a sequence of Quick/Speed dials is selected for broadcasting 0:Not needed, 1: Needed

Bits 3 to 6: Not used

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

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

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

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

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

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

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

Bits 4 to 6: Not used

Bit 7: Japan only

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

Bit 0: Not used

Bit 1: Journal format

0: The Journal is separated into transmissions and receptions

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

Bit 2: Not used

Bit 3: 90° image rotation during B5 portrait Tx (This switch is not printed on the user parameter list.) 0: Off, 1: On

Bit 4: Reduction of sample images on reports to 50% in the main scan and sub-scan directions. (This switch is not printed on the user parameter list.) O: Technician adjustment (printer switch OE bits 3 and 4), 1: 50% reduction

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

Bits 6 and 7: Not used

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

Bit 0: Automatic printing of the LAN fax result report 0: Off, 1: On Bit 1: Not used.

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

Bit 5	Bit 4	Bit 3	Bit 2	Setting
0	0	0	0	0 min.
0	0	0	1	1 min.
\downarrow	¥	\checkmark	\checkmark	↓
1	1	1	0	14 min.
1	1	1	1	15 min.

Bits 6 and 7: Not used.

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

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

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

Bit 2: Not used

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

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

Bit 5: Not used

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

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

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

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

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

Bits 1 to 7: Not used

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

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

6800E9(H): Not used

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

6800EC(H) - User parameter switch 28(SWUSR_1C)

Ххххх

6800ED(H) - User parameter switch 29(SWUSR_1D)

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

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

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

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

Bits 1 to 7: Not used

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

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

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

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

Bits 2 to 7: Not used

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

Redial interval when sending a backup file

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

Maximum number of redials when sending a backup file

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

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

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

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

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

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

Bit 7: Not used

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

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

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

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

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

Bit 0: When memory space is insufficient, the machine prints and then deletes the oldest faxes, creating memory space for storage of new faxes. 0: Disabled, 1: Enabled

Bit 1 to 7: Not used

6800FD(H) - User parameter switch 45 (SWUSR_2D)

Bit O and 1:

Bit 2: File format for files transmitted to e-mail addresses and folders registered as forwarding, destinations of backup file transmission, receivers for Personal Box, or end receivers for Transfer Box. 0: PDF 1: PDF/A

Bit 3:

Bit 4 to 7: Not used

- 680100 to 68010F(H) G4 Parameter Switches Not used
- 680110 to 68012F(H) G4 Internal Switches Not used
- 680130 to 68016F(H) Service Switches
- 680170 to 68017F(H) IFAX Switches
- 680180 to 68018F(H) IP-FAX Switches
- 680190 to 6801A3(H) PSTN-1 RTI (Max. 20 characters ASCII) See the following note.
- 6801A4 to 6801B7(H) PSTN-2 RTI (Max. 20 characters ASCII)
- 6801B8 to 6801CB(H) PSTN-3 RTI (Max. 20 characters ASCII)
- 6801CF to 68020E(H) TTI 1 (Max. 64 characters ASCII) See the following note.
- 68020F to 68024E(H) TTI 2
- 68024F to 68028E(H) TTI 3
- 68028F to 6802CE(H) TTI 4
- 6802CF to 68030E(H) TTI 5
- 68030F to 68034E(H) TTI 6
- 68034F to 68038E(H) TTI 7
- 68038F to 6803CE(H) TTI 8
- 6803CF to 68040E(H) TTI 9

68040F to 68044E(H) - TTI 10

Note

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

68044F(H)

Printing format for TTI 1

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

680450(H)

Printing format for TTI 2

0: DOM, 1:EXP

680451(H)

Printing format for TTI 3

0: DOM, 1:EXP

680452(H)

Printing format for TTI 4 0: DOM, 1:EXP 4

680453(H)

Printing format for TTI 5

0: DOM, 1:EXP

680454(H)

Printing format for TTI 6

0: DOM, 1:EXP

680455(H)

Printing format for TTI 7

0: DOM, 1:EXP

680456(H)

Printing format for TTI 8

0: DOM, 1:EXP

680457(H)

Printing format for TTI 9

0: DOM, 1:EXP

680458(H)

Printing format for TTI 10

0: DOM, 1:EXP

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

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

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

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

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

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

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

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

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

- 6804D3(H) Year (BCD)
- 6804D4(H) Month (BCD)
- 6804D5(H) Day (BCD)
- 6804D6 (H) Hour
- 6804D7 (H) Minute
- 6804D8(H) Second

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

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

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

Bit 1: SAF Memory (4M) 0: Not installed, 1: Installed

Bit 2: SAF Memory 0: Not installed, 1: Installed

Bits 3 to 7; Not used

6804E7(H) - Optional equipment (Read only – Do not change the settings)

Bits 0 to 3: Not used

Bit 4: G3-2 0: Not installed, 1: Installed

Bit 5: G3-3 0: Not installed, 1: Installed

Bit 6 and 7: Not used

6804EE(H) - Machine code (Check ram 3)

680500(H) - Start address of G3 table for G3-1

680600(H) - Start address of G3 table for G3-2

680700(H) - Start address of G3 table for G3-3

680820 to 68083F(H) - Service station's fax number (SP3-101)

680840 to 680849(H) - Own fax PABX extension number - Not used

68084A to 680853(H) - Own fax number (PSTN) - Not used

680854 to 680867(H) - Own fax number (ISDN G4) - Not used

680868 to 680873(H) - The first subscriber number (ISDN G3) - Not used

680874 to 68087F(H) - The second subscriber number (ISDN G3) - Not used

680880 to 68088B(H) - The first subscriber number (ISDN G4) - Not used

68088C to 680897(H) - The second subscriber number (ISDN G4) - Not used

6808C0 to 6808D7(H) - G4TID registered information (Max.24 characters - ASCII)

6808D8 to 6808EB(H) - ISDN CSI (Max.20 characters - ASCII)

6808EC(H) - Number of ISDN CSI characters (Hex)

6808F1 to 6808F4(H) - ISDN G3 subaddress registered information

6808F5 to 6808F8(H) - G4 subaddress registered information

6808FE to 680902 – Option G3 board (G3-2) ROM information (Read only)

6808FE(H) - Suffix (BCD)

6808FF(H) - Version (BCD)

680900(H) - Year (BCD)

680901(H) - Month (BCD)

4

680902(H) - Day (BCD)

680903 to 680907 – Option G3 board (G3-3) ROM information (Read only)

- 680903(H) Suffix (BCD)
- 680904(H) Version (BCD)
- 680905(H) Year (BCD)
- 680906(H) Month (BCD)

680907(H) - Day (BCD)

- 680908(H) G3-1 Modem ROM version (Read only)
- 68090A(H) G3-2 Modem ROM version (Read only)
- 68090C(H) G3-3 Modem ROM version (Read only)
- 680918(H) Number of multiple sets print (Read only)
- 68096E(H) Not used
- 68096F(H) Not used
- 68098A(H) Transmission monitor volume 00 07(H)
- 68098B(H) Reception monitor volume 00 07(H)
- 68098C(H) On-hook monitor volume 00 07(H)
- 68098D(H) Dialing monitor volume 00 07(H)
- 68098E(H) Buzzer volume 00 07(H)
- 68098F(H) Beeper volume 00 07(H)
- 6809A0(H) Machine code (Check ram 4)
- 6809CA(H) Machine serial number (ASCII)
- 680D98 to 680D9B(H) Transmission counter (Max.24 characters ASCII)
- 680D9C to 680D9F(H) Reception counter (Max.24 characters ASCII)
- 680E08 to 680E0B(H) Mail transmission counter (Max.24 characters ASCII)
- 680E0C to 680E0F(H) Mai reception counter (Max.24 characters ASCII)
- 6A69EE(H) to 6A6CED(H) SIP server address (Read only)
- 6A69EE(H) Proxy server Main (Max. 128 characters ASCII)
- 6A6A6E(H) Proxy server Sub (Max. 128 characters ASCII)
- 6A6AEE(H) Redirect server Main (Max. 128 characters ASCII)
- 6A6B6E(H) Redirect server Sub (Max. 128 characters ASCII)
- 6A6BEE(H) Registrar server Main (Max. 128 characters ASCII)
- 6A6C6E(H) Registrar server Sub (Max. 128 characters ASCII)
- 6A6CEE(H) Gatekeeper server address Main (Max. 128 characters ASCII)

- 6A6D6E(H) Gatekeeper server address Sub (Max. 128 characters ASCII)
- 6A6DEE(H) Alias Number (Max. 128 characters ASCII)
- 6A6E6E(H) SIP user name (Max. 128 characters ASCII)
- 6A6EEE(H) SIP digest authentication password (Max. 128 characters ASCII)
- 6A6F6E(H) Gateway address information (Max. 7100 characters ASCII)
- 6A8B2A(H) NGN initial setting method 0: Simple, 1: Manual
- 6A8B2B(H) SIP digest authentication user name (Max. 128 characters ASCII)
- 6A8BAB(H) NGN-SIP domain name (Max. 64 characters ASCII)
- 6A8B2B(H) NGN-home gateway address (Max. 128 characters ASCII)
- 6A8C6C(H) Stand-by port number for H.323 connection
- 6A8C6E(H) Stand-by port number for SIP connection
- 6A8C70(H) RAS port number
- 6A8C72(H) Gatekeeper port number
- 6A8C74(H) Port number of data waiting for T.38
- 6A8C76(H) Port number of SIP server
- 6A8C78(H) Priority for SIP and H.323 0: H.323, 1: SIP
- 6A8C79(H) SIP function O: Disabled, 1: Enabled
- 6A8C7A(H) H.323 function 0: Disabled, 1: Enabled
- 6A8C7B(H) SIP digest authentication function 0: Disabled, 1: Enabled
- 6B35A4(H) 6B35C4 (H) Dial tone detection parameter (Max. 11 x 3 lines)
- This initializes following order. [0x04, 0x40, 0x03, 0x60, 0x64, 0x64, 0x01,0x64, 0x04, 0xc8, 0x00]
- 6B35A4(H) Dial tone detection frequency Upper limit (High)
- Defaults: NA: 06, EU: 06, ASIA: 06
- 6B35A5(H) Dial tone detection frequency Upper Limit (Low)
- Defaults: NA: 50, EU: 50, ASIA: 50
- 6B35A6(H) Dial tone detection frequency Lower Limit (High)
- Defaults: NA: 03, EU: 02, ASIA: 02
- 6B35A7(H) Dial tone detection frequency Lower Limit (Low)
- Defaults: NA: 60, EU: 90, ASIA: 90
- 6B35A8(H) Dial tone detection waiting time (20 ms)
- Defaults: NA: 64, EU 64, ASIA: 64
- 6B35A9 to 6B35AA Dial tone detection monitoring time (20 ms)

Defaults

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

6B35AB(H) - Dial tone detect judge time (20 ms)

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

6B35AC(H) – Dial tone disconnect permission time (20 ms)

Defaults: NA: 11, EU: OF, ASIA: 11

General Specifications

FCU

Туре:	Desktop type transceiver
Circuit:	PSTN
	PABX
Connection:	Direct couple
	Book (Face down):
	Maximum Width: 216 mm [8.5 inch]
	ARDF (Face up):
	(Single-sided document)
Original Size:	Length: 139 - 1200 mm [5.5 - 47.2 inch]
	Width: 139 - 216 mm [5.5 - 8.5 inch]
	(Double-sided document)
	Length: 160 - 356 mm [6.3 - 14.0 inch]
	Width: 139 - 216 mm [5.5 - 8.5 inch]
Scanning Method:	Flat bed, with CCD
	G3:
	8 x 3.85 lines/mm, 200 x 100 dpi (Standard character),
Resolution:	8 x 7.7 lines/mm, 200 x 200 dpi (Detail character),
Kesolution:	8 x 15.4 lines/mm (Fine character: optional),
	16 x 15.4 lines/mm, 400 x 400 dpi (Super Fine character:
	optional)
Transmission Time:	G3: 3 s at 28800 bps; Measured with G3 ECM using memory for an ITU-T #1 test document (Slerexe letter) at standard resolution
Data Compression:	MH, MR, MMR, JBIG
Protocol:	Group 3 with ECM

Modulation:	V.34, V.17 (TCM), V.29, V.17 (QAM), V.27ter (PHM), V.8, V.21 (FSK)	
Data Rate:	G3: 33600/31200/28800/26400/24000/21600/ 19200/16800/14400/12000/9600/7200/4800/2400 bps Automatic fallback	
I/O Rate:	With ECM: 0 ms/line Without ECM: 2.5, 5, 10, 20, or 40 ms/line	
Memory Capacity:	ECM: 128 KB SAF Standard: 4 MB With optional Expansion Memory: 28 MB (4 MB+ 24 MB) Page Memory Standard: 8 MB (Print: 4 MB + Scanner: 4 MB) With optional Expansion Memory: 16 MB (Print: 8 MB + Scanner: 8 MB)	

Capabilities of Programmable Items

The following table shows the capabilities of each programmable items.

ltem	Standard
Quick Dial	1000
Groups	100
Destination per Group	500
Destination per document	500
Programs	100
Communication records for Journal stored in the memory	200
Specific Senders	250
Memory Transmission file	800
Maximum number of page for memory transmission	320

The following table shows how the capabilities of the document memory will change after the Expansion Memory are installed.

	Without the Expansion Memory	With the Expansion Memory
Memory Transmission file	800	800
Maximum number of page for memory transmission	1000	1000
Memory capacity for memory transmission (Note1)	320	2240

Vote

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

IFAX Specifications

	area network
Connectivity: Ethern	et 100base-Tx/10base-T
IEEE80	02.11a/g (wireless LAN), 1000 Base-T
Mains	scan: 400 dpi, 200 dpi
Sub sc	an: 400 dpi, 200 dpi, 100 dpi
Resolution:	ote
• T	o use 400 dpi, IFAX SW01 Bit 4 must be set to "1".
1 s (th	rough a LAN to the server)
Condi	tion: ITU-T #1 test document (Selerexe Letter)
MTF c	orrection: OFF
TTI: N	one
Transmission Time: Resolu	tion: 200 x 100 dpi
Comm	unication speed: 10 Mbps
Corres	pondent device: E-mail server
Line co	onditions: No terminal access
Document Size: Maxin	num message width is A4/LT.
Single	/multi-part
E-mail File Format: MIME	conversion
Image	: TIFF-F (MH, MR, MMR)
Transn	nission:
SMTP,	TCP/IP
Protocol: Recep	tion:
POP3,	SMTP, IMAP4, TCP/IP
Data Rate:	1bps(100base-Tx)
10 M	ops (10base-T)
SMTP-	AUTH
Authentication Method:	efore SMTP
A-POF	

Remark:	The machine must be set up as an e-mail client before installation. Any client	
	PCs connected to the machine through a LAN must also be e-mail clients, or	
	some features will not work (e.g. Autorouting).	

IP-FAX Specifications

Network:	Local Area Network Ethernet/10base-T, 100base-TX IEEE802.11a/g (wireless LAN), 1000 Base-T
Scan line density:	8 x 3.85 lines/mm, 200x100dpi (standard character), 8 x 7.7lines/mm, 200x200dpi (detail character), 8 x 15.4lines/mm (fine character: optional expansion memory required), 16 x 15.4lines/mm, 400x400dpi (super fine character: optional expansion memory required)
Original size:	A4
Maximum scanning size:	A4, 216 x 356 mm, Irregular, 216 x 1200 mm
Transmission protocol:	Recommendation: T.38, TCP, UDP/IP communication, SIP (RFC 3261 compliant), H.323 v2
Compatible machines:	IP-Fax compatible machines
P-Fax transmission Function: Specify IP address and send fax to an IP-Fax compatible fax through a network. Also capable of sending fax from a G3 fax connected to the public telephone lines via a VoIP gateway.	
IP-Fax reception function:	Receive a fax sent from an IP-Fax compatible fax through a network. Also capable of receiving fax from a G3 fax connected the public telephone lines via a VoIP gateway.

Fax Unit Configuration



d791b0023

No	Component	Code	Remarks
1	FCU	D791	ta da da da Mala faranza
2	Speaker	0/91	Included with the fax unit
-	Memory Unit Type B 32MB	G578	Option

MEMO