TOSHIBA

SERVICE HANDBOOK GD 1080/1090 FACSIMILE (FOR DP4500/3500)

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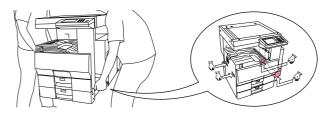
GENERAL PRECAUTIONS REGARDING THE INSTALLATION AND SERVICE FOR DP4500/3500 AND GD1080/1090

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

1. Transportation/Installation

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

The copier is quite heavy and weighs approximately 73kg (161lb), therefore pay full attention when handling it.



- Be sure to use a dedicated outlet with AC 115V 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.

2. 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, high-voltage transformer, IH
 control circuit, exposure lamp control inverter, inverter for the LCD backlight and power supply
 unit. Especially, the board of these components should not be touched since the electirc charge
 may remain in the condensers, etc. on them even after the power is turned OFF.
- Be sure not to touch rotating/operating sections such as gears, belts, pulleys, fan, etc.
- Be careful when removing the covers since there might be the parts with very sharp edges underneath.
- 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 the 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.

3. 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.

4. 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.

5. Disposition of Consumable Parts/Packing Materials

- Regarding the recovery and disposal of the copier, supplies, consumable parts and packing materials, it is recommended to follow the relevant local regulations or rules.
- 6. 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, star washers in the wrong places.
- 7. Basically, the machine should not be operated with any parts removed or disassembled.

8. 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 wristband, pull out the power cord plug of the copier and make sure that there are 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. ERROR CODES

2. SELF-DIAGNOSIS MODE

3. TROUBLESHOOTING

4. PRECAUTIONS FOR INSTALLATION OF FAX UNIT

5. UPDATING THE FIRMWARE

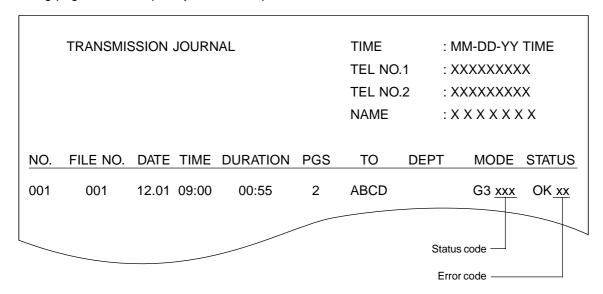
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1. ERROR CODES

1.1 Transmission/Reception Journal and Error Code List

The transmission journal is shown below. The error code list and status code list are available in the following pages. The reception journal is output in the same form.



[A] Error code list

If an error has occurred during communication, an error code is indicated below "STATUS" on the transmission/reception journal.

Take the appropriate action referring to the following list.

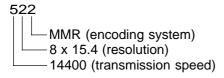
Error code	Content	Situation and corrective action
00	Normal	
11	Paper jam	Remove the jamming paper.
12	Original jam	Remove the jamming document and retransmit it.
13	Door is open	Close the doors securely and retransmit the document.
20	Power failure	A power failure occurred during transmission or reception, and the transmis-
20	l ower landre	sion/reception data were lost. Attempt the transmission/reception again.
30	(Reset)	Communication was stopped by the FC key.
33	Polling error	Polling was not performed because the polling document was not found. Check
	oming error	the polling document on the other side and attempt the polling again.
42	Memory full	The memory became full during reception. (The pages normally received are
T_	Wellioty fall	printed out.) Check the remaining memory space and attempt the reception again.
50	Line is busy	Transmission is not made because the line is busy. Attempt the transmission
30	Line is busy	again. As the number of the redialings are increased, the possibility for success-
		ful transmission is increased.
53	Coourity miamatah	
33	Security mismatch	Check your security code and system password of the other side as well as your
	in relay or mail box	own.
D0	transmission	NOT/DIO
B0	Initial signal not	NSF/DIS cannot be detected. Check the receiver and attempt the transmission
	detected	again.
B1	Terminal constants	DIS/NSF that cannot be handled by the sender was received. The receiver re-
	not compatible	ceived NSS/DCS other than those declared by DIS/NSF. Check the transmis-
		sion/reception functions, and attempt the communication again.
B2	Reception of DCN (Phase B)	DCN was received in the phase B.
B3	DCS/DTC not detected	DCS/DTC cannot be detected.
B4	Training error	The sender performed fall-back but the transmission was not made. After the
	naming onto	reception of FTT, the receiver received a time-out or DCN. Adjust the transmitter
		attenuator, link equalizer, etc. and retry the communication.
B5	CFR not detected	A training signal was sent out but CFR cannot be detected. Adjust the transmitter
		attenuator, link equalizer, etc. and retry the transmission.
C0	Image signal	A carrier was not detected on the receiving side. Adjust the transmitter attenuator,
	carrier not detected	link equalizer, etc. and retry the transmission.
C1	High speed signal	High-speed signals were not detected on the receiving side. Adjust the transmit-
	not detected	ter attenuator, link equalizer, etc. and retry the transmission.
C2	Image signal carrier	Carrier disconnection was detected after the image signal was detected.
	disconnected	
C3	1st EOL not detected	1st EOL was not detected after the high-speed signal was detected.
C4	EOL not detected	EOL cannot be detected on the receiving side. Or decoding is not possible with MMR.
D0	Post message not	A post message cannot be detected. Retry the communication. MCF, RTP, RTN,
	detected	PIN and PIP cannot be detected on the sending side. MPS, EOM and EOP can-
		not be detected on the receiving side.
D1	Reception of DCN	DCN was received.
D2	Poor image quality	Quality of the received image is poor. Retry the transmission.
E0	Image memory error	Hardware is defective.
	mage memory end	That divide to delective.

Error code	Content	Situation and corrective action
E8	HDD error	Hardware is defective.
F0	Software trouble	Software is defective.
F1	Hardware noise	Hardware is defective.

[B] Status code list

Mode	Transmission speed	Resolution	Encoding system
0	2400	8 x 3.85	МН
1	4800	8 x 7.7	MR
2	7200	8 x 15.4	MMR
3	9600		JBIG
4	12000	16 x 15.4	
5	14400		
6	16800		
7	19200		
8	21600	300 x 300	
9	24000		
Α	26400		
В	28800		
С	31200		
D	33600		
E			
F			

[Example of the indication of a status code]



1.2 Error Messages

Error messages are not displayed for the background jobs (memory transmission and memory reception). See the reception/transmission report for the details of the errors.

If an original jam during the direct transmission or recording paper jam during printing occurred, error messages are displayed like when original jam occurred in the copier.

Error messages and corrective actions

Error	Symptom	Message	Remarks
Memory full	Communication was interrupted be-	MEMORY	Message displayed only
	cause the memory became full.	OVERFLOW	during the memory input.
			It is not displayed during
			the memory reception
Line is busy	Redialing was attempted for the		Job information is stored
	specified number of times but the line		in the memory when the
	is still busy.		final retry is finished.
Initial signal not	DIS is not detected	COMMUNICATION	
detected		ERROR	
Terminal constants not	Received DIS unable to be handled		
compatible	Received DCS which is beyond the		
	capability of the receiver		
Training error	Fall-back is not made successfully.	COMMUNICATION	
	Became time-out after FTT was	ERROR	
	sent out		
CFR not detected	CFR (FTT) is not detected	COMMUNICATION	
		ERROR	
Image signal carrier	Image signal carrier cannot be de-		
not detected	tected		
Image signal not	High-speed signal cannot be re-		
detected	ceived by the receiver		
EOL time-out	EOL timer exceeded by 13 seconds		
Post message not	Post message is not detected	COMMUNICATION	
detected		ERROR	
Poor image quality	TX: Received RTN/PIN/ERR	COMMUNICATION	
	RX: Transmitted RTN/PIN/ERR	ERROR	
Image memory error	Memory is abnormal during the		
	memory communication		
Software overdrive	WDT communication terminated due	COMMUNICATION	
	to software overdrive	ERROR	
Hardware noise	Communication terminated due to	COMMUNICATION	
	software overdrive caused by hard-	ERROR	
	ware noise		

2. SELF-DIAGNOSIS MODE

There are two types of the self-diagnosis mode for the fax operation.

- Mode 03, 05 and 08: Some items are added to the modes 03, 05 and 08 of the PPC self-diagnosis function when the optional fax unit is installed.
- Mode 13 and 1*: These two modes are newly added to the machine when the fax unit is installed. Started up by turning ON the power while pressing the specified keys are being pressed.

The followings are the modes which are added to (or extend) the PPC self-diagnosis function.

Mode	Keys to be pressed	Function	Display
IVIOGE	to enter each mode	1 diletion	Display
Test mode	[0]+[3]+[POWER]	Output check (modem test, dialing test, CML	100% C
		test)	test mode
Adjustment mode	[0]+[5]+[POWER]	Adjustment of the various items	100% A
			test mode
Setting mode	[0]+[8]+[POWER]	Setting the destination	100% D
			test mode
Fax function mode	[1]+[3]+[POWER]	Setting functions of the various items	100% F
			test mode
Fax clearing mode	[1]+[*]+[POWER]	Initialization of the various memory areas (user	100% CL
		registration area, system setting area, image	test mode
		data area)	
Trace list output	Digital keys on the list output	Outputs the protocol trace list, dump list and	Fax screen
mode	screen (Do not enter the self-	function setting list	
	diagnostic mode)		

Turn ON the main switch (power) while pressing two digital keys (ex: "0" and "5") simultaneously to enter each mode.

Note: To finish the self-diagnosis mode, turn the power OFF and then back ON.

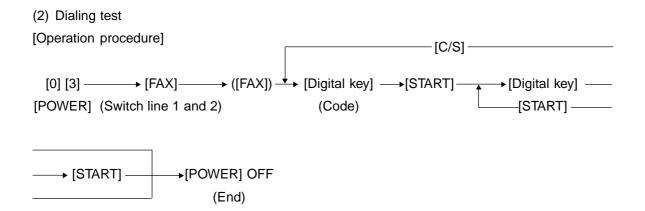
<u>Do not cancel the mode using the keys "0" and "9".</u>

(A malfunction may be caused because the start-up process is not performed properly.)

2.1 Test Mode (03)

The modem test output, dialing test output and CML test output are performed in the test mode (03).

(1) Modem test/CML test [Operation procedure] [O] [3] → [FAX] → ([FAX]) → [Digital key] → [START] → Operation started → [POWER] OFF [POWER] (Switch line 1 and 2) (Code) (End)



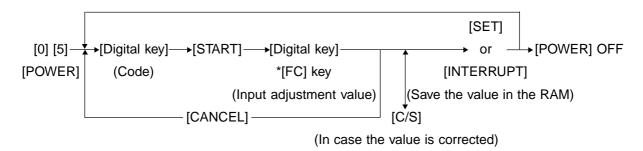
Test code list

Code	Element	Test
301	Fax	Modem test 2100 Hz
302	Fax	Modem test 14.4 kbps (V.17)
303	Fax	Modem test 9.6 kbps (V.29)
304	Fax	Modem test 4.8 kbps (V.27)
305	Fax	Modem test 300 BPS
306	Fax	Modem test 1850 Hz
307	Fax	Modem test 1650 Hz
308	Fax	Modem test 1100 Hz
309	Fax	Modem test 462 Hz
310	Fax	Modem test 1300 Hz
311	Fax	Modem test 33.6 kbps (V.34)
312	Fax	Modem test 28.8 kbps (V.34)
313	Fax	Modem test 24.0 kbps (V.34)
314	Fax	Modem test 16.8 kbps (V.34)
		Dialing test 10PPS (Tested with the digital keys)
315	Fax	(The dial number corresponding to the key which was pressed is kept outputting
		on the circuit. The pressed key is displayed on the control panel.)
		Dialing test PB (Tested with the digital keys)
317	Fax	(The dial number corresponding to the key which was pressed is kept outputting
		on the circuit. The pressed key is displayed on the control panel.)
318	Fax	Modem test 12.0 kbps (V.17)
319	Fax	Modem test 7.2 kbps (V.29)
320	Fax	Modem test 2.4 kbps (V.27ter)
322	Fax	CML test: Turning ON the CML relay

2.2 Adjustment Mode (05)

Parameter setting for the fax image processing is performed in the adjustment mode '05'.

(1) Setting parameters for the fax image processing [Operation procedure]



* "-" can be entered with the [FC] key.

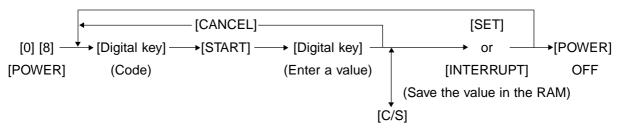
Adjustment codes for the image processing parameters

Code	Element	Adjustment item	Mode	Image quality mode	Default	Accept- able value
700	Density	Adjustment of the threshold value for the digitization	Fax	Text	120	0~255
		Center value				
701	Density	Adjustment of the threshold value for the digitization	Fax	Text	20	0~255
		Lighter step value				
702	Density	Adjustment of the threshold value for the digitization	Fax	Text	20	0~255
		Darker step value				
710	Density	Manual-density fine adjustment	Fax	Photo	128	0~255
		Error diffusion, Center value				
714	Density	Manual-density fine adjustment	Fax	Text/	128	0~255
		Error diffusion, Center value		photo		
715	Density	Manual-density fine adjustment	Fax	Photo	12	0~255
		Error diffusion, Lighter step value				
719	Density	Manual-density fine adjustment	Fax	Text/	20	0~255
		Error diffusion, Lighter step value		photo		
720	Density	Manual-density fine adjustment	Fax	Photo	25	0~255
		Error diffusion, Darker step value				
724	Density	Manual-density fine adjustment	Fax	Text/	20	0~255
		Error diffusion, Darker step value		photo		
725	Density	Auto-density fine adjustment	Fax	Photo	128	0~255
		Error diffusion				
729	Density	Auto-density fine adjustment	Fax	Text/	128	0~255
		Error diffusion		photo		

2.3 Setting Mode (08)

The destination is set in the setting mode (08).

[Operation procedure]



(In case the value is corrected)

Code	Element		Adjustment iter	n	Mode	Image mode	Default	Accept- able value
		Destination						
		1: Asia	2: Australia	3: Hong Kong				
		4: U.S.A	5: Germany	6: Great Britain				
		7: Italy	8: Belgium	9: Holland			AU: 2	
701	Fax	10: Finland	11: Spain	12: Austria	Fax	ALL	UC: 4	
		13: Switzerland	14: Sweden	15: Denmark			EUR: 5	
		16: Norway	17: Portugal	18: France				
		19: Greece	20: Poland	21: Hungary				
		22: Czech Rep.	23: Turkey	24:South Africa				

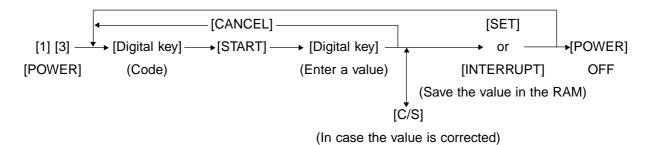
2.4 Function Mode (13)

Various functions are set in the function mode (13).

(1) Procedure to set the functions

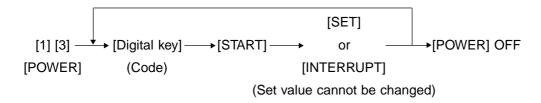
Enter a code using the digital keys and change the set value.

[Operation procedure]



(2) Procedure to confirm the set value

[Operation procedure]



100-299 Adjustment within the dialing standards

Code	Adjustment	Function:	Coul)efau											C!
Code	Adjustment	Function	Setting		_			_	_																R ZA	
100	DTC frequency (PSTN) (Line 1)		0: 300-600Hz 1: 300-650Hz 2: 390-550Hz 3: 400-450Hz 4: 350-480Hz 5: 300-500Hz 6: Reserved 7: Reserved	0	0	0	0	1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 (0 0	100
101	DTC time (PSTN) (Line 1)	be determined as dial tone for the PSTN.	0: 2sec 1: 800ms 2: 400ms 3: 1sec 4: 1.3sec 5: 1.8sec 6: 2.5sec 7:500ms																							101
102	LCC allowed gaps (PSTN) (Line 1)	Set the interruption time for the PSTN to be ignored during LCC.	0: OFF 1: 50ms 2: 100ms 3: 200ms	0	0	0	3	2	2																	102
103	DTC allowed gaps (PSTN) (Line 1)	Set the interruption time for PSTN to be ignored during DTC.	0: OFF 1: 70ms 2: 160ms 3: 240ms	0	0	0	3	2	2	2	2	2	2	2	2 2	2 2	2 2	2 2	2	2	2	2	2	2 (0 0	103
104	DTC/LCC for PSTN (Line 1)		0: BZT(DTC/LCC) 1: LCC 5sec 2: DTC only 3: FRN(DTC/LCC) 4: DTC(JPN) 5: NO DTC&LCC	5	5	5	2	2	2	2	2	2	2	2	2 2	2 2	2 2	2 2	2	2	2	2	2	2 :	5 5	104
105	DTC time out (PSTN) (Line 1)		0: 20sec 1: 10sec 2: 8sec 3: 15sec 4: 3.3sec	0	0	0	1	1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 (0 0	105
106	DTC frequency (PABX) (Line 1)		0: 300-600Hz 1: 300-650Hz 2: 390-550Hz 3: 400-450Hz 4: 350-480Hz 5: 300-500Hz 6: Reserved 7: Reserved	0	0	0	0	1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 (0 0	106
107	DTC time (PABX) (Line 1)		0: 2sec 1: 800ms 2: 400ms 3: 1sec 4: 1.3sec 5: 1.8sec 6: 2.5sec 7: 150ms	0	0	0	6	2	2	2	2	2	2	2	2 2	2 2	2 2	2 2	2	2	2	2	2	2 (0 0	107
108	LCC allowed gaps (PABX) (Line 1)	Set the interruption time for the PABX to be ignored during LCC.	0: OFF 1: 50ms 2: 100ms 3: 200ms	0	0	0	0	3	3	3	3	3	3	3	3 3	3 3	3 3	3	3	3	3	3	3	3 (0 0	108
109	DTC allowed gaps (PABX) (Line 1)	Set the interruption time for the PABX to be ignored during DTC.	0: OFF 1: 70ms 2: 160ms 3: 240ms	0	0	0	0	3	3	3	3	3	3	3	3	3 3	3	3	3	3	3	3	3	3 (0 0	109
110	DTC/LCC for PABX (Line 1)		0: BZT(DTC/LCC) 1: LCC 5sec 2: DTC only 3: FRN(DTC/LCC) 4: DTC(JPN) 5: NO DTC&LCC	5	5	5	2	5	5	5	5	5	5	5	5 !	5 5	5 5	5 5	5	5	5	5	5	5	5 5	110
111	DTC time out (PABX) (Line 1)		0: 20sec 1: 10sec 2: 8sec 3: 15sec 4: 3.3sec	0	0	0	1	1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 (0 0	111
112	BTC frequency (Line 1)	Set the busy tone frequency to be detected for the PSTN and PABX.		0	0	0	1	1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 (0	112
116	Dial T1 timer (Line 1)	Set the time to wait for a response from the receiver after dialing is completed.		0	3	0	3	2	2	2	2	2	2	2	2 2	2 2	2 2	2 2	2	2	2	2	2	2 (0 0	116
117	Dial stop after T1	In case of T1 time-out (no response from the receiver) during the automatic dialing, redialing is not performed and it is determined that the transmission is terminated due to error.	0: OFF 1: ON	0	0	0	1	0	0	0	0	0	0	0	0 (O C	0	0	0	0	0	0	0	0 (0 0	117

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Code	Adjustment	Function	Setting												efau											Code
	-			AS													DK N								ZA	
125	Dial information (Line 1)	Set the definition of the DP dial. Normal: n Shift: n+1 Reverse: 10-n n=Dial No.	0: Normal 1: Shift 2: Reverse	0	0	0	0	0	0	0	0	0	0	0 0	0 0	1	0	2 0	0	0	0	0	0	0	0	125
127	Internal retry	When dialing is interrupted because any of the settings for DTC/LCC is not satisfied during redialing, that redialing is ignored since it is considered as an internal retry.		0	0	0	0	1	1	0	0	0	0	0 1	C	0	1	1 0	0	0	0	0	0	0	0	127
128	Redialing counter	Set the number of redialings.	0: No retry 1: 1 redialing 1: 14: 14 redialings	5	2	4	5	3	4	3	3	5	3	3 1	4	5	4	9 3	5	4	3	3	3	5	5	128
129	Time for a pause (Line 1)	Set the time for a pause when it is inserted between the dial numbers.	0: 0sec 1: 1sec 2: 2sec 3: 4sec	4	2	2	4	2	2	3	2	0	2	2 2	2 0	2	2	2 1	2	4	4	4	4	4	4	129
132	Interdigit pause (Line 1)		0: 900ms 1: 550ms 2: 700ms 3: 800ms	0	0	2	3	0	3	3	2	2	0	1 3	3 3	3 2	2	2 2	0	3	3	0	0	0	0	132
135	Redialing interval (Line 1)	Set the interval between redialings.	0: Default (3 min) 1: 1min 1: 15: 15min	3	1	3	1	0	0	3	2	2	0 :	2 2	2 2	! 1	0	0 1	3	3	3	3	3	3	3	135
137	DP make/break ratio (Line 1)	Set the make/break ratio for DP dialing.	0: 60/40(10PPS) 1: 67/33(10PPS) 2: 63/37(10PPS) 3: 50/50(10PPS) 4: 67/33(20PPS)	1	1	1	0	0	1	0	1	0	0	1 (0 0	0	1	0 1	1	0	1	0	0	1	1	137
138	MF timing (Line 1)		0: 80/80ms 1: 70/70ms 2: 70/150ms 3: 60/60ms 4: 80/100ms 5: 150/50ms 6: 150/240ms	2	0	2	4	4	0	0	1	1	0 :	2 (0 0	1	2	0 0	0	4	0	3	1	2	2	138
139	DTC RX ATT (PSTN) (Line 1)	·	0: -24dBm 1: -27dBm 2: -30dBm 3: -33dBm 4: -36dBm 5: -39dBm 6: -42dBm 7: -45dBm	6	6	6	6	6	6	6	6	6	6	6 6	6	6	6	6 6	6	6	6	6	6	6	6	139
140	DTC RX ATT (PABX) (Line 1)	· ·	0: -24dBm 1: -27dBm 2: -30dBm 3: -33dBm 4: -36dBm 5: -39dBm 6: -42dBm 7: -45dBm	6	6	6	6	6	6	6	6	6	6	6 6	6	6	6	6 6	6	6	6	6	6	6	6	140
141	MF TX-ATT (Line 1)	Set the attenuator value for the MF signal.		3	6	5 5	3	5	5	5	5	5	5	5 5	5 5	5	5	5 5	5	5	5	5	5	3	3	141

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															Defa	ault											
Code	Adjustment	Function	Setting	AS														DK NO									
142	International DTC frequency	dial tone of the first pause to be detected.	00: No detection 01: 300Hz-600Hz 02: 300Hz-650Hz 03: 390Hz-550Hz 04: 400Hz-450Hz 05: 350Hz-480Hz 06: 300Hz-500Hz 07: France Dual Tone (not used)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	142
		dial tone to be detected after dialing the second international dial access code.	10: No detection 11: 300Hz-600Hz 12: 300Hz-650Hz 13: 390Hz-550Hz 14: 400Hz-450Hz 15: 350Hz-480Hz 16: 300Hz-500Hz 17: France Dual Tone (not used)																								
143	International dial access code(Line 1)	Sets the international access code.	Numeric value of 3 digits (Default setting: 4 digits)	1000	1000	100	0 1000	100	1000	1000	1000	1000	1000	1000	1000	1000 1	1000	1000 100	0 100	0 100	100	0 1000	1000	1000	1000	1000	143
149	ATT control (Line 1)	Setting for the receiver attenuator.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	149
150	BTC ON time (Line 1)	Sets time that a busy-tone signal is output to be determined it is ON.		0														0 0									
151	BTC OFF time (Line 1)	Sets time that a busy-tone signal is not output to be determined it is OFF.		0	0	0	0	0	0	0	0	0	0					0 0									
152	MF dial levels	Set the difference between the high output and low output of the MF signal.		2	1	2	2	2	2	2	2	2	2	2	2	2	2	2 2	2	2	2	2	2	2	2	2	152
153	Intermittent DTC function	Setting for intermittent DTC function.	` '	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	153
200	Exchange type (Line 1)	Select the exchange type.	0: PSTN 1: PABX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	200
201	Dial selection (Line 1)	Select the access type for the PABX.	0: Not defined 1: Local/Distant 2: Access Digit	1												1									1		
203	Dialer type (Line 1)	Select the dial type.	0: DP 1: MF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1	203
206	Local/distant dial (Line 1)	Enter an access code designated for the access type selected for the function code 201. Local: 2 digits Distant: 2 digits Access Digit: 3 digits	Numeric value of 3 digits (4 digits for the default setting)	1000																							206
	Exchange type (Line 2)	9 71	0: PSTN 1: PABX	0																							210
211	Dial selection (Line 2)	Select the access type for the PABX.	0: Not defined 1: Local/Distant 2: Access Digit	1					1							1									1		211
213	Dialer type (Line 2)	Select the dial type.	0: DP 1: MF	1	_				_	_					-		_	1 1	_	_	_	_		_			
216	Local/distant dial (Line 2)	Enter an access code designated for the access type selected for the function code 211. Local: 2 digits Distant: 2 digits Access Digit: 3 digits	Numeric value of 3 digits (4 digits for the default setting)	1000	1000	1000	0 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000 1	1000	1000 100	0 1000	0 100	100	0 1000	1000	1000	1000	1000	216

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0-1-	Adhantana	Famatian	O-Min v											Def	ault										T_{ι}	
Code	Adjustment	Function	Setting	AS	_	-				_	_				_	-	DK N	_				_			ZA]	Code
220	DTC frequency (PSTN) (Line 2)		0: 300-600Hz 1: 300-650Hz 2: 390-550Hz 3: 400-450Hz 4: 350-480Hz 5: 300-500Hz 6: Reserved 7: Reserved	0	0	0	0	1	1	1 1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	0 0	0	220
221	DTC time (PSTN) (Line 2)	be determined as dial tone for the	0: 2sec 1: 800ms 2: 400ms 3: 1sec 4: 1.3sec 5: 1.8sec 6: 2.5sec 7: 500ms	0	0	0	3	2	2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2	0 (0	221
222	LCC allowed gaps (PSTN) (Line 2)	Set the interruption time for the PSTN to be ignored during LCC.	0: OFF 1: 50ms 2: 100ms 3: 200ms	0	0	0	3	2	2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2	0 (0	222
223	DTC allowed gaps (PSTN) (Line 2)	Set the interruption time for the PSTN to be ignored during DTC.	0: OFF 1: 70ms 2: 160ms 3: 240ms	0	0	0	3	2	2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2	0 (0	223
224	DTC/LCC for PSTN (Line 2)	Select which is to be used for the	0: BZT(DTC/LCC) 1: LCC 5sec 2: DTC only 3: FRN(LCC/DTC) 4: DTC(JPN&USA) 5: NO DTC&LCC	5	5	5	2	2	2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2	5 5	5	224
225	DTC time out (PSTN) (Line 2)	· ·	0: 20sec 1: 10sec 2: 8sec 3: 15sec 4: 3.3sec	0	0	0	1	1	1	1 1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	0 (0	225
226	DTC frequency (PABX) (Line 2)	Set the dial tone frequency to be detected for the PABX.	0: 300-600Hz 1: 300-650Hz 2: 390-550Hz 3: 400-450Hz 4: 350-480Hz 5: 300-500Hz 6: Reserved 7: Reserved	0	0	0	0	1	1	1 1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	0 (0	226
227	DTC time (PABX) (Line 2)	Set the time for a tone sounds to	0: 2sec 1: 800ms 2: 400ms 3: 1sec 4: 1.3sec 5: 1.8sec 6: 2.5sec 7: 150ms	0	0	0	6	2	2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2	0 (0	227
228	LCC allowed gaps (PABX) (Line 2)	Set the interruption time for the PABX to be ignored during LCC.	0: OFF 1: 50ms 2: 100ms 3: 200ms	0	0	0	0	3	3	3 3	3	3	3	3	3	3	3 3	3	3	3	3	3	3	0 (0	228
229	DTC allowed gaps (PABX) (Line 2)		0: OFF 1: 70ms 2: 160ms 3: 240ms	0	0	0	0	3	3	3 3	3	3	3	3	3	3	3 3	3	3	3	3	3	3	0 (0	229
230	DTC/LCC for PABX (Line 2)	Select which is to be used for the PABX, DTC or LCC.	0: BZT(DTC/LCC) 1: LCC 5sec 2: DTC only 3: FRN(LCC/DTC) 4: DTC(JPN&USA) 5: NO DTC&LCC	5	5	5	5	5	5	5 5	5	5	5	5	5	5	5 5	5 5	5	5	5	5	5	5 5	5	230
231	DTC time out (PABX) (Line 2)		0: 20sec 1: 10sec 2: 8sec 3: 15sec 4: 3.3sec	0	0	0	1	1	1	1 1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	0 (0	231
232	BTC frequency(Line 2)	Set the busy tone frequency to be detected for the PSTN and PABX.	0: Not detected 1: 300-600Hz	0	0	0	1	1	1	1 1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	0 (0	232
236	Dial T1 timer (Line 2)	Set the time to wait for a response from the receiver after dialing is completed.	0: 60sec 1: 35sec 2: 90sec 3: 55sec 4: 115sec	0	3	0	3	2	2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2	0 (0	236
245	Dial information (Line 2)	Set the definition of the DP dial. Normal: n Shift: n+1 Reverse: 10-n n=Dial No.	0: Normal 1: Shift 2: Reverse	0	0	0	0	0	0	0 0	0	0	0	0	0	1	0 2	0	0	0	0	0	0	0 (0	245
247	Internal retry (Line 2)	When dialing is interrupted because any of the settings for DTC/LCC is not satisfied during redialing, that redialing is ignored since it is considered as an internal retry.		0	0	0	0	1	1	0	0	0	0	1	0	0	1 1	0	0	0	0	0	0	0 0	0	247

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C -	Adimeterant	Function	Cotting												fault											2-4-
Code	Adjustment	Function	Setting	AS													DK N								ZA	Code
249	Time for a pause (Line 2)	Set the time for a pause when it is inserted between the dial numbers.		4	2	2	4	2	2	3	2) 2	2 2	2	0	2	2 2	2 1	2	4	4	4	4	4	4	249
262	Interdigit pause (Line 2)	Set the interval between digits for DP dialing.	0: 900ms 1: 550ms 2: 700ms 3: 800ms	0	0	2	3	0	3	3	2	2 () 1	3	3	2	2 2	2 2	0	3	3	0	0	0	0	262
267	DP make/break ratio (Line 2)		0: 60/40(10PPS) 1: 67/33(10PPS) 2: 63/37(10PPS) 3: 50/50(10PPS) 4: 67/33(20PPS)	1													1 (
268	MF timing (Line 2)		0: 80/80ms 1: 70/70ms 2: 70/150ms 3: 60/60ms 4: 80/100ms 5: 150/50ms 6: 150/240ms	2	0	2	4	4	0	0	1	1 () 2	0	0	1	2 (0	0	4	0	3	1	2	2	268
269	DTC RX ATT (PSTN) (Line 2)	Set the reception level when the	0: -24dB 1: -27dB 2: -30dB 3: -33dB 4: -36dB 5: -39dB 6: -42dB 7: -45dB	6	6	6	6	6	6	6	6	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	269
270	DTC RX ATT (PABX) (Line 2)	Set the reception level when the	0: -24dB 1: -27dB 2: -30dB 3: -33dB 4: -36dB 5: -39dB 6: -42dB 7: -45dB	6	6	6	6	6	6	6	6	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	270
271	MF TX-ATT (Line 2)	Set the attenuator value for the MF signal.		3	6	5	3	5	5	5	5	5	5 5	5	5	5	5 5	5 5	5	5	5	5	5	3	3	271
			15: -15dB (Value decreased one by one)																							
272	International DTC frequency (Line 2)	dial tone of the first pause to be detected.	00: No detection 01: 300Hz-600Hz 02: 300Hz-650Hz 03: 390Hz-550Hz 04: 400Hz-450Hz 05: 350Hz-480Hz 06: 300Hz-500Hz 07: France Dual Tone (not used)	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0	0	0	0	0	0	0	0	272
		Select the frequency range for the dial tone to be detected after dialing	10: No detection 11: 300Hz-600Hz 12: 300Hz-650Hz 13: 390Hz-550Hz 14: 400Hz-450Hz 15: 350Hz-480Hz 16: 300Hz-500Hz 17: France Dual Tone (not used)																							
273	International dial access code (Line 2)	Set the international access code.	Numeric value of 3 digits (Default setting: 4 digits)	1000	100	0 1000	0 1000	1000	1000	1000 1	000 10	000 10	00 100	0 1000	1000	1000	1000 10	00 100	0 1000	1000	1000	1000	1000	1000 1	000	273
279	ATT control (Line 2)	Setting for the receiver attenuator.	<u> </u>	0	0	0	10	0	0	0	0) () 0	0	0	0	0 () 0	0	0		0			$\frac{1}{0}$	279
	BTC ON time (Line 2)	Set the time range for the busy tone on-time.		0		_											0 (_							
281	BTC OFF time (Line 2)	Set the time range for the busy tone off-time.	0: 80-650ms 1: 450-550ms 2: 200-650ms 3: 400-600ms 4: 160-600ms 5: 170-700ms 6: 380-630ms 7: 150-470ms	0	0	0	0	0	0	0	0	0 (0 0	0	0	0	0 (0	0	0	0	0	0	0	0	281
282	MF dial level balance (Line 2)	Set the difference between the high output and low output of the MF signal.		2	1	2	2	2	2	2	2	2 2	2 2	2	2	2	2 2	2 2	2	2	2	2	2	2	2	282
283	Intermittent DTC function (Line 2)	Setting for intermittent DTC function.	` '	0	0	0	0	0	0	1	0	0 (0	0	0	0	0 (0	0	0	0	0	0	0	0	283

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300-699 Adjustments for switching function specifications

Code	Adjustment	Function	Setting				- 17							Defa		,							ı		Code
	-																							R ZA	
	RDC function	Set the remote diagnosis configuration function.																						0	
312	CI history hold time (Line 1)	Set the time for the CI history to remain.	0: 5sec 1: 8sec 2: 14sec	1	1	1	2	2	2	2	2 2	2	2	2	2	2	2	2 2	2 2	2	2	2	2 1	1	312
313	CI detection frequency	Set the frequency range for CI de-	0: 12-80Hz 1: 16-55Hz 2: 20-55Hz	0	0	0	0	1	1	1	1 1	1	1	1	1	1	1	1 1	1 1	1	1	1	1 (0	313
	range (Line 1)	tection.	3: 22-55Hz																						
317	Handling of negative	Set whether the RTN received is	0: Abnormal 1: Normal	1	1	1	0	0	0	0 (0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 1	1	317
	answer	handled as abnormal (NG) or nor-																							
		mal when the data are slightly ab-																							
		normal. Abnormal: DOC is transmit-																							
		ted to stop the communication. Nor-																							
		mal: Next page is transmitted nor-																							
		mally.																							
325	TX attenuation value	Set the modem transmission level		10	13	10	10	12	12	12 1	2 12	2 12	12	12	12	12	12	12 1	2 12	2 12	12	12	12 1	0 10	325
	(V.17)(Line 1)	for communication other than V.34.	1: -1dB																						
		The smaller the value, the higher																							
		the transmission level becomes. If																							
		errors occur frequently or training																							
		is not sent, the transmission level																							
		should be changed.									\perp								\perp						
328	Cable equalizer	Set the equalizer value which has		0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0 0	0	0	0	0 0	0	328
	(V.17)(Line 1)	frequency characteristics. For the																							
		long-distance communication, it is																							
		recommended to set a large value.										<u> </u>	1							+.					
331	Echo protection delay	Set if a delay (500ms) is inserted	0: OFF 1: ON (500ms)	1	0	1	1	1	1	1	1 1	1	1	1	1	1	1	1 1	1 1	1	1	1	1 1	1	331
	(high speed) (V.21)	before sending the V.21 signal and																							
		timing is shifted to avoid the line																							
		echo.						_				.	.							+.	1				
335	Modem speed initial value	Set the initial modem speed to be		1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1 1	1 1	1	1	1	1 1	1	335
		-	4: 4800bps 5: 12Kbps (V.17)																						
			8: 9600bps 9: 9600bps (V.17)																						
338	Forcible line monitoring	Select the line to monitor.	12: 7200bps 13: 7200bps (V.17) 0: OFF 1: Line 1 2: Line 2	_	0	0	0	_		0	1 0	_	0		0			0 (1 0	-		0	0 (\ \ \ \ \	338
-	CI-ON determine time	CI ON-satiable time.				0					0 0													0 0	
339	(Line 1)	Or Ore-Satiable time.	0: 175ms 1: 125ms 2: 800ms 3:145ms	0	U	0	۱	0	١ ا	٠ '	ل ∥ د	"	0	"		0	١	۱ اا د	٠ ر		0		0	, 0	339
340	CI-OFF determine time	CI OFF-satiable time.	0: 650ms 1: 350ms 2: 175ms 3:90ms	12	2	2	2	2	2	2	2 2	12	2	2	2	2	2	2 3	2 2	12	2	2	2 2	2 2	340
540	(Line 1)	o. or i oddabio timo.	2. 170110 0.00110			_	-	-	-	_ '	_ _		_	-	[-	-	-	_ _	_ _			-	_ _		0 10
346	Recording width capacity	Select either one of the followings	0: Paper 1: Cassette	0	0	0	0	0	0	0	<u>ე ი</u>	0	0	0	0	0	0	0 0	<u>)</u> n	0	0	0	0 () 0	346
	declaration	to declare the maximum recording				-	-		-								-	Ĭ (- `		• •
		width to the other party when the																							
		specified paper size is not available;																							
		the largest paper in the other cas-																							
		sette or the cassette for the largest																							
		paper.																							
349	Relay station printing	Set if document can be printed on	0: OFF 1: ON	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1 1	1 1	1	1	1	1 1	1	349
1	function	the relay station.																							

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			a											D	efau	lt										<u> </u>
Code	Adjustment	Function	Setting	AS						IT E																Code
350	High speed carrier-OFF	Set the time to determine the car-	0: 1.5sec 1: 6sec (FTZ)	0	0	0	0	1	0	0	0	0 0) () (0	0	0	0	0	0 (o c	0 0	0	0	350
	detection timer	rier signal is stopped completely.													1											
351	Off-hook alarm	Set the volume of the alarm		0	0	0	0	3	3	3	3	3 3	3 3	3 3	3 3	3	3	3	3	3	3 3	3 3	3	0	0	351
		sounded when the handset has																								1
		been left off the cradle even though	7: Level 7 (Max.)																							1
		the communication is finished.													\perp									_		
355	Memory transmission		0: OFF 1:On Error (BZT) 2: ALWAYS	7	7	7	7	6	6	6	6	6 6	6 6	3 6	8 6	6	6	6	6	6	6 6	6 6	6 6	7	7	355
	report	sion report is output or not. Also,																								1
		-	6: Always (W) 7: On Error (W)		_	<u> </u>	<u> </u>		_	_				4	#		+-	_	_	_	_			 		
356		Set whether the multi-address	•	7	7	7	7	6	6	6	6	6 6	6 6	3 6	8 6	6	6	6	6	6	6 6	6 6	6 6	7	7	356
	report		6: Always (with the sent document on)																							1
		not. Also, select the output condi-	7: On error (with the sent document on)																							1
		tion.													#				\rightarrow			4			!	
359	Multi polling report	Set whether the multi-polling trans-	0,1: OFF 2: Always 3: On error	3	3	3	3	2	2	2	2	2 2	2 2	2 2	2 2	2 2	2	2	2	2	2 2	2 2	2 2	3	3	359
		mission report is printed or not.																								1
		Also, select the output condition.													#							4			!	
362	Result report printout for	Set whether the relay multi-address		7	7	7	7	6	6	6	6	6 6	6 6	3 6	8 6	6	6	6	6	6	6 6	6 6	6 6	7	7	362
	relay hub station		6: Always (with the sent document on)																							1
		not. Also, select the output condi-	7: On error (with the sent document on)																							1
		tion.													4											
365	Printing function for relay	Set whether the relay multi-address	0: OFF 1: ON	0	0	0	0	1	1	1	1	1 1	1 1	1 1	1	1	1	1	1	1	1 '	1 1	1	0	0	365
	station (reception report)	reception report is printed or not.																	\rightarrow			4			\perp	
367	F-code acceptance list	Set whether the acceptance list is		0	0	0	0	1	1	1	1	1 1	1 1	1 1	1	1	1	1	1	1	1 '	1 1	1	0	0	367
		printed when the data are sent into	2: Remote OFF, local ON 3: ON																							1
		the confidential box or bulletin																								1
		board or not. Also, select the out-																								1
		put condition.																	\rightarrow					┷	$\perp \!\!\! \perp \!\!\! \perp \!\!\! \perp$	<u> </u>
368	Journal auto-output	Set whether the journal is output	0: OFF 1: ON	1	1	1	1	1	1	1	1	1 1	1 1	1 1	1	1	1	1	1	1	1 '	1 1	1	1	1	368
		automatically or not.													1										!	<u> </u>
370	Communication result on	Select whether the communication	0: Not reported 1: Reported	1	1	1	1	1	1	1	1	1 1	1 1	1 1	1	1	1	1	1	1	1 '	1 1	1	1	1	370
	journal	result (OK/NG) is reported on the																								1
	(OK/NG)	transmission journal or not.													1										!	<u> </u>
371	Communication result on	Select whether the communication	0: Not reported 1: Reported	1	1	1	1	1	1	1	1	1 1	1 1	1 1	1	1	1	1	1	1	1 '	1 1	1	1	1	371
	journal	error code is reported on the trans-																								1
	(error code)	mission journal or not.													1										!	<u></u>
372	CI detection counter	Set the CI counter value for the		1	4	1	2	2	2	2	2	2 2	2 2	2 2	2 2	2 2	2	2	2	2	2 2	2 2	2	1	1	372
	setting for auto-RX	machine to enter the automatic re-	1: Once																							1
	(Line 1)	ception mode.	1																							1
			15: 15times																							1
			(Value increased one by one)												1										!	<u></u>
373	Speaker volume	Set the speaker volume for on-hook	0: Level 0 (Min.)	4	4	4	3	3	3	3	3	3 3	3 3	3 3	3 ∥ 3	3	3	3	3	3	3 3	3 3	3	4	4	373
	(monitor tone)	status or protocol monitor.	1																							1
			7: Level 7 (Max.)				1					\perp		\perp	\perp				\perp			$\perp \!\!\! \perp$		1	$\perp \perp \mid$	<u></u>
375	Discard parameter on	Set the data length to be discarded	· · ·	1	1	1	1	1	1	1	1	1 1	1 1	1 1		1	1	1	1	1	1	1 1	1	1	1	375
	printing	when the received data exceed the	2: 18mm 3: 22mm 4: 34mm																							1
		effective recording length.																							$\perp \!\!\! \perp \!\!\! \perp \!\!\! \perp \!\!\! \perp$	
377	Printing mode	Set if the received document is re-	0: Auto-Reduction 1: No Reduction	0	0	0	0	0	0	0	0	0 0) () (0	0	0	0	0	0 (0 0	0 0	0	0	377
		duced automatically to appropriate																								1
		recording size.																								1

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Cada	Adlinationant	Function	Catting.												ault											
Code	Adjustment	Function	Setting			_	_				_	_				_								TR Z	_	
378	Discard printing	Select if the discard printing is performed.	0: OFF 1: ON	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1 1	37	'8
379	Maximum reduction rate	Set the maximum reduction rate in the vertical direction.	0: 90% 1: 75%	0	1	0	1	1	1	1 1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	0 0	37	'9
382	Reception information on received document	Set if the receiver information is printed on received document.	0: OFF 1: ON	0	0	0	0	0	0	0 (0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	38	2
389	RX mode (PSTN)		0: TEL 1: FAX 2: TEL/FAX 3: Code not used	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1 1	38	3 9
391	ECM function	Set if the ECM communication is performed.	0: OFF 1: ON	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1 1	39	11
394	Recovery transmission retaining time	Set the time for the HDD to retain data when the transmission was terminated due to an error.		6	6	6	6	6	6	6 6	6 6	6	6	6	6	6	6	6 6	6	6	6	6	6	6 6	39	14
430	TX attenuation value (V.17) (Line 2)	This value is to set the modem transmission level for communication other than V.34. The smaller the value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission level should be changed.	1: -1dB ¦ 15: -15dB (Value decreased one by one)	10	13	10	10	12	12	12 1	2 12	2 12	12	12	12	12	12	12 12	12	12	12	12	12	10 10	0 43	O
433	Cable equalizer (V.17) (Line 2)	Set the equalizer value which has frequency characteristics. For the long-distance communication, it is recommended to set a large value.		0	0	0	0	0	0	0 (0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0) 43	3
501	Communication control in case PPR is received four times	Set how the communication is controlled when the 4th PPR is received during the ECM transmission.	1: CTC (communication terminated after	2	2	2	2	2	2	2 2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2 2	2 50	i1
509	Modem speed for over- seas communication (except V.34)	_	0: 9600bps 1: 7200bps 2: 4800bps 3: Undefined	0	0	0	0	0	0	0 (0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	50	9
510	Position of header for transmission information	Select the position where the header is inserted.	2: Inside 3:Outside	2	2	2	2	2	2	2 2	2 2	2	2	2	2	2	2	2 2	2	2	2	2	2	2 2	2 51	0
511	Transmission information at header	Setting for the header insertion.	0: Not inserted 1: Inserted	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1 1	51	1
512	Threshold for error image	After receiving a document with more error lines than this threshold level, the machine transmits the RTN signal to the sender.																							51	
517	Regular Reduction	Set if the regular reduction printing (A3→B4 or A4, B4→A4 or B5) is performed.																							51	
518	Duplex printing	Set if duplex printing for received documents is performed.	0: OFF 1: ON	0	0	0	0	0	0	0 (0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	51	8

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Cada	Adlinationant	Function	Cottin a											Def	ault											
Code	•	Function	Setting	AS													DK N								ZA	Code
519	Paper selection for received fax document	Select which one has priority over the other, A4 series or LT series, to print the received document when these two series are mixed in a cassette.	0: A4 series 1: LT series	0	0	0	1	0	0	0 0	0 0	0 0	0	0	0	0	0	0 0	0 0	0 0	0	0	0	0	0	519
564	Control channel speed (Line 1)	Select the control channel speed for the V.34 communication.	0: 1200bps 1: 2400bps	0	0	0	0	0	0	0 (0 0	0	0	0	0	0	0	0 0) (0	0	0	0	0	0	564
565	Fall-back condition for	Set the number of the PPR recep-	0: Once	5	5	5	5	5	5	5 1	5 5	5	5	5	5	5	5	5 5	. 5	5 5	5	5	5	5	5	565
303	transmitter (No. of PPR reception) (V.34 Line 1)	tion for fall-back condition in the V.34 transmission.			J		5												, 3				3		3	303
566	Fall-back condition for receiver (No. of PPR reception) (V.34 Line 1)	Set the number of the PPR transmission for fall-back condition in V.34 reception.		5	5	5	5	5	5	5 !	5 5	5 5	5	5	5	5	5	5 5	5 5	5 5	5	5	5	5	5	566
567	TX attenuation value (V.34) (Line 1)	Set the modem transmission attenuation level for the V.34 communication. 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.	1: -1dB ¦ 15: -15dB	10	13	10	10	12	12	12 1	2 12	2 12	12	12	12	12	12 1	12 11	2 1:	2 12	2 12	12	12	10	10	567
569	Initial modem speed for V.34 communication	Set the initial modem speed for V.34 communication.	0: V.34 not installed 6: 14.4kbps(V.34) 9: 21.6kbps(V.34) 12: 28.8kbps(V.34) 14: 33.6kbps(V.34)	14	14	14	14	14	14	14 1	4 14	4 14	14	14	14	14	14 1	14 1	4 14	4 14	1 14	14	14	14	14	569
571	SUB/SEP/PWD functions	Setting for SUB/SEP/PWB communication.	. , ,	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1 1	1	1 1	1	1	1	1	1	571
574	Coding capability (communication capability)		0: MH 1: MH/MR 2: MH/MR/MMR 3: MH/MR/MMR/JBIG	3	3	3	3	3	3	3 :	3 3	3	3	3	3	3	3	3 3	3 3	3 3	3	3	3	3	3	574
575	Reception end tone timing	,	0: OFF 1: When printing is completed 2: When reception is completed	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1 1	1	1 1	1	1	1	1	1	575
576	V.34 symbol rate (Line 1)	Set the initial value for the symbol rate for V.34 communication. Maximum modem speed for each setting are as follows. 2400: 21600bps, 2800: 26400bps 3000: 28800bps, 3200: 31200bps 3492: 33600bps	0: 2400 1: 2800 2: 3000 3: 3200	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4 4	4	1 4	4	4	4	4	4	576
577	V.34 fall-back method	Set the number of steps in which	0: 1step 1: 2steps 2: 3steps	0	0	0	0	0	0	0 (0 0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	577
578	(Line 1) Recovery transmission	the modem speed is fall-backed. Set whether the recovery transmis-	0: OFF 1: ON	0	0	0	0	0	0	0 (0 0	0 0	0	0	0	0	0	0 0) (0 0	0	0	0	0	0	578
580	Protocol type	sion is performed or not. Select the type of the T.30 proce-	0: ITU-T 1: DTS	0	0	0	0	0	0	0 (0 0	0	0	0	0	0	0	0 0) (0 0	0	0	0	0	0	580
581	Batch transmission	dure. DTS is only for Germany. Setting for the batch transmission.	0: OFF 1: ON	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1 1	1	1 1	1	1	1	1	1	581
	Alternation output	Setting for the stagger discharge.		_							# -	_	+	1								1			\rightarrow	584

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Set I for execution for motive of the property														D	efau	lt										
Seed to communication communic	Code	Adjustment	Function	Setting	AS	ΑU	HK U	SD	E G	ВП	ВЕ	NL	FI	ES A	ТС	H SI	E Dł	K NO	РТ	FR	GR	PL	нис	Z T	R ZA	Code
Designed Listed Listed Communication end to seed Communication of Communication o	585	Search function for receiver	Set if the search function for the	0: OFF 1: ON	0	0	0 (0 0) (0	0	0	0	0	0 (0	0	0	0	0	0	0	0 0) (, 0	585
886 Methodology of the communication and tone work of the communication and tone work of the communication and tone work of the communication of the communi		name on transmission jour-	receiver name on the transmission																				.			
Solve 1 for solve 1 for solve 1 for solve 2 for 1 for		nal	journal is used.																							
Property	586	Communication end tone	Set the volume of the communica-	0: Level 0 (Min)	4	4	4 4	4 4	. 4	1 4	4	4	4	4	4 4	4	4	4	4	4	4	4	4 4	. 4	. 4	586
Second S		volume	tion end tone.																				.			
2 Report or client PC 2 Set if the communication result is 0.4 Case 0.4 Scales of 1.5 Report 2.1 Hazard 1.5 Re				7: Level 7 (Max)																					\perp	
Set if the communication real bit of Norte-Organization (1.00) 1.00	587	Communication end tone	_	0: OFF 1: 0.5sec 2: 1.0sec 3: 1.5sec	2	2	2 2	2 2	2 2	2 2	2	2	2	2	2 2	2 2	2 2	2	2	2	2	2	2 2	<u> </u>	: 2	587
Solid Properties Solid Properties Solid Properties Solid Properties Solid		sounding time	end tone sounds.																							
Part																		4					\perp	_		
Section Sect	592	Report for client PC		0: Not reported 1: Reported	1	1	1 1	1 1	1	1	1	1	1	1	1 1	1 1	1	1	1	1	1	1	_, 1 1	. 1	1	592
Coloration frequency Set the frequency range for Clae 12-20-20-11 12-20-20-20-11 12-20-20-20-11 12-20-20-20-11 12-20-20-20-11 12-20-20-20-11 12-20-20-20-20-20-20-20-20-20-20-20-20-20																		-						\bot	4	\perp
Market M		•	-		 1	1																				
Color Colo	602	· · ·			0	0	0 0	0 ∥ 1	1	1	1	1	1	1	1 1	1 1	1	1	1	1	1	1	_, 1 1	C	' 0	602
Mathematical Composition Mathematical Compos	L										_	-						+_	-					+	4	
060 Control channel speed (Line 2)	605		CI ON-satiable time.		0	0	0 0) c) () 0	0	0	0	0	0 0) 0	0 0	0	0	0	0	0	0 0	' O	' 0	605
Math		,			_						-	-	<u> </u>				+-	+-	!	-		_		+	+-	
Set the Clourier value for the O-Once machine to enter the auto-recognish mode. \$align*** 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 4 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5	606		CI OFF-satiable time.	0: 650ms 1: 350ms 2: 175ms 3: 90ms	2	2	2 2	2 2	2 2	2 2	2	2	2	2	2 2	2 2	2 2	2	2	2	2	2	2 2	. 2	: 2	606
## Select the control channel speed for each receive (N.o. of PPR reception) (V.34 Line 2) ## Select the number of the PPR reception) (V.34 Line 2) ## Select the initial value for the system of ratio (J. 11 Lines) (J. 11 Lin	007	,			_	-	4 .	. -		\	<u> </u>								_			_		+	+	
Cum 2 15 15 15 15 15 15 15	607				1	4	1 2	2 2	' ²	2 2	2	2	2	2	2 2	2 2	' 2	2	2	2	2	2	2 2	. 1	1	607
15.15times 15.			· ·	1: Once																						
Value increased one by one Value increased one increased one increased one by one Value increased one increased one increased one by one Value increased one increase		(Line 2)	tion mode.	i 45: 45tim -																						
Select the control channel speed (2, 1200bps 1; 2400bps 1; 2400bps 1) and on the V.34 communication. Ontrol Channel speed (2, 1200bps 1; 2400bps 1; 2400bps 1) and on the V.34 communication. Set the number of the PPR recep- 0; Once the receptor (N.34 Line 2) and of the PPR receptor (N.34 Line 2)																							.			
Line 2 Inch Line	610	Control shannel and	Coloct the control channel aread	` '			0 (, 0	_	-		0		1 0		-				_		+	+	610
611 Fall-back condition for frail-back condition for frail-back condition for fall-back condition for receiver (No. of PPR receiv	1 610	•	-	0. 1200bps 1. 2400bps	"	"		, II (,	, 0	"	"	0	"	۱ اا ت	, 0	,	' '	"	0		0	, 0 0	′ ⁰		610
transmitter (No. of PPR reception) (V34 Line 2) 131 Line 2	611	· /		0: Once	 5	5	5 4	5 5		5 5	5	5	5	5	5 1	5 5	5	5	5	5	5	5	5 5	-	- 5	611
reception) (V.34 Line 2) Fall-back condition for receiver (No. of PPR reception) (V.34 Line 2) Fall-back condition for receiver (No. of PPR reception) (V.34 Line 2) Fall-back condition for fall-back condition in the variety of the number of the PPR reception (N.34 Line 2) Fall-back condition for receiver (No. of PPR reception) (V.34 Line 2) Fall-back condition for fall-back condition in the variety of the number of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the number of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the number of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the number of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the number of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the number of the PPR reception (N.34 Line 2) Fall-back condition in the variety of the N.34 communication. The smaller the set value, the higher the transmission level becomes. Herrors occurrequently of training is not sent, the transmission level becomes. Herrors occurred the transmission level becomes. Herrors occurred the transmission of the transmission the transmission of the transmission of the transmission the transmission of the transmission level becomes. Herrors occurred the transmission of	"		· ·		"			, ,	, ,	, 3	3	"	"		١ ١	, '	,	' '	3	"		5	,	,		"
Fall-back condition for receiver (No. of PPR reception) (V.34 Line 2) Set the number of the PPR reception) (V.34 Line 2) Set the initial value for the symbol rate in the V.34 communication. Maximum modem speeds for each setting are as follows. 2400: 21600bps, 2800: 26400bps 3000: 28800bps. 3492: 33600bps Set the number of steps in which (Line 2) Set the number o		,		ı ı																						
Set the number of the PPR reception for fall-back condition for receiver (No. of PPR reception) (V.34 Line 2) Set the initial value for the symbol or ate in the V.34 communication. Maximum modem speeds for each setting are as follows. 2400: 21600ps, 2800: 28000ps, 3000: 28800ps, 3000: 28800ps, 3000: 31200ps, 3000: 28800ps, 3000: 31200ps, 3000: 28800ps, 3000: 31200ps, 3000: 3120		reception) (v.54 Line 2)	v.54 transmission.	10: 11times																						
receiver (No. of PPR receiver) (V.34 Line 2) Set the initial value for the symbol rate (Line 2) Set the initial value for the symbol rate (Line 2) All value decreased one by one) Set the modem transmission level for the W.34 communication. The magnler the set value, received (N.34) (Line 2) Set the number of steps in which (Line 2) Set the number of steps in wh	612	Fall-hack condition for	Set the number of the PPR recen-		5	5	5 4	5 5		5 5	5	5	5	5	5 1	5 5	5	5	5	5	5	5	5 5	; F	5	612
Feederion V.34 crosspion V.34 crosspion V.34 crosspion V.34 crosspion V.34 symbol rate (Line 2) Set the initial value for the symbol rate in the V.34 communication. Maximum modem speeds for each setting are as follows. 2400: 21600bps, 2800: 26400bps 3000: 28800bps, 3200: 31200bps 3000: 28800bps, 3200: 31200bps 3000: 28800bps, 3200: 31200bps 3000: 28800bps 3000: 31200bps 3000: 28800bps 3000: 31200bps 3000: 28800bps 3000: 31200bps 3000: 312	012		· ·		"			, II ,	´ `	, J	"	"	"		ັ∥`	, ,	, J						,			012
10: 11times 10		,		!																						
614 V.34 symbol rate (Line 2) Set the initial value for the symbol 0 2400 1:2800 2:3000 3:3200		(1.000)	v.o i rocoption.	10: 11times																						
rate in the V.34 communication. Maximum modem speeds for each setting are as follows. 2400: 21600bps, 2800: 28400bps 3000: 28800bps, 3200: 31200bps 3492: 33600bps 615 V.34 fall-back method (Line 2) 616 TX attenuation value (V.34) (Line 2) Set the modem transmission attenuation. The smaller the set value, the higher the transmission level for the V.34 communication. The smaller the set value, becomes. If errors occur frequently or training is not sent, the transmission at sent and the transmission at the framsmission at the correct of the V.34 communication. Maximum modem speeds for each setting are as follows. 2400: 21600bps, 3200: 28400bps 3492: 33600bps 615 V.34 fall-back method (b.16 transmission) at the modem speed is fall-backed. 616 TX attenuation value (V.34) (Line 2) 617 Tax attenuation value (V.34) (Line 2) 618 Type Tax attenuation value (V.34) (Line 2) 619 Tax attenuation value (V.34) (Line 2) 610 Tax attenuation value (V.34) (Line 2) 610 Tax attenuation value (V.34) (Line 2) 611 Tax attenuation value (V.34) (Line 2) 612 Tax attenuation value (V.34) (Line 2) 613 Tax attenuation value (V.34) (Line 2) 614 Tax attenuation value (V.34) (Line 2) 615 Tax attenuation value (V.34) (Line 2) 616 Tax attenuation value (V.34) (Line 2) 617 Tax attenuation value (V.34) (Line 2) 618 Tax attenuation value (V.34) (Line 2) 619 Tax attenuation value (V.34) (Line 2) 619 Tax attenuation value (V.34) (Line 2) 610 Tax attenuation value (V.34) (Line 2) 611 Tax attenuation value (V.34) (Line 2) 612 Tax attenuation value (V.34) (Line 2) 613 Tax attenuation value (V.34) (Line 2) 614 Tax attenuation value (V.34) (Line 2) 615 Tax attenuation value (V.34) (Line 2) 616 Tax attenuation value (V.34) (Line 2) 617 Tax attenuation value (V.34) (Line 2) 618 Tax attenuation value (V.34) (Line 2) 619 Tax attenuation value (V.34) (Line 2) 619 Tax attenuation value (V.34) (Line 2) 610 Tax attenuation value (V.34) (Line 2) 6	614	V34 symbol rate (Line 2)	Set the initial value for the symbol		 4	4	4 4	1 4	. 2	1 4	4	4	4	4	4 4	1 4	. 4	. 4	4	4	4	4	4 4	1 /	4	614
Maximum modem speeds for each setting are as follows. 2400: 21600bps, 2800: 26400bps 3200: 31200bps 3200: 31200bps 3492: 33600bps 615 V.34 fall-back method (Line 2) 616 TX attenuation value (V.34) (Line 2) Set the modem transmission attenuation level for the V.34 communication. The smaller the star value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission sent, the transmission level becomes. If errors occur frequently or training is not sent, the transmission.	"	(2.110 Z)			'		•			. .	'	'		•	•	`	` `		'				. '	'	'	
setting are as follows. 2400: 21600bps, 2800: 26400bps 3000: 28800bps, 3200: 31200bps 3492: 33600bps 615 V.34 fall-back method (Line 2) Set the number of steps in which the modem speed is fall-backed. Set the modem transmission attenuation level for the V.34 communication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission. Set thin are as follows. 2400: 21600bps, 2800: 26400bps 3000: 28800bps, 3200: 31200bps 3492: 33600bps O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																										
2400: 21600bps, 2800: 26400bps 3000: 28800bps, 3200: 31200bps 3492: 33600bps 615 V.34 fall-back method (Line 2) 616 TX atternuation value (V.34) (Line 2) Set the modem transmission level for the V.34 communication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission.																										
3000: 28800bps, 3200: 31200bps 3492: 33600bps 615 V.34 fall-back method (Line 2) 616 TX attenuation value (V.34) (Line 2) Set the modem transmission attenuation level for the V.34 communication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission.																							.			
3492: 33600bps Set the number of steps in which (Line 2) Set the modem speed is fall-backed. Set the modem transmission attenuation level for the V.34 communication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission. 3492: 33600bps Set the number of steps in which (0: 1step 1: 2steps 2: 3steps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1																							
Set the number of steps in which (Line 2) Set the number of steps in which (Line 2) Set the modem speed is fall-backed. Set the modem transmission attenuation level for the V.34 communication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission. Set the number of steps in which (Set the number of steps i																										
(Line 2) the modem speed is fall-backed.	615	V.34 fall-back method	•	0: 1step 1: 2steps 2: 3steps	0	0	0 (o c) (0	0	0	0	0	0 (0	0	0	0	0	0	0	0 () (0	615
Set the modem transmission attenuation value (V.34) (Line 2) Set the modem transmission attenuation level for the V.34 communication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmission.		(Line 2)	-																							
nication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmis-	616	, ,		0: 0dB	10	13	10 1	0 12	2 1	2 12	12	12	12	12 1	12 1	2 12	2 12	2 12	12	12	12	12	12 1	2 1	0 10	616
nication. The smaller the set value, the higher the transmission level becomes. If errors occur frequently or training is not sent, the transmis-		(V.34) (Line 2)	tenuation level for the V.34 commu-	1: -1dB																						
becomes. If errors occur frequently or training is not sent, the transmis-			nication. The smaller the set value,																							
becomes. If errors occur frequently or training is not sent, the transmis-			the higher the transmission level	15: -15dB																						
			becomes. If errors occur frequently	(Value decreased one by one)																						
sign level should be changed			or training is not sent, the transmis-																							
			sion level should be changed.																							

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900-999 Adjustment of system setting

Code	Adjustment	Function	Setting												faul											Code
	-			AS	AU	HΚ	US C)E	GB I	IT E	BE	IL F	I E	S A	СН	SE	DK	NO	PT	FR	GR	PL	ни с	Z T	₹ Z/	4
926	Paper width declaration in paper empty state	Select either size, A4 or B4, to declare the paper size when "0: Paper" has been selected for the code 346 and papers in every cassette are run out.	0: A4 1:B4	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0	0	0 (0 0	<i>i</i> 0	926
930	Fax document output tray		0: Receiving tray 1: Finisher 1st bin 2: Finisher 2nd bin	0	0	0	0	0	0	0	0	0 ()	0 0	0	0	0	0	0	0	0	0	0 () (0	930
931	Night time memory printing		0: Printed immediately 1: Printed later	0	0	0	0	0	0	0	0	0 (0	0 0	0	0	0	0	0	0	0	0	0 () (0	931
940	UI display for Tx ATT	Set whether the [Tx ATT] icon is displayed in the Phone Book registration screen or not.	0: OFF 1: ON	0	0	0	0	0	0	0	0	0 (0	0 0	0	0	0	0	0	0	0	0	0 () (0	940
944	Error code reservation for protocol trace list (Line 1)	Enter an error code decimally to print out the protocol trace list not for each communication but only for that specific error.	0-255: Error code	0	0	0	0	0	0	0	0	0 (0	0 0	0	0	0	0	0	0	0	0	0 (0 0	0	944
953	Time display	Select the format to display the date.	0: Y/M/D 1: M/D/Y 2: D/M/Y	1	1	1	1	2	2	2	2	2 2	2	2 2	2	2	2	2	2	2	2	2	2 2	! 1	1	953
954	Page scan limit timer	Set the maximum interval between pages manually placed.	0: Not used 1: 10sec 1: 15: 150sec	4	4	4	4	4	4	4	4	4 4	4	4 4	4	4	4	4	4	4	4	4	4 4	. 4	4	954
955	Return loss setting	Select the NCU termination circuit.		 0	1	0	0	3	3	3	3	3 ;	3	3 3	3	3	3	3	3	3	3	3	3 3	3 0) 0	955
	RDC security function	Set if the security function for RDC is used.																					0 (
957	Display of RDC security		0: Not displayed 1: Displayed (► chapter 2.6)	1	1	1	0																1 1			
958	RDC security code		Decimal number of 20 digits	0		0																	0 (
961	Protocol trace reservation error code (Line 2)	Enter an error decimal code of the error which needs to be reported on the protocol trace list.	0-255: Error code	0	0	0	0	0	0	0	0	0 (0	0 0	0	0	0	0	0	0	0	0	0 0) (0	961
	FCC type for TTI format		0: OFF 1: ON																				1 1			
963	UI display for automatic order operation	Error "0" when performing the set- ting operation for the automatic or- der. Return it to "1" when the set- ting is finished.	0: Not displayed 1: Displayed (► chapter 2.7)			0																	0 0		0	
	Threshold value for automatic order	Enter this value when making an automatic order. Sets the differential value for the total counter to judge the emptiness of the toner after the cartridge is replaced.																								0 964
	DTS format of address for transmission/reception journal		0: OFF 1: ON	 0	0	0	0	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1	1 1	C	0	970

GD1080/1090 SELF-DIAGNOSIS MODE 2 - 28 October 2000 © TOSHIBA TEC 2 - 29 GD1080/1090 SELF-DIAGNOSIS MODE

2.5 Fax Clearing Mode (1*)

Various fax memories are initialized in the fax clearing mode (1*).

[A] Memory Areas

- (1) User registration area (NVRAM)
 - 1) ID registration area
 - 2) Phone book registration area
 - 3) Group registration area
 - 4) Program registration area
- (2) Image data area (HDD, NVRAM)
 - 1) Transmission file
 - 2) Reception file
 - 3) Image data file management area
- (3) System setting area (NVRAM)
 - 1) Settings in the function mode (13) Areas 100 ~ 999
 - 2) Home position
 - 3) Journal area
 - 4) Error count area

[B] Types of Initialization

(1) Clearing All

- User registration area (NVRAM)
 Initialized so that there are no data stored.
- Image data area (HDD, NVRAM)
 Initialized so that there are no data stored.
- System setting area (NVRAM)
 Values are reset to the default settings.

(2) Clearing the non-user area

- User registration area (NVRAM) Not initialized.
- Image data area (HDD, NVRAM)
 Initialized so that there are no data stored.
- System setting area (NVRAM)
 Values are reset to the default settings.

(3) Clearing the image data area

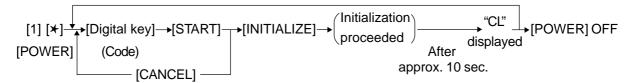
- User registration area (NVRAM) Not initialized.
- Image data area (HDD, NVRAM)
 Initialized so that there are no data stored.
- System setting area (NVRAM)
 Not initialized.

(4) Clearing the system setting area

- User registration area (NVRAM) Not initialized.
- Image data area (HDD, NVRAM) Not initialized.
- System setting area (NVRAM)
 Values are reset to the default settings.

When the machine is started in one of the self-diagnosis modes, the machine is occupied by the mode until the power is turned OFF. In this case, the recovery processing for the fax operation is not performed.

[Operation procedure]



* When "CL" is displayed instead of the set number, that indicates that the machine is in the standby mode.

Initialization codes for the fax

Code	Element	Contents	Mode	Image quality mode	Default
100	MAINT	Clearing all	Fax	ALL	_
101	MAINT	Clearing the non-user area	Fax	ALL	_
102	MAINT	Clearing the image data area	Fax	ALL	_
103	MAINT	Clearing the system setting area	Fax	ALL	_

Note 1: It takes about 20 seconds until the digital keys become operable after the power has been turned ON while [1] and [★] are pressed simultaneously.

Note 2: Before performing the initialization, confirm that the destination value is correct in the Setting Mode (08) described in the chapter 2.3.

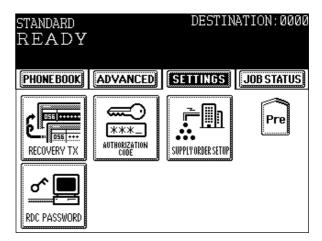
If the initialization is performed with the wrong destination setting, the default value of the function mode is changed to that for the wrong destination.

2.6 Setting the RDC Password

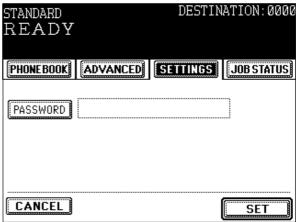
The procedure to set the security password necessary to perform the RDC communication is described in this section.

<<Operation procedure>>

- (1) Turn ON the power while [1] and [3] are pressed simultaneously to enter the function mode. Set the value for the code "957" to "1".
- (2) Turn OFF the power and back ON.
- (3) Register a RDC password.
 - a. Press the [SETTINGS] icon to enter the setting/registration menu.
 - Press the [NEXT] icon and then [RDC PASSWORD] icon.



 Press the [PASSWORD] icon, and enter a password to be registered in the number entry screen.



- (4) Turn OFF the power, then back ON while "1" and "3" are pressed simultaneously to enter the function mode (13) again.
- (5) Set the value for the code "957" to "0", then turn OFF the power.

^{*} The security function becomes effective when the value for 13-956 is set to "1".

2.7 Automatic Order for Supplies

New toner cartridges are automatically ordered when the remainder of the purchased cartridges becomes low. Register the following items to use this function.

Customer information

• DESTINATION: Enter the toner supplier's phone (FAX) number

• CUSTOMER NO.: Enter the customer number.

• CONTACT NAME: Enter the name of the person in charge of the order.

TEL NUMBER: Enter the phone number of the person in charge of the order.
 SHIP TO NAME: Enter the name of the person who will receive the toner cartridge.

• SHIP TO ADR: Enter the address to where the toner will be shipped.

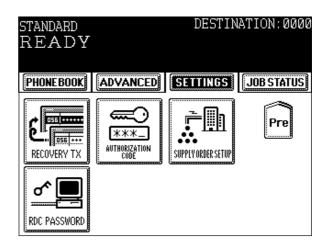
Order information

• PART NUMBER: Enter the part number of the toner to be ordered.

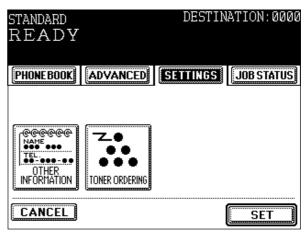
CONDITION: Register the number of the toner cartridges consumed before ordering.
 QUANTITY: Enter the number of the toner cartridges to be ordered at one time.
 AUTO ORDER: Set whether the toner is to be automatically ordered or not (ON/OFF).

<< Procedure>>

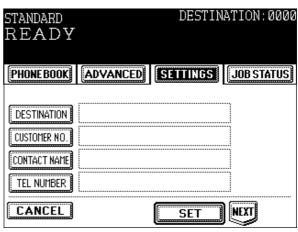
- (1) Turn ON the power while pressing "1" and "3" simultaneously. Enter the value "1" for the code "963".
- (2) Turn OFF the power and back ON.
- (3) Register the customer information.
 - a. Press the [SETTINGS] icon to enter the setting menu. Press the [NEXT] icon then [SUPPLY ORDER SETUP] icon.

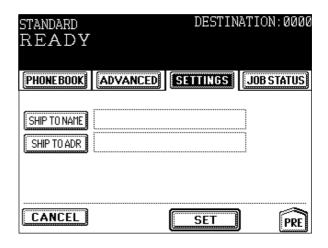


b. Press the [OTHER INFORMATION] icon.

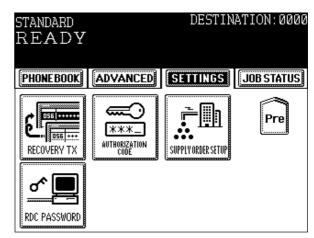


- Press the [DESTINATION] icon, and either select the supplier from the phone book or enter the phone number with the digital keys.
- d. Press the [CUSTOMER NO.] icon, and enter the customer number with the digital keys.
- e. Press the [CONTACT NAME] icon, and enter the name of the person in charge in the character entry screen.
- f. Press the [TEL NUMBER] icon, and enter the telephone number of the person in charge with the digital keys.
- g. Press the [NEXT] icon.
- h. Press the [SHIP TO NAME] icon, and enter the name of the person who will receive the toner cartridges in the letter entry screen.
- Press the [SHIP TO ADR] icon, and enter the address to where the toner cartridges are to be delivered in the letter entry screen.
- j. Check the entered information, then press the [SET] icon if it is correct.

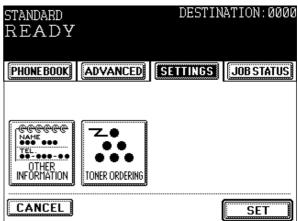




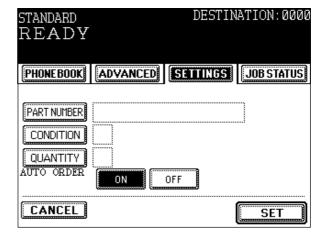
- (4) Make an toner order
 - a. Press the [SET] icon to enter the setting menu. Press the [NEXT] icon then the [SUPPLY ORDER SETUP] icon.



b. Press the [TONER ORDERING] icon.

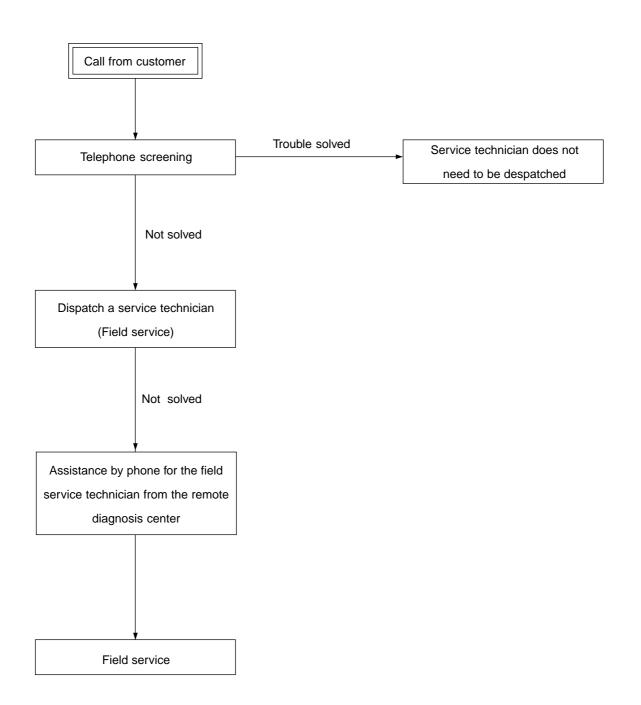


- c. Press the [PART NUMBER] icon, and enter the part number with the digital keys.
- d. Press the [CONDITION] icon, and enter the number of the toner cartridges consumed before ordering.
- e. Press the [QUANTITY] icon, and enter the number of the cartridges to be ordered with the digital keys.
- f. Press [ON] (or [OFF]) icon for the AUTO ORDER.
- g. Check the settings and press [SET] icon if they are correct.

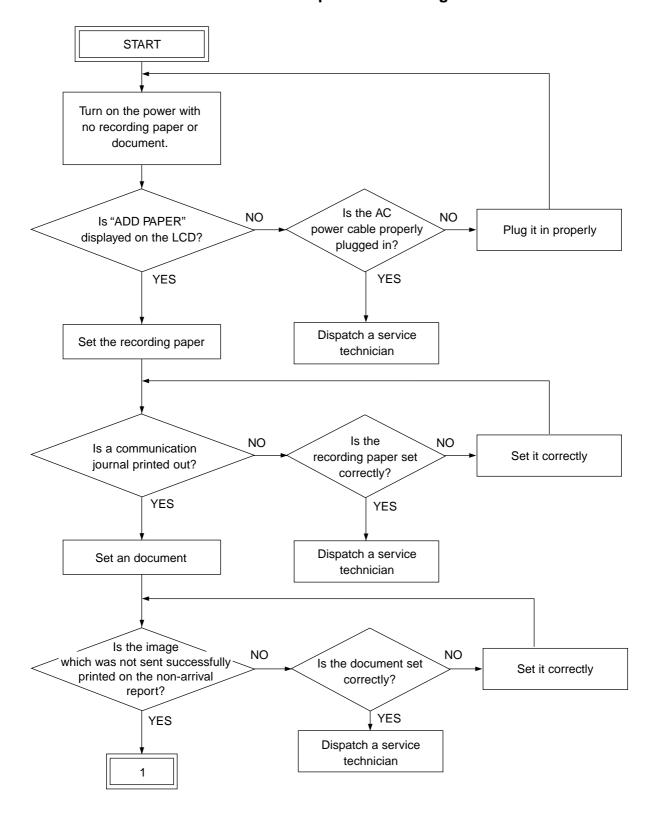


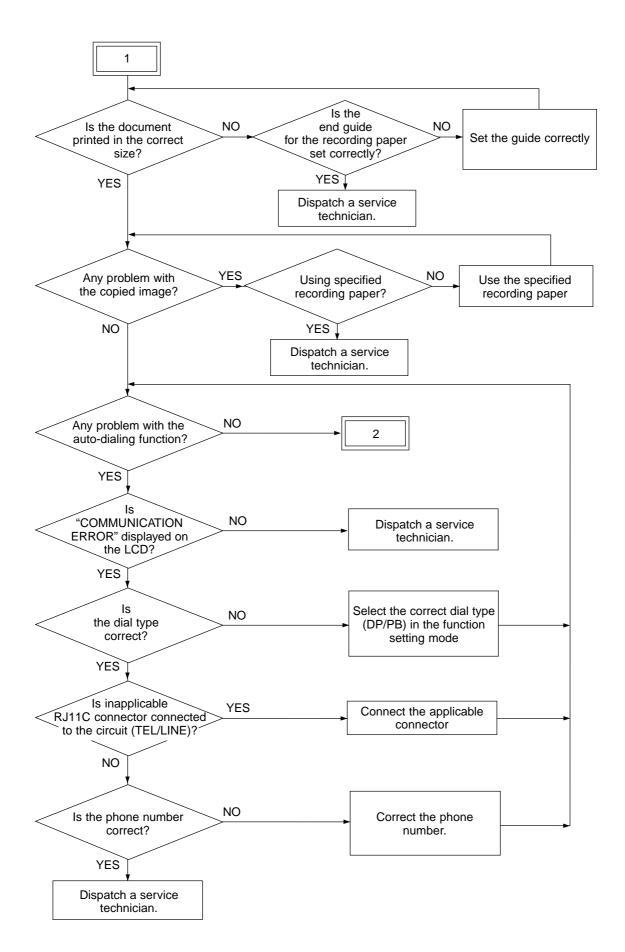
- (5) Turn OFF the power, then back ON while "1" and "3" simultaneously are presssed.
- (6) Enter the value "0" for the code "963", and turn OFF the power.

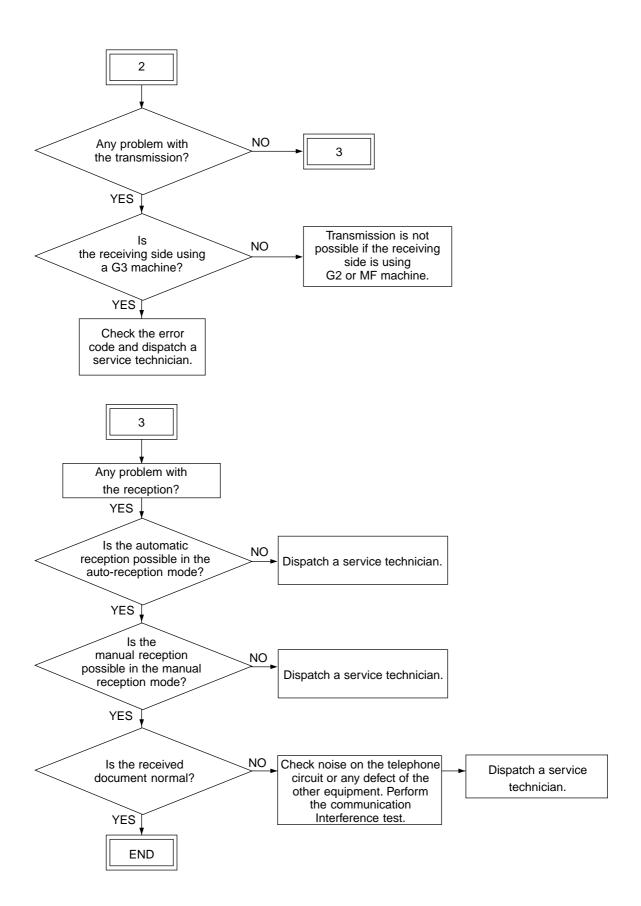
3. TROUBLESHOOTING



3.1 Flow Chart for Recommended Telephone Screening







3.2 Error Analysis Flow

(1) Self-Diagnosis Function

Service technicians can figure out the contents of the error with the following information:

- Indication on the control panel
- Error code on the transmission/reception journal

(2) Preparation for the diagnosis

Service technicians should output the phone book/group number information and function list for maintenance. Confirm that no received document data are stored in the memory by checking the Memory RX LED and reservation list.

Turn OFF the power and check the following items before starting the diagnosis.:

- Is the power cable properly plugged in?
- Are all the connectors securely connected?

Notes: • Before replacing the parts, confirm that there is no data to be transmitted or no received document in the memory. Turn OFF the power and unplug the power cable.

• Do not touch the terminal of the connectors. Otherwise, a poor connection may be caused.

3.3 Lists Required When Problem has Occurred in the Field

Output the following lists when problem occurs in the field. They are described in the order of the priority the most important one come first in this section. It is not necessary to output these lists immediately after the trouble has occurred, but they must be prepared for any kind of trouble regarding the fax operation.

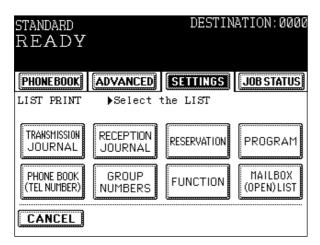
[Precaution]

Disconnect the telephone line to stop the communication when trouble occurs. Since the only last communication is reported on the protocol trace list, if the telephone line is not disconnected immediately after the trouble has occurred, next communication might come in before the line is disconnected and be printed out instead of the communication in question.

<u>Do not turn OFF the power</u> before printing the protocol trace list and memory dump list. Otherwise, the information will be lost.

[Outputting a trace list] (in the trace list output mode)

In the list output screen <u>with no list selected</u>, press the digital keys designated for each list referring to the table in the next page, then press the [START] key.



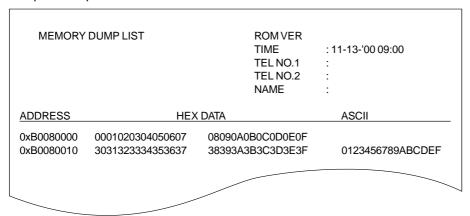
Item No.	List	Digital keys to be pressed
1	Protocol trace list (Line1)	[★][#][★][★][3][1][1]→[START]
2	Protocol trace list (Line2)	[★][#][★][3][1][2]→[START]
3	Error count list (Transmission/reception) (Line 1)	[*][#][*][*][3][2][1]→[START]
4	Error count list (Transmission/reception) (Line 2)	[*][#][*][*][3][2][2]→[START]
5	Function list for maintenance	[★][#][★][3][3]→[START]
6	Memory dump list (system)	[*][#][*][*][3][4] →[*][1][*][5][8][0][*][1][*][3][5][0] →[2][0][0][0]→[START]
7	Memory dump list (board)	[★][#][★][★][3][5]→[Address (8 digits)]
	(Values to be entered for address and size vary depend on the type of trouble)	→[Size (4 digits)]→[START]
8	All lists (protocol trace lists for 2 lines,error	[*][#][*][*][3][7]
	count lists for 2 lines,function list and memory	→[*][1][*][5][8][0][*][1][*][3][5][0]
	dump list for system and board)	→[2][0][0][0]→[START]
9	Supply order form	[★][#][★][3][8]→[START]

 $\textbf{Note:} \ \ \textbf{Enter the HEX address and the size referring to the following table}.$

Character to be entered	Key to press
0	0
1	1
2	2
:	
9	9
A	* 0
В	* 1
С	* 2
D	* 3
E	* 4
F	* 5

(1) Memory dump list (board)

 Command/status information between the CPU controlled by the fax board and the CPU of the copier is reported.



(2) Memory dump list (System)

 Command/status information between the CPU controlled by the fax board and the CPU of the copier is reported.

(3) Protocol trace list

Fax protocols for one communication to which an error has occurred are reported.

PF	ROTO	COLTRACEL	LIST (LINE 1)	ROM VER TIME TEL NO.1 TEL NO.2 NAME	: 11-13-'00 09:00 : :)
TIME	S/R	FCF DATA	FIF DATA		ASC	<u> </u>
0035	R	NSF	00000912096d3			m0000
0035	R	CSI	3831202020202	0202020	81	
0035	R	DIS	00000000001110	0011 10010111 0010	00000	

(4) Error count list

• The fax communication error history: Frequency of the occurrence of a particular error can be checked

ERROR COUN	NT LIST (LIN	ROM VER TIME TEL NO.1 TEL NO.2 NAME	: 11-13-'00 18:44 : 01234567890123456789 :			
TRANSMISSION	STATUS	HISTORY	ACTUAL			
		11-03-'00 12:00- 11-10-'00 12:15	11-10-'00 12:16			
	00	980/1000	95/50			
	33	0/1000	0/50			
	99	5/1000	2/50			

ERROR COUN	NT LIST (LIN	E 1) ROM VER TIME TEL NO.1 TEL NO.2 NAME	: 11-13-'00 09:00 : :
TRANSMISSION	STATUS	HISTORY	ACTUAL
		11-03-'00 12:00- 11-10-'00 12:15	11-10-'00 12:16
	00	980/1000	95/50
	33	0/1000	0/50
	99	5/1000	2/50

(5) Function list for maintenance

• Settings for the self diagnosis (mode (13)) for the fax operation are output.

FUNCTI	ON LIST	FOR MAINTEN	ROM VER TIME TEL NO.1 TEL NO.2 NAME	: 11- : : :	13-'00 09:00		
CODE NO	DATA	CODE NO	DATA	CODE NO	DATA	CODE NO	DATA
116 303	1 15	505	1	707	2	909	3

(6) Supply order form

SUPPLY ORDER FORM

DATE & TIME : 08-21-'00 11:01
CUSTOMER NUMBER : 12345678901234567890
SHIP TO NAME :
SHIP TO ADDRESS :
CONTACT NAME :
CONTACT TEL NUMBER : 0123-456-7890

TONER CARTRIDGE
PART NUMBER : TONER CARTRIDGE
QUANTITY : 0

(7) Transmission journal

• Transmission records for 40 communications are listed. Occurrence conditions of the communication errors can be checked with information such as the time when the communication took place, error codes, etc. Error code "50" indicates that the other party's line of the other side is busy (talking). If this error occurs frequently, it can be decreased somewhat by increasing the number of redialing attempts. Also, it can be checked if the communication fails with a particular address.

(8) Reception journal

Reception records for 40 communications are listed. Occurrence conditions of the communication
errors can be checked with the information such as the time when the communication took place,
error codes, etc. Also, it can be checked if the communication fails with a particular address.

(9) Function list

• FAX function list in the list output menu in the screen for the fax operation is output. The default settings of the resolution during the data transmission can be checked.

Symptoms (describe as specific as possible)	
Cymptoms (describe as specific as possible)	

3.4 Other Information Required for Error Analysis

The following information is also needed to analyze the malfunction (especially a communication error). Check the circles below if they are applicable.

(1)	If the error is cleared or not.										
	○ Cleared by turning ON/OFF the	ne power.									
	○ Cleared by performing "Cleari	ng the image data area (1*-102	2)".								
	Note: Image data are erased by this operation.										
	○ Cleared by replacing the boar	d.									
	O Not cleared.										
(2)	Frequency of occurrence										
	O Frequently (occurring daily or	always)									
	\bigcirc Sometimes (about once a we	ek)									
	Only once										
(3)	When a communication error is	occurring, turn ON the circuit m	onitor for the line 1 or 2 (13–338),								
	and check the condition of the FAX communication with the tone from the speaker.										
	Note: Turn OFF the circuit mon	itoring function after the checking	g is finished (13–338: 0).								
	○ Signals from the transmitter a→ Check the model name of										
	O Noise occurring on the circuit										
	ightarrow Ask the telephone (or telec	communications) company if the	line condition is normal.								
	○ Busy tone is heard from the c	ther party during the communic	ation.								
	→ Ask by phone if the other party's machine has any problem. If it does not, check its mode name.										
		Others (describe condition):									
(4)	Condition of the machine when	the problem occurred									
a.	Display										
	Control panel:										
	○ Copying operation screen	○ Fax operation screen	O Printing operation screen								
	○ Energy saver screen	○ "Auto power off" screen									
	Describe the items displayed on the control panel in detail :										
	Status of LEDs:										
	○ MEMORY RX ON	○ "Communicating" ON									
	○ Power ON										

o.	State of the machine						
	Availability of the recording paper	er:					
	1 st cassette (size =) ○ No p	aper	O Paper p	resent			
	2 nd cassette (size =) ○ No p	aper	O Paper p	resent			
	3 rd cassette (size =) ○ Not i	nstalled	○ No pape	er	○ Pape	r present	○ LCF
	4 th cassette (size =) ○ Not i	nstalled	○ No pape	er	○ Pape	r present	○ LCF
c.	Conditions of RADF (this information	ation is nee	ded for trans	smission	error)		
	Originals have been all discha	arged					
	O Abnomal (original jam, etc.)						
	Others (be as specific as pos	sible):)	
d.	Condition/state of the communication	ation					
	○ Transmission error						
	○ Reception error						
	○ ECM mode						
	○ G3 mode						
	Image errors such as stream	image or in	nterrupted im	nage occ	ur in the	G3 mode w	hen the noise
	occurs on the line. These are	liable to o	ccur since th	ne line co	ndition d	iffers depe	nding on each
	communication.						
	If the same errors occur to th	e image wh	ich was rese	ent, they	can be d	ecreased b	y reducing the
	transmission speed of the se	nding side.					
	O Communication cannot be m		•				
	(Information of the other side	's machine:)	
	If the communication is impos	sible with a	particular ni	umber, it	is consid	ered that th	e other party's
	machine has broken down or	has been bı	usy (there is	no respo	nse) beca	ause the red	cording papers
	have run out and the memory	is full. Ched	ck the condit	ion of the	terminal	of the othe	r side.
	If there is no problem with th	e terminal,	check the m	nodel nar	me since	there is a	possibility that
	that particular type of the ma	chine has c	caused the p	roblem.			
	Original size =	○ A3 ○	B4	○ B5	○ A5		
	Size of the received document =	: O A3 O	B4	○ B5	○ A5		
	Resolution =	○ NORM	AL (8*3.85)	○ FINE	(8*7.7)	○ U-FINE	(16 or 8*15.4)
	Error occurred to the	st/nd/rd/t	th sheet out	of		sheets.	

e.	Condition of the circuit connection
	○ Connected directly with the public telephone circuit.
	○ Connected via a local exchange device or the main equipment.
	ightarrow Is any other equipment connected besides this unit?
	→ Does the ring tone sound normally (rings for one second and stops for 2 seconds)
	(If it is not normal, the reception may not be started.)
	○ Circuit switching device
	→ Are the circuit settings (DP10, DP20, PB) of the circuit switching device the same as those for
	this unit?
	○ Connection via an ISDN circuit terminal adaptor
	ightarrow Is the circuit number of the terminal adaptor correct? Is it the same number as that for the fax
	assigned to the other device (ex. data modem)?
	ightarrow Does the noise from the terminal adaptor affect the line? (Connect the TA with your machine
	and ground it to check.)
Со	onfiguration of the units
	(Illustrate the units connected to your machine such as the telephone lines, exchange system,
	telephones, modems, etc.)

f. Settings of the automatic energy saving and automatic power off
 Auto-clearing (08–204) =
 Automatic energy saving (08–205) =
 Automatic power OFF (08–206) =

4. PRECAUTIONS FOR INSTALLATION OF FAX UNIT

4.1 Installation of Fax Unit

After unpacking and installing the fax unit following the unpacking/setup instructions, be sure to perform "Clearing all" described with the same instructions. The unit is not turned ON without this operation.

[Operation procedure]

Perform the following operation after setting the country/region in 08-201 and 701.

[1] [\star] [POWER] \rightarrow [100] \rightarrow [START] (It takes about 20 seconds for the digital keys to be operable after the power is turned ON.) (It takes about 10 seconds until the display changes from '100' to 'CL'.)

[About FAX clearing mode/"Clearing all"]

When "Clearing all" is performed, the following operations are performed:

O Data in the phone book, ID registration, transmission/reception journal, memory transmission jobs, received data storing information stored in the NVRAM IC on the SYS board and HDD are erased. The system setting area and Fax function setting area are initialized (the settings are reset to the default values.)

4.2 Country/Region Code

Set the country/region code after the installation of the fax unit is finished.

NOTE: All data stored in the SRAM are erased when the country/region code is set/changed.

Setting the country/region code

- (1) Turn ON the power while pressing [0] and [8] simultaneously.
- (2) Enter "701" with the digital keys, and press [START].
- (3) Enter a code with the digital keys, and they press the [SET] icon or the [INTERRUPT] key.
 - (**►** 2.3 Setting mode (08))

Country/Region	Code
AS	1
AU	2
HK	3
US	4
DE	5
GB	6
IT	7
BE	8
NL	9
FI	10
ES	11
AT	12
СН	13
SE	14
DK	15
NO	16
PT	17
FR	18
GR	19
PL	20
HU	21
CZ	22
TR	23
ZA	24

• Country/region setting using the FG harness on the NCU board

These country/region require code setting on the NCU using the FG harness. All other countries/regions have only W1 connection on the board.

DE	GB	NL	IT	AT	BE	СН	SE	DK	NO	FI	PT	FR	ES	GR	ΙE	ZA	SG	HK	AU	ΝZ
W2	W2	W2	W1	W2	W2	W2	W2	W1	W2	W1	W2									

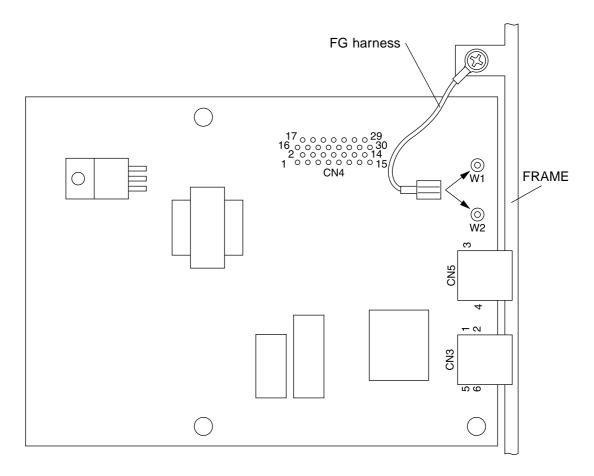


Fig. 4.2-1

5. UPDATING THE FIRMWARE

The firmware installed in this machine can be updated to the latest version or reinstalled if operations cannot be done properly due to damaged data, by using the download board.

<<Caution>> -

Firmware is not installed in the FAX board provided as a service part. Be sure to install the firmware when the FAX board is replaced in the field.

* The version of the firmware to be installed should be compatible with the other firmware installed in the machine.

<<Update procedure>>

- (1) Print out the following lists before updating the firmware so as to reconfigure the unit to the same settings later.
 - Function list for maintenance
 - Function list
 - Phone book number information
 - Group number information
 - Program information
- (2) Before turning OFF the power, check the "MEMORY RX" LED, mailbox/relay box report and reservation list to confirm that there is no reception data, F-code data and memory transmission data respectively since there is possibility that data can be lost when the power is turned OFF.
- (3) Update the firmware following the << Procedure>> in the next page.
- (4) Be sure to erase data in the memory by performing the "Fax clearing mode/Clearing the image data area" before performing any operation after the firmware update is finished. Otherwise, the firmware may not work correctly.
 - <<Operation procedure>>

Perform the following procedure after setting the country/region in 08-201 and 701.

- (5) If the machine does not work properly after (4), perform the "Fax clearing mode/Clearing all".
 - <<Operation procedure>>

Perform the following procedure after setting the country/region in 08-201 and 701.

$$[1][*][POWER] \rightarrow [100] \rightarrow [START]$$

Note: The ID information and data registered in the "Phone book number information", "Group number information" and "Program information" are erased so that these information need to be entered again referring to the lists printed out in (1).

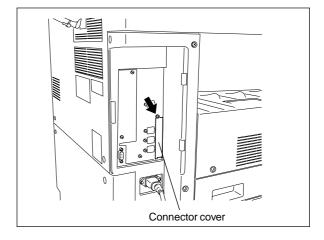
(**►** chapter 2.5)

(Procedure)

(1) Mount the ROM on the download board (PWA-DLM-320).

Note: Pay attention to the direction of the ROM when it is mounted.

(2) Take off the option cover of the copier. Remove one screw and take off the connector cover.



- (3) Connect the download board with the connector of the fax control board (FAX board).
- (4) Turn ON the power while pressing [0] and [8] simultaneously (The downloading is automatically started).
- (5) Turn OFF the power when the LED on the download board starts to flash. Disconnect the download board.
- (6) Output the protocol trace list and check the version of the ROM.