CHAPTER 2. ADJUSTMENTS

## [1] Adjustments

General

Since the following adjustments and settings are provided for this model, make adjustments and/or setup as necessary.

1. Adjustments

Adjustments of output voltage (FACTORY ONLY)

1. Install the power supply unit in the machine.

2. Set the recording paper and document.

3. When the document is loaded, power is supplied to the output lines. Confirm that outputs are within the limits below.

Output voltage settings
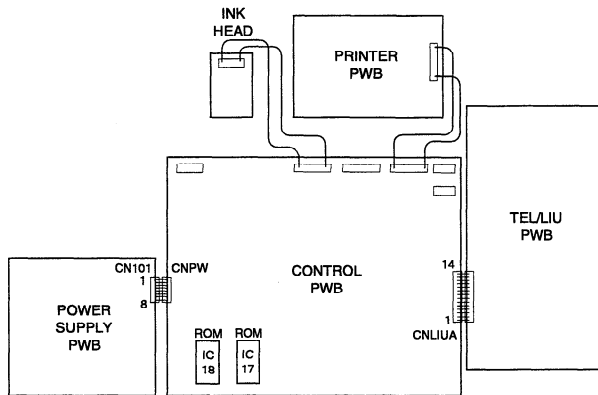
Output	Voltage limits
+5V	4.75V ~ 5.25V
V-REG	5.5V ~ 7.0V
+24V	23.52V ~ 24.48V

Connector No. Pin No.	CNPW
1	MG
2	MG
3	+24V
4	+24V
5	DG
6	+5V
7	DG
8	VREG

2. IC protectors replacement

ICPs (IC Protectors) are installed to protect the motor driver circuit.
ICPs protect various ICs and electronic circuits from an overcurrent condition.

The location of ICPs are shown below.
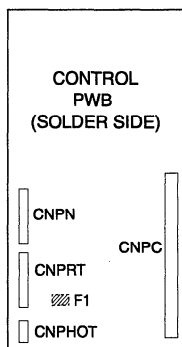
(1) F1 (ICP-S07) is installed in order to protect IC's from an over-current generated in the motor drive circuit. If F1 is open, replace it with a new one.

3. Settings

(1) Dial mode selector

DIAL mode (Soft Switch No. SW2 DATA No. 1)

(step 1) Select "OPTION SETTING".

KEY: [FUNCTION] (4)

DISPLAY: [OPTION SETTING] ⟺ [PRESS ✕ OR #]

(step 2) Select "DIAL MODE".

KEY: (#)(#)(#)(#)(#)(#)(#)(#)

Cursor
When initially registering, the mode shows 1=TONE. When registering again, the mode which was registered formerly is shown.

DISPLAY: [DIAL MODE] ⟺ [1=TONE, 2=PULSE]

(step 3) Select, using "1" or "2".

KEY: (1)

DISPLAY: [TONE SELECTED]

KEY: (2)

DISPLAY: [PULSE SELECTED]

(step 4) End, using the "STOP" key.

KEY: (⊘) STOP

[2] Diagnostics and service soft switch

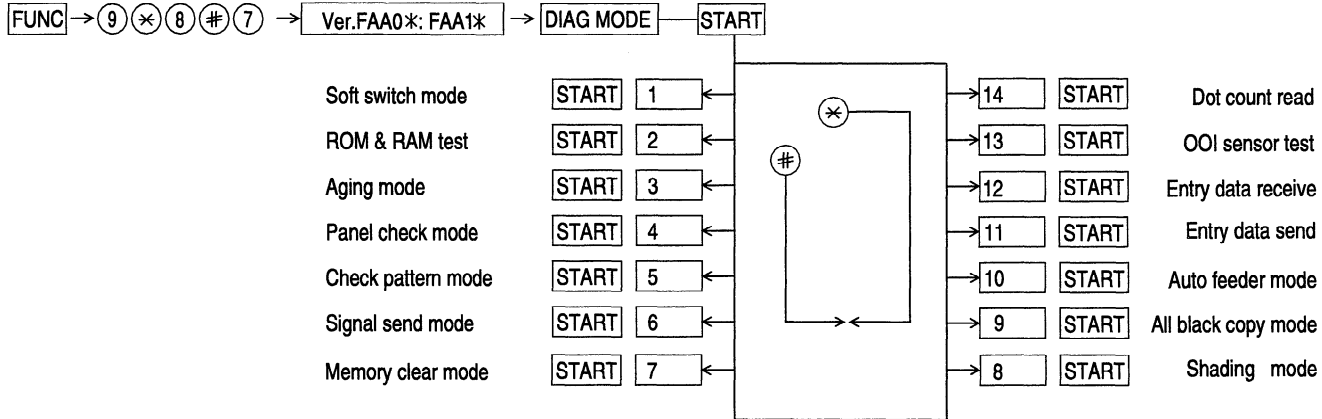## 1. Operating procedure

(1) Entering the diagnostic mode

Press FUNC → 9 → ⋈ → 8 → # → 7 , and the following display will appear.

| ROM Ver. FAA0 ✕: FAA1 ✕ | After 2 sec: | DIAG MODE |

FAA0 ✕ : FAA1 ✕ (UX-2700CMU)
FAB0 ✕ : FAB1 ✕ (UX-2700CMC)
FAC0 ✕ : FAC1 ✕ (UX-2550CMU)
FAD0 ✕ : FAD1 ✕ (UX-2550CMC)

Then press the START key and country name selected by country select will appear. Select the desired item with the ⋈ key or the # key or select with the rapid key. Enter the mode with the START key.

(Diag•specifications)

FUNC → ⑨ ⊗ ⑧ ⊕ ⑦ → Ver.FAA0✕: FAA1✕ → DIAG MODE — START

|						
Soft switch mode	START 1		⊗	14 START	Dot count read
ROM & RAM test	START 2			13 START	OOI sensor test
Aging mode	START 3	⊕		12 START	Entry data receive
Panel check mode	START 4			11 START	Entry data send
Check pattern mode	START 5			10 START	Auto feeder mode
Signal send mode	START 6			9 START	All black copy mode
Memory clear mode	START 7			8 START	Shading mode

If the dial mode cannot be set, repeat the dial mode operation, performing the following operation.

Memory clear when power is turned on

Pressing the START and STOP keys, turn on the main power, and the following message will be displayed.

| MEMORY CLEAR ? |

Press the START key when " MEMORY CLEAR? "appears.

START
KEY
◇ + STOP KEY ▽ → "Power ON" → START
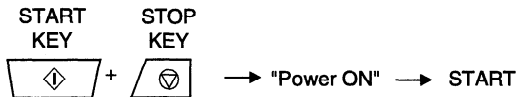
2. Diagnostic items

| ITEM No.	DIRECT key	Contents	Function
1	1	SOFT SWITCH MODE	Soft switches are displayed and changed. List can be output.
2	2	ROM & RAM TEST	ROM is sum-checked, and RAM is matched. Result list is output.
3	3	AGING MODE	10 sheets of check patterns are output every 5 minutes per sheet.
4	4	PANEL CHECK MODE	Panel keys are tested.
5	5	CHECK PATTERN MODE	Check pattern is output.
6	6	SIGNAL SEND MODE	Various signals of FAX communication are output.
7	7	MEMORY CLEAR MODE	Back-up memory is cleared, and is set at delivery.
8	8	SHADING MODE	Store the shading waveform according to the specified shading document.
9	9	ALL BLACK COPY MODE	To check the print head, whole dots are printed over the interval of 2 m.
10	10	AUTO FEEDER MODE	Insertion and discharge of document are tested.
11	11	ENTRY DATA SEND	Resisterd content is sent.
12	12	ENTRY DATA RECEIVE	Resisterd content is received and its list is output.
13	13	OOI SENSOR TEST	Check whether the ink sensor can detect nonexistence of ink correctly.
14	14	DOT COUNT READ	Check the ink consumption count value.

3. Diagnostic items description

3. 1. Soft switch mode

In this mode, the soft switch are set and the soft switch list is printed.
Soft switch mode screen.

Soft switch mode screen

```
SOFT SWITCH MODE
SW01=◉0000000
```
Switch No. 1   8
        Data
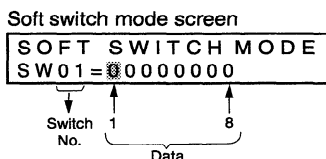
① Switch number selection

- Press START key for setting of the next soft switch. If the soft switch number is the final, pressing START key will exit the soft switch mode.
- Enter two digits of a soft switch number to set the switch number. If a switch number of unexisting soft switch is en tered, key error buzzer sounds to reject the input.

```
SOFT SWITCH MODE    SOFT SWITCH MODE    SOFT SWITCH MODE
SW01=00000000       SW1▓               SW16=00010110
          1               6
```
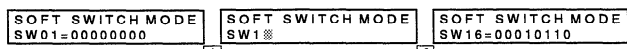
② Data number selecton

The cursor position shows the data to be set.
Pressing # key moves the cursor to the right. If, however, the cursor is on data number 8, prssing # key shifts the cursor to data number 1 of the next switch number. If the switch number is the final , pressing # key will exit the soft switch mode.
Pressing ⚹ key moves the cursor to the left. If, however, the cursor is on data number 1,Pressing ⚹ key shifts the cursor to data number 1 of the former switch number. If the switch number is 1, pressing ⚹ key will not move the cursor.

③ Data setting method

Press the FUNCTION key, and the data at the position of the cursor will be reversed to 0 when it is 1,or to 1 when it is 0.

④ Outputting method of soft switch list

In the soft switch mode, press the REPORT key, and the soft switch list will be output.
If the recording paper runs out or is clogged, the key error buzzer will sound with the process not received.

⑤ Storage of data

In the following case, the data of the soft switches set will be stored.
- It is shifted to set the next soft switch by pressing the START switch.
- It is shifted to set the next soft switch with the # key
- It is shifted to set the last soft switch with the ⚹ key
- It is shifted to set another soft switch by inputting two digits as the switch number.(When 2 digits are completely input.)
- Output of the soft switch list is started.

3. 2. ROM & RAM test

ROM executes the sum check, and RAM executes the matching test. The result will be notified with the number of short sounds of the buzzer as well as by printing the ROM & RAM check list.
If error does not occur, the buzzer does not sound.
(As for the print format refer to the list function specification.)

No.	Check device	Number of short sounds of buzzer
1	MAIN ROM1	1
2	MAIN ROM2	2
3	CPU ROM/RAM	3
4	S-RAM	4
5	D-RAM	5

The once buzzer sounding pattern is 0.25 sec. ON / 0.25 sec.OFF.

3. 3. Aging mode

If any document is first present, copying will be executed sheet by sheet. If no document is present, the check pattern will be printed sheet by sheet. This operation will be executed at a rate of one sheet per 5minutes, and will be ended at a total of 10 sheets.

3. 4. Panel check mode

The mode is used to check whether each key properly operates or not. Since the key is displayed on LCD when the key on the operation panel is pressed, press all the keys. Here, finally press STOP key.
When STOP key is pressed, the keys not judged as "pressed" are output in the result list. Here, three LED ports can be turned on alternately during the time from the start of the panel check mode to the end with the stop key.

3. 5. Check pattern mode

The mode is used to check the state of the printing head. It is ended with the following pattern printed on one printing sheet.

① Top skew
② Black print
③ Horizontal lines
④ Vertical lines
⑤ Nozzle test (check of printer)
⑥ Even dots print
⑦ Bottom skew
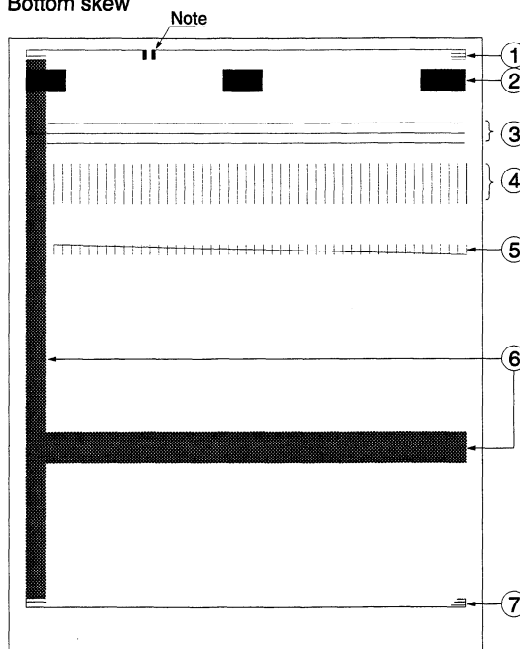
3. 6. Signal send mode

The mode is used to send various signals to the circuit during FAX communication. Every push of START key sends a signal in the following sequence. Moreover, the signal sound is also output to the speaker when the line monitor of the soft switch is on.

[1] No signal (CML signal turned on)
[2] 14400BPS (V.33)
[3] 12000BPS (V.33)
[4] 14400BPS (V.17)
[5] 12000BPS (V.17)
[6] 9600BPS (V.17)
[7] 7200BPS (V.17)
[8] 9600BPS (V.29)
[9] 7200BPS (V.29)
[10] 4800BPS (V27 ter)
[11] 2400BPS (V27 ter)
[12] 300BPS (FLAG)
[13] 2100Hz(CED)
[14] 1100Hz(CNG)

3. 7. Memory clear mode

This mode is used to clear the backup memory and reset to the default settings.

3. 8. Shading mode

This mode is used to store the shading waveform according to the specified shading document.

3. 9. All black copy mode

This mode is used to check the state of the printing head and intentionally overheat it. Press STOP key for the end.

3. 10. Auto feeder mode

This mode is used to check the auto feed function by inserting and discharging the document. In this mode, the feed of the document will be automatically tested if the document is set. Moreover, the number of fed documents will be counted and be displayed on LCD.

3. 11. Entry data send

This mode is used to send the registered data to the remote machine and make the remote machine copy the registered information. When this mode is used for sending, the remote machine must be set to the entry data receive mode.

This information to be sent is as follows.

1. TELEPHONE NUMBER LIST

2. PASSCOD LIST

3. OPTION LIST

4. ANTI JUNK LIST

5. GROUP LIST

6. PRINT SET UP LIST

7. SOFT SW LIST

3. 12. Entry data receive

This mode is used to receive the registered data which is sent from the remote machine and to register the received data in the machine.When this mode is used to receive the information, the remote machine must be set to the entry data send mode

The information to be sent is as follows.

1. TELEPHONE NUMBER LIST

2. PASSCOD LIST

3. OPTION LIST

4. ANTI JUNK LIST

5. GROUP LIST

6. PRINT SET UP LIST

7. SOFT SW LIST

3. 13. OOI sensor test

This mode is used to check whether the ink sensor can detect nonexistence of ink correctly.

3. 14. DOT COUNT READ

The black, cyan, magenta and yellow ink consumption counter value is indicated.

4. How to make soft switch setting

To enter the soft switch mode, make the following key entries in sequence.

```
Press  FUNCTION  9  *  8  #  7  START          START
```

⇩

DATA No.   1 2 3 4 5 6 7 8

```
S F T  SW - 1  =  0  0  0  0  0  0  0  0
```
                                                    Press FUNCTION key.

```
S F T  SW - 1  =  1  0  0  0  0  0  0  0
```
                                                    Press # key.

```
S F T  SW - 1  =  1  0  0  0  0  0  0  0
```
                                                    Press * key.

```
S F T  SW - 1  =  1  0  0  0  0  0  0  0
```
                                                    Bit1 - 8 are set.

```
S F T  SW - 1  =  1  0  0  0  0  0  0  0
```

                                                    Press START key during setting.

```
S F T  SW - 1  =  0  0  0  0  0  0  0  0
```
                                                    Soft SW-1- SW-35 are set.

```
S F T  SW - 35 =  0  0  0  0  0  0  0  0
```

• To finish the settings halfway between SW-1 and SW-35, press the STOP key. In this case, the setting being done to the SW No. on display will be nullified while settings done to the preceding SW Nos. remain in effect.

• When the COPY key is pressed, the contents of soft switches are printed.

```
The soft switch mode is terminated.
```

5. Soft switch description

• **Soft switch**

SW NO.	DATA NO.	ITEM	Switch setting and function 1			0		Initial setting	Remarks
SW–1	1	Recall interval						0	OPTION
	2		Binary input 8 4 2 1					1	(1~15)
	3		No. = 1 2 3 4					0	
	4		0 1 0 1 (5x60sec=5min)					1	
	5	Recall times						0	OPTION
	6		Binary input 8 4 2 1					0	(0~10)
	7		No. = 5 6 7 8					1	
	8		0 0 1 0 (Twice)					0	
SW–2	1	Dial mode	Pulse			Tone		0	OPTION
	2	Reception mode	Auto			Manual		1	Recep key
	3	ECM mode	No			Yes		0	OPTION
	4	CNG detection in Standby mode	No			Yes		0	OPTION
	5	Polling Security	On			Off		0	FUNC+3
	6	Automatic Cover Sheet	No			Yes		1	OPTION
	7	Junk fax function in manual reception	Yes			No		0	
	8	Anti Junk fax function	Yes			No		0	OPTION
SW–3	1	Number of rings for auto receive						0	OPTION
	2		Binary input 8 4 2 1					1	(1~5)
	3		No. = 1 2 3 4					0	
	4		0 1 0 0 (4 times)					0	
	5	Automatic switching manual to auto						0	
	6	receive mode	Binary input 8 4 2 1					0	
	7	(0:OFF)	No. = 5 6 7 8					0	
	8		0 0 0 0 (Off)					0	

SW NO.	DATA NO.	ITEM	Switch setting and function						Initial setting	Remarks
SW–4		Communication results printout (Transaction report)		Error	Err/Tmr/Mem	Send only	No print	Always		OPTION
	1		No.1	0	0	0	1	1	0	
	2		No.2	0	0	1	0	1	0	
	3		No.3	1	0	0	0	0	1	
	4	Delay timer before line connect in auto dial	3sec			0sec			0	
		Delay timer of after line connect in auto dial		3.6sec	3.0sec	1.7sec	3.0sec			
	5		No.5	1	1	0	0		0	
	6		No.6	1	0	1	0		1	
		Number of CNG detect (STAND-BY mode)		1pulse	2pulses	3pulses	4pulses			
	7		No.7	0	0	1	1		0	
	8		No.8	0	1	0	1		1	
SW–5	1	Time format	24-hours			12-hours			0	
	2	Date format	Month-Day-Year			Day-Month-Year			1	
	3	Sender's information transmit	Off			On			0	
	4	Footer Print	On			Off			0	
	5	Reserved	—			—			0	
	6	Substitute reception	Off			On			0	
	7	Substitute reception conditions	Reception disable without TSI			Reception enable without TSI			0	
	8	CSI transmission	Off			On			0	

SW NO.	DATA NO.	ITEM	Switch setting and function (1)	Switch setting and function (0)	Initial setting	Remarks
SW-6	1	H2 mode	No	Yes	0	
	2	MH fixed	Yes	No (depend on remote machine)	0	
	3	Reserved	—	—	0	
	4	Reserved	—	—	0	
	5	Modem speed (DCS data reception speed)				
	6					
	7					
	8					

Modem speed (DCS data reception speed):

	V.33 14400	V.33 12000
No.5	0	0
No.6	1	1
No.7	0	1
No.8	0	0

	V.17 14400	V.17 12000	V.17 9600	V.17 7200	V.29 9600	V.29 7200	V.27ter 4800	V.27ter 2400	Initial setting
No.5	1	1	1	1	0	0	0	0	1
No.6	0	0	0	0	0	0	0	0	0
No.7	0	1	0	1	0	1	1	0	0
No.8	0	0	1	1	1	1	0	0	0

SW NO.	DATA NO.	ITEM	Switch setting and function (1)	Switch setting and function (0)	Initial setting	Remarks
SW-7	1	Reception speed fixed			0	When 14400BPS modem used, setting to 14400bps is ignored.
	2				0	

Reception speed fixed:

	NO	V.17-14400PS	V.29-9600BPS	V.27ter-4800BPS	Initial setting
No.1	0	1	0	1	0
No.2	0	1	1	0	0

SW NO.	DATA NO.	ITEM	Switch setting and function (1)	Switch setting and function (0)	Initial setting	Remarks
SW-7	3	DIS receive acknowledgement during G3 transmission	Twice	0	0	
	4	Non modulated carrier for V29 transmission	On	Off	0	
	5	EOL detect timer	25 sec	13sec	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	0	
	8	Length limitation of copy/send/receive	No limit	Copy/Send:1m Receive:1.5m	0	
SW-8	1	Digital line equalization setting (Reception)			0	
	2				1	

Digital line equalization setting (Reception):

	0Km	1.8Km	3.6Km	7.2Km	Initial setting
No.1	0	0	1	1	0
No.2	0	1	0	1	1

SW NO.	DATA NO.	ITEM	Switch setting and function (1)	Switch setting and function (0)	Initial setting	Remarks
SW-8	3	Dial pausing(sec/pause)	2sec	4sec	1	
	4	Signal transmission level			0	
	5		Binary input 16 8 4 2 1		1	
	6		No. = 4 5 6 7 8		0	
	7		0 1 0 0 0 (-8dBm)		0	
	8				0	
SW-9	1	CED tone signal interval			0	
	2				0	

CED tone signal interval:

	1000ms	750ms	500ms	75ms	Initial setting
No.1	1	1	0	0	0
No.2	1	0	1	0	0

SW NO.	DATA NO.	ITEM	Switch setting and function (1)	Switch setting and function (0)	Initial setting	Remarks
SW-9	3	Equalizer freeze control(MODEM)	On	Off	0	
	4	Equalizer freeze conditions	All	7200bps	0	
	5	CED detection time	500ms	1000ms	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	0	
	8	Busy tone detection (after auto dial)	Yes	No	0	U : 0 / C : 1
SW-10	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	CI off detection timer (Distinctive ring setting off only)			0	
	4				1	

CI off detection timer (Distinctive ring setting off only):

	1200ms	1000ms	700ms	350ms	Initial setting
No.3	0	1	0	1	0
No.4	0	0	1	1	1

Distinctive ringing setting (Factory setting : OFF) — OPTION RING5/RING6: CANADA ONLY

	OFF	STANDARD	RING1	RING2	RING3	RING4	RING5	Initial setting
No.5	0	0	1	0	1	0	1	0
No.6	0	0	0	1	1	0	0	0
No.7	0	0	0	0	0	1	1	0
No.8	0	1	0	0	0	0	0	0

SW NO.	DATA NO.	ITEM	Switch setting and function				Initial setting	Remarks
			1		0			
SW − 11		END Buzzer		3sec	1sec	No BEEP	No BEEP		
	1		No.1	0	0	1	1	0	
	2		No.2	0	1	0	1	0	
	3	Communication error treatment in RTN sending mode (reception)	No communication error		Communication error		0	
	4	CNG transmission after auto dialing	No		Yes		0	
	5	Error criterion	10~20%		5~10%		0	
	6	Pulse to Tone change by ✕ key	On		Off		0	
	7	CNG transmission in manual trasmission.	No		Yes		0	
	8	Reserved	—		—		0	
SW − 12	1	DTMF signal transmission level (Low)					0	
	2		Binary input 16 8 4 2 1				1	
	3		No. = 1 2 3 4 5				0	
	4		0 1 0 1 0 (−5dBm)				1	
	5						0	
	6	not used	—		—		0	
	7	not used	—		—		0	
	8	not used	—		—		0	
SW − 13	1	DTMF signal transmission level (High)					0	
	2		Binary input 16 8 4 2 1				0	
	3		No. = 1 2 3 4 5				1	
	4		0 0 1 1 1 (−3.5dBm)				1	
	5						1	
	6	not used	—		—		0	
	7	not used	—		—		0	
	8	not used	—		—		0	
SW − 14	1	Reserved	—		—		0	
	2	Reserved	—		—		0	
	3	Reserved	—		—		0	
	4	Reserved	—		—		1	
	5	Reserved	—		—		1	
	6	Reserved	—		—		0	
	7	Reserved	—		—		0	
	8	Reserved	—		—		0	
SW − 15	1	Reserved	—		—		0	
	2	Reserved	—		—		0	
	3	Reserved	—		—		0	
	4	Reserved	—		—		0	
	5	Reserved	—		—		0	
	6	Reserved	—		—		0	
	7	Reserved	—		—		0	
	8	Reserved	—		—		0	
SW − 16	1	Reserved	—		—		1	
	2	Reserved	—		—		0	
	3	Reserved	—		—		0	
	4	Reserved	—		—		0	
	5	Reserved	—		—		1	
	6	Reserved	—		—		0	
	7	Reserved	—		—		0	
	8	Reserved	—		—		0	

SW NO.	DATA NO.	ITEM	Switch setting and function (1)		(0)			Initial setting	Remarks
SW 17		Speaker volume (3stages)		HIGH	HIGH	MIDDLE	LOW		
	1		NO.1	0	0	1	1	1	
	2		NO.2	0	1	0	1	0	
		Hand-set receiver volume (2stages)		HIGH	HIGH	LOW	LOW		
	3		NO.3	0	0	1	1	1	
	4		NO.4	0	1	0	1	0	
		Ringer volume (4stages)		Off	HIGH	MIDDLE	LOW		
	5		NO.5	0	0	1	1	1	
	6		NO.6	0	1	0	1	0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	
SW 18	1	PC I/F mode	Yes		No			1	
	2	Auto reception in PC I/F mode	FAX		PC			1	FUNC+#
	3	Summer time setting	No		Yes			1	FUNC+3
	4	Sender's phone number setting	Cannot change		Change allowed			0	
	5	Polling key	Yes		No			0	OPTION
	6	Activity report print	Automatic printout		No printout when memory full			0	OPTION
	7	Total communication hours and pages print	Off		On			0	
	8	Line density selecton	Fine		Standard			0	OPTION
SW 19		Density adjustment (when Fine/STD mode)		Normal	Faint	Deep	Deep(when Dark Mode)		
	1		No.1	0	0	1	1	0	
	2		No.2	0	1	0	1	0	
		Density adjustment (when Half-tone mode)		Normal	Faint	Deep	Deep(when Dark Mode)		
	3		No.3	0	0	1	1	0	
	4		No.4	0	1	0	1	0	
	5	Reserved	—		—			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	
SW 20		Paper set size		LETTER	LEGAL	A4	Letter		FUNC+6
	1		No.1	0	0	1	1	0	
	2		No.2	0	1	0	1	0	
		Media type		Plain	Coated	—	—	—	FUNC+6
	3		No.3	0	0	—	—	0	
	4		No.4	0	0	—	—	0	
	5		No.5	0	1	—	—	0	
		Print quality when fax printing		—	Normal	Fast Draft	Normal		FUNC+6
	6		No.6	—	0	1	1	0	
	7		No.7	—	1	0	1	1	
	8	Reserved	—		—			0	
SW 21	1	Reserved	—		—			0	
	2	Reserved	—		—			0	
	3	Reserved	—		—			0	
	4	Reserved	—		—			0	
	5	Reserved	—		—			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			1	
	8	Reserved	—		—			0	
SW 22	1	Reserved	—		—			0	
	2	Reserved	—		—			1	
	3	Half tone Copy Resolution	200DPIX200DPI		203DPIX196DPI			0	
	4	Reserved	—		—			0	
	5	Reserved	—		—			0	
		Copy Ratio for B/W copy		AUTO		100%			FUNC+6
	6		No.6	0		0		0	
	7		No.7	0		0		1	
	8		No.8	0		1		1	

SW NO.	DATA NO.	ITEM	Switch setting and function 1		Switch setting and function 0					Initial setting	Remarks
SW-23	1	Reserved	—		—					0	
	2	Reserved	—		—					0	
	3	Reserved	—		—					0	
	4	Reserved	—		—					0	
	5	Reserved	—		—					0	
	6	Reserved	—		—					0	
	7	Reserved	—		—					1	
	8	Reserved	—		—					0	
SW-24	1	Align cartridge (1~30) for color cartridge	Binary input 16 8 4 2 1							0	FUNC+6
	2		No. = 1 2 3 4 5							1	
	3		0 1 1 1 1 (15)							1	
	4									1	
	5									1	
	6	FAX printing with paper from manual feeder	Yes		No					0	
	7	FAX printing with color cartridge	Yes		No					0	
	8	FAX printing when low ink detected	Yes		No					0	
SW-25	1	Align cartridge (1~30) for black cartridge	Binary input 16 8 4 2 1							0	FUNC+6
	2		No. = 1 2 3 4 5							1	
	3		0 1 1 1 1 (15)							1	
	4									1	
	5									1	
	6	Cartridge alarm	Off		On					0	
	7	Low ink detection in black cartridge	Yes		No					1	
	8	Low ink detection in color cartridge	Yes		No					0	
SW-26	1	Automatic Reduce of receive	Auto		100%					1	FUNC+6
	2	Cut off mode (COPY mode)	Continue		Cut-off					0	FUNC+6
	3	Reserved	—		—					0	
	4	IrDA selection		PCprint	ZAURUS print	File Transfer	DG camera	Off		0	OPTION
			No.4 0		0	0	0	1			
	5		No.5 0		0	1	1	0		0	
	6		No.6 0		1	0	1	0		0	
	7	Reserved	—		—					0	
	8	Reserved	—		—					0	
SW-27		DTMF detection time		50ms	80ms	100ms	120ms				
	1		No.1 0		0	1	1			0	
	2		No.2 0		1	0	1			0	
	3	Protection of remote reception (5⚹⚹) detect	Yes		No					0	OPTION
	4	Remote reception with GE telephone	Compatible		Not compatible					1	
	5	Remote operation code figures by external								0	OPTION
	6	tel (0~9)	Binary input 8 4 2 1							1	
	7		No. = 5 6 7 8 (Data No.)							0	
	8		Ex 0 1 0 1							1	
SW-28	1	Busy tone detection ON/OFF time (Shorter duration)	350ms		150ms					0	
		Busy tone detection ON/OFF time (Longer duration)		650ms	900ms	2700ms	900ms				
	2		No.2 0		0	1	1			0	
	3		No.3 0		1	0	1			1	
	4	Busy tone continuous sound detect time	5sec		10sec					1	
	5	Busy tone detect continuation sound detect	No		Yes					0	
	6	Busy tone detect intermittent sound detect	No		Yes					0	
		Busy tone detection pulse number		2pulses	4pulses	6pulses	10pulses				
	7		No.7 0		0	1	1			0	
	8		No.8 0		1	0	1			1	

SW NO.	DATA NO.	ITEM	Switch setting and function 1	Switch setting and function 0	Initial setting	Remarks
SW-29	1	TAD connect	Yes	No	0	OPTION
	2	Fax switching when A.M. full	Yes	No	0	OPTION
	3	Section time of quiet detection			0	
	4				1	
	5	Number of CNG detect (AM mode)			0	
	6				1	
	7	Reserved	—	—	0	
	8	Reserved	—	—	0	

Section time of quiet detection:

	30sec	40sec	50sec	60sec
No.3	0	0	1	1
No.4	0	1	0	1

Number of CNG detect (AM mode):

	1pulse	2pulses	3pulses	4pulses
No.5	0	0	1	1
No.6	0	1	0	1

SW NO.	DATA NO.	ITEM	Switch setting and function	Initial setting	Remarks
SW-30	1	Quiet detect time		0	OPTION
	2		Binary input 8 4 2 1	1	
	3		No. = 1 2 3 4	0	
	4		0 1 0 0 (4sec)	0	
	5	Quiet detect start timing		0	
	6		Binary input 8 4 2 1	1	
	7		No. = 5 6 7 8	0	
	8		0 1 0 1 (5sec)	1	

SW NO.	DATA NO.	ITEM	Switch setting and function 1	Switch setting and function 0	Initial setting	Remarks
SW-31 ~ 33	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	Reserved	—	—	0	
	4	Reserved	—	—	0	
	5	Reserved	—	—	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	0	
	8	Reserved	—	—	0	
SW-34	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	Reserved	—	—	0	
	4	Reserved	—	—	0	
	5	Reserved	—	—	0	
	6	Reserved	—	—	1	
	7	Reserved	—	—	0	
	8	Reserved	—	—	0	
SW-35	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	Reserved	—	—	0	
	4	Reserved	—	—	1	
	5	Reserved	—	—	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	0	
	8	Reserved	—	—	0	
SW-36	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	Reserved	—	—	0	
	4	Reserved	—	—	0	
	5	Reserved	—	—	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	0	
	8	Reserved	—	—	0	

• Soft switch function description

SW1 No. 1 ~ No. 4 Recall interval

Choice is made for a recall interval for speed and rapid dial-numbers. Use a binary number to program this. If set to 0 accidentally, 1 will be assumed.

SW1 No. 5 ~ No. 8 Recall times

Choice is made as to how many recall attempts should be made. Use a binary number to program this.

SW2 No. 1 Dial mode

Switch the type according to the telephone circuit connected to the facsimile.
    1 : PULSE DIAL
    0 : TONE DIAL

SW2 No. 2 Reception mode

Auto/manual receiving mode is set.

SW2 No. 3 ECM mode

Used to determine ECM mode function. Refer to the following table.

SW2- No. 3 ECM MODE		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
SW6- No. 1 MH FIXED		0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
Compression method	ECM MMR mode	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
	ECM MR mode	Yes	No	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No
	ECM MMH mode	Yes	Yes	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No
	ECM MH mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
	MR Mode	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	MH Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

(Depending on remote machine)

SW2 No. 4 CNG detection in Standby mode

When setting to "1", the CNG signal detection function during standby stops.

SW2 No. 5 Polling Security

This switch is employed to enable or disable the polling operation using the ID code verification function, in order to prevent unauthorized polling operation.

SW2 No. 6 Automatic Cover Sheet

When "0" (=YES) is selected, the cover sheet is automatically sent after transmission of the original to notify the receiver of the number of original sheets transmitted.

SW2 No. 7 Junk fax function in manual reception

It is set whether Junk fax is functioned in the manual receiving mode or not.

SW2 No. 8 Anti Junk fax function

This function is used to receive data from a specific remote machine (station registered in entry mode). It is the function that refused a reception in the case that TSI of remote machine mached with fax number of the station registered.
    0 : No
    1 : Yes

SW3 No. 1 ~ No. 4 Number of rings for auto receive
(0 : No ring receive)

When the machine is set in the auto receive mode, the number of rings before answering can be selected. It may be set from one to nine rings using a binary number. If the soft switch was set to 1, a direct connection is made to the facsimile. If a facsimile. If it was set to 0 accidentally, receive ring is set to 1.

SW3 No. 5 ~ No. 8 Automatic switching manual to auto receive mode (0 : OFF)

Choice is made after how many rings in the manual receive mode it should be automatically change to auto answer mode or remain in the manual receive mode. Entering the binary number 0 forces the machine to remain in the manual answer mode. If a number between 1 and 9 is entered, the machine will go into the answer mode after the given number of rings. However, it can be used as an ordinary telephone if the handset is taken off the hook before this programmed number is finished.

SW4 No. 1 ~ No. 3 Communication results printout (Transaction report)

Every communication, the result can be output. As usual, it is set to print the timer sending communication error alone. If No.1 : 0 No.2 : 0 No.3 : 1 are set, printing is always on (printed ever if it is normally ended).
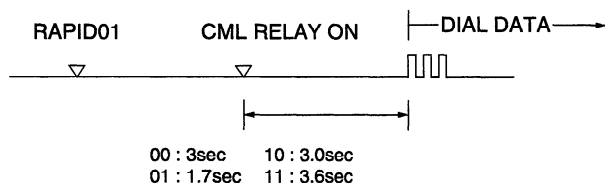   000 : Error, timer and memory sending/receiving
    010 : Sending
    110 : Continuous printing
    100 : Not printed
    001 : Communication error

SW4 No. 4 Delay timer before line connect in auto dial

Delay time between the dial key input and line connection under the auto dial mode.

    0 : 0sec
    1 : 3sec
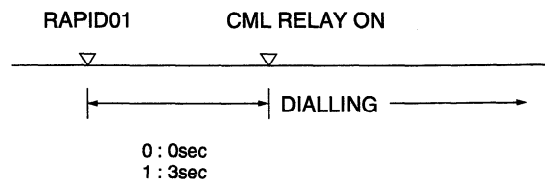
SW4 No. 5, No. 6 Delay timer of after line connect in auto dial

Delay time between the line connection and dial data output under the auto dial mode.

```
RAPID01        CML RELAY ON      ├─DIAL DATA──▶
    ▽              ▽                 ⊓⊓⊓
───────────────────────────────────┘ └┘ └┘ └──
               ├───────────────────┤

        00 : 3sec    10 : 3.0sec
        01 : 1.7sec  11 : 3.6sec
```

SW4 No. 7, No. 8 Number of CNG detect (STAND-BY mode)

Used for detection of CNG in 1 to 4 pulses.

SW5 No. 1 Date format

Used to select date display/print formats.

SW5 No. 2 Time format

When this switch is set to "0", time is displayed in 12-hour system.
When set to "1",24-hour system.

SW5 No. 3 Sender's information transmit

When it is set at 0, sender's name, sending page number and so on are automatically printed in the recording paper on the receiving side during transmission. Thus, the sender can be known on the receiving side.
    0 : Applied.
    1 : Not applide.

SW5 No. 4 Footer print

When set to "1", the date of reception, the sender machine No., and the page No. are automatically recorded at the end of reception.

SW5 No. 5 Reserved

Set to "0".

SW5 No. 6 Substitute reception

Selection of substitute reception in the case of recording paper exhausted or paper jam. If set to "NO", auto receive is disabled even when the receive memory is ready to receive.
Substitute reception is not performed even during receive operation.

SW5 No. 7 Substitute reception conditions

Selection of substitute reception according to existence of TEL number from transmitting side. Initial setting allows substitute reception without CSI. If set to "no", the receiver cannot receive any documents.

SW5 No. 8 CSI transmission

CSI signal contains the sender's phone number registered in the machine. If this switch is set to "1", no sender's name will be printed at the receiving side.

SW6 No. 1 H2 mode

Used to determine H2 mode (15 sec transmission mode). When set to OFF, H2 mode is inhibited even though the transmitting machine has H2 mode.

SW6 No. 2 MH fixed

Normally set to allow automatic selection of MH and MR mode according to the remote side.
If set to 1, the mode is fixed to MH and is useful if the remote side is a MH only unit ; or a lot of image distortion is met due to a bad line.

SW6 No. 3, No. 4 Reserved

Set to "0".

SW6 No. 5 ~ No. 8 Modem speed (DCS data reception speed)

Used to determine the initial modem speed. The default is 14400BPS (V17). It may be necessary to program it to a slower speed when frequent line fallback is encountered, in order to save the time required for the fallback procedure.

SW7 No. 1, No. 2 Reception speed fixed

The transferable speed of modem in the receiving mode is set.

SW7 No. 3 DIS receive acknowledgement during G3 transmission

Used to make a choice of whether reception of NSF (DIS) is acknowledged after receiving two NSFs (DISs) or receiving one NSF (two DISs). It may be usefull for overseas communication to avoid an echo suppression problem, if set to 1.

SW7 No. 4 Non modulated carrier in V29 transmission

Though transmission of a non-modulated carrier is not required for transmission by the V29 modem according to the CCITT Recommendation, it may be permitted to send a non-modulated carrier before the image signal to avoid an echo suppression problem.
It may be usefull for overseas communication to avoid an echo suppression problem, if set to 1.

SW7 No. 5 EOL detect timer

Used to make a choice of whether to use the 25-second or 13-second timer for detection of End of line.
This is effective to override communication failures with some facsimile models that have longer End of line detection.

SW7 No. 6, No. 7 Reserved

Set to "0".

SW7 No. 8 Length limitation of copy/send/receive

Used to set the maximum page length.
To avoid possible paper jam, the page length is normally limited to 1 meter for copy or transmit, and 1.5 meters for receive.
It is possible to set it to "No limit" to transmit a long document, such as a computer print form, etc. (In this case, the receiver must also be set to no limit.)

SW8 No. 1 , No. 2 Digital line equalization setting (Reception)

Needs to be set to the line characteristics. A guide line is the distance between the exchange office and the telephone terminal. Since it needs not to be set in the normal case since it has been set to 1.8Km, it should be corrected in case communication failures occur frequently.

SW8 No. 3 Dialing pausing (sec/pause)

Pauses can be inserted between telephone numbers of direct dial connection. Selection of 4 sec or 2 sec pause is available.
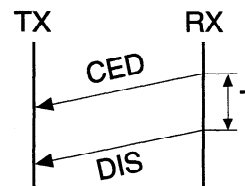
SW8 No. 4 ~ No. 8 Signal transmission level

Used to control the signal transmission level in the range of-0dB to-31dB. The factory setting is at-10dB (MODEM output).

SW9 No. 1, No. 2 CED tone signal interval

For international communication, the 2100Hz CED tone may act as an echo suppression switch, causing a communication problem.
Though SW9 No.1 , No.2 are normally set to 0, it should be changed this time between the CED tone signal to eliminate the communication problem caused by echo.

```
        TX              RX
         │               │
         │    CED        │ ▲
         │◄──────────────│ │ T
         │               │ ▼
         │    DIS        │
         │◄──────────────│
         │               │
```

SW9 No. 3 Equalizer freeze control (MODEM)

This switch is used to perform reception operation by fixing the equalizer control of modem for the line which is always in unfavorable state and picture cannnot be received.Usually, the control is executed according to the state of line where the equalizer setting is changed always.

SW9 No. 4 Equalizer freeze conditions

Setting which specifies SW9 No.3 control only in condition of 7200bps modem speed.

SW9 No. 5 CED detection time

The detection time of the CED signal from the called side in the auto calling mode is set.

SW9 No. 6, No. 7 Reserved

Set to "0".

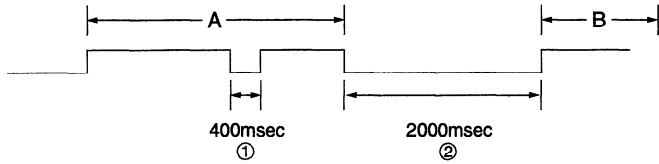## SW9 No. 8 Busy tone detection (after auto dial)

Use to set busy tone detection in auto dialing.

SW10 No. 1, No. 2 Reserved

Set to "0".

SW10 No. 3, No. 4 CI off detection timer (Distinctive ring setting off only)

Set the minimum time period of CI signal interruption which affords to be judged as a CI OFF section.

400msec
①

2000msec
②

SW10 No. 5 ~ No. 8 Distinctive ringing setting (Factory setting:OFF)

When the ringing setting is turned off, all of the CI signal are received. When any of the standard, and ring patterns 1 through 3 is selected for the ringing setting, only the selected CI signal is received.

CI signal patterns
The CI signal patterns consists of the standard pattern, and ring patterns 1 through7. The standard pattern is the conventional one.

SW11 No. 1 , No. 2 End buzzer

The sounding length of the buzzer for normal end of operation is set.

SW11 No. 3 Communication error treatment in RTN sending mode (reception)

The operation is set when the RTN signal is received in the G3 transmission mode.

SW11 No. 4 CNG transmission after auto dialing

When set to "0", this model allows CNG transmission by pressing the Start key in the key pad dialing mode. When set to "1", CNG transmission in the key pad dialing mode cannot be performed. In either case. CNG transmission can be performed in the auto dial mode.

SW11 No. 5 Error criterion

Used to select error criterion for sending back RNT when receiving image data.

SW11 No. 6 Pulse to Tone change by ✕ key

When setting to 1, the mode is changed by pressing the ✕ key from the pulse dial mode to the tone dial mode.

SW11 No. 7 CNG transmission in manual transmission

In case of CCITT there is no need to send the CNG signal in manual transmission mode .This setting allows this signal to be sent in case of manual transmission so as to inform the other party's machine that the machine is FAX.

SW11 No. 8 Reserved

Set to "0".

SW12 No. 1 ~ No. 5 DTMF signal transmission level (Low)

The transmission level of DTMF signal is adjusted. (lower frequency)

00000 : 0 dBm
↓
11111 : -15.5 dBm

SW12 No. 6 ~ No. 8 not used

Set to "0".

SW13 No. 1 ~ No. 5 DTMF signal transmission level (High)

The transmission level of DTMF signal is adjusted. (higher frequency)

00000 : 0 dBm
↓
11111 : -15.5 dBm

SW13 No. 6 ~ No. 8 not used

Set to "0".

SW14 No. 1 ~ No. 3 Reserved

Set to "0".

SW14 No. 4 , No. 5 Reserved

Set to "1".

SW14 No. 6 ~ No. 8 Reserved

Set to "0".

SW15 No. 1 ~ No. 8 Reserved

Set to "0".

SW16 No. 1 Reserved

Set to "1".

SW16 No. 2 ~ No. 4 Reserved

Set to "0".

SW16 No. 5 Reserved

Set to "1".

SW16 No. 6 ~ No. 8 Reserved

Set to "0".

SW17 No. 1, No. 2 Speaker volume (3stages)

Speaker volume:
The sound volume of the speaker in the on-hook mode is set.

SW17 No. 3, No. 4 Hand-set receiver volume (2stages)

Handset volume:
The volume of sound heard from the receiver is set.

SW17 No. 5, No. 6 Ringer volume (4stages)

Ringer volume:
The calling sound volume of CI signal receiving is set.

SW17 No. 7, No. 8 Reserved

Set to "0".

SW18 No. 1 PC I/F mode

PC I/F mode:
The interface with the personal computer is selected.

SW18 No. 2 Auto reception in PC I/F mode

Automatic receiving of I/F mode:
Which receives the call is determined.

SW18 No. 3 Summer time setting

This is used to set YES/NO of automatic clock adjustment for summer time.

SW18 No. 4 Sender's phone number setting

Used to make a choice of whether the registered sender's phone number can be changed or not. If the switch is set to "1", new registration of the sender's phone number is disabled to prevent accidental wrong input.

SW18 No. 5 Polling key

If this switch is set to 1, the last of Rapid key works as polling key.

SW18 No. 6 Activity report print
This soft switch is used to select : whether or not to print out the activity report when the memory is full. An activity report can be printed when the following key entry command is made.

"FUNCTION", "2", "#", "START"

After producing the activity report, all the data in the memory will be cleared.
When the switch function is set to "0" (no), the data in the memory will be deleted from the oldest as it reaches the maximum memory capacity.

SW18 No. 7 Total communication hours and pages print

Used to make a choice of whether the total communication time and pages are recorded in the activity report.

SW18 No. 8 Line density selection
Used to set the transmission mode which is automatically selected when the Resolution key is not pressed. In the copy mode, however, the fine mode is automatically selected unless the Resolution key is manually set to another mode.

SW19 No. 1, No. 2 Density adjustment (when Fine/STD mode)

This is used for density adjustment in fine/standard mode. Adjust the density according to that of frequently used original.
Set to "Dark" for darker reading (either in the auto or the dark mode) of light original. Set to "Light" for lighter reading (either in the auto or the dark mode) of dark original.
Set to "Dark only in dark mode" for darker reading only in the dark mode.

SW19 No. 3, No. 4 Density adjustment (when Half-tone mode)

This is used for density adjustment in the half tone.

SW19 No. 5 ~ No. 8 Reserved

Set to "0".

SW20 No. 1, No. 2 Paper set size

Set the size of recording paper for reception and list print.

SW20 No. 3~ No. 5 Media type

Set the type of recording paper for reception and list print.

SW20 No. 6 , No.7 Print quality when fax printing

Set the printing method for reception and list print.

SW20 No. 8 Reserved

Set to "0".

SW21 No. 1 ~ No. 6 Reserved

Set to "0".

SW21 No. 7 Reserved

Set to "1".

SW21 No. 8 Reserved

Set to "0".

SW22 No. 1 Reserved

Set to "0".

SW22 No. 2 Reserved

Set to "1".

SW22 No. 3 Half tone copy resolution

The image resolution conversion rate is set in the copy mode.
0 : 203 DPI X 196 DPI (1.53 times X 1.47 times)
1 : 200 DPI X 200 DPI (1.50 times X 1.50 times)

SW22 No. 4, No. 5 Reserved

Set to "0".

SW22 No. 6 ~ No.8 Copy Ratio for B/W copy

Set the magnification when "PRESET" is selected in copy mode.

SW23 No. 1 ~ No. 6 Reserved

Set to "0".

SW23 No. 7 Reserved

Set to "1".

SW23 No. 8 Reserved

Set to "0".

SW24 No. 1 ~ No. 5 Align cartridge (1~30) for color cartridge

After the color cartridge has been mounted press

 "FUNCTION", "6", "✂", "✂", "✂", "START"

to print Bidirectional Alignment Pattern.
On the printed test page, locate the number under the Bidirectional Alignment pattern that comes closest to forming a perfectly straight line.

SW24 No. 6 Fax printing with paper from manual feeder

To print the received picture in hand paper feed mode, set "1".

SW24 No. 7 Fax printing with color cartridge

To print the received picture with the color cartridge set "1".

SW24 No. 8 Fax printing when low ink detected

To print the received picture in "Low Ink" state, set "1'.

SW25 No. 1 ~ No. 5 Align cartridge (1~30) for black cartridge

After the black cartridge has been mounted press

 "FUNCTION", "6", "✂", "✂", "✂", "START"

to print Bidirectional Alignment Pattern.
On the printed test page, locate the number under the Bidirectional Alignment pattern that comes closest to forming a perfectly straight line.

SW25 No. 6 Cartridge alarm

Set existence/nonexistence of alarm tone alarming the failure of return of cartridge to the home position.

SW25 No. 7 Low ink detection in black cartridge

Set detection/nondetection of black ink "Low ink".

SW25 No. 8 Low ink detection in color cartridge

Set detection/nondetection of color ink "Low ink".

SW26 No. 1 Automatic reduce of receive

If set to 1, it is reduced automatically when receiving.

SW26 No. 2 Cut off mode (COPY mode)

Whether the excessive part is printed on the next recording paper or discarded is selected to copy a document which is longer than the recording paper.

SW26 No. 3 Reserved

Set to "0".

SW26 No. 4 ~ No. 6 IrDA selection

Set the other party of Ir communication.

SW26 No. 7, No. 8 Reserved

Set to "0".

SW27 No. 1, No. 2 DTMF detection time

Used to set detect time of DTMF (Dual Tone Multi Frequency) used in remote reception (5 ✂ ✂).
The longer the detect time is, the less the error detection is caused by noises.

SW27 No. 3 Protection of remote reception (5 ✂ ✂) detect

Used to set the function of remote reception (5 ✂ ✂). When set to "1", the remote reception functon is disabled.

SW27 No. 4 Remote reception with GE telephone

(Corresponding to TEL made by GE) P.B.X.
"1": Compatible with TEL mode by GE
"0": Not compatible
  • When sending (5 ✂ ✂) for remote reception with a GE manufactured telephone remote reception may not take place because of special specifications in their DTMF.
    To overcome this, a soft SW is provided to change the modem setting to allow for remote reception.
  • If this soft SW is set to "1", other telephone sets may be adversely affected.

SW27 No. 5 ~ No. 8 Remote operation code figures by external tel (0~9)

Remote operation codes can be changes from 0 through 9. If set to greater than 9, it defaults to 9. The "5 ✂ ✂" is not changed.
Ex-7✂ ✂ (Default : 5 ✂ ✂).

SW28 No. 1 Busy tone detection ON/OFF time (Shorter duration)

The initial value of detection is set according to electric condition.
The set value is changed according to the local switch board. (Erroneous detection of sound is reduced.)
Normally the upper limit is set to 2700msec. and the lower limit to 150msec.
If erroneous detection is caused by sound, etc., adjust the detection range.
The lower limit can be set in the range of 350msec to 150msec.

SW28 No. 2, No. 3 Busy tone detection ON/OFF time (Longer duration)

Similarly to SW-28 No.1, the set value can be varied.
The upper limit can be set in the range of 650msec to 2700msec.

SW28 No. 4 Busy tone continuous sound detect time

Set detecting time busy tone for 5 seconds or as is PTT.

SW28 No. 5 Busy tone detect continuation sound detect

Used to select detection of the continuous sound of certain frequency.

SW28 No. 6 Busy tone detect intermittent sound detect

Used to select detection of the intermittent sound of certain frequency.

SW28 No. 7, No. 8 Busy tone detection pulse number

Used to set detection of Busy tone intermittent sounds.

SW29 No. 1 TAD connect

When connecting the answering machine to the extension telephone jack.
Set to "1".

SW29 No. 2 Fax switching when A.M.full

If the answering machine's memory (tape) is full and there is no response, the machine automatically switches to Fax reception.

SW29 No. 3, No. 4 Section time of quiet detection

The switch which sets the time from the start of detection function to the end of the function.

SW29 No. 5, No. 6 Number of CNG detect (AM mode)

Used for detection of CNG in 1 to 4 pulses.

SW29 No. 7, No. 8 Reserved

Set to "0".

SW30 No. 1 ~ No. 4 Quiet detect time

When an answering machine is connected, if a no sound state is detected for a certain period of time, the machine judges it as a transmission from a facsimile machine and automatically swiches to the Fax mode.

SW30 No. 5 ~ No. 8 Quiet detect start timing

Inserts a pause before commencing quiet detection.

SW31 No. 1 ~ No. 8 Reserved

Set to "0".

SW32 No. 1 ~ No. 8 Reserved

Set to "0".

SW33 No. 1 ~ No. 8 Reserved

Set to "0".

SW34 No. 1 ~ No. 8 Reserved

Set to "0".

SW35 No. 1 ~ No. 3 Reserved

Set to "0".

SW35 No. 4 Reserved

Set to "1".

SW35 No. 5 ~ No. 8 Reserved

Set to "0".

SW36 No. 1 ~ No. 8 Reserved

Set to "0".

[3] Troubleshooting

Refer to the following actions to troubleshoot any of problems mentioned in 1-4.

[1] A communication error occurs.

[2] Image distortion produced.

[3] Unable to do overseas communication.

[4] Communication speed slow due to FALLBACK.

- Increase the transmission level SOFT SWITCH 8-4, 5, 6, 7, 8.
  May be used in case [1] [2] [3].

- Decrease the transmission level SOFT SWITCH 8-4, 5, 6, 7, 8.
  5. May be used in case [3].

- Apply line equalization SOFT SWITCH 8-1, 2.
  May be used in case [1] [2] [3] [4].

- Slow down the transmission speed SOFT SWITCH 6-5, 6, 7, 8.
  May be used in case [2] [3].

- Replace the TEL/LIU PWB.
  May be used in all cases.

- Replace the control PWB.
  May be used in all cases.

* If transmission problems still exist on the machine, use the following format and check the related matters.

TO:	ATT:	Ref.No. :
CC:	ATT:	Date :
FM:		Dept :
		Sign :

***** Facsimile communication problem *****			Ref.No.:	
From: Mr.		Fax Tel No.:	Date:	
Our customer	Name		Tel No.	
	Address		Fax No.	
	Contact person		Model name	
Other party	Name		Tel No.	
	Address		Fax No.	
	Contact person		Model name	
Problem mode	Line: Domestic / international	Model: G3	Phase: A, B, C, D.	
	Reception / Transmission	Automatic reception / Manual reception		
		Automatic dialing / Manual dialing / Others		
Frequency:		%	ROM version:	

Confirmation item				Please mark problem with an X. No problem is: 0.

Please mark problem with an X.
No problem is: 0.

A1	A2	B1	B2	C1	C2	D1	D2	E1	E2

Transmission level setting is (   ) dB at our customer

Transmission level (   ) dBm
Reception level (   ) dBm
By level meter at B1 and B2

Comment	
Countermeasure	

**** Please attach the G3 data and activity report on problem. ****

* Please complete this report before calling the "TAC" hotline if problem still occurs.

[4] Error code table

1. Communication error code table

G3 Transmission

Code	Final received signal	Error Condition (Receiver side)
0	Incomplete signal frame	Cannot recognize bit stream after flag
1	NSF, DIS	Cannot recognize DCS signal by echo etc.
		Cannot recognize NSS signal (FIF code etc)
2	CFR	Disconnects line during reception (carrier missing etc)
3	FTT	Disconnects line by fall back
4	MCF	Disconnects line during reception of multi page
		Cannot recognize NSS, DCS signal in the case of mode change
5	PIP or PIN	The line is hung up without replying to telephone request from the receiving party.
6	RTN or RTP	Cannot recognize NSS, DCS signal after transmit RTN or RTP signal.
7	No signal or DCN	No response in receiver side or DCN signal received* (transmitter side)
8	–	Owing to error in some page the error could not be corrected although the specified number of error retransmission was at tempted.
11	–	Error occurred after or while reception by the remote (receiving) machine was revealed to be impossible.
12	–	Error occurred just after fallback.
13	–	Error occurred after a response to retransmission end command was received.

G3 Reception

Code	Final received signal	Error Condition (Receiver side)
0	Incomplete signal frame	Cannot recognize bit stream after flag
1	NSS, DCS	Cannot recognize CFR or FTT signal
		Disconnects line during transmission (line error)
2	NSC, DTC	Cannot recognize NSS signal (FIF code etc)
3	EOP	Cannot recognize MCF, PIP, PIN, RTN, RTP signal
4	EOM	Cannot recognize MCF, PIP, PIN, RTN, RTP signal in the case of mode change
5	MPS	The line is hung up without replying to communication request.
6	PR1-Q	Cannot recognize PIP, PIN signal in the case of TALK request
7	No signal or DCN	No response in transmitter (cannot recognize DIS signal) or DCN signal received* (receiver side)
8	–	Error occurred upon completion of reception of all pages.
9	–	Error occurred when mode was changed or Transmission/Reception switching was performed.
10	–	Error occurred during partial page or physical page reception.
11	–	Error occurred after or during inquiry from the remote (transmitting) machine as to whether reception is possible or not.
12	–	Error occurred during or just after fallback.
13	–	Error occurred after the retransmission end command was received.