TOSHIBA

SERVICE HANDBOOK FACSIMILE (FOR DP1600/2000/2500) GD-1060

Click the Navigation Pane button to open the overview area and display bookmarks and thumbnails palettes.

Bookmarks

Click the Bookmarks to open the Contents and display Bookmarks created for the document. Click a bookmark's name to go to the Page marked by that bookmark.

Thumbasile

Click the Thumbnails to open the overview area and display thumbnail images of each document page. Click a thumbnail to go to the Page marked by that thumbnail.

Copyright TOSHIBA TEC CORPORATION 2001
ALL RIGHTS RESERVED



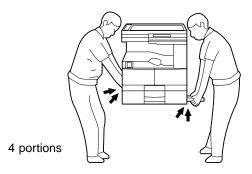
GENERAL PRECAUTIONS REGARDING THE INSTALLATION AND SERVICE FOR DP1600/2000/2500 AND GD-1060

The installation and service should be done by a qualified service technician.

1. Transportation

 When transporting/installing the copier, employ two persons and be sure to use the positions as indicated below.

The copier is fairly heavy and weighs approximately 50 kg (110 lb), therefore pay full attention when handling it.



2. Installation

- Be sure to use a dedicated outlet with AC 115 or 120V/15A (220V, 230V, 240V/10A) or more for its power source.
- The copier must be grounded for safety.
 Never ground it to a gas pipe or a water pipe.
- Select a suitable place for installation.
 Avoid excessive heat, high humidity, dust, vibration and direct sunlight.
- Also provide proper ventilation as the copier emits a slight amount of ozone.
- To insure adequate working space for the copying operation, keep a minimum clearance of 80 cm (32") on the left, 80 cm (32") on the right and 10 cm (4") in the rear.
- After having installed the copier, be sure to push the carrying handles into the copier.

3. Service of Machines

- Basically, be sure to turn the main switch off and unplug the power cord during service.
- Be sure not to touch high-temperature sections such as the exposure lamp, the fuser unit, the damp heater and their periphery.
- Be sure not to touch high-voltage sections such as the chargers and the high-voltage transformer.
- Be sure not to touch rotating/operating sections such as gears, belts, pulleys, fans, etc.
- When servicing the machines with the main switch turned on, be sure not to touch live sections and rotating/operating sections. Avoid exposure to laser radiation.
- Use suitable measuring instruments and tools.

- · Avoid exposure to laser radiation during servicing.
 - Avoid direct exposure to beam.
 - Do not insert tools, parts, etc. that are reflective into the path of the laser beam.
 - Remove all watches, rings, bracelets, etc. that are reflective.

4. Main Service Parts for Safety

• The breaker, door switch, fuse, thermostat, thermofuse, thermistor, etc. are particularly important for safety. Be sure to handle/install them properly.

5. Cautionary Labels

During servicing, be sure to check the rating plate and the cautionary labels such as "Unplug the
power cord during service", "Hot area", "Laser warning label" etc. to see if there is any dirt on their
surface and whether they are properly stuck to the copier.

6. Disposition of Consumable Parts/Packing Materials

- Regarding the recovery and disposal of the copier, supplies, consumable parts and packingmaterials, it is recommended to follow the relevant local regulations or rules.
- 7. When parts are disassembled, reassembly is basically the reverse of disassembly unless otherwise noted in this manual or other related documents. Be careful not to reassemble small parts such as screws, washers, pins, E-rings, toothed washers in the wrong places.
- 8. Basically, the machine should not be operated with any parts removed or disassembled.

9. Precautions Against Static Electricity

• The PC board must be stored in an anti-electrostatic bag and handled carefully using a wristband, because the ICs on it may become damaged due to static electricity.

Caution: Before using the wrist band, pull out the power cord plug of the copier and make sure that there is no uninsulated charged objects in the vicinity.

Caution: Dispose of used batteries and RAM-ICs including lithium batteries according to the manufacturer's instructions.

Attention: Se débarrasser de batteries et RAM-ICs usés y compris les batteries en lithium

selon les instructions du fabricant.

Vorsicht: Entsorgung des gebrauchten Batterien und RAM-ICs (inklusive der Lithium-Batterie)

nach Angaben des Herstellers.

1. ADJUSTMENT ITEMS

1.1 Error Codes

The operator and service technician can check an error condition by using the error on the LCD and the communication error code and status code printed on the transmission/reception journal.

1.1.1 Transmission/reception journal

The transmission/reception journal is shown below. Refer to the error code list and the status code list on the following pages.

							789012 GHIJKL GHIJKL 7 (00 7 (00	MNOPQRSTU	VWXYZ123456 VWXYZABCDEF	
NBR F	FILENBR	R DATE	TIME	DURATION	PGS	Т0	DEPT	ACCOUNT	MODE	STATUS
001	001	NOV-15	12:00AM	00/41	001	12345678901234567890	D 01	9999	G3 330 P	OK 30
002	010	NOV-16	11:10AM	03/47	006	123456			EC 503 P	OK
003	011	NOV-18	01:14PM	00/24	000	0559891024	D 08		EX 512 R	NG DO
مم					-012	<>03123456	D 20	2000	HS 111 B	OK
						1020			EC 602 SB	

^{*}The reception journal has the same format.

1.1.2 Error code list

If an error has occurred during communication, an error code is indicated in the "STATUS" column of the transmission/reception journal.

Take an appropriate action, referring to the following list.

Code		Course	Damadu
Maintenance	User	Cause	Remedy
10	10	There was no recording paper or the	Supply recording paper and insert the
		paper cassette was not installed dur-	paper cassette firmly.
		ing the reception.	
11	11	A recording paper jam occurred dur-	Remove the jammed recording paper.
		ing the reception.	
12	12	A document jam occurred.	Remove the jammed original, then try
			the transmission again.
13	13	During the transmission, any cover	Attempt the transmission again.
		was opened and the transmission	
		stopped.	
20	20	A power failure occurred during the	Attempt the transmission or reception
		transmission or reception, and the	again.
		transmission/reception original data	
		was lost.	
30	30	The [CLEAR/STOP] key was pressed	Attempt the transmission or reception
		during the communication, and the	again.
		communication was stopped.	
32	32	The set number of original pages did	Check the actual original count.
		not match the actual pages transmit-	
		ted.	
33	33	The polling password did not match,	Check the polling password or check if
		or no polling document existed.	there is a polling original on the remote
			party's side, and attempt the polling re-
			ception again.
42	42	During a memory transmission or a	Divide the originals into several trans-
		memory reception, the machine ran	missions for a memory transmission.
		out of image memory. The machine's	For a memory reception, remove the
		image memory was exhausted.	cause of the error, then ask the remote
			party to transmit the original again.

Code		Cause	Romady
Maintenance	User	Cause	Remedy
50	50	Dialing and redialing was attempted	Confirm the phone numbers of the re-
		as many as the specified count but the	mote party.
		line was busy.	
53	53	The password did not match in a Re-	Confirm that both parties are using the
		lay or Mailbox transmission, and the	same system password and the both
		transmission ended in failure.	units are compatible. Then, ask the re-
			mote party to transmit again.
В0	80	DIS (GI) could not detected.	This may happen in some cases of bad
			line condition. Attempt the transmission
			again.
B1	82	DIS/NSF that cannot be handled by	This may happen in some cases of bad
		the sender is received.	line condition. Attempt the transmission
		The receiver received NSS/DCS other	again or ask the remote party to attempt
		than those declared by DIS/NSF.	the transmission again.
B2	82	DCN is received.	This may happen in some cases of bad
			line condition. Attempt the transmission
			again.
В3	80	DCS/DTC was not detected.	This may happen in some cases of bad
			line condition. Attempt the transmission
			again.
B4	82	The sender performed fall-back but the	This may happen in some cases of bad
		transmission was not enabled. The re-	line condition. Attempt the transmission
		ceiver was not detect TCF or detected	again. Or ask the remote party to attempt
		DCN after sending FTT.	the transmission again.
B5	80	CFR (FTT) was not detected.	This may happen in some cases of bad
			line condition. Attempt the transmission
			again.
C0	85	Image signal carrier was not detected.	This may happen in some cases of bad
			line condition. Ask the remote party to
			transmit again.
C1	83	High-speed signal was not detected	This may happen in some cases of bad
		on the receiving side.	line condition. Ask the remote party to
			transmit again.

Code		Cause	Remedy
Maintenance	User	Cause	Kemeuy
C2	85	After detecting the image signal, carrier off was detected on the receiving side.	This may happen in some cases of bad line condition. Ask the remote party to transmit again.
C3	83	After detecting a high-speed signal, EOL was not detected on the receiving side.	This may happen in some cases of bad line condition. Ask the remote party to transmit again.
C4	83	The EOL timer has timed out.	This may happen in some cases of bad line condition. Ask the remote party to transmit again.
D0	80	Post response signal was not detected on the sending side. Post signal was not detected on the receiving side.	This may happen in some cases of bad line condition. Attempt the transmission again. Or ask the remote party to attempt the transmission again.
D1	82	DCN is received.	This may happen in some cases of bad line condition. Ask the remote party to transmit again.
D2	86	RTN/PIN/ERR is received on the sending side. RTN/PIN/ERR is received on the receiving side.	This may happen in some cases of bad line condition. Ask the remote party to transmit again.
E0	21	A printer error occurred during a reception, and the machine is shifted into memory reception mode. How ever, there was not enough residual memory.	Remove the cause of the printer error, then ask the remote party to transmit again.
E6	21	An error relating to the printer has occurred.	Confirm details of the error using the error code and correct the error. Then ask the remote party to transmit again.
F0	83	The communication ended because of a watchdog timer due to an overrun of the software.	Attempt the communication again. If the error occurs frequently, perform a memory clear (except user area.)
F1	83	The communication ended because of an overrun of the software due to hardware noises.	Attempt the communication again. If the error occurs frequently, perform a memory clear (except user area.)

1.1.3 Status code list

Using the 3-digit status code indicated in the "MODE" column of the transmission/reception journal, the communication mode of each job can be confirmed.

Each of the 3-digit of the status code has an individual meaning. These digits represent the following.

• 1st digit

Mode	TX Speed (bps)
0	2400
1	4800
2	7200
3	9600
4	12000
5	14400
6	V.34

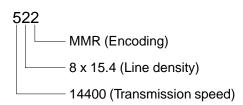
• 2nd digit

Mode	Line density	
0	8 x 3.85	
1	8 x 7.7	
2	8 x 15.4	
3	_	
4	16 x 15.4	
8	300 dpi	

• 3rd digit

Mode	Encoding
0	MH
1	MR
2	MMR
3	JBIG

[Example of indicating a status code]



For the combination of 14400 bps, 8 x 15.4 and MMR, as shown above, a status of "522" is indicate.

1.1.4 Error message

When an error of facsimile communication occurs, an error message is indicated on the LCD. The following show error messages and their appropriate actions.

Display	Cause	Remedy
LINE BUSY	The destination is being used	Wait for a while, then attempt transmis-
	so that transmission cannot	sion again.
	be performed.	
COMMUNICATION ERROR	A communication protocol er-	This may happen in some cases of bad
	ror has occurred.	line condition. Attempt transmission
		again. Or ask the remote party to attempt
		the transmission again.
MEMORY OVERFLOW	The image memory has over-	Press the [CLEAR/STOP] key to clear
	flowed.	the message.
		In memory transmission mode, transmit
		the original divided into several transmit
		sequences, or transmit the original again
		from the beginning when enough
		memory is available.
		In memory reception operation, correct
		the condition which lead to the memory
		reception. Then receive the original
		again.

1.2 Self-diagnosis Modes

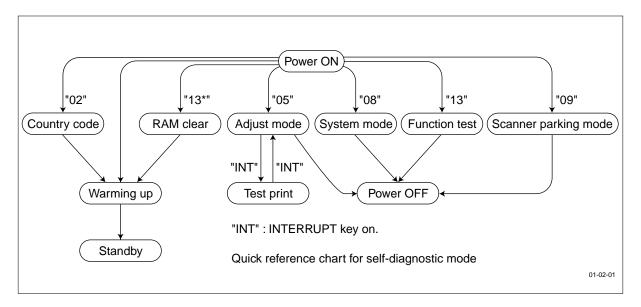
The fax self-diagnosis mode expands the PPC self-diagnosis function. This section describes the self-diagnosis functions that are expanded by attaching the fax kit (GD-1060).

Mode	How to enter	Definition	How to clear
Country code	Turn the power on while	Selects the country code.	*1
	pressing the 0 and 2 keys.		
Adjust mode	Turn the power on while	Finely adjusts copy image quality.	Turn the power off.
	pressing the 0 and 5 keys.	Confirmation printing enabled by	
		pressing the INTERRUPT key.	
System mode	Turn the power on while	Performs setups for the system,	Turn the power off.
	pressing the 0 and 8 keys.	maintenance, operations, printer,	
		scanner, etc.	
Scanner	Turn the power on while	Fixes the scanner carriage in place	Turn the power off.
parking mode	pressing the 0 and 9 keys.	when transporting the copier.	
RAM clear	Turn the power on while	Clears values excluding the ones	*2
	pressing the 1, 3, and * keys.	set in 08-446/447 and in the Ad-	
		just mode (05).	
Service mode *3	Press the PROGRAM key	Performs setups for FUNCTION	Press the PRO-
	while READY is indicated,	TEST and MAINTENANCE, and	GRAM key, and
	and then press the *, #, *,	prints the Service List.	then press the *, #,
	then * keys.		*, then * keys. Or
FUNCTION	After entering the service	Conducts OPE. PANEL TEST,	turn the power off.
TEST	mode, select it on the screen.	PRINT TEST, MODEM TEST, etc.	Or press the COPY
	This mode is selected by		key, press the MAIN
	turning the power on while		MENU key.
	pressing the 1 and 3 keys.		
MAINTENANCE	After entering Service Mode,	Performs setups for Memory Clear,	
	select it on the screen.	facsimile function, etc.	
Service list	After entering Service Mode,	Prints PROTOCOL TRACE, Total	
	select it on the screen.	Error, FUNCTION LIST, etc.	

^{*1:} After inputting the country code, the copier automatically enters the warm up mode.

^{*2:} After the RAM clear, the machine automatically enters the warm up mode.

^{*3:} In the SERVICE MODE, each function of the FUNCTION TEST, MAINTENANCE, or SERVICE LIST in each test item of the TEST MODE (displayed by pressing the PROGRAM key), are added. When the copier enters this mode, these functions are available.



Note: Power ON Turn on the power switch.

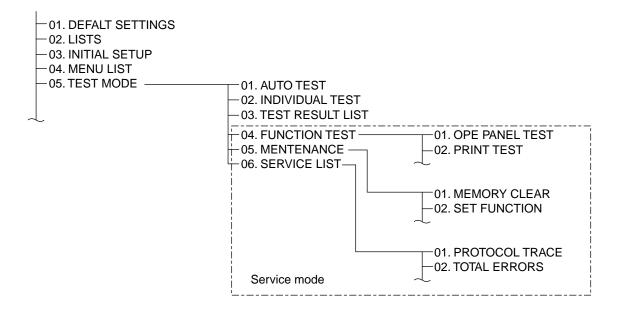
Power OFF Turn on the power switch.

INT Press the INTERRUPT key.

C/S Press the CLEAR/STOP key.

Menu map

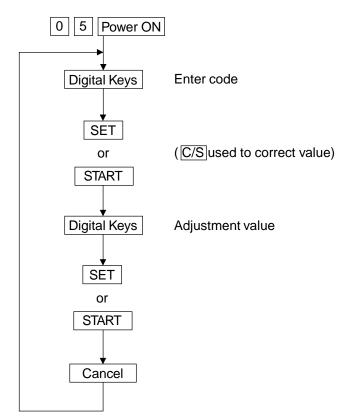
The menu below can be selected by pressing the program key. (However, the menu in the broken-dotted box are displayed only when the copier enters the SERVICE MODE.)



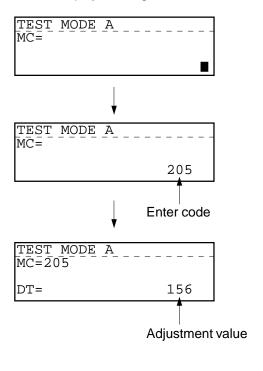
01-02-02

1.2.1 Adjust mode (05)

<Key used in operation>



<Display messages>



ADJUST MODE (05) ITEMS

Printer adjustment

Code	Factor	Adjustment item	Default value	Acceptable value
403	Printer system	Polygon motor speed fine adjustment 16 x 15.4	128	98 - 158
		0.126%/step		
404	Printer system	Polygon motor speed fine adjustment 15.4 x 16	128	98 - 158
		0.121%/step		
413	Printer system	Laser start position 16 x 15.4 Cassette 1	128	0 - 255
414	Printer system	Laser start position 15.4 x 16 Cassette 1	128	0 - 255

Scanned image parameter for FAX

Code	Factor	Adjustment item	Image quality	Default	Acceptable
			mode	value	value *1
700	Density	Simple binarizing threshold adjustment Center	Text	121	0 - 255
		value			$L \leftarrow V \to D$
701	Density	Simple binarizing threshold adjustment Light	Text	18	0 - 255
		step value			$V \rightarrow L$
702	Density	Simple binarizing threshold adjustment Dark	Text	16	0 - 255
		step value			$V \rightarrow D$
710	Density	Manual density fine adjustment Center value	Photo	145	0 - 255
					$L \leftarrow V \to D$
714	Density	Manual density fine adjustment Center value	Text/Photo	140	0 - 255
					$L \leftarrow V \to D$
715	Density	Manual density fine adjustment Light step value	Photo	18	0 - 255
					$V \rightarrow L$
719	Density	Manual density fine adjustment Light step value	Text/Photo	16	0 - 255
					$V \rightarrow L$
720	Density	Manual density fine adjustment Dark step value	Photo	20	0 - 255
					$V \rightarrow D$
724	Density	Manual density fine adjustment Dark step value	Text/Photo	17	0 - 255
					$V \rightarrow D$
725	Density	Auto density fine adjustment	Photo	145	0 - 255
					$L \leftarrow V \to D$
729	Density	Auto density fine adjustment	Text/Photo	138	0 - 255
					$L \leftarrow V \rightarrow D$

*1: L = Light, V = Value, D = Dark

1.2.2 Function table

(1) FUNC 0-39

The settings here cover all the functions of this facsimile unit that can be adjusted by a service technician. The functions consist of 40 tables in with each table having 8 bits $(0 \sim 7)$.

• FUNC 0

Bit	Contents	Link with User Function Setting
7	Terminal ID entry for user mode:	_
	0: Disable	
	1: Enable	
6	Undefined	_
5	Program Continuous Polling open to users:	_
	0: Disable	
	1: Enable	
4	Exchange Type Setting for User Mode:	_
	0: Disable	
	1: Enable	
3	Dial Type Setting for User Mode:	_
	0: Disable	
	1: Enable	
2	Undefined	_
1	Undefined	_
0	Undefined	_

<Remarks>

FUNC 0 Bit 7:

This bit determines whether or not the Terminal ID programming operation is available to users.

FUNC 0 Bit 5:

This bit determines whether or not the Program continuous polling operation is made available to users.

Note: When "Prohibits setting by users" is selected, "PROG. CONT. POLLING" is not displayed in polling programming.

FUNC 0 Bit 4:

This bit determines whether or not selection between PSTN and PABX is made available to users.

FUNC 0 Bit 3:

This bit determine whether or not selection between DP and MF is mode available to users.

Note: When "Disable" is selected, the PSTN/PABX selection screen is not displayed in the dial type setup menu.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3	Download execute condition (RDC):	Yes
	0: No job in memory	
	1: Anytime	
2	Remote access user setting:	Yes
	0: Disable	
	1: Enable	
1	EOL (End of Line) Timer Value:	_
0	00: 5sec.	
	01: 6sec.	
	10: Undefined	
	11: 13sec.	

<Remarks>

FUNC 1 Bit 3:

Upgrading (changing) the firmware normally clears all the Pending Jobs remained in the memory. Refer to page 1-105.

FUNC 1 Bit 2:

Set whether or not the remote access user setting.

Refer to page 1-104.

FUNC 1 Bits 1 and 0:

These bits indicate the setting of the EOL (End of Line) check timer in high-speed image data.

Note: EOL is the code that is put between lines. If the next EOL is not detected within the time specified in this setting, the line is disconnect due to communication error.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5	Frequency Detection Range to recognize as CI:	_
4	00: 12 Hz to 80 Hz	
	01: 16 Hz to 55 Hz	
	10: 20 Hz to 55 Hz	
	11: 22 Hz to 55 Hz	
3	Undefined	_
2	Undefined	_
1	Undefined	_
0		

<Remarks>

FUNC 2 Bits 5 and 4:

These bits program the detection range for frequency to be recognized as CI.

Bit	Contents	Link with User Function Setting
7	Handing of Negative Answer (RTN/PIN):	_
	0: Regards it to be abnormal.	
	1: Regards it to be normal.	
6	Undefined	_
5	Undefined	_
4	Short Protocol:	_
	0: Disable	
	1: Enable	
3	Undefined	_
2	Undefined	_
1	Undefined	_
0	Undefined	_

<Remarks>

FUNC 3 Bit 7:

This bit programs whether or not a received RTN is handled as abnormal (NG).

FUNC 3 Bit 4:

This bit determines whether or not the Toshiba short protocol is enabled or disabled.

Bit	Contents	Link with User Function Setting
7	Transmission attenuator value for V.17 modem:	_
6	0000 to 1111 counts up for every -1dB	
5	0000: 0 dB	
4		
	1111: -15 dB	
3	Undefined	_
2		
1		
0		

<Remarks>

FUNC 4 Bits 7 to 4:

The bit settings allow the user to program the modem transmission attenuation level. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission level should be changed, as a rule.

Bit	Contents	Link with User Function Setting
7	Cable Equalizer:	_
6	00: 0dB	
	01: -4dB	
	10: -8dB	
	11: -12dB	
5	Echo Protect Tone to V.29:	_
	0: Not added	
	1: Added	
4	Echo protection delay (300 bps):	_
	0: No delay	
	1: Delay (500 ms)	
3	Echo protection delay (High speed):	_
	0: No delay	
	1: Delay (500 ms)	
2	Undefined	_
1	Sending of CNG Signal at Manual Transmission:	_
	0: Do not send	
	1: Send	
0	Sending of CED Signal at Manual Reception:	_
	0: Do not send	
	1: Send	

<Remarks>

FUNC 5 Bits 7 and 6:

These bits program the equalizer value which has frequency characteristics. For long-distance communication, a larger equalizer value is recommended as a rule.

FUNC 5 Bit 5:

This bit selects whether or not the echo protect tone is added before the training for V.29 (9600 bps) communication. By adding the echo protect tone, the echo cancel circuit of the satellite line is started up to improve the line status.

FUNC 5 Bit 4:

This bit selects whether or not a delay (500 ms) is inserted before sending the signal at reversing transmission/reception change and the timing is shifted to avoid line echo.

When the echo preventing circuit or echo cancel circuit causes missing of the beginning of the signal, for example, in overseas communications where a delay may be larger, this bit should be set to 1 (on).

FUNC 5 Bit 3:

This bit selects whether or not a delay (500 ms) is inserted before the high-speed signal is sent to shift the timing. Explanation for bit 4 is applicable.

FUNC 5 Bit 1:

This bit selects whether or not the CNG signal is output in manual transmission (on-hook dialing/off-hook dialing). When the receiving terminal uses a switching device, CNG signal output is required (1=on).

FUNC 5 Bit 0:

This bit selects whether or not the CED signal is transmitted in manual reception.

Bit	Contents	Link with User
		Function Setting
7	Initial value of the communication speed designated by DIS/DCS	_
6	signal:	
5	0000: 2400 bps	
4	0001: 14400 bps (V.17)	
	0010: Undefined	
	0011: Undefined	
	0100: 4800 bps	
	0101: 12000 bps (V.17)	
	0110: Undefined	
	0111: Undefined	
	1000: 9600 bps	
	1001: 9600 bps (V.17)	
	1011: Undefined	
	1100: 7200 bps	
	1101: 7200 bps (V.17)	
	1110: Undefined	
	1111: Undefined	
3	Threshold of image error:	_
2	00: 5%	
	01: 10%	
	10: 15%	
	11: 25%	
1	Monitor Type:	_
	0: BT Monitor	
	1: Protocol Monitor	
0	Undefined	_

<Remarks>

FUNC 6 Bits 7 to 4:

These bits set the modem speed. The speed should be programmed when the telephone line quality is poor.

FUNC 6 Bits 3 and 2:

These bits set a threshold value to judge image quality. To make the criteria stringent, 00 (5%) should be selected. When the threshold value is exceeded, RTN will be initiated.

FUNC 6 Bit 1:

This bit selects the monitor type when the line monitor function is turned on. When this bit is set to 0 (BEFORE TRANSMISSION MONITOR), monitoring stops on receiving DIS. When this bit is set to 1 (PROTOCOL MONITOR), monitoring is performed during communication, like forced line monitor.

Bit	Contents	Link with User Function Setting
7	CI-ON Determine Time:	
6	00: 175 ms	
	01: 125 ms	
	10: 800 ms	
	11: 145 ms	
5	CI-OFF Determine Time:	_
4	00: 500 ms	
	01: 350 ms	
	10: 175 ms	
	11: 90 ms	
3	Undefined	_
2	Undefined	_
1		
0		

<Remarks>

FUNC 7 Bits 7 and 6:

These bits program call signal ON time. When CI cannot be received, the value should be changed.

FUNC 7 Bits 5 and 4:

These bits program call signal OFF time.

Bit	Contents	Link with User Function Setting
7	Long Original mode:	Yes
	0: Disable	
	1: Enable	
6	Page Re-transmission at receiving Negative Answer:	_
	0: Not re-transmit	
	1: Transmit	
5	Page-mismatch Display Indication:	_
	0: Not displayed	
	1: Displayed	
4	Undefined	_
3	Undefined	_
2	Undefined	_
1	Undefined	_
0	Undefined	_

<Remarks>

FUNC 8 Bit 7:

This bit determines whether or not Long original function is available.

FUNC 8 Bit 6:

This setting is performed to avoid double transmission due to memory retransmission. When this bit is set to 0 (off), the machine does not perform retransmission and proceeds to next page transmission. During retries, the machine starts transmission of the next page.

FUNC 8 Bit 5:

This setting performs error indications if the number of pages do not match.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5	Undefined	_
4		
3		
2	Speaker volume for all error tone:	Yes
1	000: Level 0 (off)	
0	001: Level 1	
	010: Level 2	
	011: Level 3	
	100: Level 4	
	101: Level 5	
	110: Level 6	
	111: Level 7 (maximum)	

<Remarks>

FUNC 9 Bits 2 to 0:

Allows the user to adjust the volume level of the speaker when an error occurs.

Bit	Contents	Link with User Function Setting
7	Transmission Report after a Direct Document Transmission:	Yes
6	00: Do not print	
	01: Undefined	
	10: Always print	
	11: Print (re-sending of error pages is OK)	
5	Transmission Report Output after Memory Transmission:	Yes
4	000: Not print	
3	001: Undefined	
	010: Always output	
	011: Print (when completed due to communication error.)	
	100: Undefined	
	101: Undefined	
	110: Always print (with sent document)	
	111: Print (when completed due to communication error + with sent	
	document)	
2	Transmission Report Output after Multi-address Transmission:	Yes
1	000: Do not print	
0	001: Do not print	
	010: Always print	
	011: Print (when completed due to communication error)	
	100: Undefined	
	101: Undefined	
	110: Always print (with sent document)	
	111: Print (when completed due to communication error + with sent	
	document)	

<Remarks>

FUNC 10 Bits 7 and 6:

Allows the use to choose how and when a transmission report is printed.

FUNC 10 Bits 5 to 3:

These bits program whether or not the memory transmission report is output. These bits also select output conditions. Allows the user to choose whether or not (and when) a transmission report is printed when transmission is through "memory."

FUNC 10 Bits 2 to 0:

These bits program whether or not the broadcast transmission report is printed and the conditions for printing.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5	Midnight and Noon time setting:	_
	0: 00:00	
	1: 12:00	
4	Print report after a Multi-polling:	Yes
3	00: Do not print	
	01: Do not print	
	10: Always print	
	11: Print (when completed due to communication error.)	
2	Undefined	_
1		
0		

<Remarks>

FUNC11 Bit 5:

Determines how midnight and noon time is displayed.

FUNC 11 Bits 4 and 3:

These bits program whether or not the multi polling transmission report is printed or not and the conditions for printing.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4	Undefined	_
3		
2		
1	Undefined	_
0	Report print at user cancel:	_
	0: Do not print	
	1: Print	

<Remarks>

FUNC 12 Bit 0:

Determines if transmission result report is printed if the user cancels the job.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6	Mailbox Reception List (Local Input):	Yes
	0: Do not print	
	1: Print	
5	Mailbox Reception List (Remote Input):	Yes
	0: Do not print	
	1: Print	
4	Automatic print of Journal:	Yes
	0: Do not print	
	1: Print	
3	Recording contents when Journal is output manually:	Yes
2	00: Transmissions only	
	01: Receptions only	
	10, 11:Transmissions/Receptions	
1	NG Handling on Journal Status:	_
	0: Do not print	
	1: Print	
0	Undefined	_

<Remarks>

FUNC 13 Bit 6:

It determines whether or not the reception list is printed when a mail box option is chosen at own terminal.

FUNC 13 Bit 5:

It determines whether or not the acceptance list is print when a "mail box" information is received.

FUNC 13 Bit 4:

Selection determines whether or not the journal is printed automatically.

FUNC 13 Bits 3 and 2:

These selections determine whether or not the journal is printed manually, and select items to be recorded (transmission, reception or transmission/reception).

FUNC 13 Bit 1:

Selections determine whether or not OK or NG (failed) is added as a communication result on the journal.

Bit	Contents	Link with User Function Setting
7	CI Signal Detect Count until Auto Receive:	Yes
6	0000 to 1111 counts up on every 1 time	
5	0000: 1 time	
4	0001: 1 time	
	0010: 2 times	
	1111: 15 times	
3	Speaker Volume of On-hook and Protocol Monitor:	Yes
2	000: Level 0 (off)	
1	001: Level 1	
	010: Level 2	
	011: Level 3	
	100: Level 4	
	101: Level 5	
	110: Level 6	
	111: Level 7 (maximum)	
0	Undefined	_

<Remarks>

FUNC 14 Bits 7 to 4:

Selections set the CI counter value until the machine enters automatic reception mode.

FUNC 14 Bits 3 to 1:

Selections set speaker volume for the on-hook status or protocol monitor.

Bit	Contents	Link with User Function Setting
7	Discard length of document paper:	_
6	00: No discard (0 mm)	
	01: Discard 13 mm	
	10: Discard 17 mm	
	11: Discard 34 mm	
5	Vertical reduction on recording paper:	_
	0: Prohibited	
	1: Allowed	
4	Undefined	_
3	Undefined	_
2	Discard setting of recording paper:	Yes
	0: OFF	
	1: ON	
1	Maximum reduction rate in vertical reduction:	_
	0: 90%	
	1: 73%	
0	Undefined	_

<Remarks>

FUNC 15 Bits 7 and 6:

Selections determine how much to discard (on the recording paper) when the received data is too long and exceeds the effective record length.

FUNC 15 Bit 5:

The selection determines whether or not data is reduced in vertical direction.

FUNC 15 Bit 2:

Set whether or not the received documents are recording with the discarded portion (Specified by Bits 7 and 6).

FUNC 15 Bit 1:

This bit programs maximum reduction rate in the vertical direction. This bit should be set to 1 (on) when legal size document is reduced and printed on the A4 paper.

Bit	Contents	Link with User Function Setting
7	Adding RTI:	Yes
	0: Not added	
	1: Add	
6	Adding TTI:	Yes
	0: Not added	
	1: Add	
5	Undefined	_
4	Undefined	
3	Undefined	
2		
1		
0		

<Remarks>

FUNC 16 Bit 7:

The setting determines whether or not receiving terminal data is printed on received document.

FUNC 16 Bit 6:

The setting determines whether or not transmitting terminal data is recorded on received document.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4	Undefined	_
3		
2		
1	Memory Reception (Substitution Reception) Function:	Yes
	0: Not available	
	1: Available	
0	ECM Function (Error Correction Mode):	Yes
	0: Not available	
	1: Available	

<Remarks>

FUNC 17 Bit 1:

The selections allows or disallows memory reception.

FUNC 17 Bit 0:

The selection makes ECM available or not available.

Bit	Contents	Link with User Function Setting
7	Privileged Reception setting:	Yes
	0: No	
	1: Yes	
6	JBIG function:	_
	0: Disable	
	1: Enable	
5	File Recovery Transmission setting:	Yes
	0: Not available	
	1: Available	
4	Undefined	_
3	Undefined	_
2	Department Code setting:	Yes
	0: No	
	1: Yes	
1	Undefined	_
0	Undefined	_

<Remarks>

FUNC 18 Bit 7:

This bit setting determines whether or not privileged reception is activated.

FUNC 18 Bit 6:

This bit determines whether or not JBIG function is enabled or disabled.

FUNC 18 Bit 5:

This bit setting determines whether or not file recovery is available.

FUNC 18 Bit 2:

This bit setting determines whether or not the department control function is available.

Bit	Contents	Link with User Function Setting
7	Cover Sheet Setting and Transmitting operations:	Yes
6	00: Prohibited	
	01: Allowed	
	10: Not used	
	11: Allowed (cover image)	
5	Account Code Setting:	Yes
	0: Prohibited	
	1: Allowed	
4	Department code in transmit header:	_
	0: Not added	
	1: Add	
3	Undefined	_
2	Secure Reception function:	Yes
	0: Prohibited	
	1: Allowed	
1	Undefined	_
0	Quick Polling Communication:	_
	0: Prohibited	
	1: Allowed	

<Remarks>

FUNC 19 Bits 7 and 6:

This bit determines whether or not the cover sheet is transmitted together with the document.

FUNC 19 Bit 5:

This bit determines whether or not the account code is added.

FUNC 19 Bit 4:

This bit determines whether or not department code is recorded.

FUNC 19 Bit 2:

This bit determines whether or not security reception is performed.

FUNC 19 Bit 0:

This bits determines whether or not quick polling is carried out.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6	Undefined	_
5		
4	Undefined	_
3	Receive Mode Setting Value:	Yes
	0: TEL (manual receive mode)	
	1: FAX (auto receive mode)	
2	TTI off setting operation for user:	_
	0: Disable	
	1: Enable	
1	Transmission report off setting operation for user:	_
	0: Disable	
	1: Enable	
0	Undefined	_

<Remarks>

FUNC 20 Bit 3:

The selections allow for either auto (FAX) or manual (TEL) reception mode.

FUNC 20 Bit 2:

Enables or disables the Transmission Header print mode.

FUNC 20 Bit 1:

Enables or disables the Transmission Report print mode.

Bit	Contents	Link with User Function Setting
7	Minimum counter of CI detection:	_
6	0001 to 1111 counts up for each time.	
5	0000: 1 time	
4	0001: 1 time	
	0010: 2 times	
	1111: 15 times	
3	CI ring volume value:	Yes
2	000: Level 0 (off)	
1	001: Level 1	
	010: Level 2	
	011: Level 3	
	100: Level 4	
	101: Level 5	
	110: Level 6	
	111: Level 7 (maximum)	
0	Undefined	_

<Remarks>

FUNC 21 Bits 7 to 4:

Minimum number of CI (Call-in) until connection with the remote party is established.

The minimum number of rings until automatic reception is initialized depends on this setting.

FUNC 21 Bits 3 to 1:

These bits determine the CI ring volume.

Bit	Contents	Link with User Function Setting
7	Maximum redial counter setting:	_
6	0001 to 1110 counts up for each time.	
5	0000: No retry	
4	0001: 1 time	
	0010: 2 times	
	1110: 14 times	
	1111: Undefined	
3	Minimum redial counter setting:	_
2	0001 to 1110 counts up for each time.	
1	0000: No retry	
0	0001: 1 time	
	0010: 2 times	
	1110: 14 times	
	1111: Undefined	

<Remarks>

FUNC 22 Bits 7 to 4:

Sets the maximum number of redial attempts.

FUNC 22 Bits 3 to 0:

Sets the minimum number of redial attempts.

Bit	Contents	Link with User Function Setting
7	Maximum redial interval counter setting:	_
6	0001 to 1110 counts up for each minute.	
5	0000: 1 minute	
4	0001: 1 minute	
	0010: 2 minutes	
	1111: 15 minutes	
3	Minimum redial interval counter setting:	_
2	0001 to 1110 counts up for each minute.	
1	0000: 1 minute	
0	0001: 1 minute	
	0010: 2 minutes	
	1111: 15 minutes	

<Remarks>

FUNC 23 Bits 7 to 4:

Sets the maximum time intervals between redials.

FUNC 23 Bits 3 to 0:

Sets the minimum time intervals between redials repeating the statement over again.

Bit	Contents	Link with User Function Setting
7	Priority of recording items in Journal and TX report:	_
6	00: Telephone Number > ID > Name	
	01: Name > Telephone Number > ID	
	10: ID > Telephone Number > Name	
	11: ID > Name > Telephone Number	
5	SUB/PWD/SEP Communication:	_
	0: Not available	
	1: Available	
4	Scanned page when memory is overed:	Yes
	0: Delete	
	1: Send	
3	Undefined	_
2	Line monitor for user mode:	Yes
	0: OFF	
	1: ON	
1	Undefined	_
0	Always monitoring the communication line:	_
	0: Not monitored	
	1: Monitored	

<Remarks>

FUNC 24 Bits 7 and 6:

Sets the order of information to be printed in the journal and TX report information.

FUNC 24 Bit 5:

Sets the availability or non-availability of SUB/PWD/SEP communication.

FUNC 24 Bit 3:

Sets the unit to allow or disallow reduction during copying mode.

FUNC 24 Bit 2:

This bit programs whether or not the transmission communication section programmed with FUNC 6 Bit 1 is monitored.

FUNC 24 Bit 0:

Sets the unit to monitor or not monitor the communication line.

Bit	Contents	Link with User Function Setting
7	Facsimile Separator Page Setting:	Yes
	0: OFF	
	1: ON	
6	Undefined	_
5	Undefined	_
4	Undefined	_
3	Undefined	_
2	Letter Head Paper:	_
1	000: OFF	
0	001: Cassette 1	
	010: Cassette 2	
	011: Cassette 3	
	100: Cassette 4	
	111: Bypass	
	101-110: Undefined	

<Remarks>

FUNC 25 Bit 7:

Facsimile Separator Page is a sheet automatically inserted between each received fax.

FUNC 25 Bits 2 to 0:

These bits select the Letter Head Paper Tray Option.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5	Undefined	_
4	Undefined	_
3	Undefined	_
2		
1		
0		

Bit	Contents	Link with User Function Setting
7	Undefined	_
6	Undefined	_
5	Transmission time on same speed:	_
4	00: 4 times	
	01: 3 times	
	10: 2 times	
	11: 1 time	
3	Reception time on same speed (V.34 only):	_
2	00: 4 times	
	01: 3 times	
	10: 2 times	
	11: 1 time	
1	Use of V.34 Modem:	_
	0: Prohibited	
	1: Allowed	
0	V.34 Modem Initial Speed:	_
	0: 28,800 bps	
	1: 33,600 bps	

<Remarks>

FUNC 27 Bits 5 and 4:

Sets the number of times the unit attempts transmission of a page at the same transmission speed in ECM mode.

FUNC 27 Bits 3 and 2:

Sets the number of times the unit attempts reception of a page at the same reception speed of the V.34.

FUNC 27 Bit 1:

Bit setting allows the user to use or not use the V.34 modem.

FUNC 27 Bit 0:

Bit setting allows the user to choose the speed at which the V.34 modem operates.

Bit	Contents	Link with User Function Setting
7	Transmission attenuator value for V.34 modem:	_
6	Counted up in the range from 0000 to 1111, in units of -1 dB.	
5	0000 to 1111 counts up for every -1dB.	
4	0000: 0 dB	
	0001: -1 dB	
	0010: -2 dB	
	1001: -9 dB	
	1111: -15 dB	
3	Undefined	_
2		
1		
0		

<Remarks>

FUNC 28 Bits 7 to 4:

The bit settings allow the user to program the modem transmission attenuation level. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission level should be changed, as a rule.

Bit	Contents	Link with User Function Setting
7	Date format of clock:	Yes
6	000: MM-DD-YY	
5	001: DD-MM-YY	
	010: YY-MM-DD	
	011: MM-DD-YYYY	
	100: Undefined	
	101: DD-MM-YYYY	
	110: YYYY-MM-DD	
	111: Undefined	
4	Month format of clock:	Yes
	0: Numeric	
	1: Alphabets	
3	Time display of clock:	Yes
	0: 24-hour system	
	1: 12-hour system (AM/PM)	
2	Undefined	_
1	Undefined	_
0	Undefined	_

<Remarks>

FUNC 29 Bits 7 and 5:

Bit settings allow the user to choose the format for displaying the date.

FUNC 29 Bit 4:

Bit setting allows the Date Format to be set for either Alphabet or numeric.

FUNC 29 Bit 3:

Bit setting allows the user to choose between the 24-hour or the 12-hour system.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5	Undefined	_
4		
3		
2		
1		
0		

Bit	Contents	Link with User Function Setting
7	Print report after a ITU-T relay transmission (Originator):	Yes
6	00X: Do not print	
5	010: Always	
	011: On error	
	110: Always (with send document)	
	111: On error (with send document)	
4	Print report after a ITU-T relay transmission (Relay Station):	Yes
3	00X: Do not print	
2	010: Always	
	011: On error	
	110: Always (with send document)	
	111: On error (with send document)	
1	ITU-T Relay Station Reception List:	Yes
	0: Do not print	
	1: Print	
0	Undefined	_

<Remarks>

FUNC 31 Bits 7 to 5:

These bits program whether or not the relay transmission report is printed and the conditions for printing.

FUNC 31 Bits 4 to 2:

These bits program whether or not the relay broadcast transmission report is printed and the conditions for printing.

FUNC 31 Bit 1:

Determines whether the relay reception list is printed, and the conditions for printing.

Bit	Contents	Link with User Function Setting
7	Print report after a Relay Transmission (End Station):	Yes
6	00X: Do not print	
5	010: Always	
	011: On error	
	110: Always (with send document)	
	111: On error (with send document)	
4	A5 Size Transmission Report print after a Direct Document	_
	Transmission:	
	0: Do not Print	
	1: Print	
3	A5 Size Transmission Report print after a Memory Transmission:	_
	0: Do not Print	
	1: Print	
2	Journal Print Page (Key default):	_
1	000: Do not Print	
0	001: 50 communications	
	010: 100 communications	
	011: 150 communications	

<Remarks>

FUNC 32 Bits 7 to 5:

These bits select whether or not the transmission report at the end station is transmitted to the originator by the relay station.

FUNC 32 Bit 4:

This bit select whether or not the Direct Transmission Report is print on A5 size paper.

FUNC 32 Bit 3:

This bit select whether or not the Memory Transmission Report is print on A5 size paper.

FUCN 32 Bits 2 to 0:

Sets the number of communication to be printed on Journal (automatic print).

Bit	Contents	Link with User Function Setting
7	Speaker volume for Key touch tone:	Yes
6	000: Level 0 (OFF)	
5	001: Level 1	
	010: Level 2	
	011: Level 3	
	100: Level 4	
	101: Level 5	
	110: Level 6	
	111: Level 7 (maximum)	
4	Languages in LCD display and report:	Yes
3	00000: English	
2	00001: Italian	
1	00010: Germany	
0	00011: Spanish	
	00100: Br Portuguese	
	00101: Dutch	
	00110: Swedish	
	00111: Finnish	
	01000: Norwegian	
	01001: Portuguese	
	01010: Danish	
	01011: French	
	01100: Ca French	
	01101: Japanese	
	01110: Czech	
	01111: Polish	
	10000: Rumanian	
	10001: Hungarian	
	10010: Greek	

<Remarks>

FUNC 33 Bits 7 to 5:

Allows the user to adjust the Key Touch Tone volume level.

FUNC 33 Bits 4 to 0:

These bits select the language for messages and list indication.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4	Undefined	_
3		
2		
1	Undefined	_
0	Undefined	_

Bit	Contents	Link with User Function Setting
7	Receive Interval Setting:	Yes
6	0000 to 1111 counts up for each minute.	
5	0000: 0 minute (=OFF)	
4	0001: 1 minute	
	0010: 2 minutes	
	1110: 14 minutes	
	1111: 15 minutes	
3	Undefined	_
2	Weekly timer	Yes
	0: Off	
	1: On	
1	Auto supplies order number	_
	0: 1 order	
	1: 2 order	
0	Ext. field bit comm. Function	_
	0: comm	
	1: comm Err.	

<Remarks>

FUNC 35 Bits 7 to 4:

This function insures, there will be a period of time set aside receiving incoming facsimiles during periods of heavy outgoing transmission activity. After every fourth consecutive transmission, this machine will wait incoming facsimiles to be received.

FUNC 35 Bit 2:

Select enabling/disabling timer setup for days of the week.

FUNC 35 Bit 1:

Select the number of sets for supplies order. (0: 1 set, 1: 2 sets)

FUNC 35 Bit 0:

- 0: When the extended bit is on for the DIS or DTC signal and there is no subsequent bit information, the communication is enabled, regarding the sequence up to the extend bit as valid.
- 1: When the extended bit is on for the DIS or DTC signal and there is no subsequent bit information, the communication error will result.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

• FUNC 37

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

• FUNC 39

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

(2) PC FUNC 0-7

The settings here are PC functions, which are divided into 8 tables. Each table has functions of 8 Bits. By entering 0 or 1 in each Bit, its function can be set. The following are details of each table.

• PC FUNC 0

Bit	Contents	Link with User Function Setting
7	Use of PC Interface:	_
	0: Use prohibited	
	1: Use allowed	
6	Send the Receive Documents to PC:	_
5	PC transfer method at reception	
	00: No transfer	
	01: SUB-Address (Only when transferred from the sender)	
	10: All documents	
	11: Undefined	
4	Undefined	_
3	Communication Log Management:	_
	Informing of communication journal to PC print	
	0: Do not inform	
	1: Inform	
2	LDC Function:	_
	0: Prohibited	
	1: Allowed	
1	Printing Function:	_
	0: Prohibited	
	1: Allowed	
0	Scanner Function:	_
	0: Prohibited	
	1: Allowed	

<Remarks>

PC FUNC 0 Bit 7:

This switch allows or prohibits use of the PC interface.

PC FUNC 0 Bits 6 and 5:

If "00" is selected, the data is not sent to the PC. If "SUB Address" is selected, the data is sent to the PC only when the sub address is received from the transmitting party. If "All documents" is selected, all received data are sent to the PC.

PC FUNC 0 Bit 3:

This bit selects whether or not the journal is sent to the PC.

PC FUNC 0 Bit 2:

This switch allows or prohibits any entry or dialing from the PC.

Used in conjunction with PC interface software.

PC FUNC 0 Bit 1:

This switch allows or prohibits any entry from the PC.

PC FUNC 0 Bit 0:

This switch allows or prohibits scanning directed from the PC.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6	Undefined	_
5	Undefined	_
4	Print Rx document after sending to PC:	_
	0: Off	
	1: On	
3	Permanent retry to send the RX data:	_
	0: Off	
	1: On	
2	Undefined	_
1	Undefined	_
0	Undefined	_

<Remarks>

PC FUNC 1 Bit 4:

This bit function is print RX document, after the transmission RX data to PC.

PC FUNC 1 Bit 3:

This bit selects whether or not to continue to transfer the received file until the number of retries set as the transfer retry counter is reached, when the FAX failed to transfer the received file to a PC at PC FAX reception.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3	Undefined	_
2		
1		
0		

Bit	Contents	Link with User Function Setting
7	Retry Counter value at PC transfer:	
6	0000 to 1111 counts up for each retry.	
5	0000: No retry	
4	0001: 1 retry	
	0010: 2 retries	
	1111: 15 retries	
3	Retry interval for PC transfer:	_
2	0001 to 1111 counts up for each minute.	
1	0000: default (2 minutes)	
0	0001: 1 minute	
	0010: 2 minutes	
	1111: 15 minutes	

<Remarks>

PC FUNC 3 Bits 7 to 4:

This switch specifies the number of retries for data transmission to the PC.

PC FUNC 3 Bits 3 to 0:

This switch specifies the time intervals between retries in data transmission to the PC.

Bit	Contents	Link with User Function Setting
7	Retry counter for STAT message to PC:	_
6	0000: No retry	
5	0001: 1 retry	
4	·	
	·	
	·	
	1111: 15 retrys	
3	Time between retry attempts for STAT message:	_
2	0000: default (2 minutes)	
1	0001: 1 minute	
0	·	
	·	
	1111: 15 minutes	

<Remarks>

PC FUNC 4 Bits 7 to 4:

Set the number of retries to notify the PC of fax status information via PC interface.

PC FUNC 4 Bits 3 to 0:

Set the intervals of retries to notify the PC of fax status information via PC interface.

Bit	Contents	Link with User
7	DV enver onen	Function Setting
'	RX cover open 0: Off	_
6	1: On Printer Error	
0	0: Off	_
	1: On	
5	Print jam	_
	0: Off	
	1: On	
4	No process unit	_
	0: Off	
	1: On	
3	Heater Error	_
	0: Off	
	1: On	
2	Process unit near end	_
	0: Off	
	1: On	
1	Process unit end	_
	0: Off	
	1: On	
0	Toner near end	_
	0: Off	
	1: On	

<Remarks>

PC FUNC 5 Bit 7:

Set the function to notify the PC, via PC interface, that the RX cover (including all parts around the paper supply cover) is open.

PC FUNC 5 Bit 6:

Set the function to notify the PC, via PC interface, that a printer error has occurred.

PC FUNC 5 Bit 5:

Set the function to notify the PC, via PC interface, that a printer jam has occurred.

PC FUNC 5 Bit 4:

Set the function to notify the PC, via PC interface, that the process unit is not attached.

PC FUNC 5 Bit 3:

Set the function to notify the PC, via PC interface, that a heater error has occurred.

PC FUNC 5 Bit 2:

Set the function to notify the PC, via PC interface, that the replacement of the process unit is soon required.

PC FUNC 5 Bit 1:

Set the function to notify the PC, via PC interface, that the replacement of the process unit is required.

PC FUNC 5 Bit 0:

Set the function to notify the PC, via PC interface, that the replacement of the toner cartridge is soon required.

Bit	Contents	Link with User Function Setting
7	Toner end	_
	0: Off	
	1: On	
6	Power on	_
	0: Off	
	1: On	
5	Memory over	_
	0: Off	
	1: On	
4	TX cover open	_
	0: Off	
	1: On	
3	Scan paper exist	_
	0: Off	
	1: On	
2	No cassette	_
	0: Off	
	1: On	
1	No paper	_
	0: Off	
	1: On	
0	Paper detect on bypass cassette	_
	0: Off	
	1: On	

<Remarks>

PC FUNC 6 Bit 7:

Set the function to notify the PC, via PC interface, that the toner has run out, via PC interface.

PC FUNC 6 Bit 6:

Set the function to notify the PC, via PC interface, that the power is turned on, via PC interface.

PC FUNC 6 Bit 5:

Set the function to notify the PC, via PC interface, that a memory full state has occurred.

PC FUNC 6 Bit 4:

Set the function to notify the PC, via PC interface, that the TX cover (DF cover (excluding the platen cover)) is open.

PC FUNC 6 Bit 3:

Set the function to notify the PC, via PC interface, that the paper detection sensor has detected the original.

PC FUNC 6 Bit 2:

Set the function to notify the PC, via PC interface, that no paper cassette exists.

PC FUNC 6 Bit 1:

Set the function to notify the PC, via PC interface, that no paper is loaded.

PC FUNC 6 Bit 0:

Set the function to notify the PC, via PC interface, that paper is loaded on the stack feed bypass.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

(3) HOME 0-2

• HOME 0

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5	Undefined	_
4		
3		
2	Undefined	_
1	Undefined	_
0	Undefined	_

• HOME 1

Bit	Contents	Link with User Function Setting
7	Undefined	_
6	Undefined	
5	Undefined	_
4	Undefined	_
3		
2	Undefined	_
1		
0		

• HOME 2

Bit	Contents	Link with User Function Setting
7	Undefined	_
6	Undefined	_
5		
4		
3		
2	Undefined	_
1		
0		

(4) UAD 0-19

The following settings are special functions relating to telephone specifications for each country. The functions are divided into 20 tables. Each table has functions of 8 Bits. By entering 1 or 0 in each Bit, its function are set.

• UAD 0

Bit	Contents	Link with User Function Setting
7	Range of dial tone frequency (PSTN):	_
6	000: 300Hz to 600Hz	
5	001: 300Hz to 650Hz	
	010: 390Hz to 550Hz	
	011: 400Hz to 450Hz	
	100: 350Hz to 480Hz	
	101: 300Hz to 500Hz	
	110: Reserved	
	111: Reserved	
4	Detection time to recognize as dial tone (PSTN):	_
3	000: 2 sec.	
2	001: 800 msec.	
	010: 400 msec.	
	011: 1 sec.	
	100: 1.3 sec.	
	101: 1.8 sec.	
	110: 2.5 sec.	
	111: 500 msec.	
1	Allowable gap during line current detection (PSTN):	_
0	00: Off	
	01: 50 msec.	
	10: 100 msec.	
	11: 200 msec.	

<Remarks>

UAD 0 Bits 7 to 5:

Sets the range of the dial tone frequency that should be detected when calling directly to a PSTN.

UAD 0 Bits 4 to 2:

Sets the time when the dial tone is recognized when calling directly to a PSTN. When a dial tone is continuously detected for the time specified, the facsimile regards the line as being connected.

UAD 0 Bits 1 and 0:

Sets the allowable gap during line current detection when calling directly to a PSTN. In line current detection, even if there are gaps within the time specified in this setting, the counter is not reset and continues to count the duration of line current detection after the current is re-detected.

When "BZT" is selected for "DTC/LCC for PSTN" in UAD 1, this setting is ignored.

• UAD 1

Bit	Contents	Link with User
	Oditionto	Function Setting
7	Allowable gap during dial tone detection (PSTN):	_
6	00: Off	
	01: 70 msec.	
	10: 160 msec.	
	11: 240 msec.	
5	Method to detect dial tone and line current (PSTN):	_
4	000: BZT (DTC/LCC)	
3	001: LCC 5 sec.	
	010: DTC only	
	011: Undefined	
	100: DTC (USA)	
	101: LCC 3 sec.	
	110: Undefined	
	111: No Check	
2	Maximum waiting time for dial tone (PSTN):	_
1	000: 20 sec.	
0	001: 10 sec.	
	010: 8 sec.	
	011: 15 sec.	
	100: 3.3 sec.	
	101: Undefined	
	110: Undefined	
	111: Undefined	

<Remarks>

UAD 1 Bits 7 and 6:

Sets the allowable gap during dial tome detection when calling directly to a PSTN. In dial tone detection, even if there are gaps within the time specified in this setting, the counter is not reset and continues to count the duration of dial tone detection after the dial tone whose frequency is in the specified range is re-detected.

UAD 1 Bits 5 to 3:

Sets the method to detect the dial tone and line current when calling directly to a PSTN.

• BZT (DTC/LCC) Performs German BZT type of detection

• LCC 5 sec. Only 5 sec. Line current is detection

• DTC only Only dial tone is detected.

• DTC (USA) Only dial tone is detected. Duration of detected tone until it is regarded as the

dial tone is fixed 3.3 msec. Even if no dial tone is detected, dialing will be

started.

LCC 3 sec. 3 second line current detection is performed.
 No check Neither dial tone nor line current is detected.

UAD 1 Bits 2 to 0:

Sets the maximum waiting time for dial tone detection when calling directly to a PSTN. If the dial tone is not detected and redial attempt or internal retry will be performed later.

• UAD 2

Bit	Contents	Link with User Function Setting
7	Range of dial tone frequency (PABX):	_
6	000: 300Hz to 600Hz	
5	001: 300Hz to 650Hz	
	010: 390Hz to 550Hz	
	011: 400Hz to 450Hz	
	100: 350Hz to 480Hz	
	101: 300Hz to 500Hz	
	110: Reserved	
	111: Reserved	
4	Detection time to recognize as dial tone (PABX):	_
3	000: 2 sec.	
2	001: 800 msec.	
	010: 400 msec.	
	011: 1 sec.	
	100: 1.3 sec.	
	101: 1.8 sec.	
	110: 2.5 sec.	
	111: 150 msec.	
1	Allowable gap during line current detection (PABX):	_
0	00: Off	
	01: 50 msec.	
	10: 100 msec.	
	11: 200 msec.	

<Remarks>

UAD 2 Bits 7 to 5:

Sets the range of the dial tone frequency that should be detected when calling through a PABX.

UAD 2 Bits 4 to 2:

Sets the time when the dial tone is recognized when calling through a PABX. When a dial tone is continuously detected for the time specified in this setting, the facsimile regards the line as being connected.

UAD 2 Bits 1 and 0:

Set the allowable gap during line current detection when calling through a PABX. In line current detection, even if there are gaps within the time specified in this setting, the counter is not reset and continues to count the duration of line current detection after the current is re-detected.

• UAD 3

Bit	Contents	Link with User Function Setting
7	Allowable gap during dial tone detection (PABX):	_
6	00: Off	
	01: 70 msec.	
	10: 160 msec.	
	11: 240 msec.	
5	Method to detect dial tone and line current (PABX):	_
4	000: BZT (DTC/LCC)	
3	001: LCC 5 sec.	
	010: DTC only	
	011: Undefined	
	100: DTC (USA)	
	101: LCC 3 sec.	
	110: Undefined	
	111: No Check	
2	Maximum waiting time for dial tone (PABX):	_
1	000: 20 sec.	
0	001: 10 sec.	
	010: 8 sec.	
	011: 15 sec.	
	100: 3.3 sec.	
	101: Undefined	
	110: Undefined	
	111: Undefined	

<Remarks>

UAD 3 Bits 7 and 6:

Sets the allowable gap during dial tome detection when calling through a PABX. In dial tone detection, even if there are gaps within the time specified in this setting, the counter is not reset and continues to count the duration of dial tone detection after the dial tone whose frequency is in the specified range is re-detected.

UAD 3 Bits 5 to 3:

Sets the method to detect the dial tone and line current when calling through a PABX.

BZT (DTC/LCC) Performs German BZT type of detection
 LCC 5 sec. Only 5 sec. Line current is detection

• DTC only Only dial tone is detected.

• DTC (USA) Only dial tone is detected. Duration of detected tone until it is regarded as the

dial tone is fixed 3.3 msec. Even if no dial tone is detected, dialing will be started.

LCC 3 sec. 3 second line current detection is performed.
 No check Neither dial tone nor line current is detedted.

UAD 3 Bits 2 to 0:

Sets the maximum waiting time for dial tone detection when calling through a PABX. If the dial tone is not detected and redial attempt or internal retry will be performed later.

Bit	Contents	Link with User
7	Disputance fragman as you are	Function Setting
7	Busy tone frequency range:	_
6	000: 300Hz to 600Hz	
5	001: 350Hz to 550Hz	
	010: 300Hz to 500Hz	
	011: 300Hz to 700Hz	
	100: Reserved	
	101: Reserved	
	110: Reserved	
	111: Reserved	
4	Busy tone before dialing:	_
	0: No check	
	1: Check	
3	Busy tone after dialing:	_
	0: No check	
	1: Check	
2	Dial T1 timer:	_
1	000: 60 sec.	
0	001: 35 sec.	
	010: 90 sec.	
	011: 55 sec.	
	100: 145 sec.	
	101: Undefined	
	110: Undefined	
	111: Undefined	

<Remarks>

UAD 4 Bits 7 to 5:

Sets the range where a busy tone frequency is detected.

UAD 4 Bit 4:

Set whether a busy tone is detected before dialing as well as the dial tone and line current.

UAD 4 Bit 3:

Set whether a busy tone is detected after dialing as well as the dial tone and line current.

UAD 4 Bits 2 to 0:

Sets the value of the T1 timer in the calling terminal.

Bit	Contents	Link with User Function Setting
7	USCC #12:	_
	0: Enable	
	1: Disable	
6	Undefined	_
5	Undefined	_
4	Undefined	_
3	Undefined	_
2	Undefined	_
1	Undefined	_
0		

<Remarks>

UAD 5 Bit 7:

If T1 time-out (no response from remote) occurs continuously 12 time in automatic dialing, all of the programmed calling jobs are cleared.

- The counter is reset when an effective signal is detected.
- The number of T1 time-out in automatic dialing is counted (manual dialing not included).

Bit	Contents	Link with User Function Setting
7	Type of dial pulse:	_
6	00: Normal	
	01: Shift	
	10: Reverse	
	11: Undefined	
5	Undefined	_
4	Internal retry setting:	_
	0: Disable	
	1: Enable	
3	Dial Retry Counter:	Yes
2	0000 to 1110 counts up for each time.	
1	0000: No redialing	
0	0001: 1 time	
	0010: 2 times	
	0011: 3 times	
	1110: 14 times	
	1111: Reserved	

<Remarks>

UAD 6 Bits 7 and 6:

Sets the type of dial pulse sent when each dial number is dialed.

Dial Key	Normal	Shift	Reverse
		(n+1)	(10-n)
1	1	2	9
2	2	3	8
3	3	4	7
4	4	5	6
5	5	6	5
6	6	7	4
7	7	8	3
8	8	9	2
9	9	10	11
0	10	1	10

UAD 6 Bit 4:

Sets whether internal retries are performed. "Internal Retry" is the dialing attempt performed when line connection cannot be established due to a line current or dial tone not being detected before dialing. Internal retries are not counted as redial attempts.

UAD 6 Bits 3 to 0:

These bits program the number of redial times.

Bit	Contents	Link with User Function Setting
7	Alternate time when a pause is set as part of a dial number:	_
6	000:None (0 sec.)	
5	001: 1 sec.	
	010: 2 sec.	
	011: 4 sec.	
	100: 3.3 sec.	
	101: 10 sec.	
	110: Undefined	
	111: Undefined	
4	Undefined	_
3	Undefined	_
2		
1		
0		

<Remarks>

UAD 7 Bits 7 to 5:

These bits programs the switch time when a pause is entered as a part of a dial number.

Bit	Contents	Link with User Function Setting
7	Inter-digit pause setting:	_
6	00: 900 msec.	
	01: 550 msec.	
	10: 700 msec	
	11: 800 msec.	
5	Single pause setting:	_
	0: Disable	
	1: Enable	
4	Undefined	_
3	Interval between redialing attempts:	Yes
2	0001 to 1111 counts up for each minute.	
1	0000: default (3 minutes)	
0	0001: 1 minute	
	0010: 2 minutes	
	1111: 15 minutes	

<Remarks>

UAD 8 Bits 7 and 6:

Sets the pause time that is put between dial digits in pause dialing.

UAD 8 Bit 5:

When "Enable" is selected, only the first pause is effective and others are ignored even if the pause key is pressed more than once in dialing to one destination.

UAD 8 Bits 3 to 0:

These bits program the redial intervals.

Bit	Contents	Link with User
		Function Setting
7	Equalizer Value at MF Dialing:	_
6	00: 0 dB	
	01: -4 dB	
	10: -8 dB	
	11: -12 dB	
5	DP Make/Break:	_
4	000: 60/40 msec. (10 PPS)	
3	001: 67/33 msec. (10 PPS)	
	010: 63/37 msec. (10 PPS)	
	011: 50/50 msec. (10 PPS)	
	100: 67/33 msec. (20 PPS)	
	101: for TW (33.3%)	
	110: Undefined	
	111: Undefined	
2	MF Timing:	_
1	000: 80/80 msec.	
0	001: 70/70 msec.	
	010: 70/150 msec.	
	011: 60/60 msec.	
	100: 80/100 msec.	
	101: 150/50 msec.	
	110: 150/240 msec.	
	111: Undefined	

<Remarks>

UAD 9 Bits 7 and 6:

These bits program the equalizer value for the MF signal.

UAD 9 Bits 5 to 3:

Sets the make time and brake time during pulse dialing.

UAD 9 Bits 2 to 0:

Sets the tone on and tone off times for tone dialing (MF).

Bit	Contents	Link with User Function Setting
7	Dial tone reception attenuation (PSTN):	_
6	000: -24dB	
5	001: -27dB	
	010: -30dB	
	011: -33dB	
	100: -36dB	
	101: -39dB	
	110: -42dB	
	111: -45dB	
4	Undefined	_
3	Attenuator Value at MF Dialing:	_
2	0000 to 1111 counts up for each -1 dB.	
1	0000: 0 dB	
0	0001: -1 dB	
	0010: -2 dB	
	0110: -6 dB	
	1111: -15 dB	

<Remarks>

UAD 10 Bits 7 to 5:

Sets the dial tone's attenuation detection level during reception (PSTN).

UAD 10 Bits 3 to 0:

These bits program the attenuator value for the MF signal.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4	Undefined	_
3	Undefined	_
2		
1		
0		

• UAD 12

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3	Undefined	_
2		
1		
0		

• UAD 13

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3	Undefined	_
2		
1		
0		

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3	Dial tone reception attenuation (PABX):	_
2	000: -24dB	
1	001: -27dB	
	010: -30dB	
	011: -33dB	
	100: -36dB	
	101: -39dB	
	110: -42dB	
	111: -45dB	
0	Undefined	_

<Remarks>

UAD 14 Bits 3 to 1:

Sets the dial tone's attenuation detection level during reception (PABX).

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4	Undefined	_
3		
2		
1	Undefined	_
0	Undefined	_

Bit	Contents	Link with User Function Setting
7	Busy Tone ON Determine Time:	_
6	000: 80 to 650 msec.	
5	001: 450 to 550 msec.	
	010: 200 to 650 msec.	
	011: 400 to 600 msec.	
	100: 120 to 550 msec.	
	101: 420 to 610 msec.	
	110: Reserved	
	111: Reserved	
4	Busy Tone OFF Determine Time:	_
3	000: 80 to 650 msec.	
2	001: 450 to 550 msec.	
	010: 200 to 650 msec.	
	011: 400 to 600 msec.	
	100: 160 to 600 msec.	
	101: 170 to 700 msec.	
	110: 380 to 630 msec.	
	111: 150 to 470 msec.	
1	Undefined	_
0	Undefined	_

<Remarks>

UAD 16 Bits 7 to 5:

These bits program busy tone signal ON time.

UAD 16 Bits 4 to 2:

These bits program busy tone signal OFF time.

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

• UAD 18

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

• UAD 19

Bit	Contents	Link with User Function Setting
7	Undefined	_
6		
5		
4		
3		
2		
1		
0		

(5) EXTYPE

The settings here are the Exchange functions. This table has functions of 8 Bits. By entering 0 or 1 in each Bit sets, its function. The following is details of this Table.

• EXTYPE 1

Bit	Contents	Link with User Function Setting			
7	Exchange Type:	Yes			
	0: PSTN				
	1: PABX				
6	Undefined	_			
5	Undefined	_			
4	Dial Type:	Yes			
	0: DP				
	1: MF				
3	PABX Access for Local line:	Yes			
2	00: No Setting				
	01: Not Used				
	10: Access Digit				
	11: Flash				
1	Flash timing:	_			
0	00: 80 ms				
	01: 100 ms				
	10: 270 ms				
	11: Undefind				

<Remarks>

EXTYPE 1 Bit 7:

This bit sets the Exchange Type (PSTN/PABX).

EXTYPE 1 Bit 4:

This bit sets the dialing method (DP/MF).

(6) ACC DGT1-2

The settings here are Access Digit functions, which are divided into 2 tables. Each table has functions of 8 Bits. By entering 0 or 1 in each Bit, its function can be set. The following are details of each table.

• ACC DGT 1

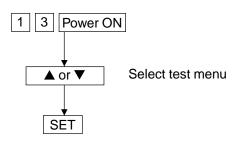
Bit	Contents	Link with User Function Setting
7	1st Digit (Local Use)	_
6		
5		
4		
3	2nd Digit (Distant Use)	_
2		
1		
0		

• ACC DGT 2

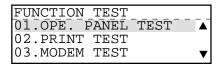
Bit	Contents	Link with User Function Setting
7	3rd Digit (Local & Distant Use)	_
6		
5		
4		
3	Undefined	_
2		
1		
0		

1.2.3 Function test

<Key used in operation>



<Display messages>



The following tests can be conducted in the function test mode.

This section only describes PRINT TEST and MODEM TEST as the functions available by attaching the fax kit. For the other tests, refer to the Service Handbook.(DP1600/2000/2500)

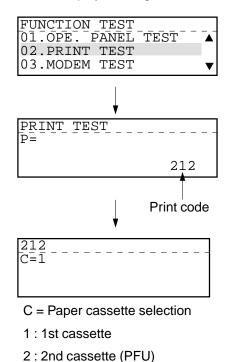
- 01. OPE PANEL TEST
- 02. PRINT TEST
- 03. MODEM TEST (Factory test)
- 04. SENSOR TEST
- 05. SRAMTEST
- 06. DRAMTEST
- 07. CLOCK IC TEST
- 08. SCANNER TEST
- 09. CODEC TEST
- 10. OUTPUT TEST
- 11. PRINTER BOARD TEST

(1) 02. PRINT TEST

<Key used in operation>

Digital Keys Digital Keys Digital Keys SET START C/S *1

<Display messages>



3: 3rd cassette (PFP)

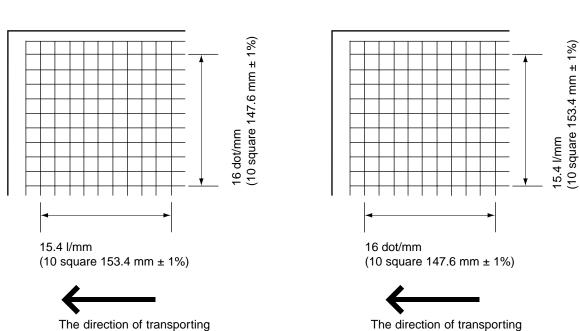
* Be sure to press this key after printing starts. (If this key is not pressed, the copier keeps printing.)

PRINT TEST ITEM

CODE	FACTOR		REMARKS	
212	Image processing	Grid pattern	16 dot x 15.4 l/mm	FAX
213	Image processing	Grid pattern	15.4 l/mm x 16 dot	FAX

Test Pattern

<212> <213>



[The adjustment of output magnification]

It is unnecessary to adjust the fax image magnification.

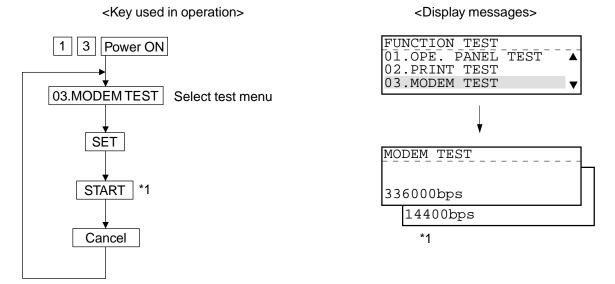
If you adjust it with '05' adjustment mode of the copier side, the image magnification of the fax side will be adjusted automatically.

(2) 03. MODEM TEST (Factory test)

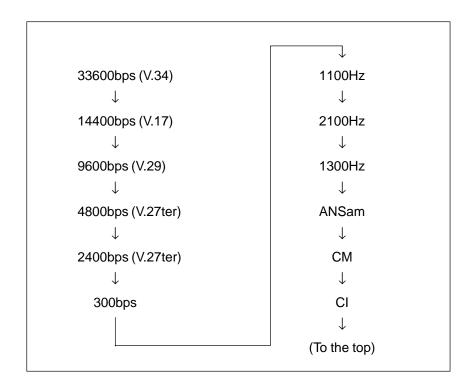
When the FAX kit is not installed, the test is not present.

This test checks signal output from the modem.

The following signals are output at frequency that is changed every time the START key is pressed once the test starts.



*1: The modem's oscillation frequency changes every time the START key is pressed.



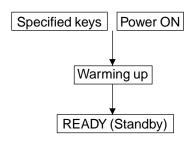
1.2.4 MAINTENANCE

(1) MEMORY CLEAR

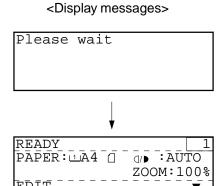
There are two ways to perform memory clear; the power on while pressing the specified keys, and partial memory clear by selecting items to be cleared from the menu.

Operation Procedure

a) Memory clear at the startup



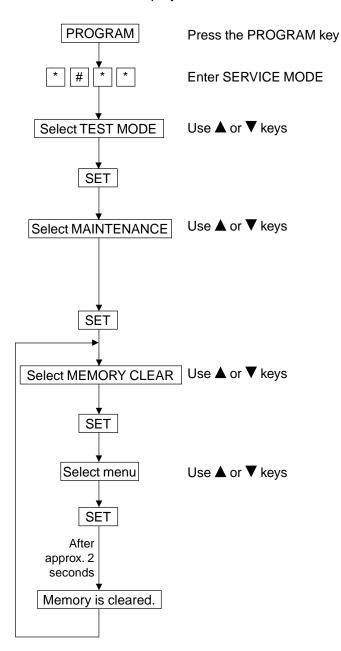
<Key used in operation>



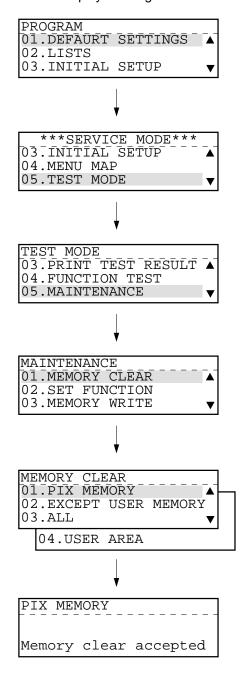
b) Item selection from menu

<Key used in operation>

When READY is displayed



<Display messages>



RAM clear table

				Se	rvice	paramet	er setting				
RAM data	Country setting	FUNC/ SYSFUNC/ UAD etc.	Service adjustment data ([0][5]) area	Service setting ([0][8])	data	Journal report data	Error data on FAX communi- cation	Protocol trace data	Counter data *a)	Drum related data *b)	
[1] [3] [*] and turn ON		Set default value		Set de value	fault *e)	Clear	Clear	Clear			
[1] [3] [#] and turn ON								Clear	Clear		
[*] [#] and turn ON						Clear	Clear	Clear			
[START] [STOP] and		Set default		Set de	fault			01			
turn ON		value		value	*e)			Clear			
[0] [8] and turn ON, then			Set default	Set de	fault			6.			
[6] [6] [5] *1)			value	value				Clear			
[0] [2] and turn ON	Changeable	Set default value		Set de value	fault *e)	Clear	Clear	Clear			
1. PIX MEMORY											
2. EXCEPT USER MEMORY		Set default value				Clear	Clear				
3. ALL		Set default		Set de	fault	٥.	0.				
(Same as "[1] [3] [*] and turn ON")		value		value	*e)	Clear	Clear	Clear			
4. USER AREA								Clear			

*1) In case of replacing the main board in the field, you can initializes the parameters related to copy function stored on the board using this function.

Therefore when this function is performed, it is necessary to readjust the following items.

- 1) Adjustment of paper aligning value
- 2) Printer unit adjustment
- 3) Scanner unit adjustment
- 4) ADF/RADF installation setting

	User parameter setting									
Dial data *c)	One touch data	Department code data	Secure receive data	Station name	ID number	Passward *d)	Pending FAX job data	Stored JOB data		
Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
							Clear			
								Clear		
Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
							Clear			
							Clear			
Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear			

^{*}a) Total Scan, Print jam, Job counter, Counter for each paper size

^{*}b) Total Print, Drum counter, Toner counter, etc.

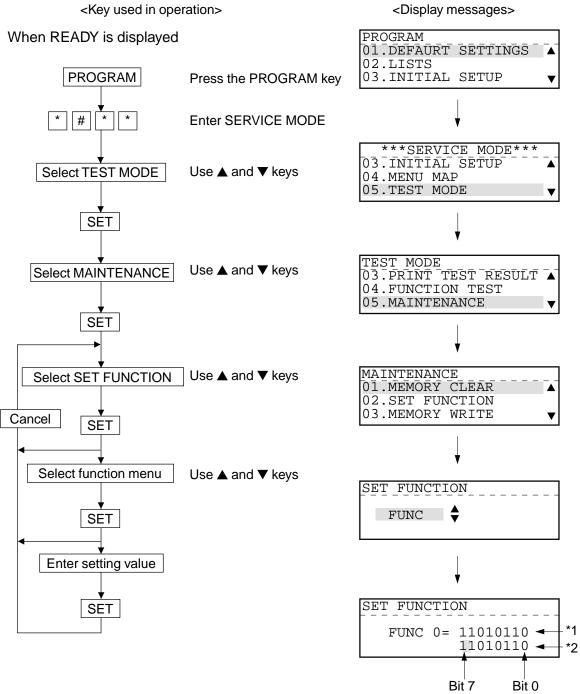
^{*}c) One touch, Speed, Group etc.

^{*}d) Polling Password, Remote Access Code

^{*}e) 08-446, 08-447 not cleared

(2) SET FUNCTION

You can refer to and change the set values in each table (FUNC, UAD, TEL FUNC, EX TYPE, ACC DGT, PCFUNC) for function programming.

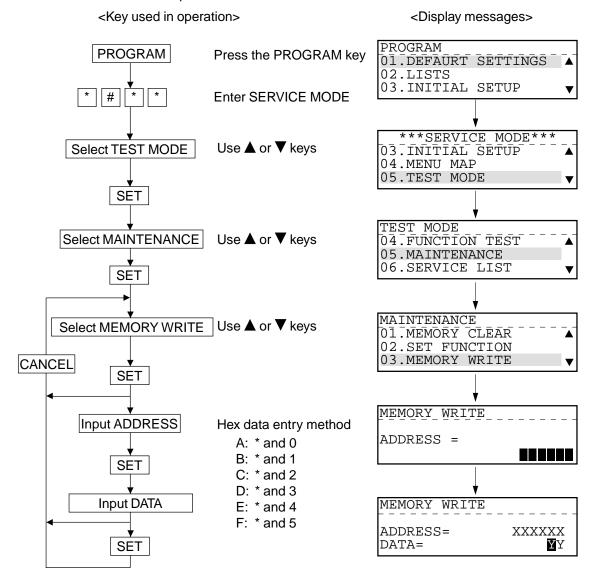


Notes: 1. *1: Displays the numeric value currently set (cannot be changed).

- 2. *2 : Displays the numeric value to be entered now (Can only be altered at the point of the cursor).
- 3. Bit 7 is shown on the LCD display as the left most digit.
- 4. By entering 1 or 0 in the bit with the desired function, the function is to be set.
- 5. Press the SET key to store the new setting and advance the next function.

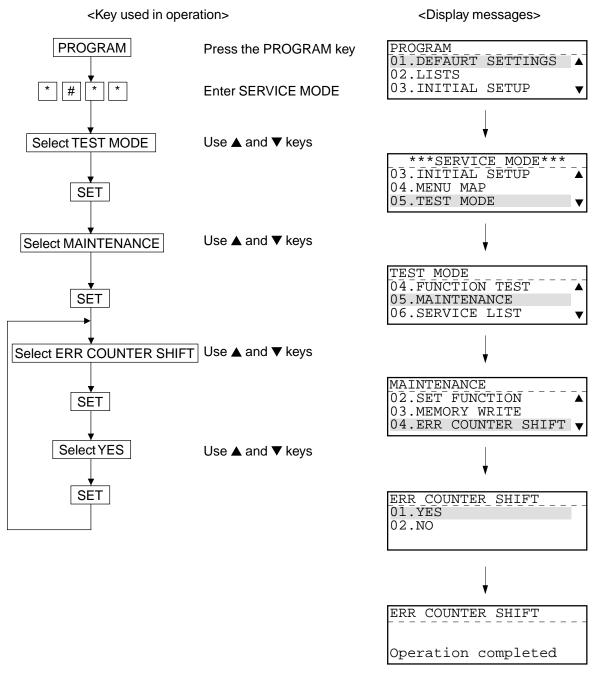
(3) MEMORY WRITE

You can refer to and change the data stored at each address in the SRAM and DRAM. ADDRESS and DATA input it with hex data.



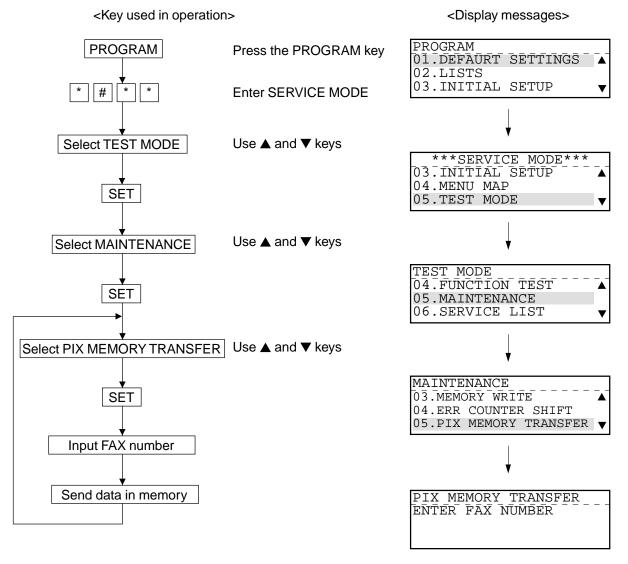
(4) ERROR COUNTER SHIFT

The actual information in the error count list is usually automatically moved to the history side every 1000 communications unless error counter shift is performed. Therefore, this is used to move the information to the history side before reaching 1000 communications. When error count shift is performed, the count values on the actual side of the error count list are moved to the history side and the values on the actual side are initialized. The information having been moved to the history side is added to the previous values.



(5) PIX MEMORY TRANSFER

When the original(s) received cannot be printed out because of printer trouble, etc., this function is used to transfer the data in pix memory to the specified location. When you select PIX MEMORY TRANSFER and specify a destination, the data in pix memory will be transferred to the specified destination.

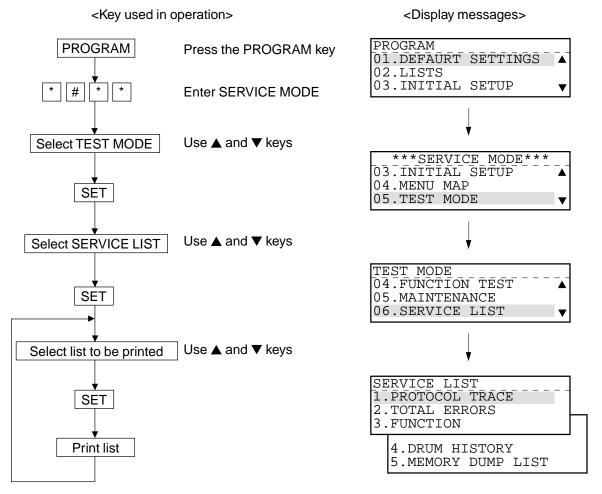


Note: To specify a transfer destination, you can enter the abbreviated number or press the one-touch key as well as the direct entry of the telephone number.

1.2.5 SERVICE LIST

This function allows you to print lists. There are six kinds of lists that can be printed.

- PROTOCOL TRACE *1
- TOTAL ERRORS *1
- FUNCTION (FUNC 05, 08 List)
- DRUM HISTORY
- MEMORY DUMP LIST
- FUNCTION (Jam counter, ROM ver.)
- *1: To be printed when the FAX Kit (GD-1060) is installed.



(1) PROTOCOL TRACE

This list is printed out with a title of PROTOCOL TRACE LIST. The result of the last communication job just before the list is printed out is printed out. You can check the communication protocol with this result.

Print Items

TIME The time when signal transmission is begun or the time when signal reception is

begun is printed in "minutes: seconds."

SEND/RCV The send signal is printed as S, and the receive signal as R. Also, the high-speed

tracing signal is printed as TCF, and the high-speed image signal as PIX.

FCF DATA Facsimile control field.
The FCF command is printed.

FIF DATA When there is an information field, its contents are printed in either HEX, BIN or TEL

format.

ASCII FIF is converted to ASCII code and printed.

PROTOCOL TRACE LIST

PAGE : 001

TIME : NOV-15-00 04:09PM TEL NUMBER : 12345678901234567890

E-MAIL : ABCDEFGHIJKLMNOPQRSTUVWXYZ12345678901234
NAME : ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMN

TIME	SEND/RCV	FCF DATA	FIF DATA	ASCII
07:20	R	NSF	0000900090940C0C0C0C8C4CCC2CAC6CEC1C44F9	L, ID
			FFFFFFFFFFFFFFFFF80E28041800C	Α
07:20	R	CSI	2020202020202020202020202020202020323239	229
07:21	R	DIS	00000000 01110111 00011001 00100011	W #
			00001011 11000001 00000001	

(2) TOTAL ERRORS

This list is printed out with a title of ERROR COUNT LIST. It indicates the history of errors to check for errors attributable to the line conditions.

Print Items

TRANSMISSION/RECEPTION Indicates whether the error is on the sending side or on the receiv-

ing side.

STATUS HISTORY Prints the error codes in the ascending order.

Prints the history of errors moved from the actual side by "occurred

error count / communication count."

The time when moved to the history side is printed in the time print

field (top line).

ACTUAL Prints the present error occurred status by "occurred error count /

communication count." The time when counting is started is printed in the time print field (top line). When the communication count reaches 1000 on the actual side, the error occurred status is automatically moved to and added to the history side and the actual side

is cleared.

Even if the communication count has not reached 1000, if error counter shift is executed, the counts up to the present will be moved

from the actual side to the history side.

ERROR COUN	IT LIST		XXXXXXXXXX XXXXXXXXX XXXXXXXXXX XXXXX	
		PAGE : 001		
		TIME : NOV-15-00	04:09PM	
		TEL NUMBER : 12345678901234567890		
		E-MAIL : ABCDEFGHIJ	KLMNOPQRSTUVWXYZ1234567890123	
		NAME : ABCDEFGHIJ	IKLMNOPQRSTUVWXYZABCDEFGHIJKLM	
TRANSMISSION	07.47110	HISTORY	OUDDENT COUNTED	
TRANSMISSION	STATUS	пізіокі	CURRENT COUNTER	
TRANSMISSION		00 10:57AM - NOV-12-00 08:13AM	NOV-12-00 09:22AM -	
TRANSMISSION				
TRANSMISSION	NOV-15-	00 10:57AM - NOV-12-00 08:13AM	NOV-12-00 09:22AM -	
TRANSMISSION	NOV-15-	00 10:57AM - NOV-12-00 08:13AM 0918 / 1000	NOV-12-00 09:22AM -	

(3) FUNCTION (FUNC, 05, 08 List)

This list is printed out with a title of SETTING REPORT FOR MAINTENANCE. It prints a list of present function settings.

Print Items

• 1st Sheet

COUNTRY	Country code
FUNC 0 to 39	Prints the settings at this point of time in binary format.
PC FUNC 0 to 7	\downarrow
HOME 0 to 2	\downarrow
UAD 0 to 19	\downarrow
EX TYPE 1	\downarrow
ACC DGT 1 to 2	\downarrow

• 2nd Sheet

05 xxx Prints the set values at this point of time.

08 xxx ↓

(xxx is code number.)

FUNCTION LIST FOR MAINTENANCE								
			PAGE TIME	: 001 : NOV-1	5-00 04	4:09PM		
COUNTRY		0	001					
FUNC	0	10101101	AD	HOME	0	00000010 02		
FUNC	1	10100011	A3	HOME	1	00000000 00		
FUNC	2	10000110	86	HOME	2	0000001 01		
FUNC	3	01011000	58	UAD	0	00101110 2E		
FUNC	4	10101010	AA	UAD	1	01010001 51		
FUNC	5	01011011	5B	UAD	2	00101110 2E		
	_	_		UAD	3	01101001 69		
				UAD	4	0000 <u>1011</u>		

(4) DRUM HISTORY

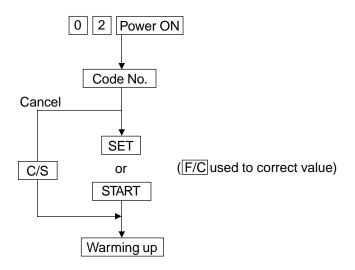
Refer to page 1-45 of Service Handbook (DP1600/2000/2500).

(5) MEMORY DUMP

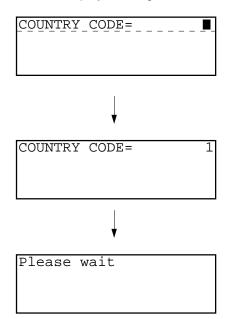
Refer to page 1-46 of Service Handbook (DP1600/2000/2500).

1.2.6 Country code

<Key used in operation>



<Display massages>



Country/Region			Country/Region	Code	
United States	US	1	Ireland	IE	353
Canada	CA	9999	Singapore/Saudi Arabia	SG/SA	65
Germany	DE	49	Hong Kong	HK	852
United Kingdom	GB	44	Australia/New Zealand	AU/NZ	61
Italy	IT	39	France	FR	33
Sweden	SE	46	Latin America (LT)	LA1	55
Norway	NO	47	Latin America (A4)	LA2	9998
Denmark	DK	45	Russia	RU	7
Switzerland	СН	41	Poland	PL	48
Finland	FI	358	Hungary	HU	36
Netherlands	NL	31	Czech Republic	CZ	42
Austria	AT	43	Turkey	TR	90
Belgium	BE	32	South Africa	ZA	27
Portugal	PT	351	Taiwan	TW	886
Spain	ES	34	China	CN	86
Greece	GR	30		•	'

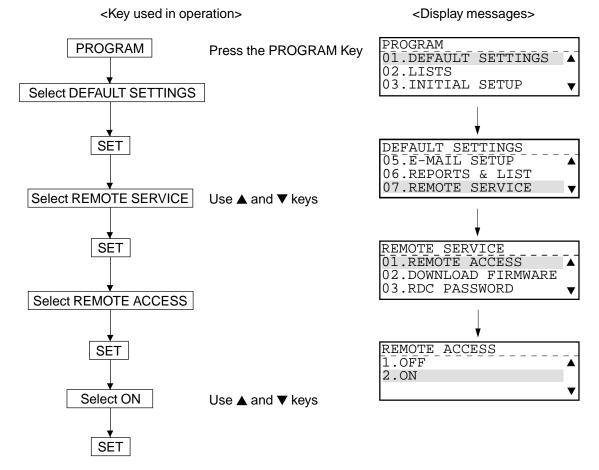
1.3 Remote Service

1.3.1 RDC (Remote Diagnosis Configuration) Service

(1) Remote Access

The remote access function allows checking of the copier conditions, and enabling the function for changing setting data of the copier and the firmware that controls the copier, on a remote basis, via communication.

To enable the remote access function, be sure to follow the setting procedure described below.



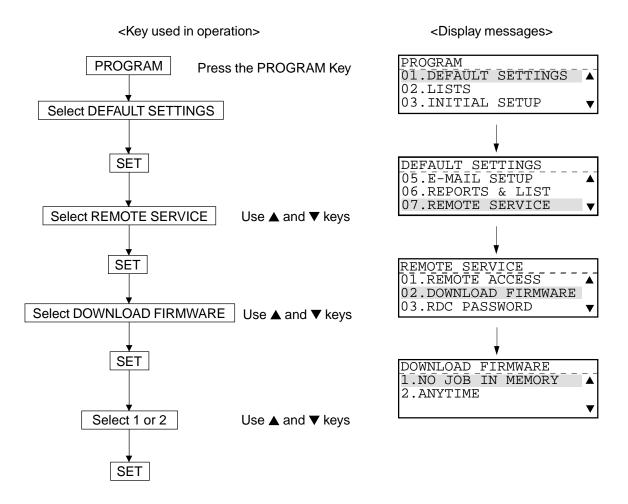
Note: When OFF is selected for Remote Access, accesses through RDC cannot be made. Requests for uploading and downloading the phonebook, retrieving the list, downloading programs, and automatic accesses, over the line, are rejected. However, this setting does not have influence on accesses through LDC or the network.

(2) Downloading Firmware

The firmware that controls the copier, language information and function setting information can be upgraded over the line via the network, from the RDC Center. Either of the following two conditions can be selected:

• NO JOB IN MEMORY: Possible when there is no reserved fax job.

ANYTIME: Always possible.



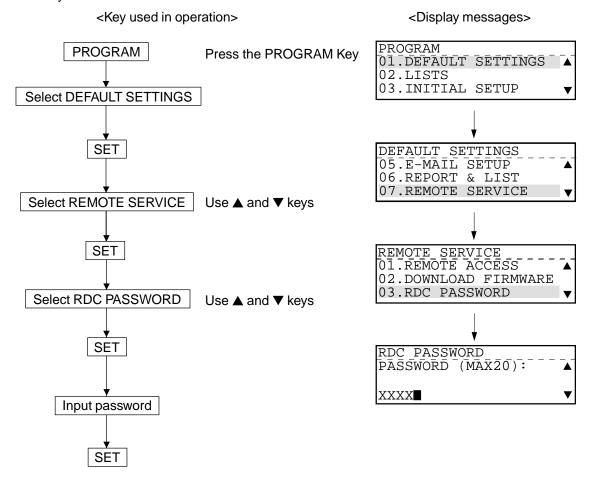
Note: If ANYTIME is selected when there are reserved fax jobs, firmware downloading will delete all the fax jobs.

After the copier is rebooted by turning it off then on, after downloading the firmware, the copier will be controlled with downloaded data.

(3) RDC Password

To access the copier through RDC, the security password (Max. 20 digits) is required for protecting the setting data of the copier. Only when the password coincides with the password that was registered with the RDC Center, during an access from the RDC Center to the copier according to the RDC protocol, operations through RDC are enabled.

When the passwords do not coincide, the communication is cut off. This password is also called TSI Security Password.



Note: When an access through RDC is attempted without setting the password on the copier, the communication will be cut off. The keys used for setting the password are numeric keys from 0 to 9 and the SPACE key.

1.3.2 Automatic Supplies Order

The function automatically notifies the supplies vendor of the replacement time for the toner pack and the process unit.

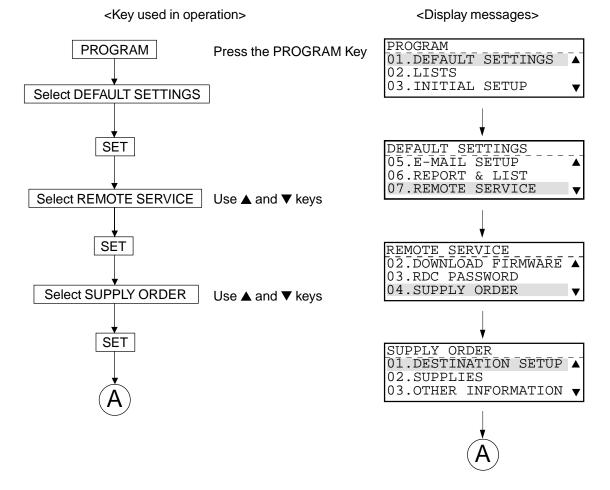
By entering the following items, you can automatically place an order of the registered quantity of the toner pack or the process unit, after the registered quantity is used up.

Items to be set:

- a. Vendor to which the supplies list is sent (telephone number or email address)
- b. Quantity of toner pack/process unit to be ordered (1 to 99)
- c. Part number for toner pack/process unit (Max. 20 digits)
- d. Customer number (Max. 20 digits)
- e. Contact name (Max. 40 digits)
- f. Telephone person (Max. 32 digits)
- g. Customer to whom the supplies are sent (Max. 40 digits)
- h. Address to which the supplies are sent (Max. 64 digits)

The procedure for programming each items is described below.

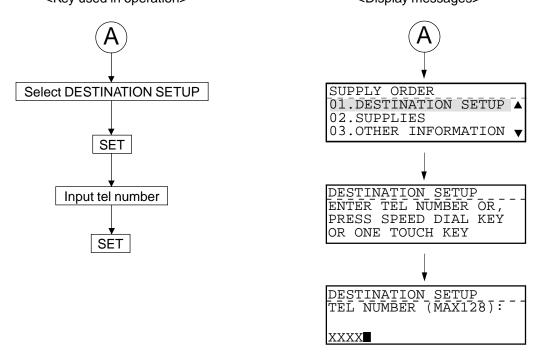
On this page, the procedure that is common to all the programming procedures (up to A) is described. On the subsequent pages, the procedures for programming each item, after A. are described.



1) Vendor to which the supplies list is sent (telephone number or email address): DESTINATION SETUP

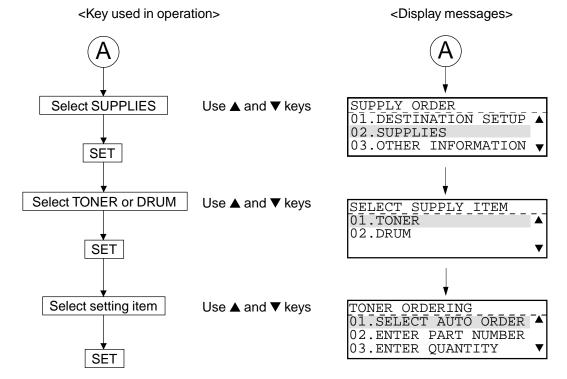
<Key used in operation>

<Display messages>



- 2) Quantity of toner pack/process unit to be ordered (1 to 99): ENTER QUANTITY
- 3) Part number for toner pack/process unit (Max. 20 digits): ENTER PART NUMBER

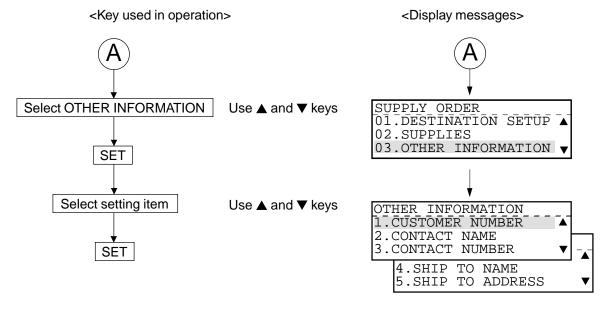
Enter the part number and the order quantity for the toner pack and the process unit individually. The procedure and the screen display are the same after selecting 01.TONER/02.DRUM.



- When 01.SELECT AUTO ORDER is selected, the screen prompts you to select 1.YES or 2.NO.
 If you do not select 1.YES, the automatic supplies order is not enabled.
- 02.ENTER PART NUMBER is selected to enter the part number for the supplies.
- 03.ENTER QUANTITY is selected to enter the order quantity of the supplies.

- 4) Customer number (Max. 20 digits): CUSTOMER NUMBER
- 5) Contact person (Max. 40 digits): CONTACT NAME
- 6) Telephone number (Max. 32 digits): CONTACT TEL NUMBER
- 7) Customer to whom the supplies are sent (Max. 40 digits): SHIP TO NAME
- 8) Address to which the supplies are sent (Max. 64 digits): SHIP TO ADDRESS

Setups of 4) to 8) are performed after selecting 03: OTHER INFORMATION.



2. TROUBLESHOOTING

2.1 Diagnosis Over Telephone

Most problems end user inquiries are a result of the following. Therefore, first ask the nature of the trouble (in detail) to seek the cause. These questions can lead to a speedy resolution of the trouble without the need for a service technician.

• Simple misoperation

A trouble caused by a simple misoperation can be solved by the user alone with an appropriate instruction through the telephone.

· A failure with the telephone line

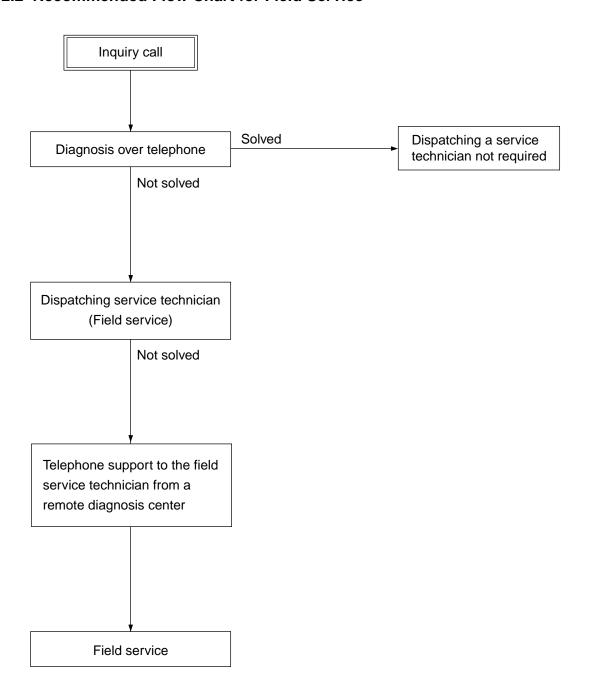
The machine's condition can be checked by the user's operating sending/receiving documents to/from another facsimile unit.

A failure with the other party's machine

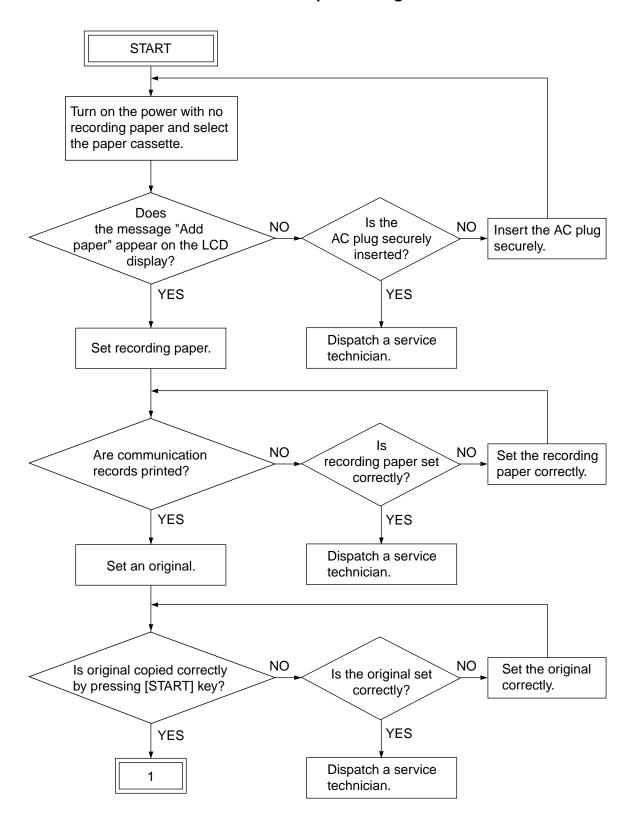
The other party's machine's condition can be checked by the user's operating sending/receiving documents from/to the user's machine.

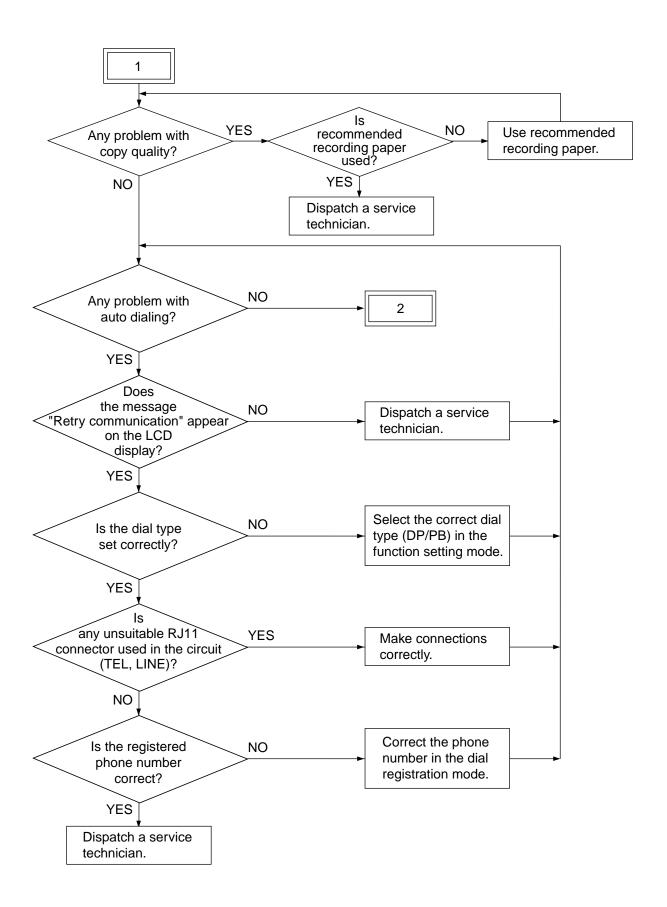
Also, by verifying the error message in the LCD display or the error code on the Journal with the user, the nature of the trouble can be confirmed. This information is important in finding the cause of trouble. Whenever it can be obtained from the user, respond on the telephone by tracing the "2.4 Recommended Flow Chart for Telephone Diagnosis." This will help the service technician to be prepared for the necessary service requirements.

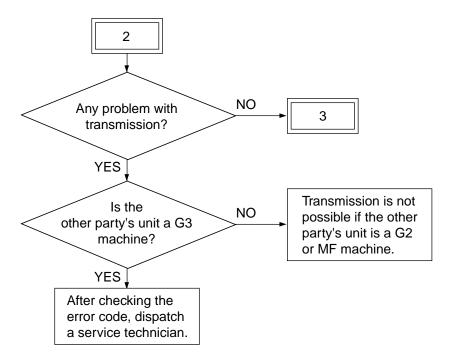
2.2 Recommended Flow Chart for Field Service

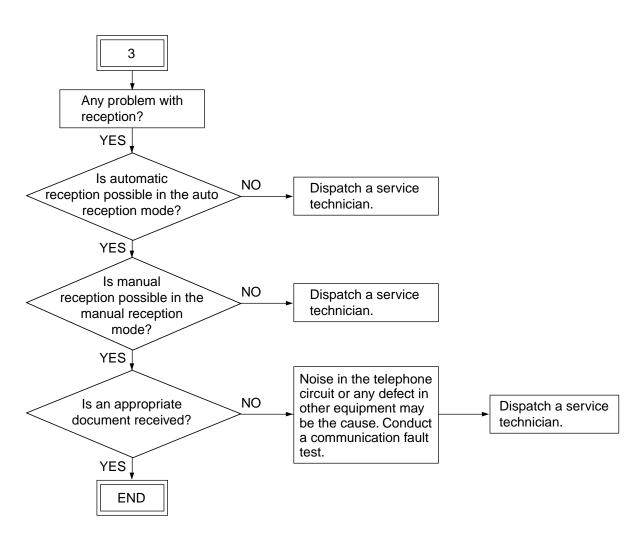


2.3 Recommended Flow Chart for Telephone Diagnosis









2.4 Fault Analysis Flow

2.4.1 Self-diagnostic function

The service technician can clearly grasp the contents of faults by the following means:

- 1) Indication on the LCD display
- 2) Error code indication in the communication management record

2.4.2 Before starting diagnosis

Before starting diagnosis, the service technician should set recording paper and produces a dial list and system setting list. Check that no received document data is stored in memory.

Before starting diagnosis, turn off the power and check the following items:

- 1) Is the power cord plug inserted correctly?
- 2) Are all connectors connected securely?

Notes : When replacing parts, confirm that the amount of memory left is 100% and that there is no memory reception document. Then, turn off the power switch and pull out the power cord plug to start work.

Do not touch the terminal part of any connector, otherwise, a poor connection may result.

2.5 Fault Analysis

2.5.1 Power-ON is not possible

- 1. Check if the power-cord plug is plugged into an appropriate outlet (of the correct voltage).
- 2. Check if the rated voltages are being output from the LVPS. When the measured voltage is not the rated value, replace the LVPS.
- 3. Check if each connector between the operation panel PCB (CN60) and the main PCB (CN9) is disconnected.
- 4. Check if each connector between the main PCB (CN15) and the relay PCB (CN21) is disconnected.
- 5. Check if each connector between the relay PCB (CN60) and the LVPS (CN6) is disconnected.
- 6. Check if each connector pin is removed or the harness is broken.
- 7. Check if any conductor pattern on the LVPS, relay and main PCB is open- or short-circuited.
- 8. Replace the operation panel PCB.
- 9. Replace the relay PCB.
- 10. Replace the main PCB.

2.5.2 Document feed error for ADF/RADF

Check the error code and refer to the troubleshooting of service handbook for copier.

2.5.3 Recording paper feed error

Check the error code and refer to the troubleshooting of service handbook for copier.

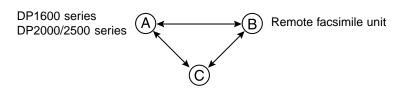
2.5.4 Poor print quality

Check the image and refer to the troubleshooting of service handbook for copier.

2.5.5 Communication error

Communication errors may occur when the condition of a particular phone circuit happens to be bad at the time of attempting the communication job. Therefore, do the communication over again. If communication errors occur too many times, prepare another (known good) facsimile unit and check the communication condition among the three facsimile units, thus analyzing the troubles.

A communication error occurs between A and B.



Known good facsimile

- 1. If normal communications are possible between A and C, and the communication trouble occurs B and C, it can be assumed that B facsimile is malfunctioning.
- 2. If normal communications are possible between B and C, and the communication trouble occurs A and C, it can be assumed that A facsimile is malfunctioning. Therefore, adjust the transmission attenuator value (FUNC4 & 28) and the cable equalizer value (FUNC5).
- 3. If normal communications are possible between A and C and between B and C, it can be assumed that there is a problem in the line between A and B. Ask the applicable organization (telephone company, etc.) to check the telephone line.

3. REQUESTED LIST WHEN FIELD PROBLEMS OCCUR

3.1 Requested Lists

The following lists are requested when a fax-related problem occurs.

They are arranged in the order of priority with the most important at the top.

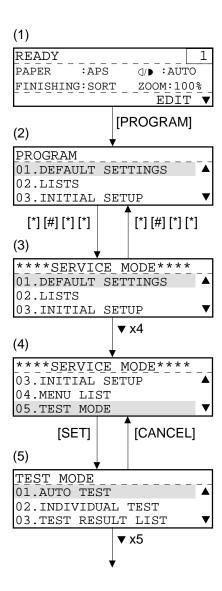
Be sure to get them any time, if not immediately after, a problem has occurred.

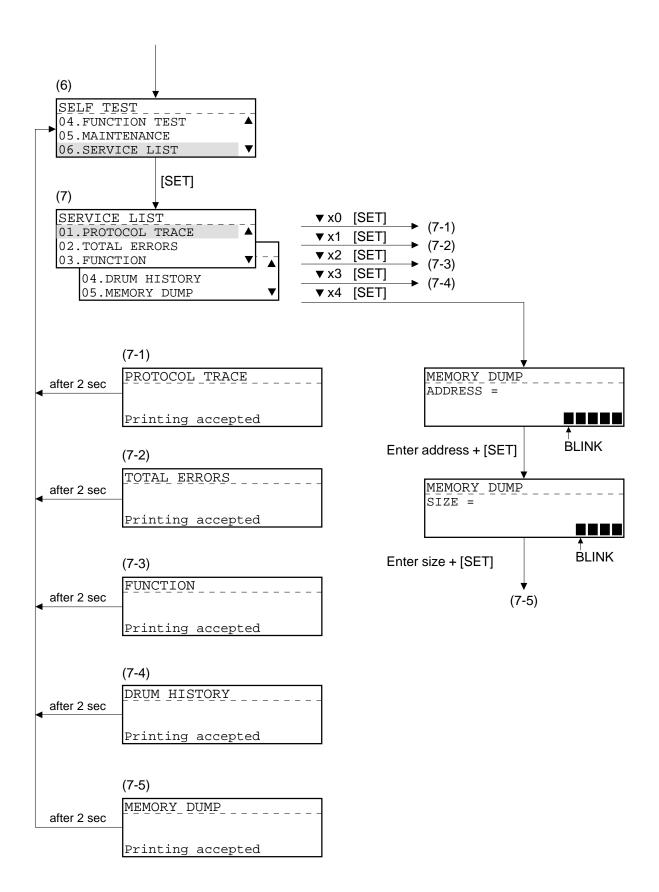
No. Item	List type
1	Protocol Trace List
2	Error Count List
3	Function List for Maintenance
4	Memory Dump List

^{*} For the listing procedure, refer to the next page.

Note: Input the address and the size using the digital keys as bellow.

Input	Digital Keys
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
Α	*0
В	*1
С	*2
D	*3
E	*4
F	*5





[Precautions for acquiring the lists]

When a problem has occurred, first pull out the telephone line to disable communication. Since the protocol trace is listed only for one session of communication immediately before, if the telephone line is not pulled out, a different communication may come in to overwrite the list before it is acquired. Lists (1) and (2) should be obtained without turning off the power switch of the machine, otherwise, the Information will be erased.

(1) Protocol Trace List

Fax protocols for one session of communication when the problem has occurred is acquired.

PR0	TOCOL 1	ΓRACE L I	ST		XXXXXXXXXX XXXXXXXXXX	XXXXXXXXX XXXXX
			PAGE TIME TEL NUMBER E-MAIL NAME	: 001 : NOV-15-00 04:0 : 123456789012345 : ABCDEFGHIJKLMNO : ABCDEFGHIJKLMNO	67890 PQRSTUVWXYZ	
	CEND /DOV	FOE DATA	FIF DATA		ASCII	
TIME	SEND/RCV	FCF DATA	THE BATTA		ASUTT	
TIME 07:20	R	NSF	0000900090940C0C0C0C8C4 FFFFFFFFFFFFFFFFFFF80I		L , I	D
			0000900090940C0C0C0C8C4	28041800C	L , I	D 29

(2) Memory Dump List

You can check the contents of the memory at the address you have specified.

MEMOR	Y DUMP LIST			XXXXXXXXXX XXXXX
		PAGE TIME TEL NUMBE E-MAIL NAME	: ABCDEFGHIJKLM	
ADDRESS	HEX	DATA	ASCII	
ADDRESS 000D00	HEX 319464BE75DB3FB3	DATA 2598EDDC2465B25D	ASCII 1 u ? % \$e]	
000D00	319464BE75DB3FB3	2598EDDC2465B25D	1 u ? % \$e]	
000D00 000D10	319464BE75DB3FB3 A82AB741A19C80C7	2598EDDC2465B25D BF8B254964494884	1 u ? % \$e] * A %IdIH	

(3) Errors Count List

A management aggregate list of fax communication errors is acquired. It allows you to check if a particular error is recurring.

ERROR COUN	IT LIST		XXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXX
		PAGE : 001	
		TIME : NOV-15-00	04:09PM
		TEL NUMBER : 1234567890	1234567890
		E-MAIL : ABCDEFGHIJ	KLMNOPQRSTUVWXYZ1234567890123
		NAME : ABCDEFGHIJ	KLMNOPQRSTUVWXYZABCDEFGHIJKLM
		TO THE STATE OF TH	REMITOR GROTOVIIXTZABOBEI GITTOREM
TRANSMISSION	STATUS	HISTORY	CURRENT COUNTER
TRANSMISSION			
TRANSMISSION		HISTORY	CURRENT COUNTER
TRANSMISSION	2000–NO	HISTORY N-15 10:57 - 2001-MAR-24 20:13	CURRENT COUNTER 2000-NOV-21 09:22 -
TRANSMISSION	2000–NO	HISTORY N-15 10:57 - 2001-MAR-24 20:13 0918 / 1000	CURRENT COUNTER 2000-NOV-21 09:22 - 0102 / 0119

(4) Function List for Maintenance

This report lists the set statuses of various functions that can be programmed by service personnel.

FUNC	TIONLI	ST FOR MAI	NTENANCE			XXXXXXXXXX XXXXX	
			PAGE TIME	: 001 : NOV-1	5-00	04:09PM	
COUNTRY		0	001				
FUNC	0	10101101	AD	HOME	0	00000010 02	
FUNC	1	10100011	A3	HOME	1	00000000 00	
FUNC	2	10000110	86	HOME	2	00000001 01	
FUNC	3	01011000	58	UAD	0	00101110 2E	
FUNC	4	10101010	AA	UAD	1	01010001 51	
FUNC	5	01011011	5B	UAD	2	00101110 2E	
				UAD	3	01101001 69	
				LIAD	4	000010110	

(5) Transmission Journal

A transmission record for 150 communication sessions is listed. Check it for communication NG occurrence statuses, based on the communication time, error codes, etc. Also, check if communication fails only with a particular party.

TF	RANSM	11 SS I	ON JO	URNAL								
						PAGE TIME TEL NUMBER E-MAIL NAME SCAN COUNT PRINT COUNT DRUM COUNT	: ABCDEF	789012 GHIJKL GHIJKL 7 (00		/WXYZ123456 /WXYZABCDEF(
NBR	FILENBR	DATE	TIME	DURATION	PGS	Т0		DEPT	ACCOUNT	MODE	STAT	US
001 002	001 010		12:00AM 11:10AM	00/41 03/47	001 006	1234567890123 123456	34567890	D 01	9999	G3 330 P EC 503 P	OK OK	30
003 1004	011	NOV-18	01:14PM	00/24	000 -012	0559891024 <>03123456 1020		D 08 D 20	2000	EX 512 R HS 111 B EC 602 SB	NG OK NG	D0

(6) Reception Journal

A reception record for 150 communication sessions is listed. Check it for communication NG occurrence statuses, based on the communication time, error codes, etc. Also, check if communication fails only with a particular party.

RI	ECEP1	TION JOURN	IAL						
					E-MAIL : ABCDEF NAME : ABCDEF SCAN COUNT : 6	6789012 FGHIJKL FGHIJKL 67 (00 97 (00		/WXYZ123456 /WXYZABCDEF(
NBR	FILENBR	DATE TIME	DURATION	PGS	FROM	DEPT	ACCOUNT	MODE	STATUS
001	001	NOV-25 12:00AM	00/41	001	12345678901234567890	D 01	9999	G3 330 P	OK 30
002	010	NOV-26 11:10AM	03/47	006	s-pulse@football.co.			ML 5 3	OK
003	011	NOV-28 01:14PM	00/24	000	123123456123			EX 512 R	NG DO
004				-010	_05559se		2000	HS 111 B	OK
					789012			EC 602 SB	NGoo

(7) Function List

This list prints out the set statuses of various functions which have been programmed by the user.

XXXXXXXXX XXXXXXXXX XXXXXXXXXX XXXXX **FUNCTION LIST** PAGE : 001 TIME : NOV-15-00 04:09PM TEL NUMBER : 12345678901234567890 : ABCDEFGHIJKLMNOPQRSTUVWXYZ12345678901234 E-MAIL NAME : ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMN KEYBOARD TYPE : QWERTY MEMORY RX : ON MEMORY SIZE : 96MB RX REDUCTION : ON DISCARD : ON MACHINE DEFAULTS PRIVILEGED RX : ON CASSETTE SIZE RTI : ON

Problem (State as in detail as possible)	
1 Tobiem (State as in actain as possible)	

3.2 Other Necessary Information

When analyzing a problem (particularly a communication problem), the following information should also be reported.

(1)	Che	theck off the appropriate statement to indicate whether the machine resumes or not.										
	\circ R	esumes when the power i	s tu	rned off and then on.								
	\circ R	Resumes when the PCB is replaced.										
	0 F	○ Fails to resume.										
(2)	Rep	eatability										
	\circ F	Frequent occurrence (Occurs everyday or regularly)										
	\circ s	ometimes (About once a	weel	<)								
	O C	nce only										
(3)		ase of a communication performs the speaker, and cl				communication with a						
	Not	Note: When ending the examination, be sure to turn off the line monitor.										
	\circ T	The line has noise.										
	_	ightarrow Request the telephone company for examination to see if there is any problem with the state of										
		the line.										
	\circ A	A busy tone is heard from the contacted station in the middle of communication.										
	_											
		check the model name of the contacted station.										
	\circ C	Other (Description of conditions:)										
(4)	Stat	e of the machine at the tin	ne w	hen the problem has	occurred							
	1	Paper loaded state										
		1st cassette (size =)	○No paper loaded	○Paper loaded							
		2nd cassette (size =)	○Not mounted	○No paper loaded	○Paper loaded						
		3rd cassette (size =)	○Not mounted	○No paper loaded	○ Paper loaded						
	2	State of ADF or RADF (F	ill in	for transmission)								
		○The document has bee	n eje	ected. OAbno	rmal condition such as	document jam						
		Other (Be specific:)										

3	Communication conditions
	○ Transmission problem
	○ Reception problem
	○ECM mode
	○G3 model
	OCommunication fails with a specific contacted station only (Model name of contacted station:)
	In case communication fails with a specific contacted station only, it is also suspected that the contacted station is at fault or in a busy state (no response) with the memory full without paper. Check the state of the contacted station.
	If the contacted station is found to be without any problems, there is a probability of a communication problem with a specific model. Check the model name.
4	Document size:
	Reception size
	(For NAD model)
	OLD OLG OLT OST OCOM OA4
	(For MJD, AUD, ASD, SAD, TWD, CND model)
	OA3 OA4 OA5 OB4 OB5 OFOLIO OLT Page lution OSTD (8 x 2.95) OFine (8 x 7.7) OS Fine (46 x 45.4)
	Resolution = OSTD (8 x 3.85) OFine (8 x 7.7) OS-Fine (16 x 15.4)
	Total number of communication sheets = sheets, occurrence of NG with the sheet
(5)	Line connection state
	O Directly connected to the public phone line.
	O Connected to the private branch exchange.
	→ Another terminal is connected in addition to this machine.
	→ Check if CI is the standard pattern.
	(Reception may not be started depending on the pattern of CI.)
	O Line switching unit
	→ Check if the line setting (DP, MF) of the line switching unit matches the line setting of this
	machine.

Connection state — — — — — — — — — — — — — — — — — — —
(Illustrate the number of lead-in public phone lines, exchange through which the line is connected,
jointly set-up telephones, modem, etc.)

4. PRECAUTIONS TO USE DURING FAX SET-UP AND REPLACEMENT

4.1 When setting up or replacing the Fax/NCU PBA

- 1) After having set up the copier according to the unpacking instructions of FAX-Kit, the equipment will start up.
- 2) After confirming that the remaining memory M: 100% on the FAX screen, and that the 'COMMUNI-CATING' or 'SENDING' LCD Display is off or the Fax communication lamp is not blinking, turn off the power.

The Data of substitute memory reception needs to be printed. If this data can not to be printed, it needs to be printed by another Fax to use the PIX Memory Transfer function. Send forcibly the contents to be stored in the PIX memory or Re-send the data again after replacing the Fax/NCU PBA.

- 3) Replace the Fax/NCU PBA on Main PBA.
- 4) Perform clearing the Memory area by [PIX MEMORY].
- 5) For confirming the normal operation start, perform the DRAM test, CODEC test, MODEM test.

4.1.1 PIX Memory Transfer

[Program] [* # * *] [05] [05] [05]

This function is used to send the contents stored in the PIX memory to the designated remote address when some printer problem disables printing of the received document.

Refer the section in 1.2.4 MAINTENANCE for this procedure.

4.1.2 PIX Memory Clear

[Program] [* # * *] [05] [05] [01]

This function is used to initialize data in memory. This procedure must be performed when the Fax/NCU PBA is replaced or installed. Refer the section in 1.2.4 MAINTENANCE for this procedure.

4.1.3 DRAM test, CODEC test, MODEM test [1] [3] [Power ON]

These tests can be conducted in the function test mode. Refer the section in 1.2.3 Function test for this procedure.