## 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 |
| :---: | :---: |
| +5 V | $4.75 \mathrm{~V} \sim 5.25 \mathrm{~V}$ |
| +24 V | $23.3 \mathrm{~V} \sim 24.7 \mathrm{~V}$ |


| Connector <br> No. | CNPW |
| :---: | :---: |
| Pin No. |  |
| 1 | MG |
| 2 | MG |
| 3 | +24 V |
| 4 | +24 V |
| 5 | +24 V |
| 6 | DG |
| 7 | +5 V |
| 8 | DG |
| 9 | PSAVE |

## 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) FU100 (ICP-S07) is installed in order to protect IC's from an overcurrent generated in the motor drive circuit. If FU100 is open, replace it with a new one.

## 3. Settings

(1) Dial mode selector

DIAL mode (Soft Switch No. SWB4 DATA No. 3) (step 1) Select "OPTION SETTING".

KEY: FUNCTION (4)
DISPLAY: OPTION SETTING $\Rightarrow$ PRESS $*$ OR \#
(step 2) Select "DIAL MODE".
KEY: Push \# until " DAIL MODE " is indicated because the number of \#s changes by the model. $\quad$ Cursor

DISPLAY: DIAL MODE $\Rightarrow 1=$ 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

UX-370H/310H
FO-730H

## [2] Diagnostics and service soft switch

## 1. Operating procedure

## (1) Entering the diagnostic mode

Press FUNC $\rightarrow 9 \rightarrow \forall \rightarrow 8 \rightarrow \# \rightarrow 7$, and the following display will appear.
ROM Ver. FKUO * (FNKO *, FMTO *) After 2 sec: DIAG MODE
FKU0 $\mathbb{*}$ (UX-370H)
FNKO X (UX-310H)
FMT0 $*$ (FO-730H)
Then press the START key. 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)


If the diag mode cannot be set, repeat the diag mode operation, per-
forming the following operation.
After the power is turned on and "WAIT A MOMENT" is indicated, press the STOP key.


## 2. Diagnostic items

| ITEM <br> No. | DIRECT <br> key <br> $($ UX-370/310) | DIRECT <br> key <br> $($ FO-730 $)$ | Contents |  |
| :---: | :---: | :---: | :--- | :--- |
| 1 | 1 | 1 | SOFT SWITCH MODE | Soft switches are displayed and changed. List can be output. |
| 2 | 2 | 2 | ROM \& RAM CHECK | ROM is sum-checked, and RAM is matched. Result list is output. |
| 3 | 3 | 3 | AGING MODE | 10 sheets of check patterns are output every 5 minutes per sheet. |
| 4 | 4 | 4 | PANEL KEY TEST | Panel keys are tested. Result list is output. |
| 5 | 5 | 5 | CHECK PATTERN | Check pattern is output. |
| 6 | - | 6 | SIGNAL SEND MODE | Various signals of FAX communication are output. |
| 7 | - | 7 | MEMORY CLEAR | Back-up memory is cleared, and is set at delivery. |
| 8 | - | 8 | SHADING MODE | Shading compensation is performed in this mode. |
| 9 | - | - | ALL BLACK PRINT | To check the print head, whole dots are printed over the interval of 2 m. |
| 10 | - | - | AUTO FEEDER MODE | Insertion and discharge of document are tested. |

## 3. Diagnostic items description

## 3. 1. Soft switch mode

Used to change the soft switch settings.
The soft switch which is stored internally is set by using the keys.
The available soft switches are SW-A1 to SW-M2.
The content of soft switches is shown in page 2-5 to 2-15.
The contents are set to factory default settings.

## 3. 2. ROM \& RAM check

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.
Number of short sounds of buzzer $0 \rightarrow$ No error

$$
\begin{aligned}
& 1 \rightarrow \text { ROM error } \\
& 2 \rightarrow \text { RAM error (32Kbyte) }
\end{aligned}
$$

## 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 $5 \mathrm{~min}-$ utes, and will be ended at a total of 10 sheets.

## 3. 4. Panel key test

This mode is used to check whether each key operates properly or not. Press the key on the operation panel, and the key will be displayed on the display. Therefore, press all keys. At this time,finally press the STOP key.
When the STOP key is pressed, the keys which are not judged as "pressed" will be printed on the result list.

- LED port of the contact image sensor (CIS) is kept on during the term from when start of the panel test mode to end with the STOP key.


## 3. 5. Check pattern

This mode is used to check the state of the printing head. It is ended with the following pattern printed on one printing sheet.
(1) Longitudinal stripe 2 Approx. 30 mm

2 black dots and 2 white dots are repeatedly progressed on one line.
(2) Full black

Approx. 30 mm


## 3. 6. Signal send mode

This 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] 9600 bps
[3] 7200bps
[4] 4800bps
[5] 2400bps
[6] 300bps (FLAG)
[7] 2100 Hz (CED)
[8] 1100 Hz (CNG)
[9] Pseudo Ringing
[10] END

## 3. 7. Memory clear

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

## 3. 8. Shading mode

The mode is used for the shooting compensation. For reading, set up the special original paper.
The shooting compensation memorizes the reference data of white and black for reading.
Moreover, the memorized data is not erased even if memory clear mode is executed.

## 3. 9. All black print

This mode is used to check the state of the printing head and intentionally overheat it. Whole dots are printed over the interval of 2 m . If it is overheated or the printing sheet is jammed, press STOP key for the end.

## 3. 10. Auto feeder mode

In this mode, a document is inserted and discharged to check the auto feed function.

After this mode is started, set a document, and the document feed will be automatically tested.

## 4. How to make soft switch setting

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


## 5. Soft switch description

- Soft switch









## - Soft switch function description

## SW-A1 No. 1 Protect from echo

Used to protect from echo in reception.
SW-A1 No. 2 Forced 4800BPS reception
When line conditions warrant that receptions take place at 4800 BPS repeatedly.

It may improve the success of receptions by setting at 4800BPS.
This improves the receiving document quality and reduces handshake time due to fallback during training.

## SW-A1 No. 3 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.
SW-A1 No. 4 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 0.6 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.)

## SW-A1 No. 5 CSI transmission

(CSI TRANSMISSION) is a switch to set whether the machine sends or does not send the signal (CSI signal) informing its own telephone No. to the remote fax machine when information is received. When "nonsending" is set, the telephone No. is not output on the remote transmitting machine if the remote transmitting machine has the function to display or print the telephone No. of receiving machine, using this CSI signal.

SW-A1 No. 6 DIS receive acknowledgment during G3 transmission Used to make a choice of whether reception of DIS (NSF) is acknowledged after receiving two DISs (NSFs) or receiving one DIS (two NSFs). It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.
SW-A1 No. 7 Non-modulated carrier for V29 transmission modem 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 a send non-modulated carrier before the image signal to avoid and echo suppression problem. It may be useful for overseas communication to avoid an echo suppression problem, if set to 1 .

## SW-A1 No. 8 EOL (End Of Line) detect timer

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

## SW-A2 No. 1 ~ No. 4 Modem speed

Used to set determine the initial modem speed. The default is 9600BPS. 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 fallback procedure.

## SW-A2 No. 5 Sender's information transmit

(SENDER'S INFORMATION TRANSMISSION) is a switch to set the function to print the content of HEADER PRINT described in the passcode list at the front end of receiver's original when original is sent to the remote machine.

If this switch is set to "NO", the HEADER PRINT is not output at the receiving machine.
SW-A2 No. 6 H2 mode (UX-370 only)
Used to determine reception of H 2 mode ( 15 sec transmission mode). When set to OFF, H2 mode reception is inhibited even though the transmitting machine has H 2 mode function.

## SW-A2 No. 7 Communication error treatment in RTN sending mode (Reception)

Used to determine communication error treatment when RTN is sent by occurrence of a received image error in G3 reception. When it is set to "1", communication error is judged as no error.

## SW-A2 No. 8 CNG transmission

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.

## SW-A3 No. 1, No. 2 CED tone signal interval

For international communication, the 2100 Hz CED tone may act as an echo suppression switch, causing a communication problem.

Though SW-A3 No. 1 and 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.


## SW-A3 No. 3 MR Coding

Used to select the MR coding enable or disable.
SW-A3 No. 4 ~ No. 8 Reserved
Set to "0".
SW-A4 No. 1 ~ No. 5 Signal transmission level
Used to control the signal transmission level in the range of-OdB to31dB.

The factory setting is at -11 dB (MODEM output).

## SW-A4 No. 6 Protocol monitor (Error print)

If set to " 1 ", protocol is printed at communication error.

## SW-A4 No. 7 Protocol monitor

Normally set to "0". If set to "1", communication can be checked, in case of trouble, without using a G3 tester or other tools.
When communication FSK data transmission or reception is made, the data is taken into the buffer. When communication is finished, the data is analyzed and printed out. When data is received with the line monitor (SW-A4 No. 8) set to "1" the reception level is also printed out.

## SW-A4 No. 8 Line monitor

Normally set to " 0 ". If set to "1", the transmission speed and the reception level are displayed on the LCD. Used for line tests.
SW-A5 No. 1, No. 2 Digital line equalization setting (Reception)
Line equalization when reception is to be set according to the line characteristics.

Setting should be made according to distance between the telephone and the telephone company central switching station.

## SW-A5 No. 3, No. 4 Reserved

Set to "0".
SW-A5 No. 5, No. 6 Digital cable equalizer setting (Reception for Caller ID)
Line equalization when reception for CALLER ID is to be set according to the line characteristics.
Setting should be made according to distance between the telephone and the telephone company central switching station.

## SW-A5 No. 7 Error criterion

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

## SW-A5 No. 8 Anti junk fax check

When using the Anti junk fax function, set to "1".

## SW-A6 No. 1 Auto gain control (MODEM)

When this mode is enabled, if the reception signal level is under 31 dBm . The modem itself controls the signal gain automatically.

## SW-A6 No. 2 End buzzer

Setting this bit to 0 will disable the end buzzer (including the error buzzer/ on-hook buzzer).
SW-A6 No. 3 Disconnect the line when DIS is received in RX mode
Bit1 = 0: When DIS signal is received during RX mode, disconnected the line is immediately.

Bit1 = 1: When DIS signal is received during RX mode, wait the next signal.

## SW-A6 No. 4 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 cannot be received.

* Usually, the control is executed according to the state of line where the equalizer setting is changed always.

SW-A6 No. 5 Equalizer freeze control 7200BPS only
Setting which specifies SW-A3 No. 6 control only in the condition of 7200BPS modem speed.

## SW-A6 No. 6 CNG transmission in manual TX mode

When set to "1", fax transmit the CNG signal in case of manual transmission mode (User press the START key after waiting the fax answering signal from handset or speaker).

SW-A6 No. 7 Initial compression scheme for sharp fax in TX mode (UX-370 only)
When set to " 0 ", if the other fax is Sharp model, fax transmit the document by H2 mode. When set to "1", even if the other fax is Sharp model, fax transmit the document by MR mode.

SW-A6 No. 8 Reserved
Set to "0".
SW-B1 No. 1 ~ No. 4 Recall interval
Choice is made for a redial interval for speed and rapid dial calls. Used a binary number to program this. If set to 0 accidentally, 1 will be assumed.

SW-B1 No. 5 ~ No. 8 Recall times
Choice is made as to how many redials there should be.
SW-B2 No. 1 ~ No. 8 Reserved
Set to "0".
SW-B3 No. 1, No. 2 PBX recall function (R key select)
Used to set the operation mode of PBX recall when the R key is pressed. Setting is made according to the type of PBX.
No. $1=$, No. 2 = 1: Time break recall (=Flash) is performed.
No. $1=$, No. $2=0$ : Earth recall is performed.

## SW-B3 No. 3 ~ No. 8 Reserved

Set to "0".
SW-B4 No. 1, No. 2 Reserved
Set to "0".
SW-B4 No. 3 Dial mode
When using the pulse dial, set to 0 . When using the tone dial, set to 1 .
SW-B4 No. 4 Pulse $\rightarrow$ Tone change function by $\nsucc$ key
When setting to 1 , the mode is changed by pressing the $\nless$ key from the pulse dial mode to the tone dial mode.

SW-B4 No. 5 ~ No. 8 Reserved
Set to "0".

SW-B5 No. 1 ~ No. 5 DTMF signal transmission level (Low)
The transmission level of DTMF signal is adjusted. (lower frequency) 00000: 0dBm
$\downarrow$
11111: $-15.5 \mathrm{dBm}(-0.5 \mathrm{dBm} \times 31)$

## SW-B5 No. 6 ~ No. 8 Reserved

Set to "0".
SW-B6 No. 1 ~ No. 5 DTMF signal transmission level (High)
The transmission level of DTMF signal is adjusted. (higher frequency) 00000: 0dBm
$\downarrow$
11111: $-15.5 \mathrm{dBm}(-0.5 \mathrm{dBm} \times 31)$
SW-B6 No. 6 ~ No. 8 Reserved
Set to "0".

## SW-C1 No. 1, No. 2 Reading slice (Binary)

Used to determine the set value of reading density in standard/fine mode. The standard setting is "00" (Factory setting is "00")

## SW-C1 No. 3, No. 4 Reading slice (Half tone)

Used to determine the set value of reading density in half tone mode.
The standard setting is "00" (Factory setting is "00")

## SW-C1 No. 5 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.

## SW-C1 No. 6 Half tone gray scale selection

Used to determine the reading gray scale in half tone mode.
When set to "0", gray scale is 64 levels.
When set to "1", gray scale is 16 levels.

## SW-C1 No. 7 MTF correction in half tone mode

This allows selection of MTF correction (dimness correction) in the half tone mode.

When "NO" (=1) is selected, the whole image becomes soft and mild. This wording however, clearness of characters will be reduced. Normally set to "YES" (=0).

SW-C1 No. 8 Reserved
Set to "0".

## SW-D1 No. 1 ~ No. 4 Number of rings for auto 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 four rings using a binary number. Since the facsimile telephone could be used as an ordinary telephone if the handset is taken off the hook, it should be programmed to the user's choice. If the soft switch was set to 1 , direct connection is made to the facsimile. If a facsimile calling beep was heard when the handset is taken off the hook, press the START key and put the handset on the hook to have the facsimile start receiving. If it was set to 0 accidentally, receive ring is set to 1 .
NOTE: If the machine is set to answer after a large number of rings, it may not be able to receive faxes successfully. If you have difficulty receiving faxes, reduce the number of rings to a maximum of 5 .

## SW-D1 No. 5 Automatic switching manual to auto receive mode

This soft switch is used to select whether the machine should switch to the auto receive mode after 5 rings in the manual receive mode or remain in the same way as SW-D1 No. 1, No. 2, No. 3 and No. 4 "0"1"0"1"(5 rings).

## SW-D1 No. 6, No. 7 Reserved

Set to "0".

## SW-D1 No. 8 Cl detection

Ring signal for auto reception is set.
When this switch is set to " 0 ", PTT standards are set.
SW-D2 No. 1 ~ No. 4 Reserved
Set to "0".
SW-D2 No. 5 Caller ID function
Used for Caller ID function.
SW-D2 No. 6, No. 7 Reserved
Set to "0".
SW-D2 No. 8 Caller ID detect during CI off
Detection of caller ID signal is performed as follows:
0 : First CI OFF only
1 : All of Cl OFF

## SW-E1 No. 1 Tel/Fax Automatic switching mode

Used to set automatic TEL/FAX switching mode or to set the normal fax mode.

SW-E1 No. 2, No. 3 Pseudo ringing time at the tel/fax automatic switching mode
Choice is made as to how long to rumble the dummy ringer on TEL/FAX automatic switching mode.
SW-E1 No. 4 Number of CNG signal detection at the tel/fax automatic switching mode
Used for detection of CNG in one tone or two tones in the TEL/FAX automatic switching mode.

## SW-E1 No. 5 CNG detect time at TEL/FAX mode

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

SW-E1 No. 6 ~ No. 8 Reserved
Set to "0".
SW-E2 No. 1 ~ No. 4 Pseudo ringer sound volume
Used to adjust sound volume of pseudo ringer to the line (ring back tone) generated on selecting TEL/FAX. Setting is the reduce level from -5 dBm output level.

## SW-E2 No. 5 ~ No. 8 Reserved

Set to "0".
SW-F1 No. 1, No. 2 DTMF detect 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.

SW-F1 No. 3 Protection of remote reception ( $5 * *$ ) detect
Used to set the function of remote reception $(5 * *)$. When set to "1", the remote reception function is disabled.
SW-F1 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.

SW-F1 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 " $5 \times \nless$ " is not changed.
Ex-7** (Default: $5 * *$ )

SW-F2 No. 1 CNG detection in STAND-BY mode
When setting to "1", the CNG signal detection function during standby stops.

SW-F2 No. 2, No. 3 Number of CNG detect (AM mode)
Used for detection of CNG in 1 to 4 pulses.
SW-F2 No. 4, No. 5 Number of CNG (STAND-BY mode)
Used for detection of CNG in 1 to 4 pulses.
SW-F2 No. 6 ~ No. 8 Reserved
Set to "0".
SW-G1 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 switches to the FAX mode.

SW-G1 No. 5 ~ No. 8 Quiet detect start timing
Inserts a pause before commencing quiet detection.
SW-G2 No. 1 ~ No. 8 Off hook hold
Used to set Off hook hold time by binary input.
(0 to 255 seconds)
SW-G3 No. 1, No. 2 OGM detect timer (IR only)
This is used to change the OGM detection time for answering machine hook up detection.

SW-G3 No. 3, No. 4 Reserved
Set to "0".
SW-G3 No. 5, No. 6 Section time of quiet detection
The switch which sets the time from the start of detection function to the end of the function.

## SW-G3 No. 7, No. 8 Reserved

Set to "0".
SW-H1 No. 1 Busy tone detection ON/OFF time (Lower 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 900 msec , and the lower limit to 200 msec . If erroneous detection is caused by sound, etc., adjust the detection range.
The lower limit can be set in the range of 350 msec to 200 msec .
SW-H1 No. 2 Busy tone detection ON/OFF time (Upper duration)
Similarly to SW-H1 No. 1, the set value can be varied
The upper limit can be set in the range of 650 msec to 900 msec .

| SW-H1 No. 1 | SW-H1 No. 2 | Detection range |
| :---: | :---: | :---: |
| 0 | 0 | $200 \mathrm{msec} \sim 900 \mathrm{msec}$ |
| 0 | 1 | $200 \mathrm{msec} \sim 650 \mathrm{msec}$ |
| 1 | 0 | $350 \mathrm{msec} \sim 900 \mathrm{msec}$ |
| 1 | 1 | $350 \mathrm{msec} \sim 650 \mathrm{msec}$ |

SW-H1 No. 3 Reserved
Set to "0".
SW-H1 No. 4 Busy tone continuous sound detect time
Set detecting time busy tone continuous sound for 5 seconds or as is PTT.

SW-H1 No. 5 Reserved
Set to "0".
SW-H1 No. 6 Busy tone detect continuation sound detect (during ICM: for internal A.M.)
Used to select detection of the continuous sound of certain frequency.
SW-H1 No. 7 Reserved
Set to "0".

SW-H1 No. 8 Busy tone detect intermittent sound detect (during ICM: for internal A.M.)
Used to select detection of the intermittent sound of certain frequency.
SW-H2 No. 1, No. 2 Busy tone detection pulse number Used to set detection of Busy tone intermittent sounds.

SW-H2 No. 3 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.

SW-H2 No. 4 ~ No. 8 Reserved
Set to "0".
SW-I1 No. 1 ~ No. 7 Reserved
Set to "0".
SW-I1 No. 8 CPC signal detection
Used to turn ON/OFF the CPC (Calling Party Control) signal detection in the TEL/FAX automatic switching mode.

SW-I2 No. 1 ~ No. 5 Reserved
Set to "0".
SW-I2 No. 6, No. 7 CPC detection time
Used to set the CPC (Calling Party Control) signal detect time.
SW-I2 No. 8 Reserved
Set to "0".
SW-I3 No. 1 ~ No. 8 Reserved
Set to "0".
SW-I4 No. 1 ~ No. 8 Reserved
Set to "0".
SW-I5 No. 1 ~ No. 8 Reserved
Set to "0".
SW-I6 No. 1 ~ No. 8 Reserved
Set to "0".
SW-I7 No. 1 ~ No. 8 Reserved
Set to "0".
SW-J1 No. 1 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.
SW-J1 No. 2 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.

SW-J1 No. 3 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.

SW-J1 No. 4 Irish setting
Used to select UK or IRELAND use.
SW-J1 No. 5 Reserved
Set to "0".
SW-J1 No. 6 Summer time setting
Used to set YES/NO of automatic clock adjustment for European summer time.

SW-J1 No. 7, No. 8 Ringer volume
Used to adjust ringing volume.

SW-J2 No. 1, No. 2 Speaker volume (3 stages)
Used to adjust sound volume from a speaker.
SW-J2 No. 3 Polling key
If this switch is set to 1 , the last of Rapid key works as polling key.

## SW-J2 No. 4 ~ No. 8 Reserved

Set to "0".

## SW-J3 No. 1 Automatic cover sheet

The machine automatically generates a cover sheet and sends it as the last page of each transmission.
SW-J3 No. 2 ~ No. 4 Communication result 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. 2: 0 No. 3: 1 No. 4:
0 are set, printing is always on (printed even if it is normally ended).
000: Error, timer and memory sending/receiving
001: Sending
010: Continuous printing
011: Not printed
100: Communication error
SW-J3 No. 5 ~ No. 8 Reserved
Set to "0".

## SW-K1 No. 1 Entering DIAG mode by pressing SPEED key

A bit which is used in the production process only. When the SPEED key is pressed, the switch is changed from the stand-by state to the DIAG mode.

SW-K1 No. 2 ~ No. 8 Reserved
Set to "0".
SW-L1 No. 1 ~ No. 4 Reserved
Set to "0".
SW-L1 No. 5 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.

## SW-L1 No. 6 A4 Paper enable

The use of recording paper of A 4 is enabled.
SW-L1 No. 7 LEGAL and LETTER paper enable
The use of recording paper of LEGAL and LETTER is enabled.

## SW-L1 No. 82 IN 1 mode (UX-370 only)

A function to print transmitted data of two pages on one sheet.
SW-L2 No. 1, No. 2 Paper set size
At present size of the recording paper.
SW-L2 No. 3 Automatic reduce of receive
If set to 1 , it is reduced automatically when receiving.
SW-L2 No. 4 Print contrast
0: Normal.
1: Light
SW-L2 No. 5 Reception reduction ratio in case of memory full
This model is designed so that the print is started according to the setting of SW-L2 No. 3 when reception of one page is completed. However, if the memory is filled with data before completion of reception of one page, the print is started with the reduction ratio which is set with this switch.
SW-L2 No. 6 ~ No. 8 Reserved
Set to "0".
SW-M1 No. 1 ~ No. 8 Reserved
Set to "0".
SW-M2 No. 1 ~ No. 8 Reserved
Set to "0".

## [3] Troubleshooting

Refer to the following actions to troubleshoot any of the 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 A4-1, 2, 3, 4, 5. May be used in case [1] [2] [3].
- Decrease the transmission level SOFT SWITCH A4-1, 2, 3, 4, 5. May be used in case [3].
- Apply line equalization SOFT SWITCH A5-1, 2.

May be used in case [1] [2] [3] [4].

- Slow down the transmission speed SOFT SWITCH A2-1, 2, 3 4. 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 |



[^0]
## [4] Error code table

## 1. Communication error code table

G3 Transmission

| Code | Final received signal |  |
| :---: | :--- | :--- |
| 0 | Incomplete signal frame | Cannot recognize bit stream after flag Condition (Receiver side) |
| 1 | NSF, DIS | Cannot recognize DCS signal by echo etc. <br> 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 <br> 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 <br> error retransmissions were attempted. |
| 11 | - | Error occurred after or while reception by the remote (receiving) machine was revealed to be <br> 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 |  |
| :---: | :--- | :--- |
| 0 | Incomplete signal frame | Cannot recognize bit stream after flag Condition (Receiver side) |
| 1 | NSS, DCS | Cannot recognize CFR or FTT signal <br> 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 <br> reception is possible or not. |
| 12 | - | Error occurred during or just after fallback. |
| 13 |  | - |

MEMO


[^0]:    * Please complete this report before calling the "TAC" hotline if problem still occurs.

