

# **OKIFAX 4580 FACSIMILE**

## **Service Manual**

**40203A**

**Oki Data Corporation**



## PREFACE

This manual is intended to be used for installing and maintaining OKIFAX 4580 facsimile transceiver.

Maintenance of the OKIFAX 4580 is assumed to be conducted at the following levels:

- Assembly-level maintenance for mechanical portions
- Unit-level maintenance for electrical at portions

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS

and

ATTENTION: IL Y A DANGER D'EXPLOSION S'IL Y A REMPLACEMENT INCORRECT DE LA BATTERIE. REMPLACER UNIQUEMENT AVEC UNE BATTERIE DU MEME TYPE OU D'UNT TYPE RECOMMANDE PAR LE CONSTRUCTEUR. METTRE AU REBUT LES BATTERIES USA GEES CONFORMEMENT AUX INSTRUCTIONS DU FABRICANT.

Programming procedures of the following user's functions are not described in this maintenance manual.

Please refer to user's guide.

- One-touch key programming
- Two-digit auto dial programming
- Group setting
- Programming mail box password
- Memory operation

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This manual is subject to alteration without prior notification.

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## 1. GENERAL INFORMATION

### 1.1 General Performance

- (1) Type of appearance
  - Desktop type
- (2) Applicable lines
  - Public switched telephone network (PSTN)
  - Private branch exchange (PBX)
  - ISDN (Integrated service digital network)
  - Internet FAX (via Internet)
  - Note:** ISDN and Internet Fax are option
- (3) Compatibility
  - ITU-T Group 3 facsimile transceiver
  - ITU-T Group 4 facsimile transceiver (option)
- (4) Document width
  - Max. 216 mm (NA Letter)
  - Min. 148 mm (ISO A5 size)
- (5) Effective reading width
 

TX

  - Max. 215 mm (NA Letter)
  - Max. 208 mm (ISO A4 size)

COPY

  - 203.2 mm (NA Letter)
  - 203.2 mm (ISO A4 size)
- (6) Scanning length
  - 128 mm to 356 mm
  - (Length setting: Unlimited (1500mm) is also available.)
- (7) Automatic document feeder (ADF)
  - 20 sheets (NA Letter/A4-size: 20-1b bond/75 gm. Oki Data recommended paper)
  - 15 sheets (NA Letter/A4-size: 16 to 28-1b bond/60-105 gm)
  - Note:** NA is North America
- (8) Recording paper or sheet
  - 1st tray: NA Letter/NA Legal/A4-size plain paper cut  
100 sheets capacity (20-1b bond\*)
  - Manual paper feeder: Transparency for overhead projector, applicable.  
Sheet size: NA Letter/NA Legal/A4-size

\*: Oki Data recommended paper
- (9) Printable width
  - NA Letter: 203.2 mm (203.2 mm for assured quality)
  - NA Legal: 203.2 mm (203.2 mm for assured quality)
  - ISO A4: 203.2 mm (197.3 mm for assured quality)
- (10) Printable length
  - NA Letter: 273.4 mm (266.7 mm for assured quality)
  - NA Legal: 349.6 mm (342.9 mm for assured quality)
  - ISO A4: 291.0 mm (284.3 mm for assured quality)
- (11) Copy stacker
  - Max. 30 sheets (Faceup stacking)
  - \*: Oki Data recommended paper

## (12) Scanning resolution

## a) Horizontal:

- 300 dot/inch or interpolated 600 dpi

**Note 1:** In the local COPY mode at standard (STD) resolutions, the dpi conversion is done from 300 dot/inch to 200 dot/inch.

## b) Vertical:

Transmission mode: 3.85 line/mm (STD), 7.7 line/mm (FINE), 15.4 line/mm (EX.FINE),  
300 dot/inch (EX.FINE) or 600 dot/inch (EX.FINE)

COPY mode: 3.85 line/mm (STD), 7.7 line/mm (FINE) or 15.4 line/mm (EX.FINE)

**Note:** 300 dpi × 300 dpi or interpolated 600 dpi × 600 dpi: Transmission is available.

## (13) Scanning method

- 2592 bits contact image sensor

## (14) Recording resolution

## a) Horizontal:

- 300 dot/inch or quasi 600 dot/inch

## b) Vertical:

Variable: Automatically adjusted to the paper length.

(784 to 1076 dot/inch), (300 to 395 dot/inch), STD mode (3.85 to 5.06 line/mm) and FINE mode (7.7 to 10.13 line/mm) and EX-FINE mode (15.4 to 20.24 line/mm)

Fixed: STD mode: 3.85 line/mm

FINE mode: 7.7 line/mm

EX-FINE mode: 15.4 line/mm

300 dot/inch

## (15) Recording method

- 211.3 mm (2496 bits) and/or 216.7 mm (2560 bits) LED print head

## (16) Minimum scan line time for reception

- When receiving from OKIFAX or ECM:

0 ms

- When receiving from non- OKIFAX and non ECM:

10 ms at 3.85 line/mm

5 ms at 7.7 line/mm, 15.4 line/mm

## (17) Print speed

- Max. 8 sheets per minute (at NA letter size)

## (18) Pre-heating time

- Approx. 30 sec. (Standby to Print)

**Note:** This feature is not available OKIFAX 4580 for ODA version.

## (19) Coding scheme

- Modified Huffman (MH)
- Modified READ (MR)
- Modified Modified READ (MMR)

- (20) Modem
- ITU-T Rec. V.29:
  - ITU-T Rec. V.27 ter:
  - ITU-T Rec. V.21 channel 2:
  - ITU-T Rec. V.17:
  - ITU-T Rec. V.34:
  - ITU-T Rec. V.33:
- (21) Transmission speed
- 3 sec. (approx 3.2 sec) per sheet of ITU-T No. 1 evaluation test chart
- Note:** This is Phase C time at 3.85 line/mm and 33600 bps for 3 sec. in MMR code transmission.
- (22) Protocol
- ITU-T Rec. T.30
  - ITU-T Rec. G4 class 1 (option)
  - OKI special protocols: High-speed protocol (G3)
- (23) Error correction scheme
- ITU-T ECM
- (24) Communication mode
- Half duplex
- (25) Image memory
- Basic model: 4M byte
- (26) Liquid crystal display (LCD)
- Two rows of 20 characters for operation guidance, check and various kinds of information
- (27) Power source
- Nominal input voltage 120 VAC for ODA version
  - Nominal input voltage 230 VAC for INT'L version
- (28) MFP (Multi- Function Peripheral) functions:
- PC Printer Function
  - PC Scanner Function
  - PC Fax Modem Function
  - Location Programing Function
- Note:** For details, see "Product Specification for MFP"
- (29) Internet FAX functions:
- Capable of Internet fax (ITU-T T.37) reception and transmission.
  - Capable of changing read side to a PDF file and sending by e-mail.
- Note:** For details, see Appendix H "Internet FAX function".

## 1.2 General User's Functions

- (1) Transmit mode
  - Automatic transmit mode
  - Manual transmit mode
- (2) Receive mode
  - Automatic receive mode
  - Manual receive mode
  - TEL/FAX automatic switchover mode
  - TAD mode
  - Memory only receive mode
  - Forwarding mode
  - PC receive mode
- (3) Instant dial
- (4) Advanced T.30 protocol
- (5) Dual access
- (6) Automatic redial
- (7) Last number redial (Manual redial)
- (8) Local copy of a document, including multiple copies
  - 50 copies max.
- (9) Sender identification (Sender ID)
- (10) Personal identification (Personal ID)
- (11) Polling transmission
  - Feeder Polling transmission
  - Memory Polling transmission
- (12) Polling reception
- (13) Bulletin polling
- (14) Acoustic line monitor
- (15) Automatic alternate selecting call (FAX No. + FAX No. can be registered in one-touch keys).
- (16) Delayed transmission (Max. 3 days)
  - Delayed broadcast
  - Delayed transmission
  - 10 Specified times
- (17) Relay broadcast initiate
- (18) Confidential message transmission
- (19) Confidential message reception
  - 8 mail boxes
- (20) PHOTO mode (at FINE resolution)
  - 64 scale gradations



- (21) G3 sequential broadcast (Memory)
  - Broadcast mode  
120 stations at maximum
  - Delayed broadcast mode
- (22) No paper/no toner reception
- (23) Memory-only reception  
(Memory reception even if paper does not run out)
- (24) Distinguishing text from picture
- (25) Page re-transmission (Only in case of memory TX mode)
- (26) Vertical reduction printing (Reduction rate is from 100% to 75%)
- (27) Horizontal reduction (RX, copy : Reduction rate is from 93% to 98%)
- (28) Smoothing printing (In case of 8 dots/mm × 3.85, 7.7 or 15.4 lines/mm → 300 dot/inch × 784 line/inch)
  - Turns off in the PC print mode.
- (29) Programmed key operation (“F” key + “OT” key)
- (30) Auto dialing
  - One-touch dialing                    10 locations
  - Two-digit automatic dialing    100 locations
  - Keypad dialing
  - Chain dialing
  - Mixed dialing
  - Group dialing                        10 groups
- (31) Real-time dialing  
Dialing with telephone off the hook or when the Hook key is pressed.
- (32) Automatic pause signal insertion
- (33) Manual feeder local copy
- (34) Telephone directory (Alpha search) dialing
- (35) TEL/FAX automatic switching
- (36) Time and date printing
- (37) Closed users group (Direct mail rejection)
- (38) Transmission contrast and resolution control
- (39) Key touch tone
- (40) Printer counter display (For drum, toner, total print)
- (41) Total page counter (Scan)
- (42) Quick scanning 6 sec. minimum → A4 size 3.85 Line/mm
- (43) Time and date setting

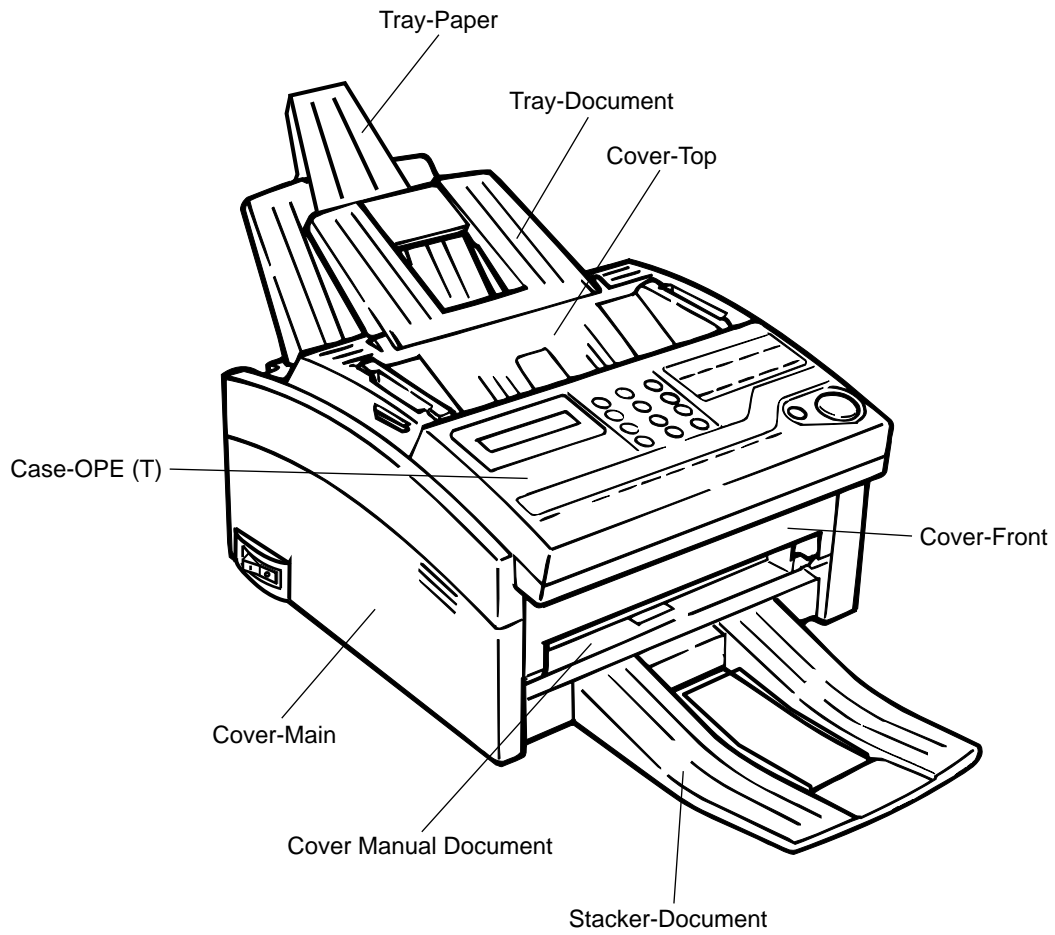
- (44) PC interface
  - CT2 (Bi-Centro) Board is needed.
  
- (45) Language selection
  - Max 5 languages (LCD and Reports)
  
- (46) Reports
  - Activity report
  - Active memory files report
  - Protocol report
  - Message confirmation report (Single address and multiple addresses)
  - Broadcast entry report (Broadcast)
  - Broadcast confirmation report
  - Transmission error report
  - Confidential reception report
  - Configuration report
  - Telephone directory
  - Power outage report
  - Log.report (service bit=ON)
  - G4 Log.report (service bit=ON)
  
- (47) Restricted access
  
- (48) Continuous alarm tone

## 1.3 General Maintenance Functions

- 1) Local tests
  - (1) Self-diagnosis
    - CPU ROM/RAM check
    - FLASH memory check (Program, Language, Default)
    - RAM check
    - Print test
  - (2) Sensor calibration (Adjustment of scanning level)
  - (3) LEDs test
  - (4) Tone send test (When NCU board is installed.)
  - (5) Multi-frequency (MF) send test (When NCU board is installed.)
  - (6) High-speed modem send test (When NCU board is installed.)
  - (7) High-speed modem receive test (When NCU board is installed.)
  - (8) Tone (TEL/FAX) test (When NCU board is installed.)
  - (9) Loop back 1 (When G4 option board is installed.)
  - (10) Loop back 2 (When G4 option board is installed.)
  - (11) INFO 0 sending (When G4 option board is installed.)
  - (12) INFO 1 sending (When G4 option board is installed.)
  - (13) INFO 3 sending (When G4 option board is installed.)
  - (14) Pulse (1KHz) send (When G4 option board is installed.)
  - (15) Pulse (2KHz) send (When G4 option board is installed.)
  - (16) Pulse (N2KHz) send (When G4 option board is installed.)
- 2) Technical function
- 3) System reset
  - All data clear
  - Location data clear
  - Configuration data clear
- 4) Default type set
- 5) PC loading
- 6) G4 PC loading

## 1.4 General Appearance

Figure 1.1 shows the general appearance.  
Figure 1.2 shows the control panel.



**Figure 1.1 General Appearance**

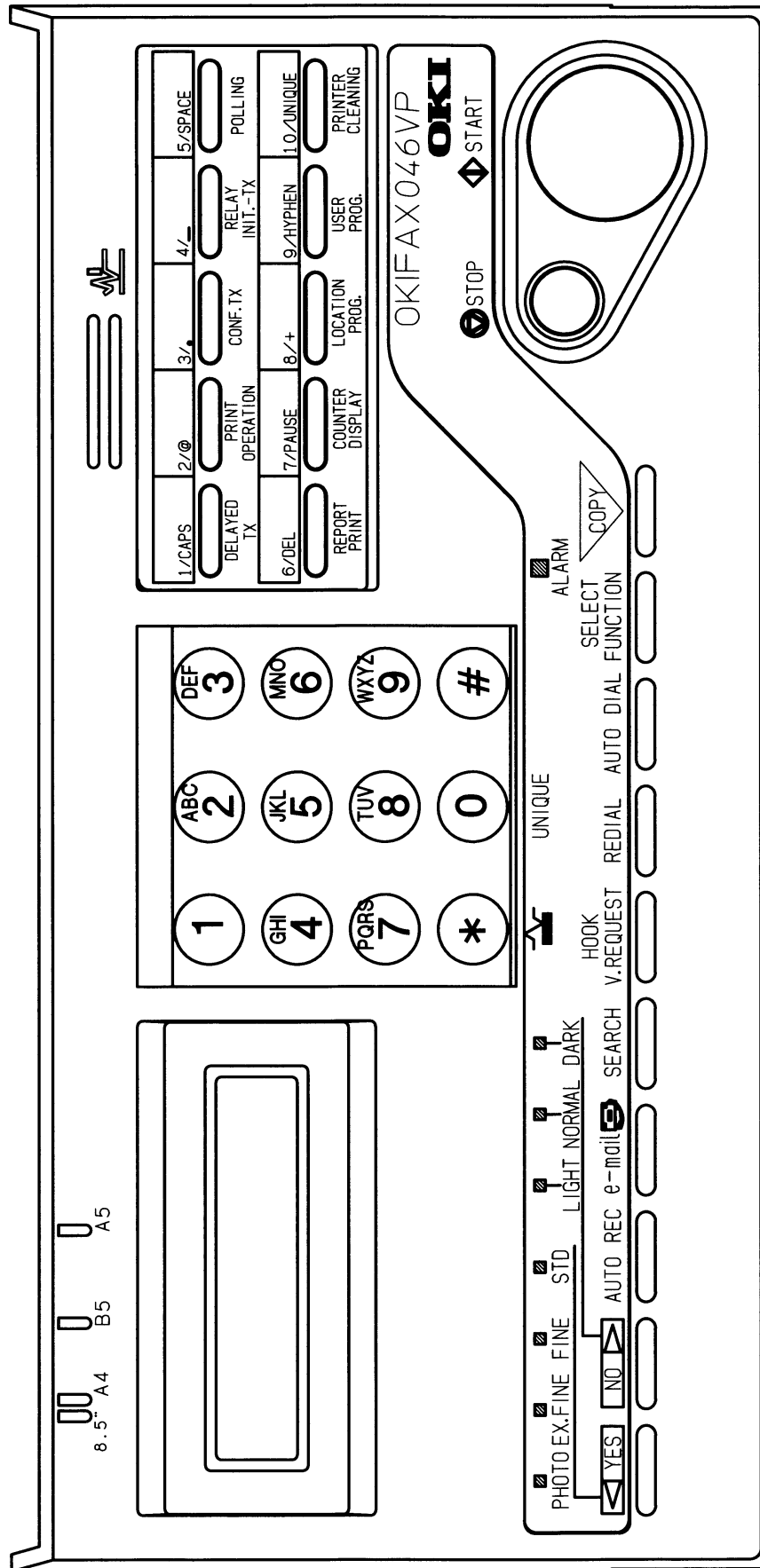


Figure 1.2 Control Panel

## 1.5 Basic Performance Specifications

Table 1.1 shows basic performance specifications.

**Note:** TF: Technical function setting  
 FP: Function program setting  
 OT: One-touch key pressed  
 F: SELECT FUNCTION key pressed

**Table 1.1 (1/10) Basic Performance Specifications**

| No. | Item  | Specifications   |
|-----|---|--|
| 1   | Applicable line   | 1) Public switched telephone network (PSTN)<br>2) Private branch exchange (PBX) (OT9+2)  |
| 2   | Line interface<br>1) Impedance<br><br>2) Sending power level<br><br>3) Receiving power level                          | 600Ω balanced<br><br><b>Note:</b> Impedance may differ by the requirement of PTT.<br><br>0 dBm to -15 dBm range<br>(Adjustable in 1 dB steps. TF + 21)<br><br>0 dBm to -40 dBm or -6 dBm to -43 dBm: for V.17, V29 and V.27 ter. (In case of V.34 TX/RX, -3dBm to -36dBm)  |
| 3   | Type of document to be transmitted<br>1) Width<br><br>2) Length<br><br>3) Thickness<br><br>4) Shape<br><br>5) Opacity | Max. 216 mm (NA Letter)<br>Min. 148 mm (ISO A5 size)<br><br><b>Note:</b> Effective reading width is NA Letter (215 mm).<br><br>Min. 128 mm<br>Max. 356 mm (14 inches)<br><br>Long document detection: 380 mm, or 1500 mm<br>* TF + 10 (To enable or disable the long document scanning)<br><br>Based on common bond paper<br>a) 0.08 to 0.13 mm for multiple page feeding<br>b) 0.06 to 0.15 mm for single page feeding<br><br>Rectangular<br><br>Documents allowing less than 40% of the scanner source light to pass through them. |

Table 1.1 (2/10) Basic Performance Specifications

| No.                               | Item                            | Specifications  |           |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
|-----------------------------------|---------------------------------|---|-----------|----------------|--------------------------------|-------------------------|-----------|--------------------------------|-------|---|----|-----------------------------------|-------|---|--------|----------------------------------|-------|---|-------|
| 4                                 | Effective reading width         | <table border="1"> <thead> <tr> <th>Document width</th> <th>Communication Mode/Paper width</th> <th>Effective reading width</th> <th>Copy size</th> </tr> </thead> <tbody> <tr> <td>ISO A4 (210 mm)<br/>[INT'L/FTZ]</td> <td>G3/A4</td> <td>208 mm for TX<br/>203.2 mm for local copy<br/>(208 mm for local copy with<br/>Horizontal Reduction = ON)</td> <td>A4</td> </tr> <tr> <td>NA letter (216 mm)<br/>[US/CANADA]</td> <td>G3/A4</td> <td>215 mm for TX<br/>203.2 mm for local copy<br/>(214 mm for local copy with<br/>Horizontal Reduction = ON)</td> <td>Letter</td> </tr> <tr> <td>NA legal (216 mm)<br/>[US/CANADA]</td> <td>G3/A4</td> <td>215 mm for TX<br/>203.2 mm for local copy<br/>(214 mm for local copy with<br/>Horizontal Reduction = ON)</td> <td>Legal</td> </tr> </tbody> </table> <p><b>Note:</b> Local copy: Printable reading width in local copy mode</p> |           | Document width | Communication Mode/Paper width | Effective reading width | Copy size | ISO A4 (210 mm)<br>[INT'L/FTZ] | G3/A4 | 208 mm for TX<br>203.2 mm for local copy<br>(208 mm for local copy with<br>Horizontal Reduction = ON) | A4 | NA letter (216 mm)<br>[US/CANADA] | G3/A4 | 215 mm for TX<br>203.2 mm for local copy<br>(214 mm for local copy with<br>Horizontal Reduction = ON) | Letter | NA legal (216 mm)<br>[US/CANADA] | G3/A4 | 215 mm for TX<br>203.2 mm for local copy<br>(214 mm for local copy with<br>Horizontal Reduction = ON) | Legal |
| Document width                    | Communication Mode/Paper width  | Effective reading width   | Copy size |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
| ISO A4 (210 mm)<br>[INT'L/FTZ]    | G3/A4                           | 208 mm for TX<br>203.2 mm for local copy<br>(208 mm for local copy with<br>Horizontal Reduction = ON)   | A4        |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
| NA letter (216 mm)<br>[US/CANADA] | G3/A4                           | 215 mm for TX<br>203.2 mm for local copy<br>(214 mm for local copy with<br>Horizontal Reduction = ON)   | Letter    |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
| NA legal (216 mm)<br>[US/CANADA]  | G3/A4                           | 215 mm for TX<br>203.2 mm for local copy<br>(214 mm for local copy with<br>Horizontal Reduction = ON)   | Legal     |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
| 5                                 | Automatic document feeder (ADF) | <p>Max. 20 documents: NA Letter or A4 (20-1b/75 gm)<br/>Max. 15 documents:<br/>NA Letter or A4 (16-28 lb/60-105 gm bond paper)</p> <p>Documents shall be placed facedown on ADF stacker.<br/>The first sheet will be fed first in the feeder and will exit<br/>facedown in the document stacker.</p>  |           |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
| 6                                 | Document skew                   | <p>Max. 1 mm skew over any advance of 100 mm. The<br/>occurrence of skew exceeding 1 mm per 100 mm shall be<br/>0.5% or less.</p>  |           |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
| 7                                 | Document jam detection          | <ol style="list-style-type: none"> <li>1) Transmission will stop and line disconnection will occur when the end of a document is not detected within 356 mm after scanning begins (except for the long document scanning. TF + 10)</li> <li>2) A jam will also be declared if the document does not reach the scanning position within 10 seconds after the start of a document feed.</li> </ol> <p><b>Note:</b> When a jam is detected during message transmission from the feeder, the machine will stop scanning and disconnect the line, but its receiving capability will remain valid.</p>  |           |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |
| 8                                 | Document jam removal            | <p>Manual release</p>   |           |                |                                |                         |           |                                |       |   |    |                                   |       |   |        |                                  |       |   |       |

Table 1.1 (3/10) Basic Performance Specifications

| No. | Item                     | Specifications   |
|-----|--------------------------|--|
| 9   | Recording paper or sheet | <p>For tray-paper:</p> <ol style="list-style-type: none"> <li>1) Type: Plain paper cut (Bond paper)</li> <li>2) Size: ISO A4 (210 mm × 297 mm)<br/>NA Letter (215.9 mm × 279.4 mm)/(8.5 inch × 11 inch)<br/>NA Legal (215.9 mm × 355.6 mm)/(8.5 inch × 14 inch)</li> <li>3) Weight: 16 lb-24 lb/60-90 gm base weight<br/>Base weight is defined as the weight of 500 sheets of 431.8 mm (17 inch) by 558.8 mm (22 inch) or 1 sheet size 1000 mm by 1000 mm.</li> <li>4) Thickness: 0.08 mm to 0.12 mm</li> <li>5) Condition: New paper</li> </ol> <p>For the manual loading feeder</p> <ol style="list-style-type: none"> <li>1) Type: Plain paper, transparency for overhead projector, colored paper, printed paper</li> <li>2) Size: A4/NA Letter/NA Legal</li> <li>3) Weight, thickness and condition: Same as above</li> </ol> <p><b>Note:</b> One single sheet should be loaded on the manual paper feeder for one occasion.</p> <p>For best results use Oki Data recommended papers</p> <ol style="list-style-type: none"> <li>1) Xerox 4200 (20 - lb/75 gm base weight paper)</li> <li>2) L-type paper for photo-printers</li> </ol> |
| 10  | Recording paper cassette | 100 sheets/tray (Oki Data recommended paper)   |



Table 1.1 (4/10) Basic Performance Specifications

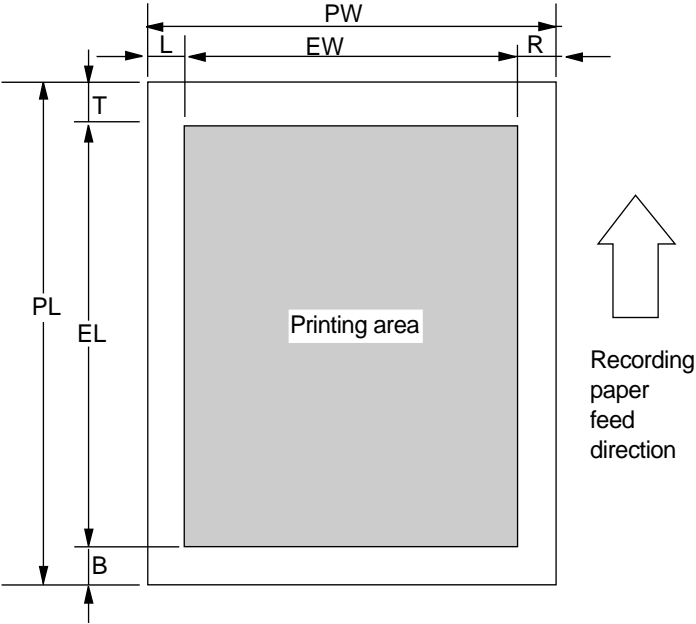
| No. | Item   | Specifications  |             |                |                    |                    |                    |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
|-----|--|---|-------------|----------------|--------------------|--------------------|--------------------|--------------------|--|--------------------|--|------|----|------|----|------|----|------|----|----|----|-------|------|-----|----|-------|----|-------|----|-----|-----|------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-------|-------|-------|----|-----|-------|-----|-------|-----|-------|-----|-------|---|------|---|------|---|------|---|------|---|---|------|---|------|---|------|---|------|---|---|------|------|------|-----|------|------|------|------|---|------|------|------|-----|------|------|------|------|--|----------------|--|-------------|--|--------------------|--|--------------------|--|------|----|------|----|------|----|------|----|----|----|-------|------|-----|----|-------|----|-------|----|-----|-----|------|-----|-----|-----|-----|-----|----|------|-------|------|-------|------|-------|------|-------|----|-----|-------|------|-------|-----|-------|-----|-------|---|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|
| 11  | Effective recording area<br><br><b>Note:</b> These tables do not include vertical and horizontal addressing deviations (+ or -3 mm) of recording paper.<br><br>1) Printable area |  <p>The diagram illustrates the dimensions of a recording paper. A central shaded rectangle represents the 'Printing area'. Various dimensions are labeled: PL (total length), PW (total width), EL (effective length), EW (effective width), T (top margin), B (bottom margin), L (left margin), and R (right margin). An upward-pointing arrow on the right indicates the 'Recording paper feed direction'.</p>   |             |                |                    |                    |                    |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
|     | 2) Guaranteed printing area  | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">NA LETTER SIZE</th> <th colspan="2">ISO A4 SIZE</th> <th colspan="2">14 inch LEGAL SIZE</th> <th colspan="2">13 inch LEGAL SIZE</th> </tr> <tr> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>PL</td> <td>11</td> <td>279.4</td> <td>11.7</td> <td>297</td> <td>14</td> <td>355.6</td> <td>13</td> <td>330.2</td> </tr> <tr> <td>PW</td> <td>8.5</td> <td>216</td> <td>8.27</td> <td>210</td> <td>8.5</td> <td>216</td> <td>8.5</td> <td>216</td> </tr> <tr> <td>EL</td> <td>10.76</td> <td>273.4</td> <td>11.46</td> <td>291</td> <td>13.76</td> <td>349.6</td> <td>12.76</td> <td>324.2</td> </tr> <tr> <td>EW</td> <td>8.0</td> <td>203.2</td> <td>8.0</td> <td>203.2</td> <td>8.0</td> <td>203.2</td> <td>8.0</td> <td>203.2</td> </tr> <tr> <td>T</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> </tr> <tr> <td>B</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> </tr> <tr> <td>L</td> <td>0.25</td> <td>6.35</td> <td>0.13</td> <td>3.4</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> </tr> <tr> <td>R</td> <td>0.25</td> <td>6.35</td> <td>0.13</td> <td>3.4</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> </tr> </tbody> </table><br><table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">NA LETTER SIZE</th> <th colspan="2">ISO A4 SIZE</th> <th colspan="2">14 inch LEGAL SIZE</th> <th colspan="2">13 inch LEGAL SIZE</th> </tr> <tr> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>PL</td> <td>11</td> <td>279.4</td> <td>11.7</td> <td>297</td> <td>14</td> <td>355.6</td> <td>13</td> <td>330.2</td> </tr> <tr> <td>PW</td> <td>8.5</td> <td>216</td> <td>8.27</td> <td>210</td> <td>8.5</td> <td>216</td> <td>8.5</td> <td>216</td> </tr> <tr> <td>EL</td> <td>10.5</td> <td>266.7</td> <td>11.2</td> <td>284.3</td> <td>13.5</td> <td>342.9</td> <td>12.5</td> <td>317.5</td> </tr> <tr> <td>EW</td> <td>8.0</td> <td>203.2</td> <td>7.77</td> <td>197.3</td> <td>8.0</td> <td>203.2</td> <td>8.0</td> <td>203.2</td> </tr> <tr> <td>T</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> </tr> <tr> <td>B</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> </tr> <tr> <td>L</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> </tr> <tr> <td>R</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> <td>0.25</td> <td>6.35</td> </tr> </tbody> </table> |             | NA LETTER SIZE |                    | ISO A4 SIZE        |                    | 14 inch LEGAL SIZE |  | 13 inch LEGAL SIZE |  | inch | mm | inch | mm | inch | mm | inch | mm | PL | 11 | 279.4 | 11.7 | 297 | 14 | 355.6 | 13 | 330.2 | PW | 8.5 | 216 | 8.27 | 210 | 8.5 | 216 | 8.5 | 216 | EL | 10.76 | 273.4 | 11.46 | 291 | 13.76 | 349.6 | 12.76 | 324.2 | EW | 8.0 | 203.2 | 8.0 | 203.2 | 8.0 | 203.2 | 8.0 | 203.2 | T | 0.12 | 3 | 0.12 | 3 | 0.12 | 3 | 0.12 | 3 | B | 0.12 | 3 | 0.12 | 3 | 0.12 | 3 | 0.12 | 3 | L | 0.25 | 6.35 | 0.13 | 3.4 | 0.25 | 6.35 | 0.25 | 6.35 | R | 0.25 | 6.35 | 0.13 | 3.4 | 0.25 | 6.35 | 0.25 | 6.35 |  | NA LETTER SIZE |  | ISO A4 SIZE |  | 14 inch LEGAL SIZE |  | 13 inch LEGAL SIZE |  | inch | mm | inch | mm | inch | mm | inch | mm | PL | 11 | 279.4 | 11.7 | 297 | 14 | 355.6 | 13 | 330.2 | PW | 8.5 | 216 | 8.27 | 210 | 8.5 | 216 | 8.5 | 216 | EL | 10.5 | 266.7 | 11.2 | 284.3 | 13.5 | 342.9 | 12.5 | 317.5 | EW | 8.0 | 203.2 | 7.77 | 197.3 | 8.0 | 203.2 | 8.0 | 203.2 | T | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 | B | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 | L | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 | R | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 | 0.25 | 6.35 |
|     | NA LETTER SIZE   |   |             | ISO A4 SIZE    |                    | 14 inch LEGAL SIZE |                    | 13 inch LEGAL SIZE |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
|     | inch   | mm  | inch        | mm             | inch               | mm                 | inch               | mm                 |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| PL  | 11   | 279.4   | 11.7        | 297            | 14                 | 355.6              | 13                 | 330.2              |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| PW  | 8.5  | 216   | 8.27        | 210            | 8.5                | 216                | 8.5                | 216                |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| EL  | 10.76  | 273.4   | 11.46       | 291            | 13.76              | 349.6              | 12.76              | 324.2              |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| EW  | 8.0  | 203.2   | 8.0         | 203.2          | 8.0                | 203.2              | 8.0                | 203.2              |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| T   | 0.12   | 3   | 0.12        | 3              | 0.12               | 3                  | 0.12               | 3                  |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| B   | 0.12   | 3   | 0.12        | 3              | 0.12               | 3                  | 0.12               | 3                  |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| L   | 0.25   | 6.35  | 0.13        | 3.4            | 0.25               | 6.35               | 0.25               | 6.35               |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| R   | 0.25   | 6.35  | 0.13        | 3.4            | 0.25               | 6.35               | 0.25               | 6.35               |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
|     | NA LETTER SIZE   |   | ISO A4 SIZE |                | 14 inch LEGAL SIZE |                    | 13 inch LEGAL SIZE |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
|     | inch   | mm  | inch        | mm             | inch               | mm                 | inch               | mm                 |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| PL  | 11   | 279.4   | 11.7        | 297            | 14                 | 355.6              | 13                 | 330.2              |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| PW  | 8.5  | 216   | 8.27        | 210            | 8.5                | 216                | 8.5                | 216                |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| EL  | 10.5   | 266.7   | 11.2        | 284.3          | 13.5               | 342.9              | 12.5               | 317.5              |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| EW  | 8.0  | 203.2   | 7.77        | 197.3          | 8.0                | 203.2              | 8.0                | 203.2              |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| T   | 0.25   | 6.35  | 0.25        | 6.35           | 0.25               | 6.35               | 0.25               | 6.35               |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| B   | 0.25   | 6.35  | 0.25        | 6.35           | 0.25               | 6.35               | 0.25               | 6.35               |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| L   | 0.25   | 6.35  | 0.25        | 6.35           | 0.25               | 6.35               | 0.25               | 6.35               |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| R   | 0.25   | 6.35  | 0.25        | 6.35           | 0.25               | 6.35               | 0.25               | 6.35               |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |
| 12  | Copy stacking  | The fax can discharge printed copies and stack them faceup.<br>Maximum sheets on the copy staker: 30*<br><br><b>Note*:</b> Oki Data recommended paper   |             |                |                    |                    |                    |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |       |       |       |     |       |       |       |       |    |     |       |     |       |     |       |     |       |   |      |   |      |   |      |   |      |   |   |      |   |      |   |      |   |      |   |   |      |      |      |     |      |      |      |      |   |      |      |      |     |      |      |      |      |  |                |  |             |  |                    |  |                    |  |      |    |      |    |      |    |      |    |    |    |       |      |     |    |       |    |       |    |     |     |      |     |     |     |     |     |    |      |       |      |       |      |       |      |       |    |     |       |      |       |     |       |     |       |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |

Table 1.1 (5/10) Basic Performance Specifications

| No. | Item                    | Specifications   |
|-----|-------------------------|--|
| 13  | Scanning resolution     | Horizontal: <ul style="list-style-type: none"> <li>• 300 dot/inch or interpolated 600 dpi</li> </ul> <b>Note :</b> In the local copy at standard (STD) resolution the dpi conversion is done from 300 dot/inch to 200 dot/inch.<br><br>Vertical:<br>Transmission mode: <ul style="list-style-type: none"> <li>• 3.85 line/mm (STD), 7.7 line/mm (FINE), 15.4 line/mm (EX.FINE), 300 dot/inch (EX.FINE) or 600 dot/inch (EX.FINE)</li> </ul> <b>Note:</b> 300 dpi×300 dpi or interpolated 600 dpi×600 dpi: Transmission is available<br><br>COPY mode: <ul style="list-style-type: none"> <li>• 3.85 line/mm, 7.7 line/mm, 15.4 line/mm.</li> </ul> |
| 14  | Image scanning method   | NA Letter size (2592-bit) contact image sensor   |
| 15  | Contrast control        | 1) Automatic background sensing<br>A continuous document background of 0.3 OD (optical density) or less will be transmitted as white.<br><br>2) The LIGHT and DARK contrasts will automatically be adjusted to improve image quality.<br>Slice level shifting has 3 levels of switch selection on operation panel.   |
| 16  | Recording resolution    | Horizontal: <ul style="list-style-type: none"> <li>• 300 dot/inch or quasi 600 dot/inch</li> </ul> Vertical:<br>Fixed: 3.85 line/mm (STD), 7.7 line/mm (FINE), 15.4 line/mm (EX-FINE) 300 dot/inch (EX-FINE)<br>Variable: Automatically adjusted to the paper length. <ul style="list-style-type: none"> <li>• 784 to 1076 dot/inch</li> <li>• 300 to 412 dot/inch</li> <li>• 3.85 to 5.06 line/mm (STD)</li> <li>• 7.7 to 10.13 line/mm (FINE)</li> <li>• 15.4 to 20.24 line/mm (EX. FINE)</li> </ul>   |
| 17  | Recording system        | Electro-photographic printing<br>1) 211.3mm (2496 bit) or 216.7mm (2560 bit) LED print head  |
| 18  | Skew of recording paper | Maximum allowable skew is + or - 1 mm over an advance of 100 mm.   |
| 19  | Copy darkness           | 1) Black image: Greater than 1.2 OD (Optical density)<br>2) White background: Not greater than 0.2 OD (Optical density)  |
| 20  | Copy uniformity         | Printed copies will exhibit a uniform density of the printed and background area:<br>1) From edge to edge: 25%<br>2) From copy to the next copy: 30%   |

Table 1.1 (7/10) Basic Performance Specifications

| No.           | Item                                 | Specifications  |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
|---------------|--------------------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------|-----|-----------|---|---|------------|-------------------|-----|-----------|---|---|------------|-------------------|-----|----------|---|---|------------|-------------------|-----|----------|---|---|------------|-------------------|-----|----------|---|---|------------|-----------------|-----|----------|---|---|------------|-----------------|
| 21            | Recording paper running out          | The fax can detect the no-paper condition by a photosensor. When the paper has run out in the local copy operation, the scanning will stop with "PAPER OUT/JAM" on the LCD and an ALARM LED turns on without an alarm tone. When the paper has run out while a message is being received and the no-paper reception is activated, the LCD display will show "MSG. IN MEMORY", and the ALARM LED turns on.   |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 22            | Minimum scan line time for receiving | 0 ms, when receiving in ECM mode or from an Oki Data facsimile.<br>5 ms at 15.4 line/mm or 7.7 line/mm and 10 ms at 3.85 line/mm when receiving from a non-Oki Data facsimile or non-ECM mode.  |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 23            | Coding scheme                        | 1) One-dimensional coding scheme:<br>Modified Huffman (MH)<br><br>2) Two-dimensional coding scheme:<br>Modified READ (MR)<br>Modified modified READ (MMR)   |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 24            | MODEM<br>1) High-speed Modem         | a) ITU-T Rec. V.29 (9600/7200 bps)<br>b) ITU-T Rec. V.27 ter (4800/2400 bps)<br>c) ITU-T Rec. V.17 (14400/12000/9600/7200 bps)<br>d) ITU-T Rec. V.33 (14400/12000 bps)<br>e) ITU-T Rec. V.34 (33600/28800 bps)  |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
|               | 2) Low-speed Modem                   | ITU-T Rec. V.21 channel 2 (300 bps)   |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
|               | 3) ISDN G4                           | ITU-T Rec. T.563, T.521, T.503, T.62, T.6, T.70   |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 25            | Fallback                             | Automatic fallback will occur according to the following sequence by FTT, RTN or PPR.   |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
|               |                                      | <table border="1"> <thead> <tr> <th>Fallback rank</th> <th>Transmission speed</th> <th>Activated by FTT (Times)</th> <th>Activated by RTN (Times)</th> <th>Activated by PPR (Times)</th> <th>Protocol</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>14400 bps</td> <td>1</td> <td>1</td> <td>4 (Note 1)</td> <td>ITU-T V.17 (V.17)</td> </tr> <tr> <td>2nd</td> <td>12000 bps</td> <td>1</td> <td>1</td> <td>4 (Note 1)</td> <td>ITU-T V.17 (V.17)</td> </tr> <tr> <td>3rd</td> <td>9600 bps</td> <td>1</td> <td>1</td> <td>4 (Note 1)</td> <td>ITU-T V.17 (V.29)</td> </tr> <tr> <td>4th</td> <td>7200 bps</td> <td>1</td> <td>1</td> <td>4 (Note 1)</td> <td>ITU-T V.17 (V.29)</td> </tr> <tr> <td>5th</td> <td>4800 bps</td> <td>2</td> <td>1</td> <td>4 (Note 1)</td> <td>ITU-T V.27 ter.</td> </tr> <tr> <td>6th</td> <td>2400 bps</td> <td>2</td> <td>1</td> <td>4 (Note 1)</td> <td>ITU-T V.27 ter.</td> </tr> </tbody> </table> | Fallback rank            | Transmission speed       | Activated by FTT (Times) | Activated by RTN (Times) | Activated by PPR (Times) | Protocol | 1st | 14400 bps | 1 | 1 | 4 (Note 1) | ITU-T V.17 (V.17) | 2nd | 12000 bps | 1 | 1 | 4 (Note 1) | ITU-T V.17 (V.17) | 3rd | 9600 bps | 1 | 1 | 4 (Note 1) | ITU-T V.17 (V.29) | 4th | 7200 bps | 1 | 1 | 4 (Note 1) | ITU-T V.17 (V.29) | 5th | 4800 bps | 2 | 1 | 4 (Note 1) | ITU-T V.27 ter. | 6th | 2400 bps | 2 | 1 | 4 (Note 1) | ITU-T V.27 ter. |
| Fallback rank | Transmission speed                   | Activated by FTT (Times)  | Activated by RTN (Times) | Activated by PPR (Times) | Protocol                 |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 1st           | 14400 bps                            | 1   | 1                        | 4 (Note 1)               | ITU-T V.17 (V.17)        |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 2nd           | 12000 bps                            | 1   | 1                        | 4 (Note 1)               | ITU-T V.17 (V.17)        |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 3rd           | 9600 bps                             | 1   | 1                        | 4 (Note 1)               | ITU-T V.17 (V.29)        |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 4th           | 7200 bps                             | 1   | 1                        | 4 (Note 1)               | ITU-T V.17 (V.29)        |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 5th           | 4800 bps                             | 2   | 1                        | 4 (Note 1)               | ITU-T V.27 ter.          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
| 6th           | 2400 bps                             | 2   | 1                        | 4 (Note 1)               | ITU-T V.27 ter.          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |
|               |                                      | When the last trial fails, the transmitting station sends out a DCN signal to the remote station for disconnection.<br><br><b>Note 1:</b> Continuous PPRs for the same partial page within each fallback rank.<br><b>2:</b> V.34 fallback sequence<br>The modem automatically selects transmission speed according to the line condition.   |                          |                          |                          |                          |                          |          |     |           |   |   |            |                   |     |           |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                   |     |          |   |   |            |                 |     |          |   |   |            |                 |

Table 1.1 (8/10) Basic Performance Specifications

| No.                | Item  | Specifications  |                  |         |                    |     |
|--------------------|---|---|------------------|---------|--------------------|-----|
| 26                 | Protocol  | 1) ITU-T Rec. T.30<br>2) Oki Data special protocol<br>High-speed protocol<br>The T.30 protocol signal from the transmitting station is sent at message transmission speed instead of 300 bps. (This function is disable when the H/Modem rate is set to 9.6 kbit/s by TF No.13)<br><b>Note :</b> In Hihg-speed protocol, V.34 is not applied.<br><br>3) ITU-T G4 class 1 (option)   |                  |         |                    |     |
| 27                 | Transmission time   | 3 sec.(approx 3.2 sec) /ITU-T No. 1 evalution test chart<br><br><b>Note:</b> This is Phase C time at 3.85 line/mm and 33600 bps for 3 sec. in MMR code transmission.<br>Sender ID is not added to the sending data.   |                  |         |                    |     |
| 28                 | Error correction scheme   | ITU-T ECM defined in T4, T30 are providrd.<br>This should be applicable to MH, MR and MMR coding schemes.   |                  |         |                    |     |
| 29                 | Communication mode  | Half-duplex   |                  |         |                    |     |
| 30                 | Ringing signal detection sensitivity<br>1) Voltage range<br><br>2) Frequency range<br><br>3) Ring response time | 25 to 150 V r.m.s.<br>Inoperative below 10 V<br><br><b>Note:</b> This range may differ by the requirement of PTT.<br><br>20 to 68 Hz<br><br><b>Note:</b> This range may differ by the requirement of PTT.<br><br>One-ringing signal or 5 to 20 seconds.<br>(Selectable in 5 sec. steps. F + OT9 + ← + 11)   |                  |         |                    |     |
| 31                 | Image memory  | <table border="1"> <thead> <tr> <th>Memory condition</th> <th>[pages]</th> </tr> </thead> <tbody> <tr> <td>Standard (4M-byte)</td> <td>320</td> </tr> </tbody> </table><br><b>Note:</b> ITU-T No.1 sample document is used to count the number of sheets. (MMR/STD/Sender ID : off)<br><br><b>Note:</b> OKIFAX 4580 does not back up the message received in memory for the power failure. | Memory condition | [pages] | Standard (4M-byte) | 320 |
| Memory condition   | [pages]   |   |                  |         |                    |     |
| Standard (4M-byte) | 320   |   |                  |         |                    |     |
| 34                 | Overheat protection   | The heater of the fuser unit is controlled within the predetermined temperature range by the thermistor. If the temperature of the heater exceeds the range, the LCD displays "PRINTER ALARM 4".<br><br>Furthermore, the built-in thermostat in the fuser unit prevents the heater from being overheated even in the event of the failures in the above temperature control circuit.  |                  |         |                    |     |

Table 1.1 (9/10) Basic Performance Specifications

| No.        | Item   | Specifications   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
|------------|--|--|------|---------------|------------|----------|-----|-----|---------|------|------|------------|------|------|---------|------|------|------|---------------|------------|----------|-----|-----|---------|------|------|------------|------|------|---------|--------------|--------------|
| 35         | PC interface applications (Option)                     | <p>The following four modes are supported:</p> <ol style="list-style-type: none"> <li>1) PC local printer function</li> <li>2) PC scanner function</li> <li>3) PC FaxModem function</li> <li>4) Location Programing function</li> </ol> <p><b>Note</b> This function will be supplied as the OKIFAX 4580 option in case Oki Data can get the approval in respective countries without modifying the optional unit. (Hardware and software is option for Bi-centro interface.)</p> <p>For details, see product specification for MFP.</p>   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| 36         | Internet FAX function (Option)                         | <ol style="list-style-type: none"> <li>1) Capable of Internet fax (ITU-T T.37) reception and transmission.</li> <li>2) Capable of changing read side to a PDF file and sending by e-mail.</li> </ol> <p>For details, see Appendix I "Internet FAX Fucntion".</p>   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| 37         | Power supply unit and Power consumption of the machine | <p>Power consusmption of the machine (Typical power)</p> <p>(1) US/CANADA Versions</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Typical Power</th> <th>Max. Power</th> </tr> </thead> <tbody> <tr> <td>Transmit</td> <td>16W</td> <td>18W</td> </tr> <tr> <td>Receive</td> <td>104W</td> <td>115W</td> </tr> <tr> <td>Local copy</td> <td>141W</td> <td>157W</td> </tr> <tr> <td>Standby</td> <td>5.4W</td> <td>6.1W</td> </tr> </tbody> </table> <p>(2) INT'L Versions</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Typical Power</th> <th>Max. Power</th> </tr> </thead> <tbody> <tr> <td>Transmit</td> <td>18W</td> <td>20W</td> </tr> <tr> <td>Receive</td> <td>102W</td> <td>112W</td> </tr> <tr> <td>Local copy</td> <td>143W</td> <td>157W</td> </tr> <tr> <td>Standby</td> <td>6.5W (0.35W)</td> <td>7.7W (0.46W)</td> </tr> </tbody> </table> <p>( ) : Power save mode = ON<br/>*Chart: ITU-T No. 1</p> | Mode | Typical Power | Max. Power | Transmit | 16W | 18W | Receive | 104W | 115W | Local copy | 141W | 157W | Standby | 5.4W | 6.1W | Mode | Typical Power | Max. Power | Transmit | 18W | 20W | Receive | 102W | 112W | Local copy | 143W | 157W | Standby | 6.5W (0.35W) | 7.7W (0.46W) |
| Mode       | Typical Power  | Max. Power   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Transmit   | 16W  | 18W  |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Receive    | 104W   | 115W   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Local copy | 141W   | 157W   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Standby    | 5.4W   | 6.1W   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Mode       | Typical Power  | Max. Power   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Transmit   | 18W  | 20W  |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Receive    | 102W   | 112W   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Local copy | 143W   | 157W   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |
| Standby    | 6.5W (0.35W)   | 7.7W (0.46W)   |      |               |            |          |     |     |         |      |      |            |      |      |         |      |      |      |               |            |          |     |     |         |      |      |            |      |      |         |              |              |

**Table 1.1 (10/10) Basic Performance Specifications**

| No.  | Item                             | Specifications   |                         |              |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
|--|----------------------------------|--|-------------------------|--------------|----------------|----------------|------|-------------|----------------------|----------------------|-------------------------|------------|----------|---------|---------|---------|-----|------------------------------|------------|----------------|---|------------|--|-------------|-------------|---|------------|
| 38   | Ambient condition                | <ul style="list-style-type: none"> <li>• Humidity<br/>The machine will operate as specified at relative humidities in the range of 20 percent to 80 percent (non-condensing). Operation outside this range will be subject to the limitations shown in Table Temperature and Humidity.</li> <li>• Temperature<br/>The machine will operate as specified in the temperature range of 10 Celsius to 32 Celsius. Operation outside this range will be subject to the limitations shown in Table Temperature and Humidity.</li> </ul> <p style="text-align: center;"><b>Table Temperature and Humidity</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>In operation</th> <th>Power off mode</th> <th>During Storage</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>50 - 90<br/>(10 - 32)</td> <td>32 - 110<br/>(0 - 43)</td> <td>14 - 110<br/>(-10 - -43)</td> <td>°F<br/>(°C)</td> </tr> <tr> <td>Humidity</td> <td>20 - 80</td> <td>10 - 90</td> <td>10 - 90</td> <td>%RH</td> </tr> <tr> <td>Maximum wet bulb temperature</td> <td>77<br/>(25)</td> <td>80.4<br/>(26.8)</td> <td>—</td> <td>°F<br/>(°C)</td> </tr> <tr> <td>Minimum difference between wet and dry bulb temperatures</td> <td>35.6<br/>(2)</td> <td>35.6<br/>(2)</td> <td>—</td> <td>°F<br/>(°C)</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>1. Storage conditions specified above apply to the machine in packed condition.</li> <li>2. Temperature and humidity must be in the range where no condensation occurs.</li> </ol> |                         | In operation | Power off mode | During Storage | Unit | Temperature | 50 - 90<br>(10 - 32) | 32 - 110<br>(0 - 43) | 14 - 110<br>(-10 - -43) | °F<br>(°C) | Humidity | 20 - 80 | 10 - 90 | 10 - 90 | %RH | Maximum wet bulb temperature | 77<br>(25) | 80.4<br>(26.8) | — | °F<br>(°C) | Minimum difference between wet and dry bulb temperatures | 35.6<br>(2) | 35.6<br>(2) | — | °F<br>(°C) |
|  | In operation                     | Power off mode   | During Storage          | Unit         |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
| Temperature  | 50 - 90<br>(10 - 32)             | 32 - 110<br>(0 - 43)   | 14 - 110<br>(-10 - -43) | °F<br>(°C)   |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
| Humidity   | 20 - 80                          | 10 - 90  | 10 - 90                 | %RH          |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
| Maximum wet bulb temperature                             | 77<br>(25)                       | 80.4<br>(26.8)   | —                       | °F<br>(°C)   |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
| Minimum difference between wet and dry bulb temperatures | 35.6<br>(2)                      | 35.6<br>(2)  | —                       | °F<br>(°C)   |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
| 39   | Dimension<br>(Main body)         | <ol style="list-style-type: none"> <li>1) Width: Approx. 316 mm</li> <li>2) Depth: Approx. 383 mm</li> <li>3) Height: Approx. 190 mm</li> </ol>  |                         |              |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
| 40   | Weight<br>(Main body)            | <p>Approx. 8 kg<br/>Excluding recording paper and packing materials.</p>   |                         |              |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |
| 41   | Attachment<br>(to the main body) | <ol style="list-style-type: none"> <li>1) AC power cord × 1</li> <li>2) I/D unit × 1 (Already installed)</li> <li>3) Toner cartridge × 1</li> <li>4) Tray - Paper</li> <li>5) Tray - Document</li> <li>6) Document stacker × 1</li> <li>7) Line cord × 1</li> <li>8) One touch sheet × 1 (Already installed)</li> <li>9) User's guide × 1</li> </ol>   |                         |              |                |                |      |             |                      |                      |                         |            |          |         |         |         |     |                              |            |                |   |            |  |             |             |   |            |

## 1.6 Reports and Lists

Table 1.2 shows Reports and Lists Specifications.

**Note:** F +OT: Press FUNCTION and One-touch key  
 FP: Function program setting  
 TF: Technical function setting

**Table 1.2 (1/2) Reports and Lists Specifications**

| No. | Item   | Specifications  |
|-----|--|---|
| 1   | Call-back message                                    | The transmitter sends a call-back message to the receiver only when the receiver does not respond to voice request of the transmitter.  |
| 2   | Sender ID  | The fax can transmit a programmed alphanumeric message, such as company's name, consisting of up to 32 characters.<br><br>* (Outside only)  |
| 3   | Transmitting subscriber identification(TSI) printing | Received TSI can be printed at the top of the received page.<br>* TF + 05 (To enable or disable this function)  |
| 4   | Cancel report<br>(Power outage report)               | The fax will automatically print out a power outage report when the AC power is restored after the power failure.   |
| 5   | Activity report                                      | The fax can print out an activity report manually, and provides a record of your fax machine's last 50 communications.<br>* REPORT PRINTOUT+1(Manual printout)  |
| 6   | Message confirmation report                          | The fax can print out a message confirmation report manually or automatically in the following cases.<br>(1) Manual print<br>By pressing the COPY key after a communication<br><br>(2) Automatic printout<br>When the FP+01 (to enable or disable automatic printing after a communication) is set to Enable. |
| 7   | Broadcast entry report                               | The fax can print out a broadcast entry report if specified during operating sequence of a broadcast.   |
| 8   | Broadcast confirmation report                        | The fax can print out a broadcast confirmation report manually or automatically.<br>* COPY key (Manual printout): Pressed after a broadcast.<br><br>* REPORT PRINTOUT + 2 (Manual printout)<br>* FP +02 (To enable or disable automatic printing)   |
| 9   | Confidential reception report                        | The fax can print out this report automatically on completion of a confidential reception.  |
| 10  | Memory files report                                  | Printing the list of received but not printed yet documents and waiting documents for transmission stored in the memory.<br>* REPORT PRINTOUT + 3 (Manual printout)   |
| 11  | Telephone directory                                  | This directory is printed manually.<br>(REPORT PRINTING + 4)  |

Table 1.2 (2/2) Reports and Lists Specifications

| No. | Item                  | Specifications   |
|-----|-----------------------|--|
| 12  | Configuration report  | This report is printed manually.<br>(REPORT PRINTING + 5)  |
| 13  | Active memory files   | This report will be manually or automatically printed out for information of transmission/reception data stored in the memory. When there is no stored image data in the memory at all, the Active memory files is not printed out. (REPORT PRINTING +3) |
| 14  | Protocol dump (G3)    | This report will be manually printed out for maintenance purpose. If the previous communication is G3, G3 communication protocol dump is printed out. (REPORT PRINTING +6)   |
| 15  | Self-diagnosis report | This report will be manually printed out for maintenance purpose. (LOCAL TEST +1)  |
| 16  | Log report            | This report will be manually printed out for fault analysis (Operation is possible only at the time of ON serviceman setting.)   |
| 17  | Protocol dump (G4)    | This report will be manually printed out for maintenance purpose. If it is G4, G4 communication protocol dump is printed out. (REPORT PRINTING +6)   |
| 18  | G4 Log report         | This report will be manually printed out for fault analysis when G4 board is installed.<br>(Operation is possible only at the time of ON serviceman setting.)  |



# MESSAGE CONFIRMATION

07/01/2002 08:05  
ID=OKI

| DATE  | S,R-TIME | DISTANT STATION ID | MODE | PAGES | RESULT |      |
|-------|----------|--------------------|------|-------|--------|------|
| 07/01 | 00'20"   | OKI FAX            | TX   | 02    | OK     | 0000 |

Message Confirmation Report (MCF)

# MESSAGE CONFIRMATION

07/01/2002 17:05  
ID=OKI

| DATE  | S,R-TIME | DISTANT STATION ID | MODE | PAGES | RESULT |      |
|-------|----------|--------------------|------|-------|--------|------|
| 07/01 | 00'20"   |                    | B.C. | 01    | COMP   | 60A0 |

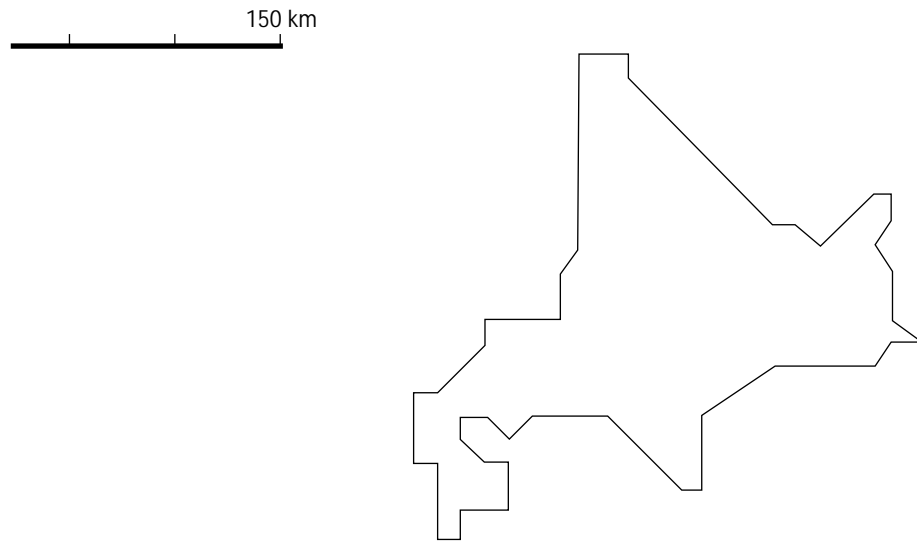


IMAGE in MCF with Memory TX

# ACTIVITY REPORT

07/01/2002 17:05  
ID=OKI

| TOTAL | TIME  | TX=08:22' | RX=17:30'          |         |       |        |         |
|-------|-------|-----------|--------------------|---------|-------|--------|---------|
| DATE  | TIME  | S,R-TIME  | DISTANT STATION ID | MODE    | PAGES | RESULT |         |
| 06/29 | 10:00 | 01'20"    | OKI FAX            | TX      | 02    | OK     | 0000    |
| 06/29 | 10:10 | 01'00"    | 0485 88 3385       | TX      | 00    | STOP   | 9080    |
| 06/29 | 12:05 | 01'20"    | OKI FAX            | TX      | 03    | OK     | 0000    |
| 06/29 | 13:00 | 00'20"    | 03 5476 4300       | TX      | 01    | OK     | 0000    |
| 06/29 | 15:40 | 03'25"    | ODS TAKASAKI       | CONF=02 | 03    | OK     | 0000 *1 |
| 06/29 | 19:00 | 00'00"    | OKI FAX            | TX      | 01    | OK     | 0000 *2 |
| 06/30 | 10:10 | 02'00"    | OKI SHIBAURA       | RX      | 05    | NO     | 908E    |
| 06/30 | 10:22 | 00'12"    | 0495 22 5400       | TX      | 00    | STOP   | 9080    |
| 06/30 | 10:50 | 01'20"    | 0495 22 5400       | RX      | 03    | NO     | 9090    |
| 06/30 | 12:05 | 00'20"    | OKI FAX            | TX      | 01    | STOP   | 9080    |
| 06/30 | 15:00 | 01'30"    |                    | RX      | 03    | OK     | 0000    |
| 06/30 | 15:30 | 00'20"    |                    | TX      | 01    | OK     | 0000    |
| 06/30 | 19:04 | 00'20"    | 03 5476 4300       | TX      | 00    | STOP   | 9080    |
| 07/01 | 09:00 | 01'11"    |                    | TX      | 02    | OK     | 0000    |
| 07/01 | 10:20 | 00'20"    | 03 5476 4300       | TX      | 02    | STOP   | 9080    |
| 07/01 | 10:35 | 02'23"    |                    | CONF=03 | 02    | OK     | 0000 *1 |
| 07/01 | 10:50 | 00'20"    | ODS TAKASAKI       | RX      | 01    | OK     | 0000    |
| 07/01 | 11:03 | 00'00"    | OKI FAX            | TX      | 00    | STOP   | 9080    |
| 07/01 | 13:00 | 00'24"    | 03 5476 4300       | RX      | 01    | NO     | 9082    |
| 07/01 | 16:00 | 01'20"    | 027 324 2117       | POLL=01 | 01    | OK     | 0000 *3 |
| 07/01 | 16:10 | 00'40"    | ODS                | POLL TX | 01    | OK     | 0000 *4 |

\*1: Confidential reception  
\*2: Manual TX  
\*3: Bulletin TX wait state  
\*4: Memory/Feeder polling TX wait state

Activity Report

## ACTIVE MEMORY FILES

07/01/2002 17:05  
ID=ODC

| RECEPTION |  | ENTRIES | PAGES |
|-----------|--|---------|-------|
|           |  | 05      | 20    |

| PERSONAL BOX |      |         |       |  |
|--------------|------|---------|-------|--|
| BOX NO.      | MODE | ENTRIES | PAGES |  |
| 01           | CONF | 03      | 20    |  |
| 02           | CONF | 01      | 02    |  |
| 05           | POLL | 01      | 05    |  |

| POLLING TX/RX |       |                    |         |       |  |
|---------------|-------|--------------------|---------|-------|--|
| DATE          | TIME  | DISTANT STATION ID | MODE    | PAGES |  |
|               |       |                    | POLL TX | 03    |  |
| 07/02         | 12:05 | OKI                | POLL RX |       |  |

| TRANSMISSION |       |                    |      |       |  |
|--------------|-------|--------------------|------|-------|--|
| DATE         | TIME  | DIDTANT STATION ID | MODE | PAGES |  |
| 07/01        | 20:00 | OKI DATA SYSTEMS   | TX   | 03    |  |
| 07/01        | 12:03 | 0273242117         | TX   | 01    |  |
| 07/01        | 19:00 | ODC TAKASAKI       | TX   | 02    |  |

Active Memory Files

**Configuration**

**Print conditions**

- 1) Setting by user  
Two pages shall be printed out. Setting only is printed on the first page and Dial Parameter setting, SYSTEM DATA PRG. and Internet FAX/ISDN registration are printed on the second page.
- 2) Setting by service persons  
Printed as the third page when Service Bit = ON.

## Report image

## CONFIGURATION P1

02/14/2002 12:00  
ID=ODS

## FUNCTION LIST

|                             |                                 |                                  |
|-----------------------------|---------------------------------|----------------------------------|
| 01:MCF (SINGLE-LOC.)<br>OFF | 02:MCF (MULTI-LOC.)<br>ON       | 03:ERR.REPORT (MCF)<br>ON        |
| 04:IMAGE IN MCF<br>PART.    | 05:SENDER ID.<br>ON             | 06:MONITOR VOLUME<br>LOW         |
| 07:BUZZER VOLUME<br>MIDDLE  | 08:CLOSED NETWORK<br>OFF        | 09:TX MODE DEFAULT<br>STD/NORMAL |
| 10:T/F TIMER PRG.<br>35SEC  | 11:RING RESPONSE<br>1 RING      | 12:DISTINCTIVE RING<br>OFF       |
| 13:PAPER SIZE<br>A4         | 14:USER LANGUAGE<br>ENGLISH     | 15:INCOMING RING<br>ON           |
| 16:REMOTE RECEIVE<br>OFF    | 17:MEM./FEEDER SWITCH<br>MEMORY | 18:POWER SAVE MODE<br>ON         |
| 19:ECM FUNCTION<br>ON       | 20:REMOTE DIAGNOSIS<br>OFF      | 21:PC/FAX SWITCH<br>ON           |
| 22:NO TONER MEM.RX<br>OFF   | 23:MEM.FULL SAVE<br>ON          | 24:CONTINUOUS TONE<br>OFF        |
| 25:INSTANT DIAL<br>ON       | 26:RESTRICT ACCESS<br>OFF       | 27:WIDTH REDUCTION<br>OFF        |
| 28:TONER SAVE<br>OFF        | 29:CNG COUNT<br>1               | 30:600DPI FAX TX<br>ON           |
| 31:ISDN DIAL MODE<br>G4     | 32:SPEECH RECEIVE<br>ON         | 33:OPTION I/F MODE<br>SCN        |
| 34:PAPER SIZE CHECK<br>ON   | 35:PRINT JOB T.O.<br>30SEC      | 36:FLATBED TX MODE<br>STD        |
| 37:FLATBED TX T.O.<br>30SEC | 38:HALF SIZE SCAN<br>OFF        | 39:AUTO TRAY SW.<br>ON           |

Configuration Report (User)

## CONFIGURATION P2

02/14/2002 12:00  
ID=ODS

### DIAL PARAMETER

|                    |        |                  |        |
|--------------------|--------|------------------|--------|
| REDIAL TRIES       | 3 TRY  | REDIAL INTERVAL  | 3 MIN  |
| DIAL TONE DETECT   | OFF    | BUSY TONE DETECT | ON     |
| MF(TONE)/DP(PULSE) | MF     | PULSE DIAL RATE  | 10 PPS |
| PULSE MAKE RATIO   | 39%    | PULSE DIAL TYPE  | N      |
| MF(TONE) DURATION  | 100MS  | PBX LINE         | OFF    |
| PBX TYPE           | NORMAL | AUTO START       | ON     |
| DIAL PREFIX        | OFF    |                  |        |

TEL NO. = 12345678901234567890  
CALL BACK NO. = 12345678901234567890  
FORWARDING NO. =

ISDN COUNTRY CODE = 081  
ISDN(G4) NO. = 12345678901234567890  
ISDN(G4) ID = ABCDEFGHIJ  
ISDN SUB NO. = 1234567890123456789  
ISDN CALLED NO. = 12345678901234567890

### I-FAX NIC OPTIONS

#### <<I-FAX NIC SETTINGS>>

|                   |     |                  |         |
|-------------------|-----|------------------|---------|
| TEXT PRINT        | ON  | HEADER PRINT     | TYPE1   |
| CODING MODE       | MH  | EX.FINE MODE     | 300 DPI |
| SENDER ID (EMAIL) | OFF | SEND FILE FORMAT | TIFF    |
| SEND NOTIFICATION | OFF | I-FAX NIC UPDATE | ON      |

<<POP INTERVAL>> DAILY [00:01] [03:01] [05:01] [07:01]

#### <<NETWORK SETTINGS>>

IP ADDRESS [202.250.105. 26]  
SUBNET MASK [202.250.150.254]  
DEFAULT GATEWAY [255.255.255. 0]  
SMTP SERVER NAME [----- MAX64 -----]  
POP SERVER NAME [----- MAX64 -----]  
POP USER ID [ABCDEFGHIJKLMNOP]  
POP PASSWORD [\*\*\*\*\*]  
DNS P.SRV ADDR. [202.101.233.105]  
DNS S.SRV ADDR. [202.101.233.105]  
FAX EMAIL ADDR. [----- MAX64 -----]

MAC ADDRESS 00.C0.26.39.23.38

**Configuration Report (User)**

# CONFIGURATION P3

02/14/2002 12:00  
ID=ODS

## FUNCTION LIST

|                               |                              |                              |
|-------------------------------|------------------------------|------------------------------|
| 01:SERVICE BIT<br>ON          | 02:MONITOR CONT.<br>ON       | 03:COUNTRY CODE<br>TWN       |
| 04:TIME/DATE PRINT<br>OFF     | 05:TSI PRINT<br>ON           | 06:TAD MODE<br>TYPE2         |
| 07:REAL TIME DIAL<br>TYPE2    | 08:TEL/FAX SWITCH<br>ON      | 09:MDY/DMY<br>MDY            |
| 10:LONG DOC. SCAN<br>ON       | 11:TONE FOR ECHO<br>OFF      | 12:MH ONLY<br>OFF            |
| 13:H/MODEM RATE<br>33.6K      | 14:T1(TX) TIMER VALUE<br>059 | 15:T1(RX) TIMER VALUE<br>035 |
| 16:T2 TIMER VALUE<br>130      | 17:DIS BIT32<br>ON           | 18:ERR CRITERION VALUE<br>10 |
| 19:OFF HOOK BYPASS<br>OFF     | 20:NL EQUALIZER<br>0 DB      | 21:ATTENUATOR<br>10 DB       |
| 22:T/F TONE ATT<br>10 DB      | 23:MF. ATT<br>3 DB           | 24:RING DURA. * 10MS<br>12   |
| 25:CML TIMING * 100MS<br>03   | 26:LED HEAD STROBE<br>10100  | 27:MEDIA TYPE<br>MEDIUM      |
| 28:TR LATCH CURRENT<br>0      | 29:NSF SWITCH<br>OFF         | 30:ID/TSI PRIORITY<br>ID     |
| 31:TONER COUNT CLEAR<br>OFF   | 32:PARALLEL PICK UP<br>OFF   | 33:V.34 TX RETRY<br>ON       |
| 34:SYMBOL RATE<br>3429        | 35:LEASED LINE<br>OFF        | 36:CED SEND<br>ON            |
| 37:TOP FEED<br>OMM            | 38:BOTTOM FEED<br>OMM        | 39:A/R FULL PRINT<br>ON      |
| 40:COMMAND TIME OUT<br>30 SEC | 41:G3/G4 LEARNING<br>ON      | 42:LLC CHECK<br>OFF          |
| 43:G3 SETUP<br>3.1K AUDIO     |                              |                              |
| 44:G3 FALLBACK CAUSE          |                              |                              |
| BA01                          | BA02                         | BA03                         |
| BA10                          | BA11                         | BA12                         |
| BA16                          | BA1A                         | BA1B                         |
| BA1E                          | BA1F                         | BA22                         |
| BA2A                          | BA2B                         | BA2C                         |
| BA32                          | BA39                         | BA3A                         |
| BA42                          | BA45                         | BA46                         |
| BA52                          | BA53                         | BA54                         |
| BA58                          | BA5B                         | BA5F                         |
| BA62                          | BA63                         | BA64                         |
| BA6F                          | BA7F                         | BB01                         |
|                               |                              | BA06                         |
|                               |                              | BA13                         |
|                               |                              | BA1C                         |
|                               |                              | BA26                         |
|                               |                              | BA2F                         |
|                               |                              | BA3F                         |
|                               |                              | BA4F                         |
|                               |                              | BA55                         |
|                               |                              | BA60                         |
|                               |                              | BA65                         |
|                               |                              | BA66                         |
|                               |                              | BA07                         |
|                               |                              | BA15                         |
|                               |                              | BA1D                         |
|                               |                              | BA29                         |
|                               |                              | BA31                         |
|                               |                              | BA41                         |
|                               |                              | BA51                         |
|                               |                              | BA56                         |
|                               |                              | BA61                         |
|                               |                              | BA66                         |

**Configuration Report (Service bit = ON)**



**Telephone Directory  
Print conditions**

|   |   |                             |
|---|---|-----------------------------|
| Number of OTs                             | 10  |                             |
| Number of ADs                             | 100   |                             |
| Number of groups                          | 10  |                             |
| Maximum number of digits of OT/AD Tel No. | 40  |                             |
| Maximum number of digits of OT OR Tel No. | 40  |                             |
| Maximum number of digits of Email         | 64 (Alphabetic small letters can be printed.) |                             |
| Email registered OT                       | All OTs (10)                                  |                             |
| Communication parameter                   | All OT/ADs excluding Email registered OT      |                             |
|   | G3-ECHO                                       | ON/OFF                      |
|   | G3-RATE                                       | 4.8K/9.6K/14.4K/28.8K/33.6K |
|   | MODE  | G3/G4                       |

(See section 4.11.7 for printed characters)

|          |                      |
|----------|----------------------|
| 1st page | OT1 ~ 10 + AD01 ~ 45 |
| 2nd page | AD46 ~ 70            |
| 3rd page | Group 1 ~ 5          |
| 4th page | Group 6 ~ 10         |

Report is output for registration pages corresponding to the above list.

**Example:**

- For OT registration / AD01-45 registration, Page1; OT + AD-1-45  
For registration as above in group, Page1: OT + AD01-45/Page2: Group
- For OT registration/AD01-45 registration/AD46 and succeeding registration, Page1:  
OT+AD01-45 and Page2; AD46-70  
For registration as above in group, Page1: OT + AD01-45/Page2: AD46-70/Page3: Group
- AD46 and succeeding registration, Page1: Only AD46 - 70  
For registration of in group, Page1: AD46-70/Page2: Group

# TELEPHONE DIRECTORY P1

02/14/2002 12:00  
ID=ODS

| ONE TOUCH | LOCATION ID              | TEL NO.  | G3-ECHO/G3-RATE/MODE |
|-----------|--------------------------|--|----------------------|
| 1         | ABCDEFGHIJKLMNO          | <input type="checkbox"/> 1234567890123456789012345678901234567890  | ON / 33.6K / G4      |
|           |                          | OR <input type="checkbox"/> 1234567890123456789012345678901234567890   |                      |
| 2         | OT2                      | <input type="checkbox"/> 123456789012345678901234567890  | OFF / 9.6K / G3      |
|           |                          | OR <input type="checkbox"/>  |                      |
| 3         | OT3                      | <input type="checkbox"/> 12345678901234567890  | ON / 33.6K / G4      |
|           |                          | OR <input type="checkbox"/>  |                      |
| 4         | OT4                      | <input type="checkbox"/> 12345678901234567890  | ON / 33.6K / G4      |
|           |                          | OR <input type="checkbox"/>  |                      |
| 5         | OT5                      | <input type="checkbox"/> 12345678901234567890  | ON / 33.6K / G4      |
|           |                          | OR <input type="checkbox"/>  |                      |
| 6         | 12345678901234567890     | <input type="checkbox"/> 1234567890123456789012345678901234567890@okidata.cp.jp<br>[SEND FILE FORMAT = TIFF / SENDER ID(EMAIL) = ON] |                      |
| 7         | 046vp@faxmfp.co.jp       | [SEND FILE FORMAT = TIFF / SENDER ID(EMAIL) = ON]  |                      |
| 8         | OT8                      | <input type="checkbox"/> 12345678901234567890  | ON / 33.6K / G4      |
|           |                          | OR <input type="checkbox"/>  |                      |
| 9         | okitakasaki@faxmfp.co.jp | [SEND FILE FORMAT = TIFF / SENDER ID(EMAIL) = ON]  |                      |
| 10        | OT10                     | <input type="checkbox"/> 12345678901234567890  | ON / 33.6K / G4      |
|           |                          | OR <input type="checkbox"/>  |                      |
| AUTO DIAL |                          |  |                      |
| 001       | ABCDEFGHIJKLMNO          | <input type="checkbox"/> 1234567890123456789012345678901234567890  | ON / 33.6K / G4      |
| 002       | AD02                     | <input type="checkbox"/> 123456789012345678901234567890  | ON / 33.6K / G4      |
| 003       | AD03                     | <input type="checkbox"/> 12345678901234567890  | ON / 33.6K / G4      |
| 004       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 005       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 006       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 007       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 008       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 009       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 010       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 011       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 012       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 013       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 014       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 015       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 016       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 017       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 018       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 019       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 020       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 021       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 022       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| <hr/>     |                          |  |                      |
| 041       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 042       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 043       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 044       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |
| 045       |                          | <input type="checkbox"/>   | ON / 33.6K / G4      |

# TELEPHONE DIRECTORY P2

02/14/2002 12:00  
ID=ODS

| AUTO DIAL | LOCATION ID | TEL NO.                          | G3-ECHO/G3-RATE/MODE |
|-----------|-------------|----------------------------------|----------------------|
|           | 046 AD46    | 12345678901234567890123456789012 | ON / 33.6K / G4      |
|           | 047 AD47    | 123456789012345678901234567890   | ON / 33.6K / G4      |
|           | 048 AD48    | 12345678901234567890             | ON / 33.6K / G4      |
|           | 049         |                                  | ON / 33.6K / G4      |
|           | 050         |                                  | ON / 33.6K / G4      |
|           | 051         |                                  | ON / 33.6K / G4      |
|           | 052         |                                  | ON / 33.6K / G4      |
|           | 053         |                                  | ON / 33.6K / G4      |
|           | 054         |                                  | ON / 33.6K / G4      |
|           | 055         |                                  | ON / 33.6K / G4      |
|           | 056         |                                  | ON / 33.6K / G4      |
|           | 057         |                                  | ON / 33.6K / G4      |
|           | 058         |                                  | ON / 33.6K / G4      |
|           | 059         |                                  | ON / 33.6K / G4      |
|           | 060         |                                  | ON / 33.6K / G4      |
|           | 061         |                                  | ON / 33.6K / G4      |
|           | 062         |                                  | ON / 33.6K / G4      |
|           | 063         |                                  | ON / 33.6K / G4      |
|           | 064         |                                  | ON / 33.6K / G4      |
|           | 065         |                                  | ON / 33.6K / G4      |
|           | 066         |                                  | ON / 33.6K / G4      |
|           | 067         |                                  | ON / 33.6K / G4      |
|           | 068         |                                  | ON / 33.6K / G4      |
|           | 069         |                                  | ON / 33.6K / G4      |
|           | 070         |                                  | ON / 33.6K / G4      |
|           | 071         |                                  | ON / 33.6K / G4      |
|           | 072         |                                  | ON / 33.6K / G4      |
|           | 073         |                                  | ON / 33.6K / G4      |
|           | 074         |                                  | ON / 33.6K / G4      |
|           | 075         |                                  | ON / 33.6K / G4      |
|           | 076         |                                  | ON / 33.6K / G4      |
|           | 077         |                                  | ON / 33.6K / G4      |
|           | 078         |                                  | ON / 33.6K / G4      |
|           | 079         |                                  | ON / 33.6K / G4      |
|           | 080         |                                  | ON / 33.6K / G4      |
|           | 081         |                                  | ON / 33.6K / G4      |
|           | 082         |                                  | ON / 33.6K / G4      |
|           | 083         |                                  | ON / 33.6K / G4      |
|           | 084         |                                  | ON / 33.6K / G4      |
|           | 085         |                                  | ON / 33.6K / G4      |
|           | 086         |                                  | ON / 33.6K / G4      |
|           | 087         |                                  | ON / 33.6K / G4      |
|           | 088         |                                  | ON / 33.6K / G4      |
|           | 089         |                                  | ON / 33.6K / G4      |
|           | 090         |                                  | ON / 33.6K / G4      |
|           | 091         |                                  | ON / 33.6K / G4      |
|           | 092         |                                  | ON / 33.6K / G4      |
|           | 093         |                                  | ON / 33.6K / G4      |
|           | 094         |                                  | ON / 33.6K / G4      |
|           | 095         |                                  | ON / 33.6K / G4      |
|           | 096         |                                  | ON / 33.6K / G4      |
|           | 097         |                                  | ON / 33.6K / G4      |
|           | 098         |                                  | ON / 33.6K / G4      |
|           | 099         |                                  | ON / 33.6K / G4      |
|           | 100         |                                  | ON / 33.6K / G4      |

# TELEPHONE DIRECTORY P3

02/14/2002 12:00

ID=ODS

GROUP NUMBER = #1 #2 #3 #4 #5

&lt;#1 ONE TOUCH&gt;

1 2 3 4 5 6 7 8 9 10

&lt;#1 AUTO DIAL&gt;

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
| 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 |
| 70 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

&lt;#2 ONE TOUCH&gt;

&lt;#2 AUTO DIAL&gt;

&lt;#3 ONE TOUCH&gt;

&lt;#3 AUTO DIAL&gt;

&lt;#4 ONE TOUCH&gt;

&lt;#4 AUTO DIAL&gt;

&lt;#5 ONE TOUCH&gt;

&lt;#5 AUTO DIAL&gt;

# TELEPHONE DIRECTORY P4

02/14/2002 12:00  
ID=ODS

GROUP NUMBER = #6 #7 #8 #9 #10

<#6 ONE TOUCH>

1 2 3 4 5 6 7 8 9 10

<#6 AUTO DIAL>

001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023  
024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 040 041 042 043 044 045 046  
047 048 049 050 051 052 053 054 055 056 057 058 059 060 061 062 063 064 065 066 067 068 069  
070 071 072 073 074 075 076 077 078 079 080 081 082 083 084 085 086 087 088 089 090 091 092  
093 094 095 096 097 098 099 100

<#7 ONE TOUCH>

<#7 AUTO DIAL>

<#8 ONE TOUCH>

<#8 AUTO DIAL>

<#9 ONE TOUCH>

<#9 AUTO DIAL>

<#10 ONE TOUCH>

<#10 AUTO DIAL>

G3 Protocol Dump Image

PROTOCOL DUMP P1

12/24/2002 19:00  
ID=OKI TAKASAKI

| DATE  | TIME  | S,R-TIME | DISTANT STATION ID       | MODE | PAGES | RESULT  |
|-------|-------|----------|--------------------------|------|-------|---------|
| 12/24 | 18:56 | 00'33"   | 123456789012345678901234 | TX   | 002   | OK 0000 |

| FCF | NSS     | PPS_MPS | PPS_EOP | DCN |
|-----|---------|---------|---------|-----|
| TX  |         |         |         |     |
| RX  | NSF DIS | CFR     | MCF     | MCF |
| TX  |         |         |         |     |
| RX  |         |         |         |     |
| TX  |         |         |         |     |
| RX  |         |         |         |     |
| TX  |         |         |         |     |
| RX  |         |         |         |     |

TRANSMITTED FRAME

```

DIS
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DTC
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DIS
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
NSF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
NSS
FF C8 C4 00 00 84 80 30 40 E4 10 40 B8 39 20 0C 0C 0C 0C 30 82 4A AA 82 42 92 12 CA 04 92 D2 F2
80 40 80 10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
NSC
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
CSI/CIG/TSI
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
SEP/SUB
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
SID
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
V34
CM JM
00 00 00 00 00 00 00 00

```

```

SYMBOL RATE(SPS) =
DATA SIGNALLING RATE(BPS) =

```

```

MODEM TRACE
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

Protocol Dump Report (G3)

# PROTOCOL DUMP P2

12/24/2002 19:00  
ID=OKI TAKASAKI

RECEIVED FRAME

DIS  
FF C8 01 00 73 17 22 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
DTC  
00  
DCS  
00  
NSF  
FF C0 04 00 00 84 80 08 40 F4 10 40 F9 7D 20 0C 0C 0C 0C 90 F2 52 72 F2 12 04 92 D2 F2 80 F0 80  
40 80 50 00  
00  
00 00 00 00  
NSS  
00  
00  
00  
00 00 00 00  
NSC  
00  
00  
00  
00 00 00 00  
CSI/CIG/TSI  
00  
SEP/SUB  
00  
SID  
00  
V34  
CM JM  
00 00 00 00 00 00 00 00

# BROADCAST ENTRY REPORT

09/06/2002 12:00  
ID=ODS

| LOCATION ID                                  | LOCATION ID                                  |
|--|--|
| <b>ONE TOUCH</b>                             |  |
| 1=1234567890123456789012345678901234567890   | 2=1234567890123456789012345678901234567890   |
| 3=OKI DATA CORP.                             | 4=1234567890123456789012345678901234567890   |
| 5=1234567890123456789012345678901234567890   | 6=0273265978                                 |
| 7=0273261234                                 | 8=0273267890                                 |
| 9=0273261447                                 | 10=0273265980                                |
| <b>AUTO DIAL</b>                             |  |
| 001=1234567890123456789012345678901234567890 | 002=1234567890123456789012345678901234567890 |
| 003=ODS                                      | 004=OKI DATA SYSTEM                          |
| 005=AD05                                     | 006=AD06                                     |
| 007=AD07                                     | 008=AD08                                     |
| 009=AD09                                     | 010=AD10                                     |
| 011=AD11                                     | 012=AD12                                     |
| 013=AD13                                     | 014=AD14                                     |
| 015=AD15                                     | 016=AD16                                     |
| 017=AD17                                     | 018=AD18                                     |
| 019=AD19                                     | 020=AD20                                     |
| 021=AD21                                     | 022=AD22                                     |
| 023=AD23                                     | 024=AD24                                     |
| 025=AD25                                     | 026=AD26                                     |

|          |           |
|----------|-----------|
| 071=AD71 | 072=AD72  |
| 073=AD73 | 074=AD74  |
| 075=AD75 | 076=AD76  |
| 077=AD77 | 078=AD78  |
| 079=AD79 | 080=AD80  |
| 081=AD81 | 082=AD82  |
| 083=AD83 | 084=AD84  |
| 085=AD85 | 086=AD86  |
| 087=AD87 | 088=AD88  |
| 089=AD89 | 090=AD90  |
| 091=AD91 | 092=AD92  |
| 093=AD93 | 094=AD94  |
| 095=AD95 | 096=AD96  |
| 097=AD97 | 098=AD98  |
| 099=AD99 | 100=AD100 |

**MANUAL**  
1234567890123456789012345678901234567890  
027324102  
027324103  
027324104  
027324105  
027324106  
027324107  
027324108  
027324109  
027324110



# BROADCAST CONFIRMATION REPORT

07/01/2002 17:05  
ID=OKI

PAGES = 01  
START TIME = 07/01 10:00  
TOTAL TIME = 00:02'30"

|           | LOCATION ID     | PAGES | RESULT | LOCATION ID  | PAGES | RESULT |
|-----------|-----------------|-------|--------|--------------|-------|--------|
| ONE TOUCH |                 |       |        |              |       |        |
|           | 1 = HEAD OFFICE | 01    | OK     | 2 = OT2      | 01    | OK     |
|           | 3 = OT3         | 01    | OK     | 4 = OT4      | 01    | OK     |
|           | 5 = OT5         | 01    | OK     |              |       |        |
| AUTO DIAL |                 |       |        |              |       |        |
|           | 001 = AD1       | 01    | OK     | 002 = AD2    | 01    | OK     |
|           | 003 = AD3       | 01    | OK     | 004 = GERMAN | 01    | OK     |
|           | 005 = AD5       | 01    | OK     |              |       |        |
| MANUAL    |                 |       |        |              |       |        |
|           | 1234            | 01    | OK     |              |       |        |
|           | 3456            | 01    | OK     |              |       |        |
|           | 5678            | 01    | OK     |              |       |        |

Broadcast Confirmation Report

# POWER OUTAGE REPORT

07/01/2002 17:05  
ID=OKI

| DATE  | TIME  | S,R-TIME | DISTANT STATION ID | MODE    | PAGES | RESULT |      |
|-------|-------|----------|--------------------|---------|-------|--------|------|
| 06/30 | 10:10 |          | 0485-88-3385       | TX      | 01    | LOST   |      |
| 06/30 | 10:30 |          | ODS TAKASAKI       | TX      | 03    | LOST   |      |
| 06/30 | 12:05 | 01'20"   | OKI FAX            | CONF=01 | 03    | LOST   | 0000 |
| 06/30 | 13:00 | 00'20"   | 03-5476-4300       | RX      | 01    | LOST   | 0000 |
| 06/30 | 10:50 | 01'20"   | 0495-22-5400       | RX      | 03    | LOST   | 0000 |
| 06/30 | 15:00 |          |                    | B.C.    | 01    | LOST   |      |

**Note:** Memory receipt only is printed on the mode in the report as called.

POWER OUTAGE REPORT

# CONFIDENTIAL RX REPORT

07/01/2002 17:05  
ID=OKI

| DATE  | TIME  | S,R-TIME | DISTANT STATION ID | MODE    | PAGES | RESULT  |
|-------|-------|----------|--------------------|---------|-------|---------|
| 07/01 | 17:00 | 00'00"   | OKI FAX            | CONF=01 | 02    | OK 0000 |

Confidential RX Report

07/01/2002

09:24

OKI SHIBAURA → OKI HONJO

NO.002

**PLEASE CALL BACK**

OKI SHIBAURA

03 5476 1234

**Call Back Message**

**Self Diagnosis Report****Print conditions**

- 1) The following self diagnosis results are always printed.
  - CPU - ROM, FLASH - PROGRAM / LANGUAGE / DEFAULT version read and hush check.
  - CPU-RAM, FLASH - RAM read/write check
  - Image processor LSI RAM check
  - Setting DEFAULT TYPE and reading clock at self diagnosis execution.
- 2) The following printing differs depending on the condition of option provided or not.
  - \*1 Printed only when MFP option is provided. "MFG:," "MDL:," and "DES:" information is printed out of ID character strings of PnP device. Small letters can be printed. The maximum number of each of letters and characters shall be 45.
  - \*2 Printed only when ISDN option is provided.  
When performing self diagnosis, ISDN board test is executed and its result (error information at power on is partially adopted) is printed.  
The print contents at ISDN error are as shown below.

|            |    |    |
|------------|----|----|
| ISDN BOARD | NG | nn |
|------------|----|----|

ISDN board details information is printed when nn = 04 or 05.

nn=01: Waiting PC loading

When turning on power, BOOT2 signal from HOST side was in PC loading mode.

nn=02: Board faulty

When turning on power, PROGRAM HUSH of ISDN board was no good.

nn=03: Board faulty

Initial sequence between boards was not executed in spite of elapse of 10 seconds after turning on power. (Status window did not obtain normal value.)

nn=04 Board faulty

Initial sequence of ISDN LSI was not executed when turning on power. (No response to command, Response no good)

nn=05: ISDN LSI faulty

ISDN LSI test function (ROM/RAM test, loop test) resulted no good.

- \*3 Indicate when installed with an I-FAX NIC option.

Perform an I-FAX NIC option test upon self-diagnosing and indicate the results.

The indications upon generating an I-FAX NIC option error are listed below.

|           |    |    |
|-----------|----|----|
| I-FAX NIC | NG | nn |
|-----------|----|----|

- \*4 Indicate when installed with an I-FAX NIC option. (Separate versions by inserting a hyphen (-) in between.)  
Indicate the F/W version for an I-FAX NIC option in six digits.  
Indicate the boot block version for an I-FAX NIC option in four digits.  
Indicate the hardware version for an I-FAX NIC option in three digits.  
Only the set value upon an I-FAX NIC option board error is to be blank.
- \*5 Indicate the MAC address when installed with an I-FAX NIC option.  
Only the set value upon an I-FAX NIC option board error is to be blank.
- \*6 Indicate the title when installed with a 1284 board. The indicated line is to be in the same position as \*5 (line indicating I-FAXING NIC option data).

The image when installed with a 1284 board.

CPU-ROM VERSION aaaa  
HASH OK hhhh

CPU-RAM OK

PROGRAM VERSION aaaa  
HASH OK hhhh

LANGUAGE VERSION aaaa  
HASH OK hhhh

DEFAULT VERSION aaaa  
HASH OK hhhh

RAM1 OK

RAM2 OK

DEFAULT TYPE 01 11/01/2002 12:00

MODEM VERSION hhhh

1284 BOARD \*6

DEVICE ID MFG:OKI DATA CORP; \*1  
MDL:OKIFAX 4580; \*1  
DES:OKI OKIFAX 4580; \*1

ISDN BOARD OK

CPU-ROM VERSION aaaa  
HASH OK hhhh

CPU-RAM OK

PROGRAM VERSION aaaa  
HASH OK hhhh

RAM 2M OK

DPRAM 2K OK

a: Alphabet and digit  
h: Hexadecimal numeral  
n: Digit

\*2

Letter size with 23mm bottom margin.

The image when installed with an I-FAX NIC option.

CPU-ROM VERSION aaaa  
HASH OK hhhh

CPU-RAM OK

PROGRAM VERSION aaaa  
HASH OK hhhh

LANGUAGE VERSION aaaa  
HASH OK hhhh

DEFAULT VERSION aaaa  
HASH OK hhhh

RAM1 OK

RAM2 OK

DEFAULT TYPE 01 11/01/2002 12:00

MODEM VERSION hhhh

I-FAX NIC OK mn \*3

PROGRAM VERSION aaaaaa-nnnn-nnn \*4

MAC ADDRESS 00.C0.26.39.23.38 \*5

ISDN BOARD OK

CPU-ROM VERSION aaaa  
HASH OK hhhh

CPU-RAM OK

PROGRAM VERSION aaaa  
HASH OK hhhh

RAM 2M OK

DPRAM 2K OK

a: Alphabet and digit  
h: Hexadecimal numeral  
n: Digit

Letter size with 23mm bottom margin.

Protocol Dump

The printing image is as follows:

PROTOCOL DUMP P1

08/25/2002 19:00
ID=OKI TAKASAKI

DATA TIME S,R-TIME DISTANT STATION ID MODE PAGES RESULT
04/19 14:49 00'07" OKI SHIBAURA(6412) TX-G4 02 OK 0000

Dch.

TX SETUP CONN-ACK +Bch+ DISC REL-C
RX STATUS SETUP-ACK CONN +Bch+ REL
TX
RX

Bch.

TX SABM SQ CR TCR CSS CDCL CDS CDUI CDPB CDUI CDPB CDUI CDPB CDUI
CDUI
RX UA SF CC TCA RSSP RDCLP RDPBP RDPBP RDPBP
TX CDE CQ DISC
RX RDEP CF UA
TX
RX
TX
RX

COMMN MODE
T.90

COMMN SPEED
64 kbps

FLOW CONTROL PARAM.
2048(SPS)/7(SWS)/2048(RPS)/7(RWS)

TID
081-0273242117 =OKITAKASAKI

SETUP

08 01 05 05 04 02 88 90 6C 02 00 80 70 0B 80 30 32 37 33 32 38 30 30 30 31 7C 03 88 90 A9 7D 02
91 A1 00
00 00
00 00
00 00
00 00
00 00

DISC
45 16

Protocol Dump P1 (G4)



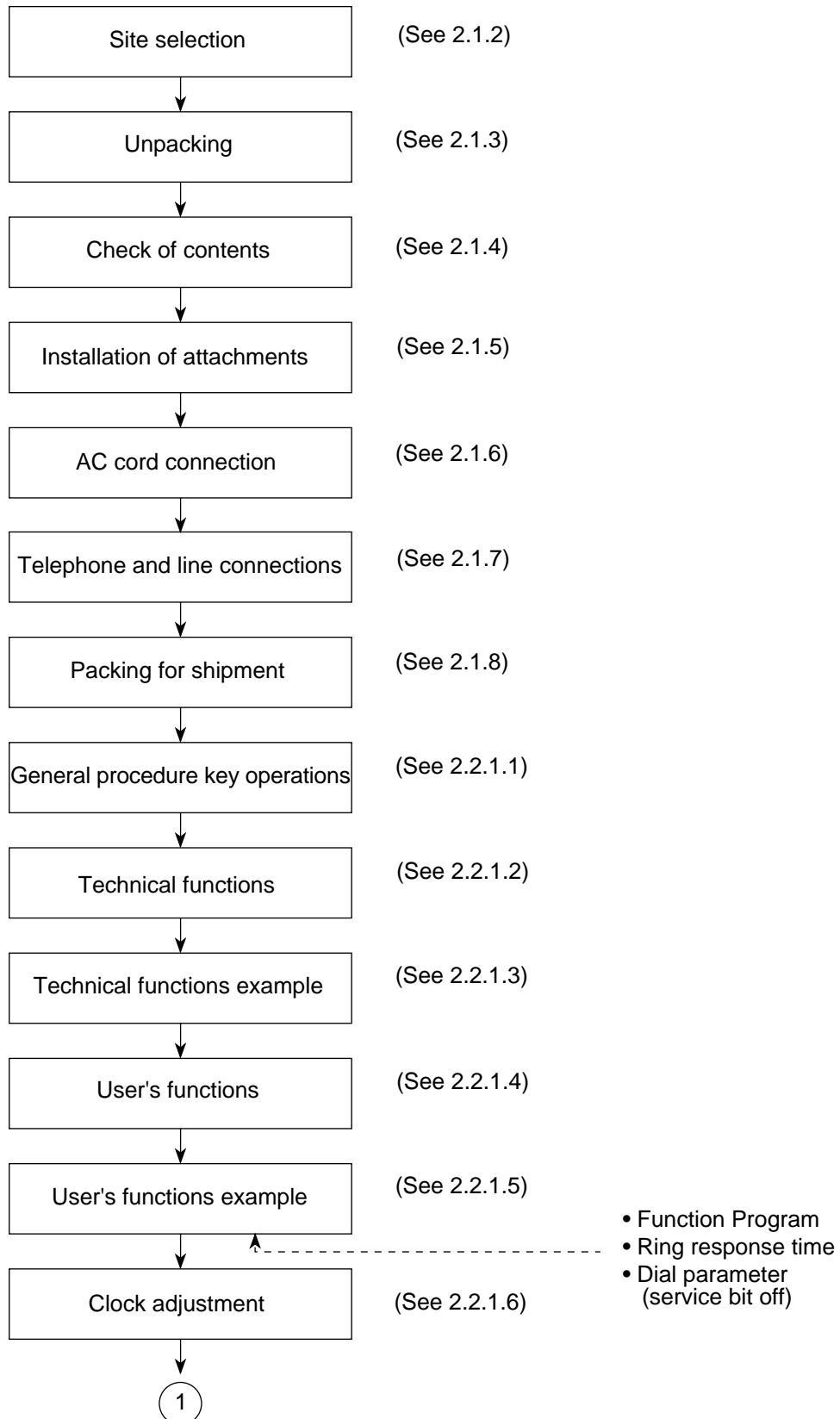


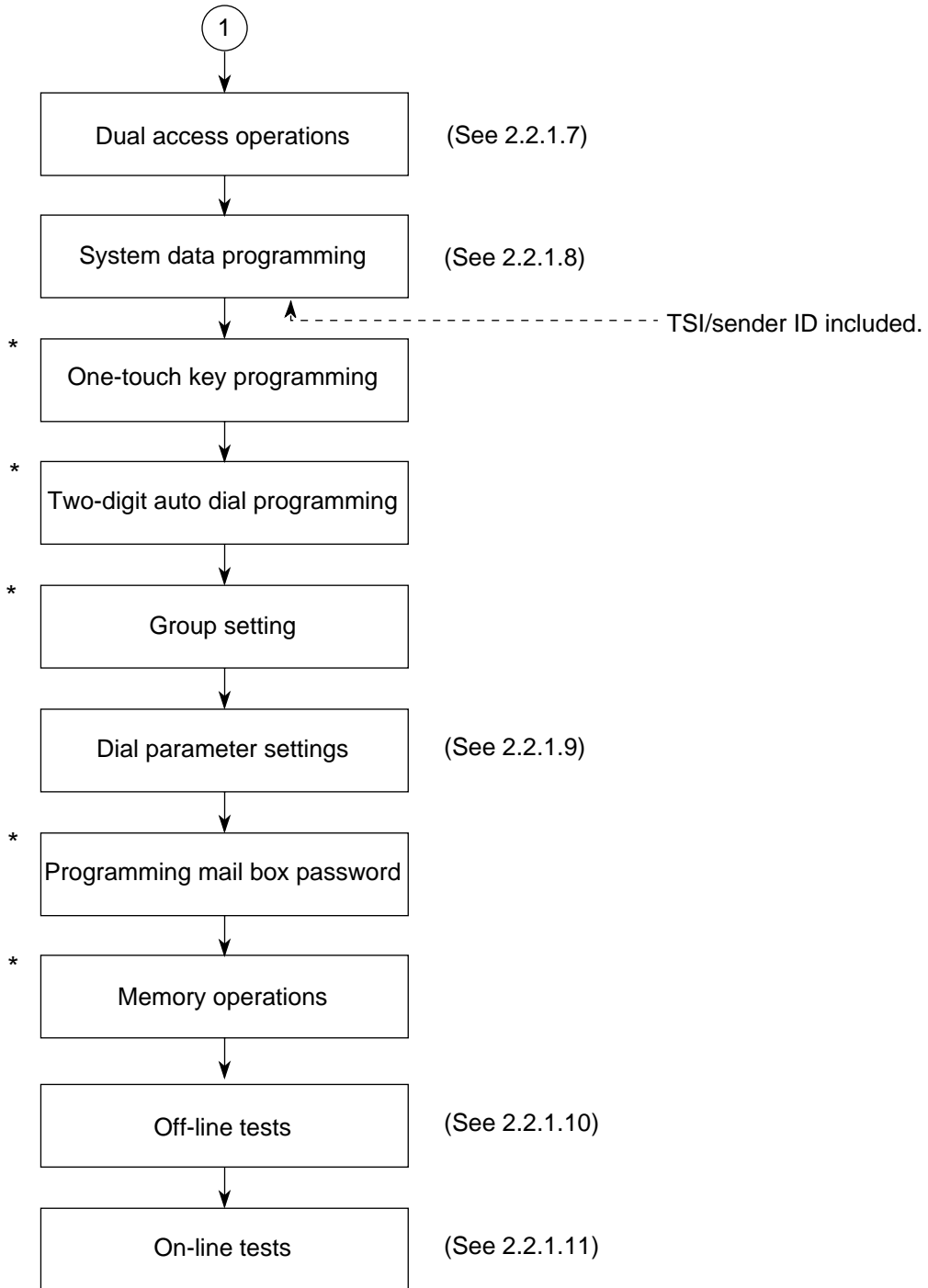
## 2. INSTALLATION PROCEDURE

### 2.1 Setup Information

#### 2.1.1 General

The following flowchart outlines the installation procedure.





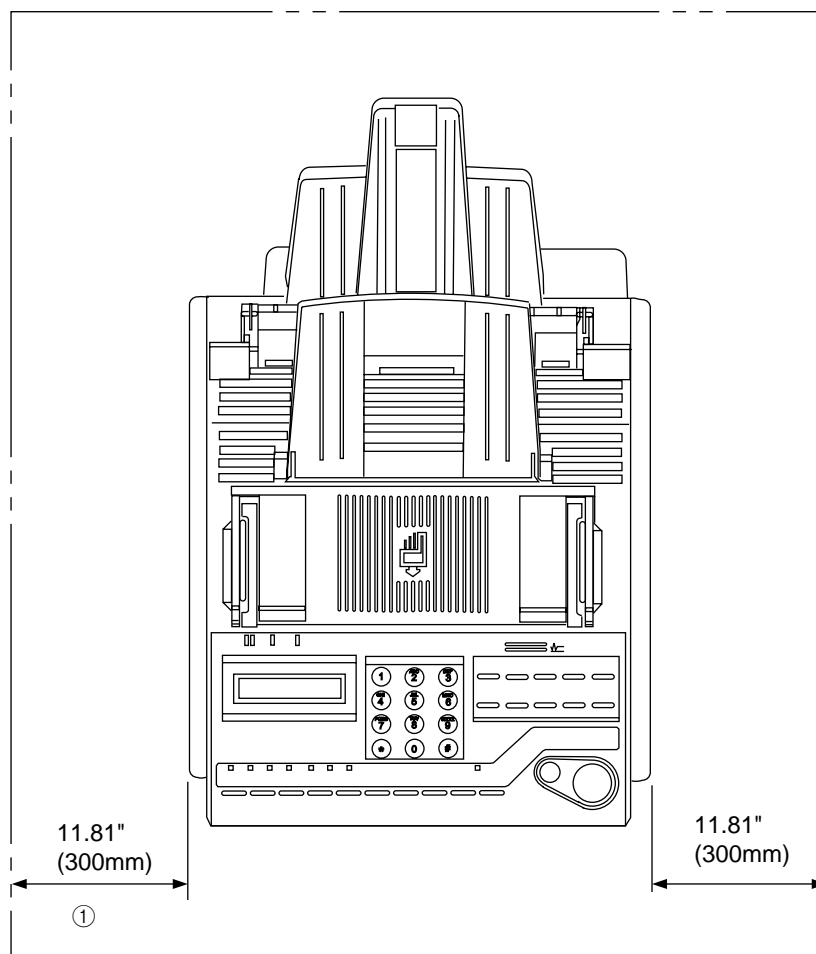
\* : See user's guide

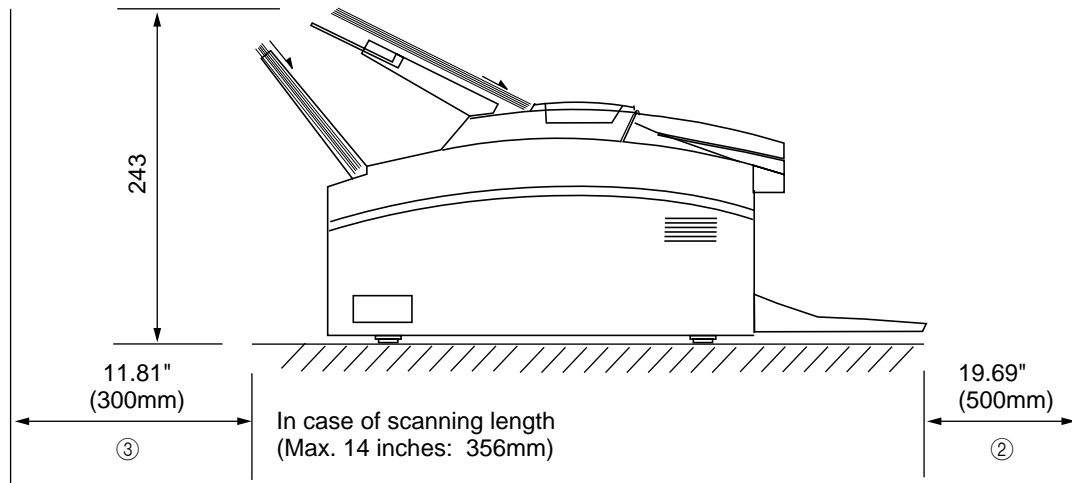
## 2.1.2 Site Selection

### INSTALLATION

#### Precautions for Installation

- (1) Fluctuation in line voltage
  - 120VAC (102V to 127V)
  - 230VAC (198V to 264V)
- (2) Room temperature  
50 to 90°F (10 to 32°C)
- (3) Humidity  
20 to 80% RH
- (4) Operating environment  
Pressure: Equivalent to altitude of 2500 m and below.
- (5) Exposure  
Within five minutes at luminous intensity 2,000 lux (with the stacker cover opened).
- (6) Required space for installation  
The facsimile requires the space as shown below for safety and good operability.





- Note:**
- ① This space is necessary for having the telephone set. (page 62)
  - ② This space is necessary for installing the document stacker.
  - ③ This space is necessary for ventilation.

(7) Levelness of installation surface  
1 degree max.

(8) Other requirements

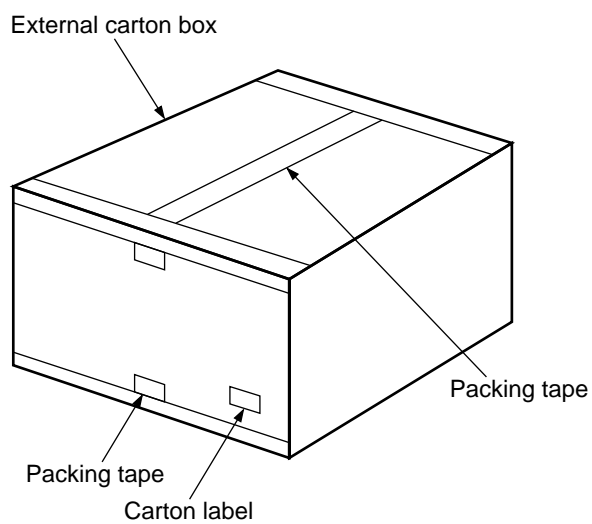
Avoid installing in any of the following places:

- A place exposed to direct sunlight
- A place near a heat source or exposed to vibration
- A dusty place
- A place in the atmosphere of acid gas, or steam etc.,
- A place exposed to quick temperature changes

### 2.1.3 Unpacking

#### Procedure

- (1) Remove tape on the top of the carton box and open its cover.



**Figure 2.1 (1/2) Unpacking Procedure**

- (2) Take out the accessory box from the carton box.  
(See Figure 2.1)
- (3) Take out the machine with plastic wrapper from the box.

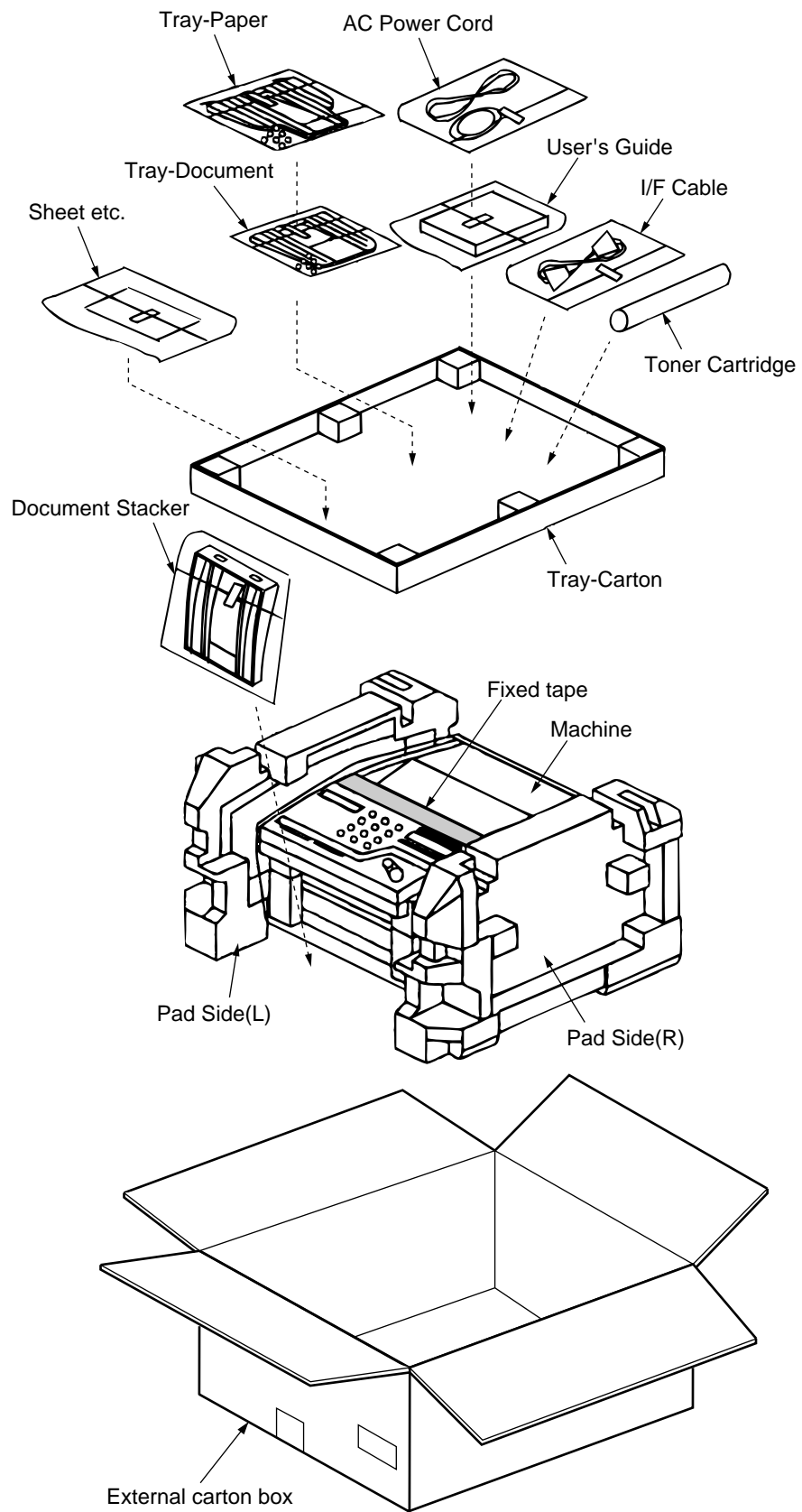


Figure 2.1 (2/2) Unpacking Procedure

#### 2.1.4 Identification Contents

After having taken out the machine and accompanied accessories from the carton box, check the contents according to the following list:

**Table 2.1 Contents List**

| Item No. | Name             | Q'ty   | Remarks            |
|----------|------------------|--------|--------------------|
| 1        | OKIFAX 4580      | 1      |                    |
| 2        | AC power cord    | 1      |                    |
| 3        | I/D unit         | 1      | Already installed. |
| 4        | Toner cartridge  | 1      |                    |
| 5        | Line cord        | 1      |                    |
| 6        | One touch sheet  | 1      | Already installed. |
| 7        | User's guide     | 1 vol. |                    |
| 8        | Tray paper       | 1      |                    |
| 9        | Tray document    | 1      |                    |
| 10       | Document stacker | 1      |                    |



## 2.1.5 Installation of Attachments

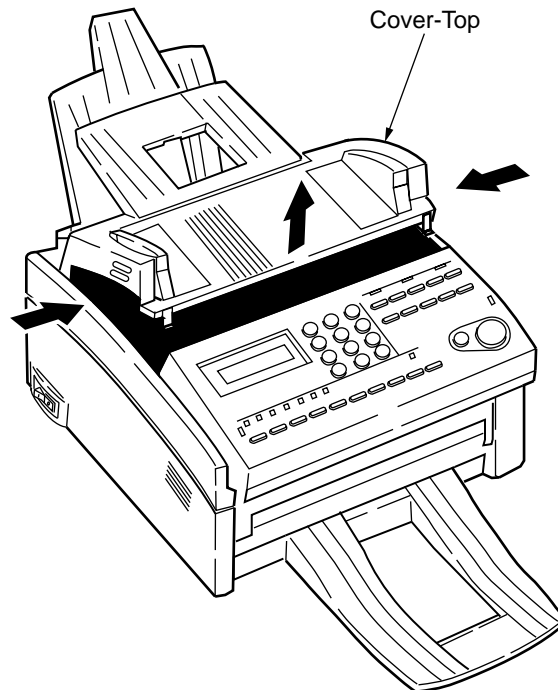
### (1) Items

- Image Drum (ID) Unit (already installed)
- Toner cartridge
- Recording paper
- Tray-paper, Tray-document and Document-stacker

### (2) Procedure

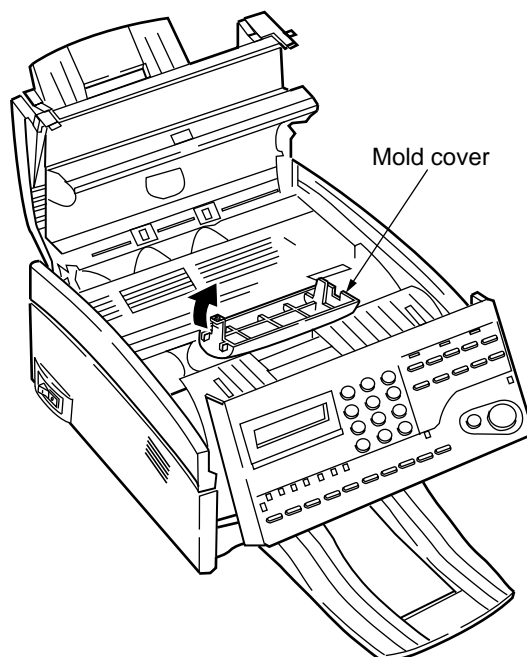
#### 1) Toner cartridge

- Peel off the fixed tape attached to the cover-top.
- Open the cover-top.



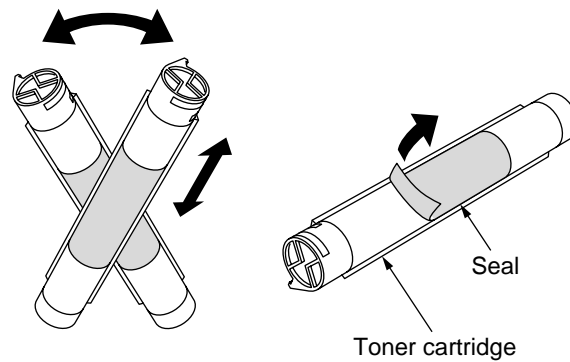
**Figure 2.2 Toner Cartridge Installation (1)**

- Take the plastic cover out of the ID unit.



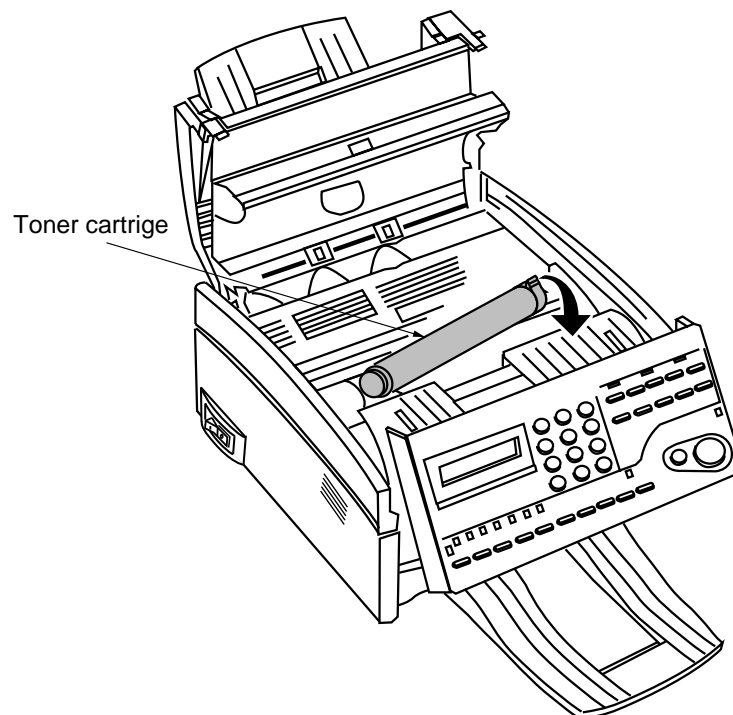
**Figure 2.2 Toner Cartridge Installation (2)**

- Take out the toner cartridge from the damp proof bag, shake it five or six times as shown in the illustration to eliminate the toner deflection, and peel off the seal gently.



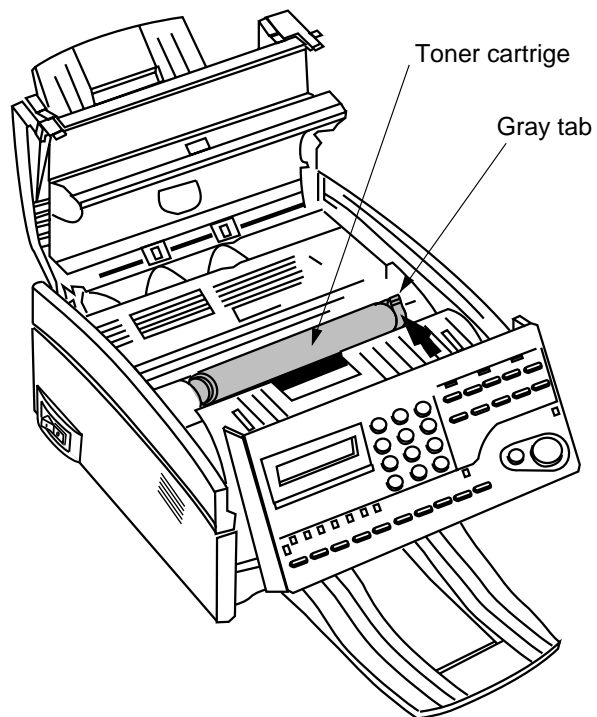
**Figure 2.2 Toner Cartridge Installation (3)**

- Ensure that the plastic tab on the right-hand side of the toner cartridge recess lines up with the groove on the toner cartridge.
- Press down on both ends to make sure the cartridge is fully seated.



**Figure 2.2 Toner Cartridge Installation (4)**

- Push the gray tab forward until it stops.



**Figure 2.2 Toner Cartridge Installation (5)**

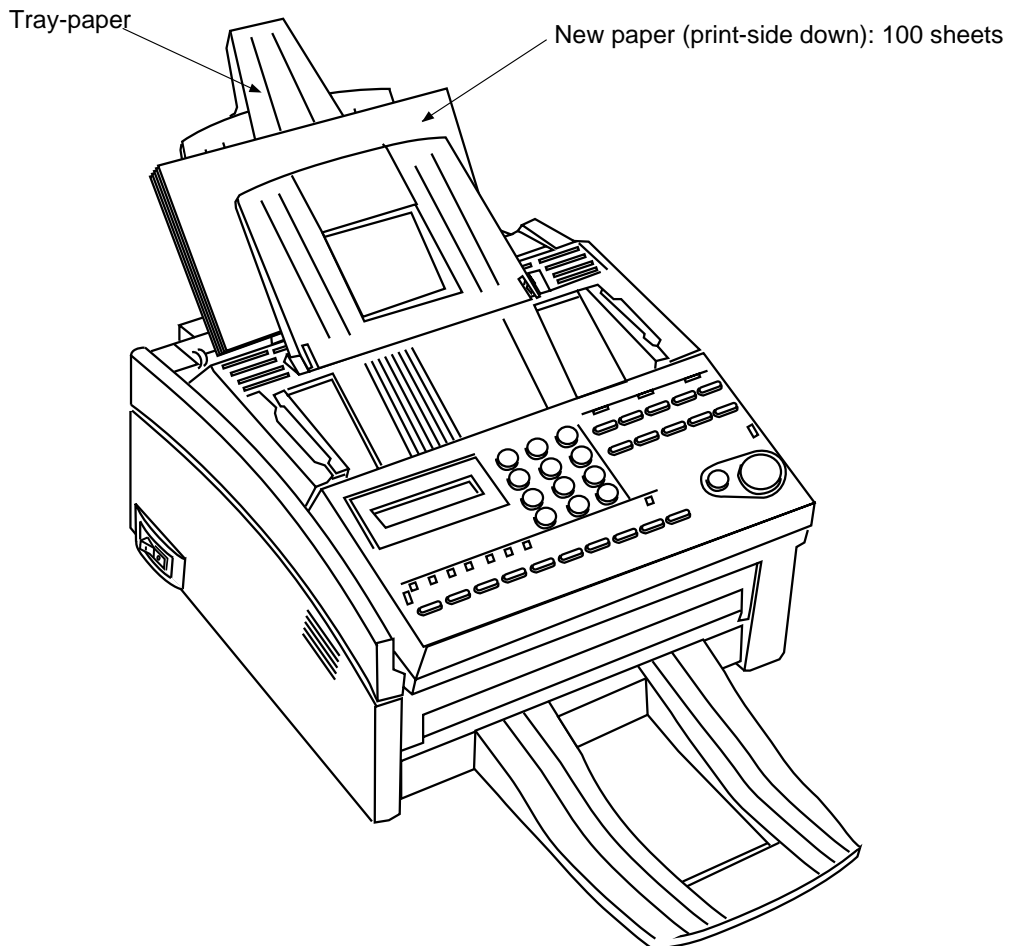
- Clean the toner scattered in the vicinity of the toner cartridge using a cloth moistened with cold water. Do not use hot water since it makes the toner stick there.
- Close the cover assembly-top until the buttons have been locked completely.

(3) Recording paper

**Note:** About 100 sheets of the new paper can be set on the tray-paper.

Loading the new paper.

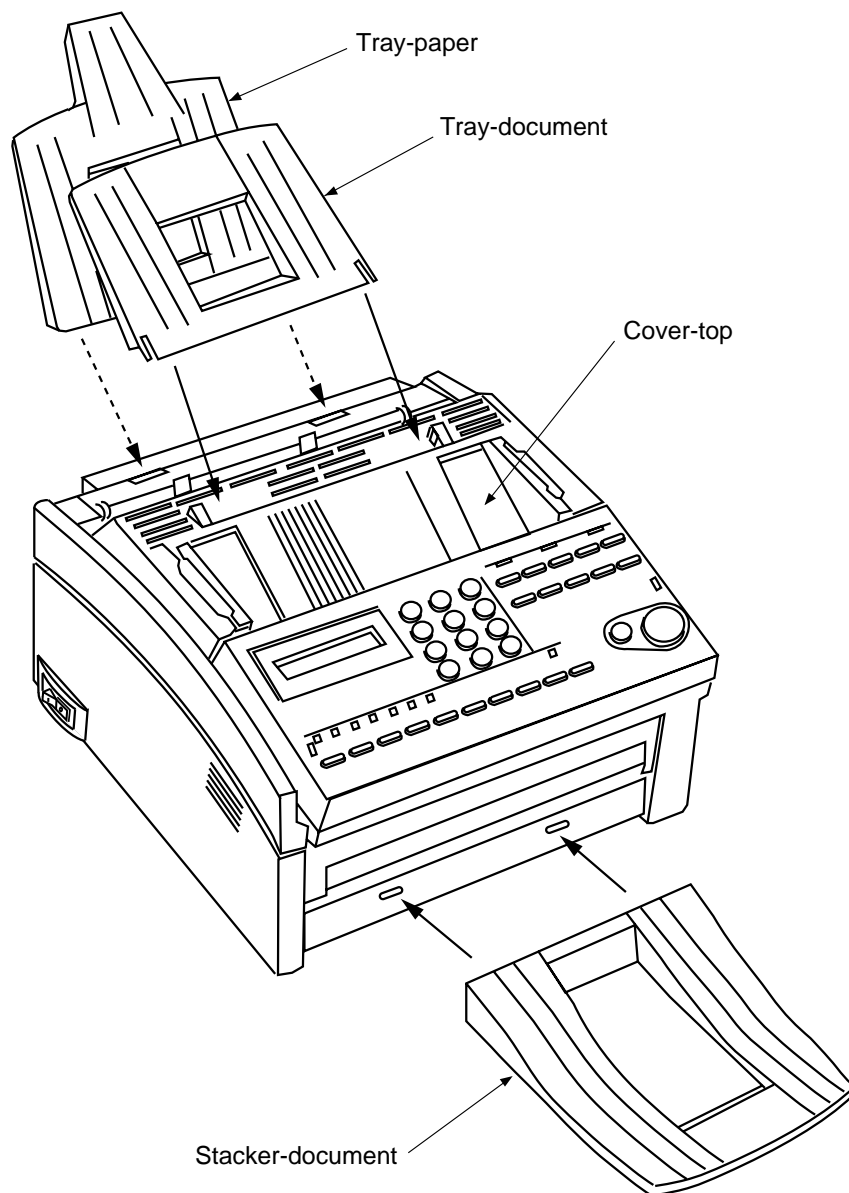
Sheets must not exceed 100 sheets of the new paper on the tray-paper. If excessive sheets are set, it will cause paper jams.



**Figure 2.3 Recording Paper Cassette Installation**

(4) Tray-paper, Tray-document and Document-stacker

- Hang the tray-paper, the tray-document and the stacker-document onto hanging position.



**Figure 2.4 Document Stacker Installation**

## 2.1.6 AC Cord Connection

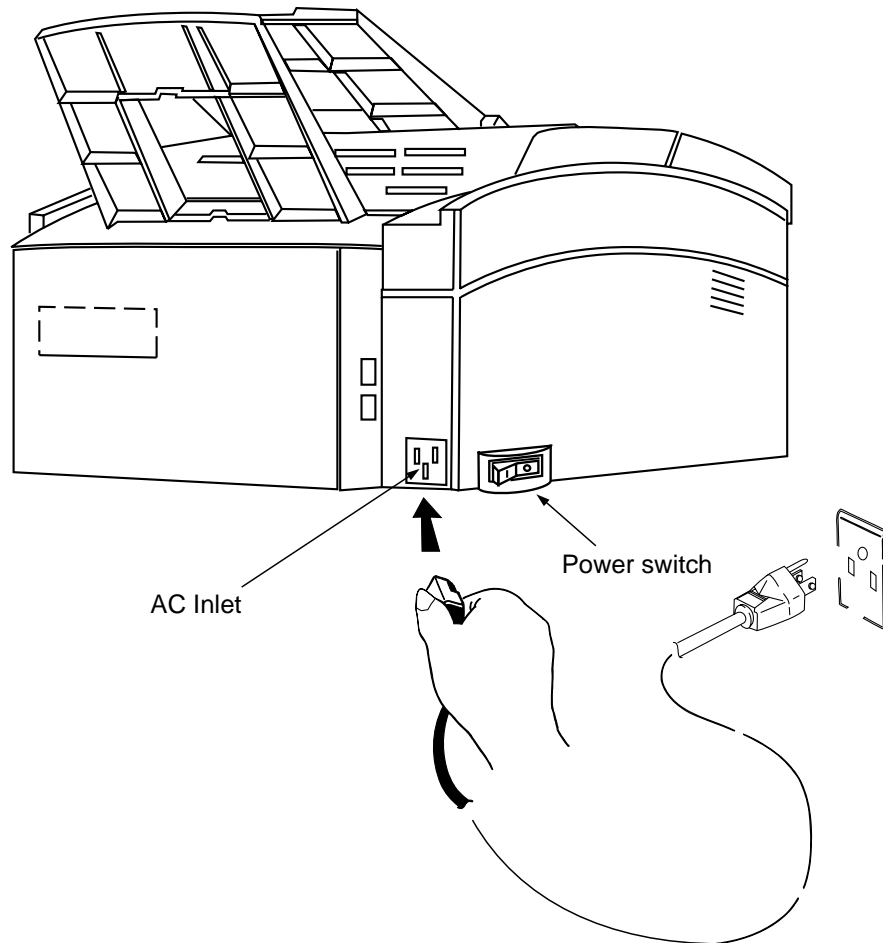
The power supply is provided as follows.

Nominal input voltage 120VAC (Voltage range 102 to 127VAC)

Nominal input voltage 230VAC (Voltage range 198 to 250VAC)

Check whether the AC voltage of your input is within the above-mentioned voltage range and if so, check that the power switch is turned OFF. After turning off the power switch, connect the female plug of the AC cord to the machine and insert the male plug of the AC cord to the inlet receptacle.

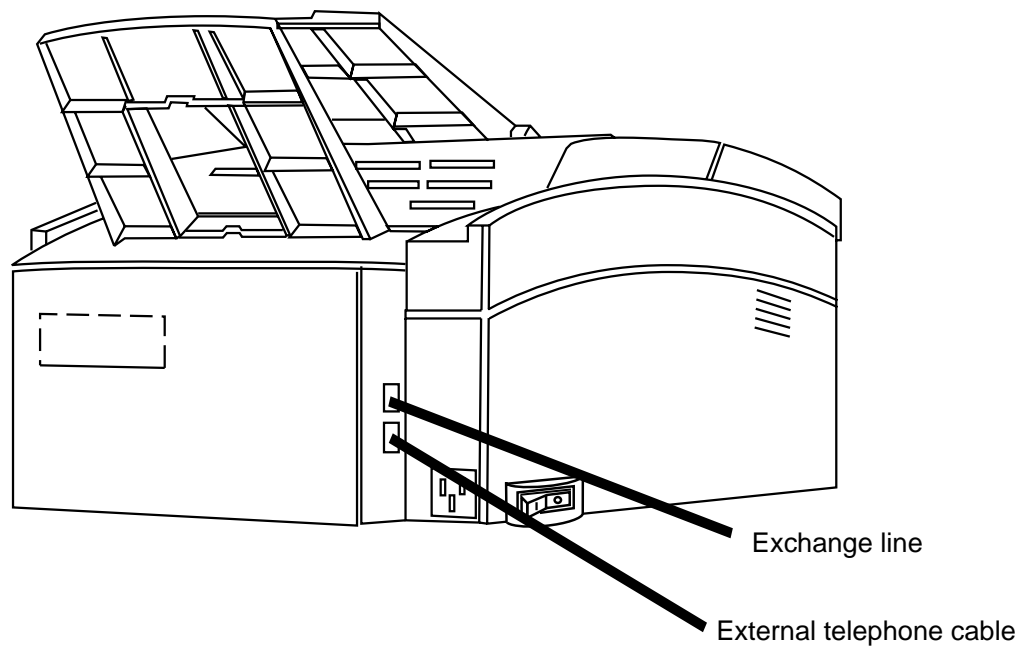
Turn the power switch ON and check that the display shows “(Time)” message indicating the standby mode.



## 2.1.7 Telephone and Line Connections

### (1) Procedure

- Connect the lines.



**Figure 2.5 Telephone and Line Connections**

## 2.1.8 Packing for Shipment

**CAUTION:** When packing the OKIFAX 4580 for shipment, REMOVE THE IMAGE DRUM AND TONER FROM THE UNIT AND SHIP SEPARATELY! Failure to do this will result in damage to the machine.

## 2.2 Programming and Initial Settings

### 2.2.1 Initial Settings

#### 2.2.1.1 General Procedure of Key Operation

Figure 2.6 shows the general procedure of key operation.

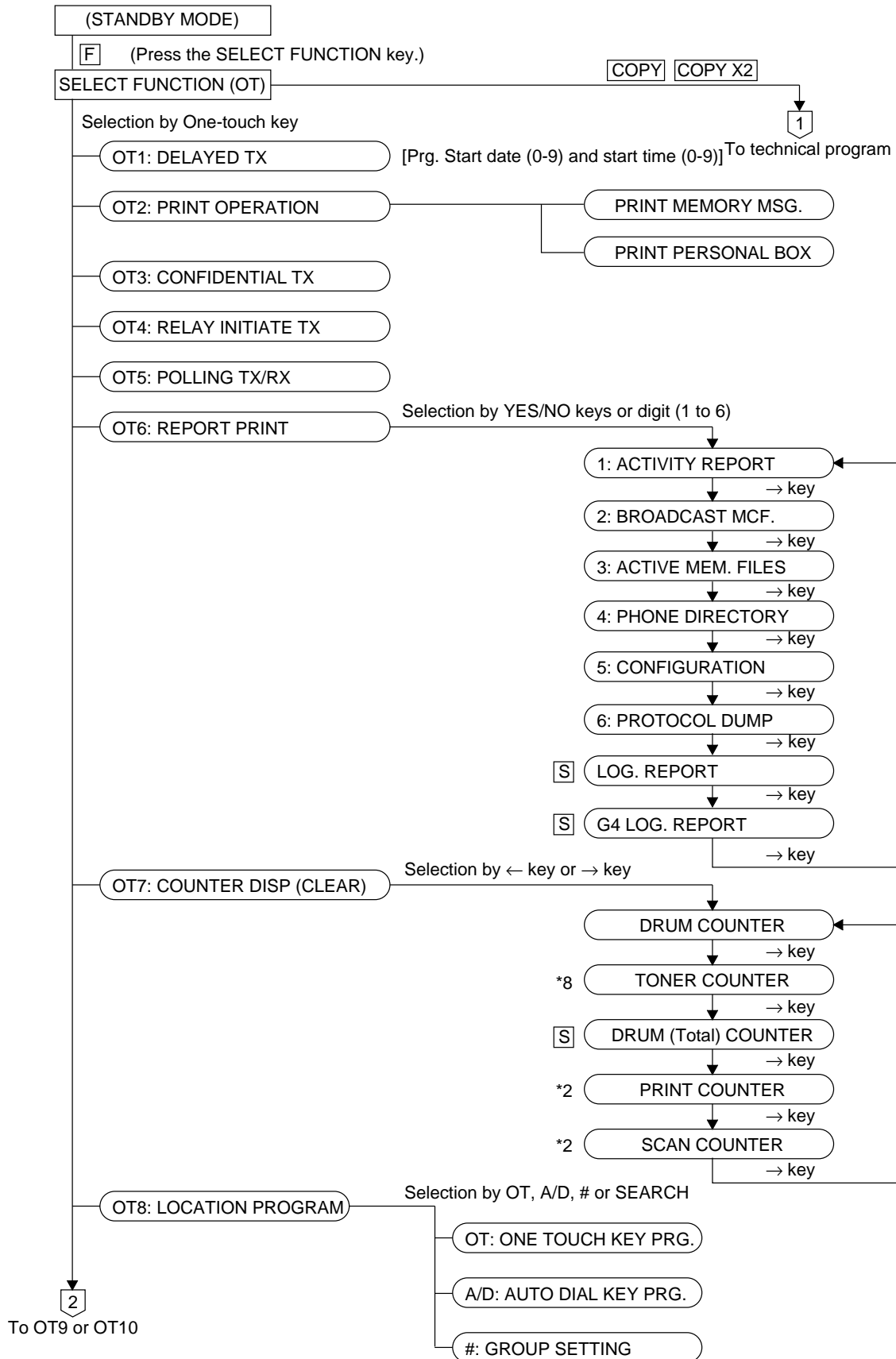


Figure 2.6 (1/3)



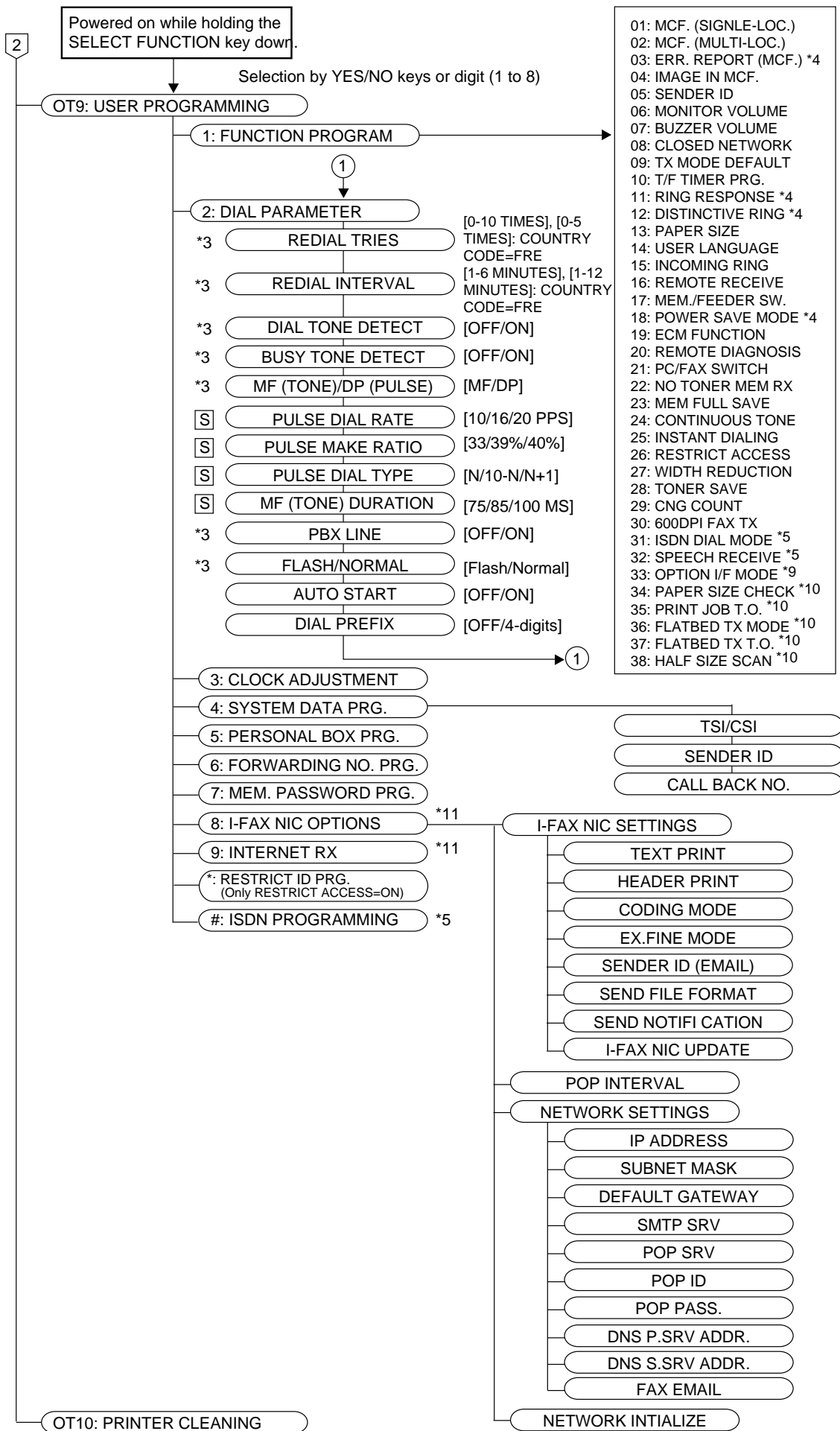


Figure 2.6 (2/3)

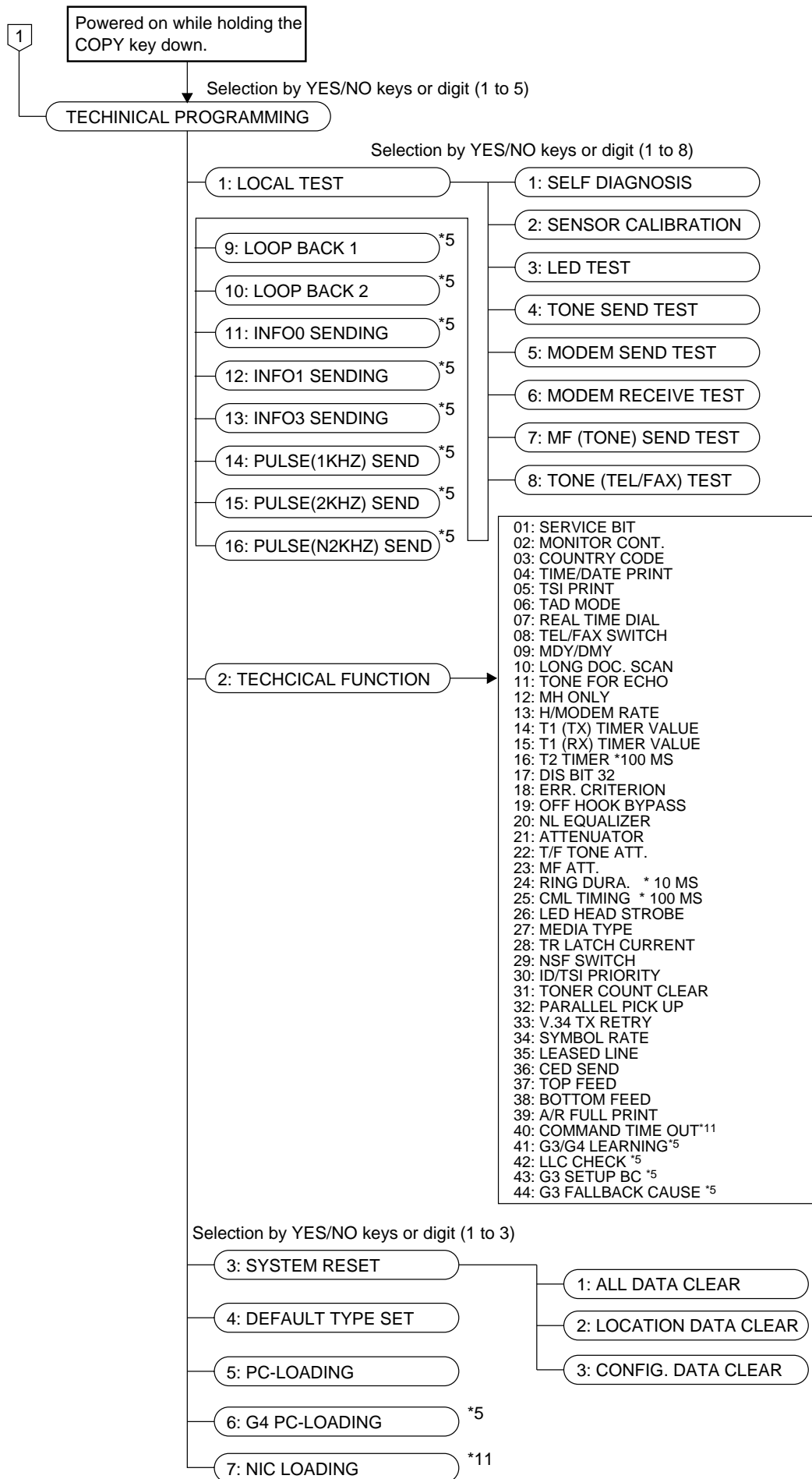


Figure 2.6 (3/3)

**Note:** When the machine is in POWER SAVE MODE, the machine returns to standby mode by pressing the START key.

\*2: User can read no. of counter in LCD but can not clear.

\*3: User can not select in some countries.

\*4: When the service bit is set to OFF, ERR. REPORT (MCF.) of No. 03, RING RESPONSE of No. 11, DISTINCTIVE RING of No. 12 and POWER SAVE MODE of No. 18 are bypassed to the next function No. in some countries.

\*5: Only when G4 opt. is installed.

\*8: Displayed when TONER CONT CLEAR=ON or Service bit=ON.

\*9: Displayed only when installed with a 1284 option.

\*10: Displayed only when installed with a 1284 option when OPTION I/F MODE=SCN. or NET.

\*11: Displayed only when installed with an I-FAX NIC option.

☐: Effective if the service bit is set to ON.

### 2.2.1.2 Technical Functions

This section explains setting items generally conducted by service personnel, not by users.

Table 2.2 shows the initial setting items and their purposes. (The default setting is different by the individual countries.)

Each item can be accessed by entering the corresponding service number on Technical Function.

The detailed procedures of the initial setting items will be explained on the following pages.

**Note 1:** S-ON: Effective if the service bit has been set to ON.

FP: Function program setting

TF: Technical function setting

**2:** The fonts displayed on the LCD operation panel may differ from fonts written this manual.

Table 2.2 (1/8) Service Personnel Initial Settings

| T.F. No. | Item                 | Specifications   |
|----------|----------------------|--|
| 01       | Service bit          | <p>Switching serviceman/user operation.</p> <p>ON : Service personnel's features are available.<br/>OFF : Service personnel's features are not available.</p> <p>To enable or disable the following functions:</p> <ul style="list-style-type: none"> <li>• Drum (Total, Print, Scan), and toner counter clear</li> <li>• Dial parameters</li> <li>• etc</li> </ul>  |
| 02       | Line monitor control | <p>Changing the audible monitoring range.<br/>FP +06 (To select the loudness of monitoring)</p> <p>ON : Enable<br/>OFF : Disable</p> <p><b>Note:</b> In case of transmission mode, the monitor will be available during dialling, but the monitor will be switched off automatically after the elapse of specified time (about 5 sec.). However, when TF02 is set to ON, the monitor is available during communication also.</p> |
| 03       | Country code         | <p>Selecting the following country code:<br/>USA, INT'L, GBR, IRL, NOR, SWE, FIN, DEN, GER, HUN, TCH, POL, SUI, AUT, BEL, HOL, FRE, POR, ESP, ITA, GRE, AUS, NZL, SIN, HNG, LTA, MEX, CHN, RUS, TWN</p>  |
| 04       | Time and date print  | <p>Enables or disables the function of printing local date and time at the top of the received page.</p> <p>OFF/ONCE/ALL selectable.<br/>OFF: Time and date are not printed<br/>ONCE: Time and date are printed at the top of the first page only.<br/>ALL: Time and date are printed at the top of every page.</p> <p><b>Note:</b> Set at receiver.</p>   |
| 05       | TSI print            | <p>Switches the function of printing TSI data from remote fax onto the received pages. TSI is printed at the leading edge of first reproduced copy. (Set at receiver.)<br/>When TF04 is set to "ALL", TSI is printed for the all received pages.</p> <p>ON : Enable<br/>OFF : Disable</p> <p>(Reference)<br/>TSI; Transmitting Subscriber Identification</p>   |

Table 2.2 (2/8) Service Personnel Initial Settings

| T.F. No. | Item   | Specifications  |
|----------|--|---|
| 06       | TAD mode<br>(For external telephone answering device.) | <p>Switches an automatic voice message response to the calling station.<br/>TAD mode is of three types (TYPE1/TYPE2/TYPE3).</p> <p>OFF/TYPE1/TYPE2/TYPE3 selectable.</p> <p>TYPE1 means:</p> <ol style="list-style-type: none"> <li>1. RING comes.</li> <li>2. The TAD answers, returns the recorded voice message in TAD to calling party.</li> <li>3. The FAX machine will continue to detect CNG signal while TAD works.</li> <li>4. If the FAX machine detects CNG signal, the fax will go into normal receiving mode.</li> <li>5. Even though the fax does not detect CNG signal, the fax will go to receiving mode in hook-on condition.</li> </ol> <p>TYPE2 means:<br/>The operations of No. 1 to No. 4 are the same as those of TYPE 1.</p> <ol style="list-style-type: none"> <li>5. If the fax does not detect CNG signal during working of TAD, the machine will go to standby mode.</li> </ol> <p>TYPE3 means:<br/>The operations of No. 1 to No. 2 are the same as those of TYPE 1.</p> <ol style="list-style-type: none"> <li>3. The fax does not detect CNG signal during 15 seconds from TAD operation starting.</li> <li>4. The fax starts CNG detection after 15 seconds from TAD operation. If the CNG is detected, the fax goes to the normal receive mode.</li> <li>5. If the fax does not detect the CNG during TAD operation, the fax goes to standby mode.</li> </ol> |
| 07       | Real time dialing                                      | <p>Enables or disables the real time dialling.<br/>3 types selectable. (OFF/TYPE1/TYPE2)</p> <p>TYPE1: Real-time dialling is available when the telephone handset is OFF-HOOK.</p> <p>TYPE2: Real-time dialling is available when the telephone handset is OFF-HOOK or HOOK key is pressed.</p>   |
| 08       | TEL/FAX switching                                      | <p>Enables or disables the TEL/FAX automatic switching.</p> <p>ON : Enable<br/>OFF : Disable</p> <p>(Related item: FP10, TF22)</p>  |

Table 2.2 (3/8) Service Personnel Initial Settings

| T.F. No.        | Item                   | Specifications  |                 |     |    |                |     |    |               |       |         |               |     |    |
|-----------------|------------------------|---|-----------------|-----|----|----------------|-----|----|---------------|-------|---------|---------------|-----|----|
| 09              | MDY/DMY                | Switches LCD display and report print from month/day/year to day/month/year or vice versa.<br>MDY/DMY selectable.   |                 |     |    |                |     |    |               |       |         |               |     |    |
| 10              | Long document SCAN     | Switches the function of transmitting long-size document (more than 360 mm).<br><br>ON : 1500 mm or 60 min.<br>OFF : 360 mm or 60 min.<br><br><b>Note:</b> 60 min is transmitting time.   |                 |     |    |                |     |    |               |       |         |               |     |    |
| 11              | Tone for Echo          | Switches the function to apply to poor lines with echo in overseas transmission, etc.<br><br>ON: Enables<br>OFF: Disables<br><br><table border="1"> <tr> <td>Echo Protection</td> <td>OFF</td> <td>ON</td> </tr> <tr> <td>Ignore 1st DIS</td> <td>OFF</td> <td>ON</td> </tr> <tr> <td>CED-DIS timer</td> <td>75 ms</td> <td>1.5 sec</td> </tr> <tr> <td>Tone for echo</td> <td>OFF</td> <td>ON</td> </tr> </table><br>(TF-11 table) | Echo Protection | OFF | ON | Ignore 1st DIS | OFF | ON | CED-DIS timer | 75 ms | 1.5 sec | Tone for echo | OFF | ON |
| Echo Protection | OFF                    | ON  |                 |     |    |                |     |    |               |       |         |               |     |    |
| Ignore 1st DIS  | OFF                    | ON  |                 |     |    |                |     |    |               |       |         |               |     |    |
| CED-DIS timer   | 75 ms                  | 1.5 sec   |                 |     |    |                |     |    |               |       |         |               |     |    |
| Tone for echo   | OFF                    | ON  |                 |     |    |                |     |    |               |       |         |               |     |    |
| 12              | MH only                | Switches the function of limiting image compression to the MH codes only.<br><br>ON : Coding scheme is MH only. When the receiving image data is affected by noise on the telephone line.<br>OFF : Any of MH, MR and MMR.   |                 |     |    |                |     |    |               |       |         |               |     |    |
| 13              | High-speed modem rate  | Specifies the modem's starting speed, 33.6K, 28.8K, 14.4k, 9.6k, or 4.8kbps.  |                 |     |    |                |     |    |               |       |         |               |     |    |
| 14              | T1 (TX), timeout value | T1 (TX) is a time to detect up to 3 flags of DIS sent from a called fax machine.<br>Registers the time duration (in seconds) for which the fax waits for the remote station's answer.<br>This timer starts when the last dialled digit has been sent in the automatic transmission mode.<br><br>* Selects the 3 digit timer<br>010 to 255 sec selectable.(in one second steps)  |                 |     |    |                |     |    |               |       |         |               |     |    |
| 15              | T1 (RX), timeout value | T1 (RX), timeout value (later)<br>Registers the time duration (in seconds) for which the fax waits for the remote station's answer of individual country's specification. This timer starts after the DIS is transmitted.<br>If T1 times out, the fax disconnects the line.<br><br>* Selects the 3 digit timer<br>010 to 255 sec selectable. (in one second steps)  |                 |     |    |                |     |    |               |       |         |               |     |    |

Table 2.2 (4/8) Service Personnel Initial Settings

| T.F. No. | Item              | Specifications  |
|----------|-------------------|---|
| 16       | T2, timeout value | <p>T2, timeout value (layer)<br/>Registers the time duration (in seconds) for which the receiving fax detects the EOL (End Of Line) signal during phase C. The fax will disconnect the line when EOL cannot be detected within T2.</p> <p>* Selects the 3 digit timer<br/>001 to 255 selectable. (in 100ms steps)<br/>For example: 060 × 100 ms =6 s</p>  |
| 17       | DIS bit32         | <p>Selects whether a called fax should transmit DIS bit 32 or not.</p> <p>ON : Transmits DIS bit 32.<br/>OFF: Does not transmit DIS bit 32.<br/>(When OFF, the following functions will not be supported:</p> <ul style="list-style-type: none"> <li>• Reception of Extra Fine (8×15.4 line/mm)</li> <li>• 300 dpi</li> <li>• SEP/SUB frames</li> </ul> <p><b>Note:</b> To improve compatibility between this fax machine and other company's fax machines. If communication error occurs frequently when a fax sender is an older version.</p> |
| 18       | Error criterion   | <p>Registers the threshold value whether to transmit RTN or MCF signal when the error occurs in received data.</p> <p>00% to 99% selectable. (in one percent steps)</p>   |
| 19       | Off-hook bypass   | <p>Switches the function of maintaining communication without hooking up the telephone set in normal testing etc.</p> <p>ON : Enable<br/>OFF: Disable</p>   |
| 20       | NL equalizer      | <p>Selects equalization for the following cable lengths:<br/>0 DB/4 DB/8 DB/12 DB selectable.</p> <p><b>Note:</b> Relative to 1700Hz for length of 0.4mm diameter cable.<br/>Equalizer level is the difference of gain of equalized signal between 0.3kHz and 3.4kHz.</p>   |
| 21       | Modem attenuator  | <p>Adjusts the attenuation (dB) for the message send signal power level.<br/>Adjusting value is 0 to 15 dB in one dB steps.<br/>Since the maximum send signal power level (dB) of the fax is at 0 dB, you can select 0 dB to -15 dB in one dB steps for the send signal power level.</p>  |



Table 2.2 (5/8) Service Personnel Initial Settings

| T.F. No. | Item                                 | Specifications  |
|----------|--------------------------------------|---|
| 22       | T/F tone attenuator (for TEL/FAX SW) | <p>0 to 15 dB, selectable (except FRE)<br/>7 to 15 dB, selectable (FRE)</p> <p><b>Note:</b> The send signal power level should meet your country's regulation. Some countries may specify the power level at a telephone exchange. In that case, you should subtract the specified level from the line cable attenuation to determine the send level of your fax.</p> <p>Adjusts the attenuation (dB) for the quasi-ring back tone send signal of TEL/FAX switching.<br/>Adjusting value is 0 to 15 dB in one dB steps.</p> |
| 23       | MF attenuator                        | <p>Adjusts the attenuation (dB) for the send MF tone power level.<br/>Adjusting value is 0 to 15 dB in one dB steps.</p>  |
| 24       | Ring duration detection time         | <p>Selects the minimum ring detection time to meet country's requirements.<br/>Adjusting time is 100 MS to 990 MS in 10 MS steps.</p> <p>10 to 99 selectable.</p> <p>For example: (120 ms)<br/><u><math>12 \times 10 \text{ ms} = 120 \text{ ms}</math></u></p>   |
| 25       | CML timing                           | <p>Selects the time from end of ring to CML-ON. Adjusting time is 100 MS to 1900 MS in 100 MS steps.</p> <p>0 to 19 selectable.</p> <p>For example: (300 ms)<br/><u><math>03 \times 100 \text{ ms} = 300 \text{ ms}</math></u></p>  |
| 26       | Strobe for LED head                  | <p>Setting of LED print head strobe signals (00000-11111).<br/>Selection of strobe width in LED head.<br/>"00000" is lightest and "11111" is darkest.</p> <p><b>Note 1:</b> When the rank marking of the new replaced LED print head (new part) is same as that of the old used LED print head (old part), you do not always have to set the LED print head strobe signal.</p>  |

**Table 2.2 (6/8) Service Personnel Initial Settings**

| T.F. No.                             | Item  | Specifications  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------------|---|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                                      |   | <p><b>Note 2:</b> Intensity ranking is determined by the first, second and third digits from the right on the LED print head serial number.<br/>(i.e. in .... <u>212</u>, 212 is the intensity ranking.)</p>  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Setting of Technical Function No. 26 |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center;">MSB<br/>↑</td> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td> </tr> <tr> <td style="text-align: right;">Setting</td> <td style="text-align: center;">↑</td> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td> </tr> <tr> <td style="text-align: right;">Rank</td> <td></td> <td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td> </tr> <tr> <td style="text-align: right;">Marking</td> <td style="text-align: center;">LSB<br/>↓</td> <td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td> </tr> </table> |   | MSB<br>↑ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | Setting | ↑ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Rank |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | Marking | LSB<br>↓ | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |  |
|                                      | MSB<br>↑  | 0   | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Setting                              | ↑   | 0   | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Rank                                 |   | 0   | 0        | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Marking                              | LSB<br>↓  | 0   | 1        | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 291-313   | *   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 269-290   |   |          |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 248-268   |   |          |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 229-247   |   |          |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 212-228   |   |          |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 196-211   |   |          |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 181-195   |   |          |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 168-180   |   |          |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 155-167   |   |          |   |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 143-154   |   |          |   |   |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 132-142   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 122-131   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 113-121   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 105-112   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                      | 100-104   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 27                                   | Media type  | Selects the recording paper according to its quality. Medium, Medium-heavy and Heavy selectable.  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 28                                   | Transfer roller latch current   | Selects the latch current for transfer roller.<br>(-2/-1/0/+1/+2)   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 29                                   | NSF switch  | <p>NSF signal transmission selectable.<br/>ON: Transmits NSF signal<br/>OFF: Disables NSF signal</p> <p><b>Note:</b> When NSF switch = OFF, the fax operation is shown as below.</p> <ul style="list-style-type: none"> <li>When transmitting, even if OKI NSF signal is detected from the remote machine, the fax transmits DCS signal (The fax does not transmit NSC signal.)</li> <li>When Remote Diag. = ON, the fax transmits NSF signal.</li> </ul> |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**Table 2.2 (7/8) Service Personnel Initial Settings**

| T.F. No. | Item              | Specifications  |             |             |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
|----------|-------------------|---|-------------|-------------|--|------------|--|----|----|----|----|---|-------------|-------------|-----|-----|---|-----|-----|----------|----------|---|---------|---------|-------------|-------------|---|----------|----------|---|---|
| 30       | ID/TSI priority   | <p>Selects ID/TSI printing in the distant station ID column of the report.</p> <p>ID: Prints NSF signal with personal ID.<br/>                     TSI: Prints TSI signal without NSF.</p> <table border="1"> <thead> <tr> <th rowspan="2">Priority</th> <th colspan="2">Set to ID</th> <th colspan="2">Set to TSI</th> </tr> <tr> <th>TX</th> <th>RX</th> <th>TX</th> <th>RX</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Personal ID</td> <td>Personal ID</td> <td>CSI</td> <td>TSI</td> </tr> <tr> <td>2</td> <td>CSI</td> <td>TSI</td> <td>Dial No.</td> <td>Dial No.</td> </tr> <tr> <td>3</td> <td>Dial ID</td> <td>Dial ID</td> <td>Personal ID</td> <td>Personal ID</td> </tr> <tr> <td>4</td> <td>Dial No.</td> <td>Dial No.</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | Priority    | Set to ID   |  | Set to TSI |  | TX | RX | TX | RX | 1 | Personal ID | Personal ID | CSI | TSI | 2 | CSI | TSI | Dial No. | Dial No. | 3 | Dial ID | Dial ID | Personal ID | Personal ID | 4 | Dial No. | Dial No. | - | - |
| Priority | Set to ID         |   |             | Set to TSI  |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
|          | TX                | RX  | TX          | RX          |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 1        | Personal ID       | Personal ID   | CSI         | TSI         |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 2        | CSI               | TSI   | Dial No.    | Dial No.    |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 3        | Dial ID           | Dial ID   | Personal ID | Personal ID |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 4        | Dial No.          | Dial No.  | -           | -           |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 31       | Toner Count Clear | <p>Enables or disables the clear operating of Toner Counter Clear (OT7) without Service bit ON/OFF (TF01).</p> <p>ON: Enables<br/>                     OFF: Disables</p>  |             |             |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 32       | Parallel Pick Up  | <p>To control a receiving fax by 2 digits (the same digits as remote reception) from a telephone set connected parallel to the telephone line.</p> <p>ON: To enable<br/>                     OFF: To disable<br/>                     (For the details, see Appendix A1, Section 4.3. Outline of Parallel Pick Up.)</p>   |             |             |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 33       | V.34 TX Retray    | <p>Determine whether the V.34 communication error is to be remembered.</p> <p>ON: Remembered<br/>                     OFF: Not remembered</p>   |             |             |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 34       | Symbol Rate       | <p>Set the V.34 modem symbol rate.<br/>                     2400/3000/3200/3429 selectable.</p>   |             |             |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 35       | Leased Line       | <p>Sets to leased line mode for China. When setting to this mode, CML, DP, and SR relays must be always set to ON. Sending on leased line is performed with document ON, no address designation and pressing of the START key.</p> <p>Receiving on leased line is performed by answering automatically when detecting PIS or CNG.</p> <p>ON: Leased line mode<br/>                     OFF: No leased line mode</p>   |             |             |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |
| 36       | CED Send          | <p>Sets to send CED or not at the time of incoming call.</p> <p>ON: Sending CED<br/>                     OFF: Not sending CED</p>   |             |             |  |            |  |    |    |    |    |   |             |             |     |     |   |     |     |          |          |   |         |         |             |             |   |          |          |   |   |

Table 2.2 (8/8) Service Personnel Initial Settings

| T.F. No. | Item   | Specifications  |
|----------|--|---|
| 37       | Top Feed                                     | Adjusts read start position of various machines.<br>-10 to +9 mm (in steps of 1 mm)   |
| 38       | Bottom Feed                                  | Adjusts read end position of various machines.<br>-2 to +10 mm (in steps of 1 mm)   |
| 39       | A/R FULL PRINT                               | Set whether to print automatically after every 50 Activity Report transmissions.<br>ON: Print<br>OFF: Does not print  |
| 40       | COMMAND TIME OUT                             | Set the length of timeout for SMTP and POP3 protocols.<br>30SEC/5MIN  |
| 41       | G3/G4 Learning                               | Sets up whether to learn G3/G4 communication.<br>ON: Learn<br>OFF: Not learn<br>* Setting disabled if without ISDN option.  |
| 42       | LLC Check                                    | Determine whether the lower layer compatibility information instructed from the calling side is analyzed.<br>ON: Analyzed<br>OFF: Not analyzed<br>* The setting data must be transferred to the G4 board.<br>* Cannot be selected when G4 option board is not installed.  |
| 43       | G3 Setup BC                                  | Sets to send speech by BC of SETUP at making a G3I call as there exists an ISDN-PBX which accepts only the incoming call for speech purpose (BC=speech)<br>Speech (for speech purpose)<br>3.1kHz (for communication Purpose)  |
| 44       | G3 Fallback Cause (54 kinds of service code) | Enables to select service code for automatic fallback to G3 transmission if G4 transmission is faulty. There are 54 kinds of service codes that can be selected. (Refer to G3 fallback service code list ).<br>The service code not selected is dealt with as communication error.<br>Settings values:<br>Setting enabled only when G4 opt. is mounted. |

| No. | Technical Setting Items | Setting Selection   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 13     | Note             |
|-----|-------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
|     |                         |   | ODA    | LTA    | E-INT  | GER    | E-FRE  | 0-AUS  | 0-NZL  | 0-SIN  | 0-HNG  | L-AG   | IRL    | DEN    | SWE    |                  |
| 1   | SERVICE BIT             | ON/OFF  | OFF    | OFF    | OFF    | ALL    | OFF    | ONCE   | ALL    | ONCE   | OFF    | OFF    | OFF    | ONCE   | ONCE   |                  |
| 2   | MONITOR CONT.           | ON/OFF  | OFF    | ON     | OFF    | ON     | OFF    | ON     | ON     | ON     | OFF    | ON     | ON     | ON     | ON     |                  |
| 3   | COUNTRY CODE            | USA INTL GBR IRL<br>NOR SWE FIN DEN<br>GER HUN TCH POL<br>SUI AUT BEL HOL FRE POR<br>ESP ITA GRE AUS NZL<br>SIN HNG LTA MEX CHN RUS TWN | USA    | LTA    | GBR    | GER    | FRE    | AUS    | NZL    | SIN    | HNG    | USA    | IRL    | DEN    | SWE    |                  |
| 4   | TIME/DATE PRINT         | 0: OFF/ 1: ONCE/2: ALL  | OFF    | OFF    | OFF    | ALL    | OFF    | ONCE   | ALL    | ONCE   | OFF    | OFF    | OFF    | ONCE   | ONCE   |                  |
| 5   | TSI PRINT               | ON/OFF  | ON     | ON     | OFF    | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 6   | TAD MODE                | 0: OFF/ 1: TYPE1/2: TYPE2/3: TYPE3  | TYPE2  | TYPE2  | OFF    | TYPE1  | TYPE1  | OFF    | TYPE1  | OFF    | OFF    | TYPE2  | TYPE2  | TYPE2  | TYPE2  |                  |
| 7   | REAL TIME DIAL          | 0: OFF/ 1: TYPE1/2: TYPE2   | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  |                  |
| 8   | TEL/FAX SW              | ON/OFF  | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 9   | MDY/DMY                 | 0: MDY/ 1: DMY  | MDY    | MDY    | DMY    | DMY    | DMY    | DMY    | DMY    | DMY    | DMY    | DMY    | DMY    | DMY    | DMY    |                  |
| 10  | LONG DOC. SCAN          | ON/OFF  | OFF    | OFF    | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 11  | TOPE FOR ECHO           | ON/OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |                  |
| 12  | MH ONLY                 | ON/OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |                  |
| 13  | H/MODEM RATE            | 33.6K/28.8K/14.4K/9.6K/4.8K   | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  |                  |
| 14  | T1(TX) TIMER VALUE      | 010 - 255 sec   | 59     | 59     | 60     | 60     | 140    | 40     | 40     | 60     | 30     | 59     | 60     | 60     | 60     |                  |
| 15  | T1(RX) TIMER VALUE      | 010 - 255 sec   | 35     | 35     | 35     | 35     | 35     | 35     | 35     | 35     | 35     | 35     | 35     | 35     | 35     |                  |
| 16  | T2 TIMER VALUE          | 001 - 255 (100ms - 25.5 sec)  | 130    | 130    | 130    | 60     | 51     | 130    | 130    | 130    | 130    | 130    | 130    | 130    | 130    | Base Timer=100ms |
| 17  | DIS BIT 32              | ON/OFF  | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 18  | ERR. CRITERION          | 0 - 99  | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     | 10     |                  |
| 19  | OFF HOOK BYPASS         | ON/OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |                  |
| 20  | NL EQUALIZER            | 0: DB/4 DB/8 DB/12 DB   | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    |                  |
| 21  | ATTENUATOR              | 0 - 15dB  | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   |                  |
| 22  | T/F TONE ATT            | 0 - 15dB  | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   |                  |
| 23  | MF ATT                  | 0 - 15dB  | 6dB    | 7dB    | 5dB    | 5dB    | 5dB    | 4dB    | 6dB    | 4dB    | 7dB    | 6dB    | 5dB    | 5dB    | 5dB    |                  |
| 24  | RING DURA. *10MS        | 10 - 99 (*10 ms)  | 12     | 12     | 14     | 14     | 60     | 12     | 14     | 14     | 14     | 14     | 14     | 12     | 14     |                  |
| 25  | CML TIMING *100MS       | 1 - 19 (*100 ms)  | 3      | 3      | 3      | 3      | 15     | 3      | 12     | 12     | 12     | 3      | 3      | 3      | 1      |                  |
| 26  | HEAD STROBE             | 00000 - 11111   | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  |                  |
| 27  | MEDIA TYPE              | M/M/H   | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      |                  |
| 28  | TR LATCH CURRENT        | -2/-10/+1/+2  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |                  |
| 29  | NSF SWITCH              | ON/OFF  | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 30  | ID/TSI PRIORITY         | ID/TSI  | ID     | ID     | ID     | TSI    | ID     | ID     | ID     | ID     | ID     | ID     | ID     | ID     | ID     |                  |
| 31  | TONER COUNT CLEAR       | ON/OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |                  |
| 32  | PARALLEL PICK UP        | ON/OFF  | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 33  | V.34 TX RETRY           | ON/OFF  | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 34  | SYMBOL RATE             | 2400/3000/3200/3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   |                  |
| 35  | LEASED LINE             | ON/OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |                  |
| 36  | CED SEND                | ON/OFF  | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 37  | TOP FEED                | -10mm - +9mm  | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    |                  |
| 38  | BOTTOM FEED             | -2mm - +10mm  | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    |                  |
| 39  | A/R FULL PRINT          | ON/OFF  | ON     | ON     | OFF    | ON     | OFF    | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 40  | COMMAND TIME OUT        | 30 SEC/5 MIN  | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC |                  |
| 41  | G3/G4 LEARNING          | ON/OFF  | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     |                  |
| 42  | LLC CHECK               | ON/OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |                  |
| 43  | G3 SETUP BC             | 3.1K/SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   |                  |
| 44  | G3 FALLBACK CAUSE       | select from all 50 kinds of service codes   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   |                  |

Note: As for the setting of the part of mesh, Default-data does not exist in the Default-file. This setting has the data which are characteristic of the device.

E-XXX=OEL-XXX, O-XXX=OKI-XXX, L-XXX=LAMIER-XXX

Table 2.3 (1/2) Technical Default Setting

| No. | Technical Setting Items | Setting Selection  | 14 NOR   | 15 SUI | 16 AUT | 17 HOL | 18 ITA | 19 ESP | 20 CHN | (21) Factory | Note             |
|-----|-------------------------|--|--|--------|--------|--------|--------|--------|--------|--------------|------------------|
| 1   | SERVICE BIT             | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | ON           |                  |
| 2   | MONITOR CONT.           | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | ON           |                  |
| 3   | COUNTRY CODE            | USA INT'L GBR IRL<br>NOR SWE FIN DEN<br>GER HUN TCH POL<br>SUI AUT BEL HOL FRE POR<br>ESP ITA GRE AUS NZL<br>SIN HNG LTA CHN MEX RUS | NOR  | SUI    | AUT    | HOL    | ITA    | ESP    | CHN    | INT'L        |                  |
| 4   | TIME/DATE PRINT         | 0: OFF/ 1: ONCE/2: ALL   | OFF  | ALL    | ALL    | ONCE   | ALL    | ONCE   | OFF    | ONCE         |                  |
| 5   | TSI PRINT               | ON/OFF   | ON   | ON     | ON     | ON     | ON     | ON     | ON     | ON           |                  |
| 6   | TAD MODE                | 0: OFF/ 1: TYPE1/2: TYPE2/3: TYPE3   | OFF  | TYPE1  | TYPE1  | TYPE1  | OFF    | TYPE2  | TYPE2  | OFF          |                  |
| 7   | REAL TIME DIAL          | 0: OFF/ 1: TYPE1/2: TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2  | TYPE2        |                  |
| 8   | TEL/FAX SW              | ON/OFF   | ON   | ON     | ON     | ON     | ON     | ON     | ON     | ON           |                  |
| 9   | MDY/DMY                 | 0: MDY/ 1: DMY   | DMY  | DMY    | DMY    | DMY    | DMY    | DMY    | DMY    | DMY          |                  |
| 10  | LONG DOC. SCAN          | ON/OFF   | OFF  | ON     | ON     | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 11  | TOPE FOR ECHO           | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 12  | MH ONLY                 | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 13  | H/MODEM RATE            | 33.6K/28.8K/14.4K/9.6K/4.8K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K  | 33.6K        |                  |
| 14  | T1(TX) TIMER VALUE      | 0/10 - 255 sec   | 60   | 60     | 60     | 60     | 40     | 45     | 45     | 60           |                  |
| 15  | T1(RX) TIMER VALUE      | 0/10 - 255 sec   | 35   | 35     | 35     | 35     | 35     | 35     | 35     | 35           |                  |
| 16  | T2 TIMER VALUE          | 001 - 255 (100ms - 25.5 sec)   | 130  | 60     | 60     | 130    | 130    | 51     | 130    | 130          | Base Timer=100ms |
| 17  | DIS BIT 32              | ON/OFF   | ON   | ON     | ON     | ON     | ON     | ON     | ON     | ON           |                  |
| 18  | ERR. CRITERION          | 0 - 99   | 10   | 10     | 10     | 10     | 10     | 10     | 10     | 10           |                  |
| 19  | OFF HOOK BYPASS         | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 20  | NL EQUALIZER            | 0 DB/4 DB/8 DB/12 DB   | 0DB  | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB    | 0DB          |                  |
| 21  | ATTENUATOR              | 0 - 15dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB   | 10dB         |                  |
| 22  | T/F TONE ATT            | 0 - 15dB   | 9dB  | 7dB    | 10dB   | 12dB   | 10dB   | 10dB   | 8dB    | 10dB         |                  |
| 23  | MF ATT                  | 0 - 15dB   | 5dB  | 5dB    | 5dB    | 5dB    | 5dB    | 5dB    | 4dB    | 7dB          |                  |
| 24  | RING DURA. *10MS        | 10 - 99 (*10 ms)   | 14   | 14     | 11     | 14     | 14     | 14     | 12     | 12           |                  |
| 25  | CML TIMING *100MS       | 1 - 19 (*100 ms)   | 3  | 3      | 3      | 11     | 3      | 3      | 3      | 3            |                  |
| 26  | HEAD STROBE             | 00000 - 11111  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100  | 10100        |                  |
| 27  | MEDIA TYPE              | M/M/H  | M  | M      | M      | M      | M      | M      | M      | M            |                  |
| 28  | TR LATCH CURRENT        | -2/-10/+1/+2   | 0  | 0      | 0      | 0      | 0      | 0      | 0      | 0            |                  |
| 29  | NSF SWITCH              | ON/OFF   | ON   | ON     | ON     | ON     | ON     | ON     | ON     | ON           |                  |
| 30  | ID/TSI PRIORITY         | ID/TSI   | ID   | TSI    | TSI    | ID     | ID     | ID     | ID     | ID           |                  |
| 31  | TONER COUNT CLEAR       | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 32  | PARALLEL PICK UP        | ON/OFF   | ON   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 33  | V.34 TX RETRY           | ON/OFF   | ON   | ON     | ON     | ON     | ON     | ON     | ON     | ON           |                  |
| 34  | SYMBOL RATE             | 2400/2800/3200/3429  | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429   | 3429         |                  |
| 35  | LEASED LINE             | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 36  | CEC SEND                | ON/OFF   | ON   | ON     | ON     | ON     | ON     | ON     | ON     | ON           |                  |
| 37  | TOP FEED                | -10mm - +9mm   | 0mm  | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm          |                  |
| 38  | BOTTOM FEED             | -2mm - +10mm   | 0mm  | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm    | 0mm          |                  |
| 39  | AIR FULL PRINT          | ON/OFF   | OFF  | ON     | ON     | OFF    | OFF    | OFF    | ON     | ON           |                  |
| 40  | COMMAND TIME OUT        | 30 SEC/5 MIN   | 30 SEC   | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC | 30 SEC       |                  |
| 41  | G3/G4 LEARNING          | ON/OFF   | ON   | ON     | ON     | ON     | ON     | ON     | ON     | ON           |                  |
| 42  | LLC CHECK               | ON/OFF   | OFF  | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF          |                  |
| 43  | G3 SETUP BC             | 3.1K/SPEC  | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC   | SPEC         |                  |
| 44  | G3 FALLBACK CAUSE       | select from all 50 kinds of service codes  | It doesn't have default data with each default type. Only one kind has data as a device. |        |        |        |        |        |        |              |                  |

**Note:** As for the setting of the part of mesh, Default-data does not exist in the Default-file. This setting has the data which are characteristic of the device.  
E-XXX=OEL-XXX, O-XXX=OKI-XXX, L-XXX=LANIER-XXX

Table 2.3 (2/2) Technical Default Setting

## 1) TEL/FAX automatic switching

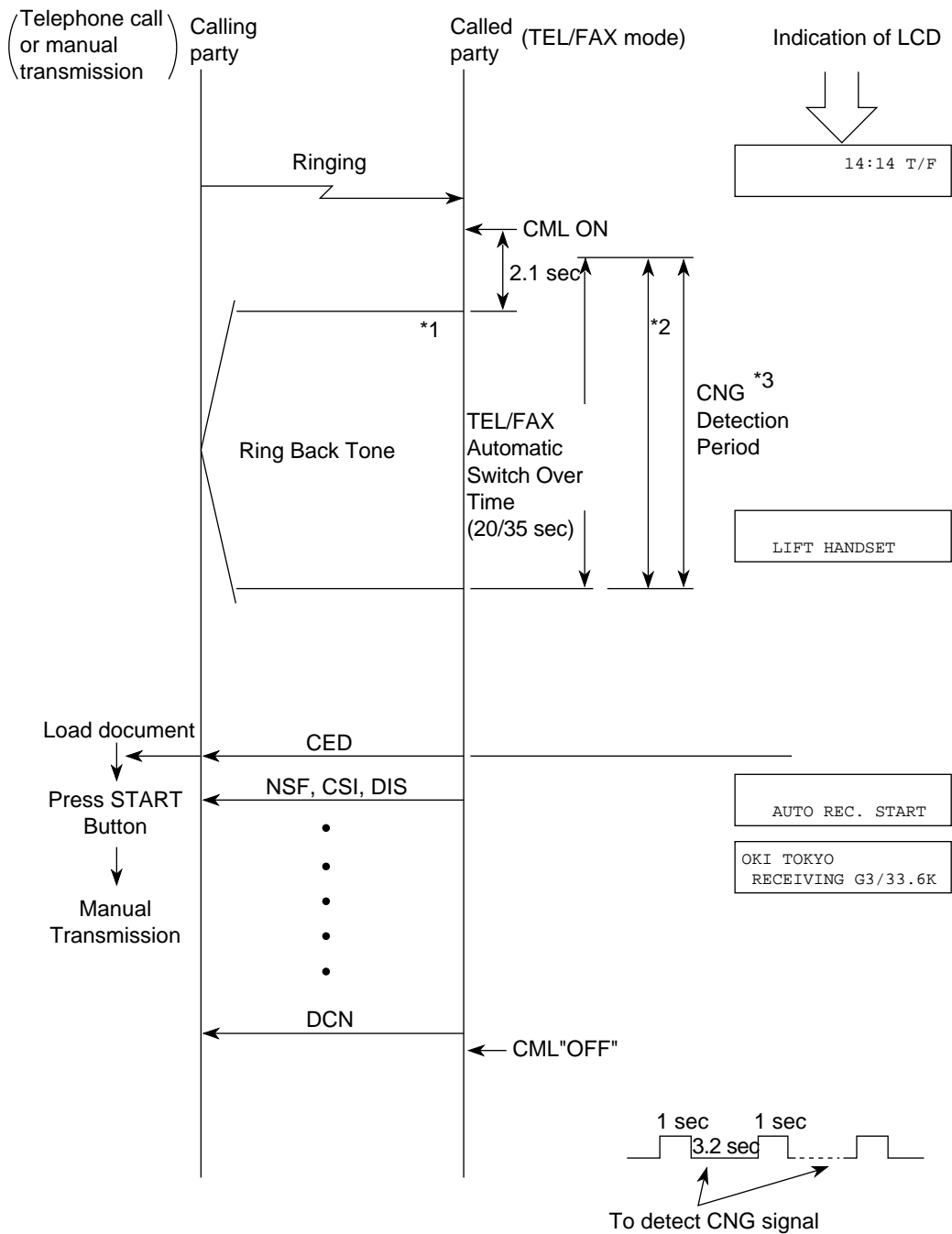
This function is used for the purpose of TEL/FAX automatic switching as follows.

- (1) If the machine detects a call with a CNG signal indicating an auto send facsimile call, it starts an automatic document receiving operation.
- (2) If machine detects a call without a CNG signal, machine generates the buzzer sounds as a telephone call. The calling person can hear a "ring back" tone within a predetermined time.

If the operator at the called side does not lift the handset within the predetermined time, the machine automatically starts a document receiving operation. Voice conversation will automatically be available through the handset by lifting up the handset while the call buzzer is sounding.

- Note 1:** The predetermined time is selectable between 20 or 35 sec.  
(Function program No. 10)
- 2:** No ringing signal is sent to the external telephone handset.
- 3:** Choice of message sending level. The level is selectable from 0 to 15 dB in one dB step.  
(Technical function No. 22)
- 4:** TEL/FAX mode is available by Technical Function No. 08.

• TEL/FAX mode flow chart



- Note**
- \*1: Ring Back Tone — 1 sec. ON, 3.2 sec. OFF
  - \*2: When you want to talk by phone, pick up handset.
  - \*3: The called party can send CED to the calling party immediately to start FAX communication if the CNG is detected during the period.
  - \*4: If the fax does not detect CNG signal during working of TEL/FAX mode, LCD display indicates "LIFT HANDSET".



2) TAD mode

TAD: Telephone Answering Device

TAD can be connected to external telephone terminal to record your messages.

TAD records your speech and switches an automatic voice message response to the calling station.

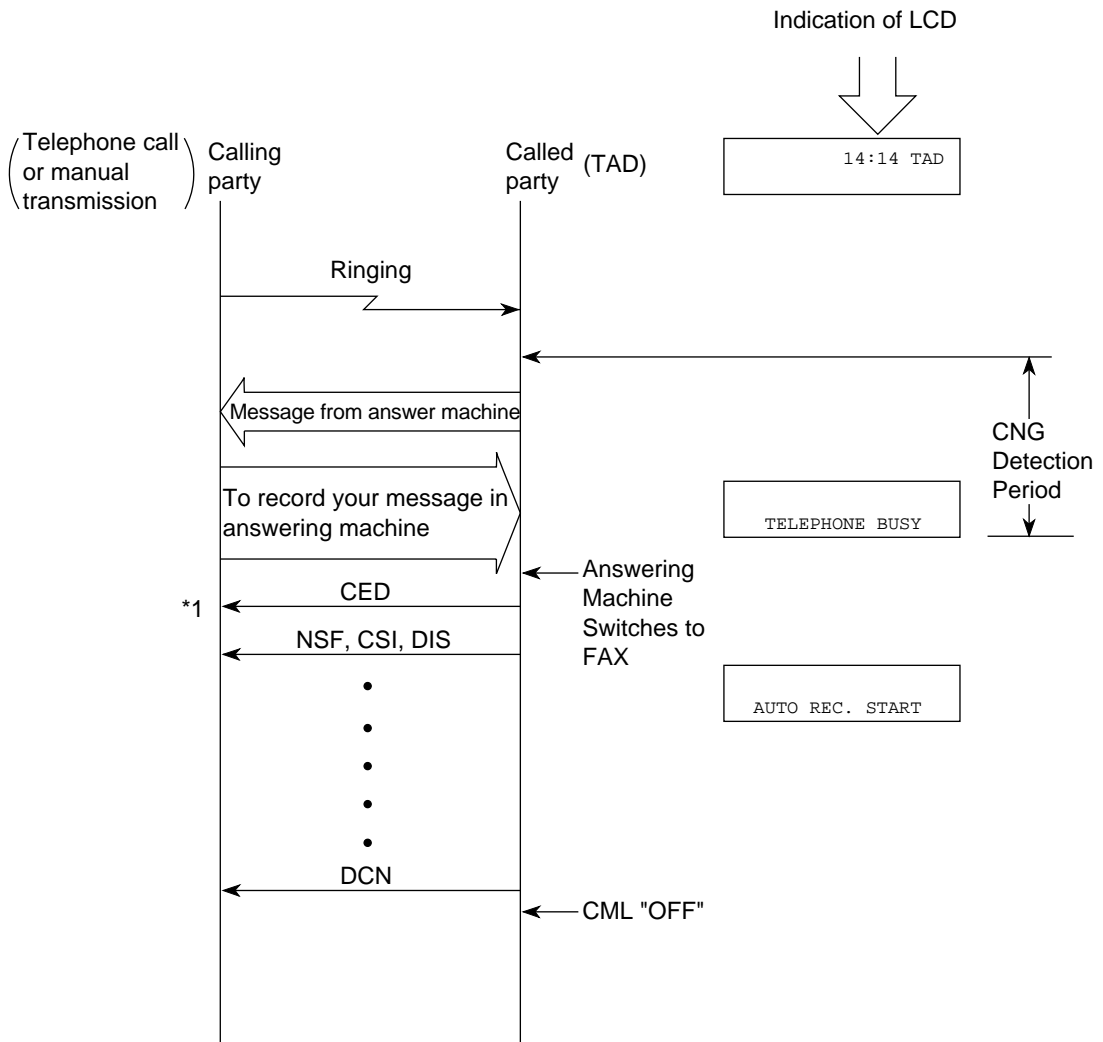
**Note 1:** A choice of TAD mode is available by Technical Function No. 06.

**2:** The predetermined time is selectable between 20 or 35 sec.

• TAD mode flow chart

In case of TYPE 1;

Even though the fax does not detect CNG signal, the fax will go to receiving mode.



**\*1:** To enable the manual TX mode.

Load document → Press START button → Manual transmission

• TAD mode flow chart

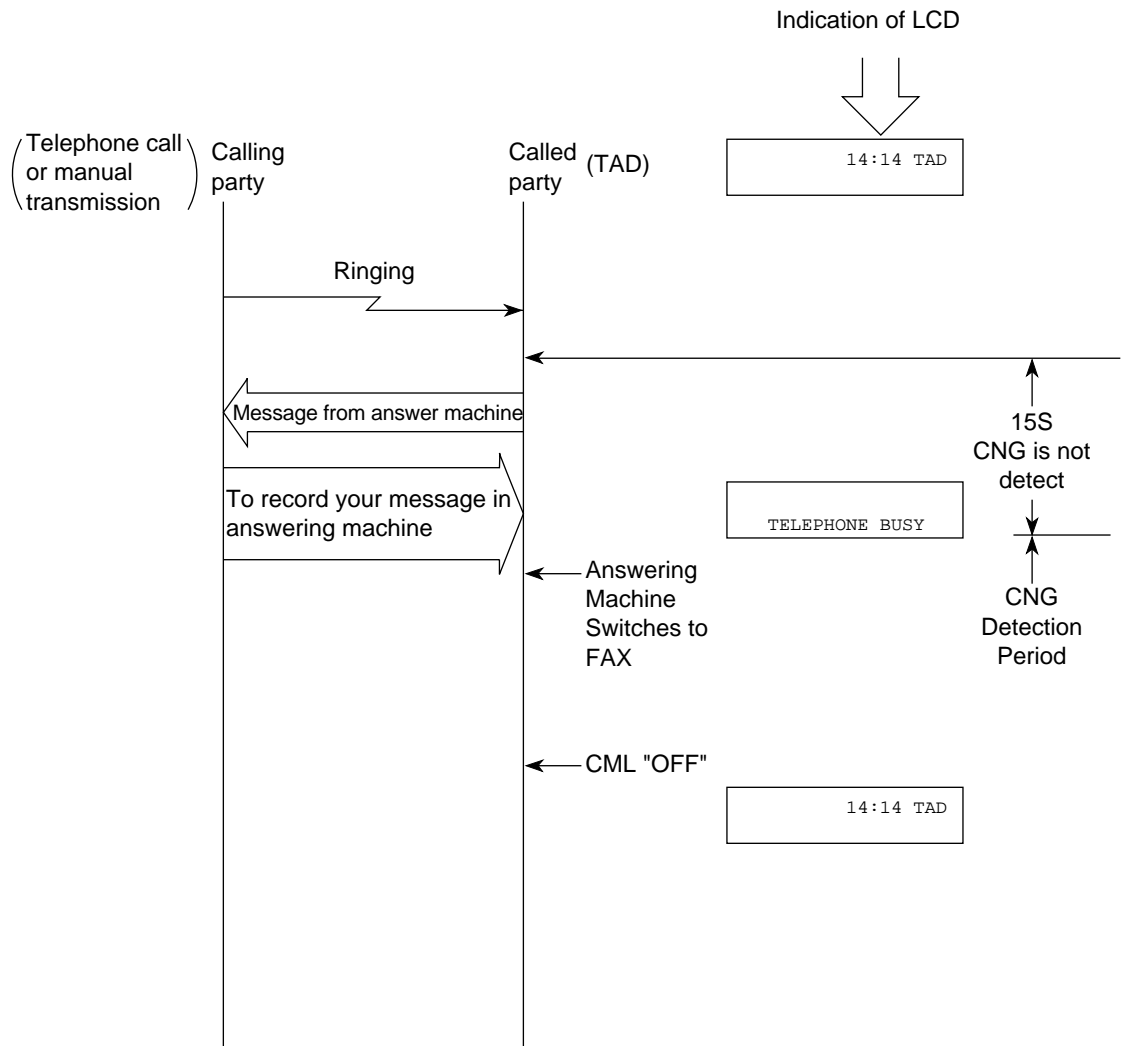
In case of TYPE 2:

If the fax does not detect CNG signal during working of TAD, the machine will go to standby mode.

In case of TYPE 3:

The fax does not detect CNG signal during 15 seconds from TAD operation starting. The fax starts CNG signal detection after 15 seconds from TAD operation.

When the fax does not detect CNG signal and ends TAD operation (on-hook of TAD operation), the fax return to standby state.



### 2.2.1.3 Technical Functions Example

**Note:** The fonts displayed on the LCD operation panel may differ from the fonts written this manual.

#### (1) Service Bit Setting

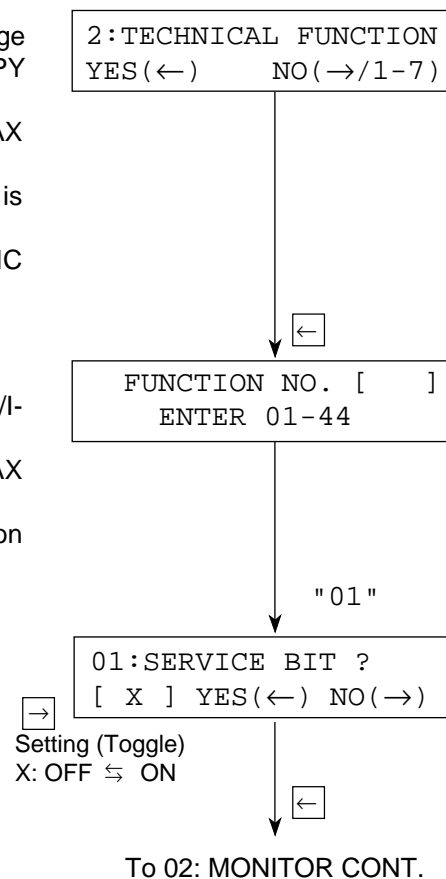
- 1) Purpose  
To enable or disable the following functions:
  - Drum and toner counter display (clear)
  - Service default report printing
  - Protocol dump report printing
  - Ring response time setting
  - Dial parameters setting
  - Printer counters clearing

- 2) Procedure

#### Operations:

- To bring the LCD up to the desired message press SELECT FUNCTION key once, COPY key twice and "2"key.  
(→ /1-5) is displayed when G4 option/I-FAX NIC option are not installed.  
(→ /1-6) is displayed when a G4 option is installed.  
(→ /1-7) is displayed when an I-FAX NIC option is installed.
- Press  key.  
ENTER 01-39 is displayed when G4 option/I-FAX NIC option are not installed.  
ENTER 01-40 is displayed when an I-FAX NIC option is installed.  
ENTER 01-44 is displayed when a G4 option is installed.
- Service bit setting is T.F. No. 01.  
Enter "01"

#### The display shows:



Reference: See Figure 2.6 on the next page for the general operation flow.

## (2) Technical functions

**Operations:**

- Press SELECT FUNCTION key.
- Press COPY key twice.
- Press  key.
- Press  key.
- Press  key.
- Enter two-digit function number, then the display will show the set item corresponding to the number entered. If you want to set up all or several items starting with 01, then enter 01.

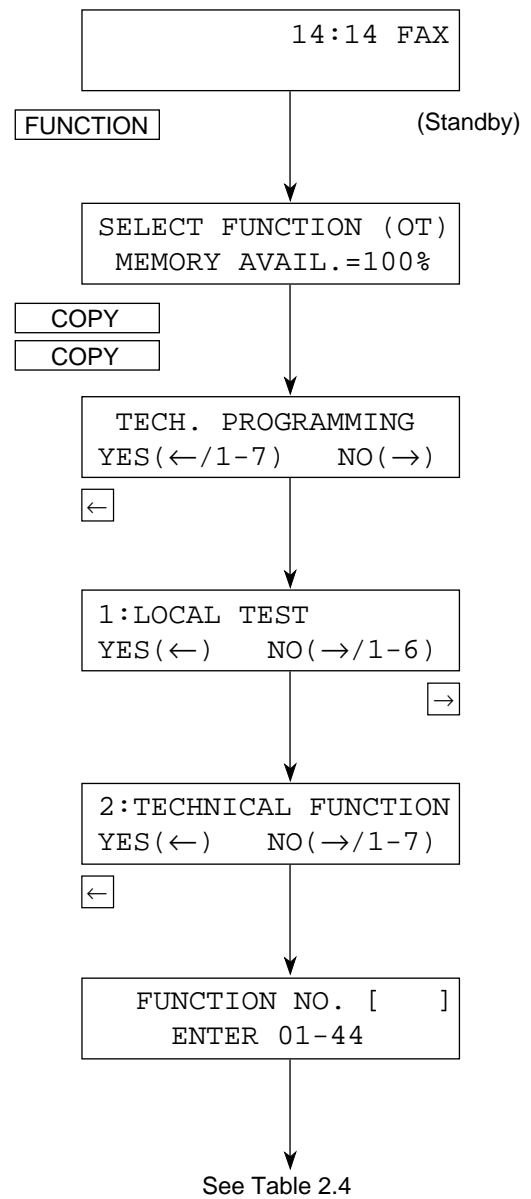
**The display shows:**

Table 2.4 (1/6) Technial Functions

| T.F. No. | Name of Function                                       | The Display Shows   |
|----------|--|---|
| 01       | Service bit  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">01:SERVICE BIT<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>              |
| 02       | Line monitor control                                   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">02:MONITOR CONT.<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>            |
| 03       | Country code   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">03:COUNTRY CODE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting<br/>X: USA → INT →<br/>... TWN         </div>       |
| 04       | Time and date print                                    | <div style="border: 1px solid black; padding: 2px; display: inline-block;">04:TIME/DATE PRINT<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting<br/>X: OFF → ONCE →<br/>→ ALL         </div>     |
| 05       | TSI print  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">05:TSI PRINT<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>                |
| 06       | TAD mode<br>(For external telephone answering device.) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">06:TAD MODE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting<br/>X: OFF → TYPE1 →<br/>→ TYPE2 → TYPE3         </div> |
| 07       | Real-time dialling                                     | <div style="border: 1px solid black; padding: 2px; display: inline-block;">07:REAL TIME DIAL<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting<br/>X: OFF → TYPE1 →<br/>→ TYPE2         </div>   |
| 08       | TEL/FAX switching                                      | <div style="border: 1px solid black; padding: 2px; display: inline-block;">08:TEL/FAX SWITCH<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>           |
| 09       | MDY/DMY format   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">09:MDY/DMY<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: MDY ⇄ DMY         </div>                 |
| 10       | Long document transmission                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">10:LONG DOC. SCAN<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>           |

**Table 2.4 (2/6) Technial Functions**

| T.F. No. | Name of Function                    | The Display Shows   |
|----------|-------------------------------------|---|
| 11       | Tone for echo (echo protection)     | <div style="border: 1px solid black; padding: 2px; display: inline-block;">11:TONE FOR ECHO<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>                     Setting (Toggle)<br/>                     X: OFF ⇄ ON                 </div>  |
| 12       | MH only                             | <div style="border: 1px solid black; padding: 2px; display: inline-block;">12:MH ONLY<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>                     Setting (Toggle)<br/>                     X: OFF ⇄ ON                 </div>  |
| 13       | High-speed modem rate               | <div style="border: 1px solid black; padding: 2px; display: inline-block;">13:H/MODEM RATE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>                     Setting<br/>                     X: 4.8k → 9.6k →<br/>                        → 14.4k → 28.8k<br/>                        → 33.6k                 </div>   |
| 14       | T1 (TX), timeout value (XTTO value) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">14:T1(TX)TIMER VALUE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>                     X: 010 - 255 sec                 </div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">14:T1(TX)TIMER VALUE<br/>[ _ ] ENTER 010-255</div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="text-align: center;">3-digit timer entered.</div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">14:T1(TX)TIMER VALUE<br/>[060] YES(←) NO(→)</div> <p>(Example)</p> |
| 15       | T1 (RX), timeout value              | <div style="border: 1px solid black; padding: 2px; display: inline-block;">15:T1(RX)TIMER VALUE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>                     X: 010 - 255 sec                 </div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">15:T1(RX)TIMER VALUE<br/>[ _ ] ENTER 010-255</div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="text-align: center;">3-digit timer entered.</div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">15:T1(RX)TIMER VALUE<br/>[035] YES(←) NO(→)</div> <p>(Example)</p> |

**Table 2.4 (3/6) Technial Functions**

| T.F. No. | Name of Function                            | The Display Shows  |
|----------|---|--|
| 16       | T2, timeout value                           | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">16:T2 TIMER *100MS<br/>[ X ] YES(←) NO(→)</div> <div style="text-align: right; margin-right: 20px;">→</div> <div style="text-align: right; margin-right: 20px;">X: 001 - 255</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">16:T2 TIMER *100MS<br/>[ _ ] ENTER 001-255</div> <div style="text-align: center;">↓</div> <div style="text-align: center;">3-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">16:T2 TIMER *100MS<br/>[059] YES(←) NO(→)</div> <p>(Example)</p> |
| 17       | DIS bit 32                                  | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">17:DIS BIT32<br/>[ X ] YES(←) NO(→)</div> <div style="text-align: right; margin-right: 20px;">→</div> <div style="text-align: right; margin-right: 20px;">Setting (Toggle)<br/>X: OFF ⇄ ON</div>   |
| 18       | Error criterion                             | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">18:ERR. CRITERION<br/>[ X ] YES(←) NO(→)</div> <div style="text-align: right; margin-right: 20px;">→</div> <div style="text-align: right; margin-right: 20px;">X: 00 - 99%</div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">18:ERR. CRITERION<br/>[ _ ] ENTER 00-99</div> <div style="text-align: center;">↓</div> <div style="text-align: center;">2-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">18:ERR. CRITERION<br/>[10] YES(←) NO(→)</div> <p>(Example)</p>        |
| 19       | Off-hook bypass                             | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">19:OFF HOOK BYPASS<br/>[ X ] YES(←) NO(→)</div> <div style="text-align: right; margin-right: 20px;">→</div> <div style="text-align: right; margin-right: 20px;">Setting (Toggle)<br/>X: OFF ⇄ ON</div>   |
| 20       | NL equalizer                                | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">20:NL EQUALIZER<br/>[ X ] YES(←) NO(→)</div> <div style="text-align: right; margin-right: 20px;">→</div> <div style="text-align: right; margin-right: 20px;">Setting<br/>X:0 DB → 4 DB →<br/>→ 8 DB → 12 DB</div>  |
| 21       | Modem attenuator                            | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">21:ATTENUATOR<br/>[ X ] YES(←) NO(→)</div> <div style="text-align: right; margin-right: 20px;">→</div> <div style="text-align: right; margin-right: 20px;">Setting<br/>X:0 DB → 1 DB →<br/>2 DB → ..... → 15 DB → 0 DB → ....</div>  |
| 22       | T/F tone attenuator<br>(for TEL/FAX switch) | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">22:T/F TONE ATT.<br/>[ X ] YES(←) NO(→)</div> <div style="text-align: right; margin-right: 20px;">→</div> <div style="text-align: right; margin-right: 20px;">Setting<br/>X:0 DB → 1 DB →<br/>2 DB → ..... → 15 DB → 0 DB → ....</div>   |

**Table 2.4 (4/6) Technial Functions**

| T.F. No. | Name of Function             | The Display Shows  |
|----------|------------------------------|--|
| 23       | MF attenuator                | <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     23:MF ATT.<br/>                     [ X ] YES(←) NO(→)                 </div> <div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> <input type="checkbox"/> →<br/>                     Setting<br/>                     X:0 DB → 1 DB →<br/>                     2 DB → ..... → 15 DB → 0 DB → .....                 </div>  |
| 24       | Ring duration detection time | <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     24:RING DURA. *10 MS<br/>                     [ X ] YES(←) NO(→)                 </div> <div style="text-align: center; margin: 5px 0;">↓ <input type="checkbox"/> →</div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     24:RING DURA. *10 MS<br/>                     [ _ ] ENTER 10-99                 </div> <div style="text-align: right;">X: 10 - 99</div> </div> <div style="text-align: center; margin: 5px 0;">↓ 2-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     24:RING DURA. *10 MS<br/>                     [14] YES(←) NO(→)                 </div> <p>(Example)</p> |
| 25       | CML timing                   | <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     25:CML TIMING *100MS<br/>                     [ X ] YES(←) NO(→)                 </div> <div style="text-align: center; margin: 5px 0;">↓ <input type="checkbox"/> →</div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     25:CML TIMING *100MS<br/>                     [ _ ] ENTER 01-19                 </div> <div style="text-align: right;">X: 01 - 19</div> </div> <div style="text-align: center; margin: 5px 0;">↓ 2-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     25:CML TIMING *100MS<br/>                     [03] YES(←) NO(→)                 </div> <p>(Example)</p> |
| 26       | LED Head strobe              | <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     26:LED HEAD STROBE<br/>                     [ X ] YES(←) NO(→)                 </div> <div style="text-align: center; margin: 5px 0;">↓ <input type="checkbox"/> →</div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     26:LED HEAD STROBE<br/>                     [ _ ] ENTER 0/1                 </div> <div style="text-align: right;">X:5digits (0/1)</div> </div> <div style="text-align: center; margin: 5px 0;">↓ 0/1 entered.</div> <div style="border: 1px solid black; padding: 5px; width: fit-content;">                     26:LED HEAD STROBE<br/>                     [01101]YES(←) NO(→)                 </div> <p>(Example)</p>            |



Table 2.4 (5/6) Technial Functions

| T.F. No. | Name of Function               | The Display Shows  |
|----------|--------------------------------|--|
| 27       | Media type                     | <div style="border: 1px solid black; padding: 2px; display: inline-block;">27:MEDIA TYPE<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting<br>X: M → MH → H                            |
| 28       | Transfer roller clutch current | <div style="border: 1px solid black; padding: 2px; display: inline-block;">28:TR LATCH CURRENT<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting<br>X:-2 → -1 → 0 → +1<br>→ +2         |
| 29       | NSF switch                     | <div style="border: 1px solid black; padding: 2px; display: inline-block;">29:NSF SWITCH<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X: OFF ⇄ ON                     |
| 30       | ID/TSI priority                | <div style="border: 1px solid black; padding: 2px; display: inline-block;">30:ID/TSI PRIORITY<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X: ID ⇄ TSI                |
| 31       | Toner count clear              | <div style="border: 1px solid black; padding: 2px; display: inline-block;">31:TONER COUNT CLEAR<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X: OFF ⇄ ON              |
| 32       | Parallel Pick Up               | <div style="border: 1px solid black; padding: 2px; display: inline-block;">32:PARALLEL PICK UP<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X: OFF ⇄ ON               |
| 33       | V.34 TX retry                  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">33:V.34 TX RETRY<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X: OFF ⇄ ON                  |
| 34       | Symbol rate                    | <div style="border: 1px solid black; padding: 2px; display: inline-block;">34:SYMBOL RATE<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X:2400 → 3000<br>→ 3200 → 3429 |
| 35       | Leased line                    | <div style="border: 1px solid black; padding: 2px; display: inline-block;">35:LEASED LINE<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X: OFF ⇄ ON                    |
| 36       | CED send                       | <div style="border: 1px solid black; padding: 2px; display: inline-block;">36:CED SEND<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle)<br>X: OFF ⇄ ON                       |
| 37       | Top feed                       | <div style="border: 1px solid black; padding: 2px; display: inline-block;">37:TOP FEED<br/>[ X ] YES(←) NO(→)</div> <input type="checkbox"/> Setting<br>X:1→2→3•••9→-1<br>→-2→-3•••-10→0           |

**Table 2.4 (6/6) Technial Functions**

| T.F. No. | Name of Function                                     | The Display Shows  |
|----------|--|--|
| 38       | Bottom feed  | <div style="border: 1px solid black; padding: 5px; display: inline-block;">38:BOTTOM FEED<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/><br/>                     Setting<br/>                     X:1→2→3...10→-1<br/>                     →-2→-3...0→-2                 </div>   |
| 39       | A/R Full print                                       | <div style="border: 1px solid black; padding: 5px; display: inline-block;">39:A/R FULL PRINT<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/><br/>                     Setting (Toggle)<br/>                     X: OFF ⇄ ON                 </div>  |
| 40       | Command time out                                     | <div style="border: 1px solid black; padding: 5px; display: inline-block;">40:COMMAND TIME OUT<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/><br/>                     Setting (Toggle)<br/>                     X: 30 SEC ⇄ 5 MIN                 </div> <div style="text-align: right; margin-right: 20px;">Note 3</div>   |
| 41       | G3/G4 learning                                       | <div style="border: 1px solid black; padding: 5px; display: inline-block;">41:G3/G4 LEARNING<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/><br/>                     Setting (Toggle)<br/>                     X: OFF ⇄ ON                 </div> <div style="text-align: right; margin-right: 20px;">Note 1</div>   |
| 42       | LLC check<br>(Lower layer compatibility information) | <div style="border: 1px solid black; padding: 5px; display: inline-block;">42:LLC CHECK<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/><br/>                     Setting (Toggle)<br/>                     X: OFF ⇄ ON                 </div> <div style="text-align: right; margin-right: 20px;">Note 1</div>  |
| 43       | G3 setup BC  | <div style="border: 1px solid black; padding: 5px; display: inline-block;">43:G3 SETUP BC<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/><br/>                     Setting (Toggle)<br/>                     X: OFF ⇄ ON                 </div> <div style="text-align: right; margin-right: 20px;">Note 1</div>  |
| 44       | G3 Fallback cause                                    | <div style="border: 1px solid black; padding: 5px; display: inline-block;">44:G3 FALLBACK CAUSE<br/>[ BA01] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <p style="text-align: center;">→ key</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; width: 150px;">44:G3 FALLBACK CAUSE<br/>[*BA01] YES(←) NO(→)</div> <p style="text-align: center;">← key</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; width: 150px;">44:G3 FALLBACK CAUSE<br/>[ BA02] YES(←) NO(→)</div> <p style="text-align: center;">← key</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; width: 150px;">44:G3 FALLBACK CAUSE<br/>[ BB07] YES(←) NO(→)</div> <p style="text-align: center;">← key</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; width: 150px;">FUNCTION NUMBER [ _ ]<br/>ENTER 01-43</div> </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <p style="text-align: center;">← key</p> </div> <div style="text-align: right; margin-right: 20px;">                     Note 1<br/>                     Note 2                 </div> |

**Note 1:** Changed only when G4 opt. mounted.

- 2:**
  - 54 types of service codes are displayed in order by pressing the ← key. (See G3 fallback service code list)
  - Use the → key to change whether G3 fallback is targeted.
  - An asterisk \* just before the service code is performed by G3 fallback.
  - The set values selected until now are valid even when the STOP key is pressed during processing.
- 3:**
  - Only when an I-FAX NIC option is installed.

**Table 2.5 G3 Fallback Object Service Code List (If G4 TX is faulty)**

| Classification | Code                                   | Description  |
|----------------|--|--|
| Dch layer 3    | BA01                                   | Unallocated (unassigned) number  |
|                | BA02                                   | No route to specified transit network  |
|                | BA03                                   | No route to destination  |
|                | BA06                                   | Channel unacceptable   |
|                | BA07                                   | Call awarded and being delivered in an established channel                             |
|                | BA10                                   | Procedure sequence error, Line disconnected during in-band procedure                   |
|                | BA11                                   | User busy  |
|                | BA12                                   | No user responding   |
|                | BA13                                   | No answer from user (user alerted)   |
|                | BA15                                   | Call rejected  |
|                | BA16                                   | Number changed   |
|                | BA1A                                   | Non-selected user clearing   |
|                | BA1B                                   | Destination out of order   |
|                | BA1C                                   | Invalid number format  |
|                | BA1D                                   | Facility rejected  |
|                | BA1E                                   | Response to STATUS-ENQUIRY   |
|                | BA1F                                   | Normal, unspecified  |
|                | BA22                                   | No circuit/channel available   |
|                | BA26                                   | Network out of order   |
|                | BA29                                   | Temporary failure  |
|                | BA2A                                   | Switching equipment congestion   |
|                | BA2B                                   | Access information discarded   |
|                | BA2C                                   | Requested circuit/channel not available  |
|                | BA2F                                   | Resources unavailable, unspecified   |
|                | BA31                                   | Quality of service unavailable   |
|                | BA32                                   | Requested facility not subscribed  |
|                | BA39                                   | Bearer capability not authorized   |
|                | BA3A                                   | Bearer capability not presently available  |
|                | BA3F                                   | Service or option not available, unspecified   |
|                | BA41                                   | Bearer capability not implemented  |
|                | BA42                                   | Channel type not implemented   |
|                | BA45                                   | Requested facility not implemented   |
|                | BA46                                   | Only restricted digital information bearer capability is available                     |
|                | BA4F                                   | Service or option not implemented, unspecified   |
|                | BA51                                   | Invalid call reference value   |
|                | BA52                                   | Identified channel does not exist  |
|                | BA53                                   | A suspended call exists, but this call identity does not                               |
|                | BA54                                   | Call identity in use   |
|                | BA55                                   | No call suspended  |
|                | BA56                                   | Call having the requested call identity has been cleared                               |
|                | BA58                                   | Incompatible destination   |
|                | BA5B                                   | Invalid transit network selection  |
|                | BA5F                                   | Invalid message, unspecified   |
|                | BA60                                   | Mandatory information element is missing   |
|                | BA61                                   | Message type non-existent or not implemented   |
|                | BA62                                   | Message not compatible with call state or message type non-existent or not implemented |
|                | BA63                                   | Information element non-existent or not implemented                                    |
| BA64           | Invalid information element contents   |  |
| BA65           | Message not compatible with call state |  |
| BA66           | Recovery on timer expiry               |  |
| BA6F           | Protocol error, unspecified            |  |
| BA7F           | Interworking, unspecified              |  |
| BB01           | CONN message wait time out             |  |
| BB07           | Reset request by network               |  |

All service code can be selected by G3 Fallback cause (Technical function: No. 43)

#### 2.2.1.4 User's Functions

This section explains the items usually set up by general users.

Table 2.6 shows the initial setting items and their purposes.

Each F.P. can be accessed by entering the corresponding function number on Function Programming.

The detailed procedure of the initial setting items will be explained on the following pages.

**Note:** S-ON: Effective if the service bit has been set on.  
FP: Function program setting  
TF: Technical function setting

## 1) User's Functions

**Table 2.6 (1/7) User's Functions**

| No. | Item  | Specifications   |
|-----|---|--|
| 1   | Auto dial<br>1) One-touch dial<br><br>2) Three-digit dial<br><br>3) Keypad dial<br><br>4) Chain dial<br><br>5) Mixed dial | <p>10 one-touch keys are provided.<br/>Max. 40 digits for each location number.</p> <p>In addition to an ordinary location number, another alternate location number can be registered in to each one-touch key. Purposes of this alternate location number, When a call to the first location number is not answered, the alternate location number will be automatically dialled.</p> <p>Capable of registering an e-mail address when installed with an I-FAX NIC option.<br/>Up to 64 characters can be input.<br/>Capable of designating a File Format or adding a Sender ID.</p> <p>100 different codes are provided.<br/>Three-digit location code; 001 to 100</p> <p>Max. 40 digits for each location number.</p> <p>With ten-key pad.<br/>Max. 40 digits for one operation</p> <p>The number of dialling digits can be expanded to longer digit numbers by chaining any number of the above 1), 2) and 3).</p> <p>Type of dialling can be changed from pulse dial to tone dial halfway in dialling process.<br/>The changing point is specified by the * key. This feature is not available in all countries.</p> |
| 2   | Manual dial   | With a telephone handset.  |
| 3   | Receive mode  | Selectable by key operation.   |
|     | 1) Auto receive mode  | Selectable by key operation.   |
|     | 2) Manual receive mode  | Selectable by key operation.   |
|     | 3) Telephone/fax automatic switchover   | Selectable by key operation.<br>The fax recognizes a fax call from a verbal call as follows:   |
|     |   | If the fax detects a call with a CNG signal, it starts an automatic document receive operation.  |
|     |   | If it detects a call without a CNG signal, it sounds the buzzer to indicate a voice call. Operator can answer the call by lifting the telephone handset.   |
|     |   | If he or she does not lift the handset within predetermined time (20 sec. or 35 sec.), the fax automatically starts a document receive operation.  |
|     |   | * FP + 10 (To determine the timer.)  |
|     |   | <b>Note:</b> Refer to page 109.  |

Table 2.6 (4/7) User's Functions

| No. | Item   | Specifications  |
|-----|--|---|
| 4   | Automatic redial                                   | <p>PTT parameter setting disables or enables this feature, and specifies redial times and redial intervals.</p> <p>* See 2.2.1.9 for the service bit condition depending on PTT parameters.</p>   |
| 5   | Last No. redial                                    | <p>“REDIAL” key is provided. There is no limit on number of repeat attempts. If machine is in Power Save mode (not available for ODA version) manual redial with REDIAL key is not possible.</p>  |
| 6   | Group dial   | <ul style="list-style-type: none"> <li>• 10 dialling groups</li> <li>Max. 110 locations</li> </ul> <p>Grouping some one-touch keys and some three-digit auto dial codes to which telephone numbers have been assigned. This group setting makes broadcast operation simple.</p> <ol style="list-style-type: none"> <li>1) OT for E-mail registration can be mixed with OT/AD for Tel No. registration.</li> <li>2) Search processing by the SEARCH key is performed. <ul style="list-style-type: none"> <li>• OT for Tel or E-mail registration is searched.</li> </ul> </li> </ol> |
| 7   | Telephone directory and location ID (Alpha search) | <p>In addition to fax numbers, an alpha/ numeric name can be assigned to each of one-touch keys and three-digit dial codes.</p> <p>Any location ID can be searched and displayed on LCD. Then direct dialling to the ID's station can be performed.</p> <p>There are two methods of searching:</p> <ol style="list-style-type: none"> <li>(1) Search based on the first character specified.</li> <li>(2) Searching by displaying all registered location IDs one after another in the lexicographical order.</li> </ol> <p>Location ID: Max. 15 characters</p>                     |
| 8   | Local copy   | <p>Printing resolution:</p> <p>Horizontal: 300 dpi (Fine, EX Fine), 200 dpi (STD)</p> <p>Vertical: 3.85 (STD), 7.7 (Fine) or 15.4 line/mm (EX Fine)</p>   |
| 9   | Multiple local copy                                | <p>Up to 50 copies.</p>   |
| 10  | Manual loading feeder                              | <p>One single sheet from the feeder below the paper exit can be copied.</p> <p>Example of sheets: Transparency for an overhead projector</p>  |

Table 2.6 (5/7) User's Functions

| No. | Item                                   | Specifications   |
|-----|--|--|
| 11  | Broadcast<br>(Memory transmission)     | <p>Max. 120 remote locations can be specified by the following means:</p> <ul style="list-style-type: none"> <li>• One-touch keys.</li> <li>• Three-digit auto dial codes.</li> <li>• 10 keypad dial number (Max.10)</li> </ul> <p>The setting of delayed transmission and delayed broadcast must not exceed the total number of specified time.</p> <p>When multiple locations are specified for one broadcast</p> <p>(1) The fax prints a broadcast entry report, if specified in operating sequence.</p> <p>(2) The fax can print a broadcast confirmation report. (FP + 02 To enable or disable this printout)</p> |
| 12  | Delayed transmission from the memory   | The fax can automatically transmit documents at 10 specified times from the memory.  |
| 13  | Polling transmission<br>(To be polled) | Document(s) placed on the feeder or a transmission image stored in memory can be collected by a remote station.  |
| 14  | Polling reception                      | The fax can collect documents from one remote station.   |
| 15  | Bulletin polling                       | A kind of polling transmission. Bulletin polling enables polling transmission many times until deleting the documents stored in the memory.  |
| 16  | Transmission preparation (Hopper)      | <p>An operator can prepare documents for transmission even while the fax is engaged in message reception. They will be automatically transmitted upon completion of the reception.</p> <p>An operator can also prepare documents for transmission during transmission from memory.</p>   |
| 17  | No toner reception                     | <p>The fax can temporarily store received messages in memory when toner has run out. The messages are printed when toner has been newly supplied or an operator presses the SELECT FUNCTION key followed by the one-touch key No. 2 under the LCD message "PRINT MEMORY MSG." in the standby mode.</p> <p>*FP + 22 (To enable or disable this function)</p>  |
| 18  | Smooth printing                        | The documents received in the STD mode can be printed at the FINE resolution by means of generating one line based on the two consecutive original lines and printing it between them.   |

Table 2.6 (6/7) User's Functions

| No. | Item        | Specifications   |
|-----|-------------|--|
| 19  | Dual Access | <p>The documents for transmission can be read into the memory even while the fax is engaged in another memory transmission, reception in the ECM or non-ECM mode.</p> <ol style="list-style-type: none"> <li>1) Operation of memory transmission while the fax is engaged in a communication (memory TX, memory RX or print mode RX).</li> <li>2) Copy while the fax is engaged in a communication (memory TX or memory RX).</li> </ol> <p><b>Note:</b> Condition for operation</p> <ol style="list-style-type: none"> <li>a) Copy is invalid when the machine is already engaged in an operation which is using or could use the printer.</li> <li>3) Call reception while the fax is engaged in scanning documents for memory transmission when the auto receive mode is in "FAX" or "T/F" mode, although "TEL" mode is not valid.</li> </ol> <p>Refer to sub-section 2.2.1.7 for dual access operation.</p> <p>For the patterns of dual access refer to the following, Dual Access Combination Table.</p> |



**Table 2.6 (7/7) User's Functions**

| No.  | Item                        | Specifications |         |                      |                |                    |
|--|-----------------------------|----------------|---------|----------------------|----------------|--------------------|
| <b>Dual Access Combination Table</b>           |                             |                |         |                      |                |                    |
| 1'st \ 2'nd                                    |                             | Reception      | Prefeed | Remote input display | Preparation TX | Scanning to Memory |
| ON HOOK  | Standby                     | ○              | ○       | ○                    | ○              | ○                  |
|  | During FAX Calling          | ×              | ○       | ○                    | ○              | ○                  |
| Call Reception                                 | During RING RESPONSE        | ×              | ○       | ○                    | ○              | ○                  |
|  | During detection of TEL/FAX | ×              | ○       | ×                    | ×              | ×                  |
|  | During TAD detection        | ×              | ○       | ×                    | ×              | ×                  |
|  | 1st Phase B                 | ×              | ○       | ○                    | ○              | ○                  |
| Feeder TX                                      | Calling - Transmission      | ×              | ×       | ×                    | ×              | ×                  |
|  | Transmission after scanning | ×              | ○       | ○                    | ○              | ○                  |
| Memory TX                                      | During Scanning             | ○              | ×       | ×                    | ×              | ×                  |
|  | Dialling and Calling        | ×              | ○       | ○                    | ○              | ○                  |
|  | During TX                   | ×              | ○       | ○                    | ○              | ○                  |
| Polling RX                                     | Dialling and Calling        | ×              | ○       | ○                    | ○              | ○                  |
| Memory RX                                      |                             | ×              | ○       | ○                    | ○              | ○                  |
| Paper RX                                       | Reception and print         | ×              | ○       | ○                    | ○              | ○                  |
|  | Residual Print Processing   | ○              | ○       | ○                    | ○              | ○                  |
|  | Memory reception            | ×              | ○       | ○                    | ○              | ○                  |
| During voice request is initiated.             |                             | ×              | ○       | ×                    | ×              | ×                  |
| During copy                                    |                             | ○              | ○       | ×                    | ×              | ×                  |
| During automatic printing of received messages |                             | ○              | ○       | ○                    | ○              | ○                  |
| During automatic printing of reports           |                             | ○              | ○       | ○                    | ○              | ○                  |
| During operation                               |                             | ×              | ○       | ×                    | ×              | ×                  |

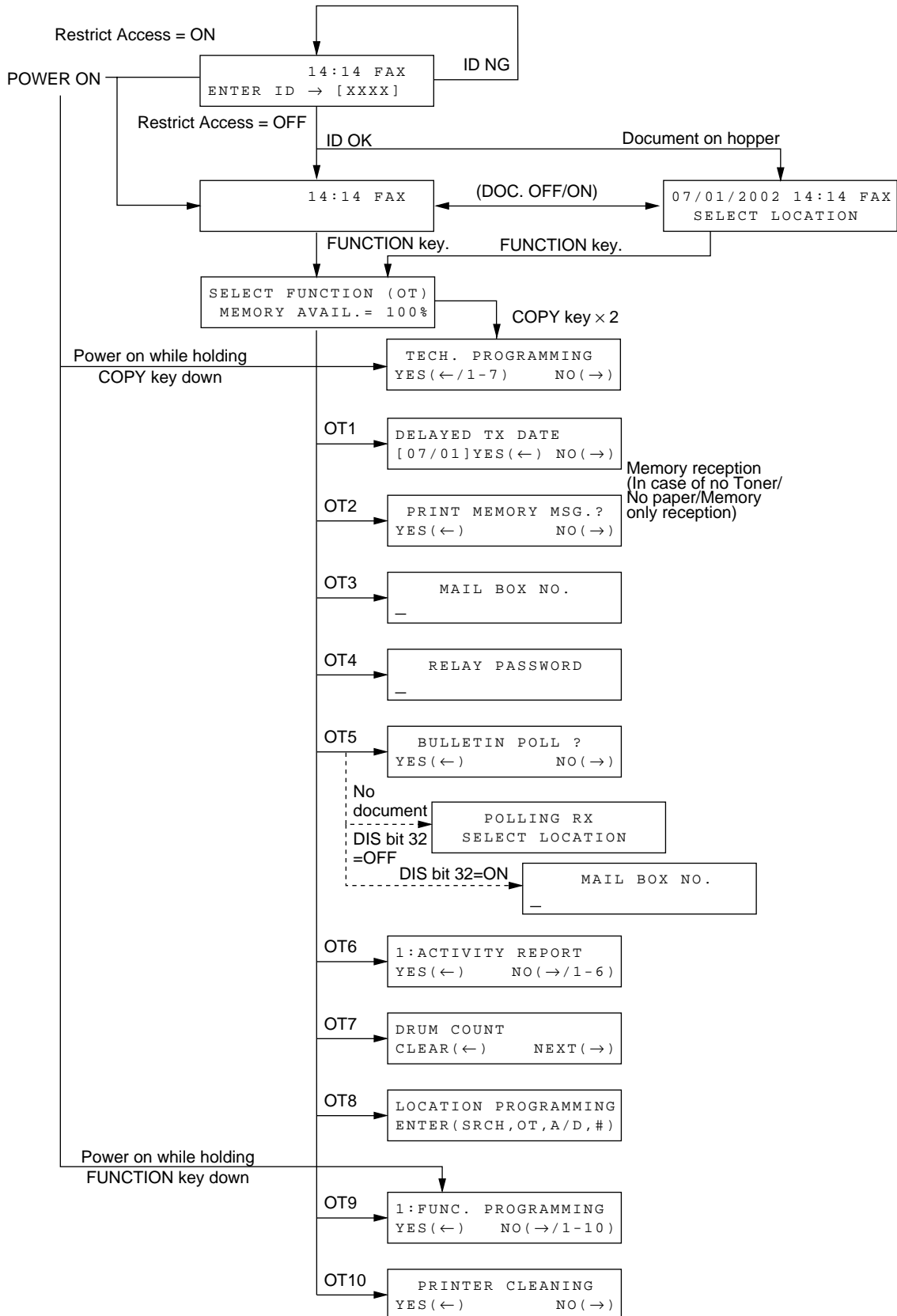
\* Operation during communication is not determined yet.

<Note> ○: Available, ×: Not available

2) User's Initial Settings

**Note:** The fonts displayed on the LCD operation panel may differ from fonts written this manual.

2)-1 One Touch Key Operations



**Note:** OT2, OT6 - OT10 are invalid during PC printing.

**Table 2.7 (1/6) User's Initial Settings (One-touch key Program)**

| F+OT No.                  | Item  | Specifications   |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
|---------------------------|---|--|-------------------|----------|--------------|----------|---------------------------|----------|------------------|----------|-------------------|----------|--------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|--------------------------|----------|--------------------------|----------|--------------|----------|-------------------|----------|
| 1                         | Delayed transmission (TX)   | This function enters a message transmission time(s) and location(s) for execution at a specified time. 10 specified times can be registered (within 3 days.)   |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| 2                         | <p>Print from Message in Memory (Print Memory MSG.)</p> <p>Print from Confidential Reception Message (Print Personal Box)</p> | <p>To print out the received messages from memory in "MSG. IN MEMORY" mode, or when the machine has run out of recording paper (including the door open and no toner state). When received messages are in the memory. "MSM. IN MEMORY" is indicated on the LCD. When printing in the Memory Only Reception, an operator has to print the received message by the Memory message printing operation.</p> <p>To print out the confidential received messages in the memory with 1-digit personal box number. The maximum number of personal boxes is 8. Personal boxes are numbered 1 to 8. When confidential received messages are in the memory, "MESSAGE IN MEMORY" is indicated on the LCD.</p>   |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| 3                         | Confidential transmission   | <p>This function transmits a Confidential-marked message to any one of 64 predesignated mailboxes provided in a distant machines.</p> <p>To program the mail box number 01 to 64.<br/>Available remote station's mail box numbers:</p> <table border="0"> <tr><td>OKIFAX 2400/2600:</td><td>01 to 40</td></tr> <tr><td>OKIFAX 1000:</td><td>01 to 16</td></tr> <tr><td>OKIFAX 2300/OF-18/OF-150:</td><td>01 to 16</td></tr> <tr><td>OKIFAX 38/OF-27:</td><td>01 to 64</td></tr> <tr><td>OKIFAX 2350/1050:</td><td>01 to 08</td></tr> <tr><td>OKIFAX 2450:</td><td>01 to 08</td></tr> <tr><td>OKIFAX 5200/5300:</td><td>01 to 08</td></tr> <tr><td>OKIFAX 5500/5600:</td><td>01 to 16</td></tr> <tr><td>OKIFAX 5700/5900:</td><td>01 to 16</td></tr> <tr><td>OKIFAX 5750/5950:</td><td>01 to 16</td></tr> <tr><td>OKIFAX 5780/5980:</td><td>01 to 16</td></tr> <tr><td>OKIOFFICE84/OKIFAX 4500:</td><td>01 to 08</td></tr> <tr><td>OKIFAX 4550/OKIOFFICE87:</td><td>01 to 08</td></tr> <tr><td>OKIFAX 4580:</td><td>01 to 08</td></tr> <tr><td>OKIFAX 5400/5650:</td><td>01 to 16</td></tr> </table> <p>Also capable of confidential transmissions by designating a SUB number for a different company's device that supports a confidential transmission function with a SUB capacity.</p> | OKIFAX 2400/2600: | 01 to 40 | OKIFAX 1000: | 01 to 16 | OKIFAX 2300/OF-18/OF-150: | 01 to 16 | OKIFAX 38/OF-27: | 01 to 64 | OKIFAX 2350/1050: | 01 to 08 | OKIFAX 2450: | 01 to 08 | OKIFAX 5200/5300: | 01 to 08 | OKIFAX 5500/5600: | 01 to 16 | OKIFAX 5700/5900: | 01 to 16 | OKIFAX 5750/5950: | 01 to 16 | OKIFAX 5780/5980: | 01 to 16 | OKIOFFICE84/OKIFAX 4500: | 01 to 08 | OKIFAX 4550/OKIOFFICE87: | 01 to 08 | OKIFAX 4580: | 01 to 08 | OKIFAX 5400/5650: | 01 to 16 |
| OKIFAX 2400/2600:         | 01 to 40  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 1000:              | 01 to 16  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 2300/OF-18/OF-150: | 01 to 16  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 38/OF-27:          | 01 to 64  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 2350/1050:         | 01 to 08  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 2450:              | 01 to 08  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 5200/5300:         | 01 to 08  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 5500/5600:         | 01 to 16  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 5700/5900:         | 01 to 16  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 5750/5950:         | 01 to 16  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 5780/5980:         | 01 to 16  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIOFFICE84/OKIFAX 4500:  | 01 to 08  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 4550/OKIOFFICE87:  | 01 to 08  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 4580:              | 01 to 08  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| OKIFAX 5400/5650:         | 01 to 16  |  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |
| 4                         | Relay broadcast initiate transmission   | <p>This function automatically originates a message call via relay key station (which must be equipped with OKIFAX 2600, OF-38, OF-27, OKIFAX5950 or equivalent) up to 120 locations for OKIFAX 2600 and 99 locations for OF-38 or OF-27.<br/>To program relay password.<br/>To enable or disable the relay report.</p> <p>When auto dial code number 100 is not assigned, relay broadcast report is not transmitted. When it is assigned, relay report is transmitted to fax number assigned to auto dial code.<br/>Also capable of relay request transmissions by designating a SUB number for a different company's device that supports a relay function with a SUB capacity.</p>  |                   |          |              |          |                           |          |                  |          |                   |          |              |          |                   |          |                   |          |                   |          |                   |          |                   |          |                          |          |                          |          |              |          |                   |          |

Table 2.7 (2/6) User's Initial Settings (One-touch key Program)

| F+OT No. | Item                           | Specifications   |
|----------|--------------------------------|--|
| 5        | Polling transmission/reception | <p>Polling TX: The documents placed on the feeder or a transmission image stored in memory can be collected by a remote station.</p> <p>Bulletin polling: A kind of polling transmission. Bulletin polling enables polling transmission many times until deleting the documents from one remote station.</p> <p>Polling RX: The fax can collect documents from one remote station.<br/>Also capable of Selective Polling by designating a SEP number for a different company's device that supports a polling function with a SEP capacity.</p>  |
| 6        | Report printing                | <p>The report print in 6 items are as follows:</p> <ol style="list-style-type: none"> <li>1. Activity report</li> <li>2. Broadcast message confirmation report (Multi location)</li> <li>3. Activity memory files report</li> <li>4. Phone directory report</li> <li>5. Configuration list without service default (Service default report if service bit sets to ON.)</li> <li>6. Protocol dump list</li> <li>7. Log report (Set to on Service bit)</li> <li>8. G4 Log. report (Operatable only at G4 opt. &amp; Service Bit = ON)</li> </ol> <p>* Refer to Reports and Lists of Chapter 1.</p>   |
| 7        | Selection of Counter display   | <p>The operation for displaying and clearing the print counters in five ways are as follows:</p> <ol style="list-style-type: none"> <li>1. Drum counter<br/>When I/D unit reaches run-out time, "CHANGE DRUM" is appeared in LCD. Under above condition, user can see the Drum message and clear. However, No. of counter is not shown for user (Service bit=OFF). After user changed the Drum and clear operation, "CHANGE DRUM" in LCD is displayed. However, the drum counter clear is possible even if the drum is not at the end of its lifespan.</li> <li>2. Toner counter<br/>This counter provided to serviceman to check the number of toner counter.<br/>When srvice bit=OFF, this counter message is skipped. When service bit=ON, this counter is cleared by operation.<br/>When TF31=ON, this counter is cleared by operation without Service bit ON/OFF (TF01). (User can clear the toner counter.)</li> <li>3. Drum (T) counter<br/>This counter to serviceman to know the total number of DRUM counter for the machine.<br/>When service bit=OFF, this counter message is skipped. When service bit=ON, this counter is cleared by operation.</li> </ol> |

Table 2.7 (3/6) User's Initial Settings (One-touch key Program)

| F+OT No. | Item   | Specifications  |
|----------|--|---|
| 8        | Location program<br>1. One-touch key<br><br>2. Three-digit auto dial program<br><br>3. Group setting | 4. Print counter<br>This counter is provided to user.<br>Display shows how many times recording paper has been printed.<br>But user cannot clear this number.<br><br>5. Scan counter<br>This counter is provided to user.<br>Display shows how many times document has been passed the ADF.<br>But user cannot clear this number.<br><br>One-touch keys allow registering:<br>(1) Telephone number (numeral, -, P and space) in 40 digits.<br>(2) Alternate fax telephone number in 40 digits. (additional registration)<br>(3) ID for the telephone directory function in 15 characters (alphabetic, numeric and symbolic).<br>(4) 10 one-touch keys are provided.<br><br>Auto-dial No. 001 to 100 allows registering telephone number in 40 digits and ID for the telephone directory maximum 15 characters (alphabetic, numeric and symbolic).<br><br>Grouping some one-touch keys and some three-digit auto dial codes to which telephone numbers have been assigned. 10 group programming are available.<br>The group programming makes multiple polling reception and broadcast operation simple. |
| 9        | User's programs<br>1. Function program   | 01: MCF (SINGLE-LOC.)<br>02: MCF (MULTI-LOC.)<br>03: ERR. REPORT (MCF.)<br>04: IMAGE IN MCF.<br>05: SENDER ID<br>06: MONITOR VOLUME<br>07: BUZZER VOLUME<br>08: CLOSED NETWORK<br>09: TX MODE DEFAULT<br>10: T/F TIMER PRG.<br>11: RING RESPONSE<br>12: DISTINCTIVE RING<br>13: PAPER SIZE<br>14: USER LANGUAGE<br>15: INCOMING RING<br>16: REMOTE RECEIVE<br>17: MEM./FEEDER SW.<br>18: POWER SAVE MODE<br>19: ECM FUNCTION<br>20: REMOTE DIAGNOSIS<br>21: PC/FAX SWITCH<br>22: NO TONER MEM RX<br>23: MEM FULL SAVE<br>24: CONTINUOUS TONE<br>25: INSTANT DIALING<br>26: RESTRICTED ACCESS<br>27: WIDTH REDUCTION<br>28: TONER SAVE<br>29: CNG COUNT<br>30: 600 DPI FAX TX<br>31: ISDN DIAL MODE  |

Table 2.7 (4/6) User's Initial Settings (One-touch key Program)

| F+OT No. | Item                        | Specifications   |
|----------|-----------------------------|--|
|          |                             | <p>32: SPEECH RECEIVE<br/> 33: OPTION I/F MODE<br/> 34: PAPER SIZE CHECK<br/> 35: PRINT JOB T.O.<br/> 36: FLATBED TX MODE<br/> 37: FLATBED TX T.O.<br/> 38: HALF SIZE SCAN</p> <p>Refer to Table 2.7 for specification of the function programs No. 01 through 34.</p>   |
|          | 2. Dial parameters          | <ol style="list-style-type: none"> <li>1. REDIAL TRIES</li> <li>2. REDIAL INTERVAL</li> <li>3. DIAL TONE DETECT</li> <li>4. BUSY TONE DETECT</li> <li>5. MF (TONE)/DP (PULSE)</li> <li>6. PULSE DIAL RATE</li> <li>7. PULSE MAKE RATIO</li> <li>8. PULSE DIAL TYPE</li> <li>9. MF(TONE) DURATION</li> <li>10. PBX LINE</li> <li>11. FLASH/NORMAL</li> <li>12. AUTO START</li> <li>13. DIAL PREFIX</li> </ol>   |
|          | 3. Clock adjustment         | <p>Refer to Table 2.6 and 2.2.1.9 for specification of dial parameter settings.</p>  |
|          | 4. System data program      | <p>Date and time adjustment.<br/> <b>Note:</b> Data outside 1996 to 2095 cannot be registered.</p> <p>(1) TSI/CSI<br/> Registration of TSI/CSI/CIG (numbers, + and space) in 20 digits.<br/> TSI: Transmitting Subscriber Identification<br/> CSI: Called Subscriber Identification<br/> CIG: Calling Subscriber Identification</p> <p>(2) SENDER ID<br/> Registration of sender ID (alphabetic, numeric and symbolic) in 32 digits.</p> <p>(3) CALL BACK NO.<br/> Registration of telephone number for call-back message (alphabetic, numeric and symbolic) in 20 digits.</p> |
|          | 5. Personal box programming | <p>To allow the operator (in this case, a person who wishes to assign a password to personal box) to assign a two functions to 8 personal-box.</p> <p>(a) Confidential RX<br/> (b) Bulletin Polling TX</p> <p>Used with confidential RX and Bulletin polling TX and Advanced T30 protocol. Personal box setting for Bulletin poll using SEP frame and Confidential using SUB frame when remote machine has a SEP/SUB capability.<br/> The box No. 0 is used for only global Bulletin Polling TX.</p>   |

Table 2.7 (5/6) User's Initial Settings (One-touch key Program)

| F+OT No. | Item                             | Specifications  |
|----------|----------------------------------|---|
|          | 6. Forwarding number programming | <p>Specify the destination of forwarding for incoming call. When the transfer destination telephone number is set, forwarding can be specified.</p> <p>The message is first received in the memory and when this reception is completed, the fax automatically transfers the message to one designated location.</p> <ol style="list-style-type: none"> <li>1) Number of forwarding for incoming call destination that can be specified.</li> <li>2) Number of characters used to specify a destination. MAX 40 characters.</li> </ol>  |
|          | 7. Memory password programming   | <p>Registering the password required (4-digit numerals) for outputting the data received by Memory Only Reception mode or change from Memory Only Reception mode. When the four-digit numeric password is registered. The password input is required upon outputting documents or change from Memory Only reception mode.</p>   |
|          | 8. I-FAX NIC OPTIONS             | <p>Capable of operating when installed with an I-FAX NIC option.</p> <p>The following settings become capable.</p> <ol style="list-style-type: none"> <li>1) I-FAX NIC SETTINGS<br/>Capable of setting items related to I-FAX such as Coding Mode or File Format.</li> <li>2) POP INTERVAL<br/>Capable of selecting from OFF/1MIN/5MIN/10MIN/30MIN/60MIN/4 user-programmed times.</li> <li>3) NETWORK SETTINGS<br/>Settings related to network connection such as IP Address and Subnet Mask become capable. Furthermore, the data is stored in the I-FAX NIC option side.</li> <li>4) Capable of initializing data stored in the I-FAX NIC option board.</li> </ol> <p>For details, refer to "I-FAX NIC OPTION" in the Appendix.</p> |
|          | 9. INTERNET RX                   | <p>Capable of operating when installed with an I-FAX NIC option.</p> <p>Capable of manual POP reception.</p> <p>For details, refer to "I-FAX NIC OPTION" in the Appendix.</p>   |
|          | 10. Restrict ID programming      | <p>Restrict ID is a function available only person who knows Password, and this function can register 24 types of ID (Department No.) when Restrict Access of user's setting No. 26 is set to ON.</p> <p>* Only when Restrict Access = ON.</p>  |

Table 2.7 (5/6) User's Initial Settings (One-touch key Program)

| F+OT No. | Item                 | Specifications  |
|----------|----------------------|---|
|          | 11. ISDN programming | <p>Sets to Country code, ISDN No. (subscriber number), ISDN ID (subscriber code) and ISDN sub address.</p> <p>1) Setting values<br/>This setting consists of the following:</p> <ul style="list-style-type: none"> <li>• Country code: 3 characters (digits only)</li> <li>• ISDN No. (subscriber number): 20 characters (digits only)</li> <li>• ISDN ID (subscriber code): 10 characters (alphabetic characters, lowercase characters)</li> </ul> <p>• ISDN sub address: 19 characters (digits only)</p> <p>Handling in G3 mode<br/>Handling in G4 mode<br/>Used for sub collation.</p> <p><b>Note:</b> This setting can be made when G4 option is mounted.</p> |
| 10       | Printer cleaning     | <p>This drum cleaning function removes the residual toner on the I/D (image drum) Unit surface by printing.</p>   |



## 2)-2 Function Program

**Table 2.8 (1/6) User's Initial Settings (Function Program)**

| P.F. No. | Item   | Specifications   |
|----------|--|--|
| 01       | Message confirmation report (Single location)    | <p>Enables or disables the automatic message confirmation report printing after a single location call.</p> <p>ON: Printing the MCF report.<br/>OFF: Disables this function.</p>   |
| 02       | Message confirmation report (Multiple locations) | <p>Enables or disables the automatic message confirmation report printing after a multiple polling or broadcast.</p> <p>ON: Prints the MCF report.<br/>OFF: Disables this function.</p>  |
| 03       | Error report (MCF)                               | <p>Enables or disables the automatic error report printing when transmission error occurs.<br/>(Excepts for SERVICE CODE "0000".)</p> <p>ON: Printing the error report.<br/>OFF: Disables this function.</p>   |
| 04       | Image in MCF                                     | <p>Selects the automatic printing of the image on the first sheet below the message confirmation report.</p> <p>PART: Prints the front portion in equal size.<br/>WHOLE: Reduces in the sub-scan direction and prints the entire image.<br/>OFF: Disables this function.</p> |
| 05       | Sender ID  | <p>The fax can transmit programmed alphanumeric message, such as company's name consisting of up to 32 characters. Enables or disables the sender ID function.<br/>* (Outside only)</p> <p>ON: Enables<br/>OFF: Disables</p>   |
| 06       | Monitor Volume                                   | <p>Controls the volume.</p> <p>OFF/Low/Mid./H-Mid./High selectable.</p>  |
| 07       | Buzzer volume                                    | <p>Selects the sound volume of each buzzer (end of communication buzzer, voice request buzzer and off-hook alarm) and software ringer from high, low and middle levels.</p> <p>Low/Mid/High selectable.</p> <p><b>Note:</b> Fixed a low level for key touch tone.</p>        |

Table 2.8 (2/6) User's Initial Settings (Function Program)

| P.F. No. | Item                                    | Specifications  |
|----------|---|---|
| 08       | Closed network                          | <p>The fax compares lower four digits of TSI/CSI received from remote station with fax numbers registered locally for one-touch dial and three-digits autodial. If unmatched, the communication will be automatically disconnected.</p> <p>OFF/RX only/TX and RX selectable.</p> <p>* Prevention of direct mail or wrong number calls.</p> <p>(Reference)<br/>           TSI: Transmitting subscriber identification<br/>           CSI: Called subscriber identification</p> |
| 09       | TX mode default                         | <p>Selects automatically the mode set up when a document is loaded on the feeder.</p> <p>The following combinations are selectable.</p> <p>STD/NORMAL→STD/DARK→STD/LIGHT→<br/>           FINE/NORMAL→FINE/DARK→FINE/LIGHT→<br/>           EX.FINE/NORMAL→EX.FINE/DARK→<br/>           EX.FINE/LIGHT→PHOTO/NORMAL→<br/>           PHOTO/DARK→PHOTO/LIGHT→<br/>           STD/NORMAL→•••</p>  |
| 10       | Telephone/fax automatic switchover time | <p>Specifies the time for which the fax alerts an operator on reception of a call in the telephone/fax automatic switchover mode.</p> <p>20 sec./35 sec. selectable</p> <p>Refer to page 2-30</p>   |
| 11       | Ring response time                      | <p>User can register ring response time if National code is:<br/>           INT'L, GBR, NOR, SWE, USA, HOL, ESP.<br/>           ITA, GRE, IRL, FIN, DEN, HUN, TCH, POL, POR, LTA,<br/>           MEX, CHN, RUS, TWN or GER</p> <p>Selects the ring response time.</p> <p>1 ring/5/10/15/20 sec. selectable.</p>   |
| 12       | Distinct ring                           | <p>Specifies the detected distinct ring. (not available in all countries)</p> <p>OFF/ON/SET selectable.</p>   |
| 13       | Paper size                              | <p>Selects A4, LETTER or LEGAL 13", LEGAL 14" by this function.</p> <p>The operator must select the preferable paper size as the machine cannot detect the paper size automatically.</p>  |
| 14       | User language                           | <p>A choice of 5 languages for LCD and print message are available. GER, FRE etc. are displayed instead of OTHER.</p> <p>ENGLI/OTHER selectable.</p>  |

Table 2.8 (3/6) User's Initial Settings (Function Program)

| P.F. No. | Item                     | Specifications   |
|----------|--------------------------|--|
| 15       | Incoming ring            | <p>Instead of ringer circuit, software can control built-in speaker to ring sound.</p> <p>To enable (ON) or disable (OFF) or distinctive ring (DRC) a software generated ring sound to indicate arrival of an incoming bell.</p>   |
| 16       | Remote receive           | <p>This function is used to transfer a call received by an external telephone set (connected to fax) by entering two-digit MF tones if the remote receive setting is not OFF</p> <p>The following combinations are selectable.</p> <p>00/11/22/33/44/55/66/77/88/99/**/###/OFF selectable.</p> <p><b>Note:</b> Parallel pick-up control inhibited when this is set to OFF.</p>                                       |
| 17       | Memory and feeder switch | <p>Switches the transmission mode between the memory and feeder.</p> <p>MEM. TX/FEEDER TX selectable.</p> <p><b>Note:</b> This function becomes effective when Instant Dial of No. 25 is set to OFF.</p>   |
| 18       | Power save mode          | <p>The power supply will be fed to all circuits of a fax machine whenever the fax goes to the operating state. The power save mode has reduced the power consumption at standby to below 0.5 W.</p> <p><b>Note:</b> Power save mode is not available for ODA version.</p> <p>Pre-heating time (Standby to print):<br/>Approx 30 sec</p> <p>Enables or disables power save mode<br/>ON: Enables<br/>OFF: Disables</p> |
| 19       | ECM function             | <p>Enables or disables ECM (error corection mode) communication.</p> <p>ON: Enables<br/>OFF: Disables</p>  |
| 20       | Remote diagnosis         | <p>Enables or disables the remote diagnosis function when the machine can allow remote diagnosis from remote center.</p> <p>ON: Enables<br/>OFF: Disables</p>  |
| 21       | PC/FAX switch            | <p>To enable or disable PC interface function.</p> <p>When PC reception is not available, for example, application is not activated on the PC or cable is missing between PC and fax etc., this setting allows to switch from PC to fax reception automatically.</p> <p>ON: Automatically change to fax reception<br/>OFF: No reception</p>  |

**Table 2.8 (4/6) User's Initial Settings (Function Program)**

| P.F. No.       | Item  | Specifications   |         |       |                |       |         |       |
|----------------|---|--|---------|-------|----------------|-------|---------|-------|
| 22             | No toner memory reception (NO Toner MEM RX) | <p>Enables or disables the memory reception when the fax is the toner low condition.</p> <p>ON: Receives the message in the memory reception when the fax is the toner low condition. The messages are printed when toner has been newly supplied.</p> <p>OFF: Prints the message even the remaining toner level is low or none. Print quality is not guaranteed.</p>  |         |       |                |       |         |       |
| 23             | Memory full save (MEM Full Save)            | <p>Broadcast transmission and other features originate calls after all the document read in memory. When Memory Full occurs during reading documents and operator time out occur, all the readout data must be deleted (OFF setting) or all the data must be sent (ON setting).<br/>Select either ON or OFF setting as follows:</p> <p>ON: Selecting display<br/>OFF: Selecting delete at all times.</p> <p><b>Note:</b> Operator timeout means operator does not respond during 59 seconds.</p>   |         |       |                |       |         |       |
| 24             | Continuous Tone                             | <p>Setting of sounding warning tone after reception.</p> <p>ON: Warning tone sounding stops by operator's STOP key pressing<br/>OFF: No warning tone</p>   |         |       |                |       |         |       |
| 25             | Instant Dialing                             | <p>Setting to start reading documents upon call origination when transmitting.</p> <p>ON: Dialing while document scanning<br/>OFF: Dialing after document scanning</p>   |         |       |                |       |         |       |
| 26             | Restricted Access                           | <p>Restricted Access limits accessible users by setting a password beforehand. Inputting the password then enables the user's access to the machine (FAX terminal).</p> <p>ON: Enables Restricted Access<br/>OFF: Disables</p>   |         |       |                |       |         |       |
| 27             | Width Reduction                             | <p>This function can print characters written at the edges of a document.<br/>Switches the reduction of the horizontal scanning direction.</p> <p>ON: Reduction printing (216 mm to 203 mm)<br/>Reduction rate is shown as below.</p> <table border="1"> <tr> <td>A4 size</td> <td>97.4%</td> </tr> <tr> <td>Except A4 size</td> <td>94.3%</td> </tr> </table> <p>Reception message</p> <table border="1"> <tr> <td>300 DPI</td> </tr> <tr> <td>92.6%</td> </tr> </table> <p>OFF: 203 mm printing</p> | A4 size | 97.4% | Except A4 size | 94.3% | 300 DPI | 92.6% |
| A4 size        | 97.4%                                       |  |         |       |                |       |         |       |
| Except A4 size | 94.3%                                       |  |         |       |                |       |         |       |
| 300 DPI        |   |  |         |       |                |       |         |       |
| 92.6%          |   |  |         |       |                |       |         |       |

Table 2.8 (5/6) User's Initial Settings (Function Program)

| P.F. No. | Item            | Specifications  |
|----------|-----------------|---|
| 28       | Toner save      | <p>Determine whether toner saving is to be performed during fax printing.</p> <p>When a LAN/PC printer is used, this setting is ignored and the command from the host is executed.</p> <p>ON(Toner saving performed)/OFF(Toner saving is not performed)</p>   |
| 29       | CNG Count       | <p>When T/F, TAD, or Parallel pickup is operating in CNG signal detection processing, this setting can be shifted to the facsimile reception mode at the time of number of CNG signal detection times are equal to the set values.</p> <p>1 - 5 (in one-tray steps)</p> <ul style="list-style-type: none"> <li>• Selection is skipped over when the ISDN board is mounted (selection allowed if SERVICE BIT = ON).</li> </ul>   |
| 30       | 600 DPI FAX TX  | <p>Set the operation when EX.FINE is selected for G3 transmission.</p> <p>ON: 600 DPI/300 DPI/15.4, <math>\mu</math>/mm are capable.</p> <p>OFF: 300 DPI/15.4, <math>\mu</math>/mm are capable.</p>   |
| 31       | ISDN Dial Mode  | <p>Determine whether G4 communication is to be performed by calling a signal remote machine by pressing ten-keys when an G4 option is mounted.</p> <p>G3 MODE(G3 communication)/G4(G4 communication)</p> <ul style="list-style-type: none"> <li>• This setting cannot be made when an G4 option board is not provided.</li> </ul>   |
| 32       | Speech Receive  | <p>Determine whether the incoming call is answered when the information transmission capacity instructed by the network is voice transmission.</p> <p>ON(Answered)/OFF(Not answered)</p> <ul style="list-style-type: none"> <li>• This setting cannot be made when G4 option board is not provided.</li> </ul>  |
| 33       | OPTION I/F MODE | <p>Select the function for when a 1284 option is installed.</p> <p>MFPI: "MFPI" Mode.<br/>I/F applied with a traditional MFPI protocol.</p> <p>SCN.: "Flatbed Scanner" Mode.<br/>Flatbed Scanner connection and Download Print connected directly to a PC.</p> <p>NET.: "Download Print (through Network Server)" Mode.<br/>Download Print via a Network Server.</p> <ul style="list-style-type: none"> <li>* Capable of setting only when installed with a 1284 option.</li> <li>* Flatbed related functions are disabled when MFPI is selected.</li> <li>* The difference between SCN. and NET. is only for handling data that is determined as text code (discarded when SCAN. is selected but prints corresponding characters when NET. is selected), however, Flatbed Scanner will operate in either settings.</li> <li>* After changing the setting of this function, you must reboot a machine.</li> </ul> |

Table 2.8 (6/6) User's Initial Settings (Function Program)

| P.F. No. | Item             | Specifications  |
|----------|------------------|---|
| 34       | Paper Size Check | <p>Sets to check or not the recording paper size specified by the command that set by the terminal for PC printing in Download Print Mode.</p> <p>ON(Checked)/OFF(Not checked)</p> <ul style="list-style-type: none"> <li>The operation of the machine when paper size differs is as follows:</li> </ul> <p>ON: Paper request appears just before printing and recording paper size jam is verified after activation of printing.</p> <p>OFF: Paper request does not appear just before printing and recording paper size jam is verified after activation of printing.</p> <p><b>Note:</b> Setting is disabled when OPTION I/F MODE is MFPI.</p> |
| 35       | Print Job T.O.   | <p>Sets to interrupt printing when job-end command cannot be detected within the set time to store the data received from Centro I/F in print buffer for PC printing in Download Print Mode. Also this setting applies to the reception from a Flatbed Scanner, where both for Copy/FAX TX, the setting takes on the value of time to any interruption of receive data at some midpoint in a page.</p> <p>5SEC/30SEC/5MIN</p> <p><b>Note:</b> Setting is disabled when OPTION I/F MODE is MFPI.</p>   |
| 36       | FLATBED TX MODE  | <p>Set the default resolution upon FAX TX when connected with a Flatbed Scanner.</p> <p>STD (8 × 7.7 transmission). /FINE (300 × 300DPI transmission)</p> <p>* Capable of setting only when a 1284 option is installed.<br/>* Setting is disabled when OPTION I/F MODE = "MFPI".</p>  |
| 37       | FLATBED TX T.O.  | <p>Set the T.O time for data reception standby upon FAX TX when connected with a Flatbed Scanner.</p> <p>OFF/30 SEC/1 MIN</p> <p>* Capable of setting only when a 1284 option is installed.<br/>* Setting is disabled when OPTION I/F MODE = "MFPI".</p>  |
| 38       | HALF SIZE SCAN.  | <p>Set whether to discard the bottom half of the read data received by the Flatbed Scanner.</p> <p>ON: Discard / OFF: Does not discard.</p> <p>* Capable of setting only when a 1284 option is installed.<br/>* Setting is disabled when OPTION I/F MODE = "MFPI".</p>  |

| No. | User Setting Items | Setting Selection                        | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 10     | 11     | 13     | 14     | 15    | 16     | 17     | 18     | 19     | 20     | 21     | Note |
|-----|--------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------|
| 1   | MCF (single-loc.)  | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 2   | MCF (multi-loc.)   | ON/OFF                                   | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 3   | ERR.REPORT (MCF)   | ON/OFF                                   | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 4   | IMAGE IN MCF.      | OFF/PART/WHOLE                           | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  | WHOLE  |      |
| 5   | SENDER ID          | ON/OFF                                   | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 6   | MONITOR VOLUME     | OFF/LOW/MID./H-MID/HIGH                  | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   | MID.  | MID.   | MID.   | MID.   | MID.   | MID.   | MID.   |      |
| 7   | BUZZER VOLUME      | LOW/MID/HIGH                             | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID    | MID   | MID    | MID    | MID    | MID    | MID    | MID    |      |
| 8   | CLOSED NETWORK     | OFF/T/R/RX                               | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 9   | TX MODE DEFAULT    | STD/FINE/EX-FINE/PHOTO-NORMAL/DARK/LIGHT | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD   | STD    | STD    | STD    | STD    | STD    | STD    |      |
| 10  | T/F TIMER PRG.     | 20 sec/35 sec                            | 35     | 35     | 20     | 35     | 20     | 35     | 35     | 35     | 35     | 35     | 35     | 20     | 20     | 35     | 35    | 35     | 20     | 35     | 20     | 35     | 35     |      |
| 11  | RING RESPONSE      | 1 ring/5 sec/10 sec/15 sec/20 sec        | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 5sec  | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring | 1 ring |      |
| 12  | DISTINCTIVE RING   | OFF/ON/SET                               | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 13  | PAPER SIZE         | 1st Tray=A4/LET./LGL13/LGL14             | LET    | LET    | A4     | A4     | A4     | A4     | A4     | A4     | A4     | A4     | A4     | LET    | A4     | A4     | A4    | A4     | A4     | A4     | A4     | A4     | A4     |      |
| 14  | USER LANGUAGE      | LNG1/LNG2/LNG3/LNG4/LNG5                 | LNG1   | LNG1   | LNG1   | LNG2   | LNG1   | LNG1   | LNG1   | LNG1   | LNG1   | LNG1   | LNG1   | LNG1   | LNG2   | LNG2   | LNG2  | LNG2   | LNG2   | LNG2   | LNG2   | LNG2   | LNG1   |      |
| 15  | INCOMING RING      | OFF/ON/DRG                               | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 16  | REMOTE RECEIVE     | OFF/001/1/2/2/...../88/99*/##            | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | **     | 11     | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 17  | MEM./FEED SWITCH   | MEMORY/FEEDER                            | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.  | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   | MEM.   |      |
| 18  | POWER SAVE MODE    | ON/OFF                                   | OFF    | OFF    | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 19  | ECM FUNCTION       | ON/OFF                                   | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 20  | REMOTE DIAGNOSIS   | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 21  | PC/FAX SWITCH      | ON/OFF                                   | OFF    | ON     | OFF    | ON     | OFF    | ON     | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 22  | NO TONER MEM. RX   | ON/OFF                                   | OFF    | OFF    | ON     | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 23  | MEM. FULL SAVE     | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 24  | CONTINUOUS TONE    | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 25  | INSTANT DIALING    | ON/OFF                                   | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 26  | RESTRICT ACCESS    | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 27  | WIDTH REDUCTION    | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 28  | TONER SAVE         | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |
| 29  | CNG COUNT          | 1-5                                      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1     | 1      | 1      | 1      | 1      | 1      | 1      |      |
| 30  | 600 DPI FAX TX     | ON/OFF                                   | OFF    | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 31  | ISDN DIAL MODE     | G4 MODE/G3 MODE                          | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4     | G4    | G4     | G4     | G4     | G4     | G4     | G4     |      |
| 32  | SPEECH RECEIVE     | ON/OFF                                   | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 33  | OPTION I/F MODE    | MFPI/SCN./NET.                           | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI  | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   | MFPI   |      |
| 34  | PAPER SIZE CHECK   | ON/OFF                                   | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON     | ON    | ON     | ON     | ON     | ON     | ON     | ON     |      |
| 35  | PRINT JOB T.O.     | 5 sec/30 sec/5 min                       | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  |      |
| 36  | FLATBED TX MODE    | STD/FINE                                 | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD    | STD   | STD    | STD    | STD    | STD    | STD    | STD    |      |
| 37  | FLATBED TX T.O.    | OFF/30 sec/1 min                         | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  | 30sec  |      |
| 38  | HALF SIZE SCAN     | ON/OFF                                   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    | OFF   | OFF    | OFF    | OFF    | OFF    | OFF    | OFF    |      |

Table 2.9 (1/2) User Default Setting

| No. | User Setting Items   | Setting Selection                     | 1     | 2     | 3                | 4                | 5     | 6     | 7     | 8     | 9     | 10    | 10    | 10    | 11    | 13    | 14    | 15    | 16    | 17    | 18    | 19      | 20    | 21    | Note |
|-----|----------------------|---------------------------------------|-------|-------|------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|------|
|     |                      |                                       | ODA   | LTA   | E-INT E-GERE-FRE | E-INT E-GERE-FRE | 0-AUS | 0-NZL | 0-SIN | 0-HNG | L-AG  | IRL   | DEN   | SWE   | NOR   | SUI   | AUT   | HOL   | ITA   | ESP   | CHN   | Factory |       |       |      |
| 1   | I-FAX NIC OPTIONS    |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | I-FAX NIC SETTINGS   |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
| 1   | TEXT PRINT           | ON/OFF                                | ON    | OFF   | OFF              | OFF              | ON    | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF     | OFF   | OFF   |      |
| 2   | HEADER PRINT         | OFF/TYPET1/TYPET2                     | TYPE1 | TYPE1 | TYPE1            | TYPE1            | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1 | TYPE1   | TYPE1 | TYPE1 |      |
| 3   | CODING MODE          | MH/MR/MMR                             | MH    | MH    | MH               | MH               | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH    | MH      | MH    | MH    |      |
| 4   | EX. FINE MIDE        | 300DPI/600DPI                         | 300   | 300   | 300              | 300              | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300     | 300   | 300   |      |
| 5   | SENDER ID (EMAIL)    | ON/OFF                                | ON    | ON    | ON               | ON               | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON      | ON    | ON    |      |
| 6   | SEND FILE FORMAT     | TIFF/PDF                              | TIFF  | TIFF  | TIFF             | TIFF             | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF  | TIFF    | TIFF  | TIFF  |      |
| 7   | SEND NOTIFICATION    | ON/OFF                                | ON    | ON    | ON               | ON               | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON    | ON      | ON    | ON    |      |
| 8   | I-FAX NIC UPDATE     | ON/OFF                                | OFF   | OFF   | OFF              | OFF              | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | OFF     | OFF   | OFF   |      |
| 2   | POP INTERVAL         | OFF/1MIN/5MIN/10MIN/30MIN/60MIN/DAILY | 5MIN  | 5MIN  | 5MIN             | 5MIN             | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN  | 5MIN    | 5MIN  | 5MIN  |      |
| 3   | NETWORK SETTINGS     |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 1 IP ADDRESS         |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 2 SUBNET MASK        |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 3 DEFAULT GATEWAY    |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 4 SMTP SRV           |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 5 POP SRV            |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 6 POP ID             |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 7 POP PASS.          |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 8 DNS P. SRV ADDR.   |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 9 DNS S. SRV ADDR.   |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
|     | 10 FAX EMAIL         |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
| 4   | (NETWORK INITIALIZE) |                                       |       |       |                  |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |

There is setting data in the NIC side.

Table 2.9 (2/2) User Default Setting



### 2.2.1.5 User's Functions Example

**Note:** The fonts displayed on the LCD operation panel may differ from fonts written this manual.

#### 1) Function Program

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode.  
(In case of no message in memory)
- Press  key.
- Enter two-digit function number, then the display will show the set item corresponding to the number entered.  
If you want to set up all or several items starting with 01, then enter 01.

#### The display shows:

```
1:FUNC. PROGRAMMING
YES(←) NO(→/1-9*#)
```

```
FUNCTION NO. [   ]
ENTER 01-39
```

To an individual setting item.  
(See Table 2.10)

Table 2.10 (1/4) User's Functions

| Tap No. | Name of Function                                 | The Display Shows  |
|---------|--|--|
| 0 1     | Message confirmation report (Single location)    | <div style="border: 1px solid black; padding: 2px; display: inline-block;">01:MCF(SINGLE-LOC.)<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>  |
| 0 2     | Message confirmation report (Multiple locations) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">02:MCF(MULTI-LOC.)<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>   |
| 0 3     | Error report                                     | <div style="border: 1px solid black; padding: 2px; display: inline-block;">03:ERR. REPORT(MCF.)<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>                                       |
| 0 4     | Image in MCF.                                    | <div style="border: 1px solid black; padding: 2px; display: inline-block;">04:IMAGE IN MCF.<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>OFF → PART → WHOLE<br/>↑         </div>                              |
| 0 5     | Sender ID  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">05:SENDER ID<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>   |
| 0 6     | Monitor volume                                   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">06:MONITOR VOLUME<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting<br/>X: OFF → LOW → MID.<br/>↑<br/>HIGH ← H-MID. ←         </div>                 |
| 0 7     | Buzzer volume                                    | <div style="border: 1px solid black; padding: 2px; display: inline-block;">07:BUZZER VOLUME<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: MID → HIGH → LOW<br/>↑         </div>                             |
| 0 8     | Closed network                                   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">08:CLOSED NETWORK<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting<br/>X: T/R → RX → OFF<br/>↑         </div>                                       |
| 0 9     | TX mode default                                  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">09:TX MODE DEFAULT<br/>YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting<br/>Resolution &amp; ORIGINAL<br/>Note 1:         </div>                              |
| 1 0     | Telephone/fax automatic switchover timer         | <div style="border: 1px solid black; padding: 2px; display: inline-block;">10:T/F TIMER PRG.<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: 20SEC ⇄ 35SEC         </div>                                     |
| 1 1     | Ring response time                               | <div style="border: 1px solid black; padding: 2px; display: inline-block;">11:RING RESPONSE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting<br/>Note 2:<br/>X: 1RING → 05SEC → 10SEC → 15SEC<br/>↑<br/>20SEC ←         </div> |
| 1 2     | Distinctive ring                                 | <div style="border: 1px solid black; padding: 2px; display: inline-block;">12:DISTINCTIVE RING<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF → ON → SET<br/>↑         </div>                            |

Table 2.10 (2/4) User's Functions

| Tap No. | Name of Function                                   | The Display Shows   |
|---------|--|---|
| 1 3     | Paper size   | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           13:PAPER SIZE<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting         </div> <p style="text-align: center; margin-top: 10px;">X: A4 → LET → LGL 13 → LGL 14</p>  |
| 1 4     | User language                                      | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           14:USER LANGUAGE<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting         </div> <div style="text-align: right; margin-top: 5px;">Note 5</div> <p style="text-align: center; margin-top: 10px;">X: ENG. → (Other) → (Other) → ...</p> |
| 1 5     | Incoming ring                                      | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           15:INCOMING RING<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting (Toggle)         </div> <p style="text-align: right; margin-top: 5px;">X: OFF → ON → DRC</p>  |
| 1 6     | Remote receive                                     | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           16:REMOTE RECEIVE<br/>           [ X ] YES(←) NO(→)         </div> <p style="margin-top: 10px;">OFF 00 → 11 → 22 → 33 → 44 → 55 → 66 → 77 → 88 → 99</p> <p style="text-align: right; margin-top: 5px;">## ← ** ←</p>   |
| 1 7     | Memory and feeder selection                        | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           17:MEM/FEEDER SW.<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting         </div> <p style="text-align: right; margin-top: 5px;">X: MEM. ⇔ FEED.</p>  |
| 1 8     | Power save mode<br>(not available for ODA version) | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           18:POWER SAVE MODE<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting (Toggle)         </div> <p style="text-align: right; margin-top: 5px;">X: OFF ⇔ ON</p>  |
| 1 9     | ECM function                                       | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           19:ECM FUNCTION<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting (Toggle)         </div> <p style="text-align: right; margin-top: 5px;">X: OFF ⇔ ON</p>   |
| 2 0     | Remote diagnosis                                   | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           20:REMOTE DIAGNOSIS<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting (Toggle)         </div> <p style="text-align: right; margin-top: 5px;">X: OFF ⇔ ON</p>   |
| 2 1     | PC/FAX switch                                      | <div style="border: 1px solid black; padding: 5px; width: fit-content;">           21:PC/FAX SWITCH<br/>           [ X ] YES(←) NO(→)         </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting (Toggle)         </div> <p style="text-align: right; margin-top: 5px;">X: OFF ⇔ ON</p>  |

Table 2.10 (3/4) User's Functions

| Tap No. | Name of Function          | The Display Shows   |
|---------|---------------------------|---|
| 2 2     | No toner memory reception | <div style="border: 1px solid black; padding: 2px; display: inline-block;">22:NO TONER MEM. RX<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>   |
| 2 3     | Memory full save          | <div style="border: 1px solid black; padding: 2px; display: inline-block;">23:MEM FULL SAVE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>  |
| 2 4     | Continuous tone           | <div style="border: 1px solid black; padding: 2px; display: inline-block;">24:CONTINUOUS TONE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>  |
| 2 5     | Instant dialing           | <div style="border: 1px solid black; padding: 2px; display: inline-block;">25:INSTANT DIALING<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>  |
| 2 6     | Restricted access         | <div style="border: 1px solid black; padding: 2px; display: inline-block;">26:RESTRICT ACCESS<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>  |
| 2 7     | Width reduction           | <div style="border: 1px solid black; padding: 2px; display: inline-block;">27:WIDTH REDUCTION<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>  |
| 2 8     | Toner save                | <div style="border: 1px solid black; padding: 2px; display: inline-block;">28:TONER SAVE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>   |
| 2 9     | CNG count                 | <div style="border: 1px solid black; padding: 2px; display: inline-block;">29:CNG COUNT<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: 1 → 2 → 3 → 4 → 5<br/>↑         </div> <div style="text-align: right; margin-top: 5px;">Note 3</div> |
| 3 0     | 600 DPI FAX TX            | <div style="border: 1px solid black; padding: 2px; display: inline-block;">30:600 DPI FAX TX<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: OFF ⇄ ON         </div>   |
| 3 1     | ISDN DIAL MODE            | <div style="border: 1px solid black; padding: 2px; display: inline-block;">31:ISDN DIAL MODE<br/>[ X ] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle)<br/>X: G3 ⇄ G4         </div> <div style="text-align: right; margin-top: 5px;">Note 4</div>            |

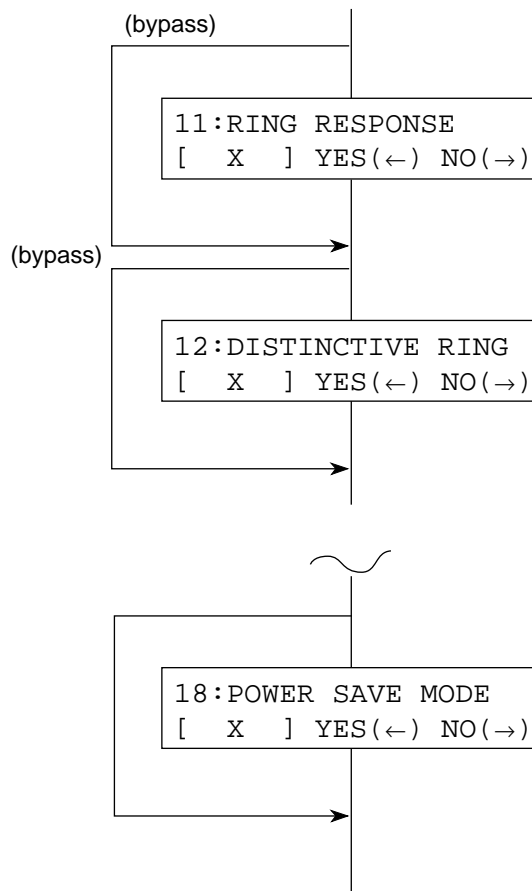
Table 2.10 (4/4) User's Functions

| Tap No. | Name of Function    | The Display Shows  |
|---------|---------------------|--|
| 3 2     | Speech receive      | <div style="border: 1px solid black; padding: 5px; display: inline-block;">           32: SPEECH RECEIVE<br/>           [ X ] YES(←) NO(→)         </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>           Setting (Toggle)<br/>           X: OFF ⇄ ON         </div> <div style="text-align: right;">Note 4</div>               |
| 3 3     | OPTION I/F mode     | <div style="border: 1px solid black; padding: 5px; display: inline-block;">           33: OPTION I/F MODE<br/>           [ X ] YES(←) NO(→)         </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>           Setting (Toggle)<br/>           X: MFPI → SCN. → NET.         </div> <div style="text-align: right;">Note 6</div>    |
| 3 4     | Paper size check    | <div style="border: 1px solid black; padding: 5px; display: inline-block;">           34: PAPER SIZE CHECK<br/>           [ X ] YES(←) NO(→)         </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>           Setting (Toggle)<br/>           X: OFF ⇄ ON         </div> <div style="text-align: right;">Note 7</div>             |
| 3 5     | Print job time out  | <div style="border: 1px solid black; padding: 5px; display: inline-block;">           35: PRINT JOB T.O.<br/>           [ X ] YES(←) NO(→)         </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>           Setting (Toggle)<br/>           X: 5 sec → 30 sec → 5 min         </div> <div style="text-align: right;">Note 7</div> |
| 3 6     | FLATBED TX mode     | <div style="border: 1px solid black; padding: 5px; display: inline-block;">           36: FLATBED TX MODE<br/>           [ X ] YES(←) NO(→)         </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>           Setting (Toggle)<br/>           X: STD ⇄ FINE         </div> <div style="text-align: right;">Note 7</div>            |
| 3 7     | FLATBED TX time out | <div style="border: 1px solid black; padding: 5px; display: inline-block;">           37: FLATBED TX T.O.<br/>           [ X ] YES(←) NO(→)         </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>           Setting (Toggle)<br/>           X: OFF → 30 SEC → 1 MIN         </div> <div style="text-align: right;">Note 7</div>  |
| 3 8     | HALF SIZE SCAN      | <div style="border: 1px solid black; padding: 5px; display: inline-block;">           35: HALF SIZE SCAN<br/>           [ X ] YES(←) NO(→)         </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> →<br/>           Setting (Toggle)<br/>           X: ON ⇄ OFF         </div> <div style="text-align: right;">Note 7</div>               |

**Note 1:** RESOLUTION & ORIGINAL of Tx mode default setting can be selected by using  key.



**2:** When the service bit is set to "off" and the corresponding bit of XPARA of national code is set to "off", Ring response and/or Distinctive ring is bypassed as follows:



- 3:** For G4 option, skip this step.  
This step is valid when Service Bit = ON.
- 4:** Capable of setting when a G4 option is installed.
- 5:** Capable of selecting from up to five countries. However, this is in accordance with the number of languages that are actually installed (max. five countries).
- 6:** Capable of setting only when a 1284 option is installed.
- 7:** Capable of selecting when the Option I/F mode is SCN or NET.

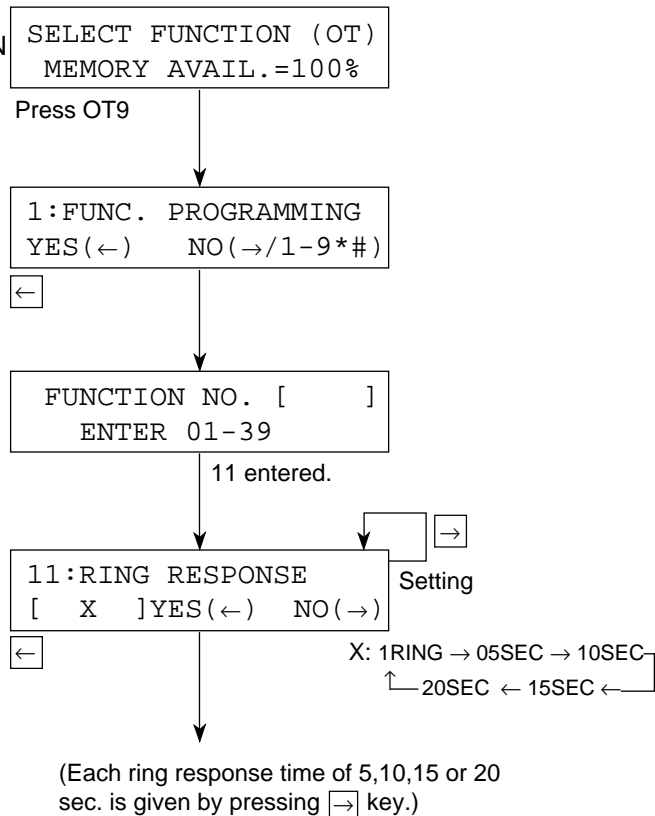
2) Ring response time

Before specifying the ring response time, set the service bit on following the operations shown in 2.2 (1/8). (Service Bit Setting).

**Operations:**

**The display shows:**

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode. (In case of no message in memory)
- Press  key enter using the ten-key pad.
- Enter 11 using the ten-key pad.
- Press  key until the setting you want is displayed, then press  key.



3) Dial parameters (In case the service bit is "OFF".)

To get the "DIAL PARAMETER" message on the display, perform the same operation as Table 2.11.(Dial parameters settings)

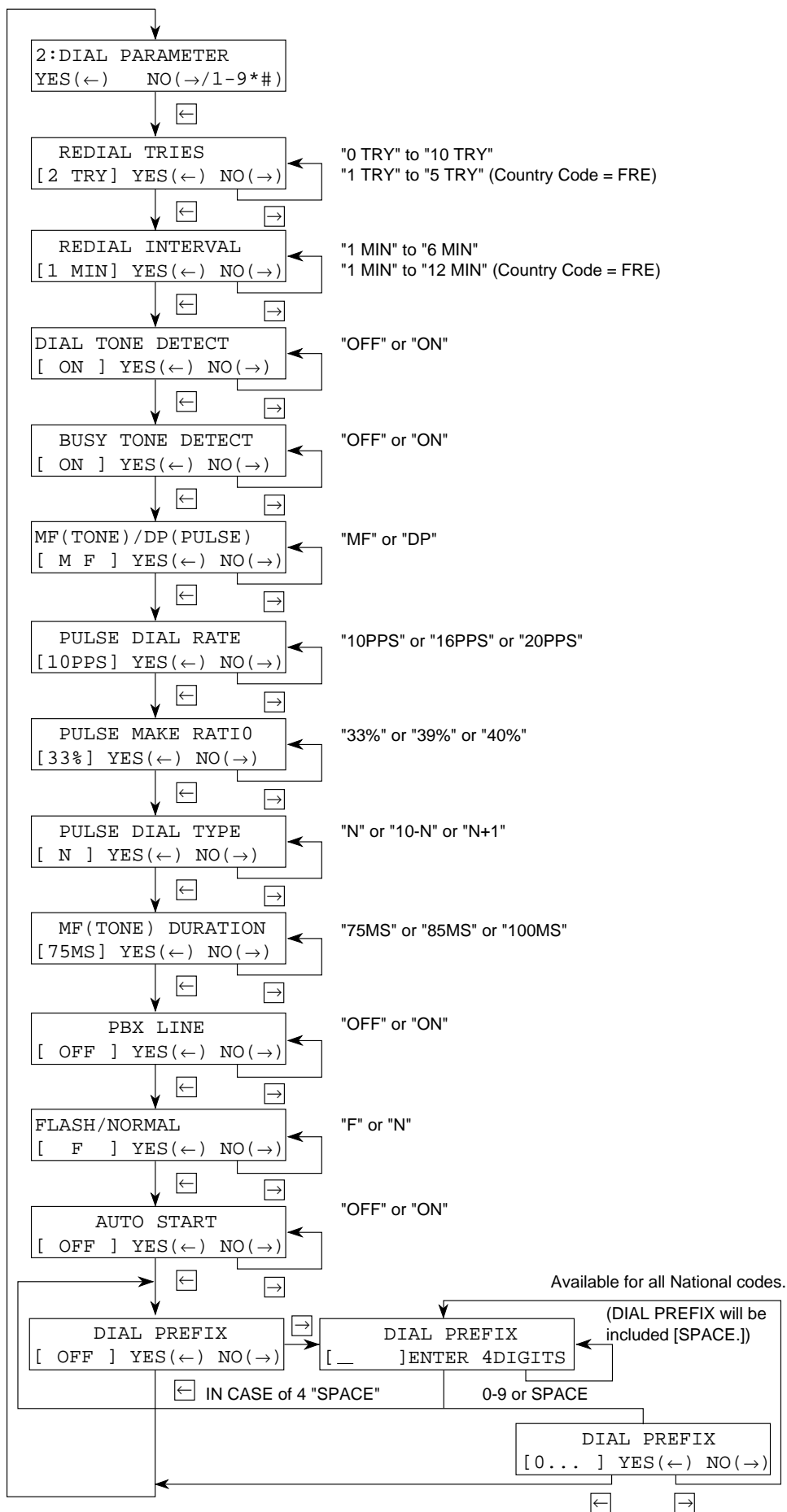




Table 2.11 Dial parameters setting

| NATIONAL CODE        | 1<br>USA | 2<br>INT | 3<br>GBR | 4<br>IRL | 5<br>NOR | 6<br>SWE | 7<br>FIN | 8<br>DEN | 9<br>GER | 10<br>HUN | 11<br>TCH | 12<br>POL |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| Redial tries         | 1        | 1        | 0        | 0        | 1        | 1        | 1        | 0        | 1        | 1         | 1         | 1         |
| Redial interval      | 1        | 1        | 0        | 0        | 1        | 1        | 1        | 0        | 1        | 1         | 1         | 1         |
| Dial tone detect     | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         |
| Busy tone detect     | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0         | 0         | 0         |
| MF (tone)/DP (pulse) | 1        | 1        | 0        | 1        | 0        | 0        | 1        | 1        | 1        | 1         | 1         | 1         |
| Pulse dial rate      | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         |
| Pulse make ratio     | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         |
| Pulse dial type      | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         |
| MF (tone) duration   | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         |
| PBX line             | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1         | 1         | 1         |
| Flash/Normal         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         |
| Auto start           | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1         | 1         | 1         |
| Dial prefix          | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1         | 1         | 1         |

| NATIONAL CODE        | 13<br>SUI | 14<br>AUT | 15<br>BEL | 16<br>HOL | 17<br>FRE | 18<br>POR | 19<br>ESP | 20<br>ITA | 21<br>GRE | 22<br>AUS | 23<br>NZL | 24<br>SIN | 25<br>HNG | 26<br>LTA | 27<br>MEX | 28<br>CHN | 29<br>RUS | 30<br>TWN |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Redial tries         | 1         | 1         | 0         | 1         | 0         | 0         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 1         | 1         | 1         | 1         | 1         |
| Redial interval      | 1         | 1         | 1         | 1         | 0         | 0         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 1         | 1         | 1         | 1         | 0         |
| Dial tone detect     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 1         | 1         | 0         | 1         |
| Busy tone detect     | 1         | 1         | 0         | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 1         | 1         | 1         | 0         | 1         |
| MF (tone)/DP (pulse) | 1         | 1         | 1         | 0         | 1         | 1         | 1         | 1         | 1         | 1         | 0         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| Pulse dial rate      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| Pulse make ratio     | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| Pulse dial type      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| MF (tone) duration   | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| PBX line             | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0         | 0         | 0         | 0         | 0         | 1         | 1         | 1         | 1         | 1         |
| Flash/Normal         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| Auto start           | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| Dial prefix          | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |

1: Capable of user operation.

0: User operation disabled.

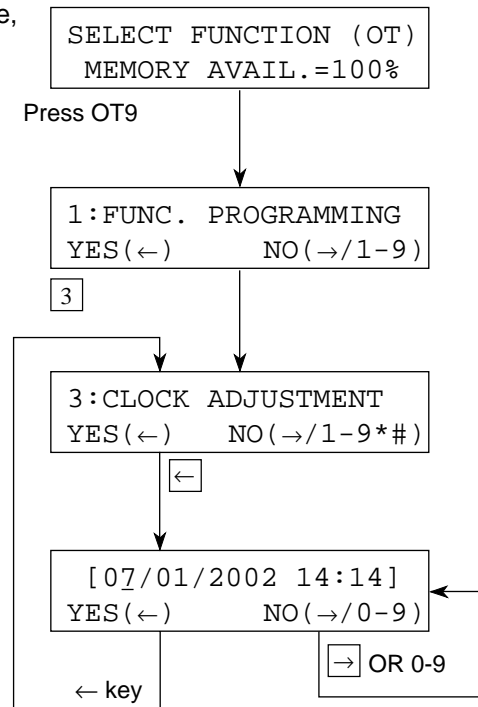
(Capable of operating by having a service person setting service bit to ON.)

### 2.2.1.6 Clock Adjustment

#### Operations:

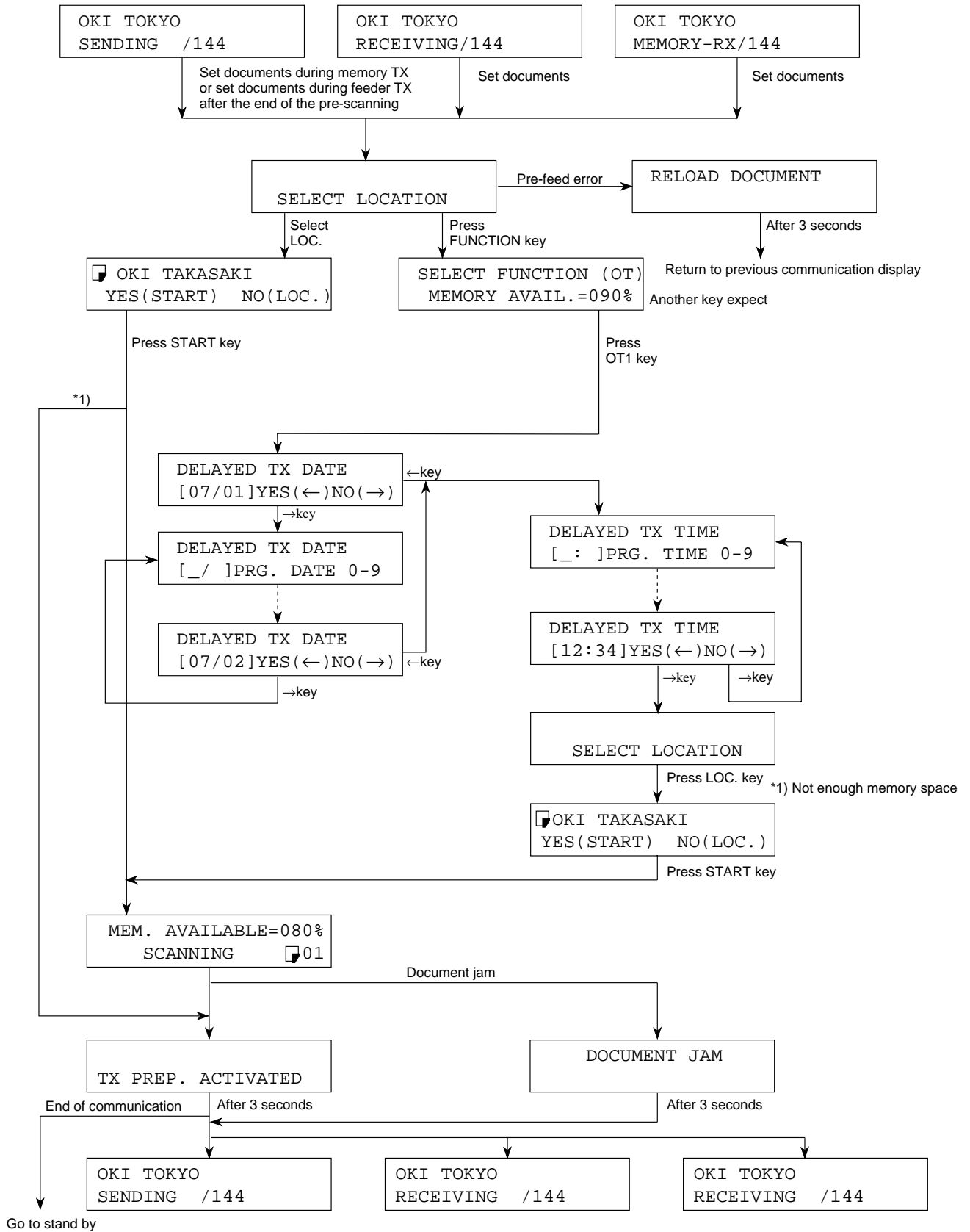
- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode. (In case of no message in memory)
- Enter 3 using the ten-key pad.
- Press  key.
- Enter date and time by using the ten-key pad (0 to 9, \*, # keys).

#### The display shows:



**Note:** Data outside 1996 to 2095 cannot be registered.

### 2.2.1.7 Dual Access Operation



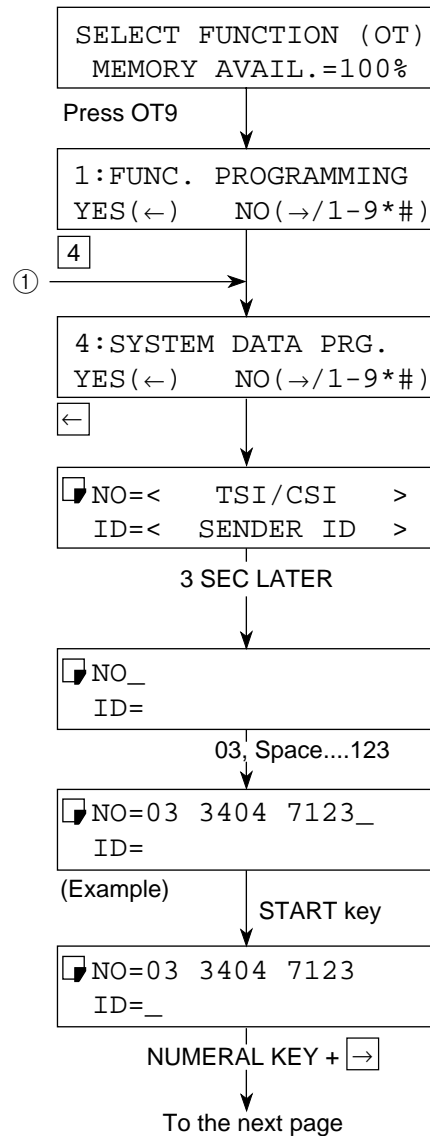
### 2.2.1.8 System Data Programming

- TSI/CSI (Default: Blank)
- Registration of sender ID (Default: Blank)
- Registration of telephone number for the call-back message (Default: Blank)

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode.  
(In case of no message in memory)
- Enter 4 using the ten-key pad.
- Press  key.

#### The display shows:



- Note 1:** Use the UNIQUE key to input special symbols.  
**Note 2:** When 16 digits or more is registered, the high-order 16 digits are displayed (TSI, CSI, ID or CBM)

**Operations:**

- Press **START** key.

- Press **START** key.

**The display shows:**

Continued from the previous page.

NO=03 3404 7123  
ID=OKI

(Example)

**START**

NO=<CALL BACK NO.>

3 SEC LATER

NO=\_

03.....5

NO=03 3404 7765\_

(Example)

**START**

①

## 2.2.1.9 Dial Parameters Settings

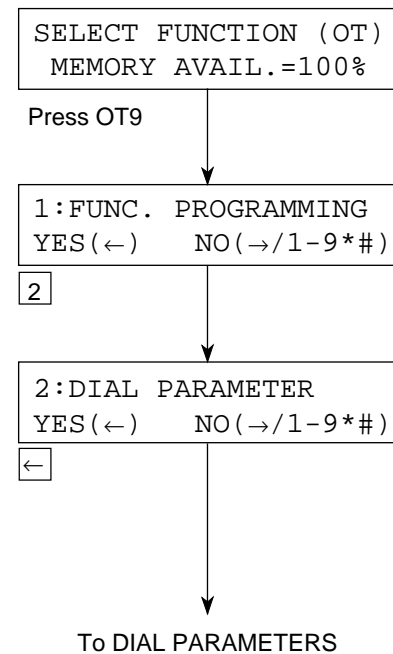
### (1) Procedure

The following shows the case in which the service bit is on.

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode. (In case of no message in memory)
- Enter 2 using the ten-key pad.
- Press  key.

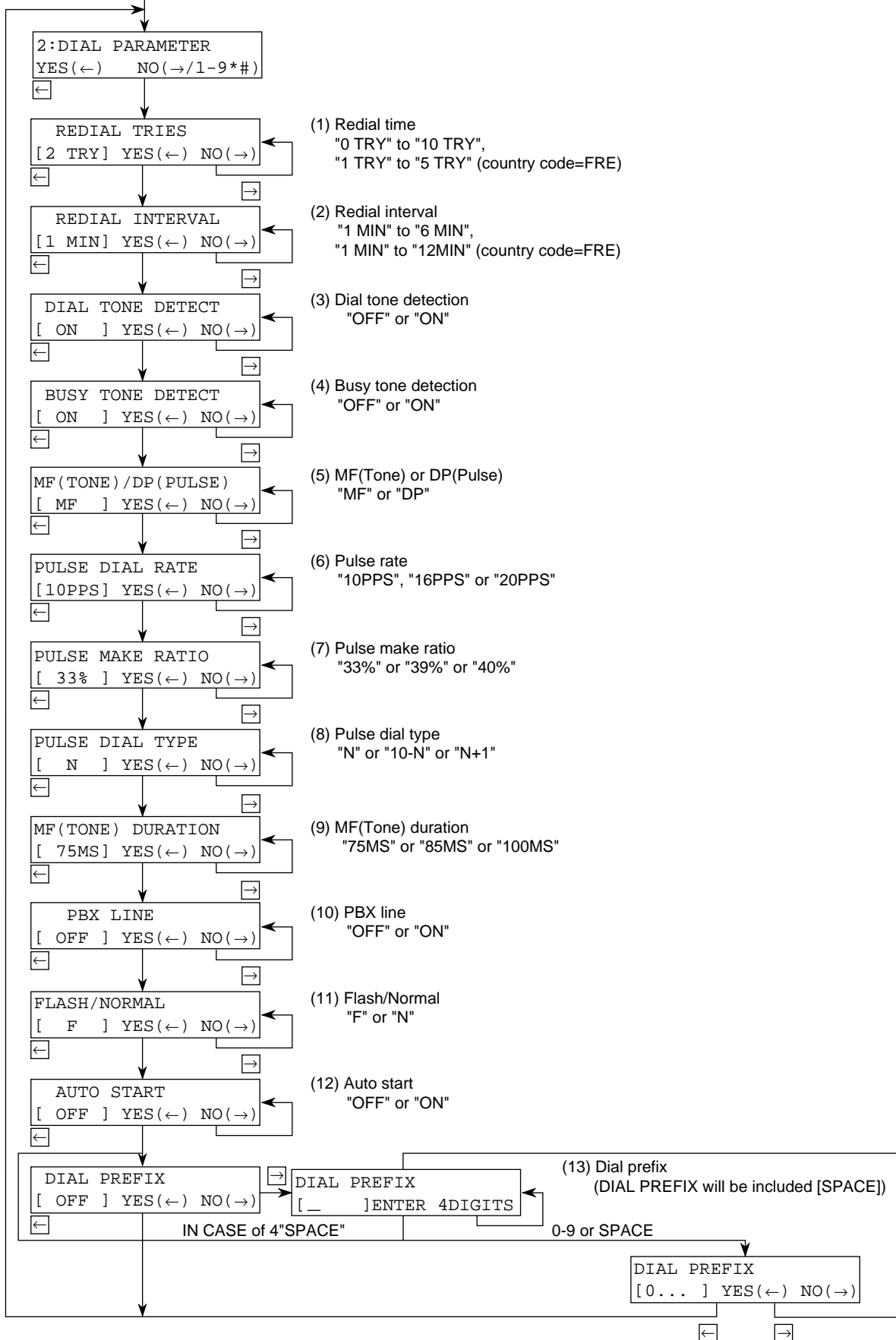
#### The display shows:



\*1 Not all of the following dial parameters are released to the users (depending on National codes and if the Service bit is OFF)

**The display shows:**

Continued from the previous page.



| No. | User Setting Items   | Setting Selection        | COUNTRY CODE |           |          |          |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |     |     |    |
|-----|----------------------|--------------------------|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|----|
|     |                      |                          | 1<br>USA     | 2<br>INTL | 3<br>GBR | 4<br>IRL | 5<br>NOR | 6<br>SWE | 7<br>FIN | 8<br>DEN | 9<br>GER | 10<br>HUN | 11<br>TCH | 12<br>POL | 13<br>SUI | 14<br>AUT | 15<br>BEL | 16<br>HOL | 17<br>FRE | 18<br>POR | 19<br>ESP | 20<br>ITA | 21<br>GRE | 22<br>AUS | 23<br>NZL | 24<br>SIN | 25<br>HNG | 26<br>LTA | 27<br>MEX | 28<br>CHN | 29<br>RUS | 30<br>TWN |     |     |    |
| 1   | REDIAL TRIES         | 0 - 10 TRIES             | 1            | 3         | 2        | 2        | 5        | 10       | 3        | 5        | 10       | 10        | 2         | 2         | 10        | 10        | 3         | 2         | 2         | 2         | 2         | 2         | 2         | 3         | 2         | 5         | 2         | 3         | 3         | 3         | 3         | 2         |     |     |    |
| 2   | REDIAL INTERVAL      | 1 - 6 min                | 3            | 3         | 3        | 3        | 3        | 1        | 3        | 3        | 1        | 3         | 3         | 1         | 1         | 3         | 3         | 3         | 6         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3   |     |    |
| 3   | DIAL TONE DETECT     | ON/OFF                   | OFF          | ON        | OFF      | OFF      | OFF      | OFF      | OFF      | OFF      | ON       | ON        | ON        | ON        | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | ON        | ON        | ON        | ON        | ON        | OFF       | OFF       | OFF       | ON        | OFF |     |    |
| 4   | BUSY TONE DETECT     | ON/OFF                   | ON           | ON        | ON       | ON       | ON       | ON       | ON       | ON       | OFF      | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON  | ON  |    |
| 5   | MF (TONE)/DP (PULSE) | DP/MF                    | MF           | MF        | MF       | MF       | MF       | MF       | MF       | MF       | DP       | MF        | DP        | MF        | MF        | MF        | MF        | MF        | MF        | DP        | MF        | MF        | MF        | MF        | MF        | MF        | MF        | MF        | MF        | MF        | MF        | MF        | MF  |     |    |
| 6   | PULSE DIAL RATE      | 10 PPS/16 PPS/<br>20 PPS | 10           | 10        | 10       | 10       | 10       | 10       | 10       | 10       | 10       | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10  | 10  |    |
| 7   | PULSE MAKE RATIO     | 33%/39%/40%              | 39%          | 33%       | 33%      | 33%      | 33%      | 40%      | 33%      | 39%      | 33%      | 39%       | 39%       | 33%       | 40%       | 33%       | 33%       | 39%       | 33%       | 33%       | 33%       | 39%       | 33%       | 33%       | 33%       | 33%       | 39%       | 39%       | 39%       | 33%       | 33%       | 33%       | 33% | 33% |    |
| 8   | PULSE DIAL TYPE      | N/10-N/N+1               | N            | N         | N        | N        | N        | N        | N        | N        | N        | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N   | N   |    |
| 9   | MF (TONE) DURATION   | 75 ms/85 ms/100 ms       | 100          | 85        | 85       | 85       | 85       | 85       | 100      | 100      | 100      | 100       | 100       | 100       | 85        | 85        | 85        | 100       | 85        | 85        | 85        | 85        | 100       | 85        | 85        | 85        | 85        | 100       | 100       | 100       | 85        | 85        | 85  | 100 |    |
| 10  | PBX LINE             | ON/OFF                   | OFF          | OFF       | OFF      | OFF      | OFF      | OFF      | OFF      | OFF      | OFF      | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF | OFF |    |
| 11  | FLASH/NORMAL         | NORMAL/FLASH             | N            | N         | N        | N        | N        | FLASH    | N        | N        | N        | N         | N         | N         | FLASH     | FLASH     | N         | N         | FLASH     | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N         | N   | N   |    |
| 12  | AUTO START           | ON/OFF                   | ON           | OFF       | OFF      | ON       | ON       | ON       | ON       | ON       | ON       | OFF       | OFF       | ON        | ON        | ON        | OFF       | OFF       | OFF       | ON        | ON        | ON        | OFF       | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON        | ON  | ON  | ON |
| 13  | DIAL PREFIX          | OFF/(max. 4 digits)      | OFF          | OFF       | OFF      | OFF      | OFF      | 0...     | OFF      | OFF      | OFF      | OFF       | OFF       | 0...      | 0...      | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF       | OFF | OFF |    |

Table 2.12 Default Settings of Dial Parameters



Table 2.13 Dial Parameters Settings

| No. | Item                                   | Specifications  |
|-----|--|---|
| 01  | <b>Dial parameters</b><br>Redial tries | Switches on the re-dial times to meet the regulations of the installed country. 0 to 10 tries (in one-try steps)<br>1 to 5 tries for FRE.               |
| 02  | Redial interval                        | Switches on the re-dial intervals to meet the regulations of installed country. 1 to 6 minutes (in one-minute steps)<br>1 to 12 minutes for FRE.        |
| 03  | Dial tone detect                       | Selects the dial tone detection.<br>ON/OFF selectable.<br>ON: Enable<br>OFF: Disable  |
| 04  | Busy tone detect                       | Selects the busy tone detection.<br>ON/OFF selectable.<br>ON: Enable<br>OFF: Disable  |
| 05  | MF (TONE) or DP (Pulse)                | Selects dialling by multi-frequency or dial pulse.  |
| 06  | Pulse dial rate                        | Selects the dialling pulse rates for the line.<br>10 pps/16 pps/20 pps selectable.  |
| 07  | Pulse make ratio                       | Selects pulse dial rate.<br>33%/39%/40%   |
| 08  | Pulse dial type                        | Selects pulse dial type.<br>Normal(N)/10-N/N+1  |
| 09  | MF (Tone) duration                     | Selects MF (Tone) duration.<br>75/85/100 ms selectable.   |
| 10  | PBX line                               | Selects PBX line.<br>ON/OFF selectable.<br>ON: PBX line<br>OFF: PSTN  |
| 11  | Flash/Normal                           | Selects the PBX type to meet the exchange requirements.<br>NORMAL/FLASH selectable.<br>(PBX line origination types)                                     |
| 12  | Auto start                             | Enables or disables the function of dialing without pressing the START key in one-touch dial and 3-digit auto dial modes.<br>ON: Enable<br>OFF: Disable |
| 13  | DIAL PREFIX                            | Prefix dialing digits with which PBX connects the fax to the public line.<br>OFF/max. 4digit(s) selectable.<br>Digit: Enable<br>OFF: Disable            |

## 2.2.1.10 Off-line Tests

### (1) Purpose

Activate self-diagnosis which includes:

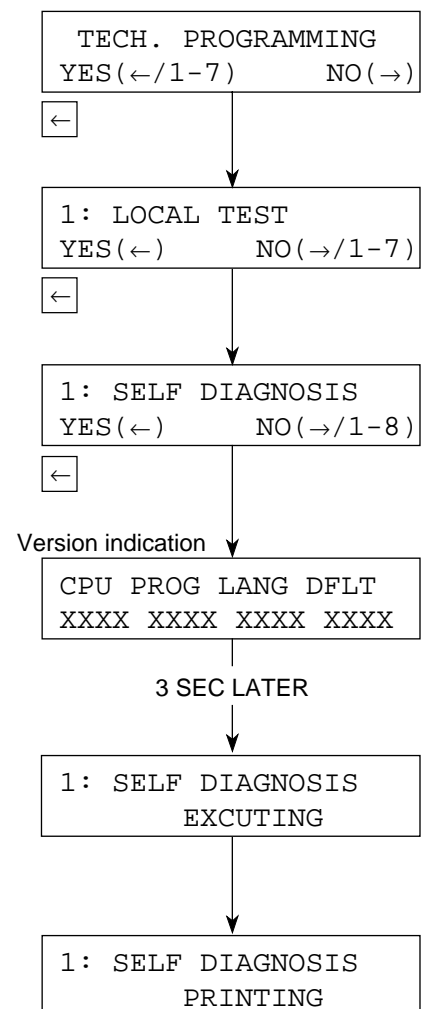
- Print test
- CPU-ROM version printing
- CPU-RAM check
- PROG version printing
- LANGUAGE version printing
- DEFAULT version printing
- RAM check
- RAM check (memory board: optional)
- Data of each option board.

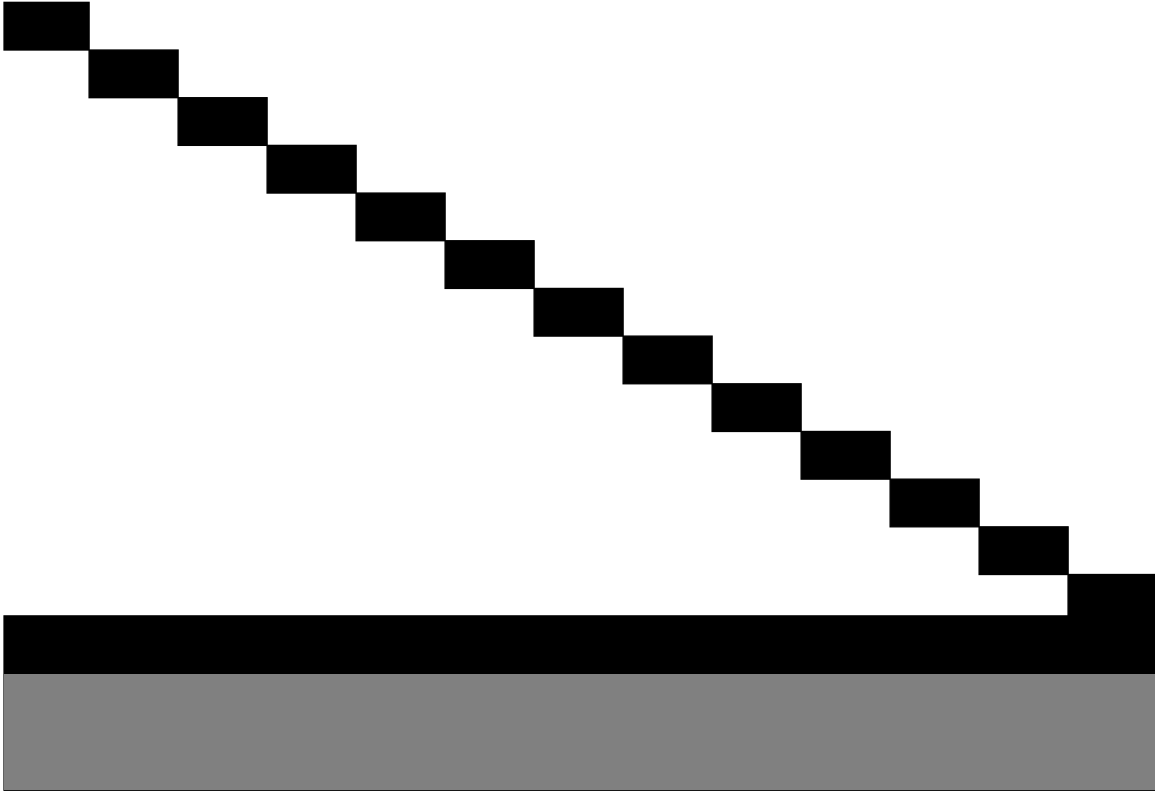
### (2) Procedure

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in memory)
- Press  key.
- Press  key.
- Press  key for cheking and test printing. (An example of printed data is shown in Figure 2.7)

#### The display shows:





```

CPU-ROM  VERSION  aaaa
          HASH    OK   hhhh
CPU-RAM
PROGRAM  VERSION  aaaa
          HASH    OK   hhhh
LANGUAGE VERSION  aaaa
          HASH    OK   hhhh
DEFAULT  VERSION  aaaa
          HASH    OK   hhhh
RAM1
RAM2
DEFAULT TYPE  01   03/03/2002  12:00
MODEM        VERSION  hhhh
1284 BOARD
DEVICE ID
          MFG:OKI DATA CORP;
          MDL:OKIFAX 4580;
          DES:OKI OKIFAX 4580;
OPT-RAM  4M      OK
ISDN BOARD
CPU-ROM  VERSION  aaaa
          HASH    OK   hhhh
CPU-RAM
PROGRAM  VERSION  aaaa
          HASH    OK   hhhh
RAM      2M      OK
DPRAM   2K      OK
    
```

a: Alphabet and digit  
h: Hexadecimal numeral  
n: Digit

Figure 2.7 Printed Data of Self-diagnosis Print Test (Example)

## 2.2.1.11 On-line Tests

### 1. Transmission

- (1) Load documents
- (2) Make sure that
  - The loaded documents are fed in automatically.
  - The STD and NORMAL lamps light.
  - The display shows SELECT LOCATION.
- (3) Dial the telephone number of the remote machine by the ten-key pad.
- (4) Make sure that the telephone number of the remote machine is shown on the display.
- (5) Press the START button.
- (6) Typical message transmission flow is described in Figure 2.8.

### 2. Reception

- (1) Use another machine for dialling.
- (2) Make sure that
  - The display shows AUTO REC. START.
  - The message is automatically received.
- (3) Typical message reception flow is described in Figure 2.9.

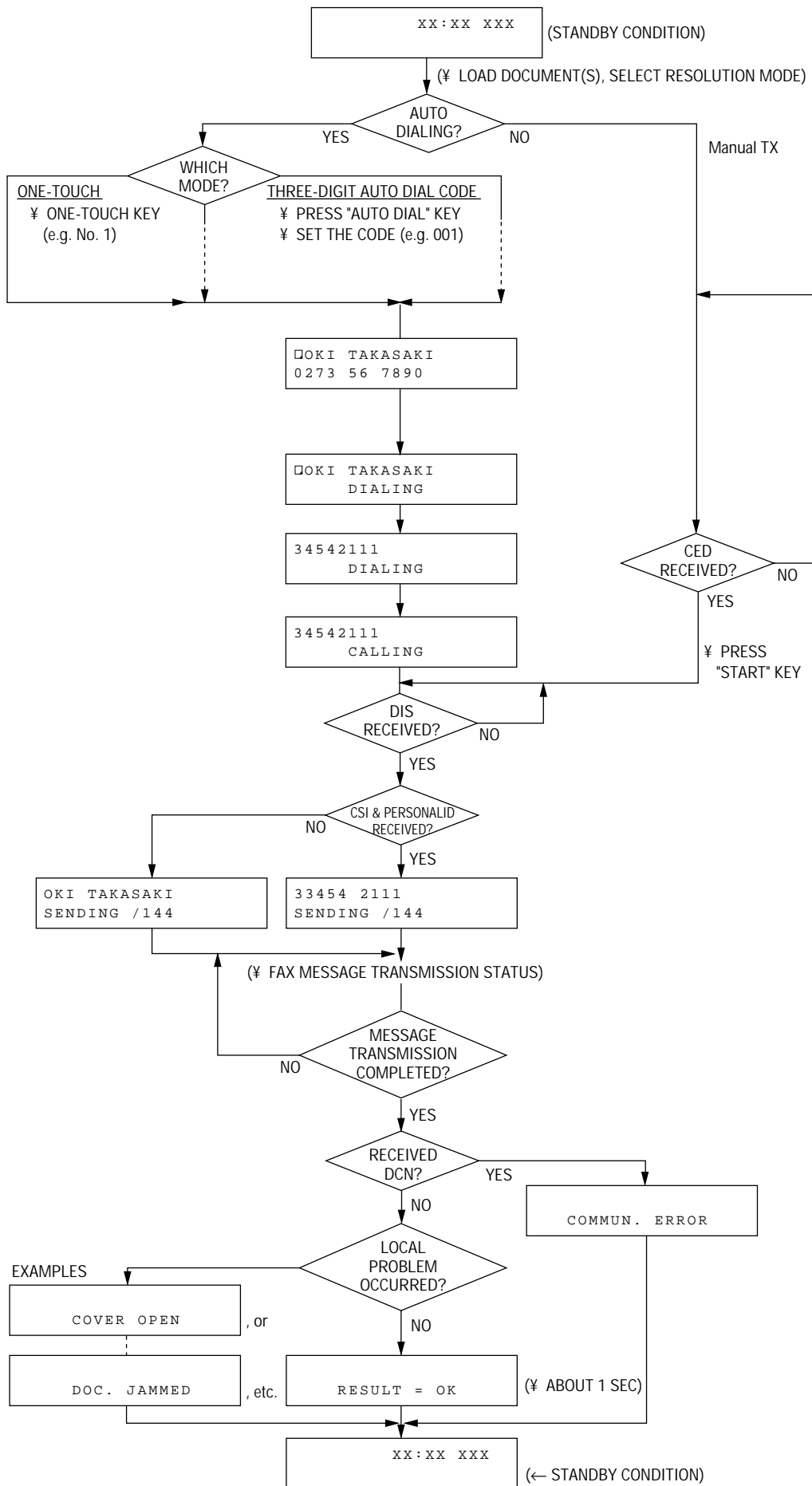


Figure 2.8 Typical Transmission Flow

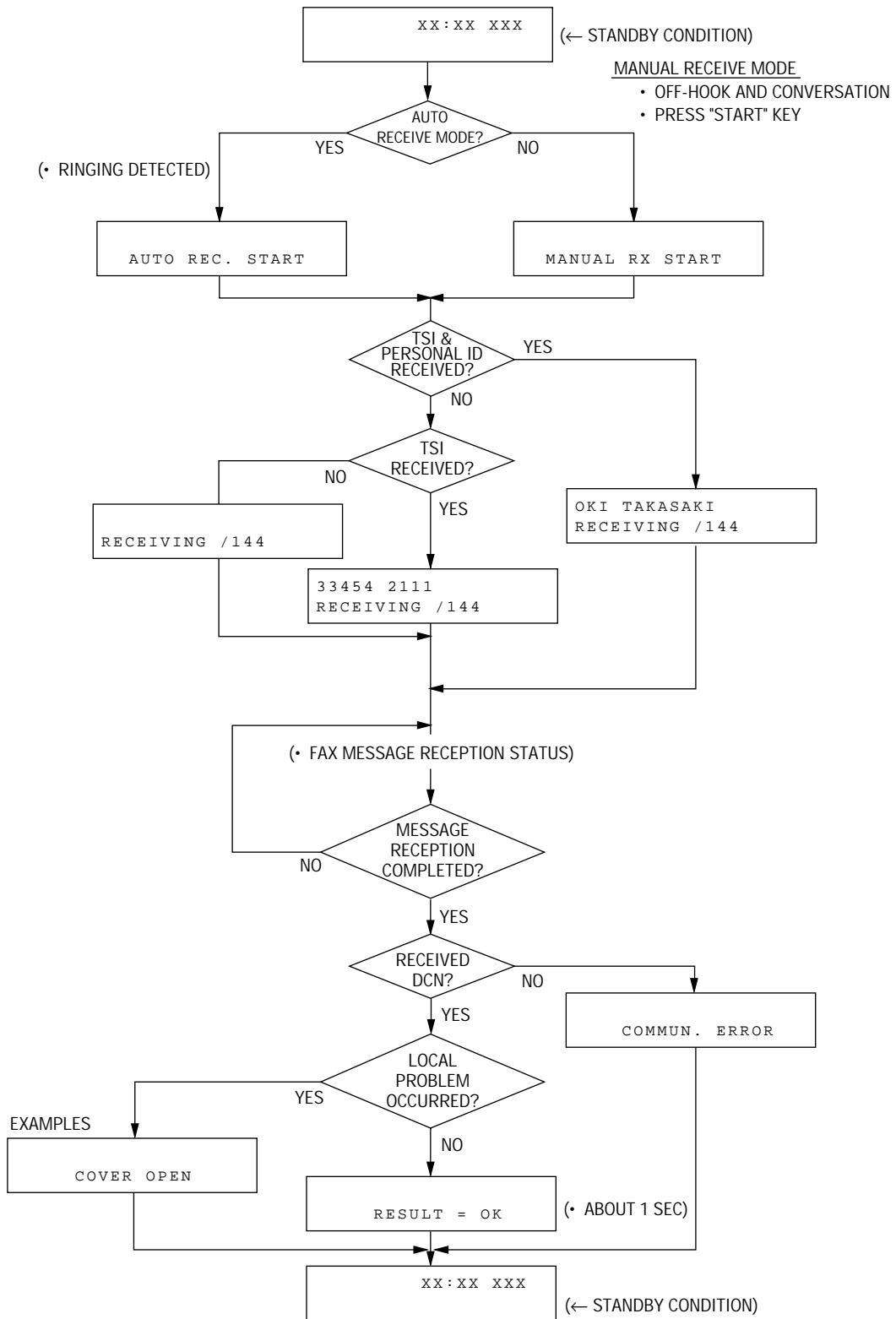


Figure 2.9 Typical Reception Flow

### 3. BRIEF TECHNICAL DESCRIPTION

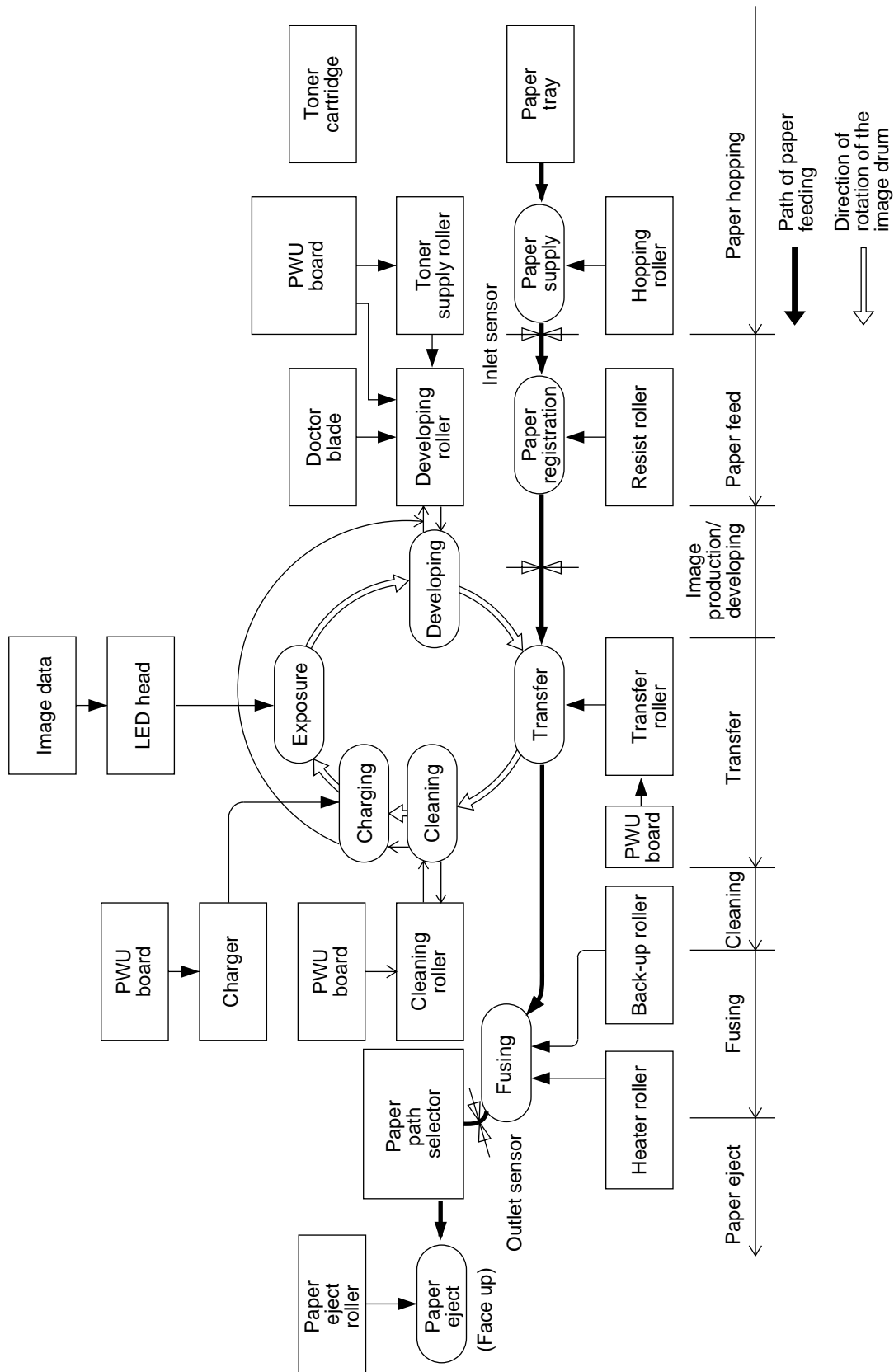


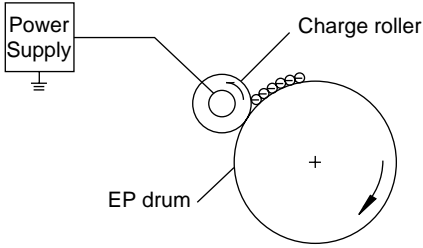
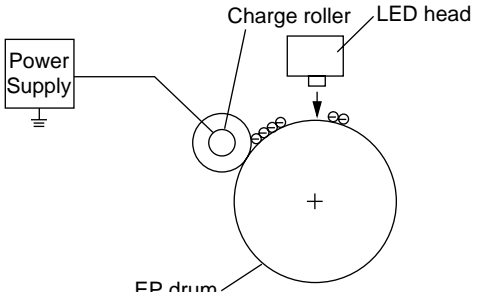
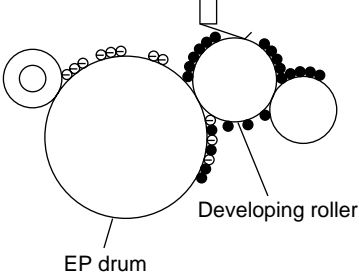
Figure 3.1 Electro-photographic Process Flow

### 3.1 Fundamentals of the Electro-Photographic Process

The electro-photographic process involves six sub-processes:

- (1) Charging
- (2) Exposure
- (3) Development
- (4) Transfer
- (5) Fusing
- (6) Cleaning

Outline of each process is explained below.

| Process   | Illustration  | Description  |
|---|---|--|
| <p style="text-align: center;">1</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Charging</p>    |    | <p>The surface of the electro-photographic Image drum is uniformly charged with negative charges by applying a negative voltage to the charge roller.</p> <p>When the applied DC voltage exceeds a threshold value, charging of the drum begins.</p>   |
| <p style="text-align: center;">2</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Exposure</p>    |  | <p>Light emitted from the LED head irradiates the negatively charged surface.</p> <p>The potential of the irradiated part of the Image drum surface is raised, so that an electrostatic latent image associated with the print image is formed.</p>  |
| <p style="text-align: center;">3</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Development</p> |  | <p>Toner is attracted to the exposed part (high-potential part) of the Image drum at the contact between the Image drum and the developing roller, making the electrostatic latent image visible.</p> <p>At the same time, the residual toner on the Image drum is attracted to the developing roller by static electricity.</p> |

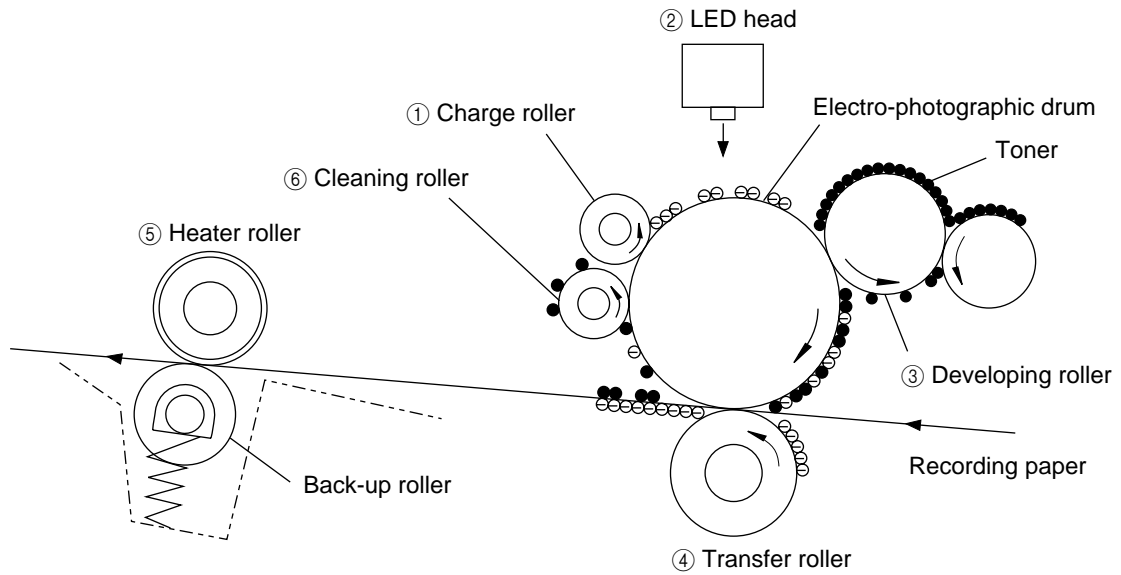


| Process                  | Illustration | Description   |
|--------------------------|--------------|---|
| <p>4</p> <p>Transfer</p> |              | <p>The recording paper is placed over the Image drum surface and a positive charge, opposite in polarity to the toner, is applied to the reverse side of the paper from the transfer roller. The toner is attracted by the positive charge and is transferred to the paper. The toner charged negative that is attracted to the Image drum surface is transferred to the upper side of the recording paper by the positive charge on the lower side of the paper.</p> |
| <p>5</p> <p>Fusing</p>   |              | <p>The unfused toner image is fused on the paper under heat and pressure as it passes between the heater roller and the back-up roller.</p>   |
| <p>6</p> <p>Cleaning</p> |              | <p>Residual toner on the Image drum is attracted to the cleaning roller temporarily by static electricity on the Image drum surface.</p>  |

### 3.2 Actual Electro-photographic Process

The electro-photographic process consists of six essential processes.

The following Figure 3.2 provides a general description.



\* Process:

- ① : Charging
- ② : Exposure
- ③ : Developing
- ④ : Transfer
- ⑤ : Fusing
- ⑥ : Cleaning

**Figure 3.2 Actual EP Process**

### 3.3 Boards and Units

#### 3.3.1 Boards and Units

The following one board, Main control board and three units constitute the facsimile transceiver machine.

- Main control board MCNT: (V46)
- Network control unit board NCU: (INU/EN9/EN2)
- Operation panel assembly unit OPE: (O4W)
- Power supply unit POW UNIT: (MPW1446; 230V/MPW1546; 120V, P2H, P6L)
- G4 option board G4N
- Printer unit

Figure 3.3 shows the related drawing of the facsimile transceiver.

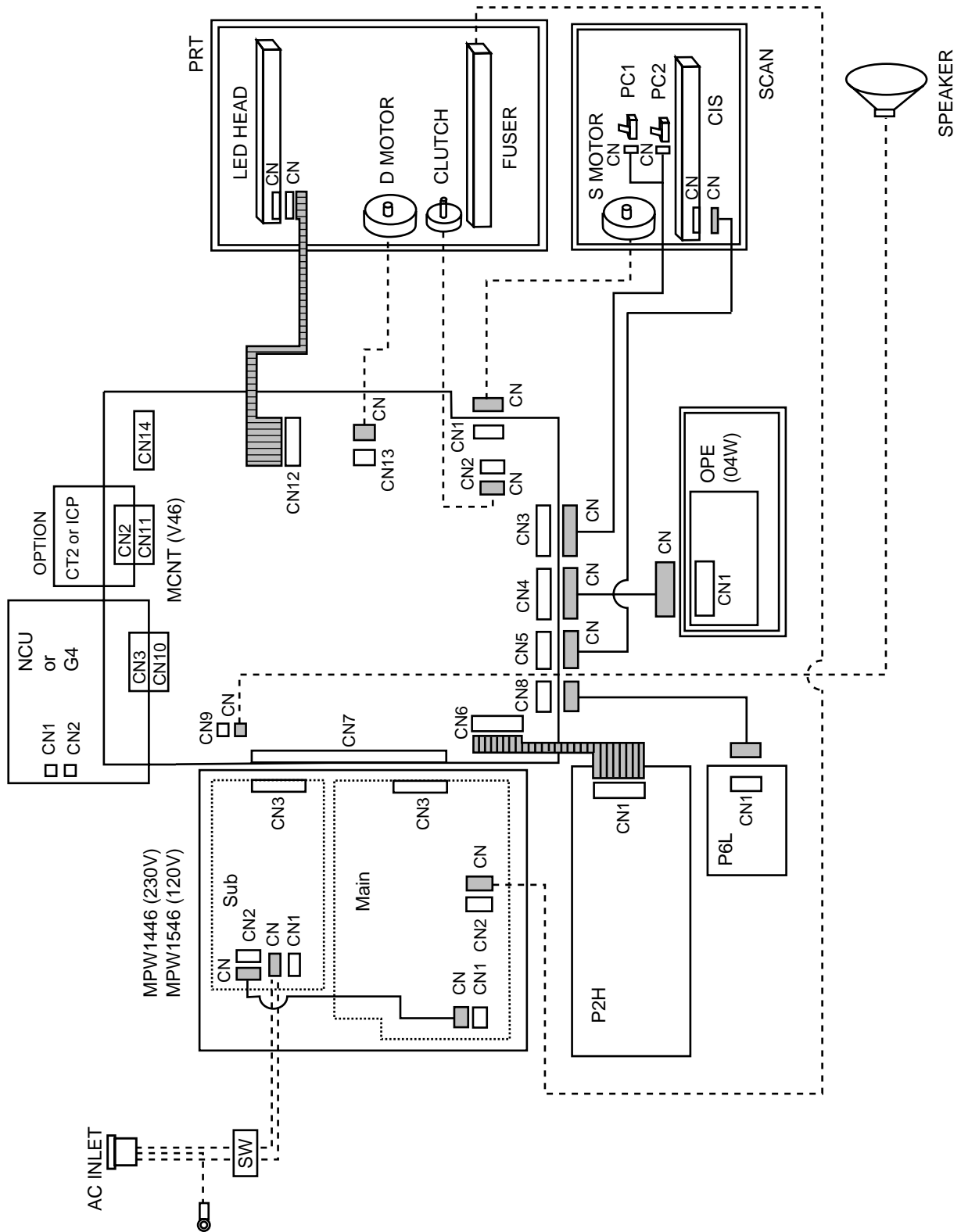


Figure 3.3 Related Drawing

3.4 Overall Dimension and Mechanical Structure of OKIFAX 4580

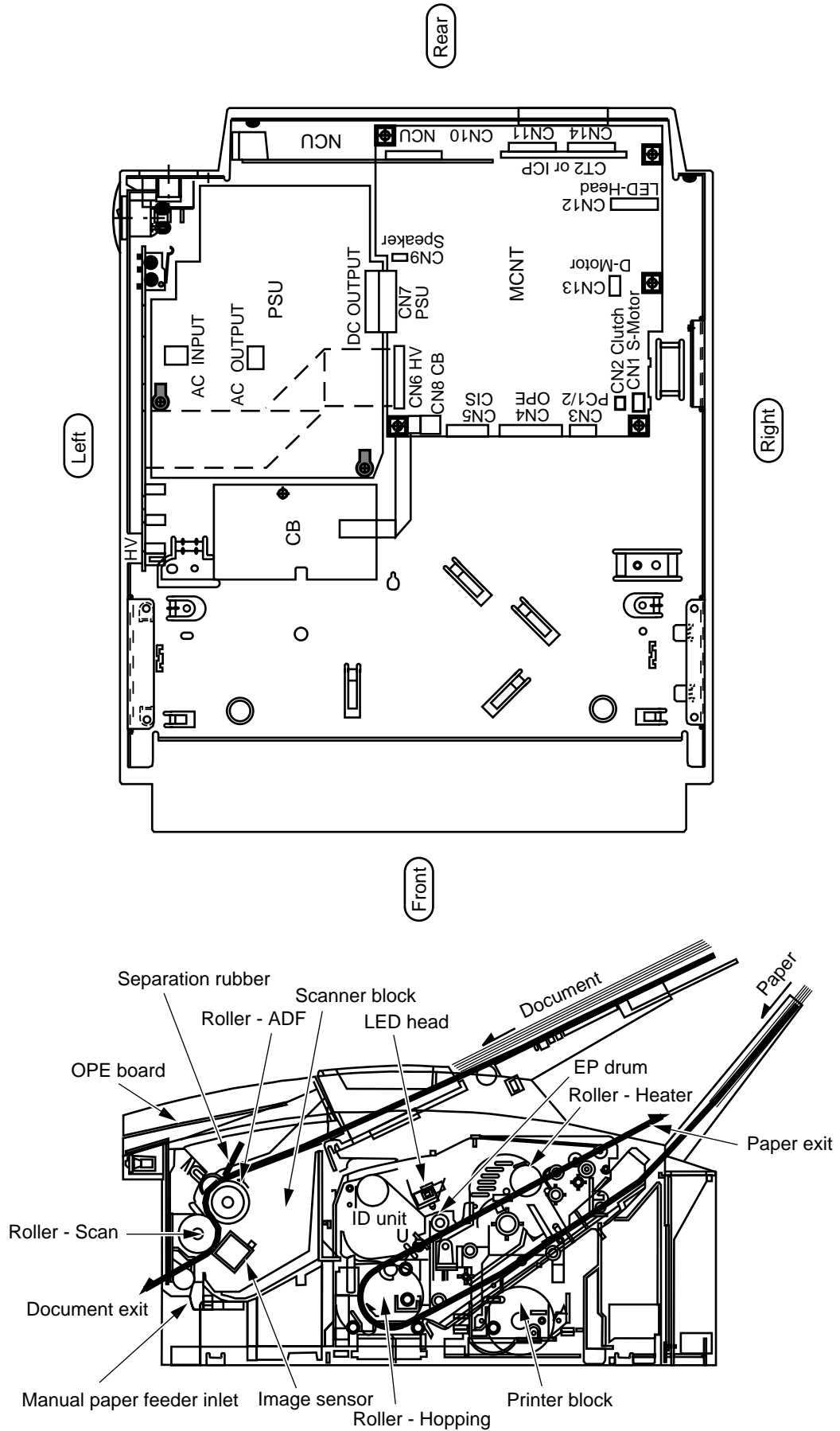


Figure 3.4 Overall Dimension and Mechanical Structure

## 4. MECHANICAL DISASSEMBLY AND REASSEMBLY

### General

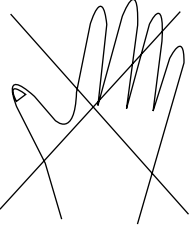
The section explains the procedures for replacement of parts, assemblies, and units in the field. Only the disassembly procedures are explained here. For reassembly, reverse the disassembly procedure.

### 4.1 Precautions for Parts Replacement

DANGER

**Do Not Touch !**

HIGH VOLTAGE



You may be subjected to high-voltage electric shock by touching the following parts without an insulating material:

|                      |          |
|----------------------|----------|
| a. High-voltage unit | PC board |
| b. Low-voltage       | PC board |
| c. Contact ass'y     |          |
| d. Power supply unit |          |

\* The high voltage risk may continue for about 3 days after power-off.  
\* Never touch the power supply unit pattern.

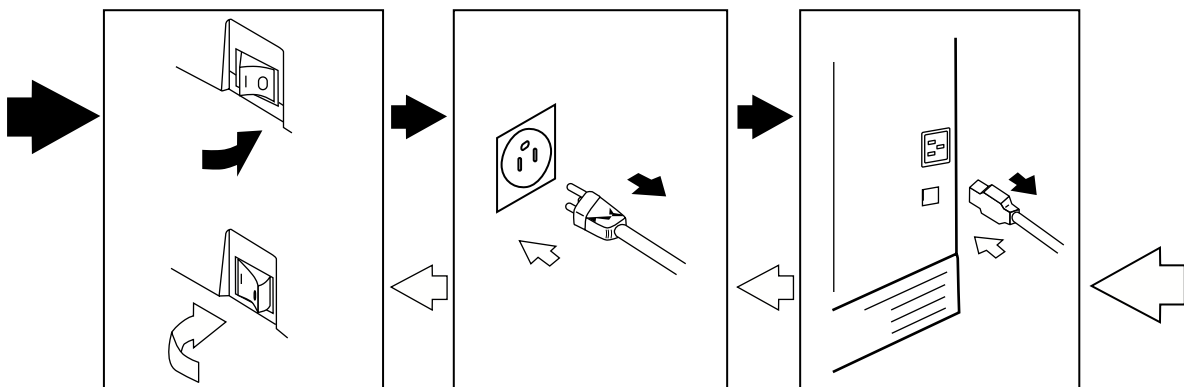
(1) Before starting to replace parts, remove the AC cord.

(a) Remove the AC cord in the following sequence:

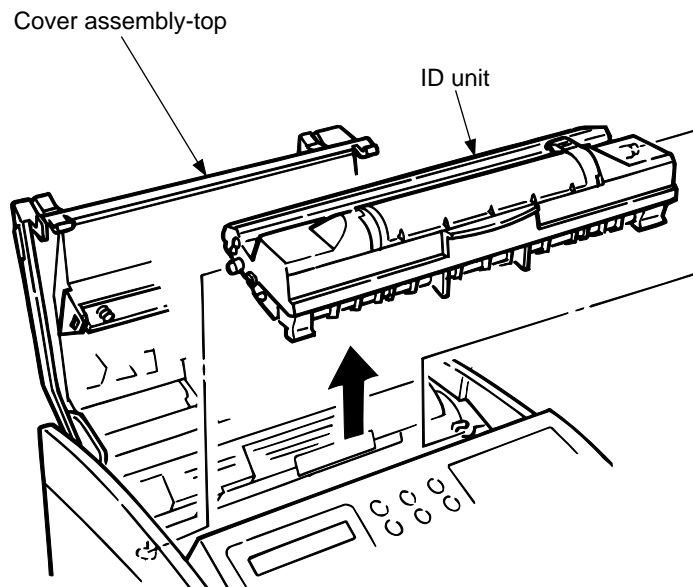
1. Turn off ("o") the power switch of the machine.
2. Disconnect the AC inlet plug of the AC cord from the AC receptacle.
3. Disconnect the line cable from the machine.

(b) Reconnect the machine in the following procedure:

1. Connect the AC cord and line cable to the machine.
2. Connect the AC inlet plug to the AC receptacle.
3. Turn on ("I") the power switch of the machine.



- (2) Do not try to disassemble as long as the facsimile is operating normally.
- (3) Do not remove unnecessary parts: Try to keep disassembly to a minimum.
- (4) When disassembling, follow the prescribed sequence. Otherwise, parts may be damaged.
- (5) Since screws and small parts are likely to be lost, they should temporarily be attached to their original positions.
- (6) When handling items such as printed circuit boards, do not wear gloves that are likely to generate static electricity.
- (7) Using a wrist band connected to the ground will protect semiconductors on printed circuit boards from damage by the static electricity.
- (8) Do not place printed circuit boards directly on the equipment or on the floor.
- (9) Remove the I/D unit (image drum unit)
  - Open the cover assembly-top by raising, then take out the I/D unit from the equipment.



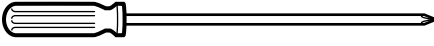
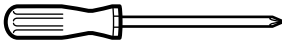
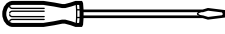

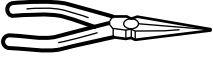

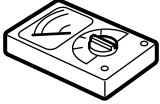
**Caution:** Do not expose the I/D unit to direct sunlight. To protect the I/D unit against room lights, cover it with A4-size paper or the like.

| <u>Board or Part</u>   | <u>Adjustment</u>   |
|--|---|
| (a) NCU board  | DIP switches to be placed in the same position as on the removed board. Refer to Chapter 8.   |
| <b>Note:</b> The DIP switches setting is subject to change by PTT parameters.<br>EN9/EN2 and INU board (Except for USA/Canada version) |   |
| (b) LED print head   | When the rank marking of the replaced LED print head (new part) is the same as that of the used LED print head (old part), you do not always have to set the LED print head strobe time by the technical function No. 26. (Refer to Chapter 5). |

## 4.2 Tools

Table 4.1 shows the tools required for the replacement of parts such as circuit boards and mechanical units.

**Table 4.1 Tools**

| No. | Service tools   | Q'ty                     | Remarks |                    |
|-----|---|--------------------------|---------|--------------------|
| 1   |    | Philips screw driver (L) | 1       |                    |
| 2   |    | Philips screw driver (M) | 1       |                    |
| 3   |    | Flat screw drivers (S)   | 1       |                    |
| 4   |    | Philips screw driver (S) | 1       |                    |
| 5   |    | Radio pliers             | 1       |                    |
| 6   |  | Nippers                  | 1       |                    |
| 7   |  | Multimeter               | 1       | Short-ciucuit test |

## 4.3 How to Disassemble and Reassemble

This section explains how to disassemble and reassemble the fax.

- Figure 4.1 shows the disassembly procedure flow as generalization.
- The detailed disassembly procedure is explained from sub-section 4.3.1 to 4.3.18.



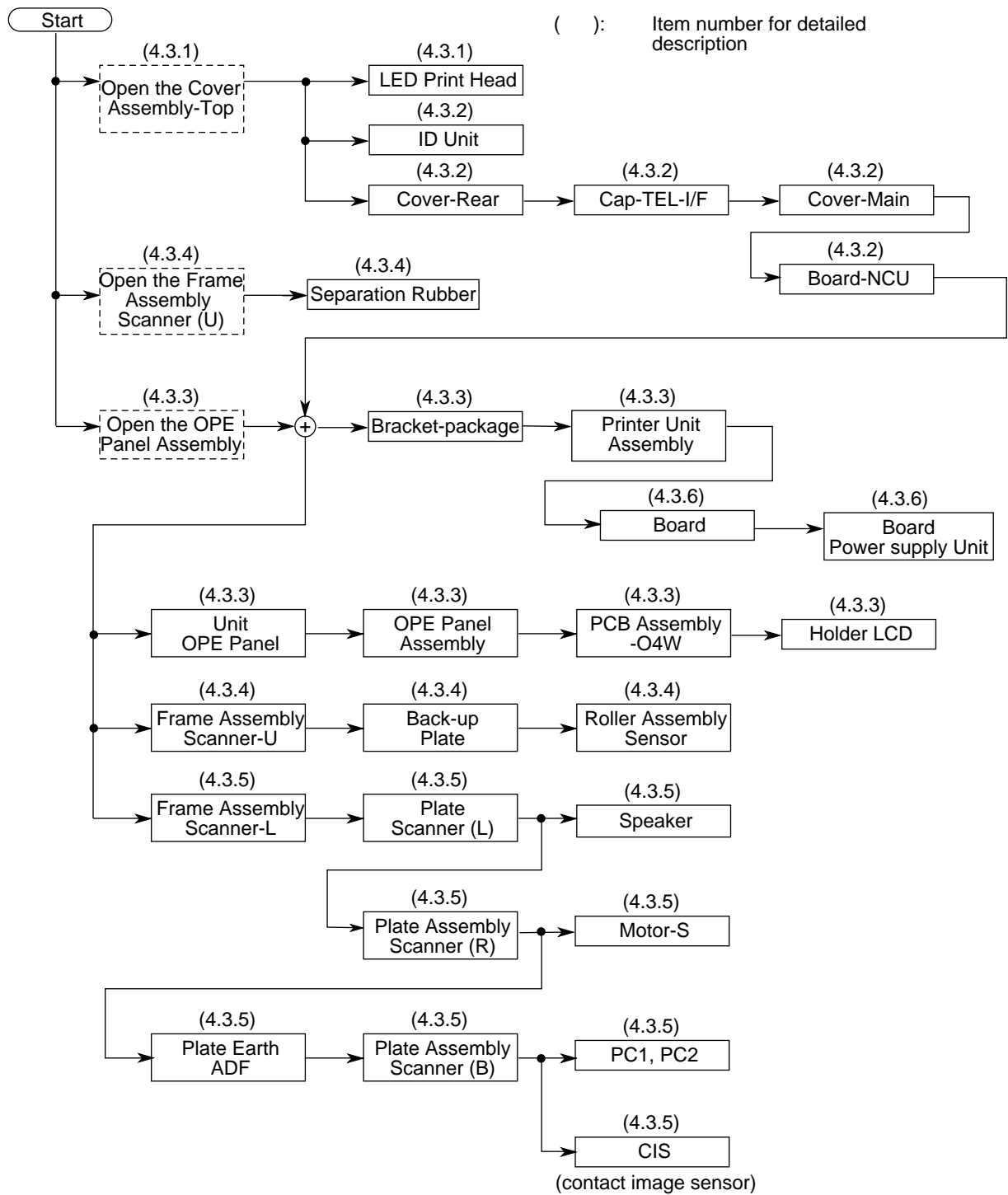


Figure 4.1 (1/2) Disassembly Procedure Flow

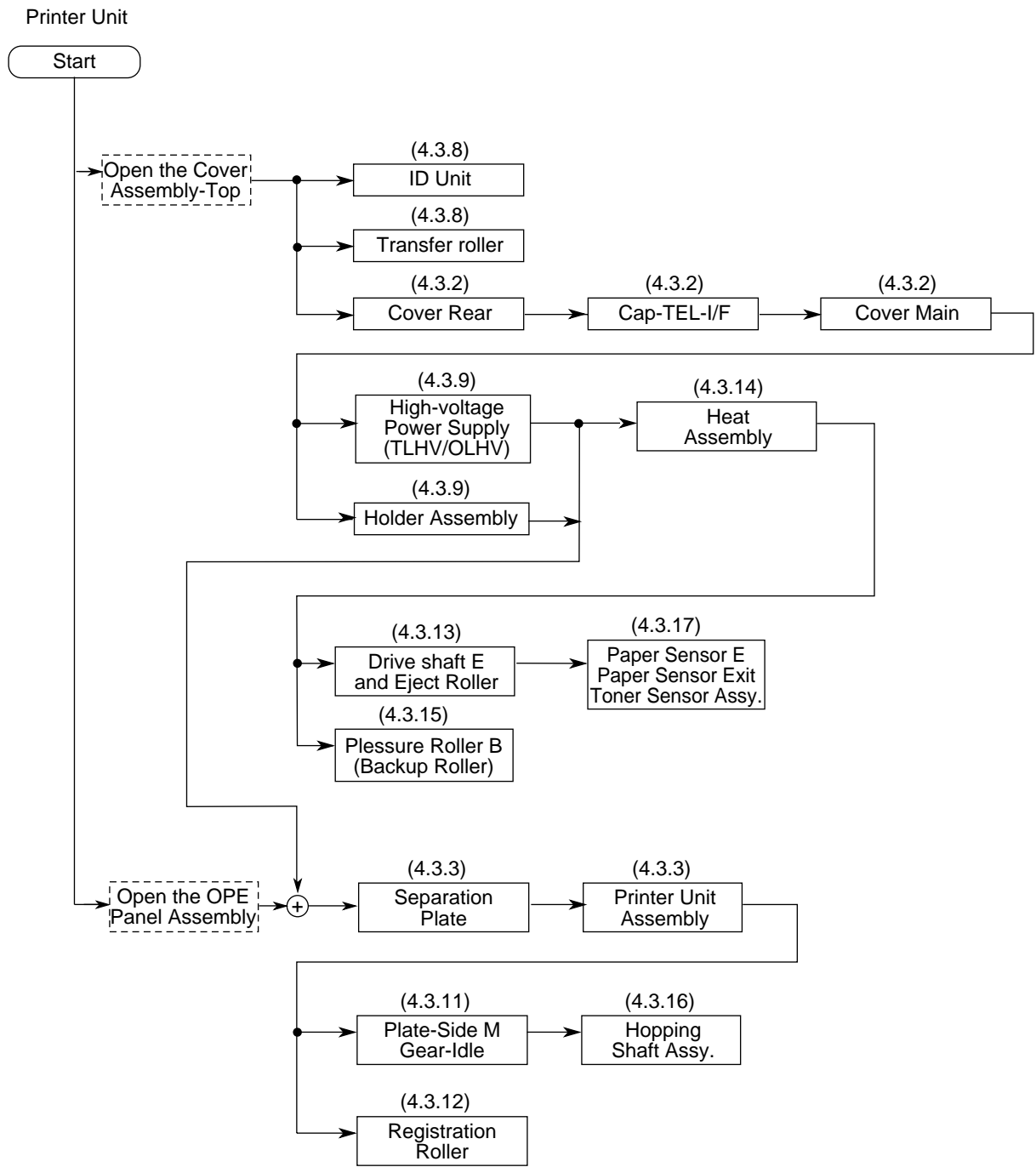


Figure 4.1 (2/2) Disassembly Procedure Flow

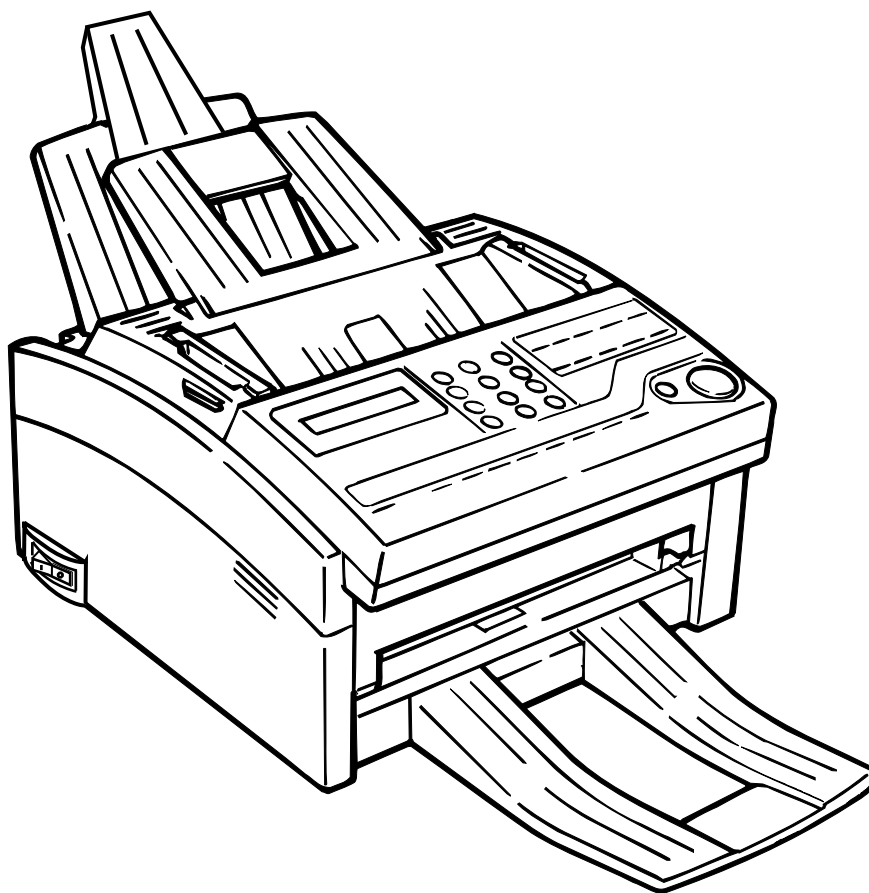


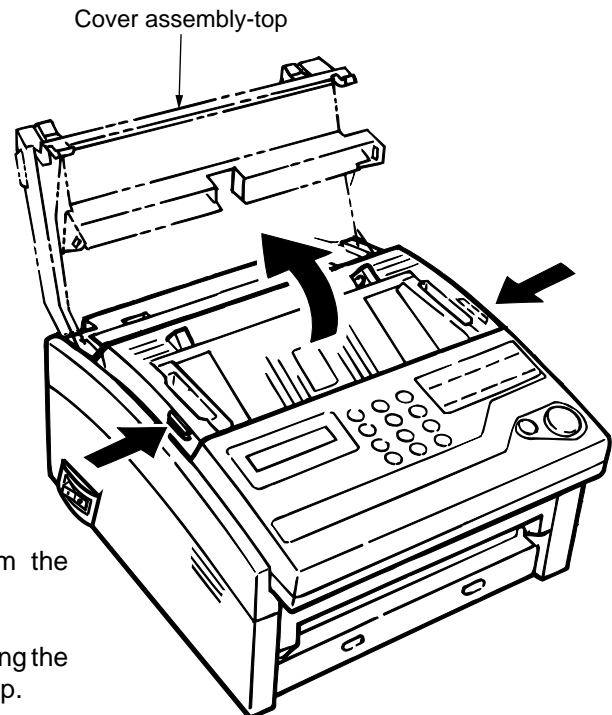
Figure 4.2 Appearance of the OKIFAX 4580

### 4.3.1 LED Print Head

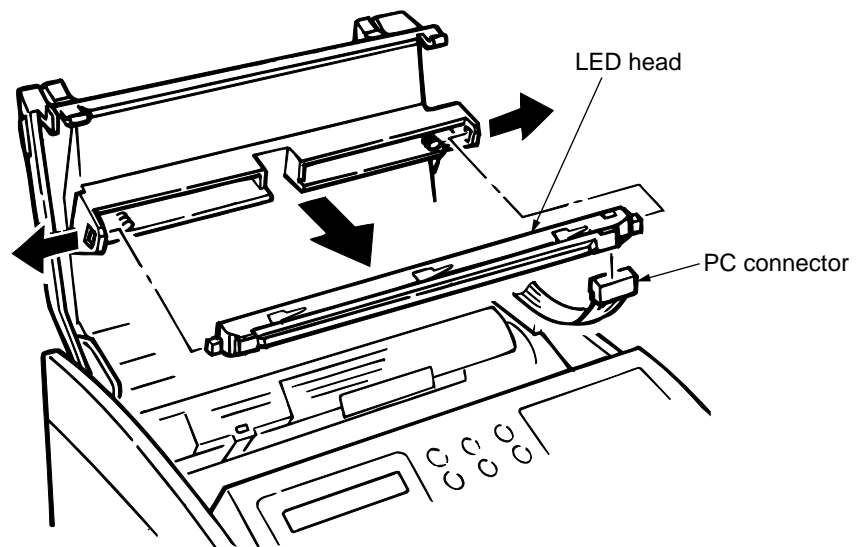
It is used two kind of head as the LED print head. (208 mm width or 216 mm width)

#### (1) Disassembly procedure

- a) Open the cover assembly-top by raising.



- b) Disconnect the PC connector from the LED print head.
- c) Remove the LED head while spreading the left clamp on the cover assembly-top.



**Note:** Be sure not to touch directly or push the SLA part of the print head.

#### (2) Reassembly procedure

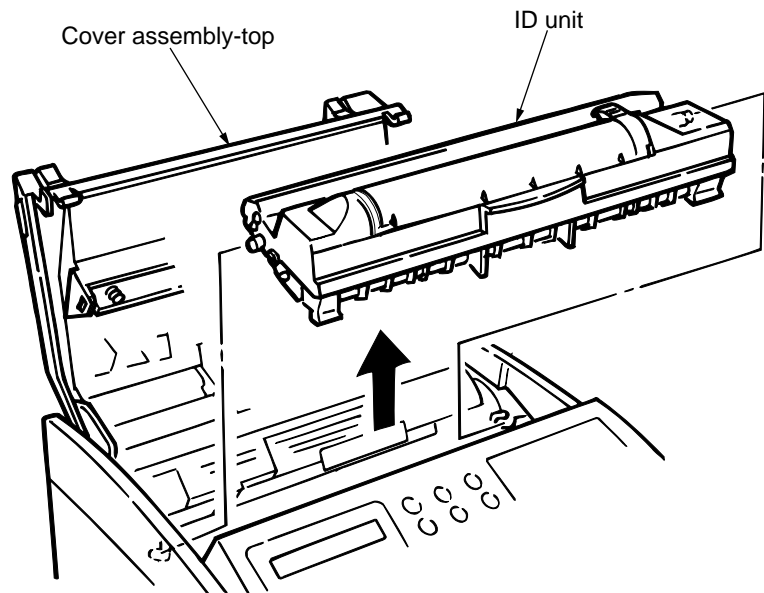
Reverse the disassembly procedures.

**Note:** After replacing the LED print head, set drive time of the LED print head following the marking. (Refer to section 5.1). When you replace the LED print head, if the width of the LED head to be used is changed from current version, you should select the head width by the service personnel initial setting. (Refer to Table 2.2 TF No. 26 and 27)

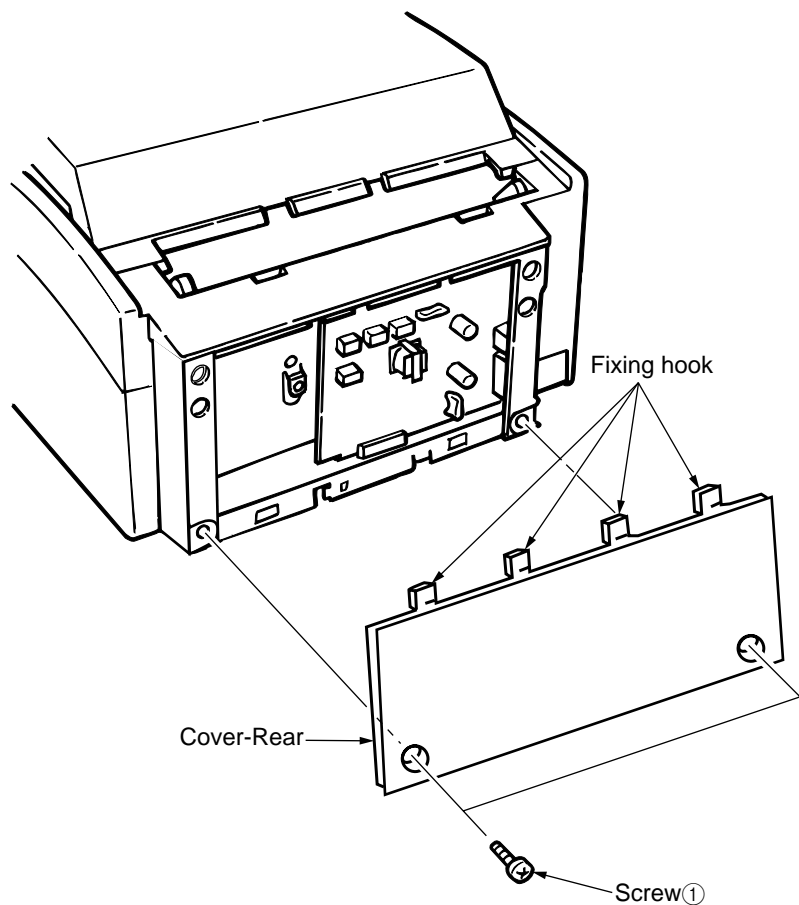
#### 4.3.2 ID Unit, Rear-Cover, Cover-Main, Board-NCU or Board-G4N

##### (1) Disassembly procedure

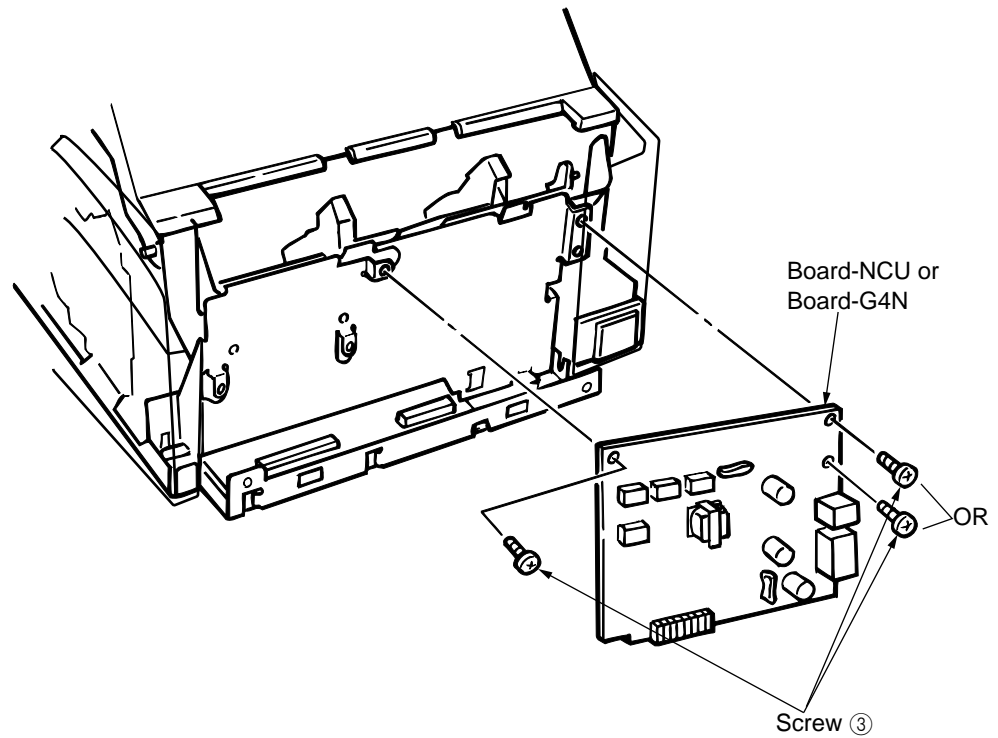
- a) Open the cover assembly-top by raising.
- b) Take out the ID unit from the equipment.



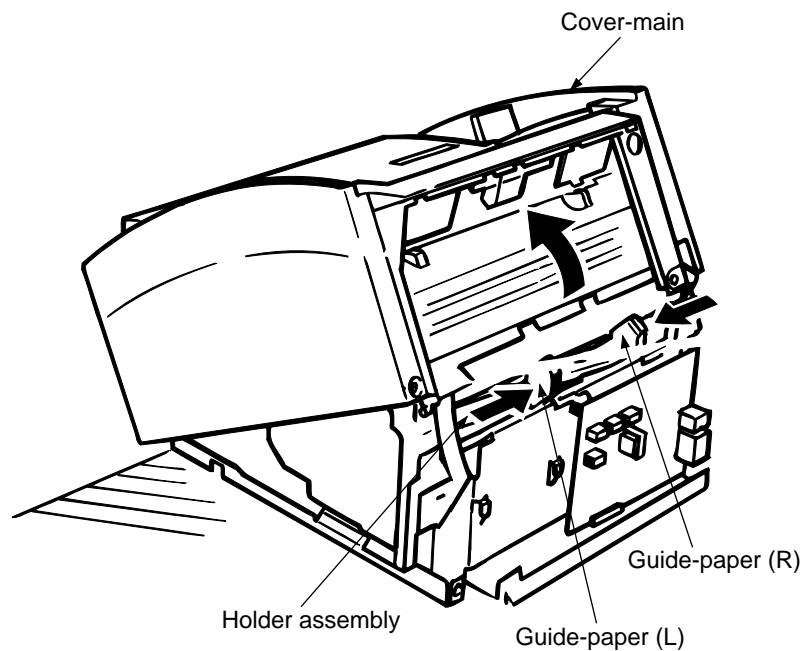
- c) Cover-Rear:  
Remove the Cover-Rear by removing the screws two and the part of the fixing hooks (4).



- d) Board-NCU and Board-G4N  
Remove the Board-NCU or Board-G4N by removing the two screw 3 and disconnect the connector (CN3) from Board-V46.



- e) First, move the center of Guide-paper (L) and (R) of Holder assembly, and then, open the Cover-Main from the rear side.



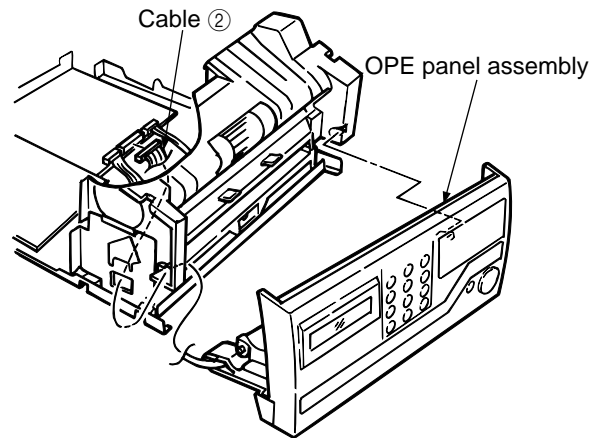
## (2) Reassembly procedure

Reverse the disassembly procedures.

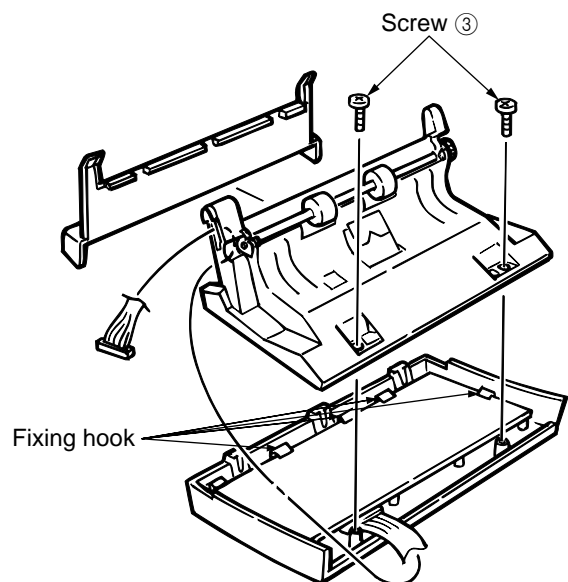
### 4.3.3 Unit-046 OPE-Panel

#### (1) Disassembly procedure

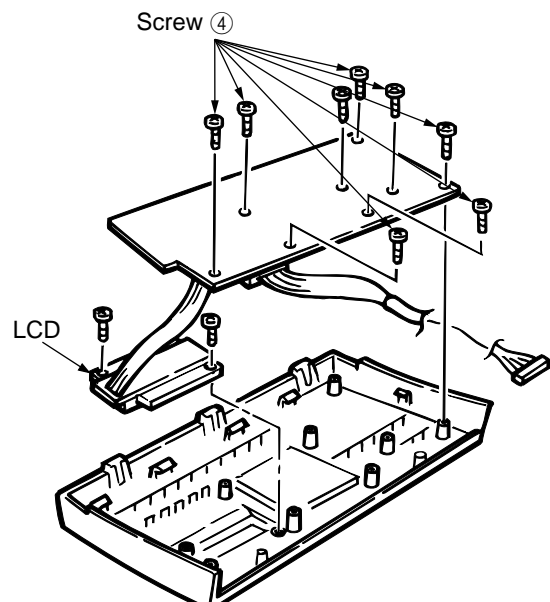
- a) First, carry out the disassembly procedure up to the point of the 4.3.2 (Item (e). Cover-main).
- b) Dismount the Printer-Unit. (See Section 4.3.18)
- c) Open the OPE-panel assembly.



- d) OPE panel assembly:  
Remove the OPE panel assembly by removing two screws ③, the eight screws ④ and the part of fixing hooks.



- e) Remove the part of LCD by removing the two screws.



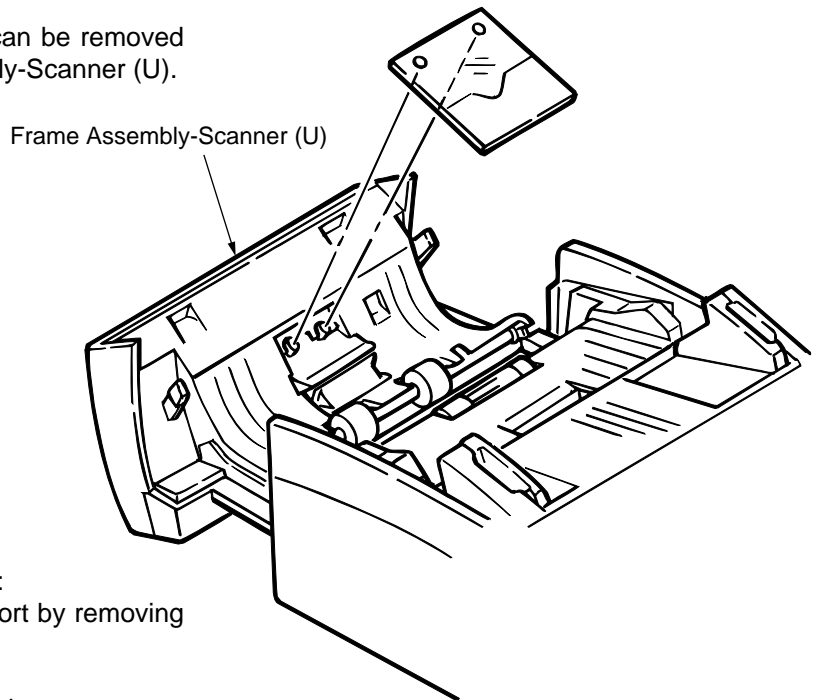
#### 2) Reassembly procedure

Reverse the disassembly procedures.

### 4.3.4 Separation Rubber, Roller Assembly Sensor

#### (1) Disassembly procedure

- a) Separation rubber:  
The separation rubber can be removed from the Frame Assembly-Scanner (U).

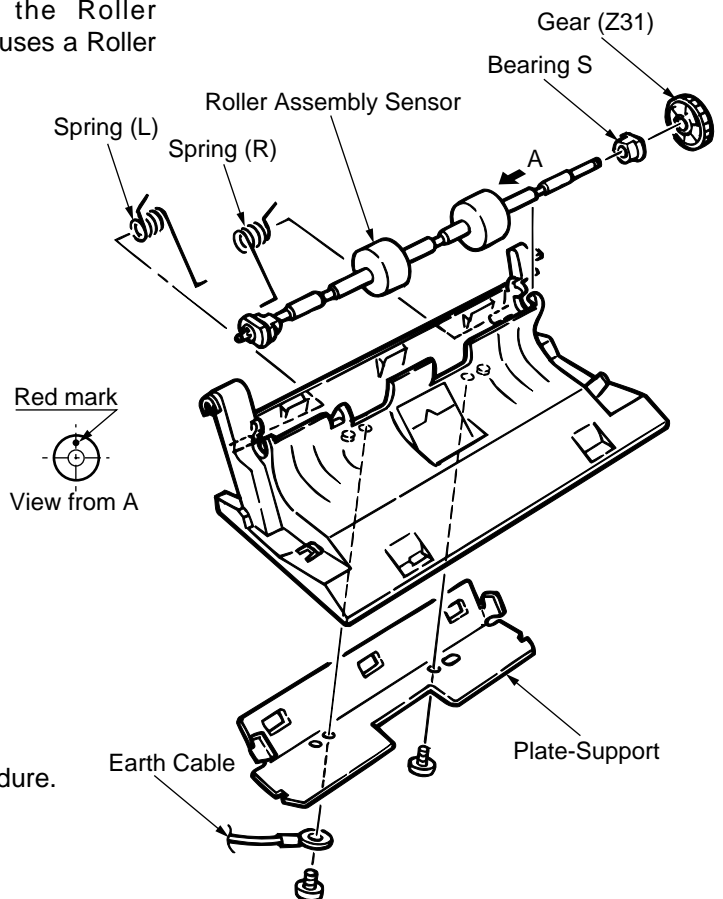


- b) Roller Assembly Sensor:  
Remove the Plate-Support by removing the two screws ①.

**Note:** Just fitting to two bossess.

- c) Remove the two springs (L) and (R).
- d) Remove the Roller Assembly-Sensor by removing the Gear (Z31).

**Note:** When replacing the Roller Assembly Sensor, uses a Roller with red mark.



#### (2) Reassembly procedure

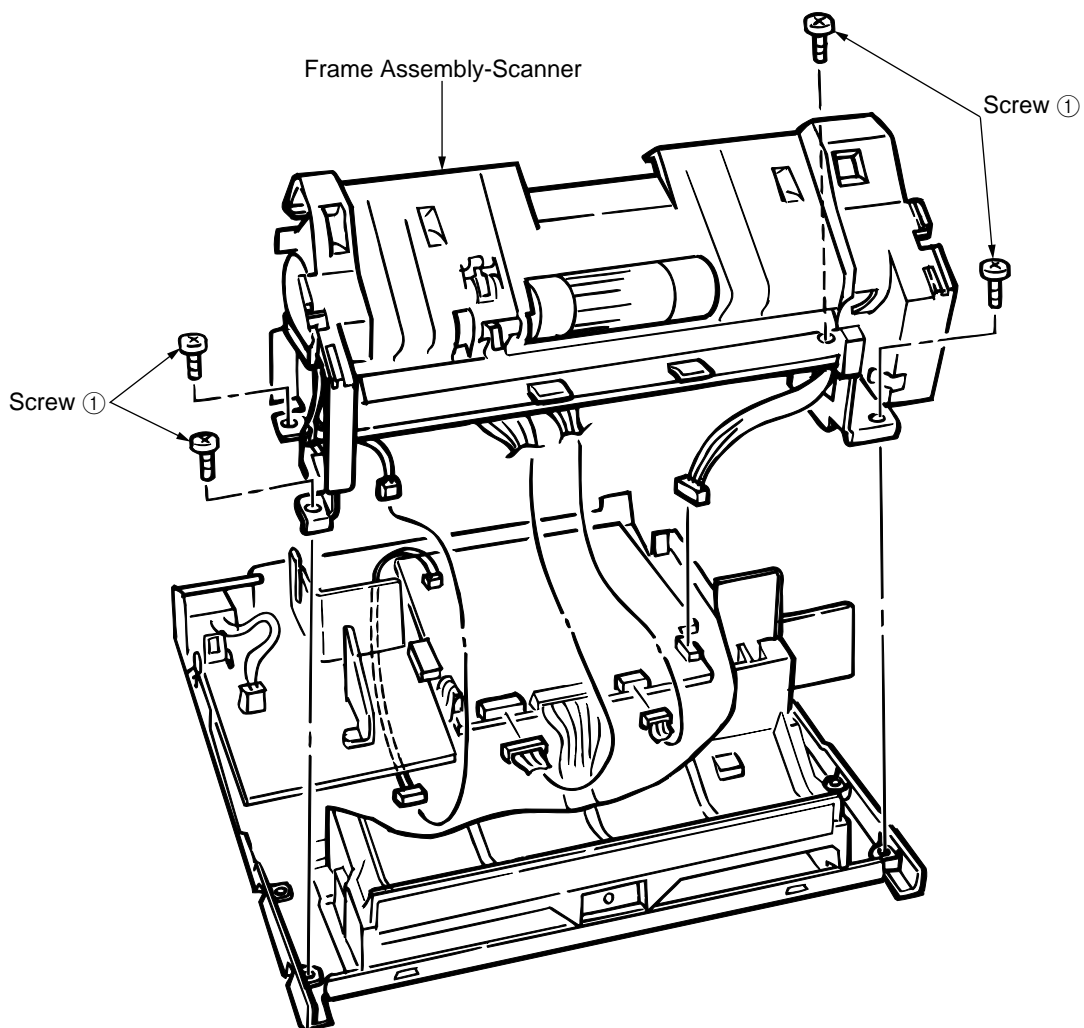
Reverse the disassembly procedure.

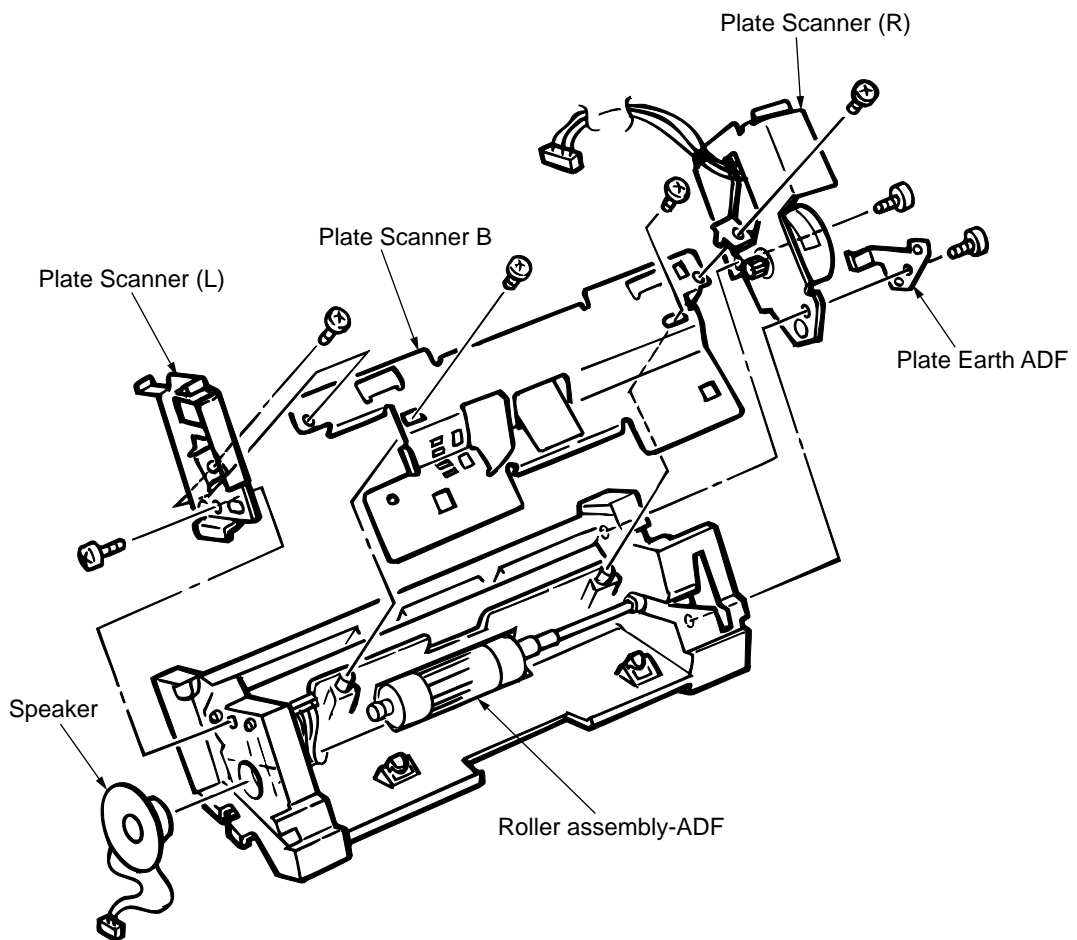


#### 4.3.5 Roller Assembly-ADF, CIS (contact image sensor), Lever-PC1 and PC2

##### (1) Disassembly procedure

- a) First, carry out the disassembly procedure up to the point of the 4.3.2 and 4.3.3.
- b) Dismount the Printer-Unit.  
(See Section 4.3.18)
- c) Remove the Frame assembly-Scanner (L) by removing the four screws ① and the four connectors.

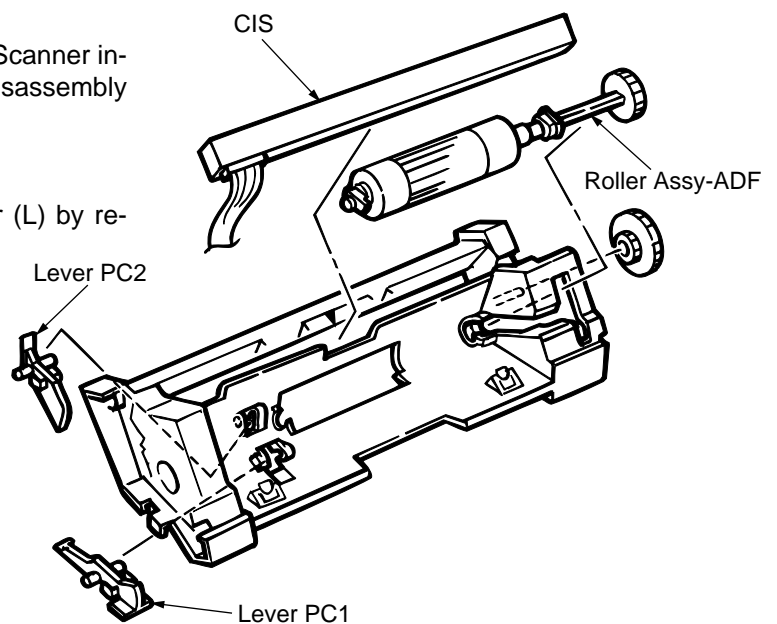




d) Turn the Frame Assembly-Scanner inside out and perform the disassembly procedure.

e) Remove the Plate Scanner (L) by removing the two screws.

f) Remove the Speaker.

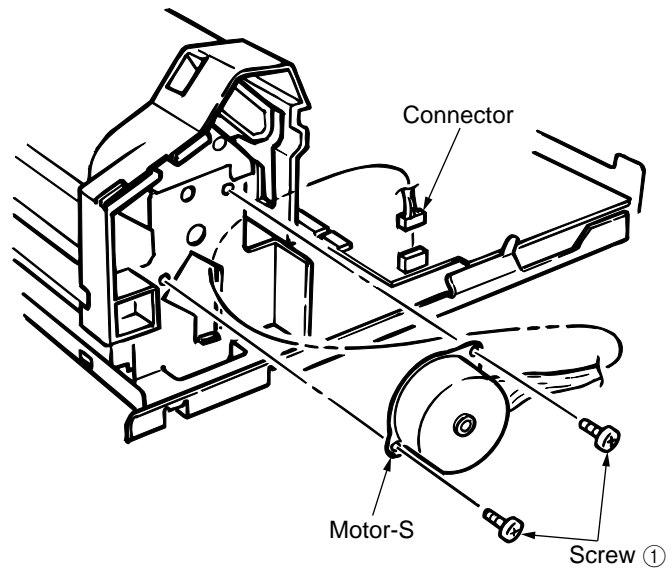


g) Remove the Plate Assembly-Scanner (R) and Plate Earth ADF by removing the three screws.

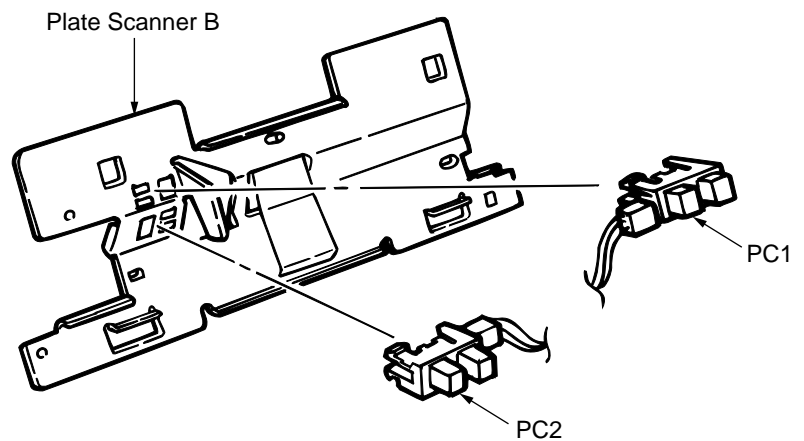
h) Remove the Plate Scanner (B) by removing the two screws and the part of the fixing hooks.

i) Remove the CIS (contact image sensor).

- j) Motor-S:  
Remove the Motor-S by removing the connector of motor and the two screws ①.



- k) Photo-Sensor (PC1, PC2):  
After disconnecting the two connectors, remove the photo-coupler sensors PC1 and PC2 on the Plate Scanner B by pressing the latch using the flat screwdriver or like.



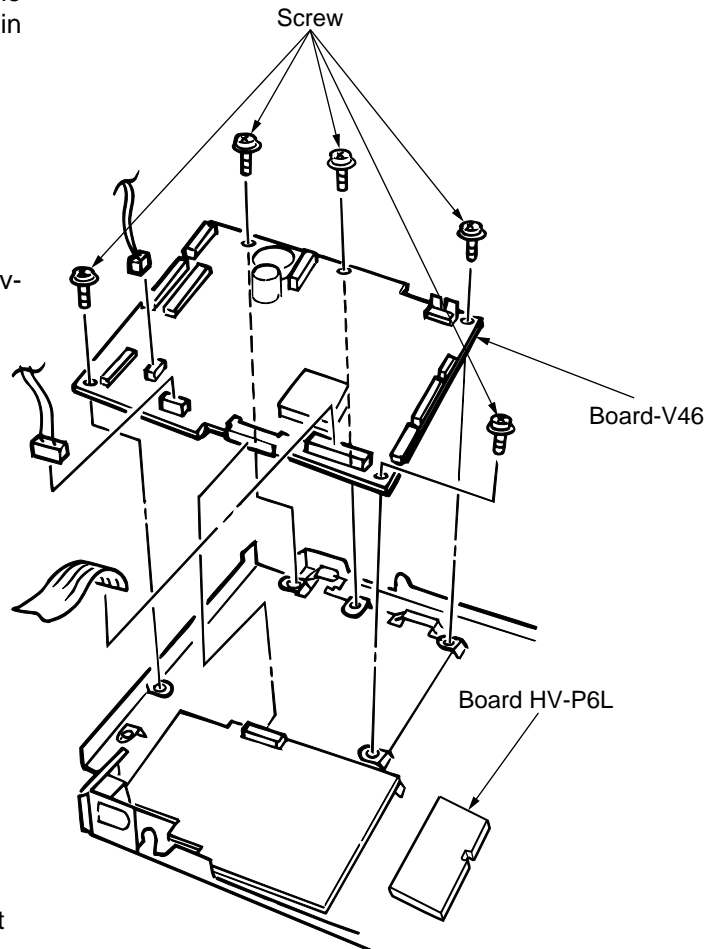
## (2) Reassembly procedure

Reverse the disassembly procedures.

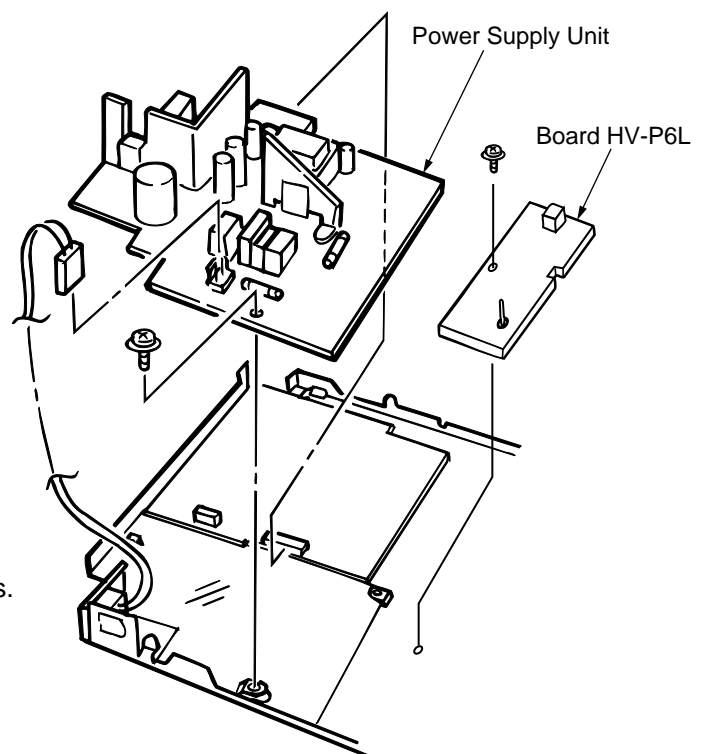
### 4.3.6 Board-V46 Power Supply Unit, Board HV-P6L

#### (1) Disassembly procedure

- a) First, carry out the disassembly procedure up to the point of the 4.3.2 (Cover-Rear, Cover-Main etc.).
- b) Board-V46:  
Disconnect the all connectors.
- c) Remove the Board-V46 by removing the five screws.



- d) Power Supply Unit:  
Disconnect the all connectors.
- e) Remove the Power Supply Unit by removing the screw.
- f) Board HV-P6L:  
Disconnect the all connectors.
- g) Remove Board HV-P6L by removing one screw.

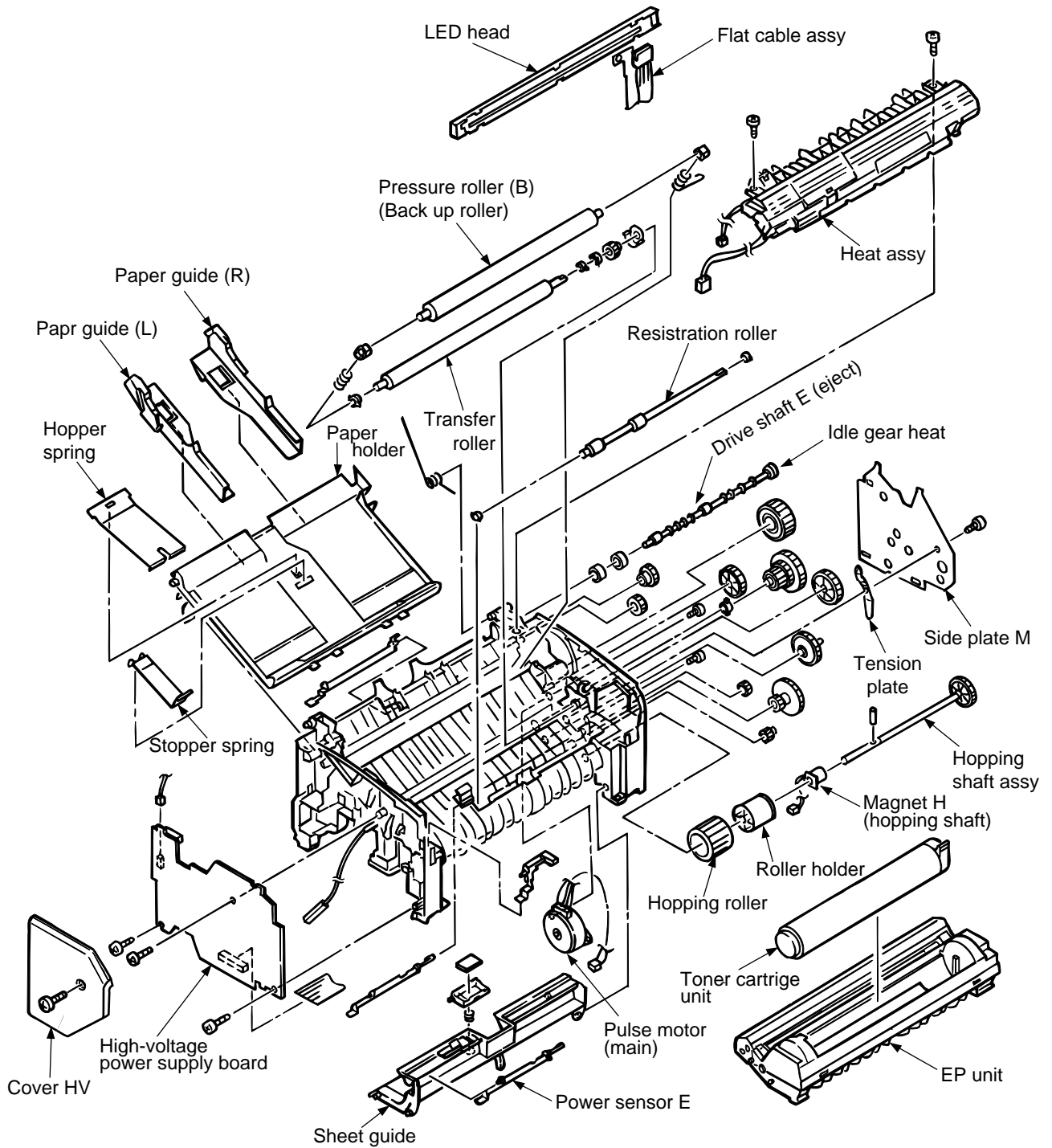


#### (2) Reassembly procedure

Reverse the disassembly procedures.

### 4.3.7 Printer Unit Section

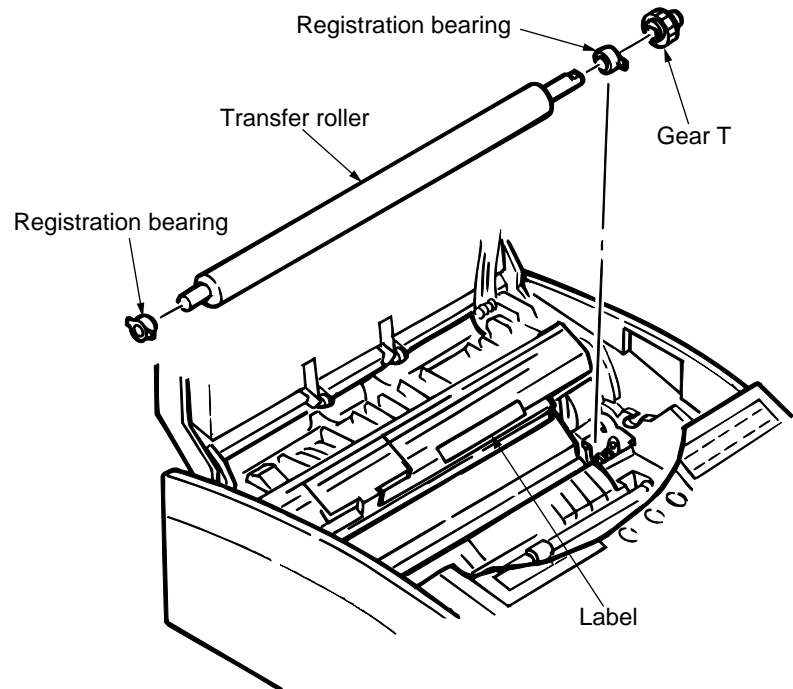
[Base Frame Unit]



### 4.3.8 Transfer Roller

#### (1) Disassembly procedure

- a) Open the cover assembly-top by raising and remove the ID unit.
  
- b) Remove the right claw.  
Then, dismount transfer roller, two registration bearing, and gear T.



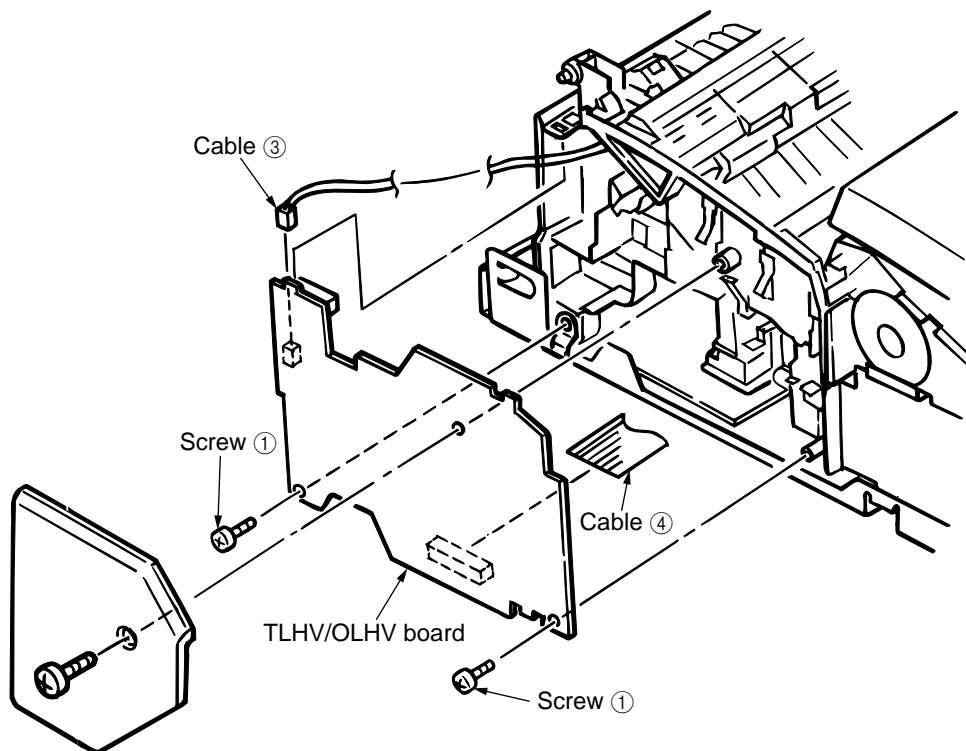
#### (2) Reassembly procedure

Reverse the disassembly procedures.

### 4.3.9 High-Voltage Power Supply Unit (HV-P2H)

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Remove three screws ① then remove Cover-HV and draw out high-voltage power supply board (HV-P2H).
- c) Disconnect all the cables ③ and ④ from high-voltage power supply board (HV-P2H) and dismount high-voltage power supply board.



- Caution:** Note the following when assembling the high-voltage power supply board:
- Mount the high-voltage power supply board with Cover-top assembly removed or open.
  - Take care that cable ③ will not interfere with the paper sensor exit when it is connected.

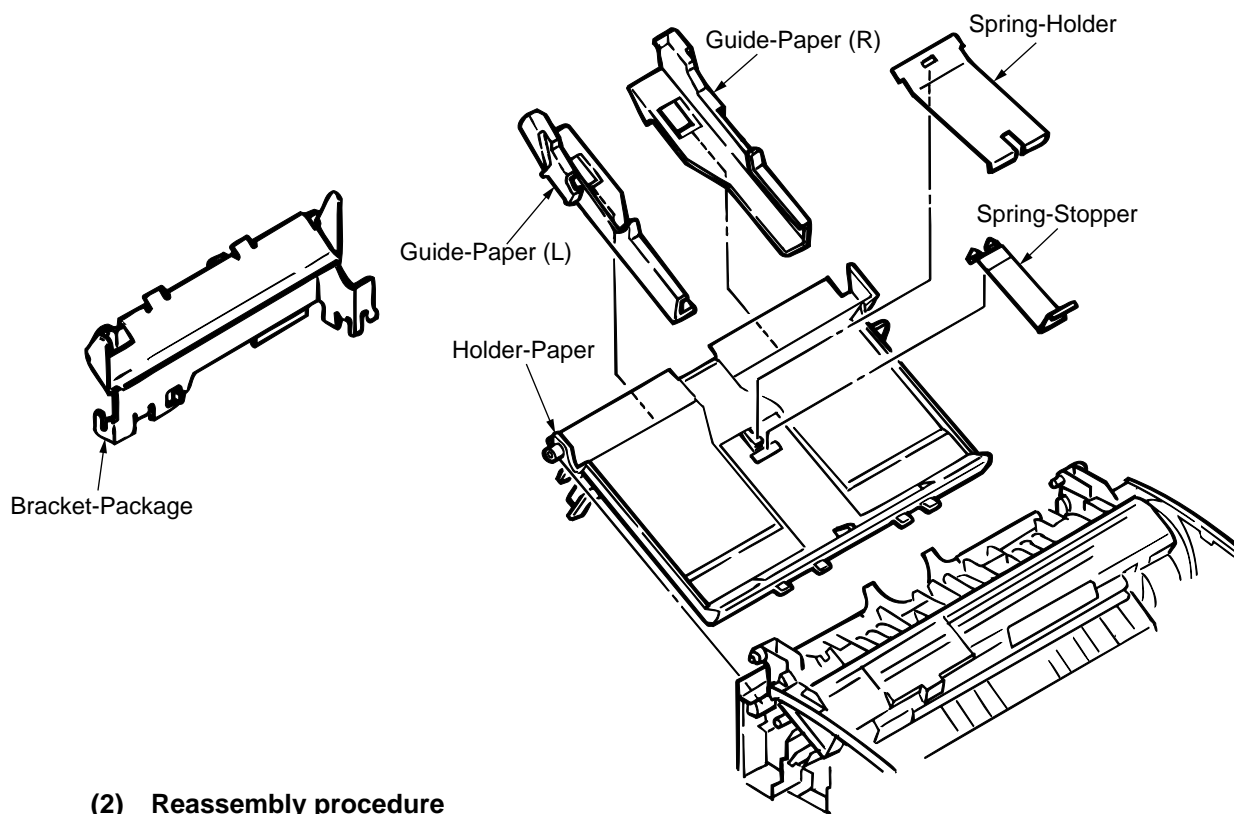
#### (2) Reassembly procedure

Reverse the disassembly procedures.

### 4.3.10 Holder Assembly

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Dismount the Bracket-Package.
- c) Dismount the Holder-Paper.
- d) Unlock and dismount the Guide-Paper (L) and Guide Paper (R).
- e) Remove the claw and dismount Spring-Holder.
- f) Remove the claw and dismount Spring-Stopper.



#### (2) Reassembly procedure

Reverse the disassembly procedures.

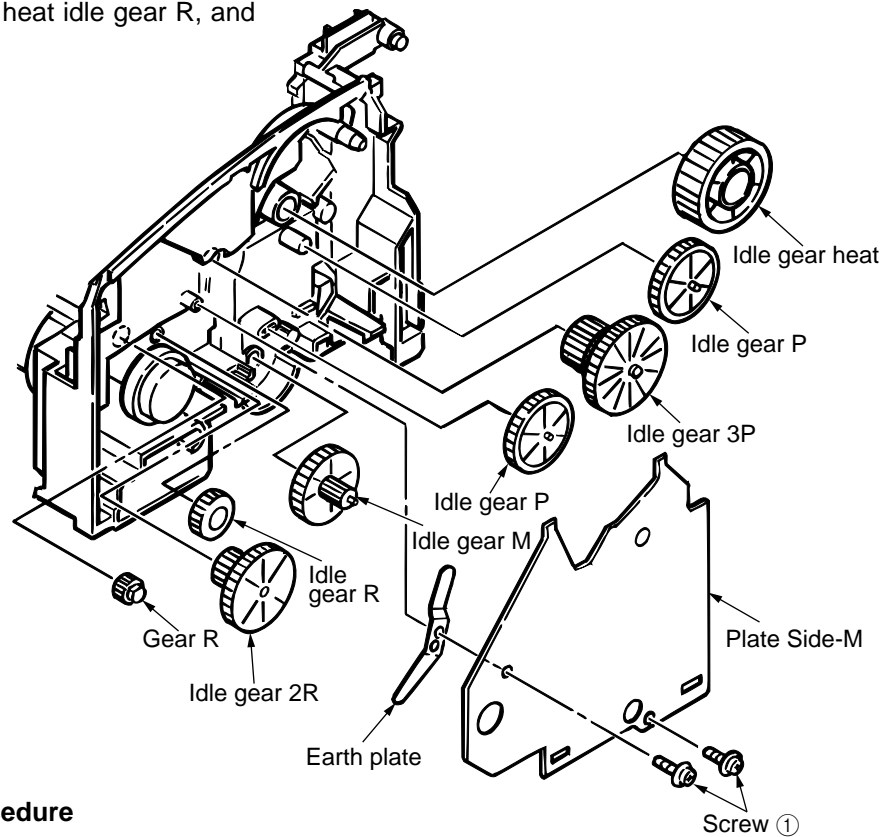


### 4.3.11 Plate-Side M and Gear-Idle

#### (1) Disassembly procedure

Perform parts replacement while making the base frame assembly stand so that Plate-Side M will face upward.

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Remove two screws ① and two claws, then dismount Plate-Side M.
- c) Dismount Plate-Earth, two idle gears P, idle gear M, idle gear 3R, idle gear 2R, idle gear heat idle gear R, and gear R.



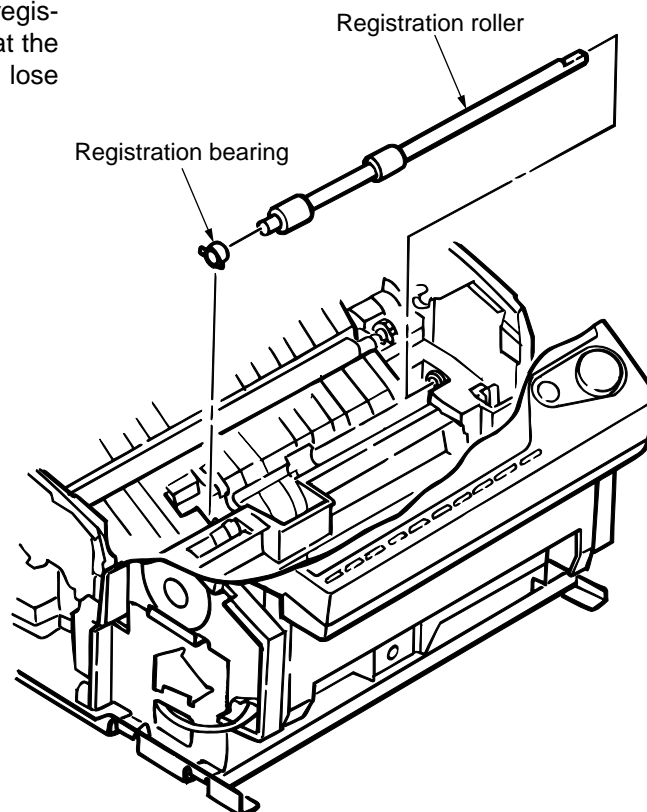
#### (2) Reassembly procedure

Reverse the disassembly procedure.

### 4.3.12 Registration Roller

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Move registration roller to the right and dismount it by lifting. (Two registration bearings also come off at the same time. Take care not to lose them.)



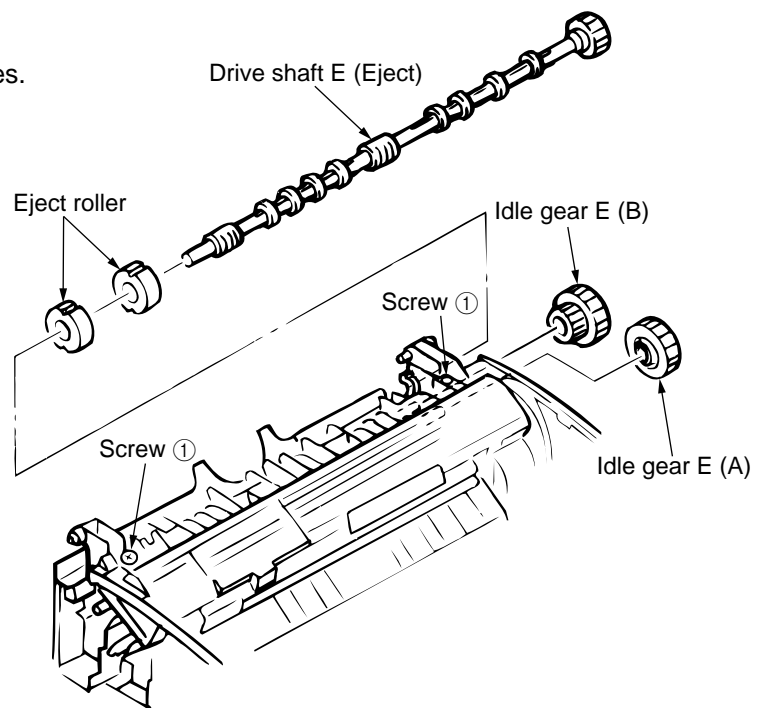
#### (2) Reassembly procedure

Reverse the disassembly procedures.

### 4.3.13 Drive Shaft E (Eject) and Eject Roller

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Remove two screws ① from Cover Heat Assembly (section 4.3.14), lift the heat assay, and dismount idle gear E (A) and idle gear E (B).
- c) Unlock and dismount drive shaft E (Eject).
- d) Dismount two eject rolles.



#### (2) Reassembly procedure

Reverse the disassembly procedures.

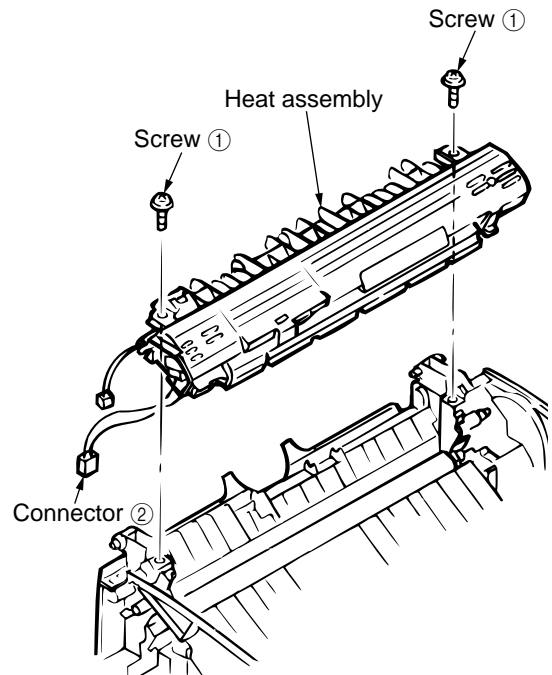
### 4.3.14 Heat Assembly

This section explains how to dismantle the heat assembly and parts in the assembly.

#### (1) Disassembly procedure

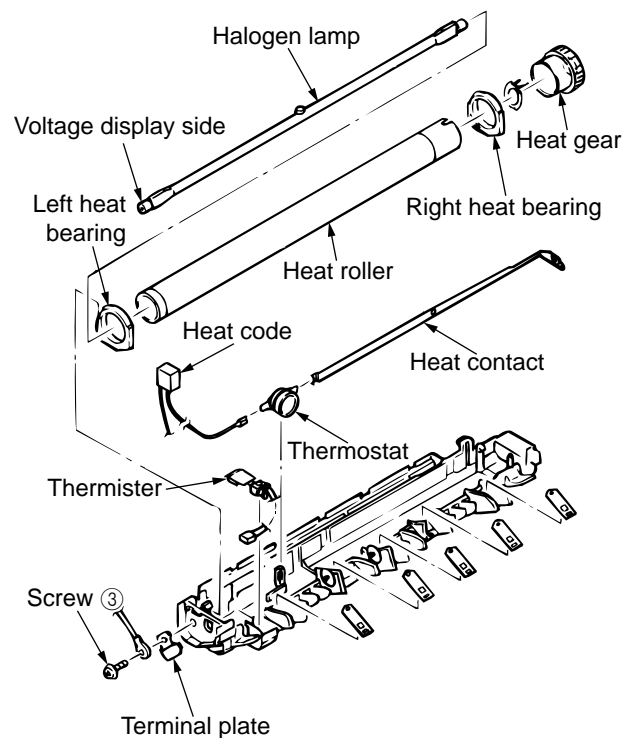
< Dismounting the heat assembly >

- First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- Dismount the high-voltage power supply board. (See Section 4.3.9)
- Remove NCU-Board with two screws.
- Remove Bracket-Package with three screws, then disconnect Cable-Flat from connector on Board-V46 (M-CNT). (See Section 4.3.18)
- Pull out the Holder-Assy. (See Section 4.3.10)
- Disconnect connector ②, remove two screws ①, and dismount the heat assembly.



<Dismounting parts in heat assembly>

- Dismount heat separator.
- Remove screw ③ and dismount terminal plate. (Handle heat assembly carefully because Halogen lamp comes off.)
- Turn left and right heat bearings in the arrow direction to unlock. Then, dismount halogen lamp, heat bearing, heat roller, and heat gear together. (Take care not to drop the Halogen lamp.)
- Dismount thermistor.
- Dismount the clamp, then thermostat, heat contact, and heat cord together.
- Dismount heat contact and heat cord from thermostat.



**Caution:** Take care not to bend the claw when dismounting heat bearing.

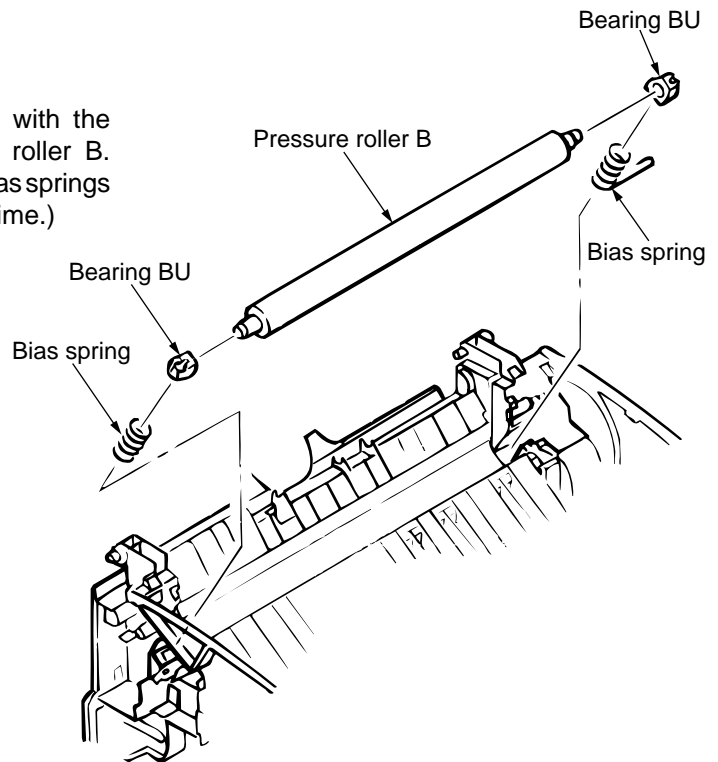
#### (2) Reassembly procedure

Reverse the disassembly procedures

### 4.3.15 Pressure Roller B (Back Up Roller)

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Dismount the high-voltage power supply board. (See Section 4.3.9)
- c) Dismount heat assembly. (See section 4.3.14)
- d) Dismount the engagement with the left ground, then pressure roller B. (Two bearing BUs and two bias springs also come off at the same time.)



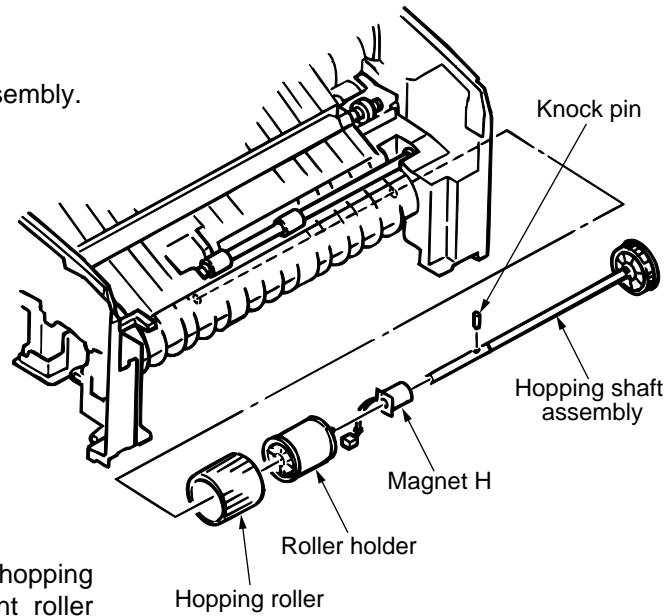
#### (2) Reassembly procedure

Reverse the disassembly procedures

### 4.3.16 Hopping Shaft Assembly

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Dismount the high-voltage power supply board. (See Section 4.3.9)
- c) Dismount the paper holder assembly. (See Section 4.3.10)
- d) Dismount the sheet guide. (See Section 4.3.11)
- e) Dismount the side plate M. (See Section 4.3.11)
- f) Raise up roller holder, slide hopping shaft assembly, and dismount roller holder and hopping roller. (Knock pin also comes off at the same time. Take care not to lose it.)
- g) Draw out hopping shaft assembly to the right and dismount magnet H.



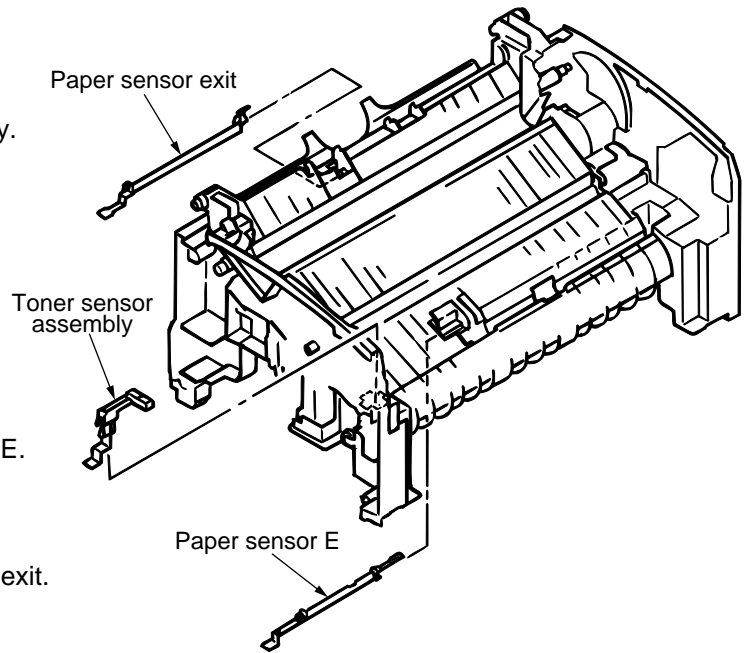
#### (2) Reassembly procedure

Reverse the disassembly procedures

### 4.3.17 Paper Sensor E, Paper Sensor Exit and Toner Sensor Assembly

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-MAIN).
- b) Dismount the high-voltage power supply board. (See Section 4.3.9)
- c) Dismount the paper holder assembly. (See Section 4.3.10)
- d) Dismount the heat assembly. (See Section 4.3.14)
- e) Dismount the drive shaft E. (See Section 4.3.13)
- f) Dismount the paper sensor E.
- g) Dismount the paper sensor exit.
- h) Dismount the toner sensor assembly.



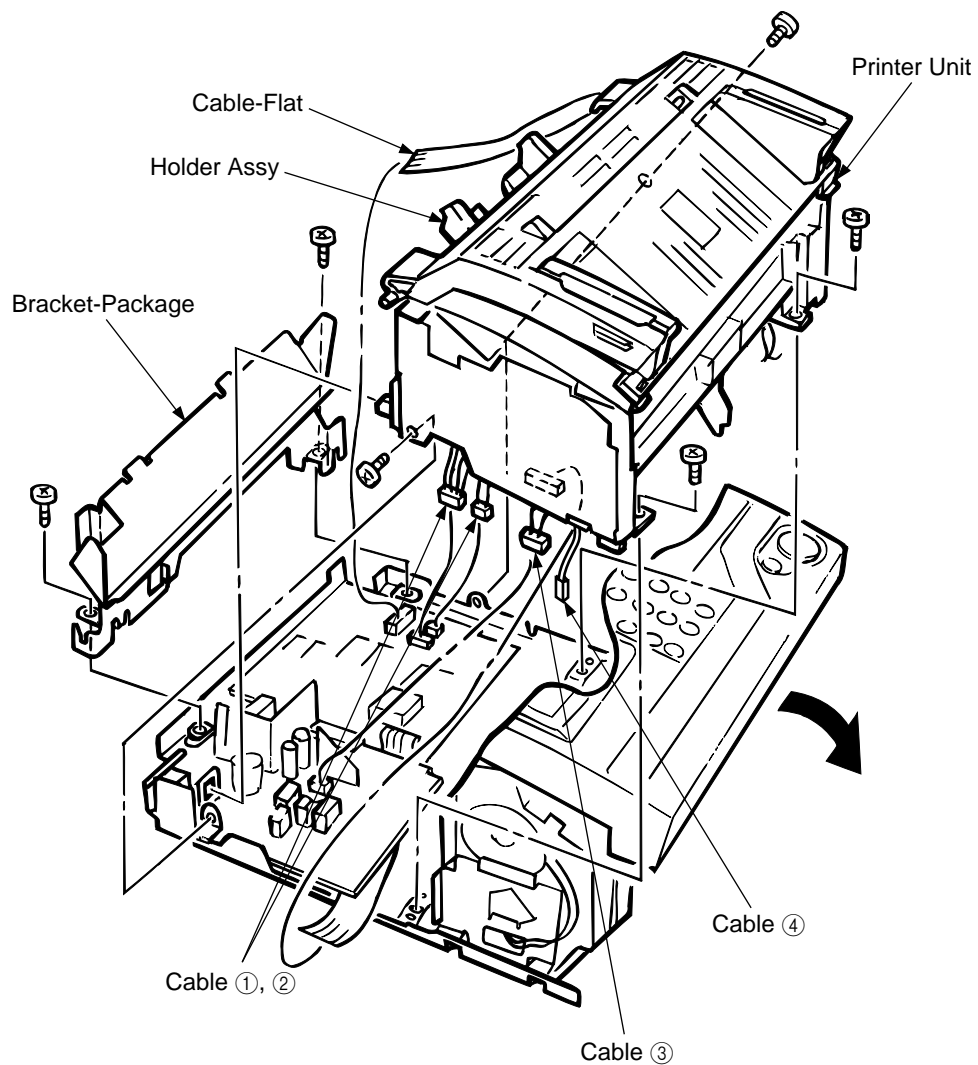
#### (2) Reassembly procedure

Reverse the disassembly procedures

### 4.3.18 Printer Unit

#### (1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.3.2 (ID Unit, Cover-Rear and Cover-Main).
- b) Remove Bracket-Package with three screws, then disconnect Cable-Flat from connector on Board-V46 (M-CNT).
- c) Pull out the Holder-Assy.
- d) Dismount the high-voltage power supply board.  
(See Section 4.3.9)
- e) Disconnect cable ① and ② from connector on Board-V46 (M-CNT), and disconnect cable ③ from Connect on Power Supply Unit, and disconnect cable ④ from Board HV-P6L.
- f) Remove the Printer Unit by removing three screws.







## 5.2 Confirmation

### 5.2.1 Confirmation Items

The clock frequency and power voltage of the machine are not possible to adjust in the field. However, their measurement procedures are described here for confirmation of clock frequency and each voltage.

#### 1) Clock Frequency

- Measurement point: V46 board; IC21-1 pin and ground terminal
- Specification: 20.000 MHz  $\pm$  50 PPM

**Note:** If the counter does not read with 20.000 MHz, replace with a new crystal oscillator (X1).

#### 2) +5V DC Voltage (SUB)

- Measurement point: V46 board; CN7-12 pin and ground terminal
- Specification: +5.2V  $\pm$  4%

#### 3) +5V DC Voltage

- Measurement point: V46 board; CN7-2 & 3 pin and ground terminal
- Specification: +5.1V  $\pm$  4%

#### 4) -8V DC Voltage

- Measurement point: V46 board; CN7-9 pin and ground terminal
- Specification: -12V to -6.5V

#### 5) +24V DC Voltage

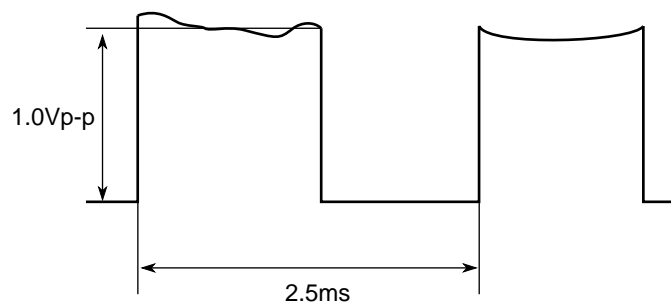
- Measurement point: V46 board; CN7-1 pin and ground terminal
- Specification: +24V  $\pm$  5%

#### 6) +30V DC Voltage

- Measurement point: V46 board; CN7-8 pin and ground terminal
- Specification: +26V to +40V

#### 7) Contact Image Sensor Output (SIG signal)

- Measurement point: V46 board; CN5-1 pin and ground terminal
- Specification: A waveform sample is shown below.
- Test chart: White sheet (A4 size)



### 5.2.2 Measurement

- 1) Turn the AC power OFF.
- 2) Carry out the disassembly procedure up to Cover assembly-top, Frame assembly-scanner, and Unit-printer.  
(Refer to the Mechanical Disassembly and Reassembly in Chapter 4.)
- 3) Connect extension cables to the V46 board.
- 4) Connect the frequency counter (for clock frequency), digital voltmeter (for power voltage) and Oscilloscope (for SIG signal). See Figure 5.1.
- 5) Turn AC power ON.  
Main power supply is set to "ON" (PC1 ON) by loading the document on the cover-top.  
(except +5V SUB)
- 6) Measurement
- 7) Turn the AC power OFF.
- 8) Reverse the disassembly procedures.

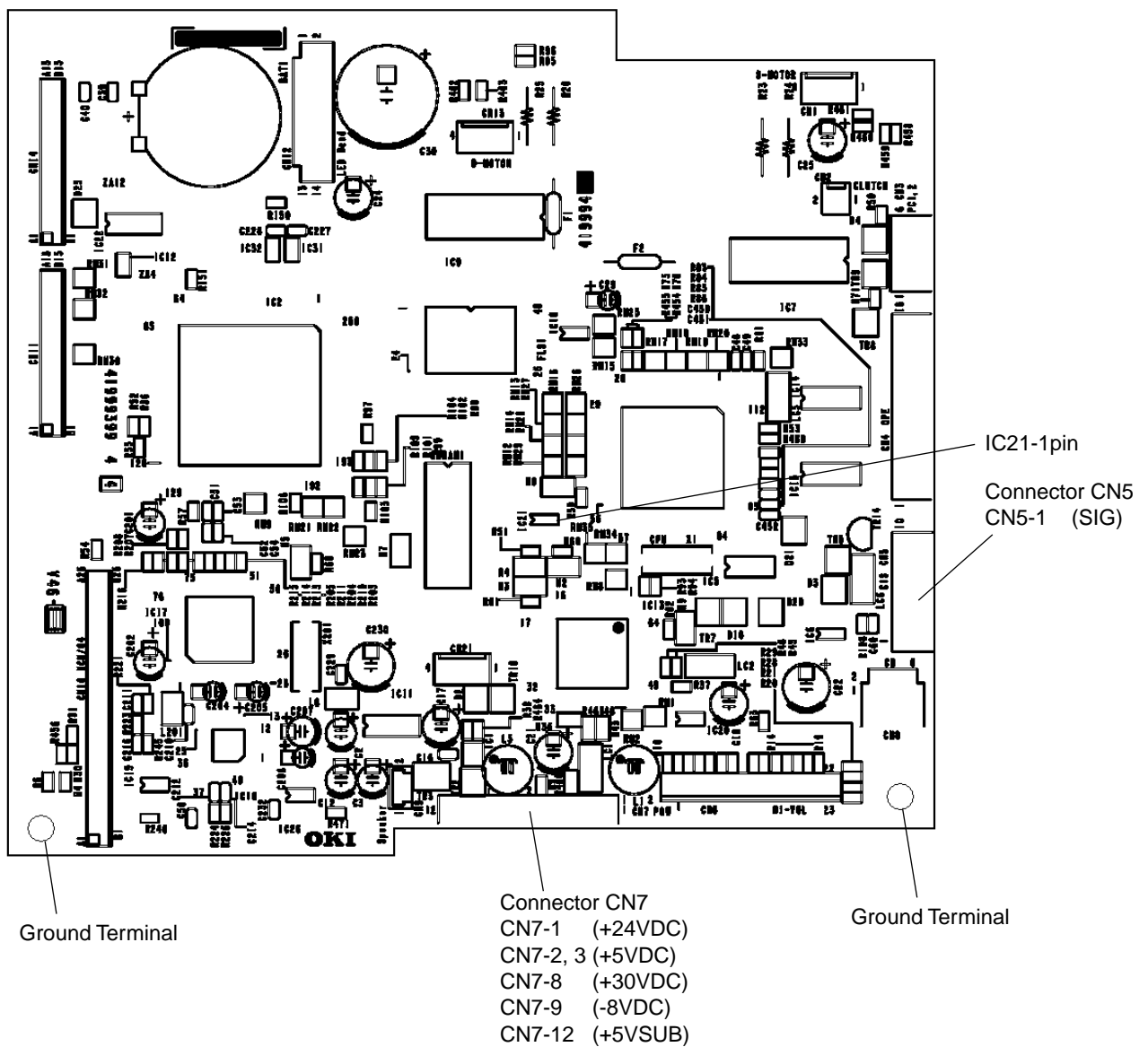


Figure 5.1 Measurement Points on Board-V46

## 6. CLEANING AND MAINTENANCE

### 6.1 Replacement of Consumable

The user (or service personnel) is required to replace the following items as consumable parts.

#### (1) User side

| No. | Part name                     | Expected Use Before Replacement   | Reference Item No. in Figure 6.1 |
|-----|-------------------------------|---|----------------------------------|
| 1   | Toner Cartridge               | 1,875 sheets/4% duty<br>(ITU-T document sample No.1)<br>(For the second or later cartridge to a new I/D Unit)<br>* The first toner cartridge installed in a new I/D unit will have a decreased yield. | (1)                              |
| 2   | I/D Unit<br>(Image drum unit) | 4,500 sheets: 1 page/job, 8,000 sheets: 3 page/job, 10,000 pages/continuous   | (2)                              |

#### (2) Service personnel side

| No. | Part name         | Expected Use Before Replacement   | Reference Item No. in Figure 6.1 |
|-----|-------------------|---|----------------------------------|
| 1   | Fuser Unit        | 30,000 sheets   | (3)                              |
| 2   | Separation Rubber | The Separation Rubber will not require replacement for at least 30,000 documents fed. | (4)                              |

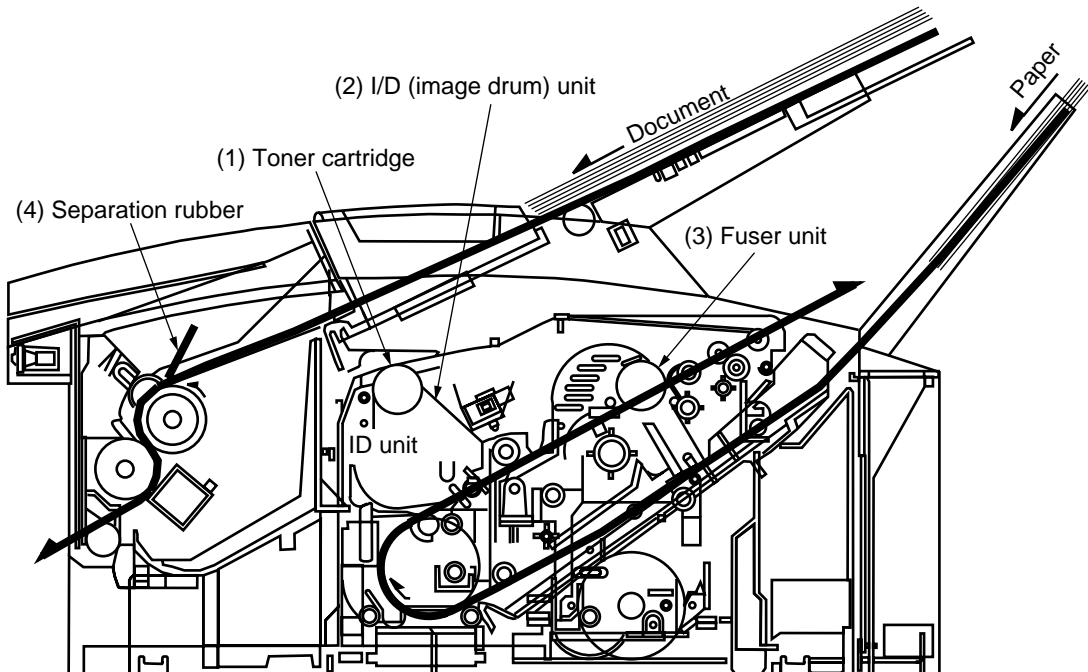


Figure 6.1 Consumable Parts

**(3) Others****Table 6.1 Reliability**

| No. | Item                   | Specifications   |
|-----|------------------------|--|
| 1   | Document feeder        | Jam occurrence and misfeeds in the automatic document feeder will be less than one in 500 operations for all specified documents.  |
| 2   | Recording paper feeder | Jam occurrence in the automatic paper feeder will be less than one in 1,500 operations and misfeeds will be less than one in 500 operations for all specified recording paper.   |
| 3   | MTBF                   | <p>The MTBF for the overall machine will exceed 3,000 hours of actual operation.</p> <p>The MTBF will be measured at a confidence level of 95% under controlled laboratory conditions.</p> <p>The MTBF will be based on 50% transmit and 50% receive activities.</p> |
| 4   | Battery (for RTC)      | <p>5 years</p> <p>Lithium battery : Not rechargeable</p>   |

## 6.2 Routine Inspection

Basically, the routine inspection of following items is performed about half-yearly (or every one year) after the machine is installed. The description of routine inspection is shown in Table 6.2.

**Table 6.2 Routine Inspection**

| No. | Part name            | Expected Use Before Replacement  | Reference Item No. in Fig.6.2 |
|-----|----------------------|--|-------------------------------|
| 1   | Roller-scan          | Clean with wet cloth.  | (1)                           |
| 2   | Roller-ADF           | Clean with wet cloth.<br>If the surface of this roller becomes dirty and the dirt causes misfeeding of documents, perform this cleaning. | (2)                           |
| 3   | Contact Image Sensor | Check for accumulation of paper dust, etc.<br>Clean with ethyl alcohol if necessary.   | (3)                           |
| 4   | Separation Rubber    | Clean with wet cloth.<br>If this rubber is worn out, replace this rubber. (every one year)   | (4)                           |
| 5   | LED print head       | Clean the surface of the head by moving the tissue paper back and forth several times.   | (5)                           |
| 6   | Printer unit         | Clean the inside of the printer unit by using wet cloth.   |                               |
| 7   | Lubrication          | Apply MOLYKOTE EM-30L Greese (Made by Dow corning co., ltd.) oil to the following parts:<br>a. Gears (every one year)                    |                               |
| 8   | Cleaning             | Remove materials that have fallen from outside, if any.  |                               |

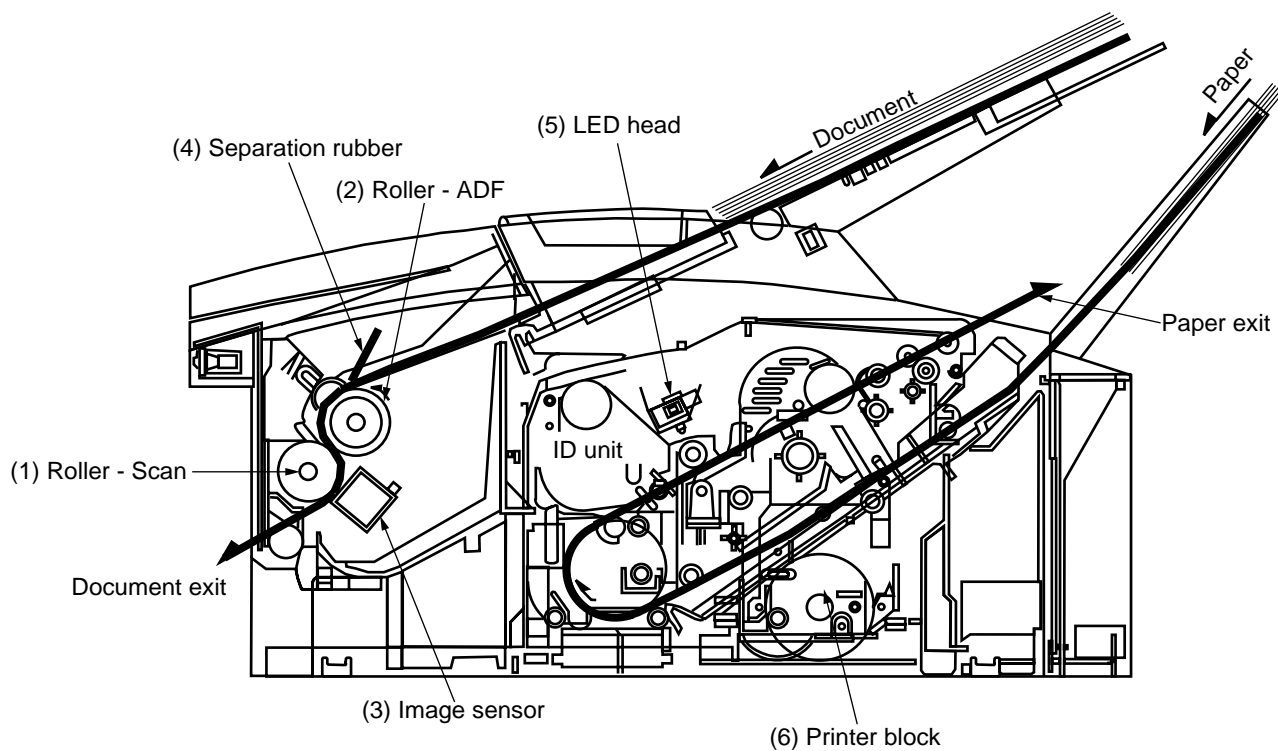


Figure 6.2 Parts of Routine Inspection

### 6.3 Printer Counter Display/Clear

**Note:** The fonts displayed on the LCD operation panel may differ from the fonts written this manual.

#### 1. Purpose

A user can clear the image drum unit and check some of the counters (such as the print counter, scan counter) by using the ← key or → key.

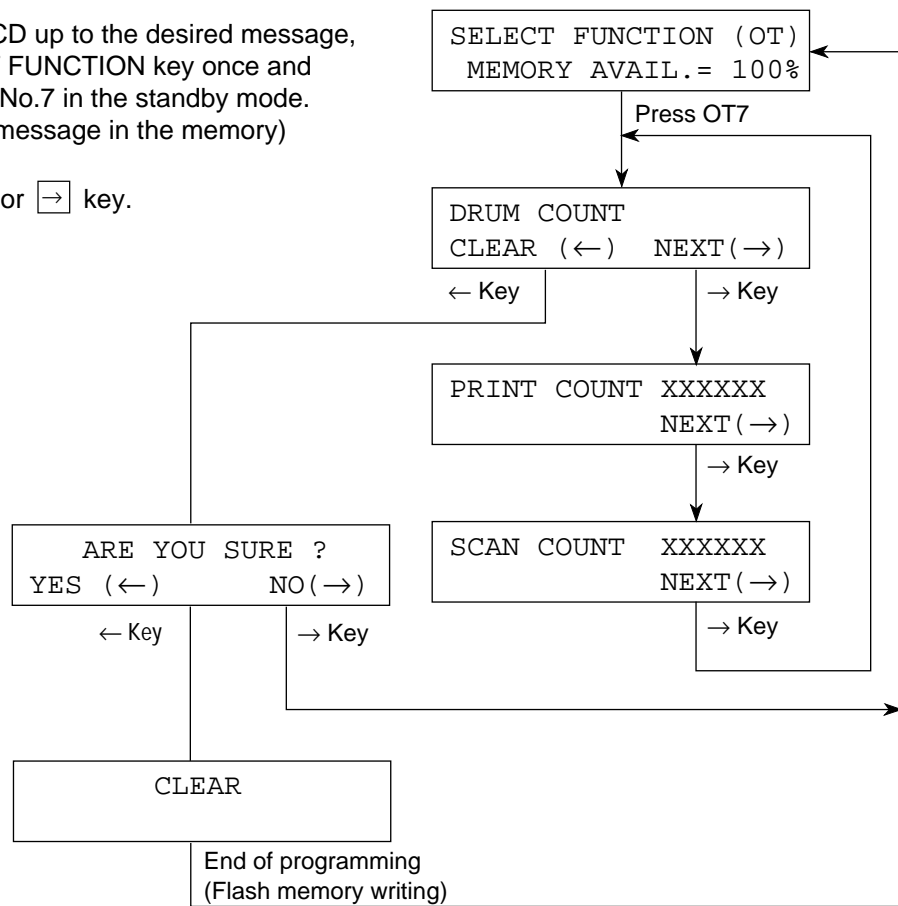
#### 2-1. Procedure

The following shows the case when the service bit has been set OFF & TONER COUNT CLEAR = OFF.

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No.7 in the standby mode. (In case of no message in the memory)
- Press ← key or → key.

#### The display shows:



**Note:** Clear Operation

No. of print counter and scan counter (pages) will appear but cannot be cleared by user.

User can clear only DRUM counter.

After having cleared the drum counter, warning message will be disappeared.



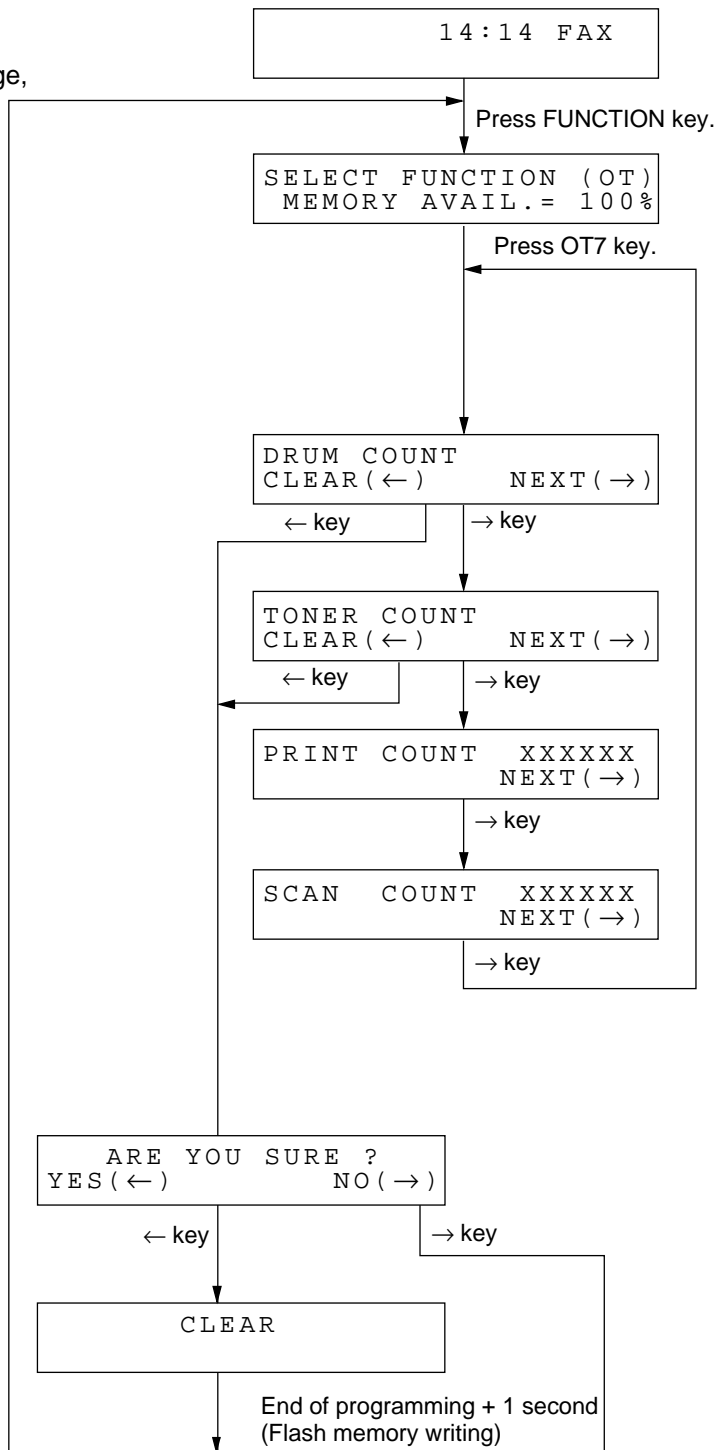
2-2. Procedure

The following shows the case when the service bit has been set OFF & TONER COUNT CLEAR = ON.

**Operations:**

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 7 in the standby mode. (In case of no message in the memory)
- Press  key or  key.

**The display shows:**



**Note:** Clear Operation

No. of print counter and scan counter (pages) will appear but cannot be cleared by user. User can clear DRUM counter and TONER counter.

After having cleared the drum counter, warning message will be disappeared.

## 6.4 Printer Counter Display/Clear

### 1. Purpose

The service personnel can clear and check the following data:

- Image Drum
- Toner
- Image Drum (Total)
- Print
- Scan

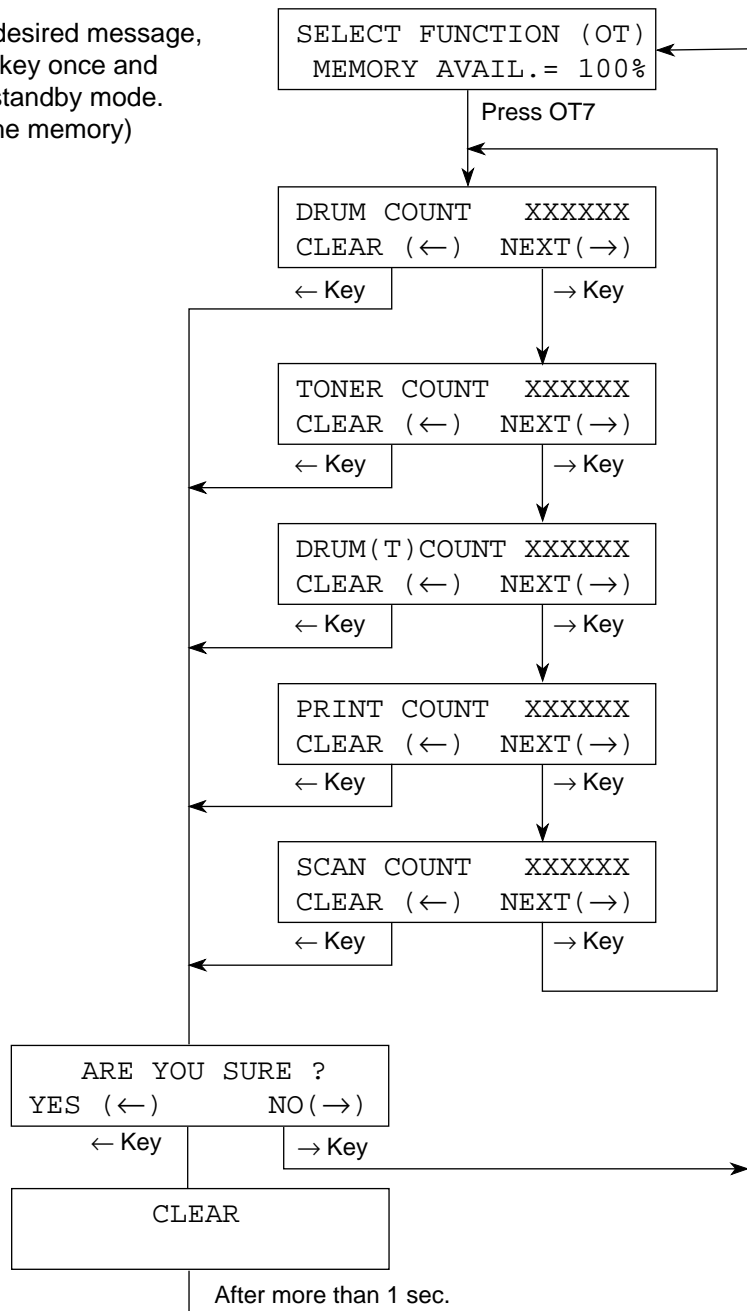
### 2. Procedure

The following shows the case when the service bit has been set ON.

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and one-touch key No. 7 in the standby mode. (In case of no message in the memory)
- Press  key or  key.

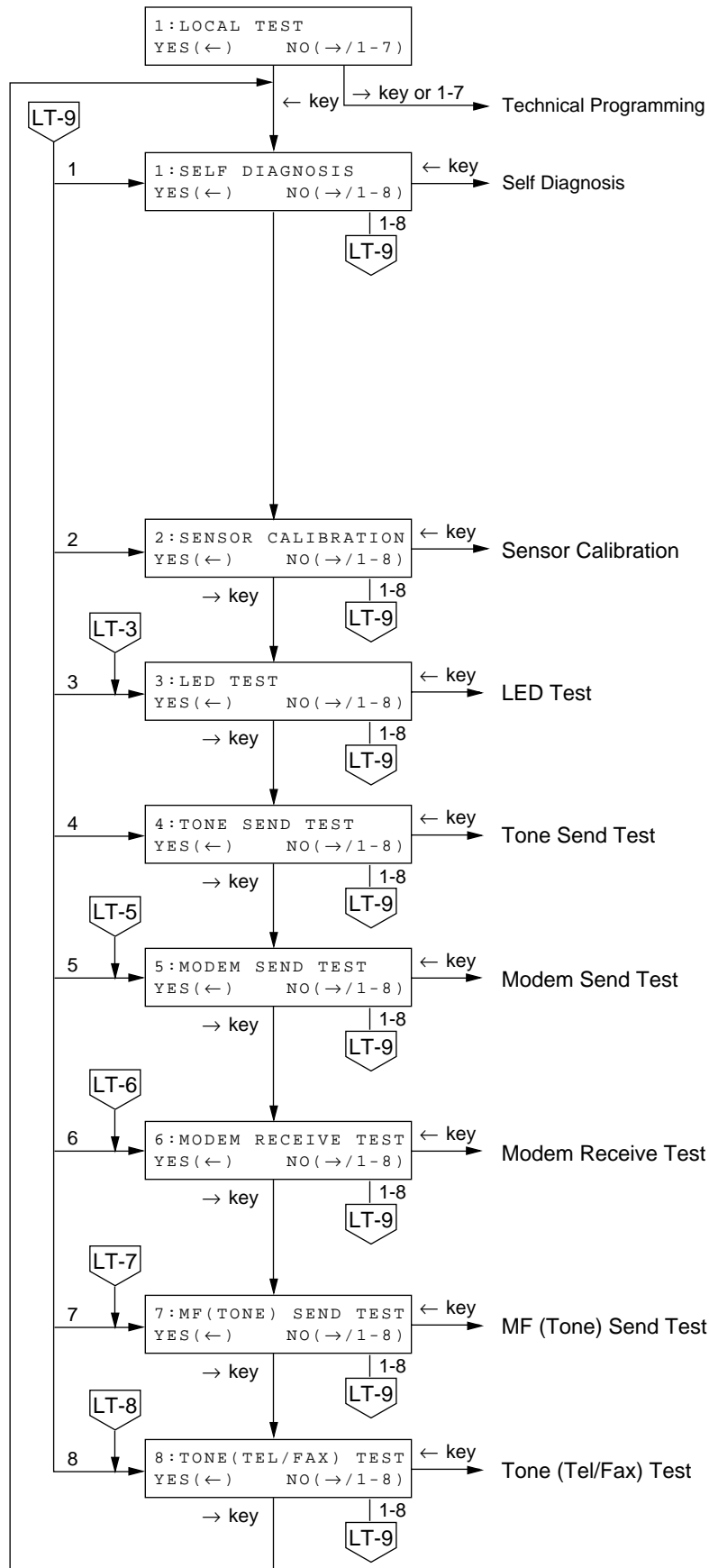
#### The display shows:



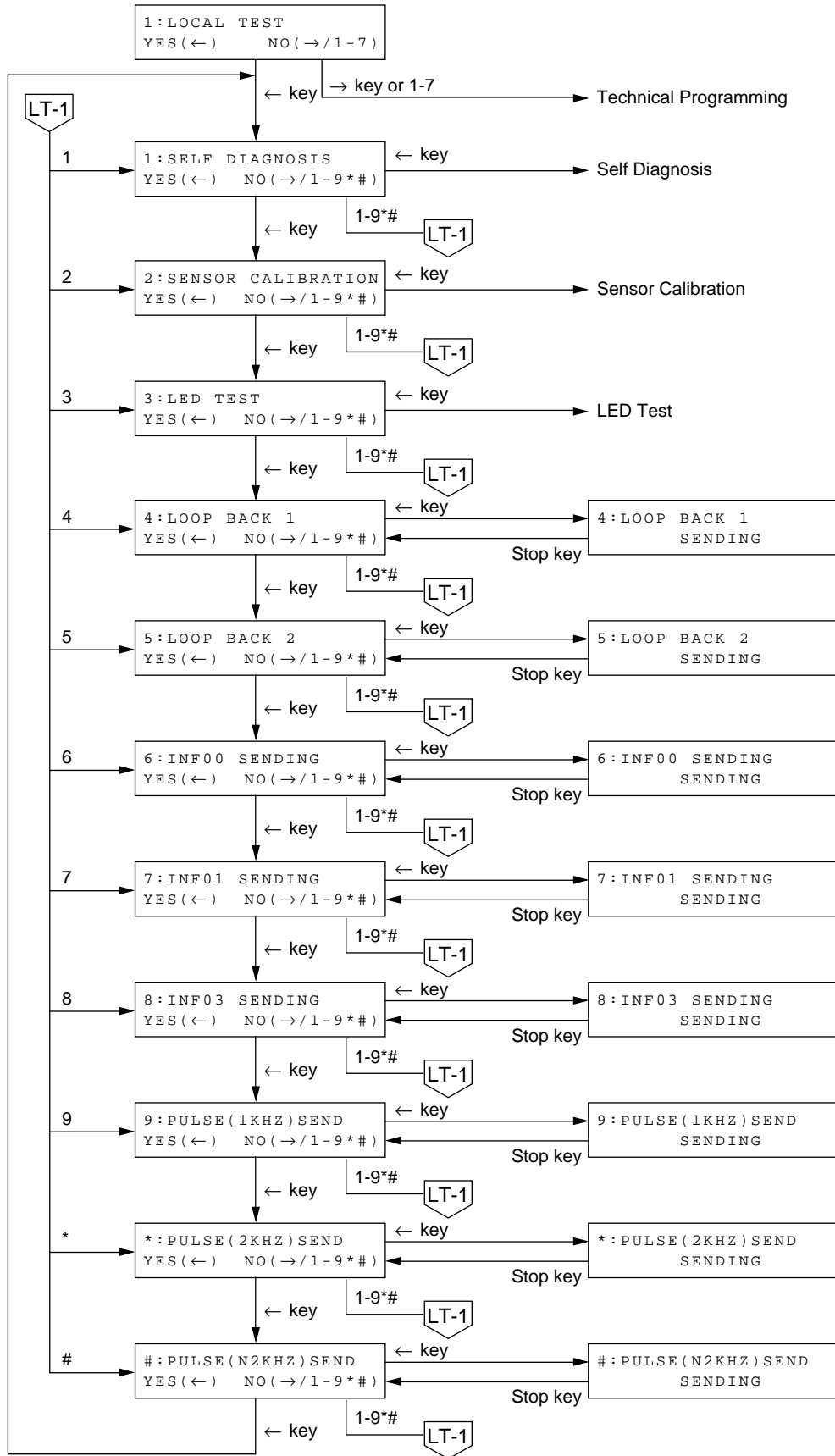
**Note:** DRUM (T) will be used to know the total in-use life of the machine.

## 6.5 Local Test

### 6.5.1 When G4 option board is not installed.



6.5.2 When G4 option board is installed.



- When G4 option board is installed, the following items can be selected.  
LOOP BACK 1 to PULSE (N2KHZ) send
- These tests are continued till STOP key is pressed.

## 6.6 Self-diagnosis Test

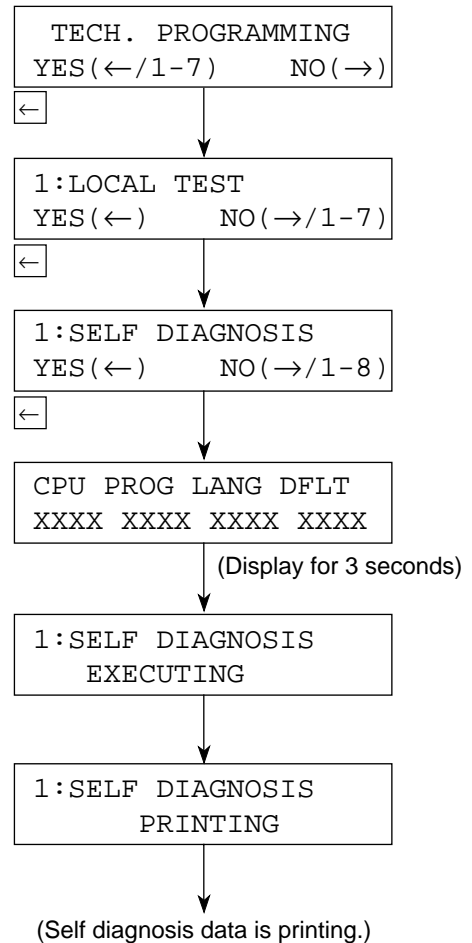
1. **Purpose**  
To check ROMs, RAMs and printing function.
2. **Procedure**

### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in the memory)
- Press  key.
- Press  key.
- Press  key to activate self-diagnosis.

(Figure 6.3.1 shows the printed data.)

### The display shows:



## 6.6.1 Self Diagnosis Report

### 6.6.1.1 Print conditions

- 1) The following self diagnosis results are always printed.
  - CPU - ROM, FLASH - PROGRAM / LANGUAGE / DEFAULT version read and hush check.
  - CPU-RAM, FLASH - RAM read/write check
  - Image processor LSI RAM check
  - Setting DEFAULT TYPE and reading clock at self diagnosis execution.
- 2) The following is printed the condition of option provided or not.
  - \*1 Printed only when 1284 option is provided. "MFG:," "MDL:," and "DES:" information is printed out of ID character strings of PnP device. Small letters can be printed. The maximum number of each of letters and characters shall be 45.
  - \*2 Printed only when ISDN option is provided.

When performing self diagnosis, ISDN board test is executed and its result (error information at power on is partially adopted) is printed.  
The print contents at ISDN error are as shown below.

```
ISDN BOARD      NG   nn
```

ISDN board details information is printed when nn = 04 or 05.

nn=01: Waiting PC loading

When turning on power, BOOT2 signal from HOST side was in PC loading mode.

nn=02: Board faulty

When turning on power, PROGRAM HASH of ISDN board was no good.

nn=03: Board faulty

Initial sequence between boards was not executed in spite of elapse of 10 seconds after turning on power. (Status window did not obtain normal value.)

nn=04 Board faulty

Initial sequence of ISDN LSI was not executed when turning on power. (No response to command, Response no good)

nn=05: ISDN LSI faulty

ISDN LSI test function (ROM/RAM test, loop test) resulted no good.

\* Figure 6.3 shows a printed sample.

- \*4 Indicate when an I-FAX NIC option is installed.

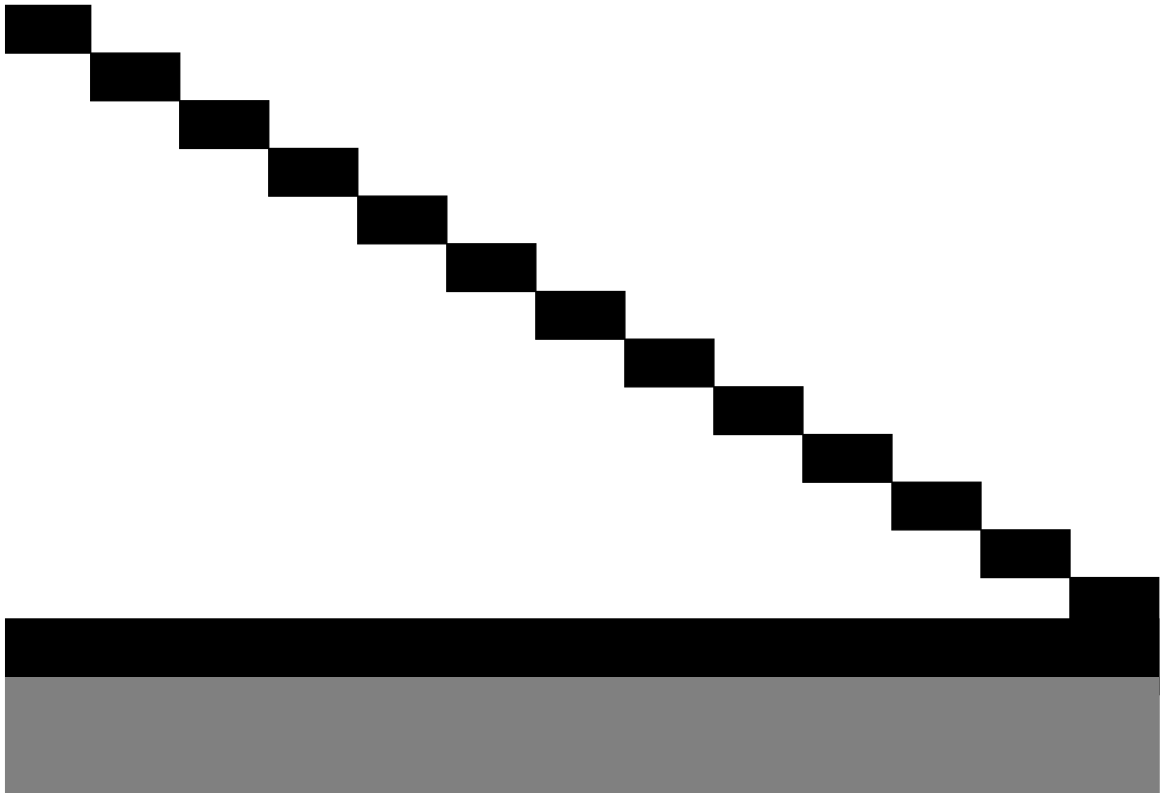
Perform an I-FAX NIC option test upon self-diagnosing and indicate the results.  
The indications upon generating an I-FAX NIC option error are listed below.

```
I - FAX NIC      NG   nn
```

- \*5 Indicate when installed with an I-FAX NIC option. (Separate versions by inserting a hyphen (-) in between.)

Indicate the F/W version for an I-FAX NIC option in six digits.  
Indicate the boot block version for an I-FAX NIC option in four digits.  
Indicate the hardware version for an I-FAX NIC option in three digits.  
Only the set value upon an I-FAX NIC option board error is to be blank.
- \*6 Indicate the MAC address when installed with an I-FAX NIC option.

Only the set value upon an I-FAX NIC option board error is to be blank.

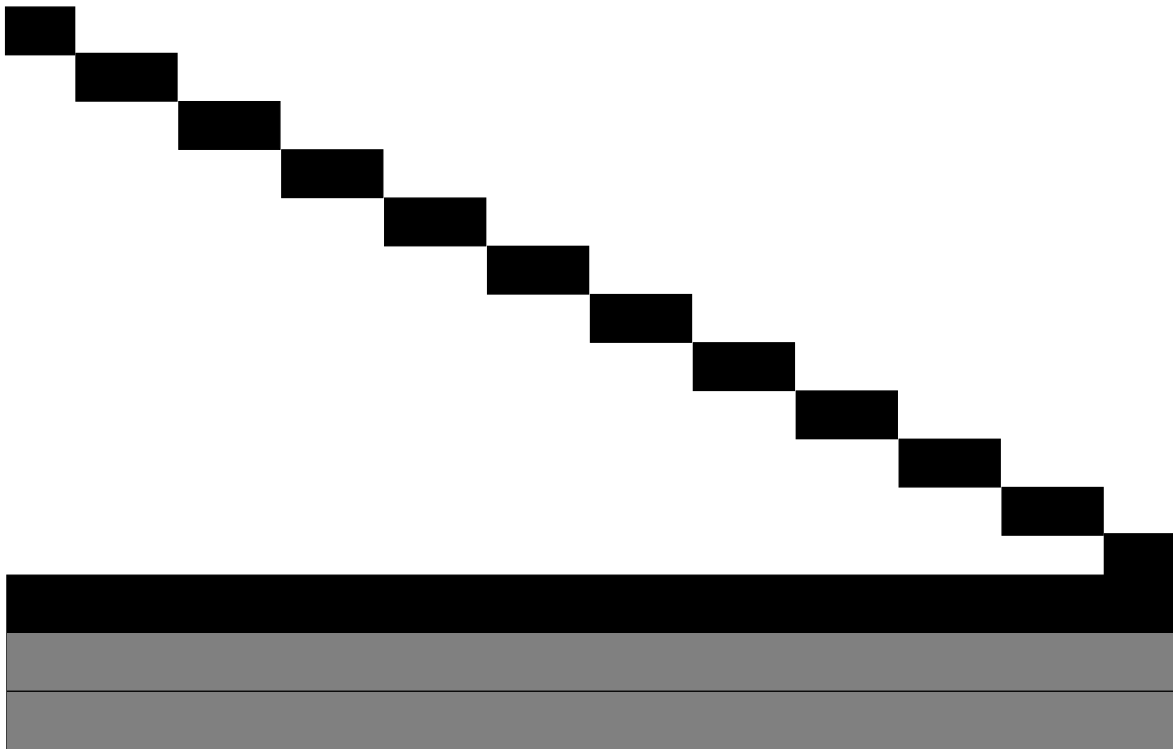


```

CPU-ROM  VERSION  aaaa
          HASH     OK   hhhh
CPU-RAM   VERSION  OK
PROGRAM   VERSION  aaaa
          HASH     OK   hhhh
LANGUAGE  VERSION  aaaa
          HASH     OK   hhhh
DEFAULT   VERSION  aaaa
          HASH     OK   hhhh
RAM1      VERSION  OK
RAM2      VERSION  OK
DEFAULT TYPE  01   03/03/2002  12:00
MODEM     VERSION  hhhh
1284 BOARD
DEVICE ID      MFG:OKI DATA CORP;      *1
                MDL:OKIFAX 4580;      *1
                DES:OKI OKIFAX 4580;   *1
OPT-RAM  4M     OK
ISDN BOARD      OK      *2
CPU-ROM  VERSION  aaaa
          HASH     OK   hhhh
CPU-RAM   VERSION  OK
PROGRAM   VERSION  aaaa
          HASH     OK   hhhh
RAM       2M     OK
DPRAM    2K     OK
    
```

a: Alphabet and digit  
h: Hexadecimal numeral  
n: Digit

**Figure 6.3.1 Self-diagnosis Data (Installed with a 1284 option and G4 option.)**



```

CPU-ROM  VERSION  aaaa
          HASH    OK   hhhh
CPU-RAM
PROGRAM  VERSION  aaaa
          HASH    OK   hhhh
LANGUAGE VERSION  aaaa
          HASH    OK   hhhh
DEFAULT  VERSION  aaaa
          HASH    OK   hhhh
RAM1
RAM2
DEFAULT  TYPE     01   11/01/2002  12:00
MODEM    VERSION  hhhh
I-FAX NIC      OK   nn
PROGRAM  VERSION  aaaaaa-nnnn-nnn
MAC ADDRESS  00.C0.26.39.23.38

OPT-RAM  4M      OK
ISDN BOARD
CPU-ROM  VERSION  aaaa
          HASH    OK   hhhh
CPU-RAM
PROGRAM  VERSION  aaaa
          HASH    OK   hhhh
RAM      2M      OK
DPRAM    2K      OK
    
```

a: Alphabet and digit  
h: Hexadecimal numeral  
n: Digit

**Figure 6.3.2 Self-diagnosis Data (Installed with a I-FAX NIC option and G4 option.)**



## 6.7 Sensor Calibration Test

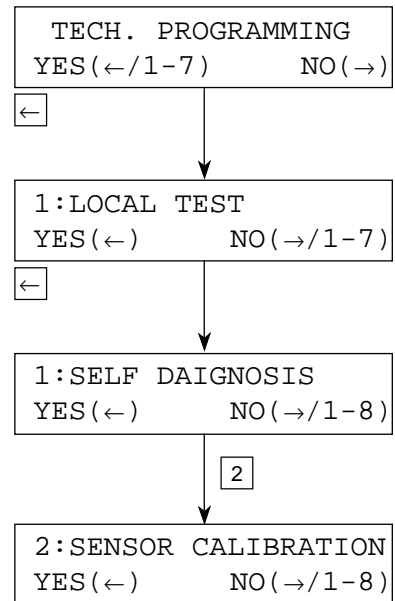
### 1. Purpose

To adjust the linearity of output levels of contact image sensor.

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in the memory)
- Press  key.
- Press  key.
- Enter "2".

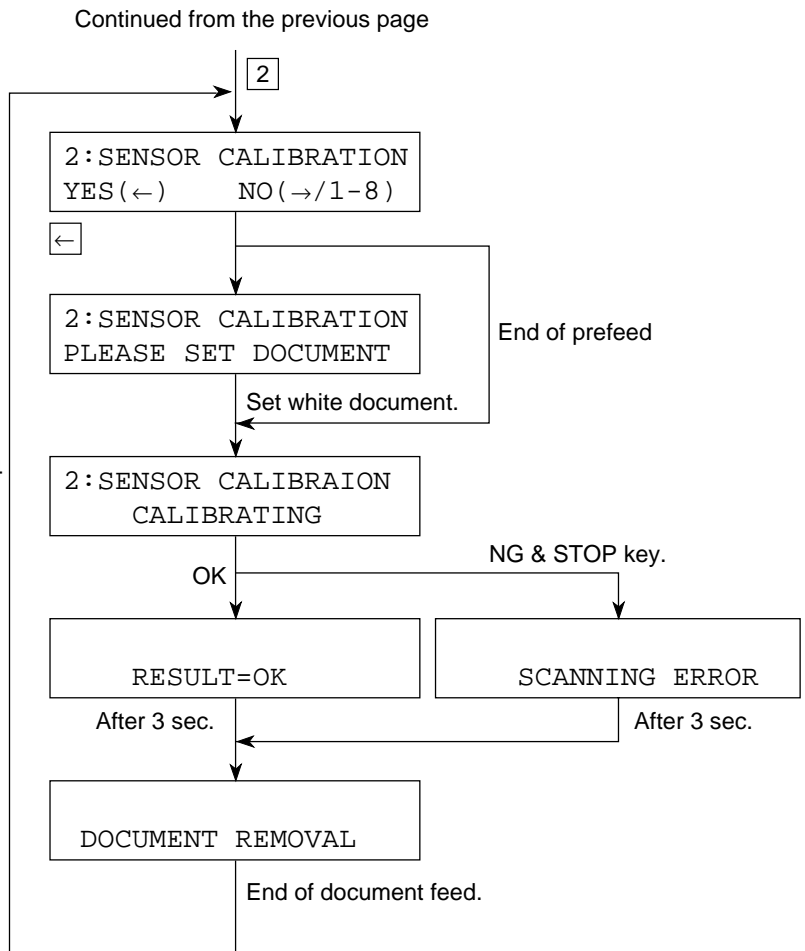
#### The display shows:



**Operations:**

**The display shows:**

- Enter "2".
- Press  key.
- Load document(s).  
For adjustment of levels, use white plain bond paper(s) of NA Letter or A4 size.
- Observe and check the document feed operation.  
Check that the followings do not occur:  
Document skew.  
Multiple document feeding.  
No feeding.



**Note:** After adjustment of levels, check the copy quality by copying test charts or documents.

## 6.8 LEDs Test

1. **Purpose**  
To check all LEDs on operation panel by lighting.
2. **Procedure**

### Operations:

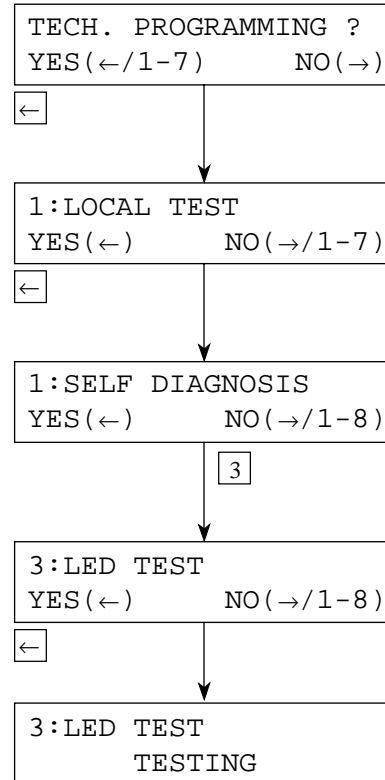
- To bring the LCD up to the desired message, press SELECT FUNCTION key once and COPY key twice in the standby mode. (In case of no message in memory)
- Press  key.
- Press  key.
- Enter "3".
- Press  key.
- Observe and check that LEDs are blinking.  
- All LEDs will be sequentially turned on for one second in the following order.

(Start)



- After the checking, press STOP key.

### The display shows:



## 6.9 Tone Send Test

### 1. Purpose

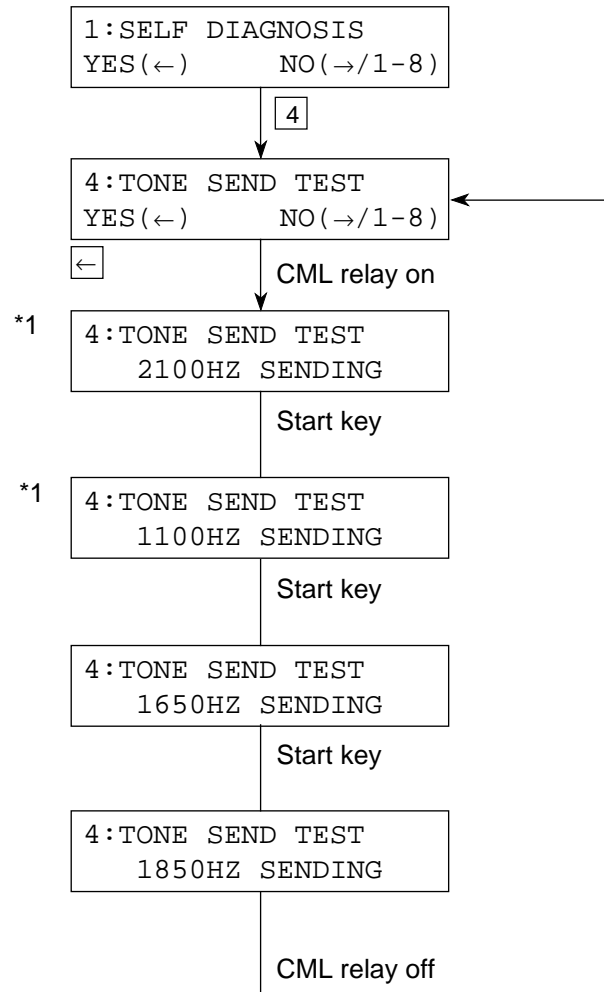
To send the G3 tonal frequencies to the line.

### 2. Procedure

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and  key twice. (In case of no message in memory)
- Enter "4".
- Press  key.
- After the checking, press STOP key or end of the transmission.

#### The display shows:



\*1: When indicating "2100Hz, 1100Hz, 1650Hz or 1850Hz SENDING", these tests are continued till START key or STOP key is pressed.

## 6.10 High-speed Modem Send Test

### 1. Purpose

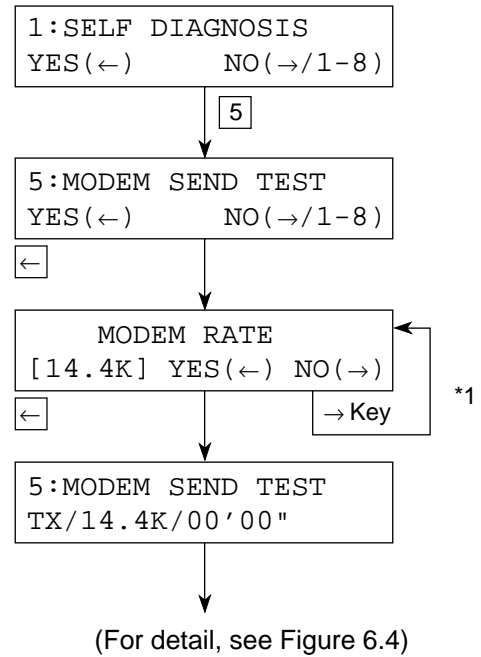
To check the telephone line quality in combination with a remote station programmed to the high-speed modem receive test mode.

### 2. Procedure

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and  key twice. (In case of no message in memory)
- Enter "5".
- Press  key.
- Set MODEM rate by  key.
- Press  key.  
All zero data will be continuously sent.
- After the test, press STOP key.

#### The display shows:



\*1: → 33.6K → 28.8K → 14.4K → 12.0K → 9.6KT (V.17) → 7.2KT (V.17) →  
← 0.3K ← 2.4K ← 4.8K ← 7.2K (V.29) ← 9.6K (V.29) ←

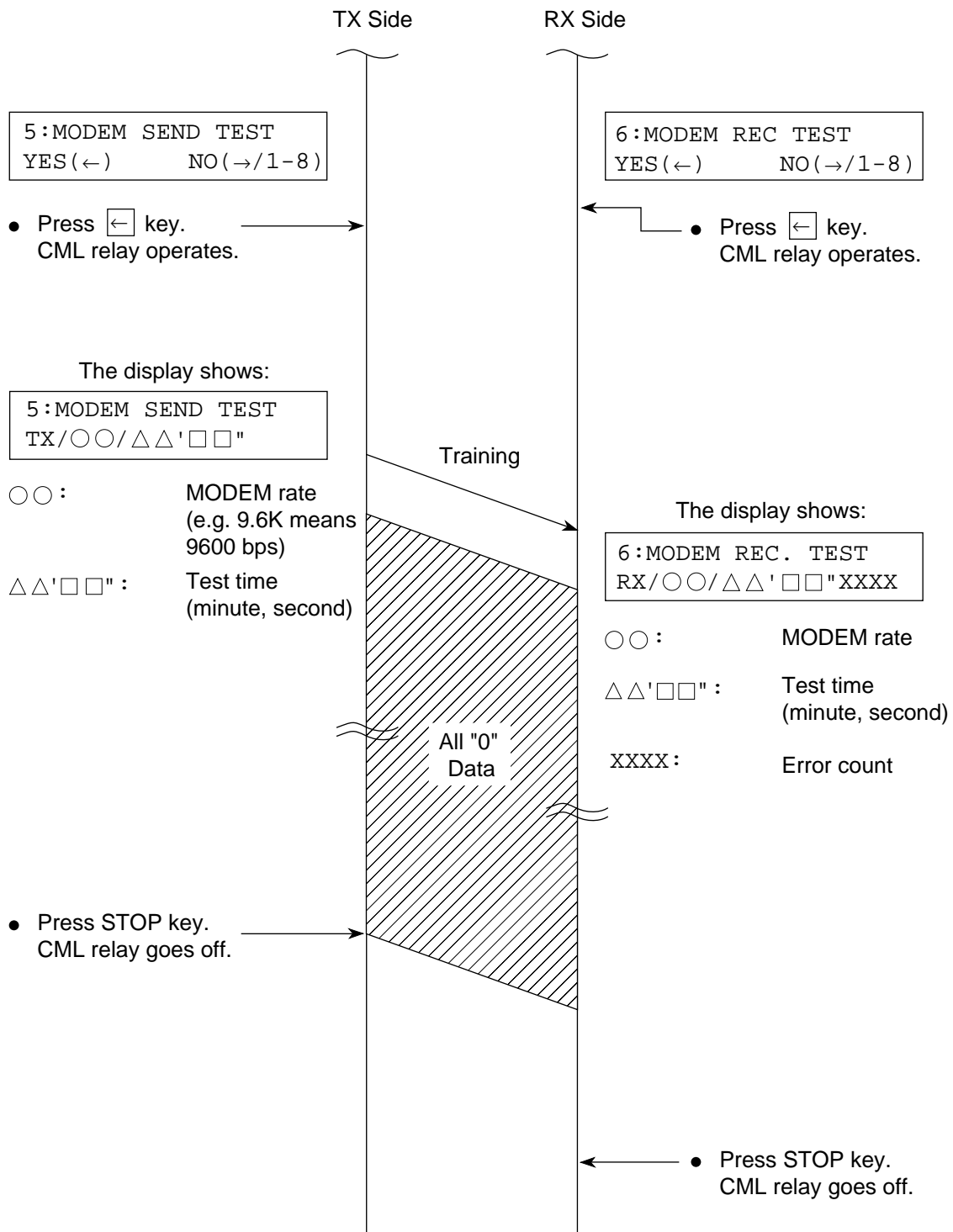


Figure 6.4 High-speed Modem Send and Receive Test

## 6.11 High-speed Modem Receive Test

### 1. Purpose

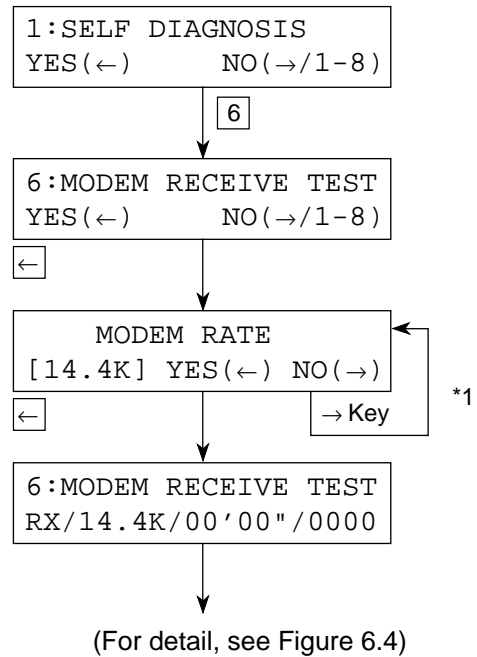
To check the telephone line quality in combination with a remote station programmed to the high-speed modem send test mode.

### 2. Procedure

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and  key twice. (In case of no message in memory)
- Enter 6.
- Press  key.
- Set MODEM rate by  key.
- Press  key.
- After the test, press STOP key.

#### The display shows:



\*1: → 14.4K → 12.0K → 9.6KT (V.17) → 7.2KT (V.17) → 9.6K (V.29) → 7.2K (V.29) → 4.8K → 2.4K →

## 6.12 MF Send Test

### 1. Purpose

To send the multi-frequencies of tone dialling to the line.

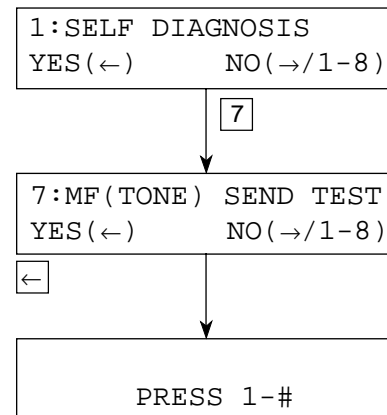
### 2. Procedure

#### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and  key twice. (In case of no message in memory)
- Enter 7.
- Press  key.
- Press 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, \* or # key.  
MF tone corresponding to the key pressed will be sent until the next key is pressed.
- After the test, press STOP key.  
Frequencies of MF tones are as follows:
 

|   |                |
|---|----------------|
| 1 | 697 Hz/1209 Hz |
| 2 | 697 Hz/1366 Hz |
| 3 | 697 Hz/1477 Hz |
| 4 | 770 Hz/1209 Hz |
| 5 | 770 Hz/1366 Hz |
| 6 | 770 Hz/1477 Hz |
| 7 | 852 Hz/1209 Hz |
| 8 | 852 Hz/1366 Hz |
| 9 | 852 Hz/1477 Hz |
| 0 | 941 Hz/1366 Hz |
| * | 941 Hz/1209 Hz |
| # | 941 Hz/1477 Hz |

#### The display shows:





### 6.13 Tone (TEL/FAX)

#### 1. Purpose

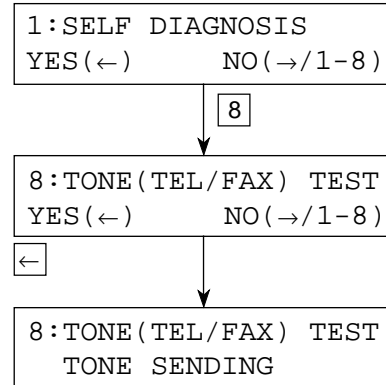
To check the pseudo-ring back tone of TEL/FAX automatic switching.

#### 2. Procedure

##### Operations:

- To bring the LCD up to the desired message, press SELECT FUNCTION key once, COPY key twice and  key twice. (In case of no message in memory)
- Enter 8.
- Press  key.
- After the test, press STOP key.

##### The display shows:



## 6.14 Protocol Dump Data Printing

### 1. Purpose

To analyze the transmitted/received G3 protocol signals.

### 2. Procedure

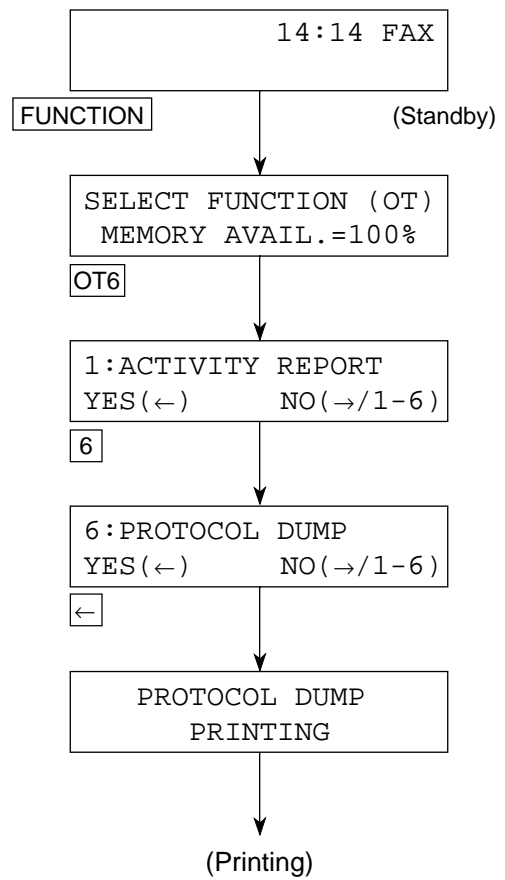
- Manual print-out of the last communication.

(a) Manual print-out

#### Operations:

- Press SELECT FUNCTION key, provided that the service bit is ON.
- Press one-touch key No.6
- Enter 6.
- Press  key.

#### The display shows:



### 6.14.1 G3 Protocol Dump

**Purpose:**

To allow the serviceman to obtain a list of protocol signals transferred between the transmitter and receiver.

**Print conditions:**

- Modem trace information for each TX/RX is printed.
- "00" is printed always since the received SID on the 2nd page is invalid.

**Method:**

The report will be manually printed out for maintenance purpose. If the previous communication is G3, G3 communication protocol dump is printed out. If it is G4, the G4 communication protocol dump is printed.

1. Title of the report
2. Date and time when the report was printed
3. Sender ID
4. Date of communication
5. Time of communication
6. One message transmission/reception time
7. Identification of remote station
  - CSI/TSI, Personal ID/or telephone number
8. Mode of transmission/reception according to ITU-T designation
9. Total number of pages in communication
10. Identification of the result of the communication
11. Service code
12. TX: DIS/DTC/DCS/NSF/NSS/NSC
13. Transmitted telephone number
14. Transmitted SEP/SUB
15. Transmitted SID
16. Common information of ITU-T V.34 TX/RX
17. Modem trace
18. RX: DIS/DTC/DCS/NSF/NSS/NSC (page 2)
19. Received telephone number
20. Received SEP/SUB (page 2)
21. Received SID (page 2)
22. Common information of ITU-T V.34 TX/RX (page 2)

G3 Protocol Dump Image

PROTOCOL DUMP P1

12/24/2002 19:00  
ID=OKI TAKASAKI

| DATE  | TIME  | S,R-TIME | DISTANT STATION ID       | MODE | PAGES | RESULT  |
|-------|-------|----------|--------------------------|------|-------|---------|
| 12/24 | 18:56 | 00'33"   | 123456789012345678901234 | TX   | 002   | OK 0000 |

```

FCF
TX
      NSS      PPS_MPS  PPS_EOP   DCN
RX NSF DIS    CFR      MCF      MCF
TX
RX
TX
RX
TX
RX

```

TRANSMITTED FRAME

```

DIS
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DTC
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
DIS
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
NSF
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
NSS
FF C8 C4 00 00 84 80 30 40 E4 10 40 B8 39 20 0C 0C 0C 0C 30 82 4A AA 82 42 92 12 CA 04 92 D2 F2
80 40 80 10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
NSC
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
CSI/CIG/TSI
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
SEP/SUB
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
SID
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
V34
CM          JM
00 00 00 00    00 00 00 00

```

```

SYMBOL RATE(SPS)      =
DATA SIGNALLING RATE(BPS) =

```

```

MODEM TRACE
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

Figure 6.5 (1/2) Protocol Dump Report (G3)

# PROTOCOL DUMP P2

12/24/2002 19:00  
ID=OKI TAKASAKI

RECEIVED FRAME

DIS  
FF C8 01 00 73 17 22 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
DTC  
00  
DCS  
00  
NSF  
FF C0 04 00 00 84 80 08 40 F4 10 40 F9 7D 20 0C 0C 0C 0C 90 F2 52 72 F2 12 04 92 D2 F2 80 F0 80  
40 80 50 00  
00  
00 00 00 00  
NSS  
00  
00  
00  
00 00 00 00  
NSC  
00  
00  
00  
00 00 00 00  
CSI/CIG/TSI  
00  
SEP/SUB  
00  
SID  
00  
V34  
CM JM  
00 00 00 00 00 00 00 00 00

Figure 6.5 (2/2) Protocol Dump Report (G3)

## 6.14.2 G4 Protocol Dump

**Purpose:**

To allow the serviceman to obtain a list of protocol signals transmitter and receiver.

**Method:**

The report will be manually printed out for maintenance purpose.

If it is G4, the G4 communication protocol dump is printed out.

1. Title of the report
2. Date and time when the report was printed
3. Sender ID
4. Date of communication
5. Time of communication
6. One message transmission/reception time
7. Identification of remote station
8. Mode of transmission/reception according to ITU-T designation
9. Total number of pages in communication
10. Identification of the result of the communication
11. Service code
12. D channel
13. B channel
14. COMMN MODE
15. COMMN SPEED
16. FLOW CONTROL PARAM.
17. TID
18. SETUP
19. DISC
20. CR/CN, CA/CC, CQ/CI, RQ/RI, SQ/SI (page 2)
21. TBR/TCC/TCR/TCA (page 2)
22. CSS (page 2)
23. RSSP/RSSN (page 2)
24. CDCL (page 2)
25. RDCLP (page 2)
26. CDS (page 2)
27. CDUI (page 2)

### Protocol Dump

The printing image is as follows:

## PROTOCOL DUMP P1

08/25/2002 19:00  
ID=OKI TAKASAKI

| DATA  | TIME  | S,R-TIME | DISTANT STATION ID | MODE  | PAGES | RESULT  |
|-------|-------|----------|--------------------|-------|-------|---------|
| 04/19 | 14:49 | 00'07"   | OKI SHIBAURA(6412) | TX-G4 | 02    | OK 0000 |

Dch.

|    |        |           |       |       |       |
|----|--------|-----------|-------|-------|-------|
| TX | SETUP  | CONN-ACK  | +Bch+ | DISC  | REL-C |
| RX | STATUS | SETUP-ACK | CONN  | +Bch+ | REL   |
| TX |        |           |       |       |       |
| RX |        |           |       |       |       |

Bch.

|    |      |    |      |     |      |       |     |       |       |       |       |       |       |       |
|----|------|----|------|-----|------|-------|-----|-------|-------|-------|-------|-------|-------|-------|
| TX | SABM | SQ | CR   | TCR | CSS  | CDCL  | CDS | CDUI  | CDPB  | CDUI  | CDPB  | CDUI  | CDPB  | CDUI  |
| RX | UA   | SF | CC   | TCA | RSSP | RDCLP |     | RDPBP | RDPBP | RDPBP | RDPBP | RDPBP | RDPBP | RDPBP |
| TX | CDE  | CQ | DISC |     |      |       |     |       |       |       |       |       |       |       |
| RX | RDEP | CF | UA   |     |      |       |     |       |       |       |       |       |       |       |
| TX |      |    |      |     |      |       |     |       |       |       |       |       |       |       |
| RX |      |    |      |     |      |       |     |       |       |       |       |       |       |       |

COMMN MODE  
T.90

COMMN SPEED  
64 kbps

FLOW CONTROL PA RAM.  
2048(SPS)/7(SWS)/2048(RPS)/7(RWS)

TID  
081-0273242117 =OKITAKASAKI

SETUP

```

08 01 05 05 04 02 88 90 6C 02 00 80 70 0B 80 30 32 37 33 32 38 30 30 30 31 7C 03 88 90 A9 7D 02
91 A1 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

DISC  
45 16

Figure 6.7 (1/2) Protocol Dump P1 (G4)





## 6.15 System Reset

### 1. Purpose

To clear or initialize the following data:

- (a) Location data
- (b) Configuration data (default)

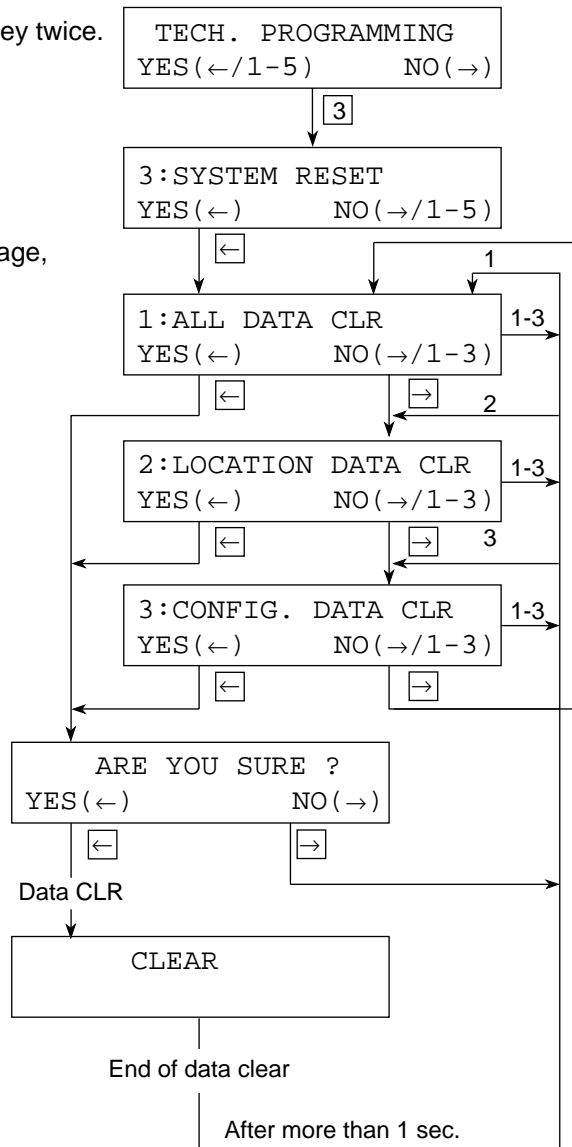
### 2. Procedure

#### Operations:

- Press SELECT FUNCTION key, COPY key twice.  
(In case of no message in the memory)
- Enter 3.
- To bring the LCD up to the desired message, press  key and  key.

**Note:** ALL DATA CLEAR is to clear of initialize (a) and (b).

#### The display shows:



## 6.16 Service Codes

- 1) The service code can be printed on Activity Report to recognize the result of each communication.
- 2) The activity report indicates the code "0000", should a communication terminates on normal status as a service code.
- 3) The activity report indicates one of the codes of "90XX", should a communication terminates on abnormal status, as an error code.
- 4) Besides the above codes of "90XX", the following codes are prepared for identifying an abnormal status in details.

|        |   |
|--------|---|
| -21XX: | For error codes in Group 3 transmission phase B |
| -29XX: | For error codes in Group 3 reception phase B    |
| -39XX: | For error codes in Group 3 reception phase C    |
| -41XX: | For error codes in Group 3 transmission phase D |
| -49XX: | For error codes in Group 3 reception phase D    |
| -90XX: | Common error codes                              |
| -AEXX: | ISDN Common error codes                         |
| -BBXX: | ISDN Dch layer 2                                |
| -BAXX: | ISDN Dch layer 3                                |
| -BCXX: | ISDN Bch layer 2                                |
| -B2XX: | ISDN Bch layer 3                                |
| -B7XX: | ISDN Bch layer 4                                |
| -B9XX: | ISDN Bch layer 5                                |
| -B8XX: | ISDN Bch layer 6                                |

## 6.16.1 G3 Service Code List

Table 6.3 (1/3) Service Codes List

| Code | Description  |
|------|--|
| 0000 | Successful end of communication.   |
| 1080 | STOP key has been pressed while calling a remote fax.  |
| 10A2 | Busy tone detected.  |
| 14C0 | Dial tone not detected.  |
| 14C1 | Line current not detected.   |
| 14C2 | Calling-and-waiting for line connection time out.  |
| 14C3 | Dialling limit time out.   |
| 14D0 | DTMF tone "D" is received from the Fax2Net Server.   |
| 14D1 | Wait time out upon DTMF tone "A" is not received from the Fax2Net Server.  |
| 14D2 | Wait time out upon DTMF tone "B" or "D" is not received from the Fax2Net Server.   |
| 21A0 | Received signal other than DIS/DTC.  |
| 21A1 | Contents of received DIS/DTC are faulty.   |
| 21A3 | Each time there is no response from the receiver for sending TCF three times.  |
| 21A4 | TCF fall back is not possible.   |
| 21A5 | Received signal other than the desired signal in response to sending TCF.  |
| 21B0 | Transmitter tried to transmit by confidential transmission function but the remote fax has not the capability of confidential reception. |
| 21B1 | Transmitter tried to transmit by Broadcast Initiate function but the remote fax has not the broadcast capability.                        |
| 21C0 | In Closed Network setting, TSI/CIG/CSI is either not received or, if received, it is not authorized one.                                 |
| 21E0 | Contents of CM/JM are faulty at transmission side.   |
| 21E1 | Phase 2 time out at transmission side.   |
| 21E2 | Phase 3 time out at transmission side.   |
| 21E3 | Training time out of phase B control channel at transmission side.   |
| 29B6 | In Confidential Reception, the mail box specified by transmitter is not set up and open.   |
| 29B7 | In Relay Broadcast Reception, the specified group number is erroneous.   |

**Table 6.3 (2/3) Service Codes List**

| Code | Description  |
|------|--|
| 29C1 | In closed Network setting, TSI/CSI is either not received or, if received, it is not authorized one. |
| 29E0 | Contents of CM/JM are faulty at receive side.  |
| 29E1 | Phase 2 time out at receive side.  |
| 29E2 | Phase 3 time out at receive side.  |
| 29E3 | Training time out of phase B control channel at receive side.  |
| 29F1 | In Relay Broadcast Reception, the relay password is unmatched.                                       |
| 39A0 | The number of continuous-error lines have exceeded the specified limit.                              |
| 39A1 | The number of random-error lines have exceeded the specified limit.                                  |
| 39B0 | Memory Overflow has occurred while receiving in memory.  |
| 39B1 | Memory Overflow occurred during Confidential Reception.  |
| 39B2 | Memory overflow occurred during Relay Broadcast Reception.   |
| 39C0 | DECODER hardware error. (cannot reproduce picture)   |
| 39C1 | DECODER hardware error. (cannot detect end of picture)   |
| 41A0 | There was no response each time in response to the three post commands.                              |
| 41A6 | Received signal other than the desired signal in response to the post command.                       |
| 41A9 | Fall back in Phase C is not possible.  |
| 41C8 | T5 time out.   |
| 41CE | Received negative signal in response to the post command.  |
| 41E0 | Control channel data. Time out in Phase D.   |
| 49CC | Received signal other than the desired signal in response to RNR.                                    |
| 49CD | Command not received in response to RNR.   |
| 49CF | In Relay Broadcast Reception, reception is interrupted due to defective image quality.               |
| 49E0 | Data time out of   |
| 49E1 | Fall back in Phase C is not possible.  |
| 60A0 | Broadcast completed.   |
| 6803 | DCN received in response to NSF/DIS without sending a single picture.                                |
| 9080 | Pressed STOP key.  |
| 9081 | T1 time out.   |
| 9082 | T2 time out.   |

**Table 6.3 (3/3) Service Codes List**

| Code | Description   |
|------|---|
| 9083 | T3 time out.  |
| 9084 | No recording paper.   |
| 9087 | Document jam.   |
| 9088 | 60-minute or 70-minute time out.  |
| 9089 | Document length has exceeded its maximum limit.                         |
| 908E | Recording paper jam.  |
| 9090 | Received DCN.   |
| 909D | Telephone number to be called to the Fax2Net is the wrong number.       |
| 90B1 | Picture memory hash error.  |
| 90C1 | Document removed prior to transmission.                                 |
| 90C6 | Normal or error-free lines not received for 13 seconds.                 |
| 90C7 | Error frame protocol received.  |
| 90D4 | Hardware error in transmission system. (response of modem not detected) |
| 90D5 | ENCODER error. (Picture storage fault)                                  |
| 90F0 | Option (2'nd tray) error.   |
| 90F1 | Fan motor error.  |
| 90F2 | Fuser error.  |
| 90F3 | Recording paper size error.   |
| 90F4 | Cover open.   |

## 6.16.2 G4 Service Code Lists

Table 6.4 (1/3) G4 Service Code Lists

| Classification | Code                                   | Description  |
|----------------|--|--|
| Dch layer 2    | BB02                                   | LSI NG   |
|                | BB05                                   | TEI release by network   |
|                | BB06                                   | TEI verification procedure failure   |
| Dch layer 3    | BA01                                   | Unallocated (unassigned) number  |
|                | BA02                                   | No route to specified transit network  |
|                | BA03                                   | No route to destination  |
|                | BA06                                   | Channel unacceptable   |
|                | BA07                                   | Call awarded and being delivered in an established channel                             |
|                | BA10                                   | Procedure sequence error, Line disconnected during in-band procedure                   |
|                | BA11                                   | User busy  |
|                | BA12                                   | No user responding   |
|                | BA13                                   | No answer from user (user alerted)   |
|                | BA15                                   | Call rejected  |
|                | BA16                                   | Number changed   |
|                | BA1A                                   | Non-selected user clearing   |
|                | BA1B                                   | Destination out of order   |
|                | BA1C                                   | Invalid number format  |
|                | BA1D                                   | Facility rejected  |
|                | BA1E                                   | Response to STATUS-ENQUIRY   |
|                | BA1F                                   | Normal, unspecified  |
|                | BA22                                   | No circuit/channel available   |
|                | BA26                                   | Network out of order   |
|                | BA29                                   | Temporary failure  |
|                | BA2A                                   | Switching equipment congestion   |
|                | BA2B                                   | Access information discarded   |
|                | BA2C                                   | Requested circuit/channel not available  |
|                | BA2F                                   | Resources unavailable, unspecified   |
|                | BA31                                   | Quality of service unavailable   |
|                | BA32                                   | Requested facility not subscribed  |
|                | BA39                                   | Bearer capability not authorized   |
|                | BA3A                                   | Bearer capability not presently available  |
|                | BA3F                                   | Service or option not available, unspecified   |
|                | BA41                                   | Bearer capability not implemented  |
|                | BA42                                   | Channel type not implemented   |
|                | BA45                                   | Requested facility not implemented   |
|                | BA46                                   | Only restricted digital information bearer capability is available                     |
|                | BA4F                                   | Service or option not implemented, unspecified   |
|                | BA51                                   | Invalid call reference value   |
|                | BA52                                   | Identified channel does not exist  |
|                | BA53                                   | A suspended call exists, but this call identity does not                               |
|                | BA54                                   | Call identity in use   |
|                | BA55                                   | No call suspended  |
|                | BA56                                   | Call having the requested call identity has been cleared                               |
|                | BA58                                   | Incompatible destination   |
|                | BA5B                                   | Invalid transit network selection  |
|                | BA5F                                   | Invalid message, unspecified   |
|                | BA60                                   | Mandatory information element is missing   |
|                | BA61                                   | Message type non-existent or not implemented   |
|                | BA62                                   | Message not compatible with call state or message type non-existent or not implemented |
|                | BA63                                   | Information element non-existent or not implemented                                    |
| BA64           | Invalid information element contents   |  |
| BA65           | Message not compatible with call state |  |
| BA66           | Recovery on timer expiry               |  |
| BA6F           | Protocol error, unspecified            |  |
| BA7F           | Interworking, unspecified              |  |
| BB01           | CONN message wait time out             |  |
| BB07           | Reset request by network               |  |

Table 6.4 (2/3) G4 Service Code Lists

| Classification | Code   | Description  |
|----------------|--|--|
| Bch layer 2    | BC02   | N2 times time out  |
|                | BC03   | FRMR reception   |
|                | BC04   | FRMR transmission  |
|                | BC05   | The other party link disconnection   |
|                | BC08   | T3 time out  |
|                | BD01   | SABME wait time out  |
| Bch layer 3    | B201   | The other party terminal busy  |
|                | B203   | Incorrect facility request   |
|                | B205   | Network congestion   |
|                | B209   | Connection impossible (failure or absent)  |
|                | B210   | Packet that is not adaptable to status transition<br>(Packet level ready state)    |
|                | B211   | Remote procedure error   |
|                | B212   | Packet that is not adaptable to status transition<br>(DTE restart request state)   |
|                | B213   | Local procedure error  |
|                | B214   | Packet that is not adaptable to status transition (Empty state)                    |
|                | B215   | Packet that is not adaptable to status transition (CO packet wait)                 |
|                | B216   | Packet that is not adaptable to status transition (CA packet wait)                 |
|                | B217   | Packet that is not adaptable to status transition<br>(During data transmission)    |
|                | B218   | Packet that is not adaptable to status transition<br>(Outgoing/incoming collision) |
|                | B219   | Packet that is not adaptable to status transition (CQ packet)                      |
|                | B221   | Unallowable packet (Packet type not clear)   |
|                | B222   | Unallowable packet (Call by special incoming logic channel)                        |
|                | B226   | Unallowable packet (Too short packet)  |
|                | B227   | Unallowable packet (Too long packet)   |
|                | B229   | Unallowable packet<br>(Restart packet in which LCN or LCGN is not 0)               |
|                | B22A   | Unallowable packet (Packet that is not adaptable to the facility)                  |
|                | B231   | Timer time out (CA packet wait time out)   |
|                | B232   | Timer time out (CF packet wait time out)   |
|                | B233   | Timer lapsed (RR/RNR packet wait time out)   |
|                | B241   | Call setting problem (unallowable facility code)                                   |
|                | B242   | Call setting problem (unallowable facility parameter)                              |
|                | B243   | Call setting problem (incoming address is invalid)                                 |
|                | B244   | Call setting problem (outgoing address is invalid)                                 |
|                | B245   | Call setting problem (invalid facility length)                                     |
|                | B246   | Call setting problem (call termination reject)                                     |
|                | B247   | Call setting problem (No empty logic channel)                                      |
| B248           | Call setting problem (outgoing/incoming collision)     |  |
| B249           | Call setting problem (overlapped facility request)     |  |
| B24A           | Call setting problem (address length other than zero)  |  |
| B24B           | Call setting problem (facility length other than zero) |  |
| Bch layer 4    | B702   | Reception TDT length over  |
|                | B703   | TDT length negotiation unsuccessful  |
|                | B704   | Invalid block received   |
|                | B705   | Abnormal parameter received  |
|                | B706   | Illegal block received   |
|                | B707   | TCR wait time out (T0.2 T.O)   |
|                | B708   | TCA wait time out (T1.1 T.O)   |
|                | B709   | Communication interruption due to TCC reception                                    |
|                | B70A   | Communication interruption due to TBR reception                                    |

Table 6.4 (3/3) G4 Service Code Lists

| Classification | Code | Description  |
|----------------|------|--|
| Bch layer 5    | B901 | Command response reception error   |
|                | B902 | Non-implicit command response received   |
|                | B903 | Lack of essential parameter  |
|                | B904 | Invalid parameter reception  |
|                | B905 | Invalid parameter value reception  |
|                | B906 | Window size over reception   |
|                | B907 | Document reference number error  |
|                | B908 | Length illegal   |
|                | B909 | Check point error  |
|                | B90A | Unallowable document   |
| Bch layer 6    | B801 | Command response reception error   |
|                | B802 | Parameter reception error  |
|                | B803 | Negotiation unsuccessful RSSP reception  |
|                | B804 | Negotiation unsuccessful RSSN reception  |
|                | B805 | CSCC at the time when the transmission right cannot be reversed                              |
|                | B806 | CSA reception  |
|                | B809 | Error recovery time out  |
|                | B80A | Time out at the time of termination  |
|                | B80B | Close wait time out  |
|                | B80C | CSE reception before close   |
| Bch layer 7    | AE01 | Negotiation unsuccessful (requirement for communication with the other party FAX is not met) |
|                | AE02 | Negotiation unsuccessful (only the other party standard)                                     |
|                | AE03 | The other party SUD fault  |
|                | AE04 | Basic terminal function unmatched  |
|                | AE05 | Switching type unmatched   |
|                | AE06 | The other party TU fault   |



## 7. TROUBLESHOOTING AND REPAIR FOR OKIFAX 4580

### Extension cable lists

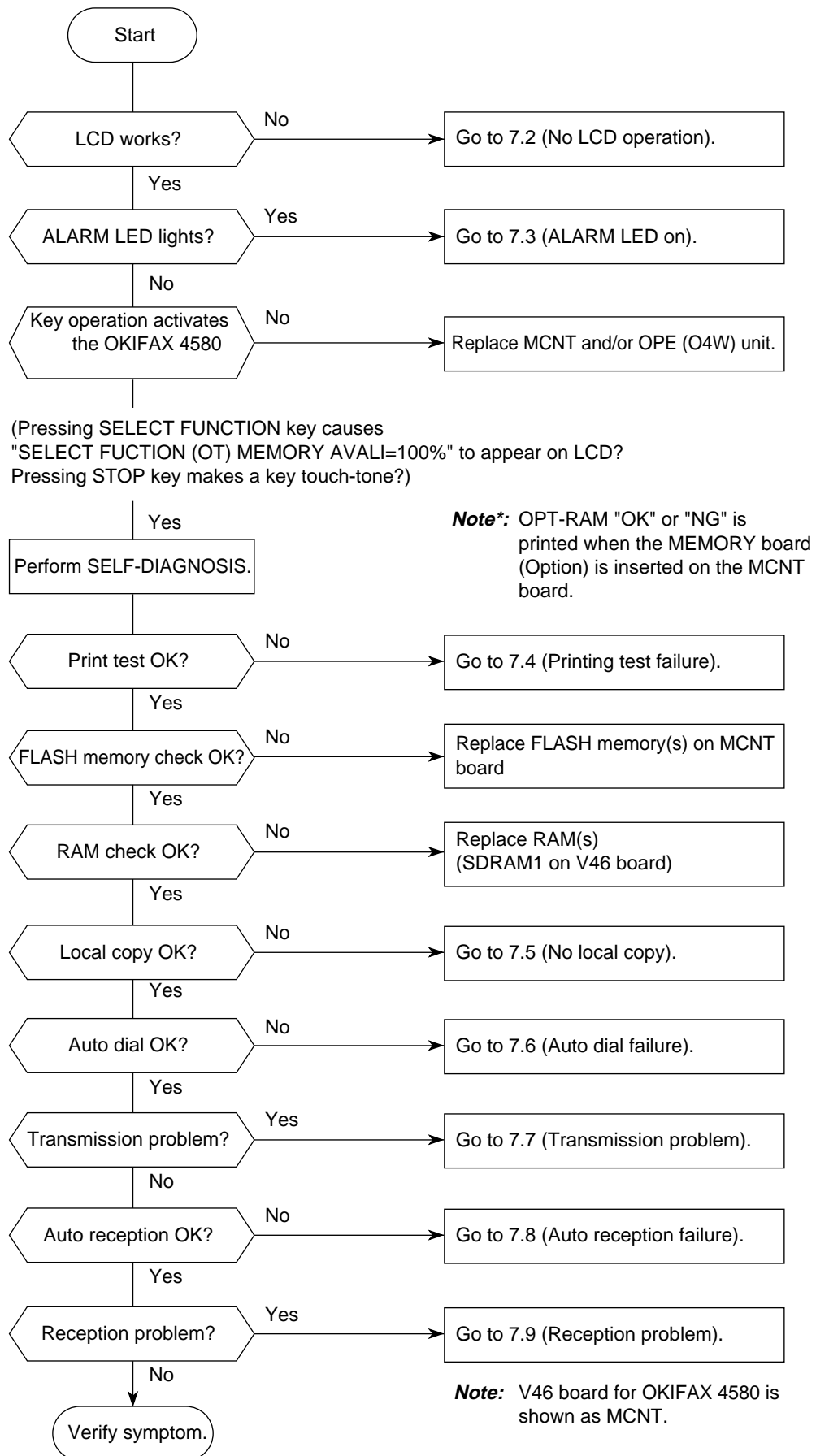
| No. | Oki Parts Number | Description                              | Remarks                      | FX-046VP |
|-----|------------------|--|------------------------------|----------|
| 1   | 4YS4111-5655P001 | Extension cable (OPE)                    |                              | ...      |
| 2   | 4YS4111-5656P001 | Extension cable (Sensor)                 |                              | ○        |
| 3   | 4YS4111-5657P001 | Extension cable (PC1, 2)                 |                              | ○        |
| 4   | 4YS4111-5658P001 | Extension cable (Speaker)                |                              | ○        |
| 5   | 4YS4111-5659P001 | Extension cable (PWU)                    |                              | ...      |
| 6   | 4YS4111-5660P001 | Extension cable (FAN)                    |                              | ...      |
| 7   | 4YS4111-5661P001 | Extension cable (S-motor)                |                              | ...      |
| 8   | 4YS4111-5662P001 | Extension cable (D-motor)                |                              | ...      |
| 9   | 4YS4111-5663P001 | Extension cable (R-motor)                |                              | ...      |
| 10  | 4YS4111-5664P001 | Extension cable (S-motor)                |                              | ○ × 2    |
| 11  | 4YS4111-5665P001 | Extension cable (D-motor)                |                              | ...      |
| 12  | 4YS4111-5666P001 | Extension cable (R-motor)                |                              | ...      |
| 13  | 4YS4111-5667P001 | Extension cable (2nd)                    |                              | ...      |
| 14  | 238A1071P0006    | SUMI card (LED head)                     |                              | ○        |
| 15  | 40331401YS       | Connection code; extension (OPE)         | OPE/MCNT                     | ○        |
| 16  | 40331501YS       | Connection code; extension (MPSU)        | MCNT/MPSU (Power)            | ○        |
| 17  | 40331602YS       | Connection code; extension (Heater)      | HEATER AC/PSU                | ○        |
| 18  | 40331801YS       | Connection code; extension (Clutch)      | CLUTCH/MCNT                  | ○        |
| 19  | 40332001YS       | Connection code; extension               | FUJI CARD: MCNT/HVPS         | ○        |
| 20  | 40332201YS       | Connection code; extension (SPSU)        | SPSU (Sub-power)/MCNT        | ...      |
| 21  | 40332301YS       | Connection code; extension (PSU)         | PSU (Power)/SPSU (Sub-power) | ...      |
| 22  | 40331901YS       | Connection code; extension (Transformer) | Transformer/SPSU (Sub-power) | ...      |
| 23  | 40780201YS       | Connection Flat (P6L)                    | MCNT/P6L                     | ○        |
| 24  | 4YS4111-5665P001 | Extension cable (D-motor)                | Applicable to S-motor        | ...      |
| 25  | 4YS4111-2491G001 | Extension cable (D/R-motor)              | Applicable to D/R-motor      | ...      |
| 26  | 238A1071P0006    | SUMI card (LED1)                         |                              | ...      |
| 27  | 238A1071P0007    | SUMI card (LED2)                         |                              | ...      |
| 28  |                  | Extension cable (3.3V)                   | PSU (3.3V)                   | ...      |

This chapter contains:

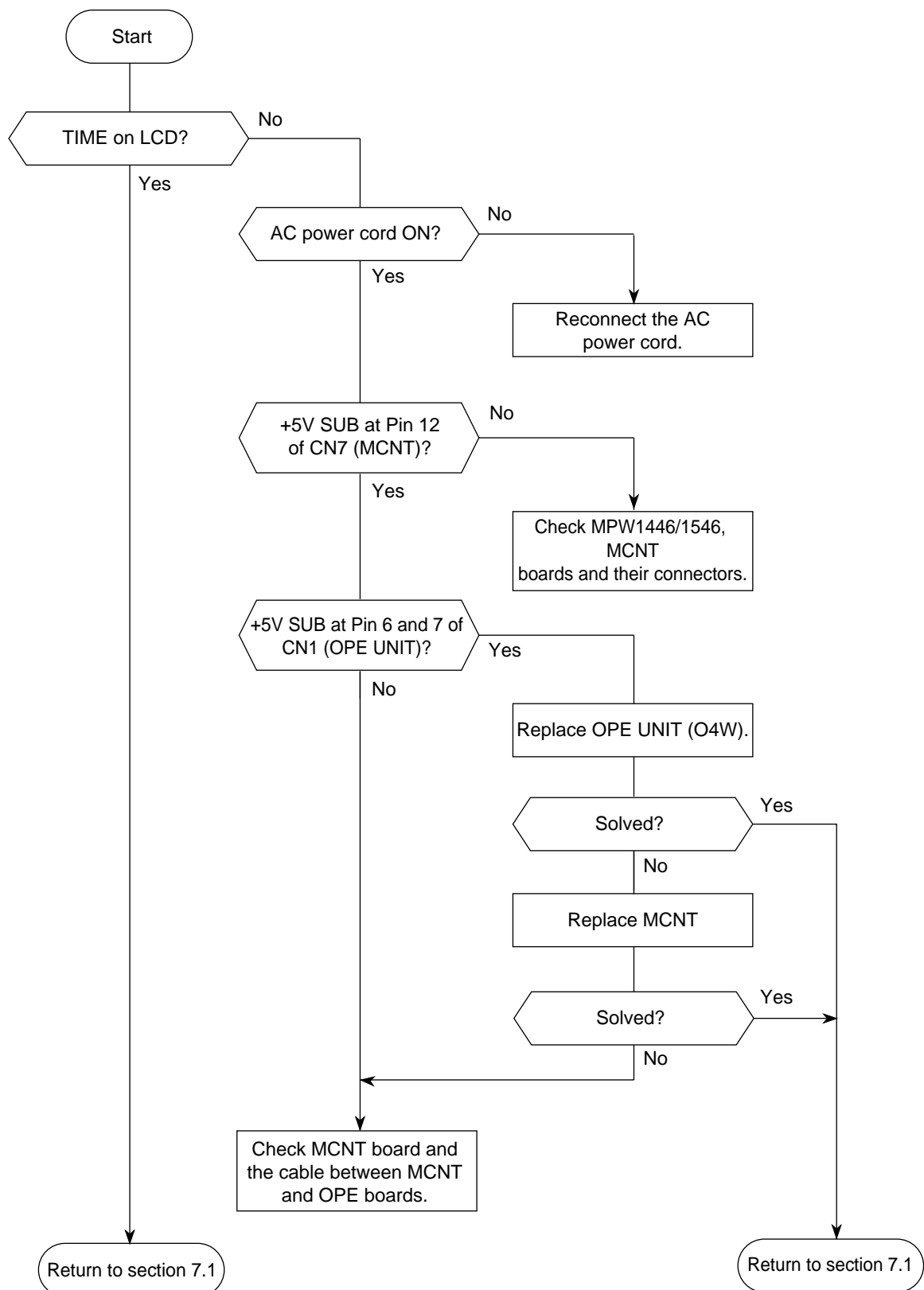
- (a) Troubleshooting flow charts related to general operations
- (b) Troubleshooting flow charts by test operations
- (c) Troubleshooting flow charts placing an emphasis on mechanical portions

| Section No. | Name of Flow Chart                 | (a)                   | (b)                   | (c)                   | Page |
|-------------|------------------------------------|-----------------------|-----------------------|-----------------------|------|
| 7.1         | Overall troubleshooting flow chart | <input type="radio"/> | <input type="radio"/> |                       | 222  |
| 7.2         | No LCD operation                   | <input type="radio"/> |                       |                       | 223  |
| 7.3         | ALARM LED on                       | <input type="radio"/> |                       |                       | 224  |
| 7.4         | Printing test failure              | <input type="radio"/> | <input type="radio"/> |                       | 225  |
| 7.5         | No local copy                      | <input type="radio"/> | <input type="radio"/> |                       | 226  |
| 7.6         | Auto dial failure                  | <input type="radio"/> |                       |                       | 227  |
| 7.7         | Transmission problem               | <input type="radio"/> |                       |                       | 228  |
| 7.8         | Auto reception failure             | <input type="radio"/> |                       |                       | 229  |
| 7.9         | Reception problem                  | <input type="radio"/> |                       |                       | 230  |
| 7.10        | Sensor calibration test            |                       | <input type="radio"/> |                       | 231  |
| 7.11        | LED test                           |                       | <input type="radio"/> |                       | 232  |
| 7.12        | Tone send test                     |                       | <input type="radio"/> |                       | 233  |
| 7.13        | High-speed modem test              |                       | <input type="radio"/> |                       | 234  |
| 7.14        | MF (Tone) send test                |                       | <input type="radio"/> |                       | 236  |
| 7.15        | Tone (TEL/FAX) send test           |                       | <input type="radio"/> |                       | 237  |
| 7.16        | No acoustic line monitor           | <input type="radio"/> |                       |                       | 238  |
| 7.17        | Power supply unit                  | <input type="radio"/> |                       |                       | 239  |
| 7.18        | No document feeding                |                       |                       | <input type="radio"/> | 239  |
| 7.19        | Multiple document feeding          |                       |                       | <input type="radio"/> | 240  |
| 7.20        | Document skew                      |                       |                       | <input type="radio"/> | 241  |
| 7.21        | Document jam                       |                       |                       | <input type="radio"/> | 243  |
| 7.22        | Printer unit                       |                       |                       |                       | 244  |

## 7.1 Overall Troubleshooting Flow Chart

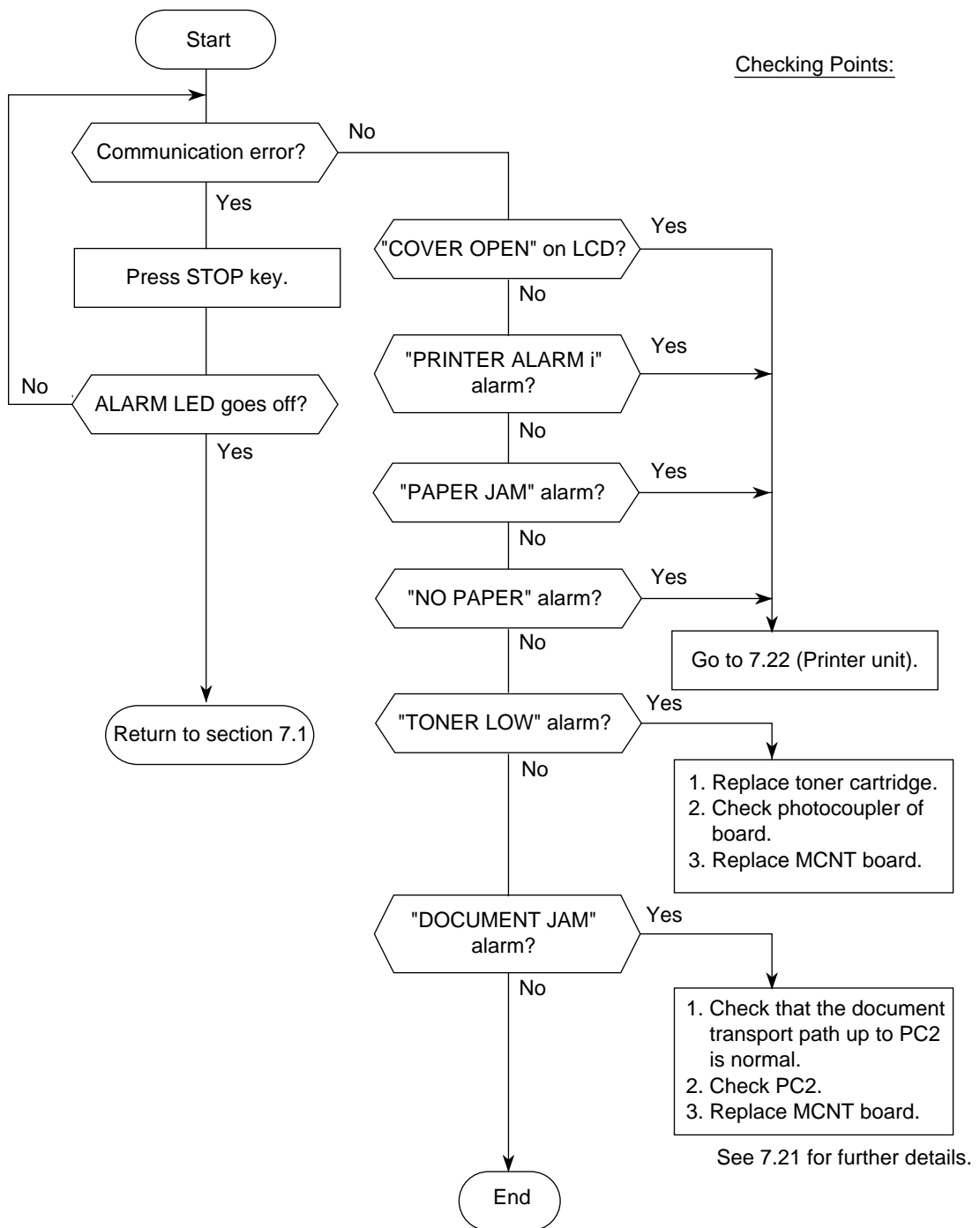


## 7.2 No LCD Operation



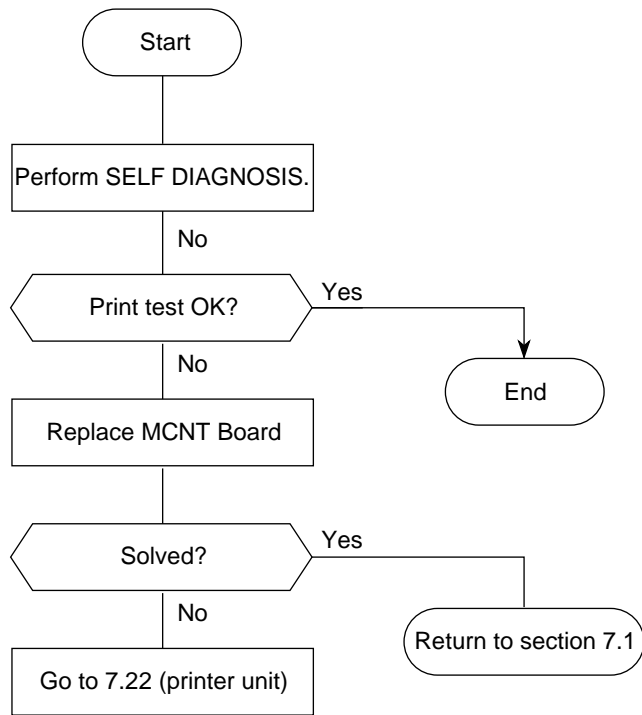
**Note:** V46 is shown as MCNT.

### 7.3 Alarm LED On

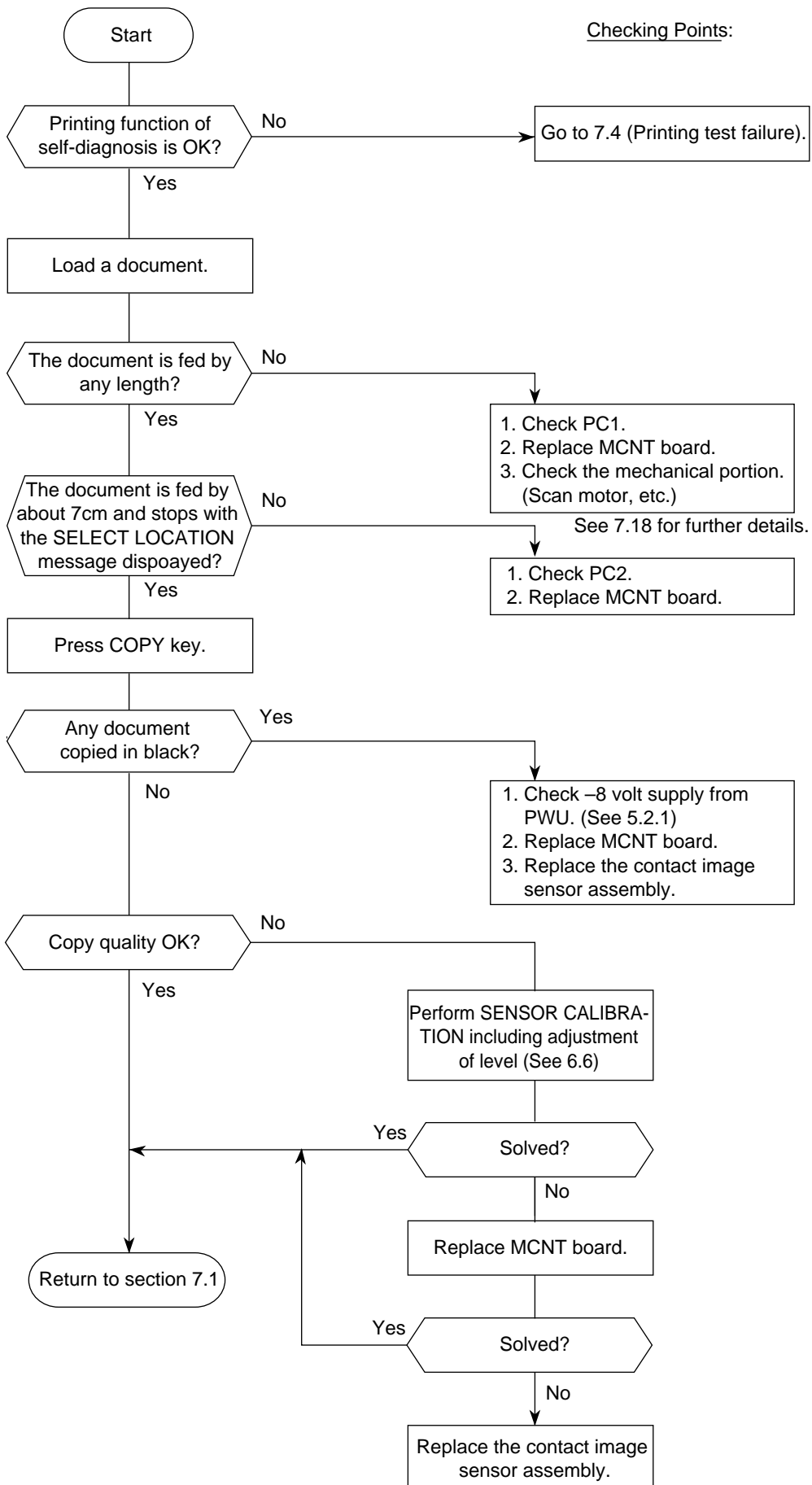


**Note\*** : "PRINTER ALARM i" will be shown as follows:  
PRINTER ALARM 2 and PRINTER ALARM 4.

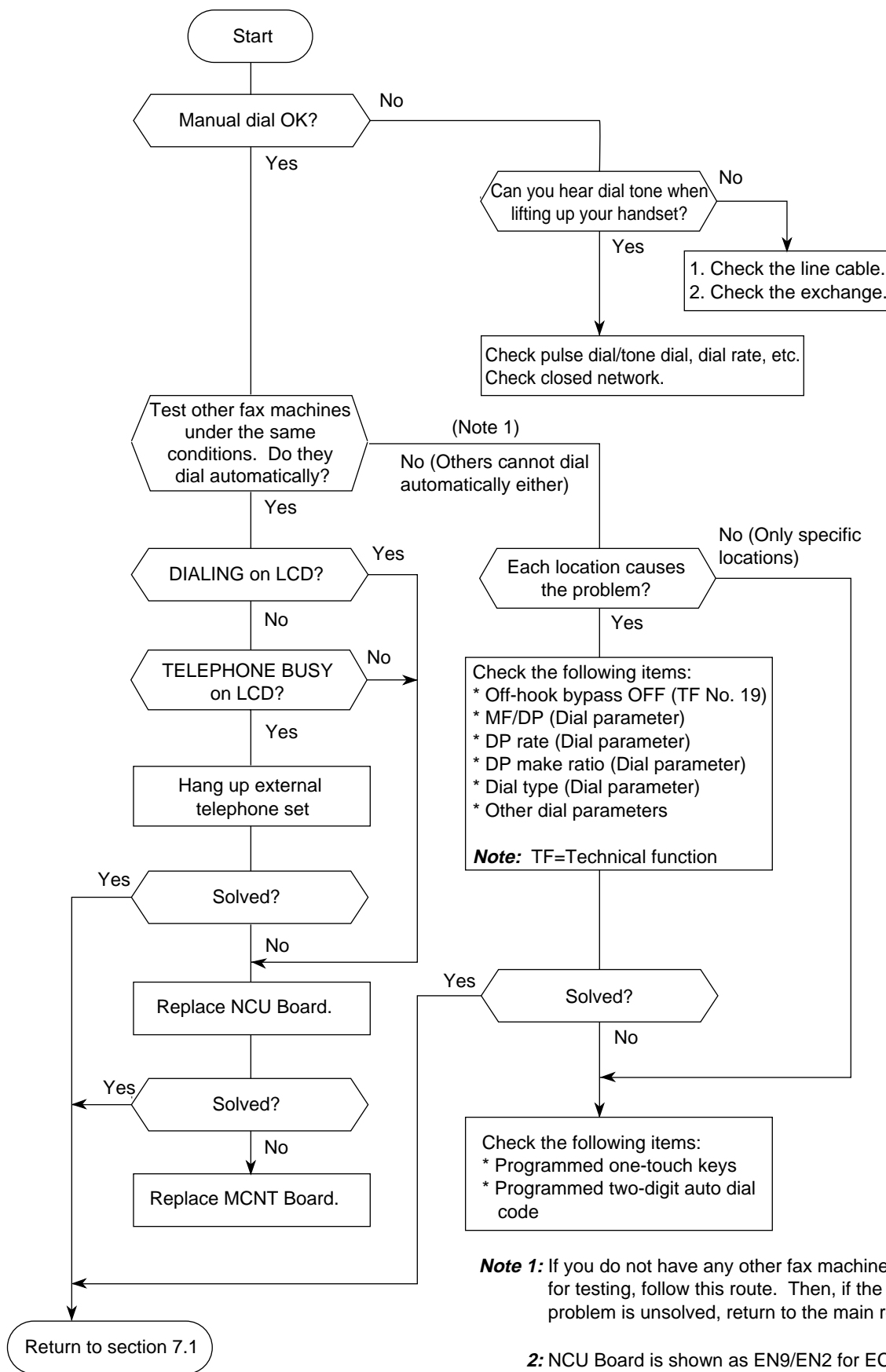
### 7.4 Printing Test Failure



### 7.5 No Local Copy



7.6 Auto Dial Failure



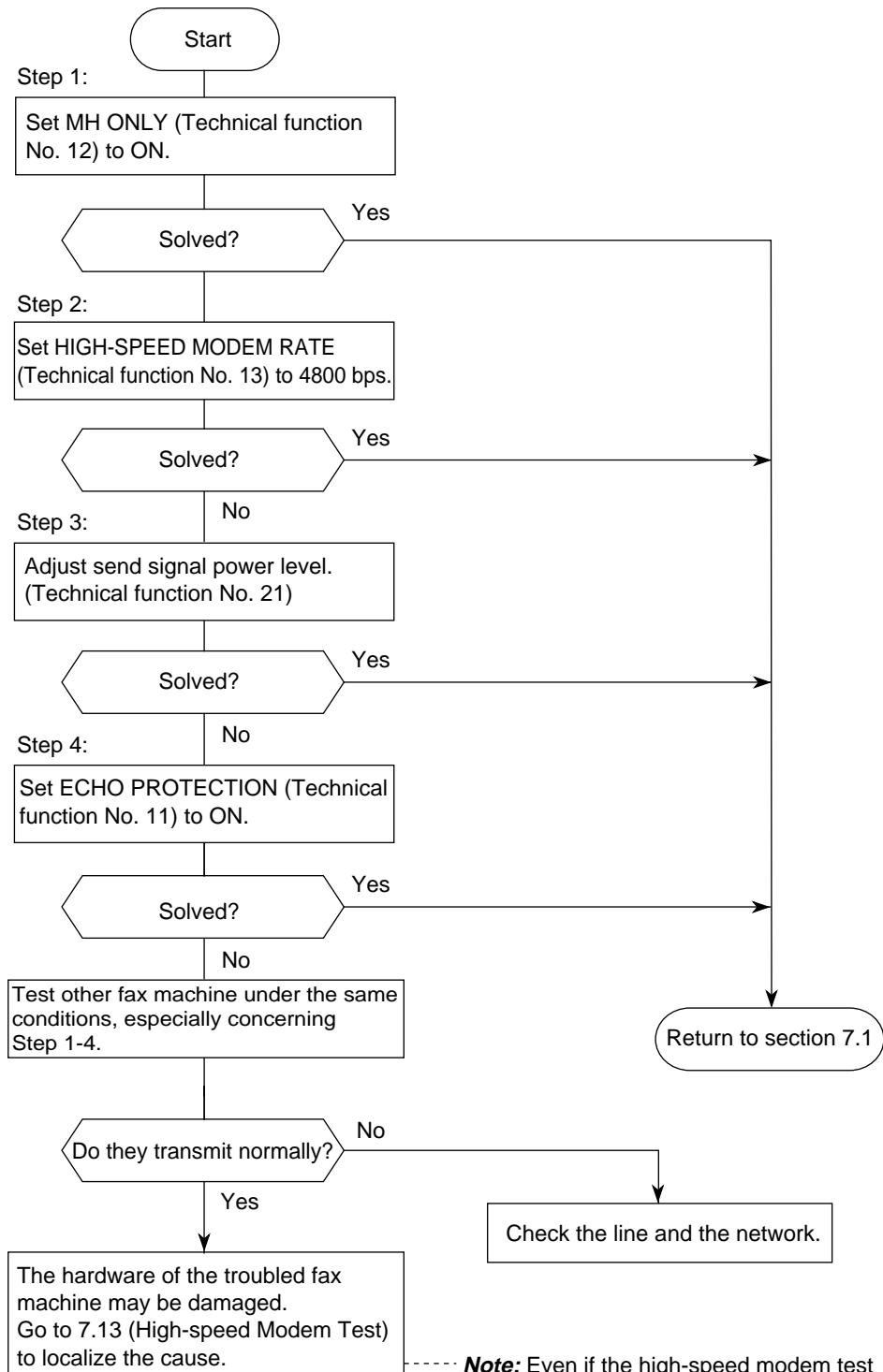
**Note 1:** If you do not have any other fax machine for testing, follow this route. Then, if the problem is unsolved, return to the main route.

**2:** NCU Board is shown as EN9/EN2 for EC countries, INU for US, Canada, Australia, New Zealand, Singapore, China, Malaysia and non-EC countries (Poland etc.)



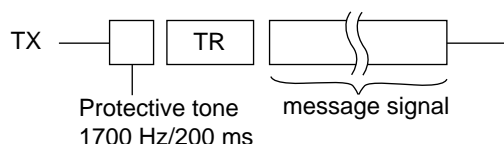
## 7.7 Transmission Problem

This section explains how to localize the cause of problems occurred after completion of connection with a remote station.

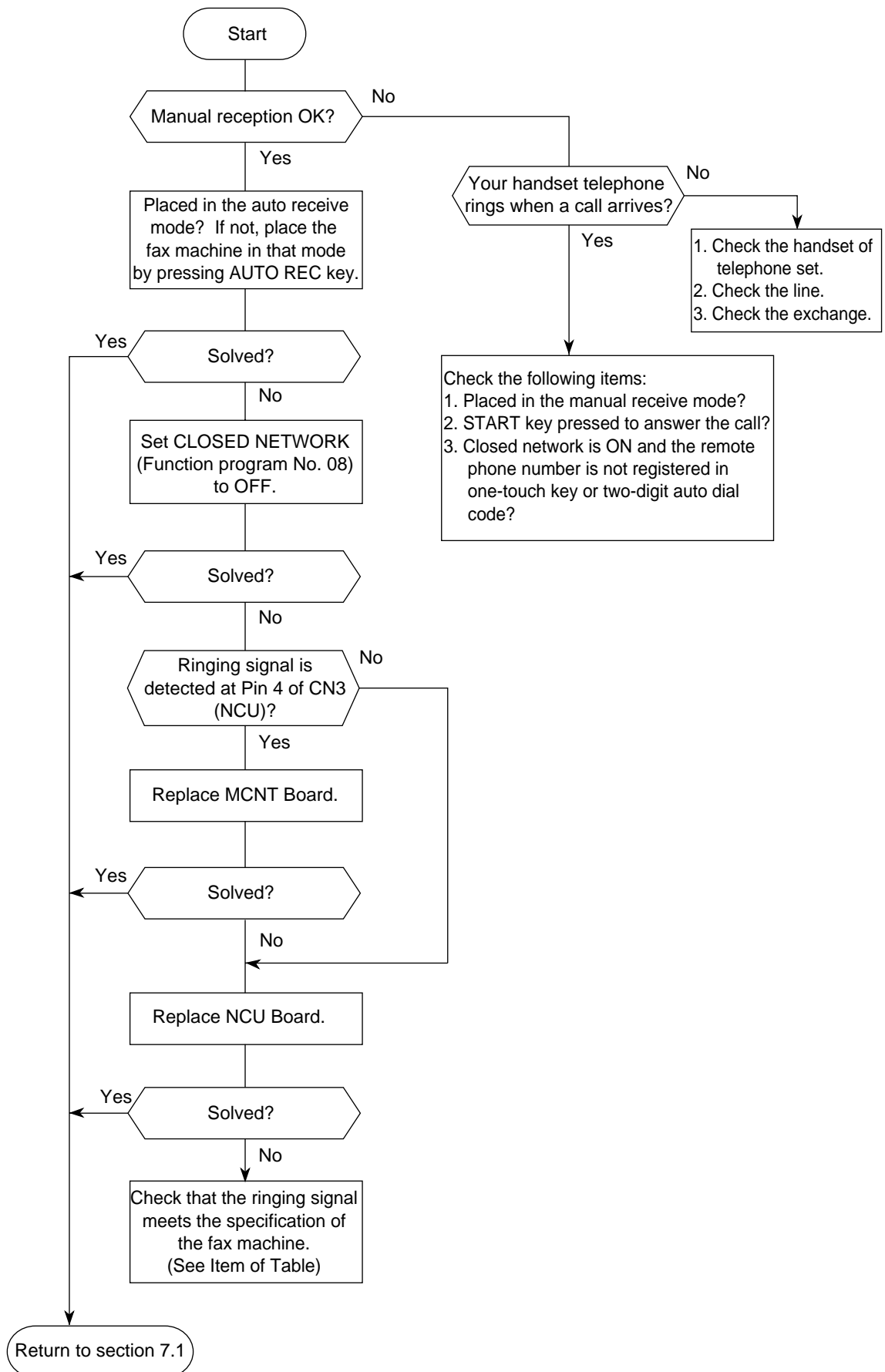


**Note:** Even if the high-speed modem test results in success, 300 bps signal route remains unchecked. In that case, the most suspected unit is MCNT Board.

Description: Protective tone is 1700 Hz/200 ms.  
This signal is added to training signal to protect the training signal against echo as follows.

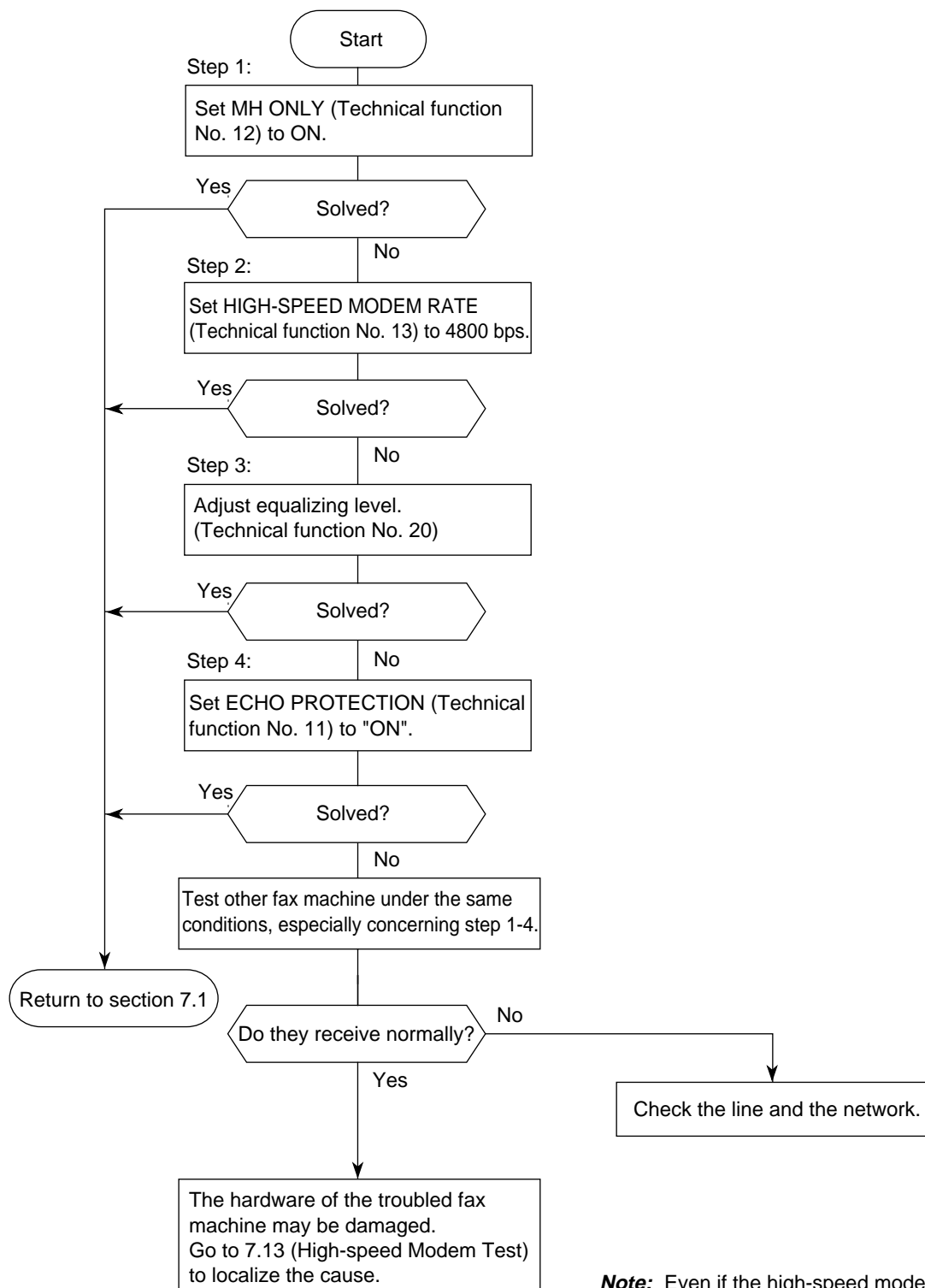


### 7.8 Auto Reception Failure



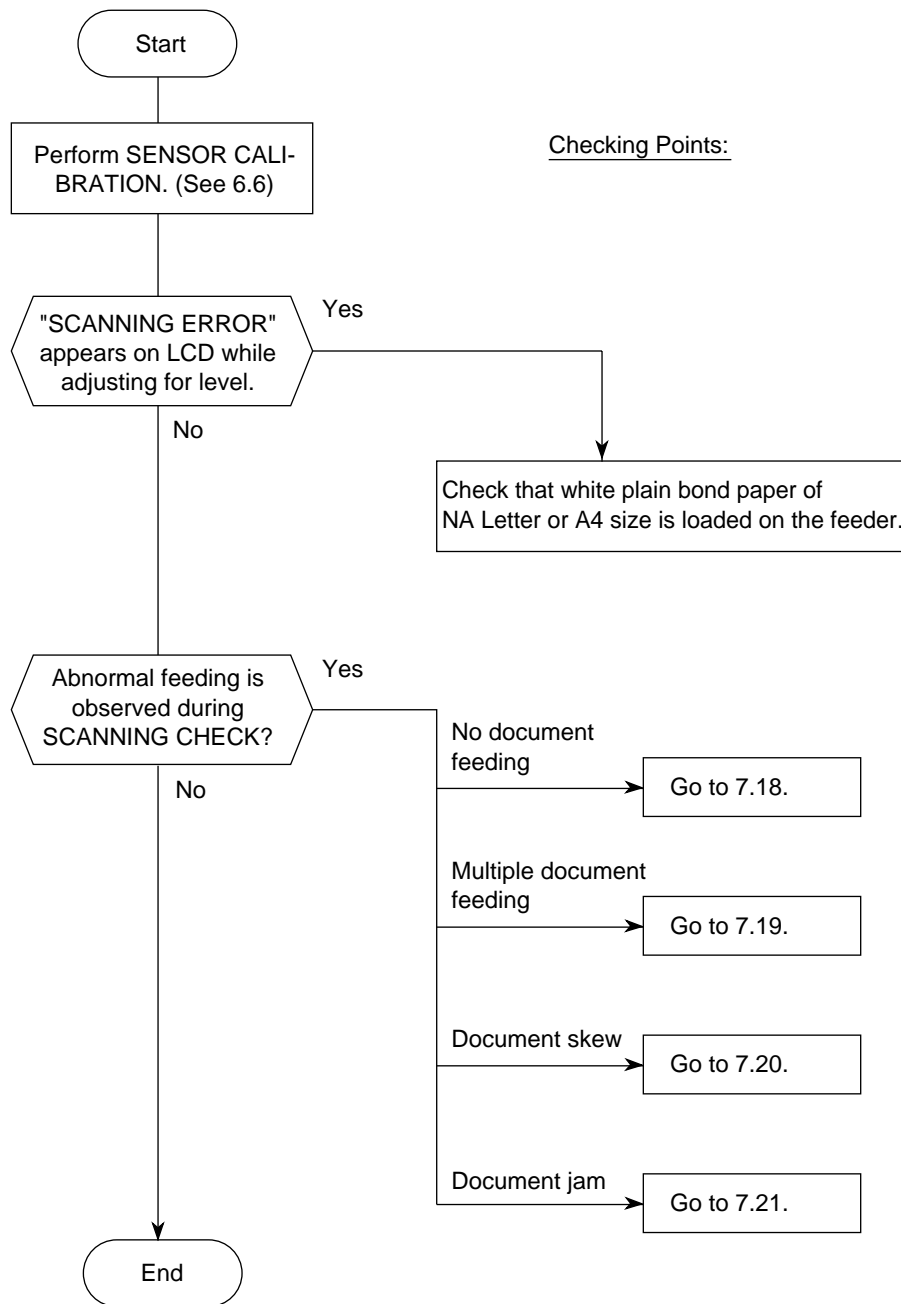
## 7.9 Reception Problem

This section explains how to localize the cause of problems occurred after completion of connection with a remote station.

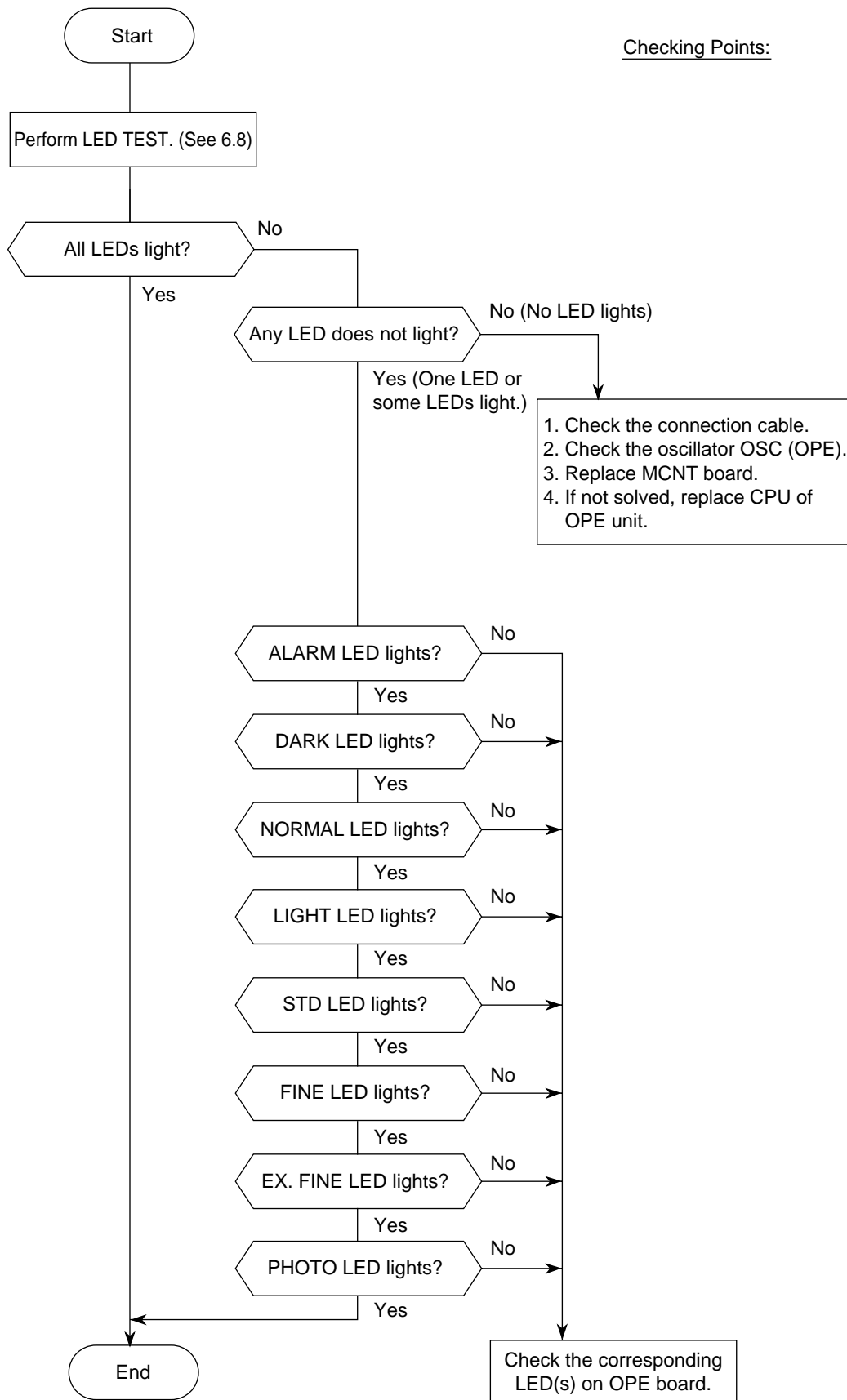


**Note:** Even if the high-speed modem test results in success, 300 bps signal route remains unchecked. In that case, the most suspected unit is MCNT board.

### 7.10 Sensor Calibration Test

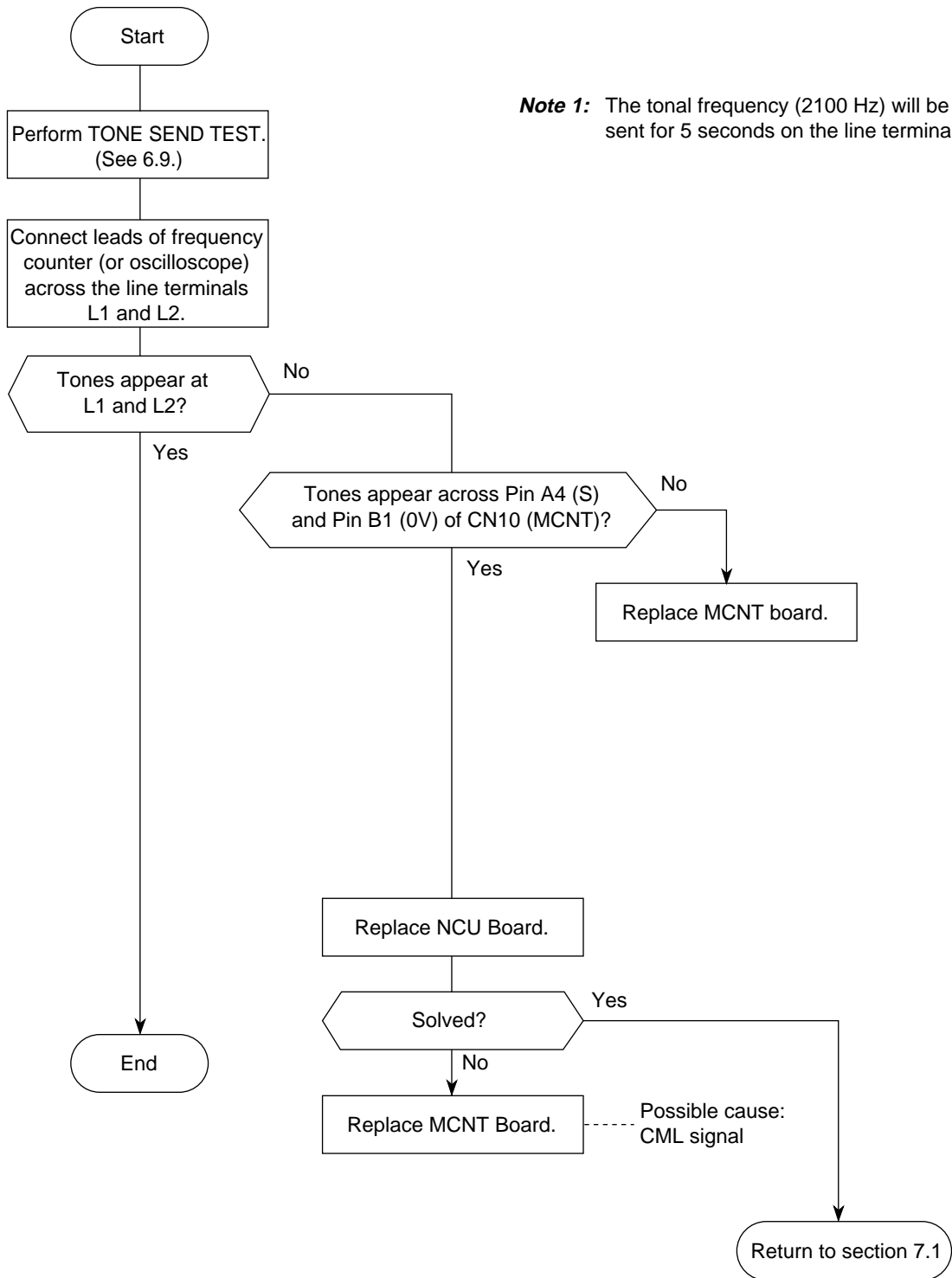


7.11 LED Test

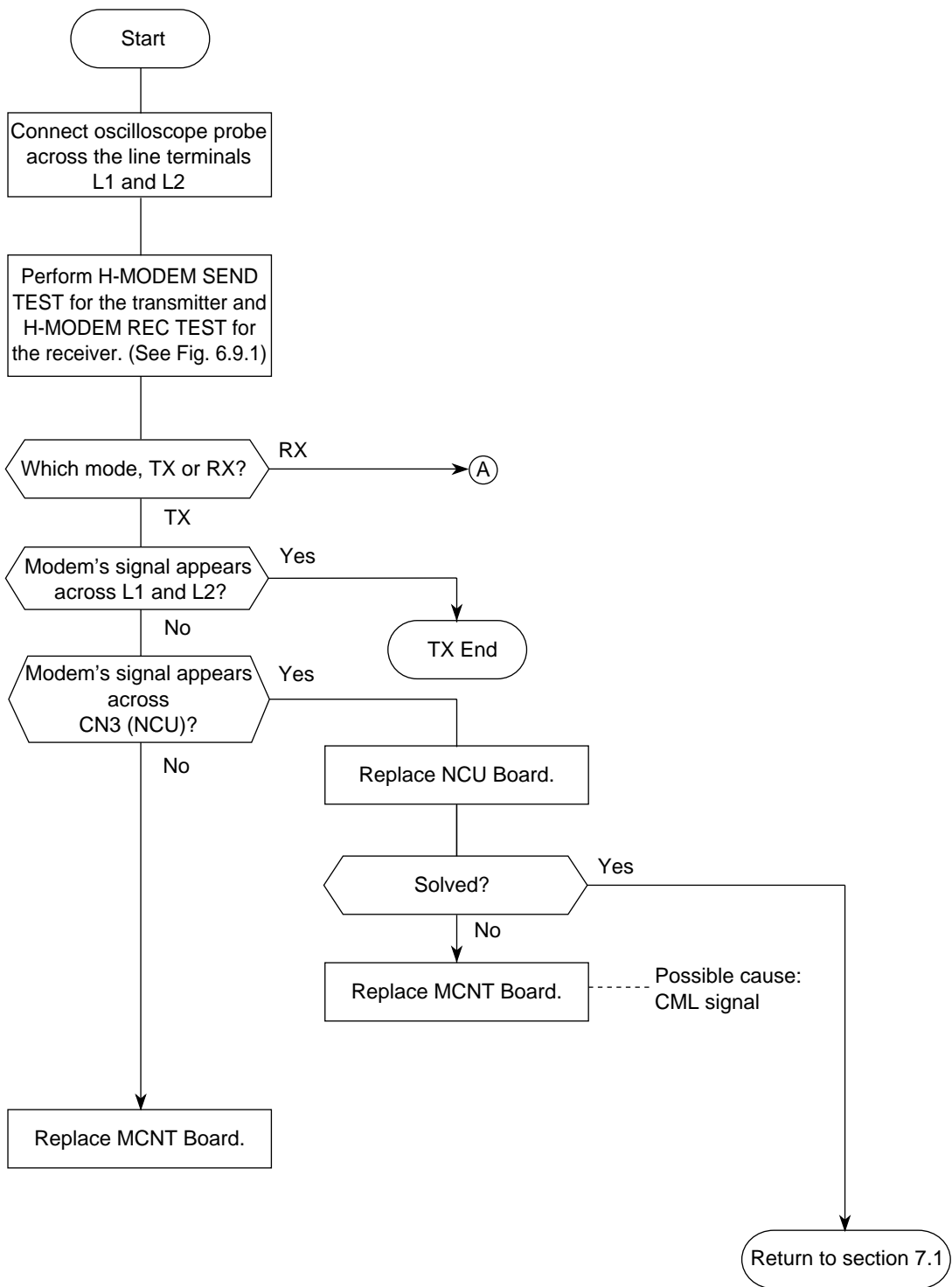


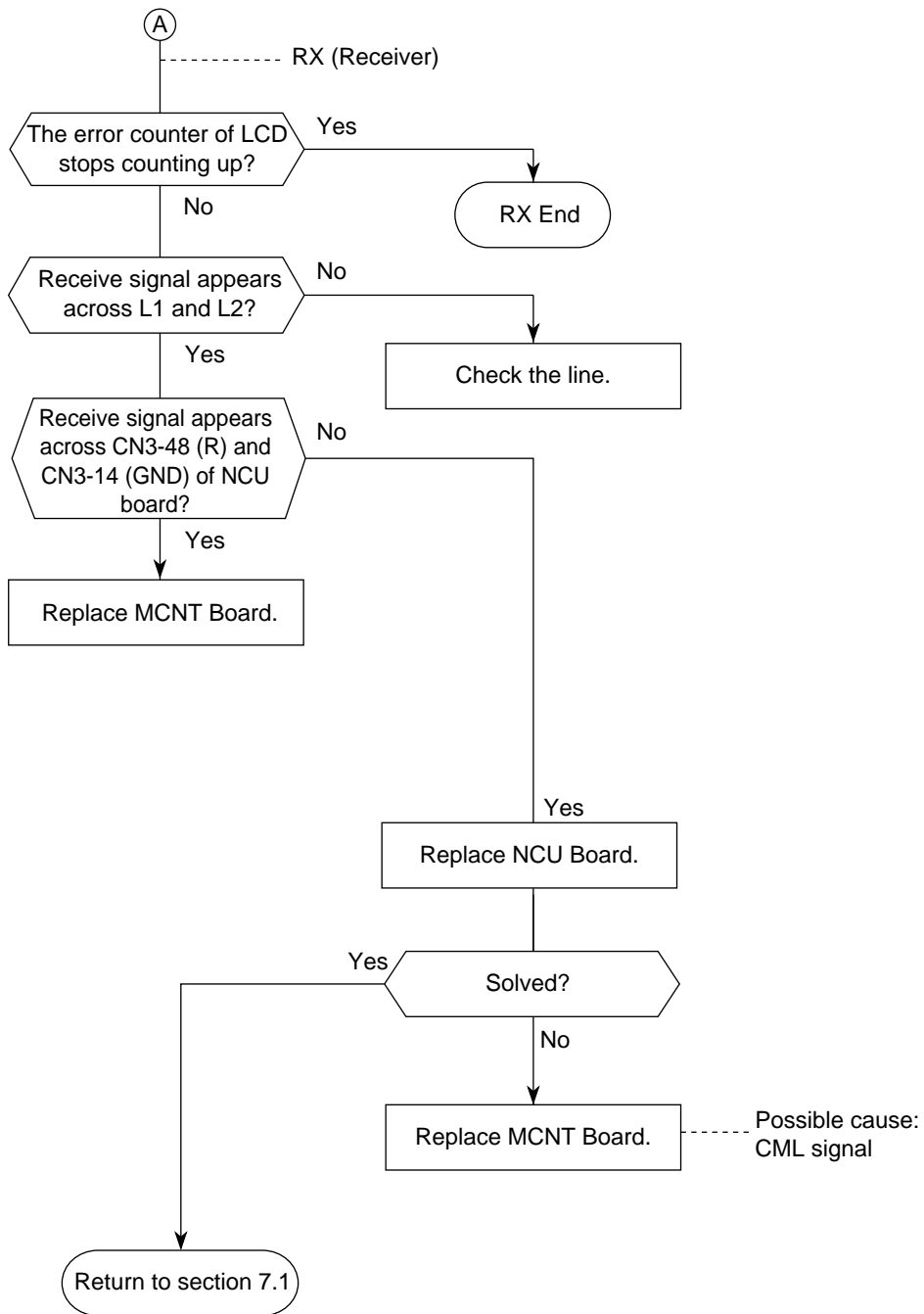
### 7.12 Tone Send Test

**Note 1:** The tonal frequency (2100 Hz) will be sequentially sent for 5 seconds on the line terminals L1 and L2.



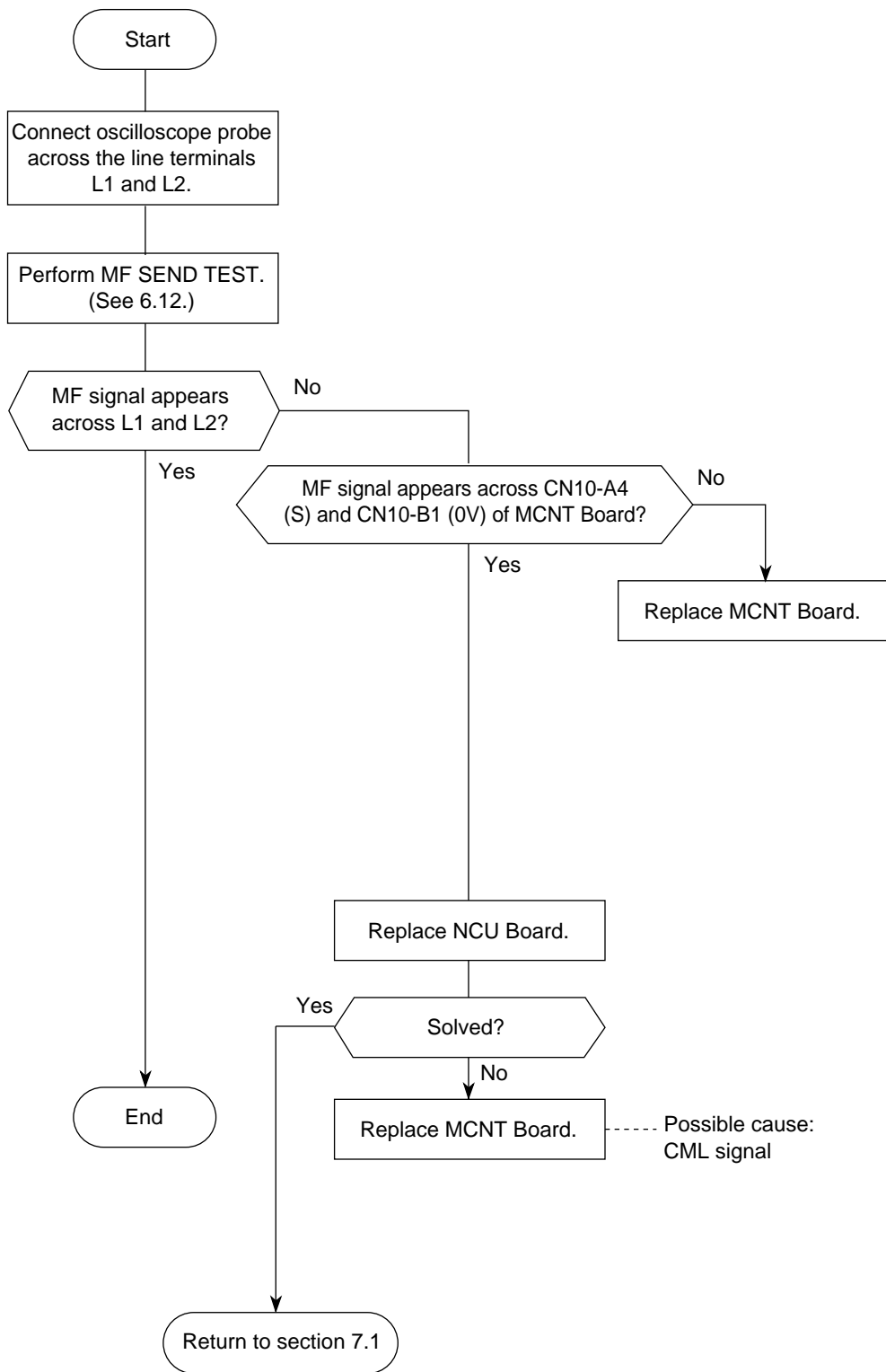
### 7.13 High-speed Modem Test



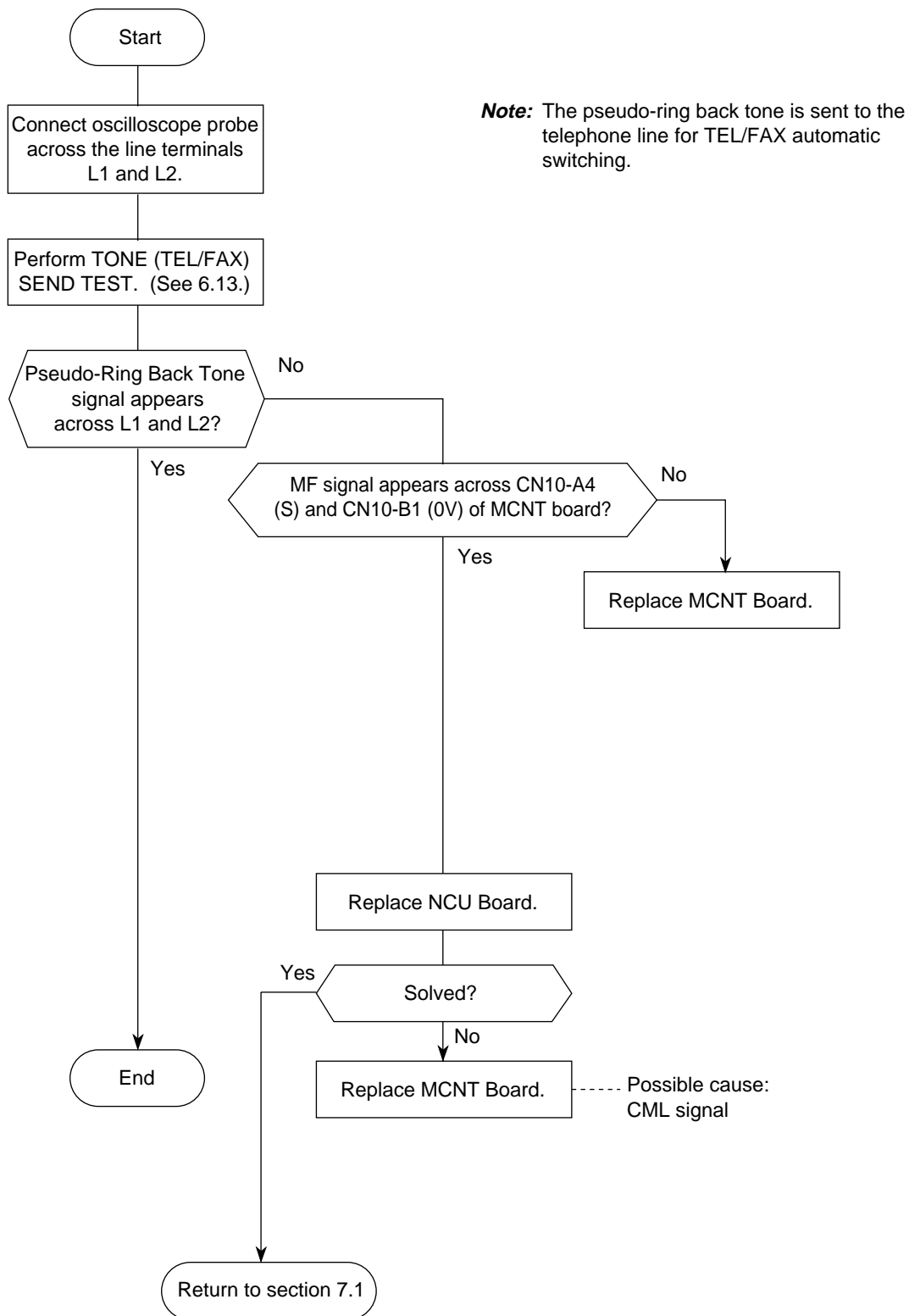




### 7.14 MF Send Test



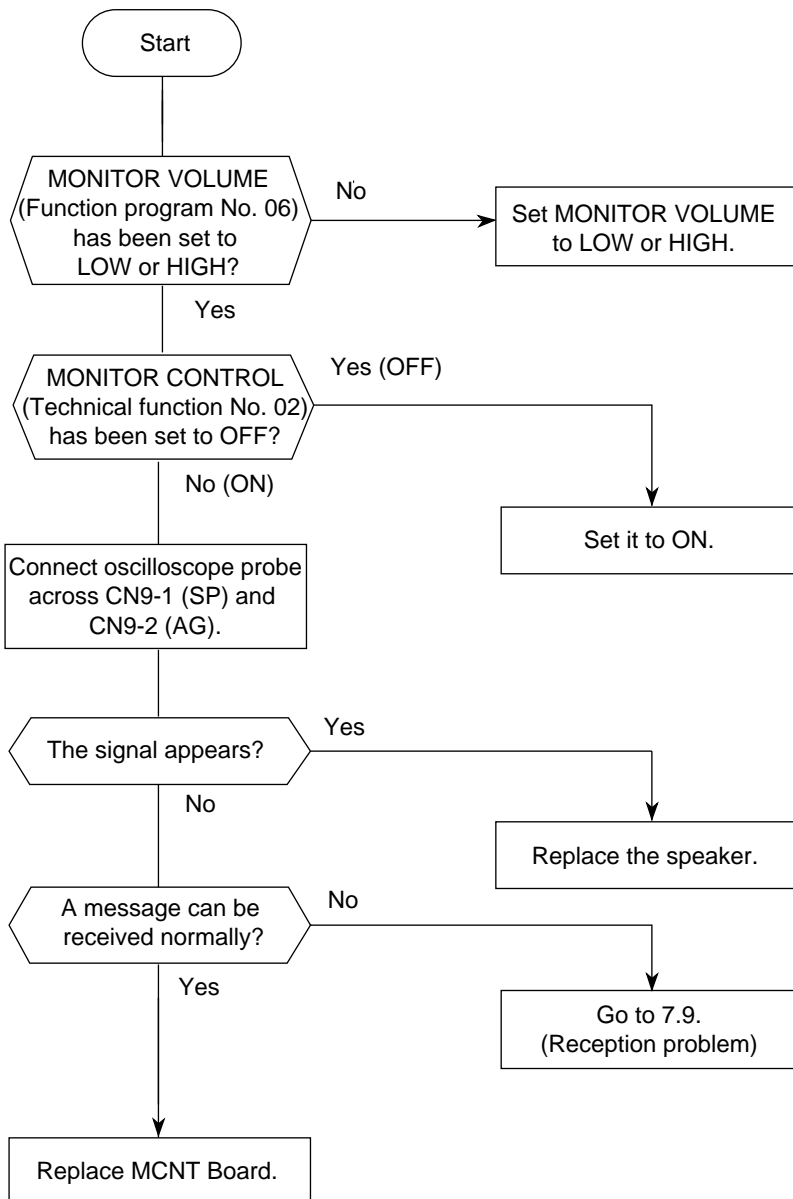
### 7.15 Tone (TEL/FAX) Send Test



## 7.16 No Acoustic Line Monitor

There are two source routes of acoustic line monitor:

- (a) General communication signal
- (b) DP pulse signal



### 7.17 Power Supply Unit

(A) Low-voltage Selection

Replace the Power Supply Unit when output voltage written on the item A3 in the Appendix A is not normal.

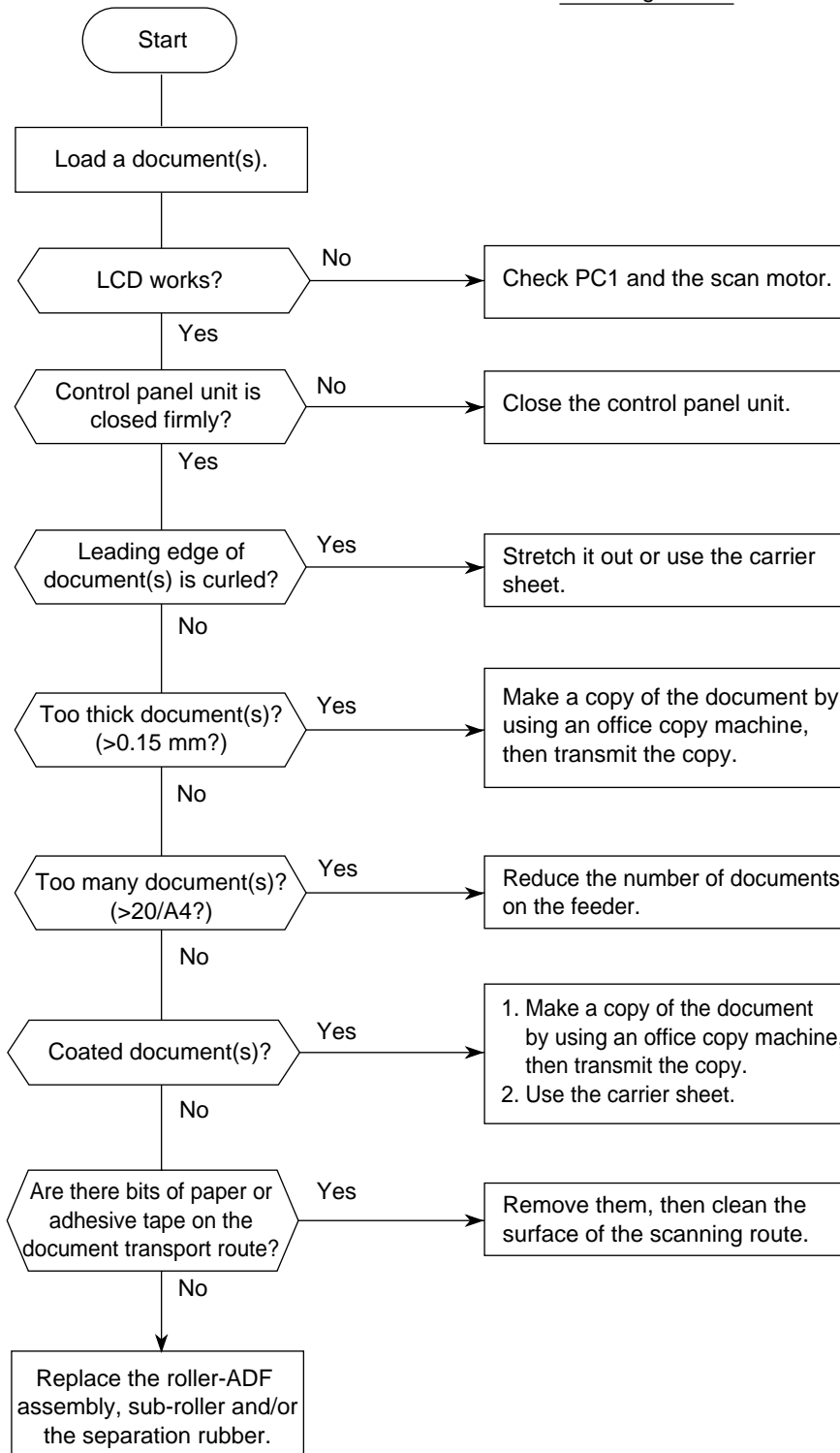
(B) High-voltage Selection

T.B.D. (To be determined)

### 7.18 No Document Feeding

**Note:** This section places an emphasis on troubleshooting of mechanical portions. Therefore, it is recommended to replace the MCNT Board first and, then if not solved, follow this flow chart.

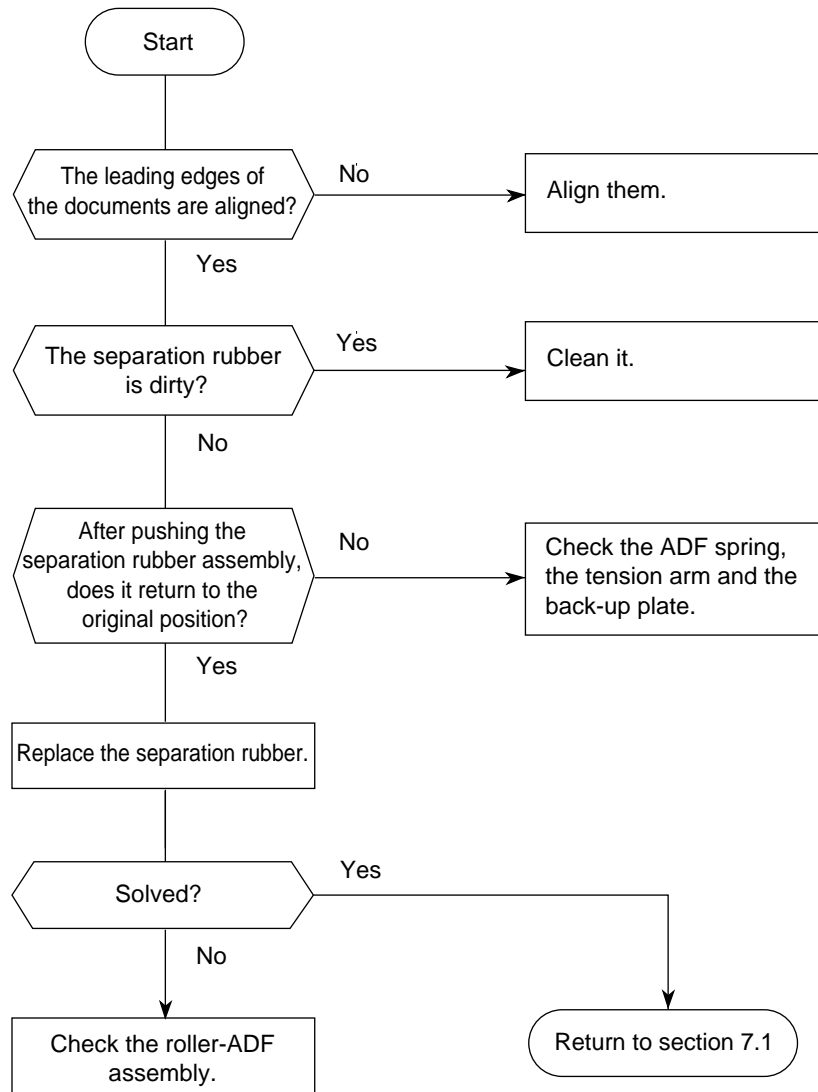
Checking Points:



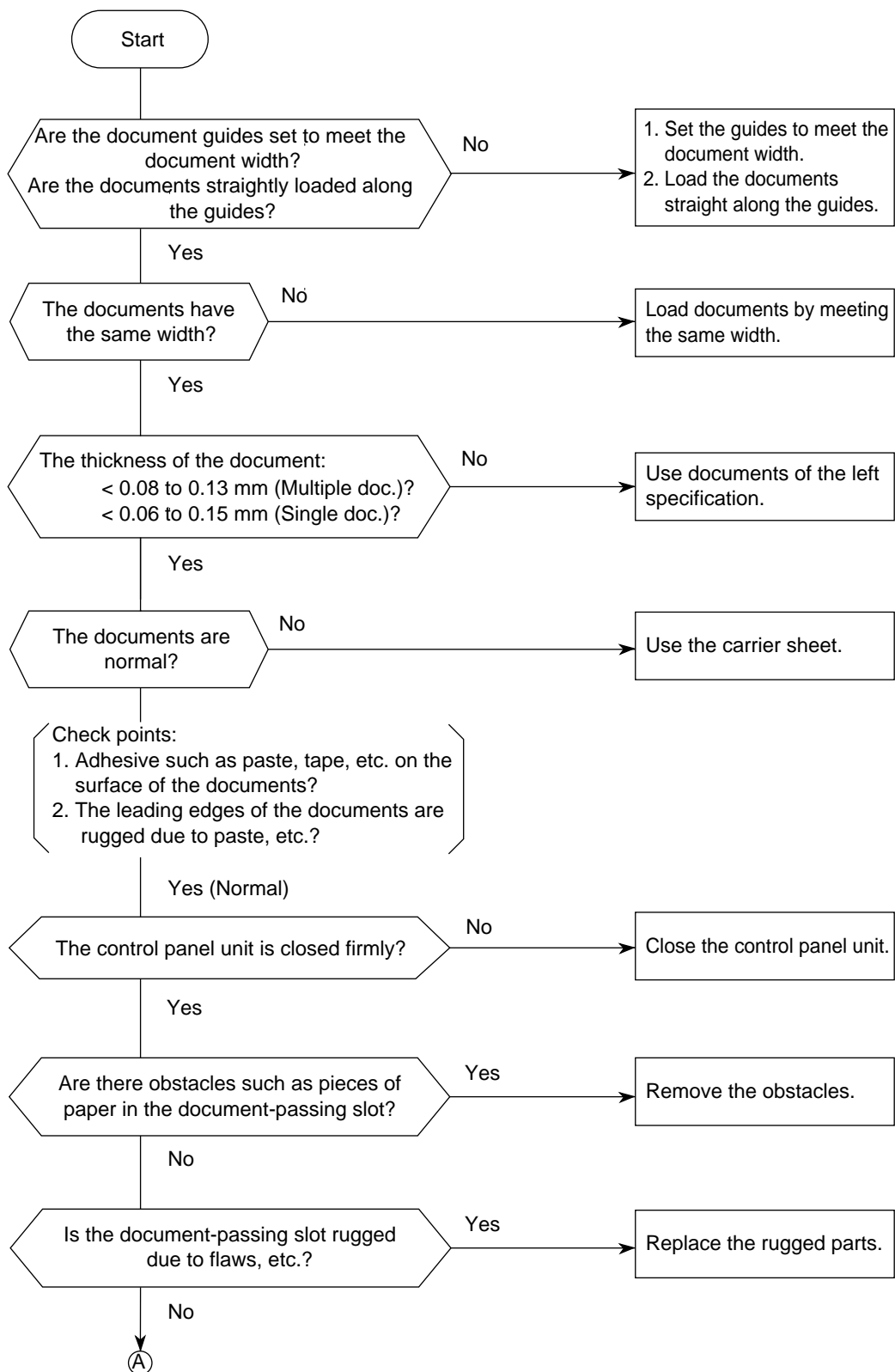
## 7.19 Multiple Document Feeding

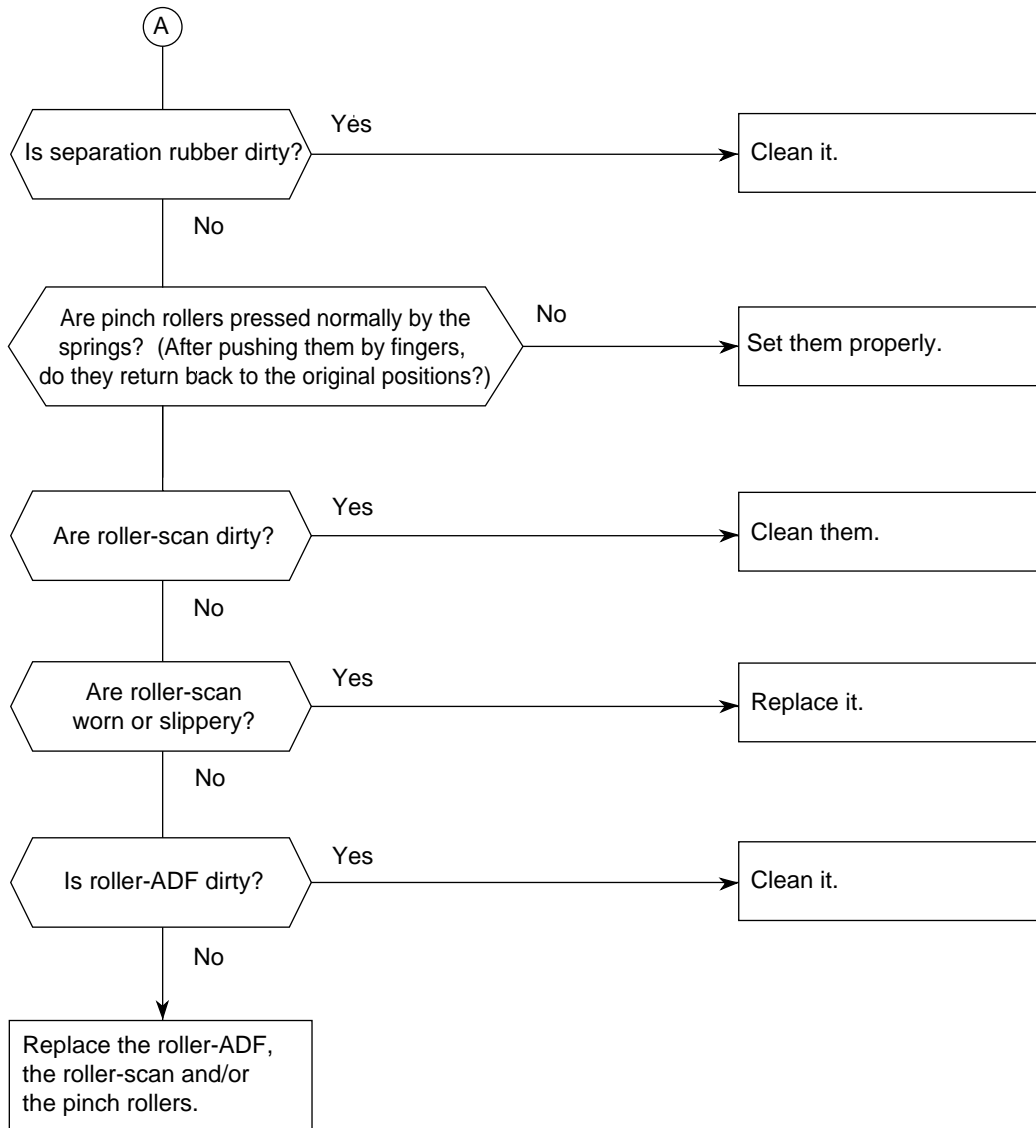
Definition: Multiple document feeding.

Multiple documents are not separated and they are fed in the same one feeding operation.

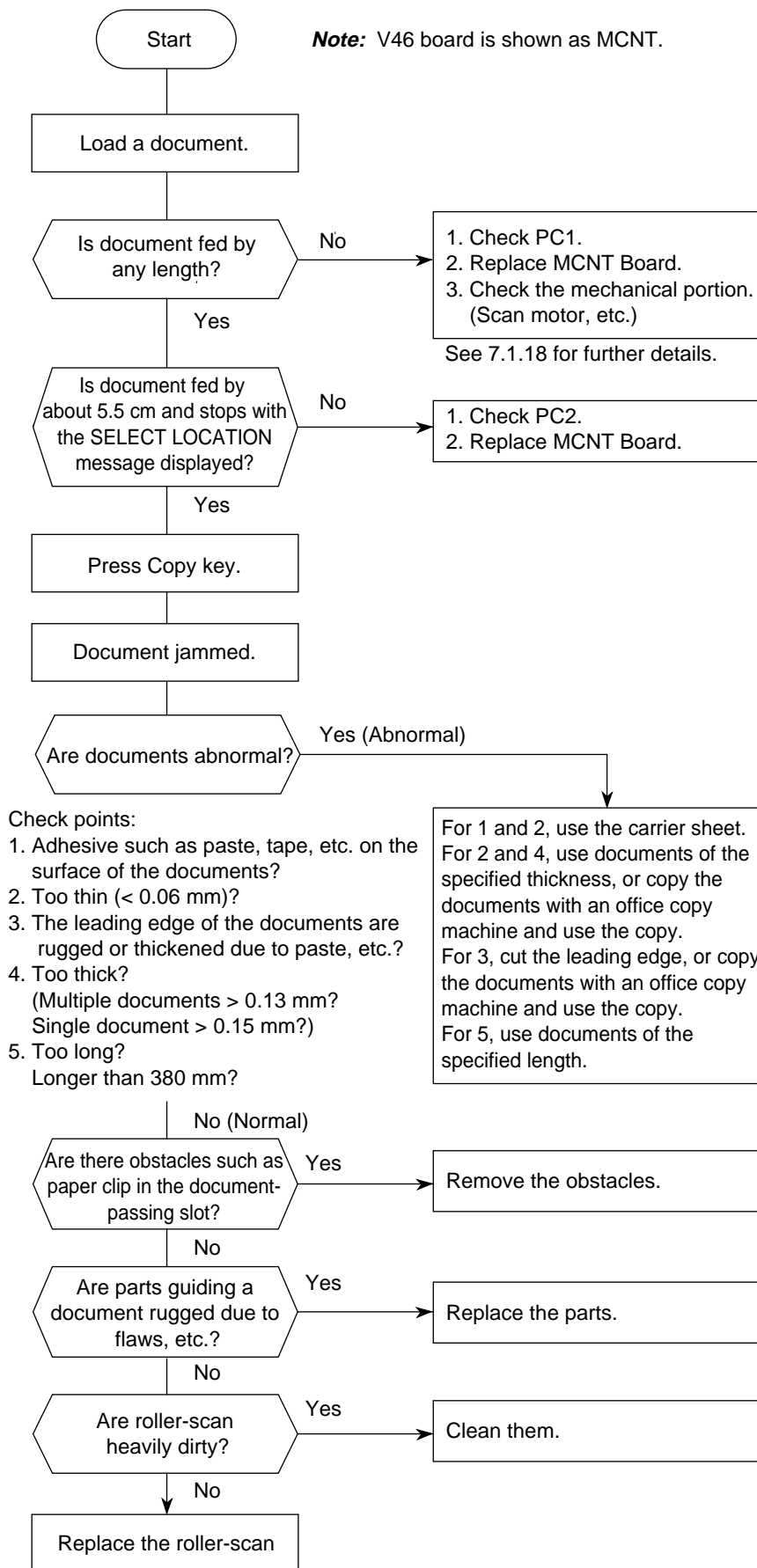


## 7.20 Document Skew





## 7.21 Document Jam





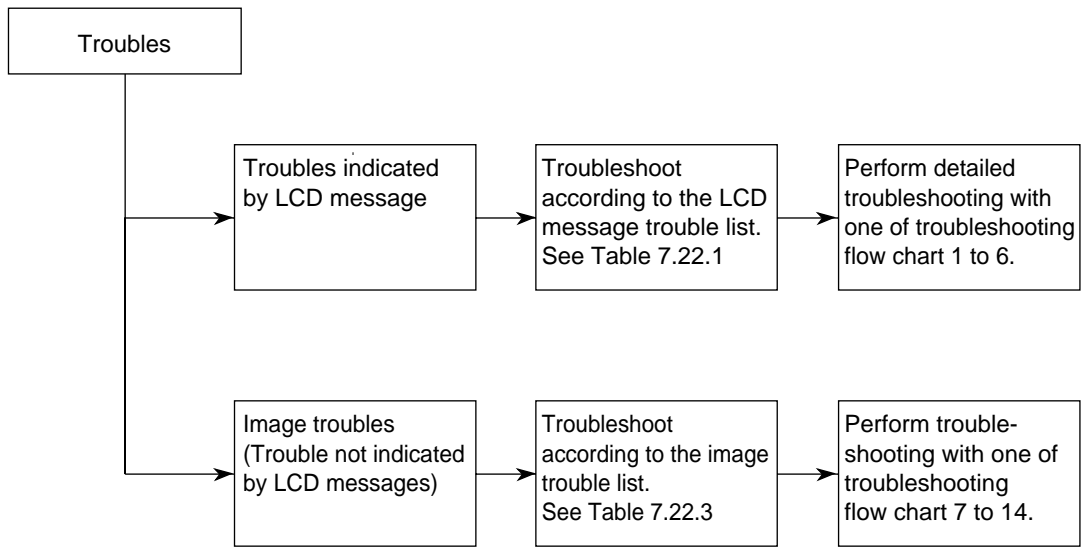
## 7.22 Printer Unit

### 7.22.1 Precautions

1. Points to check before correcting image troubles
  - (1) Is the printer being run in proper ambient conditions?
  - (2) Have the supplies (toner) and the routine replacement part (EP unit) been replaced properly?
  - (3) Is the recording paper normal?
  - (4) Has the EP unit been loaded properly?
  
2. Tips for correcting image troubles
  - (1) Do not touch, or bring foreign matter into contact with the surface of the drum.
  - (2) Do not expose the drum to direct sunlight.
  - (3) Keep hands off the fuser unit as it is heated during operation.
  - (4) Do not expose the drum to light for longer than 5 minutes at room temperature.

### 7.22.2 Troubleshooting Flow Charts of Printer Unit

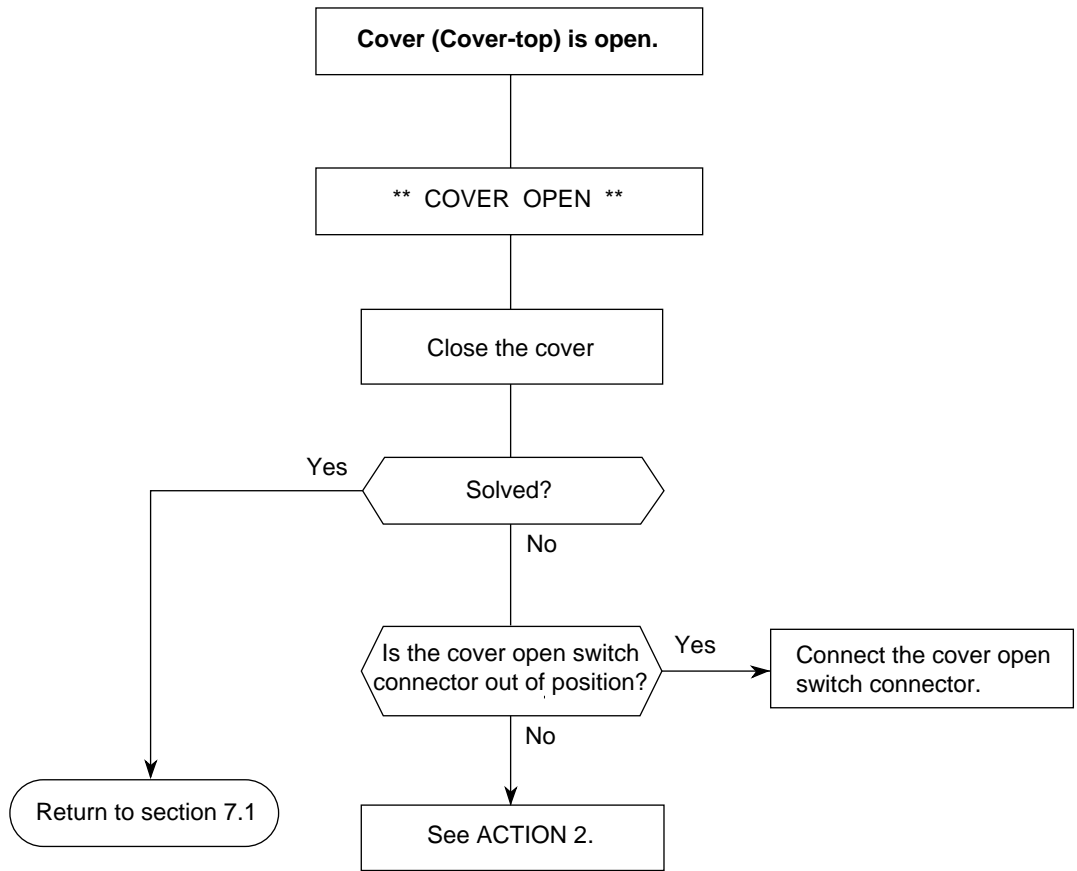
Overall troubleshooting flow chart:



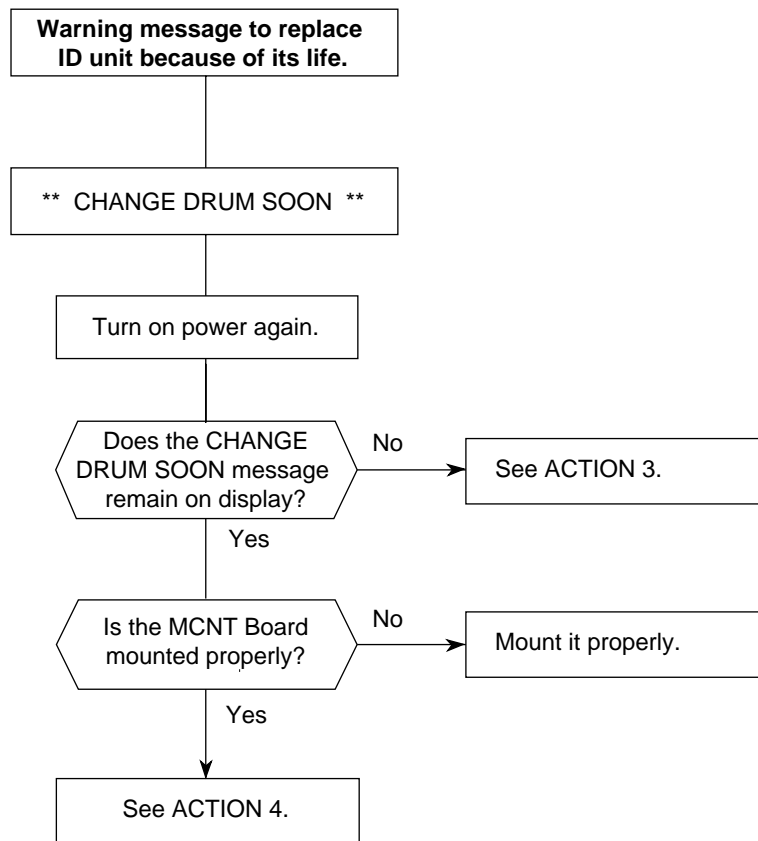
**Table 7.22.1 LCD Message Trouble List**

| Category                  | LCD message display                   | Trouble   | Troubleshooting flow chart number |
|---------------------------|---------------------------------------|---|-----------------------------------|
| Cover open                | COVER OPEN 14:14                      | The cover (cover-top) is open.  | 1                                 |
| Image drum alarm          | CHANGE DRUM SOON 14:14                | Warning message to replace EP unit because of its life.                     | 2                                 |
| Engine errors             | PRINTER ALARM 2 TEL<br>PLEASE CONFIRM | Engine controller error   | 3                                 |
|                           | PRINTER ALARM 4 TEL<br>PLEASE CONFIRM | Fuser unit thermal error  | 4                                 |
| Recording paper/jam error | PAPER OUT/JAM FAX<br>REPLACE PAPER    | Recording paper feed jam, transport jam, ejection jam, recording size error | 5                                 |
| Paper cassette request    | PAPER OUT/JAM FAX<br>REPLACE PAPER    | No recording paper tray or no recording paper                               | 6                                 |
| Daily status              | TONER LOW FAX<br>REPLACE TONER CART.  | Toner is running short.<br><b>Note:</b> No toner memory RX is ON.           |                                   |
|                           | 14:14 FAX<br>REPLACE TONER CART.      | Toner is running short.<br><b>Note:</b> No toner memory RX is OFF.          |                                   |

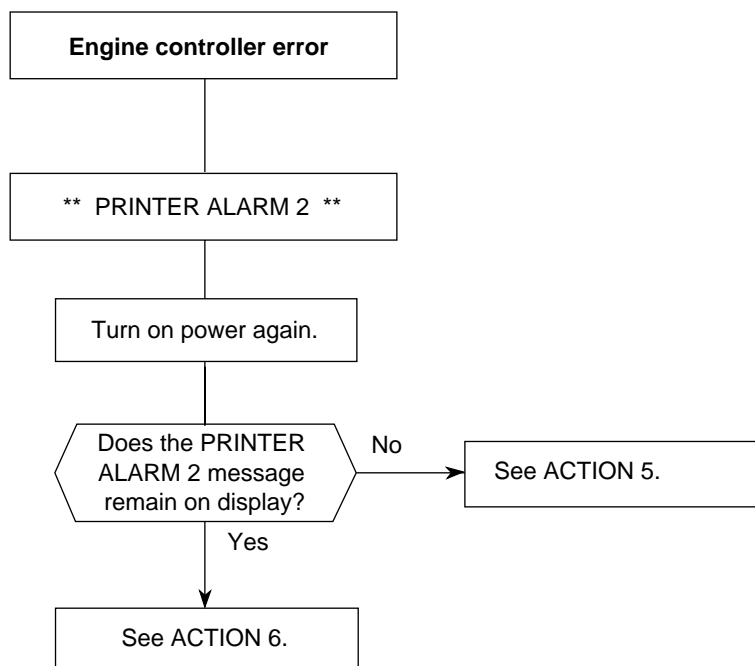
Troubleshooting flow chart 1:



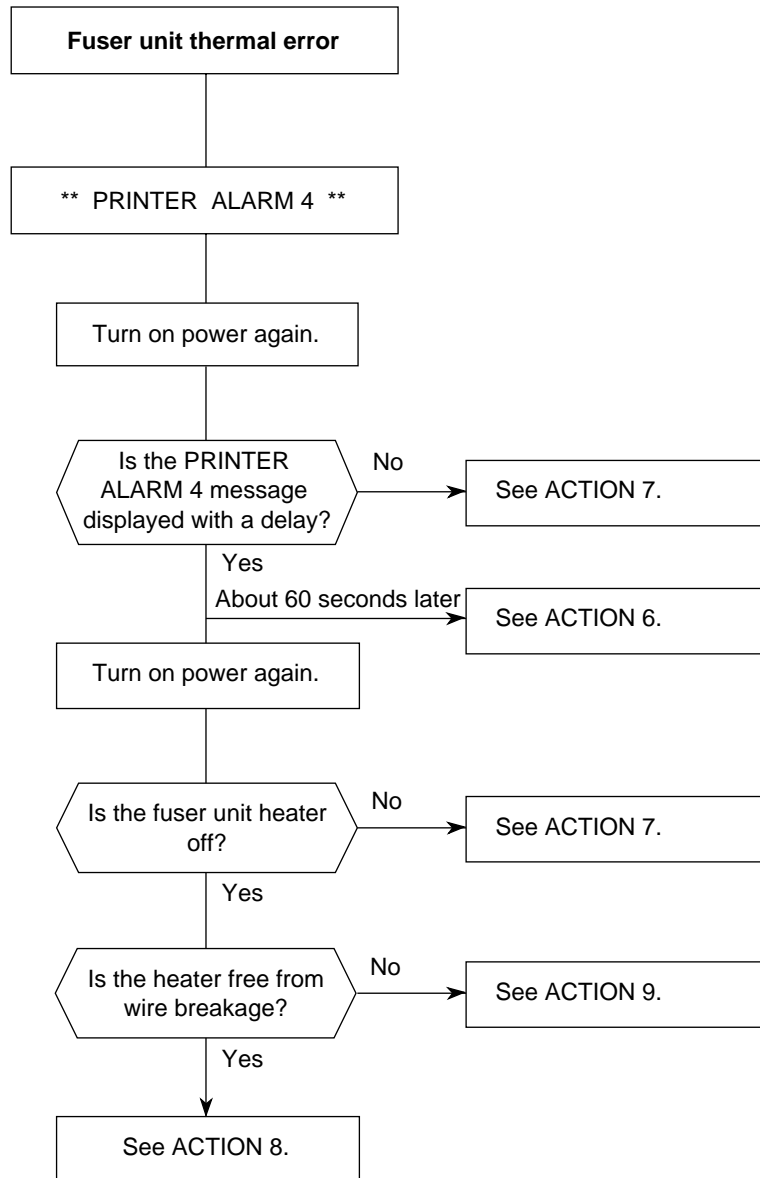
Troubleshooting flow chart 2:



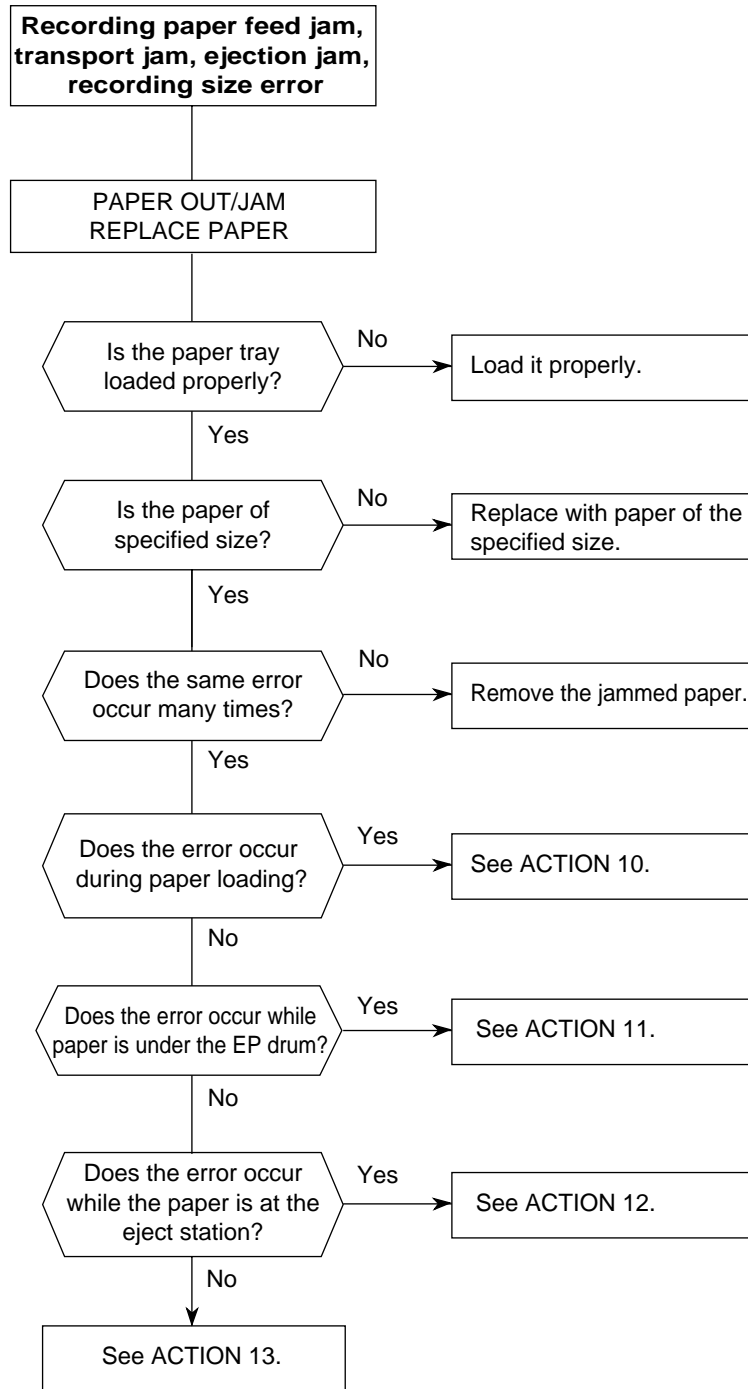
## Troubleshooting flow chart 3:



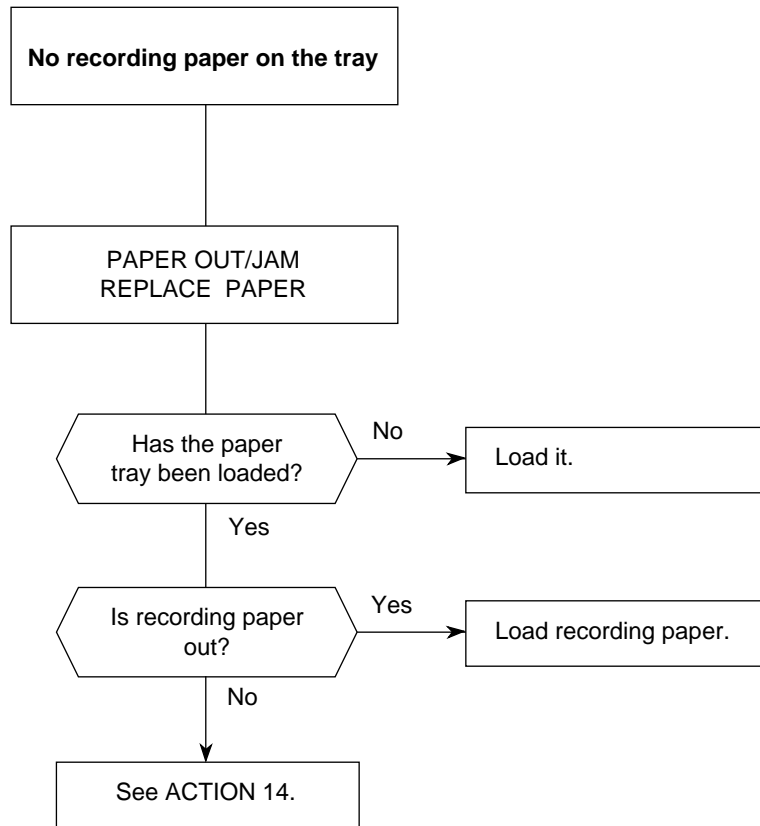
Troubleshooting flow chart 4:



Troubleshooting flow chart 5:



**Troubleshooting flow chart 6:**  
No recording paper on the tray





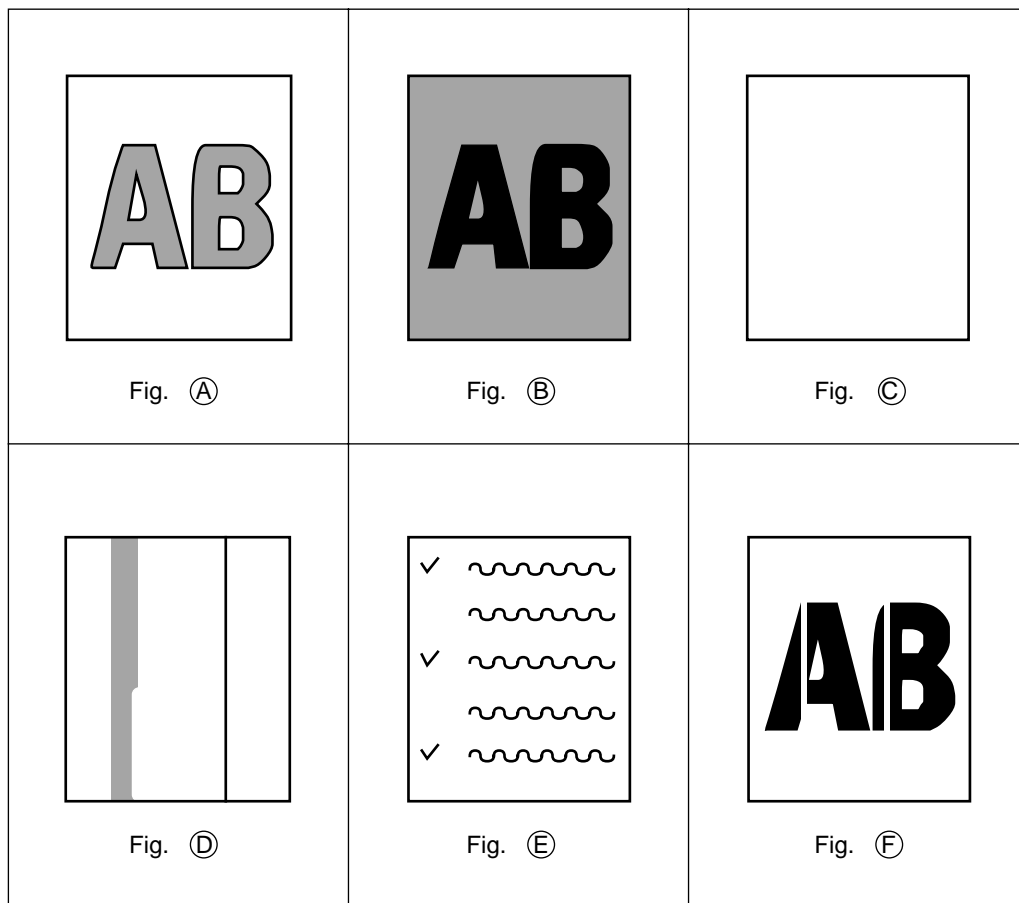
**Table 7.22.2 Action Items (Printer Unit-LCD Message)**

| No. | ACTION   | No. | ACTION  |
|-----|--|-----|---|
| 1   | Check MCNT Board.  | 8   | Check connection between the PWU and the fuser assembly, heater, thermostat.              |
| 2   | Check P2H/P6L Board cover open switch, cover open switch connection.<br>Check MCNT Board.  | 9   | Check PWU.  |
| 3   | Return to Section 7.1.   | 10  | Check Sensor-E, magnet-H, hopping roller, pulse motor, MCNT Board, Action of Idle gear-P. |
| 4   | Replace the EP Unit. And clear Drum Count, Section 6.3.  | 11  | Check Gear-T, MCNT Board, P2H/P6L Board.  |
| 5   | Check installation of MCNT board, POWER SUPPLY UNIT board.   | 12  | Check exit sensor lever, PWU  |
| 6   | Check MCNT Board.  | 13  | Check MCNT Board.   |
| 7   | Check thermister (resistance of about 200 kilo ohms at room temperature and about 140 kilo ohms at high temperature), POWER SUPPLY UNIT. | 14  | Check PWU, MCNT board.  |

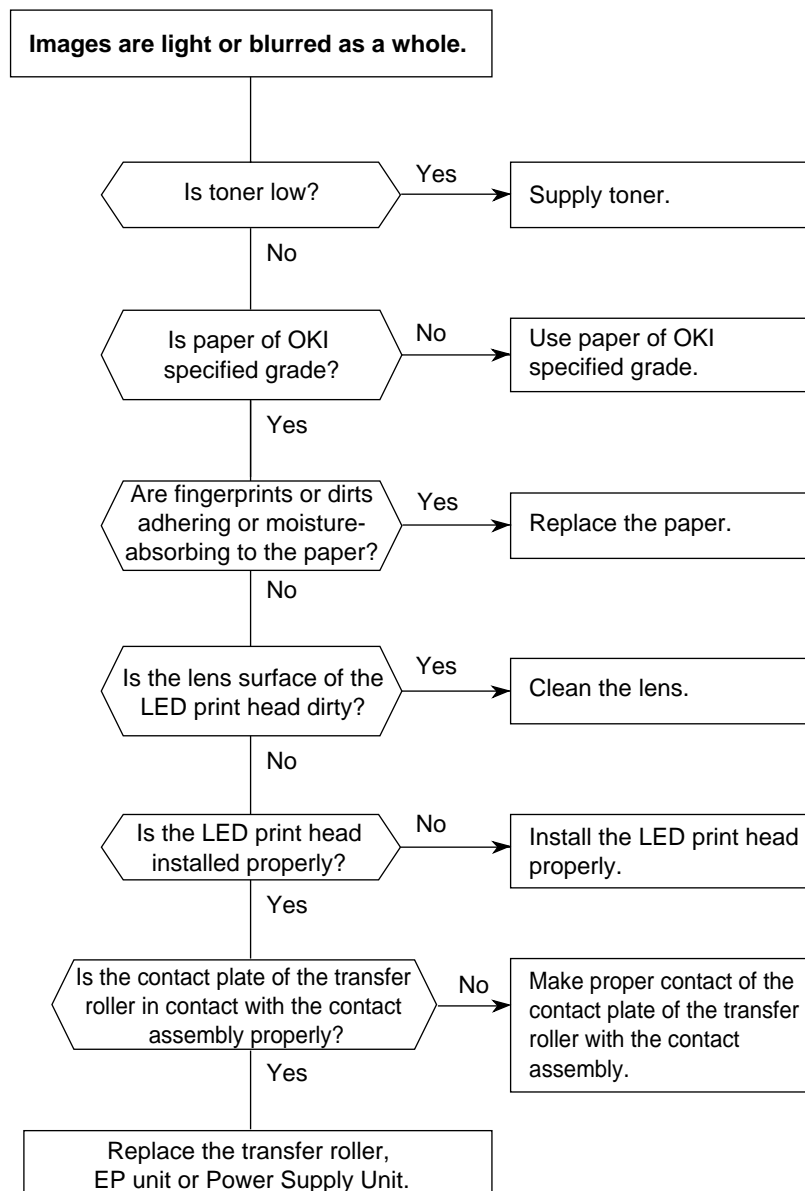
**Note:** V46 board for OKIFAX 4580 is shown as MCNT.

**Table 7.22.3 Image Troubles**

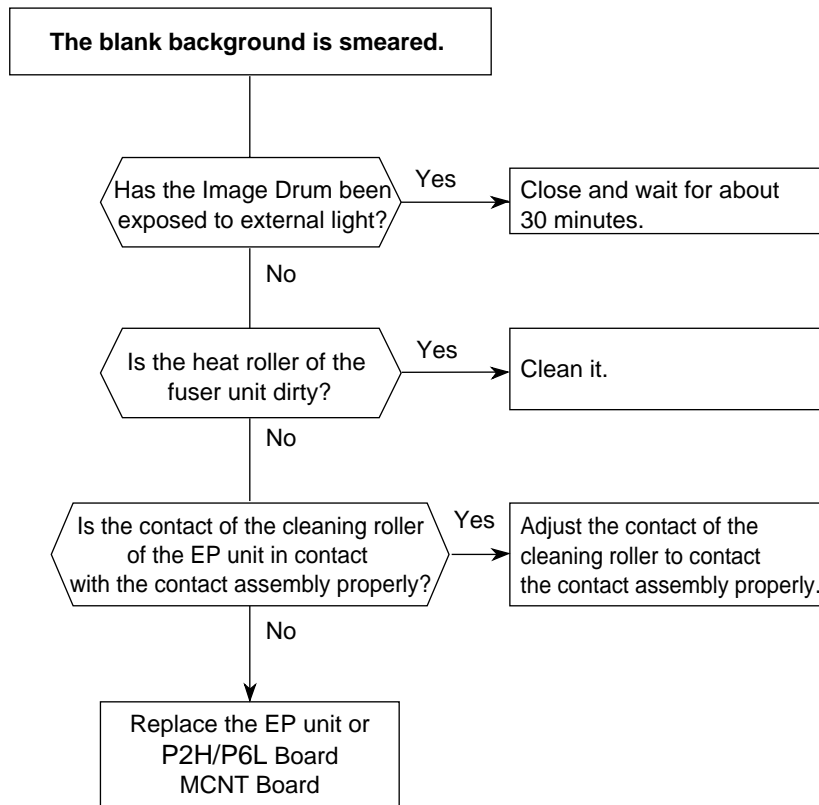
| Abnormal Symptom   | Reference Figure | Troubleshooting Flow Chart No. |
|--|------------------|--------------------------------|
| Images are light or blurred as a whole.                              | Fig. ①           | 7                              |
| The blank background is smeared.                                     | Fig. ②           | 8                              |
| Blank paper is output.   | Fig. ③           | 9                              |
| Black belts or black stripes in vertical direction.                  | Fig. ④           | 10                             |
| Periodic abnormal printing.  | Fig. ⑤           | 11                             |
| Some parts not printed.  | —                | 12                             |
| White belts or some white stripes in vertical direction.             | Fig. ⑥           | 13                             |
| Poor fusing (Images are blurred or peeled off when touched by hands) | —                | 14                             |

**Figure 7.22.1 Abnormal Symptoms of Image Troubles (Example)**

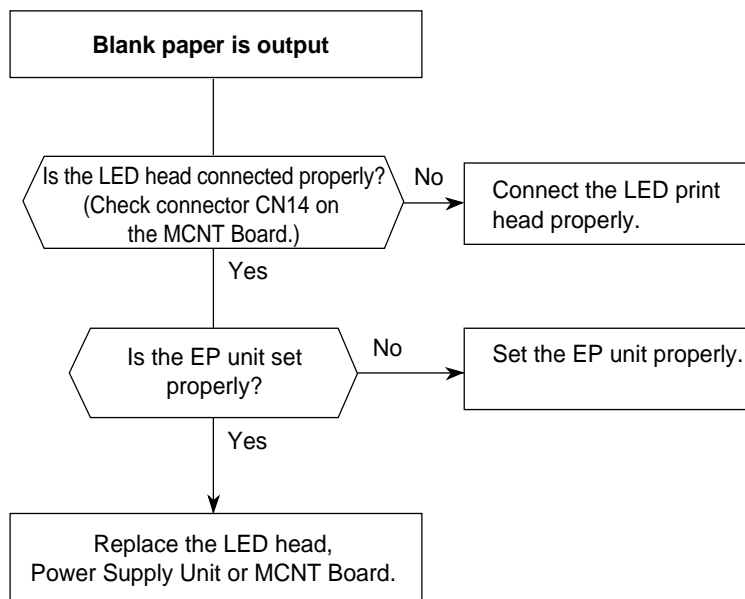
## Troubleshooting flow chart 7:



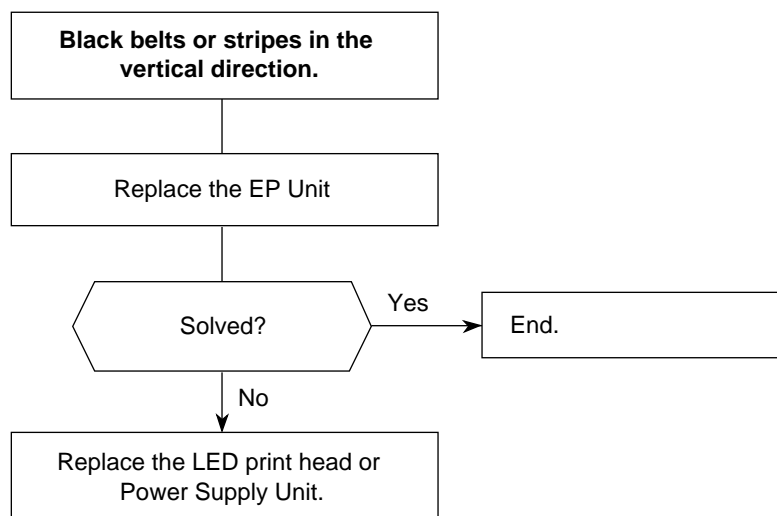
**Troubleshooting flow chart 8:**



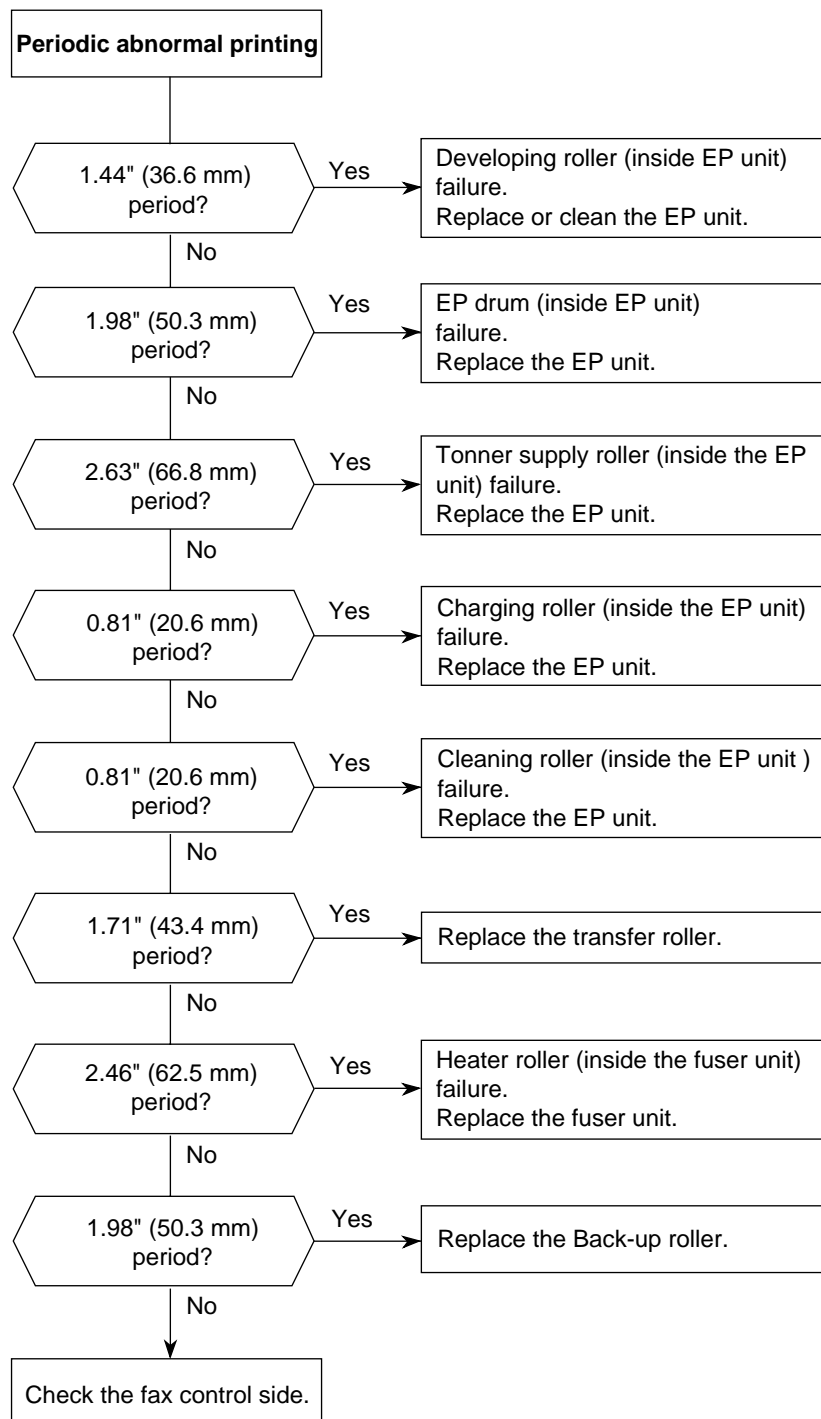
**Troubleshooting flow chart 9:**



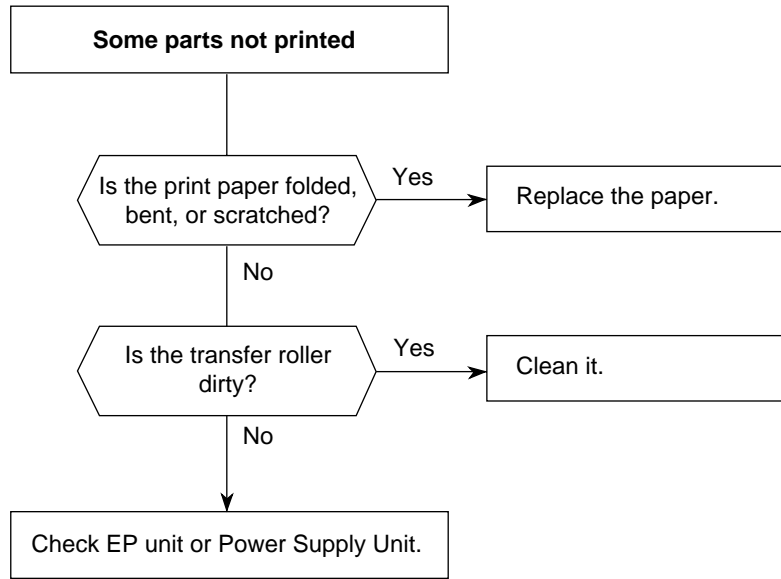
**Troubleshooting flow chart 10:**



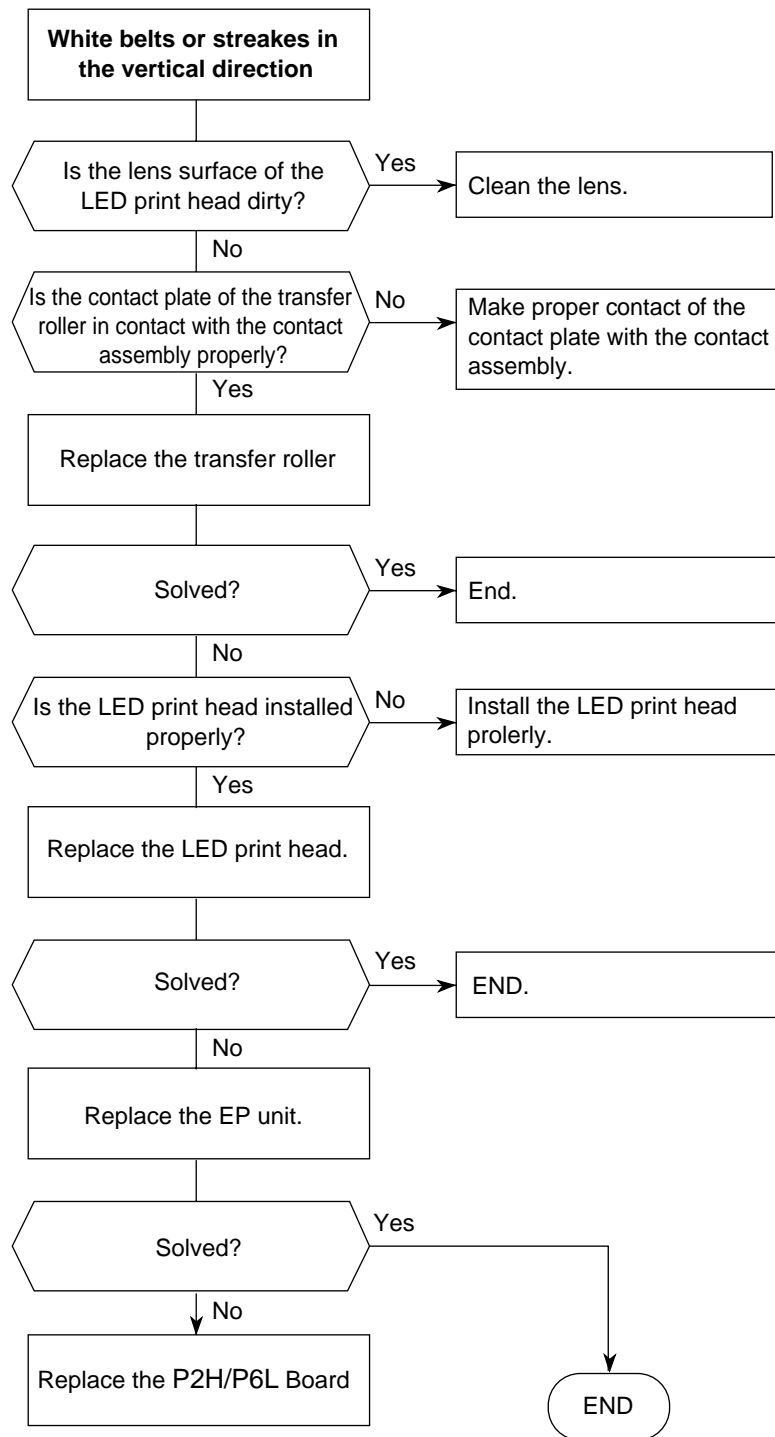
Troubleshooting flow chart 11:



Troubleshooting flow chart 12:

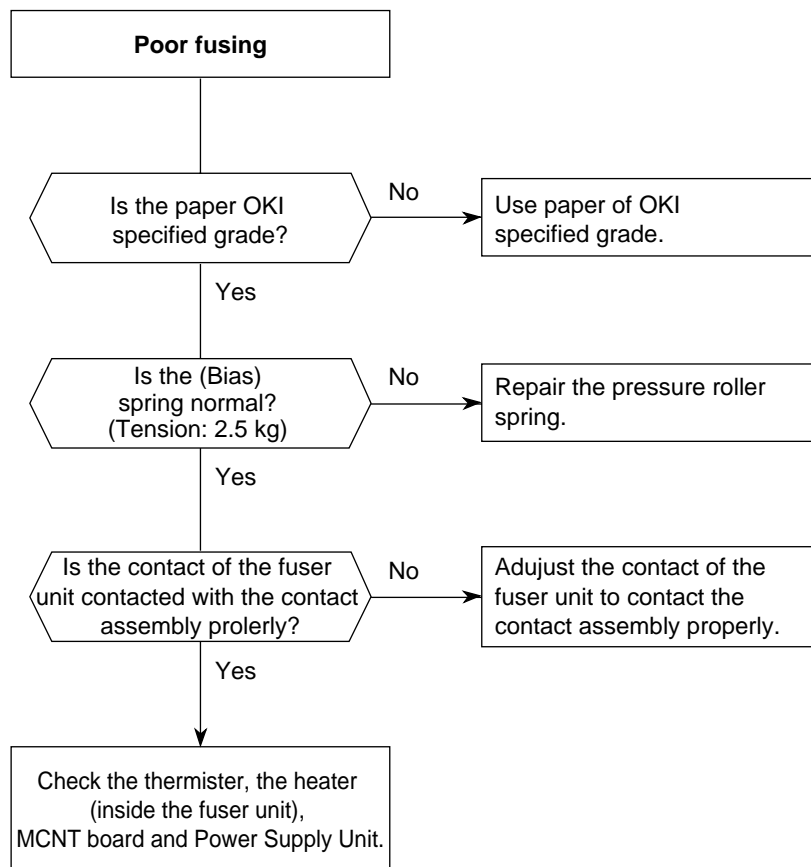


Troubleshooting flow chart 13:



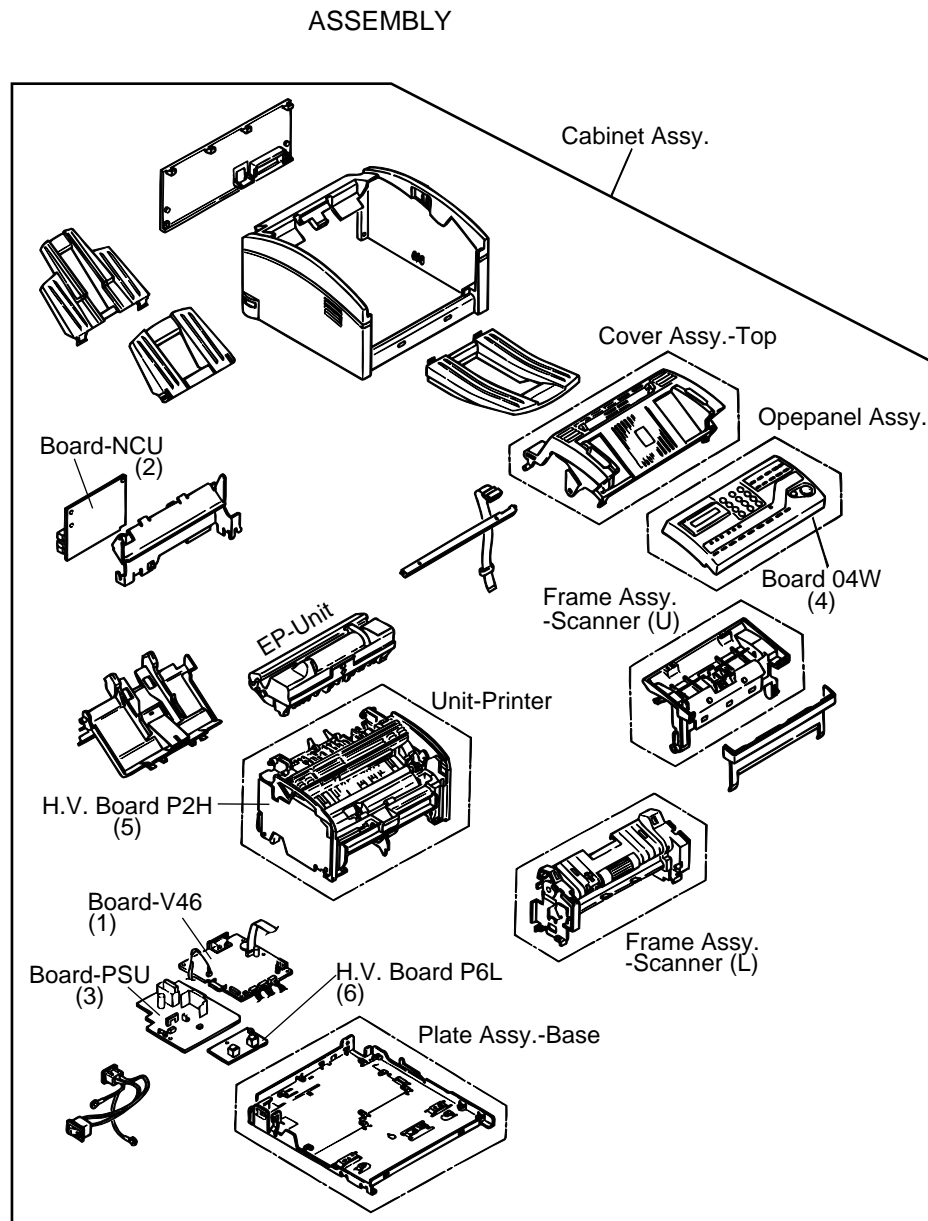


## Troubleshooting flow chart 14:



## APPENDIX A PC BOARD DESCRIPTIONS AND OPERATION

### 1. Unit Configuration and Block Diagram OKIFAX 4580



**Figure A.1 Unit Configuration (Modifying)**

- (1) Main control board (V46)
- (2) Network control unit (NCU)
- (3) Power supply unit (MPW1446 (230V), MPW1546 (120V))
- (4) Operation panel board (04W)
- (5) High Voltage Board (P2H)
- (6) High Voltage Board (P6L)

## APPENDIX B DESCRIPTIONS OF PRINT OPERATION

### 1. Electro-Photographic Processor

The electro-photographic processor prints out the image data to be sent from the main control board on sheets of paper. Figure B-1 shows the layout drawing of the electro-photographic processor.

(1) Image drum unit

The image drum unit makes a toner adhere to the formed electrostatic latent image with static electricity. This electrostatic latent image is formed by the lights irradiated from LED heads.

(2) Electromagnetic clutch

The electromagnetic clutch controls the rotation of the hopping roller according to signals from the control block.

(3) Pulse motor (Main)

This pulse motor of 48 steps/rotation is two-phase excited by the signal from the main control board; it performs feeding control by switching normal rotation to reverse rotation or vice versa and turning on/off the electromagnetic clutch. The relationship between the main motor, electromagnetic clutch, regist gear, drum gear, hopping roller is shown in the table below and on the subsequent pages.

(4) LED head

The shift and latch registers receive image data from the main control board for each dot line. 2,560 or 2,496 LEDs are driven to radiate the image drum.

(5) Heat Assy

The heat Assy consists of a heater, a heat roller, a thermistor, and a thermostat.

The power supply unit supplies AC voltage to the heater according to the HEATON signal from the main control board to heat the heat roller. The main control board monitors the heat roller temperature via the thermistor and keeps the temperature constant by turning on/off the heater AC voltage supply.

If the heat roller temperature rises abnormally, the thermostat of the heater voltage supply circuit functions to forcibly suspend the AC voltage supply.

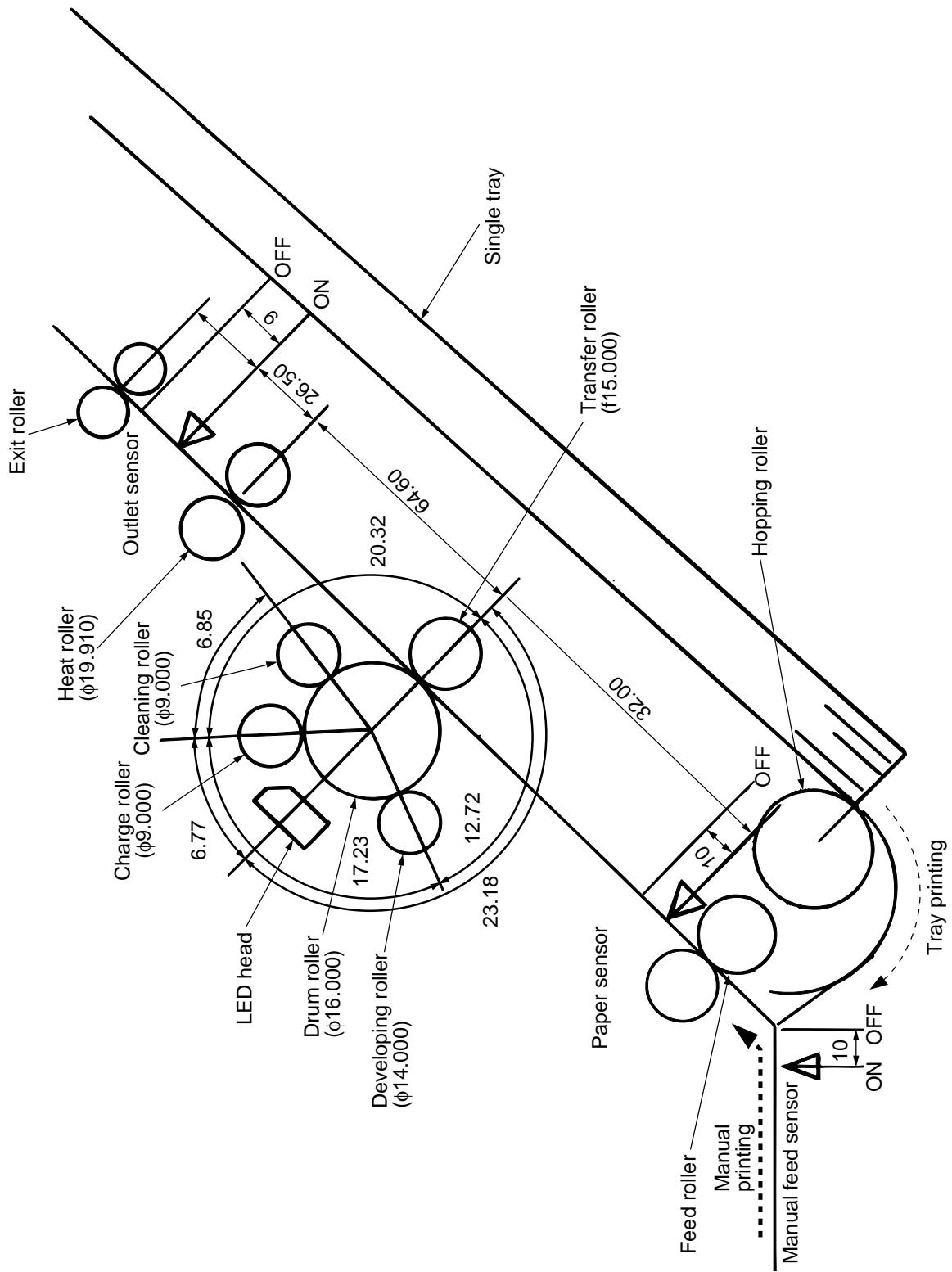


Figure B.1 Layout Drawing of Electro-Photographic Processor

## 2. Electro-Photographic Process

### (1) Electro-photographic process

The electro-photographic process is outlined below.

#### ① Charging

| Main Motor       | Electromagnetic Clutch | Hopping Roller | Regist Gear  | Drum Gear | Operation |
|------------------|------------------------|----------------|--------------|-----------|-----------|
| Normal rotation  | OFF                    | Non-rotation   | Non-rotation | Rotation  | Warm-up   |
| Reverse rotation | ON                     | Rotation       | Rotation     | Rotation  | Hopping   |
|                  | OFF                    | Non-rotation   | Rotation     | Rotation  | Printing  |

The surface of the OPC drum is charged negatively and uniformly by applying the DC voltage to the CH roller.

#### ② Exposure

Light emitted from the LED head irradiates the negatively charged surface of the OPC drum. The surface potential of the irradiated surface attenuates to form the electrostatic latent image corresponding to the image signal.

#### ③ Development and residual toner recovery

The negatively charged toner is brought into contact with the OPC drum, adhering to the electrostatic latent image on the OPC drum by static electricity. This adhesion causes the electrostatic latent image to change to a visible image.

At the same time, the residual toner on the OPC drum is attracted to the developing roller by static electricity.

#### ④ Transfer

When paper is placed over the image drum surface, the positive charge which is opposite in polarity to that of the toner, is applied to the reverse side by the transfer roller. The toner is attracted by the positive charge and is transferred onto the paper. This results in the transfer of the toner image formed on the image drum onto the paper.

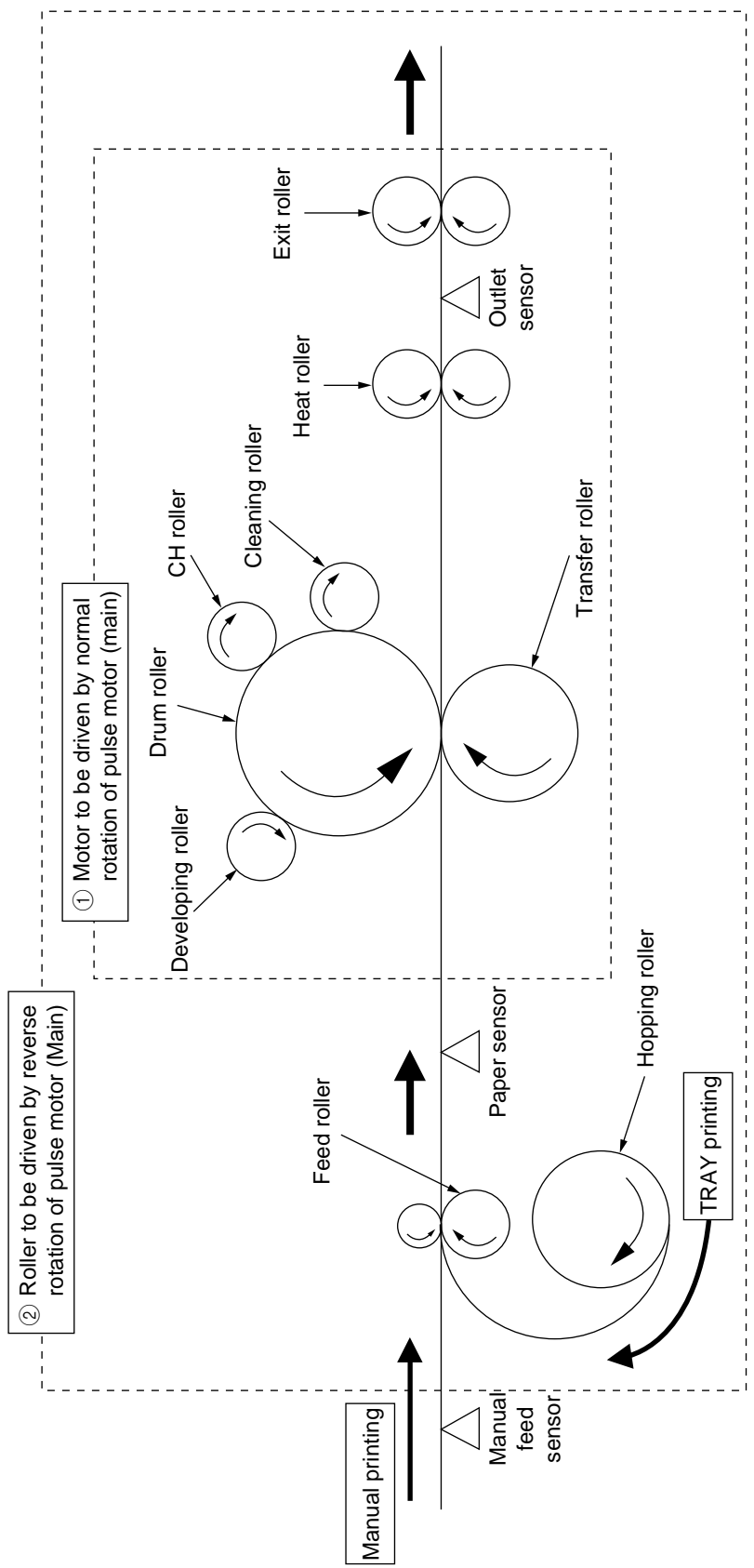
#### ⑤ Cleaning

The cleaning roller temporarily attracts the residual toner on the transferred OPC drum with static electricity, then returns the toner to the OPC drum.

#### ⑥ Fusing

The transferred unfused toner image is fused to a sheet of paper by applying heat and pressure to the image.

Figure B.2 is a flow for the electro-photographic process.



Roller control by pulse motor (main)

① Normal rotation of pulse motor (main): Drum roller, transfer roller, cleaning roller, CH roller, developing roller, heat roller, exit roller, exit roller rotation

② Reverse rotation of pulse motor (main): Drum roller, transfer roller, cleaning roller, CH roller, developing roller, heat roller, exit roller, feed roller, hopping roller rotation

Hopping operation from the tray, however, is performed when the electromagnetic clutch is turned on.

Figure B.2 Schematic Drawing of OKIFAX 4550 Paper Feeding

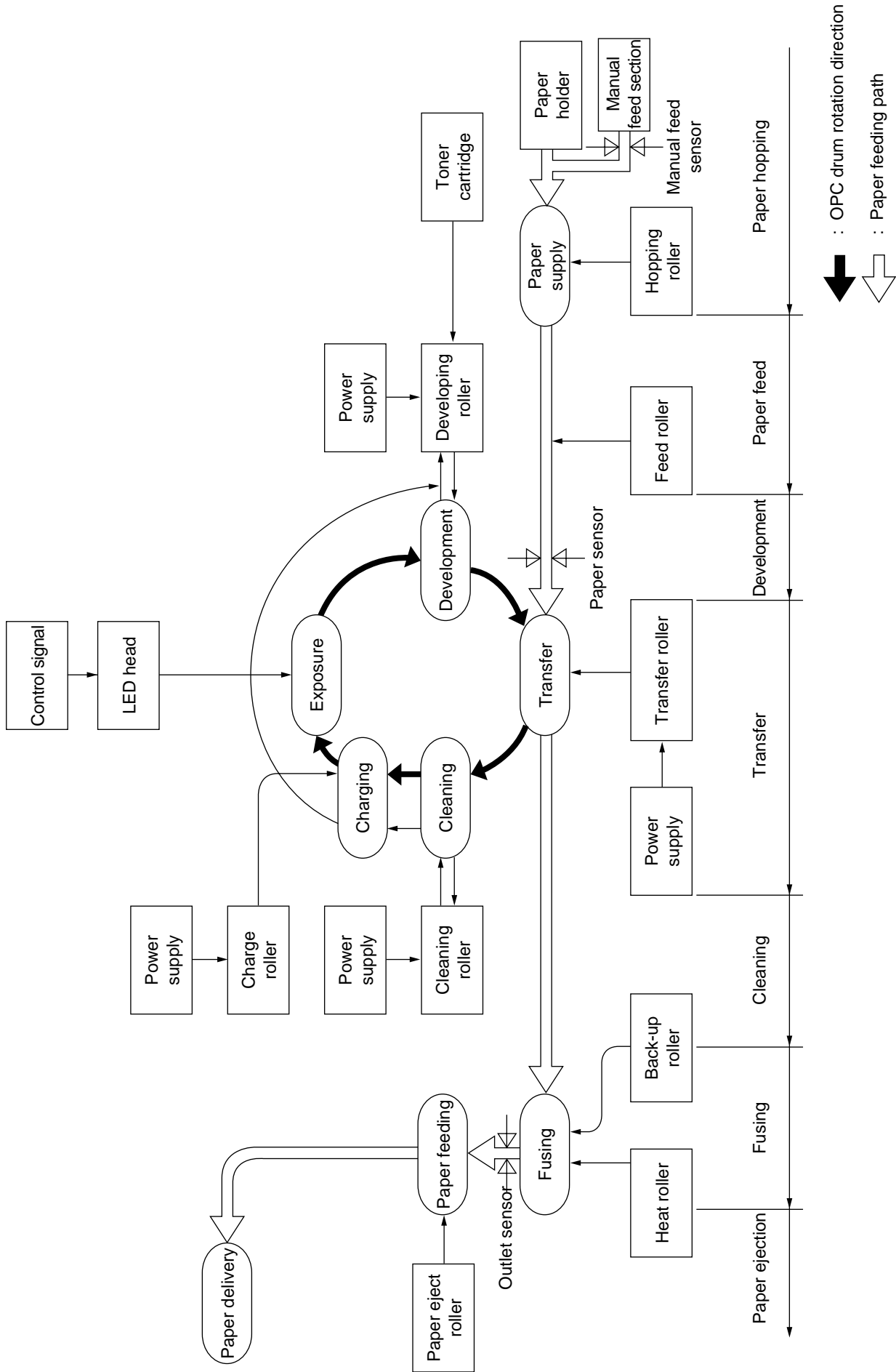


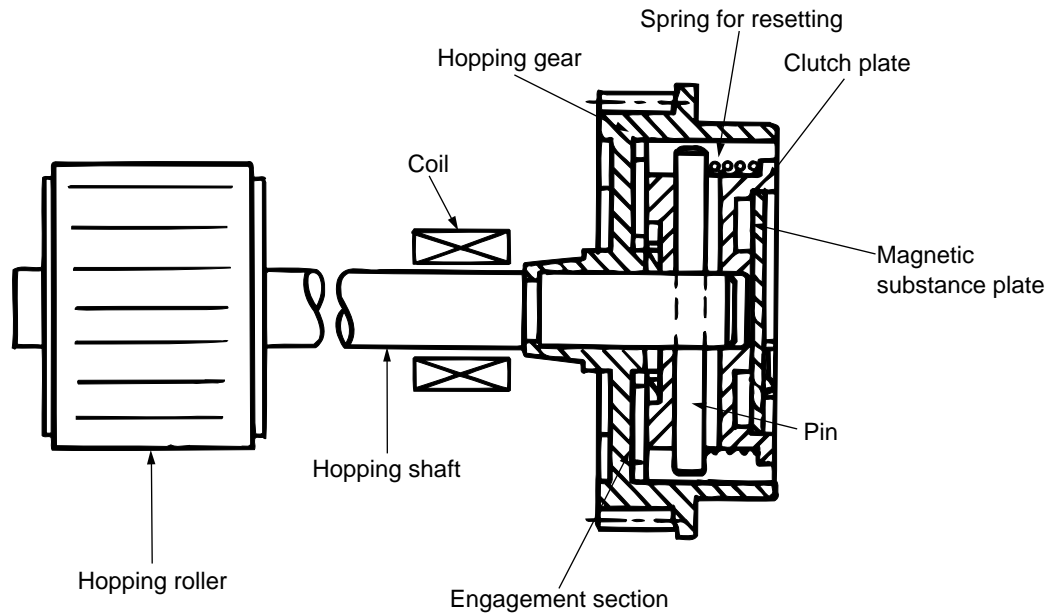
Figure B.3 Flow for Electro-Photographic Process

## 2.1 Explanation of Each Process Operation

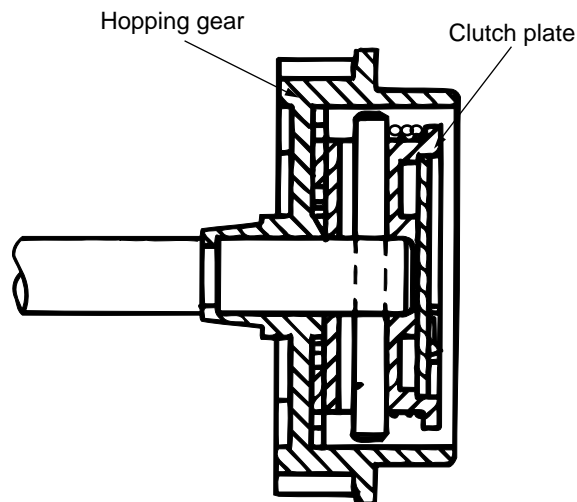
### (1) Hopping

As shown in the figure below, the clutch for hopping is turned on/off according to current ON/OFF to a coil.

When the clutch is OFF



When the clutch is ON



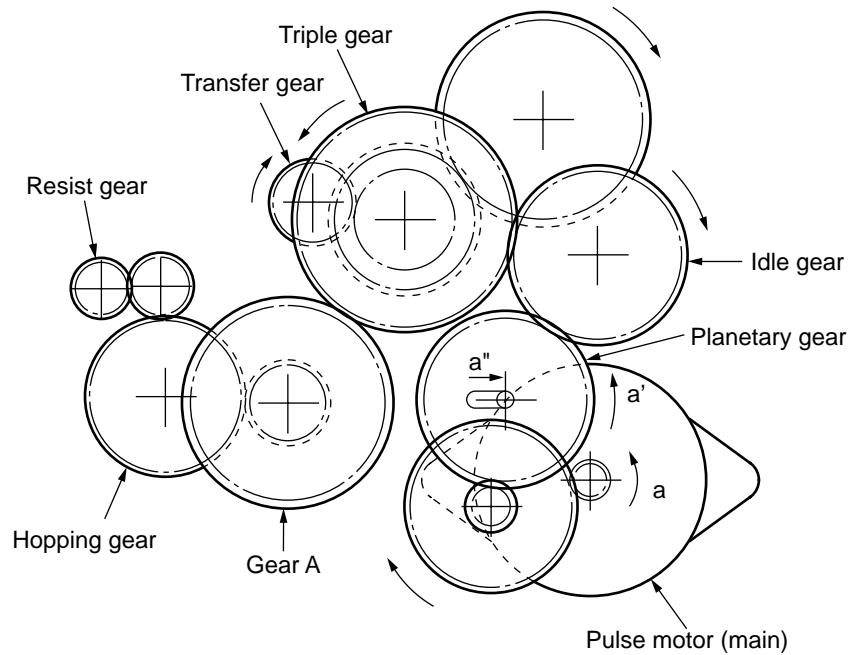
When the clutch is on, the hopping gear engages with the clutch plate to rotate the hopping roller.

When the clutch is off, the hopping gear is separated from the clutch plate by the spring for resetting, disabling the rotation of the hopping roller.



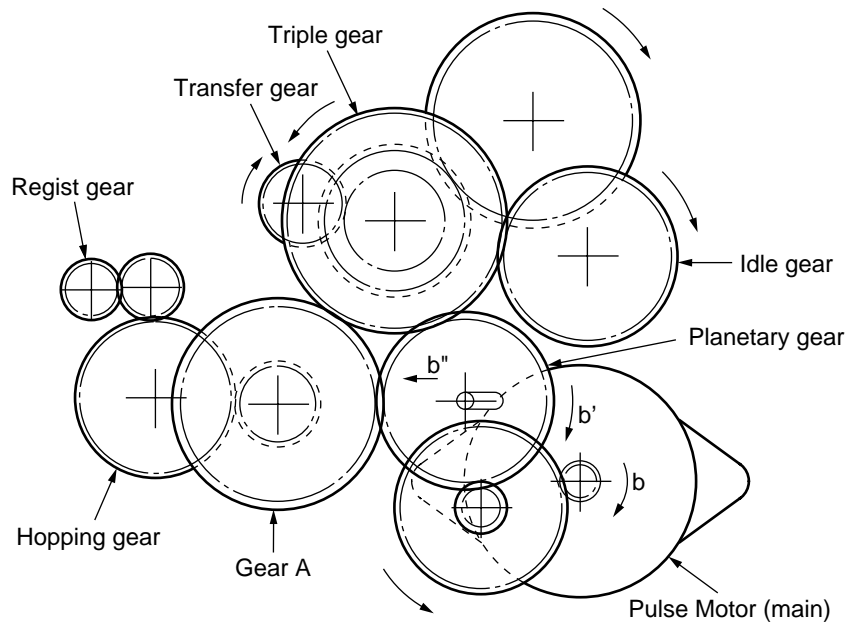
(2) Printing and warm-up

At warm-up



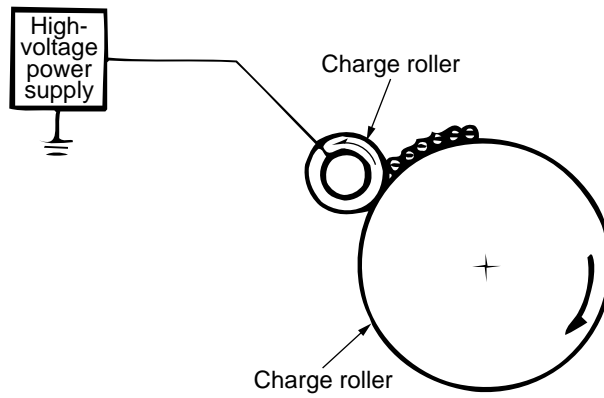
Rotate the pulse motor (main) in the  $a$  direction. The planetary gear rotates in the  $a'$  direction, dislocating its position in the  $a''$  direction. This causes the planetary gear to be separated from gear A. The hopping gear will not rotate. The triple gear and transfer gear rotate via the idle gear to drive the EP unit.

At printing

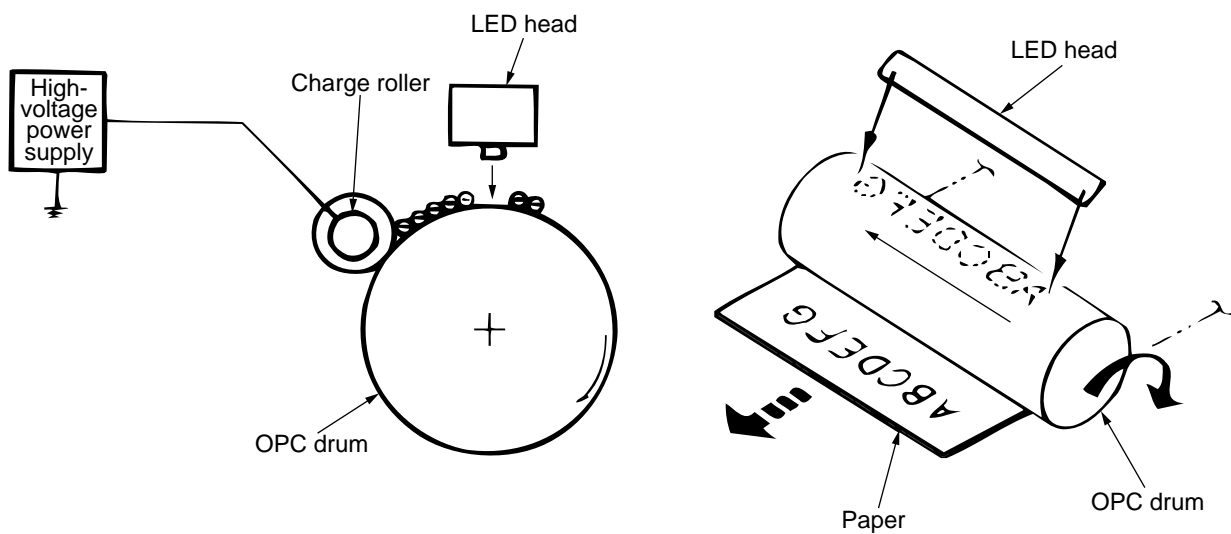


The paper is further advanced in synchronization to the print data.

- (3) Charging  
 Charging is performed by applying DC voltage to the charge roller that is in contact with the surface of the OPC drum.



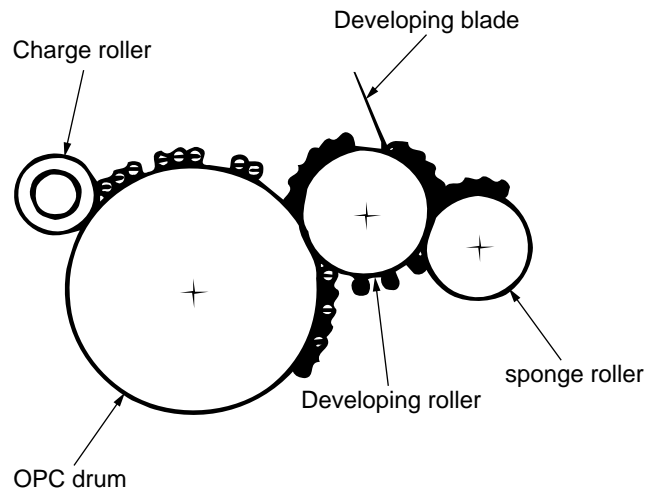
- (4) Exposure  
 Light emitted from the LED head irradiates the negatively charged surface of the OPC drum. The surface potential of the irradiated surface attenuates to form the electrostatic latent image corresponding to the image signal.



## (5) Development

The electrostatic latent image on the surface of the OPC drum is changed to a visible toner image by applying a toner to it. Development is performed in the contact part between the OPC drum and developing roller.

- ① The sponge roller negatively charges a toner and applies it to the developing roller.

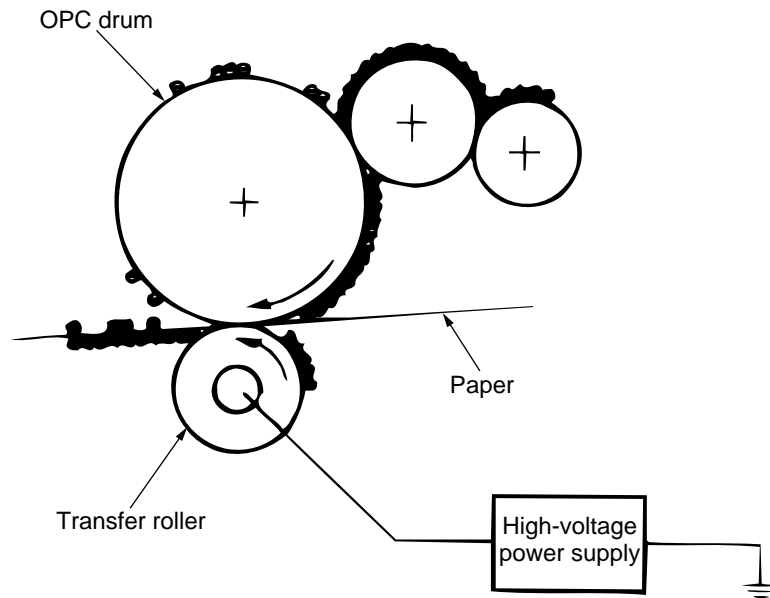


- ② The toner applied to the developing roller is thin-coated by the developing blade.
- ③ A toner adheres to the exposure part of the OPC drum in the contact part between the OPC drum and developing roller. This causes the electrostatic latent image to be changed to a visible image.

## (6) Transfer

The transfer roller is composed of conductive sponge material. This roller is set so that the surface of the OPC drum and sheets of paper will adhere closely.

A sheet of paper is placed on the surface of the OPC drum and the positive charge opposite to the negative charge of a toner is applied from the reverse side by the transfer roller.



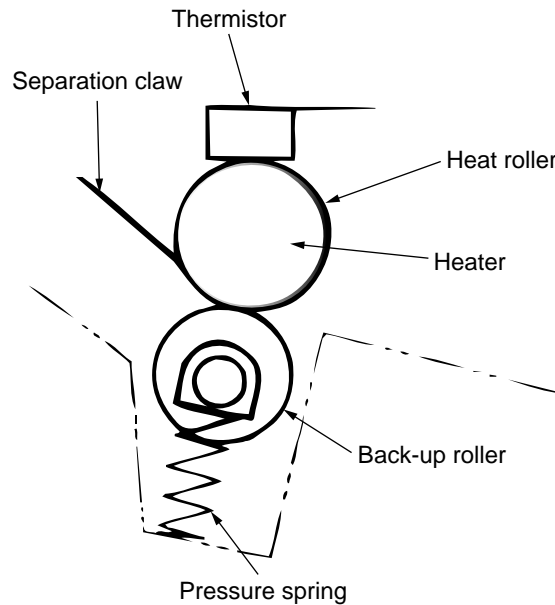
When a high positive voltage is applied from the power supply to the transfer roller, the positive charge induced on the surface of the transfer roller moves to the paper side at the contact part between the transfer roller and the sheet of paper. The positive charge on the lower side of the sheet of paper then causes the negatively charged toner adhering to the surface of the OPC drum to move to the upper side of the sheet. This enables transfer to the sheet of paper.

## (7) Fusing

The transferred unfused toner image is fused to a sheet of paper because heat and pressure are applied when it passes between the heat roller and back-up roller.

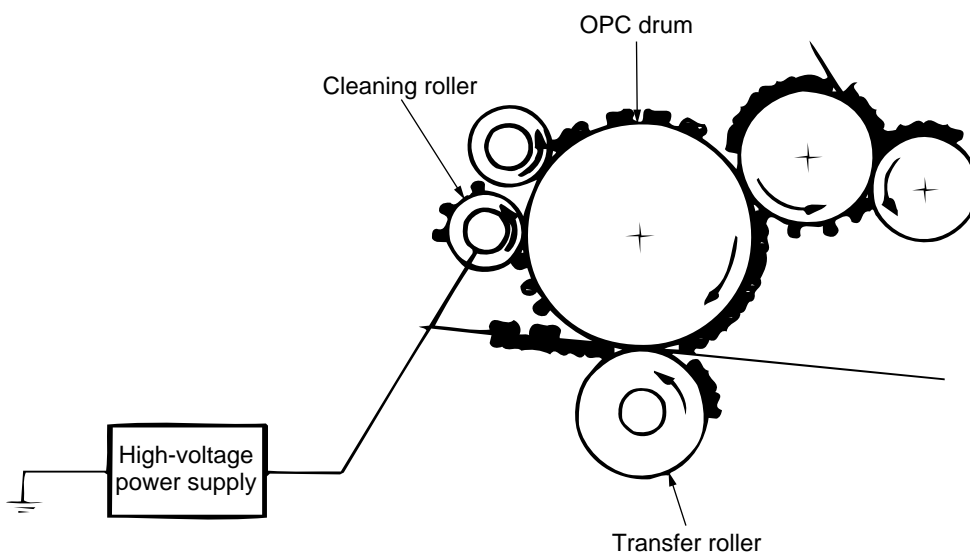
The Teflon-coated heat roller contains a 400 W heater (Halogen lamp) that heats the heat roller. The thermistor on the surface of the heat roller keeps the temperature of the heat roller constant. A thermostat is also installed for safety. If temperature rises abnormally, this thermostat opens to suspend voltage supply to the heater.

The back-up roller is pressurized to the heat roller by the pressure spring on each side.



## (8) Cleaning

After transfer has terminated, the cleaning roller temporarily draws in the untransferred residual toner adhering to the OPC drum with static electricity and then returns it to the OPC drum.



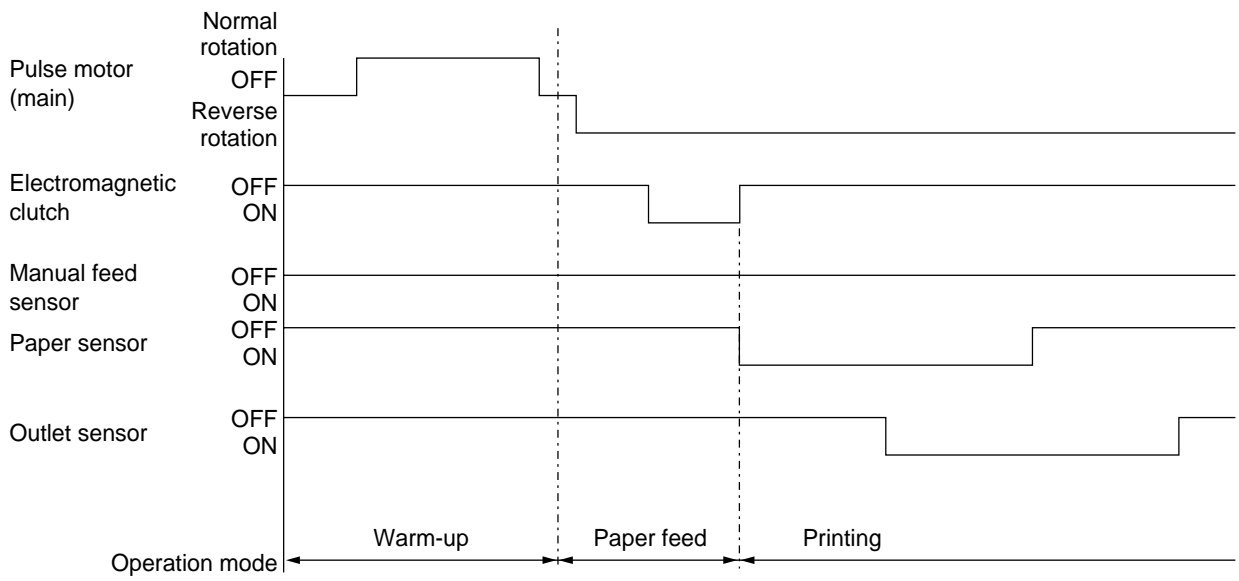
### 3. Paper Jam Detection

The OKIFAX 4580 monitors the paper status when the power supply is on and during printing. In the following cases, the OKIFAX 4580 ISDN interrupts the printing process as a paper jam. Printing can be recovered by opening the cover, removing the jammed paper, and closing the cover.

| Error            | Cause of Error  |
|------------------|---|
| Paper inlet jam  | <ul style="list-style-type: none"> <li>Only the manual feed sensor detects "Paper exists" when the power supply is on.</li> <li>The leading part of the paper does not reach the paper sensor although hopping operation was performed three time.</li> </ul> |
| Paper feed jam   | <ul style="list-style-type: none"> <li>The leading part of the paper does not reach the outlet sensor within a fixed time after it has passed the paper sensor.</li> </ul>  |
| Paper outlet jam | <ul style="list-style-type: none"> <li>The trailing part of the paper does not pass the outlet sensor within L mm after the leading part of the paper has passed the outlet sensor.</li> </ul> <p>2.52" (64 mm) ≤ L ≤ 15.77" (400.6 mm)</p>                   |
| Paper size error | <ul style="list-style-type: none"> <li>The trailing part of the paper does not pass the paper sensor within L mm after the leading part of the paper has passed the paper sensor.</li> </ul> <p>2.52" (64 mm) ≤ L ≤ 15.77" (400.6 mm)</p>                     |

| Type of Error    | Supervisory Sensor                            | Reference Value                           | Error |       |
|------------------|---|---|-------|-------|
|                  |   |   | Pluse | Minus |
| Paper feed error | Electromagnetic clutch ON/<br>Paper sensor ON | 69.8                                      | 35    |       |
| Paper feed jam1  | Paper sensor ON/<br>Outlet sensor ON          | 122.9                                     | 20.0  |       |
| Paper size error | Paper sensor ON/<br>Paper sensor OFF          | 2.52" (64 mm) ≤ L ≤<br>15.77" (400.56 mm) |       |       |
| Paper outlet jam | Outlet sensor ON/<br>Outlet sensor OFF        | 2.52" (64 mm) ≤ L ≤<br>15.77" (400.56 mm) | 45.0  | 45.0  |
| Paper feed jam 2 | Paper end sensor OFF/<br>Outlet sensor OFF    | 121.9                                     | 20.0  | 20.0  |

Unit: mm

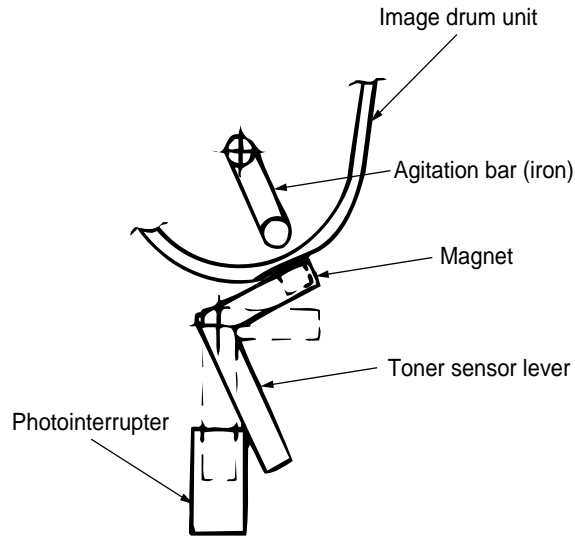


**Timing Chart for Paper Feed (Tray Feed)**

#### 4. Toner Low Detection

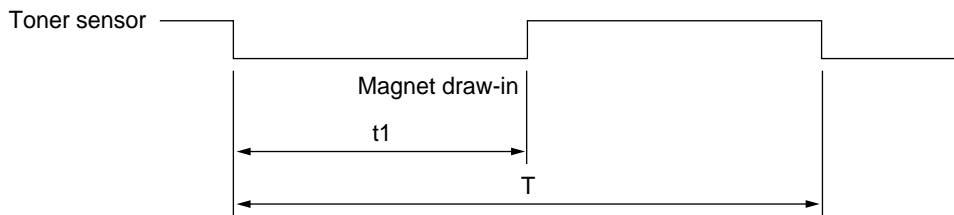
- Hardware configuration of toner sensor

The figure below shows the hardware configuration of the toner sensor.



**Hardware Configuration of Toner Sensor**

- Toner detection method



- (1) Toner sensor monitoring conditions are shown in the figure below.

**Caution:** The toner sensor is not monitored when the drum is inactive.

- (a) When the toner-low state continues twice, Toner Low occurs. (This state is monitored at a cycle of 40 milliseconds.)
- (b) When the toner-full state continues twice, Toner Low is released. (This state is monitored at a cycle of 40 milliseconds.)
- (c) When the toner sensor does not change over two cycles ( $T \times 2$ ), the toner sensor alarm state occurs.
- (d) After the EP unit has been replaced (after the drum counter has been reset), Toner Low is not detected when the drum counter indicates 1 to 100 counts.

- (2) The basic rotation cycle of the toner sensor is as follows:

|                                      |                           |
|--------------------------------------|---------------------------|
|                                      | T time                    |
| Basic rotation cycle of toner sensor | 4.9 sec.                  |
| Toner low time                       | $t1 > 1.2 \text{ sec.}$   |
| Toner full time                      | $1.2 \text{ sec.} > t1 >$ |

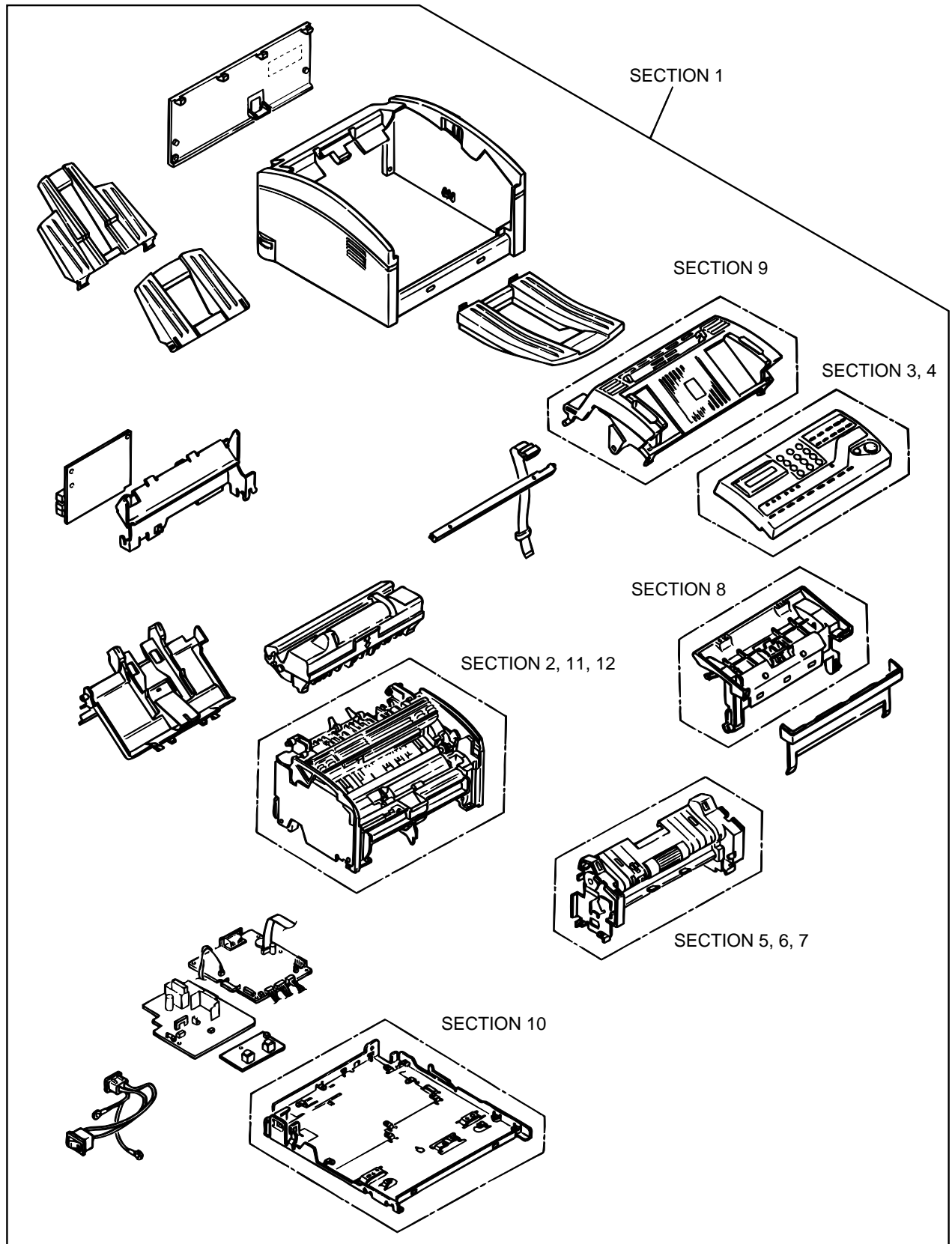


## 5. Cover Open

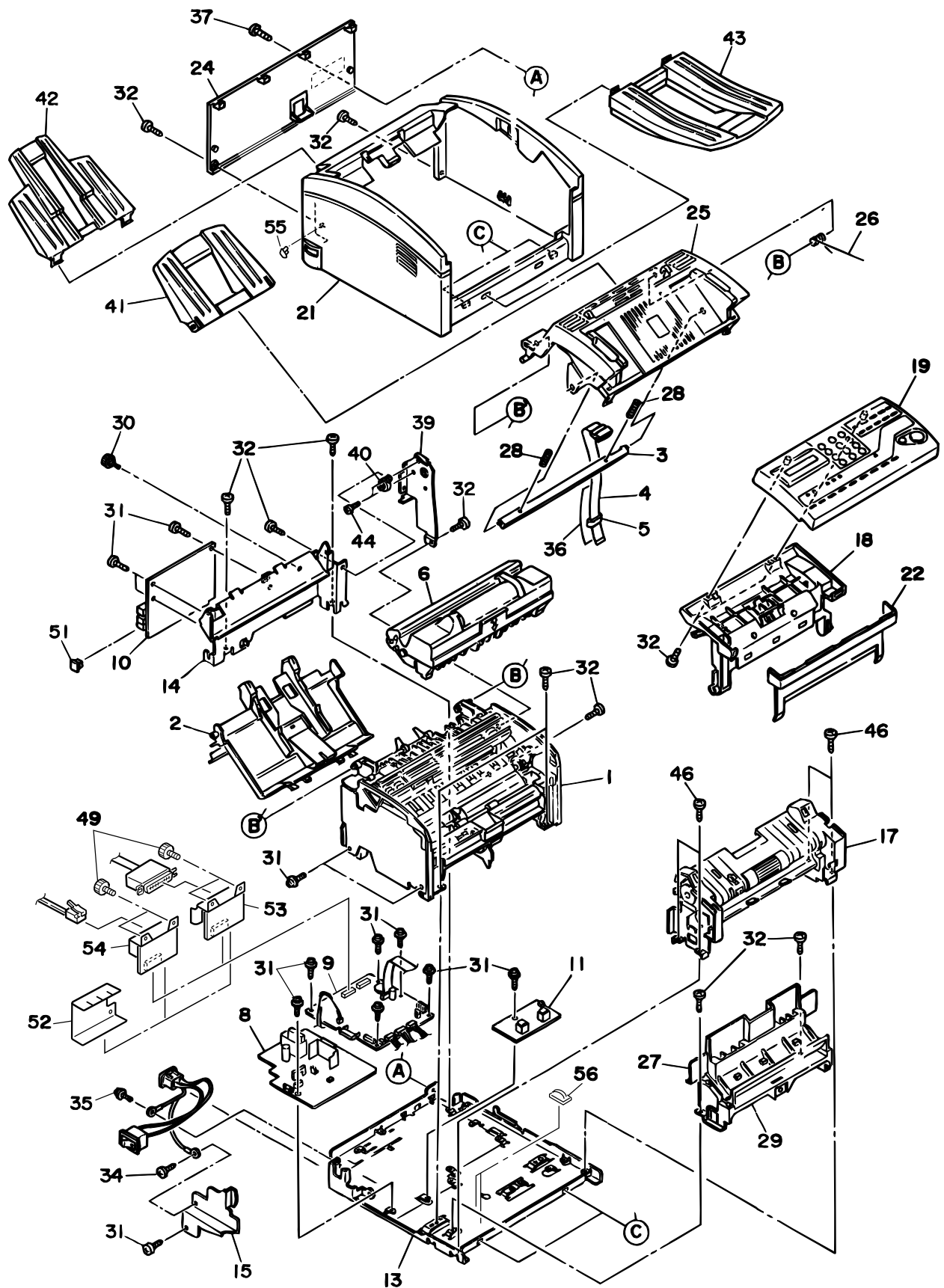
Opening the stacker cover turns off the microswitch on the high-voltage power supply board to suspend +5 V supply to the high voltage power supply. This results in the stop of all high-voltage outputs. At the same time, the CVOPN signal is issued to notify the main control board of the switch status and cover open processing is executed.

# APPENDIX C MECHANICAL EXPANDED VIEW DRAWING AND PARTS

## OKIFAX 4580 ASSEMBLY



# SECTION 1 CABINET ASSEMBLY (OKIFAX 4580)



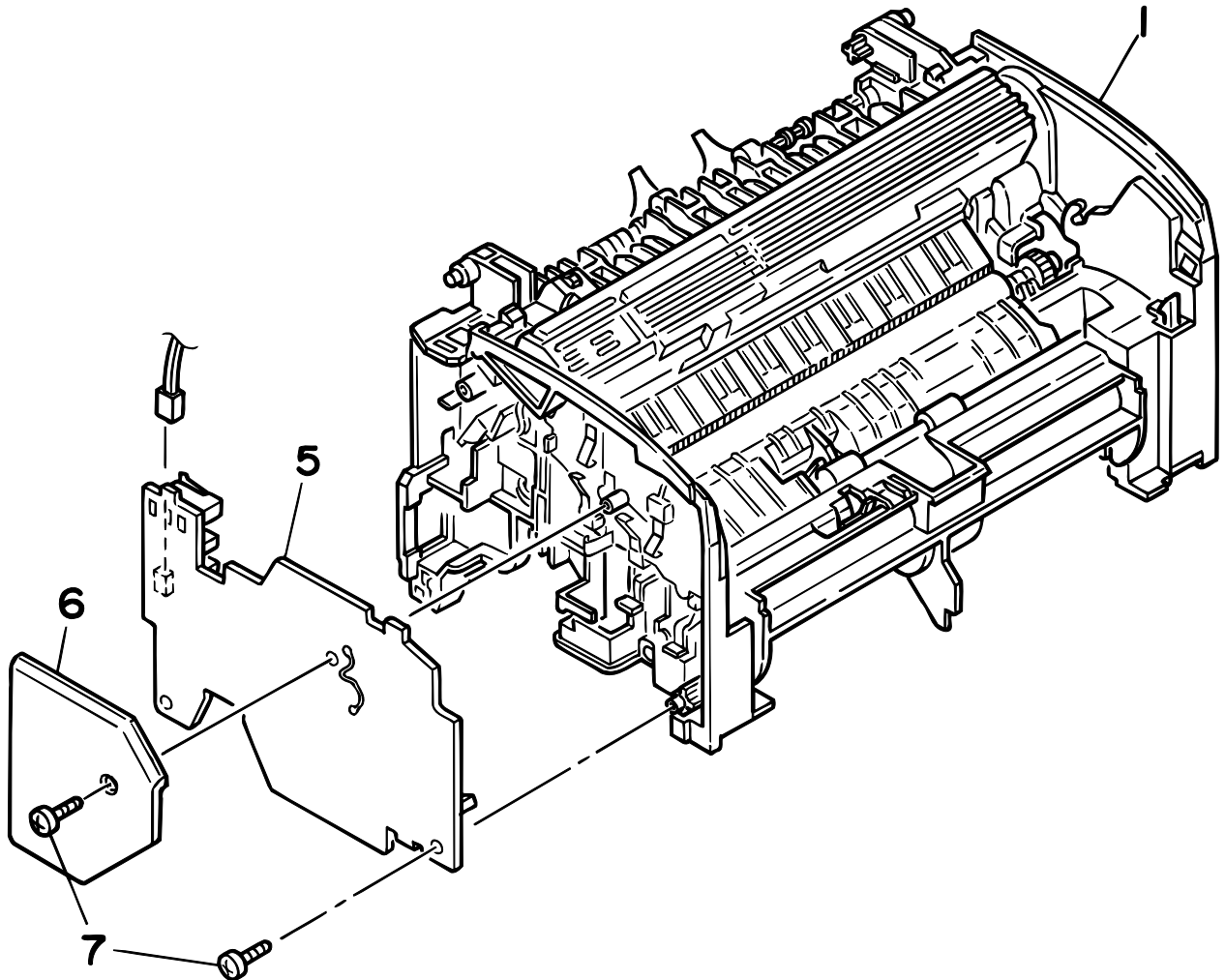
## Section 1 CABINET ASSEMBLY (OKIFAX 4580) 1/2

| Rev. | No.            | Oki parts Number    | Description                        | Q ty | Remarks                        |
|------|----------------|---------------------|------------------------------------|------|--------------------------------|
|      | 1              |                     | Unit-Printer                       |      | Refer to Section 11            |
|      | 2              |                     | HOLDER-ASSY                        |      | Refer to Section 11            |
|      | 3              |                     | LED HEAD General specification-31B | 1    | 56112101                       |
|      | 4a             | 41016104            | Cable-Flat-Assy                    | 1    |                                |
|      | 5              |                     |                                    |      | Refer to Section 13            |
|      | 6              | 40709901            | EP Unit Specification              | 1    | Consumable                     |
|      | 7              |                     |                                    |      |                                |
|      | 8a             | 40588801            | DC POWER SUPPLY UNIT (120V)        | 1    |                                |
|      | 8b             | 40588901            | DC POWER SUPPLY UNIT (230V)        | 1    |                                |
|      | 9              | 41999401            | Board-V46                          | 1    |                                |
| 2    | <del>10a</del> | <del>41143501</del> | <del>Board-EN9</del>               | 1    | <del>OEL (Europe)</del>        |
| 2    | 10a            | 42310701            | Board-EN2                          | 1    | OEL (Europe)                   |
|      | <del>10c</del> | <del>41172901</del> | <del>Board-G4N</del>               | 1    | <del>ISDN (Option)</del>       |
|      | 10d            | 41143901            | Board-INU                          | 1    | ODA (USA)                      |
|      | <del>10e</del> | <del>41143904</del> | <del>Board-INU</del>               | 1    | <del>INT (Singapore)</del>     |
|      | <del>10f</del> | <del>41143905</del> | <del>Board-INU</del>               | 1    | <del>NO-EC (East Europe)</del> |
|      | 11             | 40605601            | H.V. Board P6L                     | 1    |                                |
|      | 12             |                     |                                    |      |                                |
|      | 13             | 40672901            | Plate Assy.-Base (A)               | 1    |                                |
|      | 14a            | 40023901            | Bracket-Package                    | 1    | ODA, INT, AUS                  |
|      | 14b            | 42422901            | Plate Assy. - Package              | 1    | OEL                            |
|      | 15             | 40236401            | Plate Assy. - Shield (HV)          | 1    |                                |
|      | 16             |                     |                                    |      |                                |
|      | 17             | 41767002            | Frame Assy.-Scanner L              | 1    | 300dpi                         |
|      | 18             | 41766704            | Frame Assy.-Scanner (U)            | 1    |                                |
|      | 19             |                     | OPE Panel Assy.                    | 1    | Refer to Section 3, 4          |
|      | 20             |                     |                                    |      |                                |
|      | 21             | 40606501            | Cover-Main (A)                     | 1    |                                |
|      | 22             | 40025301            | Cover-Front                        | 1    |                                |
|      | 23             |                     |                                    |      |                                |
|      | 24             | 42282201            | Cover-Rear                         | 1    |                                |
|      | 25             | 40672801            | Cover Assy.-Top (A)                | 1    |                                |
|      | 26             | 40026101            | Spring-TC                          | 1    |                                |
|      | 27             | 40024001            | Guide-Paper (U)                    | 1    |                                |
|      | 28             | 4PP4083-6168P001    | HEAD Spring                        | 2    |                                |
|      | 29             | 40024101            | Guide-Paper (L)                    | 1    |                                |
|      | 30             |                     |                                    |      |                                |
|      | 31             |                     | <del>B Tapping Screw</del>         |      |                                |
|      | 32             |                     | <del>B Tapping Screw FA</del>      |      |                                |
|      | 33             |                     | <del>B Screw B</del>               |      |                                |
|      | 34             |                     | <del>Screw</del>                   |      |                                |
|      | 35             |                     | <del>Screw</del>                   | 1    |                                |
|      | 36             | 40773601            | <del>Sheet Shield (LED)</del>      | 1    |                                |
|      | 37             |                     | <del>PSW2 W3-10C Screw</del>       | 2    |                                |
|      | 38             |                     |                                    |      |                                |
|      | 39             | 40140801            | Bracket-Damper                     | 1    |                                |
|      | 40             | 40148201            | Gear-Damper                        | 1    |                                |

## Section 1 CABINET ASSEMBLY (OKIFAX 4580) 2/2

| Rev. | No.           | Oki parts Number            | Description                        | Q ty         | Remarks                                 |
|------|---------------|-----------------------------|------------------------------------|--------------|---|
|      | 41            | 40025701                    | Tray-Document                      | 1            |   |
|      | 42            | 40025801                    | Tray-Paper                         | 1            |   |
|      | 43            | 40375801                    | Stacker Assy.-Document             | 1            |   |
|      | 44            |                             | Screw-Tapping (S-M2)               |              |   |
|      | 45            |                             |                                    |              |   |
|      | 46            |                             | <del>Cup Screw B</del>             |              |   |
|      | 47            |                             |                                    |              |   |
|      | 48            |                             |                                    |              |   |
|      | <del>49</del> | <del>4PB4120-1136P001</del> | <del>Knob Screw</del>              | <del>2</del> | <del>Option (PC I/F or ichip NIC)</del> |
|      | <del>50</del> | <del>NB3201-1211P001</del>  | <del>CARRIER SHEET</del>           | <del>1</del> | <del>GER, TENOVIS</del>                 |
|      | <del>51</del> | <del>223A7010P0003</del>    | <del>TM-6-DC1 Connector-Plug</del> | <del>1</del> | <del>GER, TENOVIS</del>                 |
|      | 52            | 42282501                    | Plate - Shield (FG)                | 1            | Option (PC I/F or ichip NIC)            |
|      | 53            | 42353304                    | Card-CT2 Spare Parts               | 1            | Option (PC I/F)                         |
|      | 54            | 42353404                    | Card-ICP Spare Parts               |              | Option (i chip NIC)                     |
|      | 55            | 41345101                    | Cap-TEL_IF                         | 1            |   |

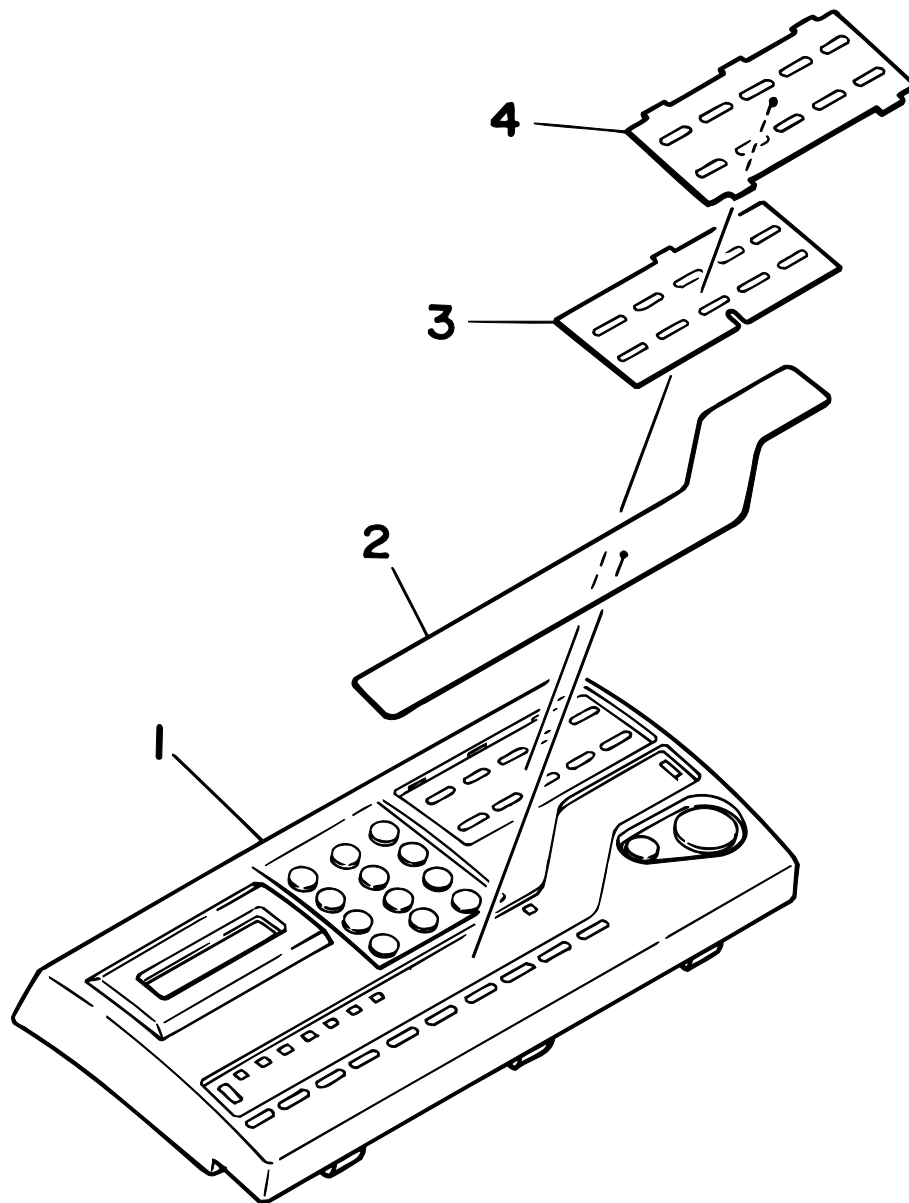
SECTION 2 UNIT-PRINTER



**Section 2 UNIT-PRINTER**

| Rev. | No. | Oki parts Number | Description           | Q ty | Remarks        |
|------|-----|------------------|-----------------------|------|----------------|
|      | 1   |                  | Printer Unit Assembly |      | See Section 11 |
|      | 2   |                  |                       |      |                |
|      | 3   |                  |                       |      |                |
|      | 4   |                  |                       |      |                |
|      | 5   | 40607401         | H.V. Board P2H        | 1    |                |
|      | 6   | 40413401         | Cover-HV              | 1    |                |
|      | 7   |                  | <del>Screw F</del>    |      |                |

### SECTION 3 OPE PANEL



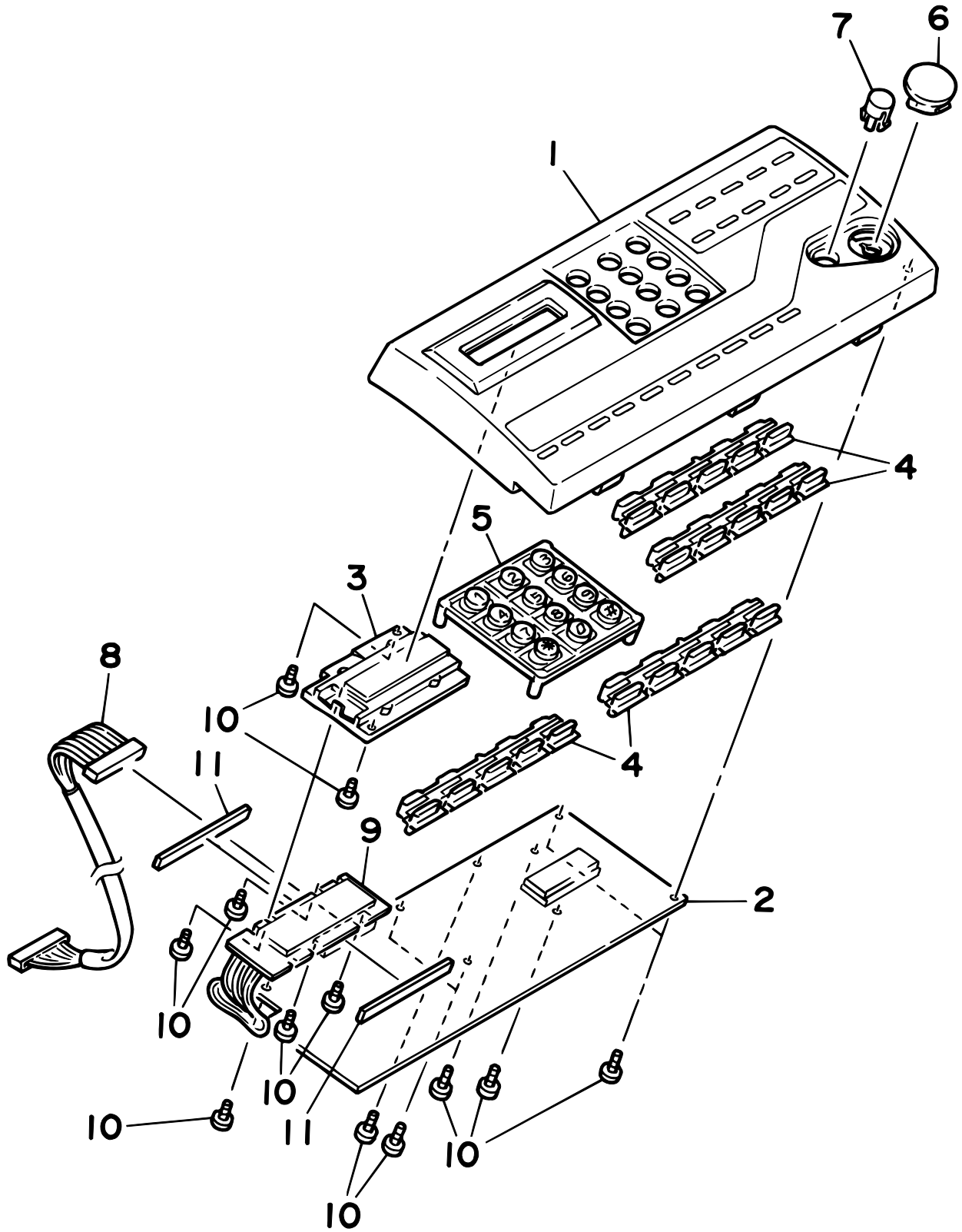


**Section 3 OPE PANEL**

| Rev. | No. | Oki parts Number | Description      | Q ty | Remarks            |
|------|-----|------------------|------------------|------|--------------------|
|      | 1   | 41766905         | OP Panel Assy.   | 1    | ODA/OEL/INT/AUS *1 |
|      | 2   | 40682812         | Sheet-Function   | 1    | ODA/INT/AUS        |
|      | 3   | 41254704         | Sheet-O-051_2net | 1    | ODA/INT/AUS        |
|      | 4   | 40023601         | Sheet-Cover      | 1    |                    |

\* 1: The parts include Item No.13-2 : 40040001 Connection Cord-Wire(OPE).

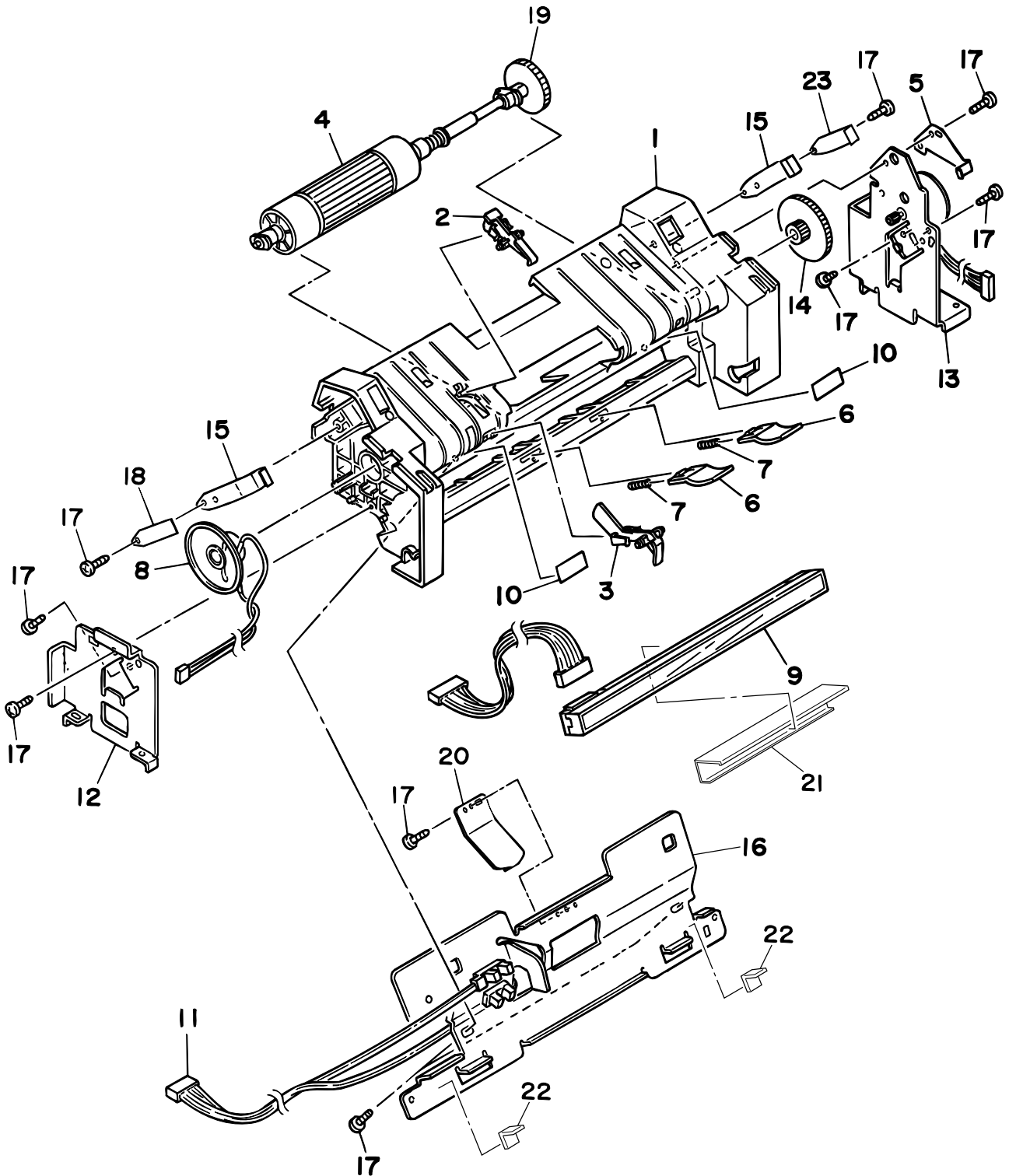
### SECTION 4 OPEPANEL (OPERATION PANEL) ASSEMBLY



**Section 4 OPE PANEL ASSEMBLY**

| Rev. | No.          | Oki parts Number            | Description                 | Q ty         | Remarks |
|------|--------------|-----------------------------|-----------------------------|--------------|---------|
|      | 1            |                             | Case-OPE(T)                 | 1            |         |
| 2    | <del>2</del> | <del>40086701</del>         | <del>Board-04W</del>        | <del>1</del> |         |
| 2    | 2            | 42305901                    | Board-04S                   | 1            |         |
|      | 3            | 40023001                    | Holder-LCD                  | 1            |         |
|      | 4            | 40023101                    | Button-Function             | 4            |         |
|      | <del>5</del> | <del>2PP4120-1067P001</del> | <del>Ten Key (Round)</del>  | 1            |         |
|      | 6            | 40023206                    | Button-Start                | 1            | OKI     |
|      |              |                             |                             |              |         |
|      | 7            | 40023306                    | Button-Stop                 | 1            | OKI     |
|      |              |                             |                             |              |         |
|      | <del>9</del> | <del>4YB4134-1009P001</del> | <del>LCD</del>              | 1            |         |
|      | 10           |                             | <del>B SCREW A</del>        |              |         |
|      | 11           | <del>4PB4120-1113P001</del> | <del>Rubber Connector</del> | 2            |         |

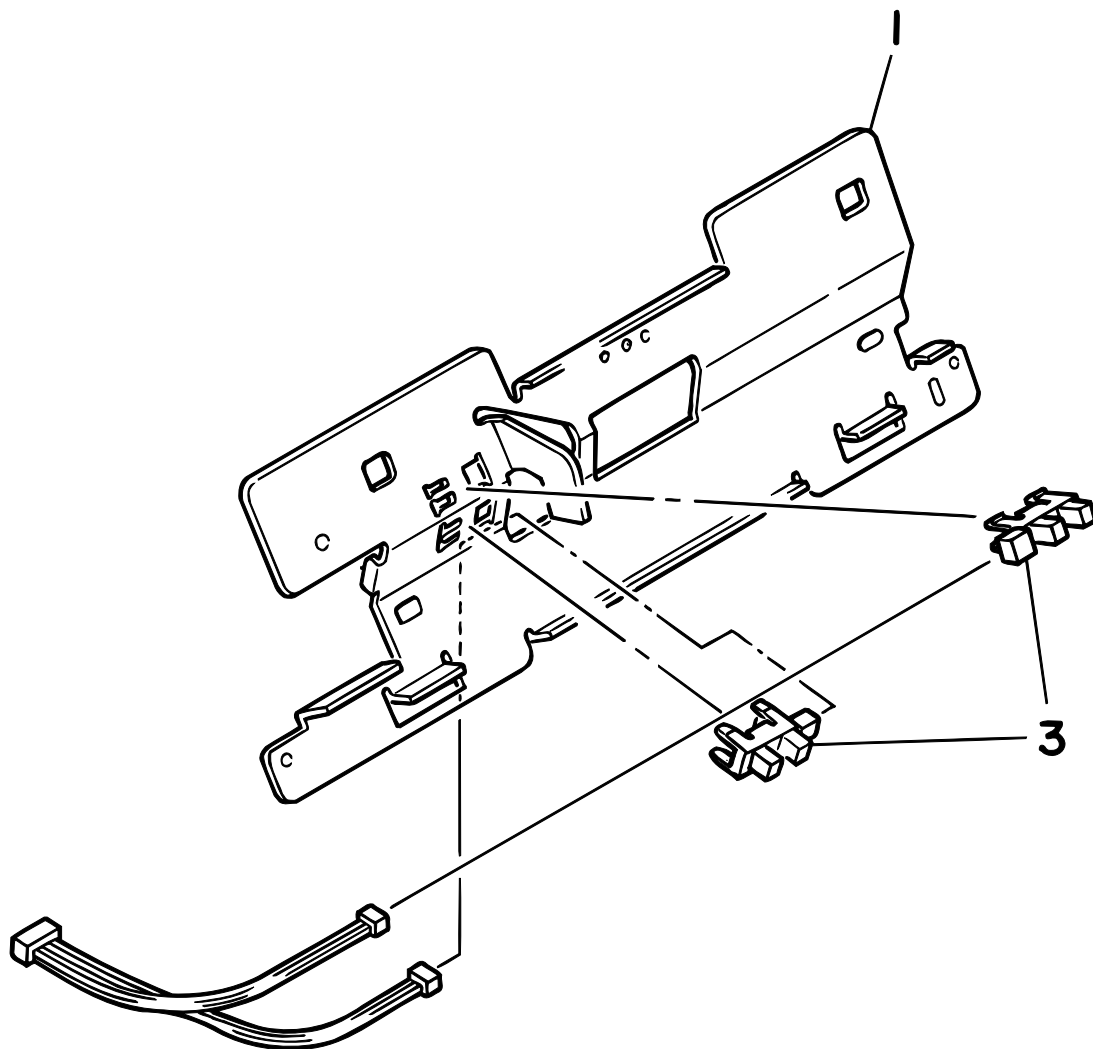
### SECTION 5 FRAME ASSEMBLY-SCANNER (L)



## Section 5 FRAME ASSEMBLY-SCANNER L

| Rev. | No. | Oki parts Number | Description                        | Q ty | Remarks             |
|------|-----|------------------|------------------------------------|------|---------------------|
|      | 1   |                  | Frame-Scanner (L)                  |      |                     |
|      | 2   | 40019401         | Lever-PC1                          | 1    |                     |
|      | 3   | 40019501         | Lever-PC2                          | 1    |                     |
|      | 4   | 40019601         | Roller Assy.-ADF                   | 1    |                     |
|      | 5   | 40020201         | Plate-Earth ADF                    | 1    |                     |
|      | 6   | 40020601         | Piece-Exit                         | 2    |                     |
|      | 7   | 40020703         | Spring-Exit                        | 2    |                     |
|      | 8   | 40127501         | CONN Cord-Speaker                  | 1    |                     |
|      | 9   | 40141401         | CONTACT IMAGE SENSOR-A4            | 1    | 300dpi              |
|      | 10  | 40644701         | Film-Guide (CIS)                   | 2    |                     |
|      | 11  |                  |                                    |      | Refer to Section 13 |
|      | 12  |                  | <del>Plate-Scanner (L)</del>       | 1    |                     |
|      | 13  |                  | <del>Plate Assy.-Scanner (R)</del> | 1    |                     |
|      | 14  | 40020301         | Gear-Z95/14                        | 1    |                     |
|      | 15  | 40020501         | Spring-Latch                       | 2    |                     |
|      | 16  |                  | Plate Assy.-Scanner (B)            | 1    |                     |
|      | 17  |                  | <del>B Screw FA</del>              |      |                     |
|      | 18  | 40153801         | Spring-Reinforcement               | 1    |                     |
|      | 19  | 40025201         | Gear-Z38                           | 1    |                     |
|      | 20  | 40024501         | Spring-CIS                         | 1    |                     |
|      | 21  | 41667901         | Plate-Earth_CIS                    | 1    |                     |
|      | 22  | 41734401         | Foam-Shielding                     | 2    |                     |
|      | 23  | 40899901         | Spring-Reinforcement_Add_Work      | 1    |                     |

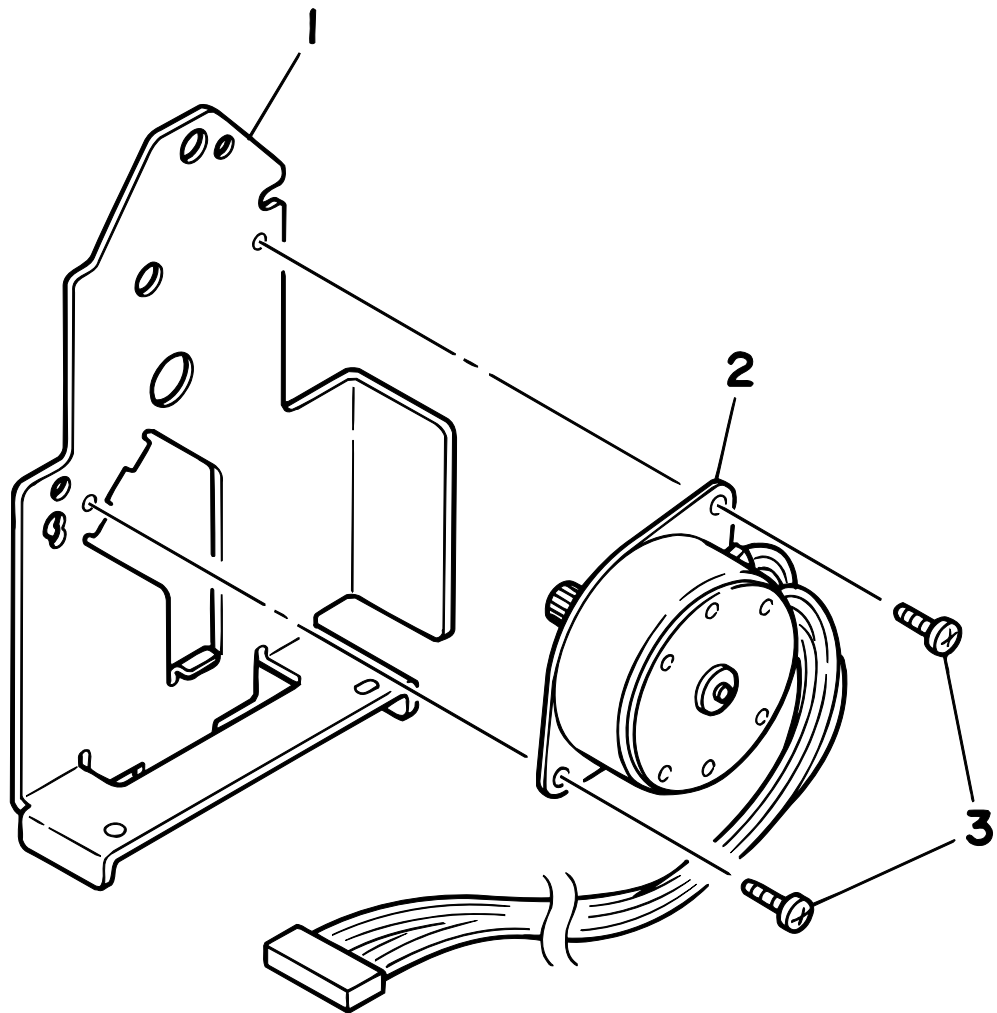
SECTION 6 PLATE ASSEMBLY-SCANNER (B)



**Section 6 PLATE ASSEMBLY-SCANNER (B)**

| Rev. | No. | Oki parts Number | Description                  | Q ty | Remarks |
|------|-----|------------------|------------------------------|------|---------|
|      | 1   |                  | <del>Plate Scanner (B)</del> |      |         |
|      | 2   |                  |                              |      |         |
|      | 3   | 40135301         | Photo-Interrupter            | 2    |         |

SECTION 7 PLATE ASSEMBLY-SCANNER (R)

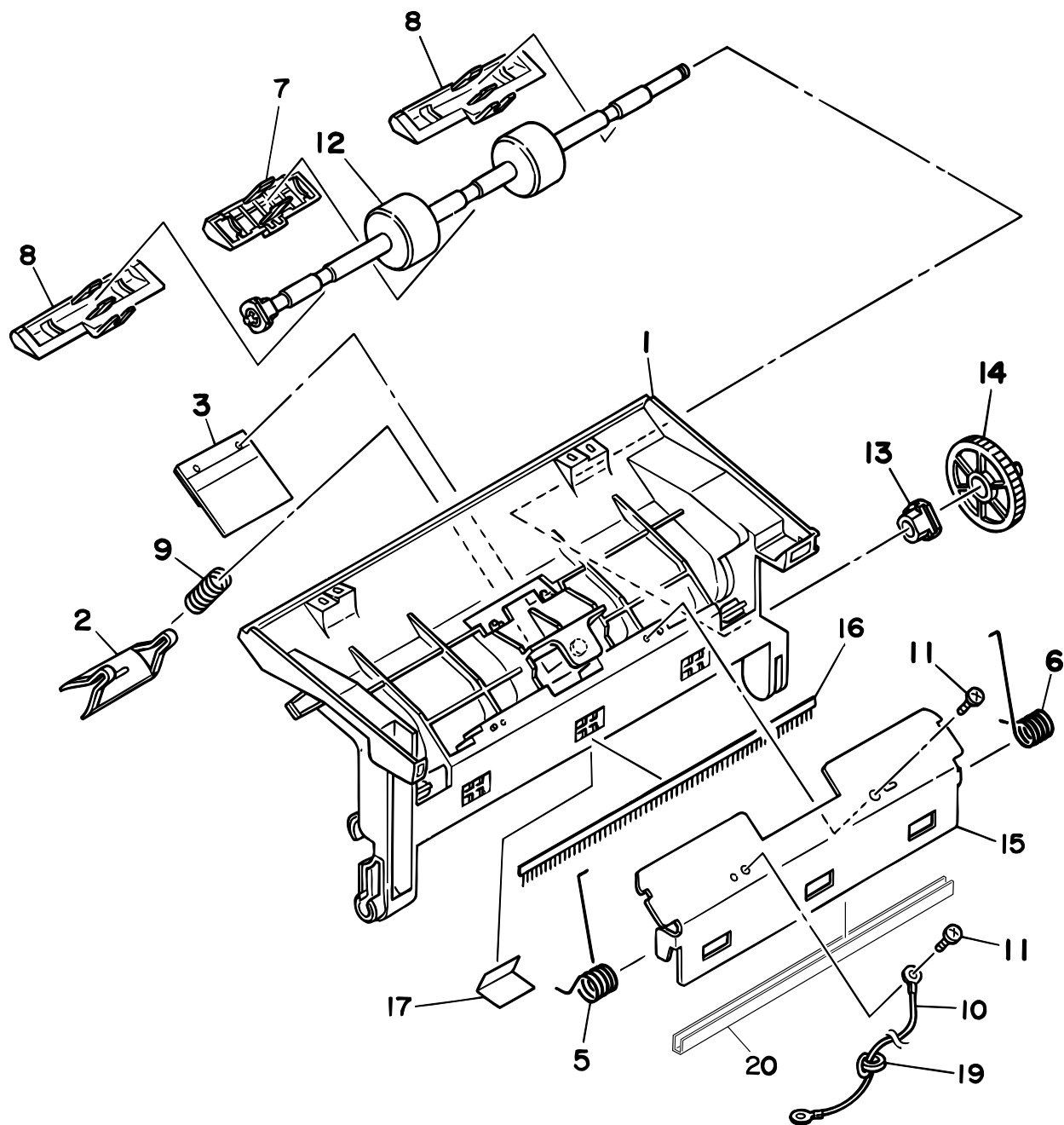




**Section 7 PLATE ASSEMBLY-SCANNER (R)**

| Rev. | No. | Oki parts Number | Description       | Q ty | Remarks |
|------|-----|------------------|-------------------|------|---------|
|      | 1   |                  | Plate-Scanner (R) | 1    |         |
|      | 2   | 56513101         | S-Motor 151/175   | 1    |         |
|      | 3   |                  | B SCREW FA        |      |         |

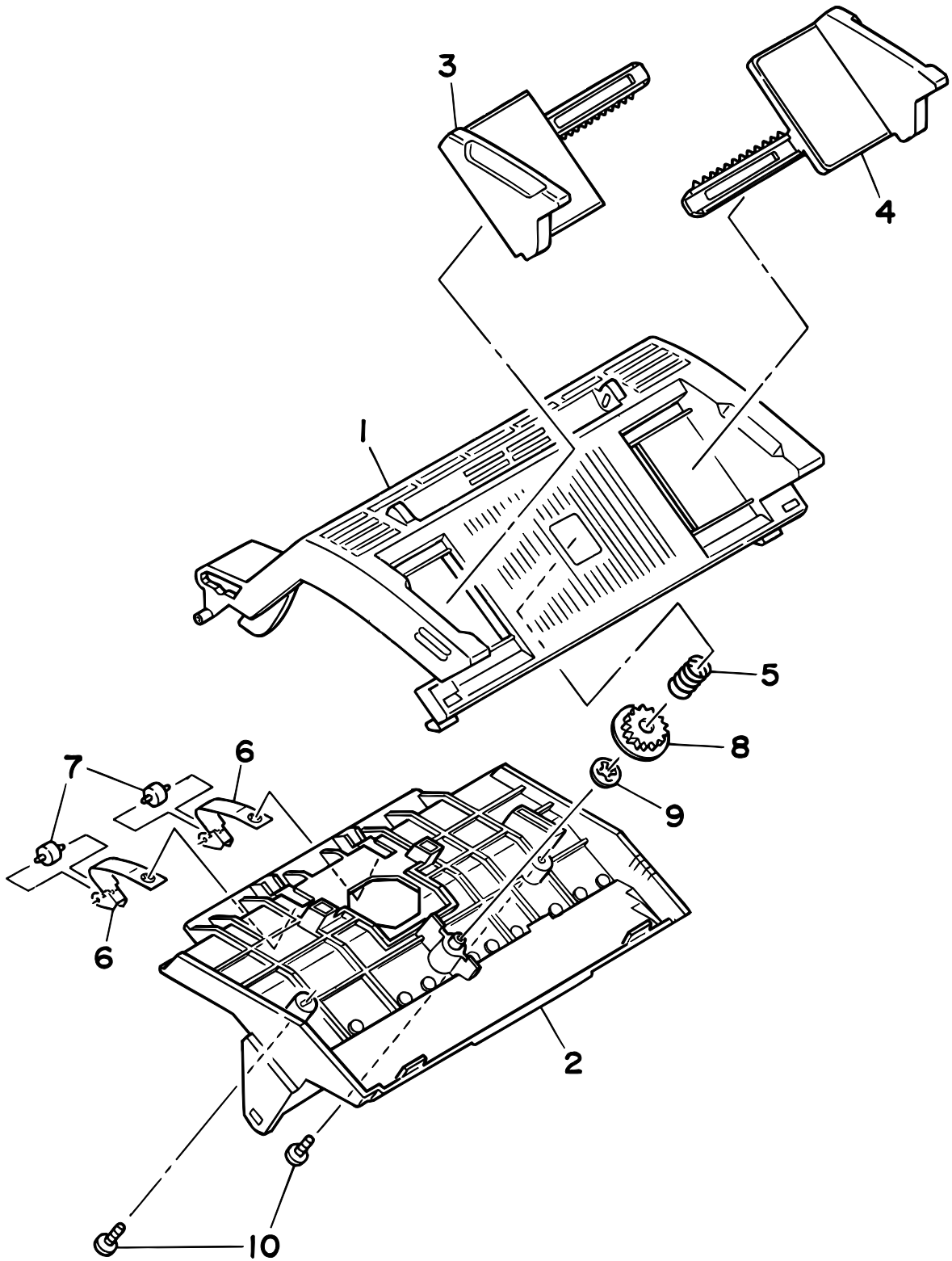
### SECTION 8 FRAME ASSEMBLY-SCANNER (U)



**Section 8 FRAME ASSEMBLY-SCANNER (U)**

| Rev. | No. | Oki parts Number        | Description                | Q ty | Remarks |
|------|-----|-------------------------|----------------------------|------|---------|
|      | 1   | 40021002                | Frame-Scanner (U)          | 1    |         |
|      | 2   | 4PP3527-5153P001        | BACK-UP PLATE              | 1    |         |
|      | 3   | 40267001                | SEPARATION RUBBER ASSEMBLY | 1    |         |
|      |     |                         |                            |      |         |
|      | 5   | 40021401                | Spring-Pinch (L)           | 1    |         |
|      | 6   | 40021501                | Spring-Pinch (R)           | 1    |         |
|      | 7   | 40745802                | Guide-Sensor (A)           | 1    |         |
|      | 8   | 40021702                | Guide-Sensor (B)           | 2    |         |
|      | 9   | 40481101                | ADF SPRING                 | 1    |         |
|      | 10  | 40199101                | Cord-Earth                 | 1    |         |
|      | 11  |                         | B SCREW FA                 |      |         |
|      | 12  | 40021202                | Roller Assy.-Sensor        | 1    |         |
|      | 13  | 40022001                | Bearing-S                  | 1    |         |
|      | 14  | 40020801                | Gear-Z31                   | 1    |         |
|      | 15  |                         | Plate-Support              | 1    |         |
|      | 16  | 40026301                | Bar-Discharge              | 1    |         |
|      | 17  | 40461301                | Film-Exit (DOC)            | 1    |         |
|      | 18  |                         |                            |      |         |
|      | 19  | <del>4051002C0001</del> | <del>TR-13-7-6 Core</del>  | 1    |         |
|      | 20  | 41592101                | Tape-Insulation            | 1    | L=200mm |

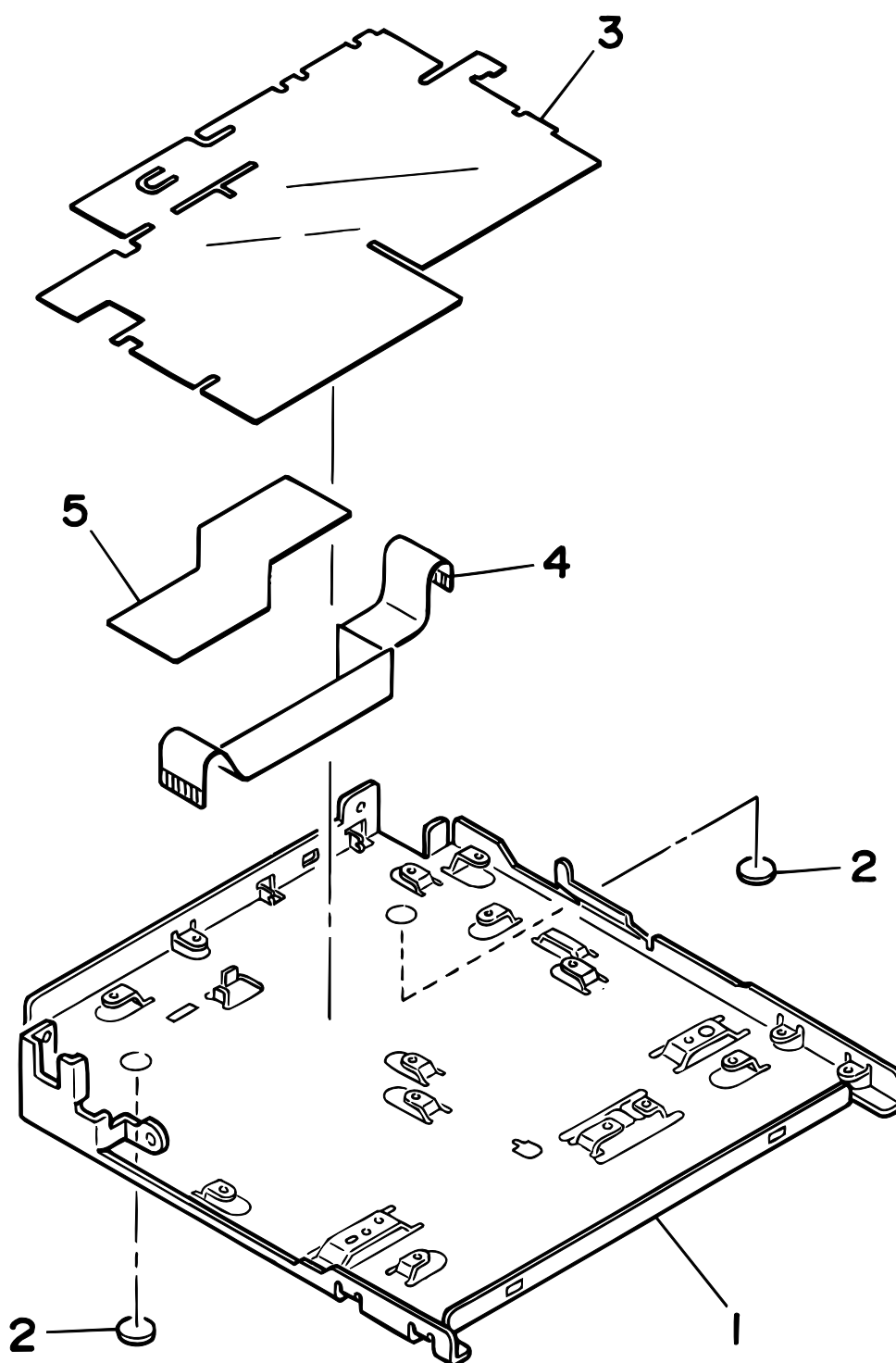
SECTION 9 COVER ASSEMBLY-TOP



**Section 9 COVER ASSEMBLY-TOP**

| Rev. | No. | Oki parts Number | Description                   | Q ty | Remarks |
|------|-----|------------------|-------------------------------|------|---------|
|      | 1   | 40672801         | Cover-Top                     | 1    |         |
|      | 2   | 40606701         | Holder-LED (A)                | 1    |         |
|      | 3   |                  | <del>Guide-Document (L)</del> | 1    |         |
|      | 4   |                  | <del>Guide-Document (R)</del> | 1    |         |
|      | 5   | 40022601         | Spring-D                      | 1    |         |
|      | 6   | 4PP4128-1268P001 | <del>PLATE EXIT</del>         | 2    |         |
|      | 7   | 4PP4083-2024P001 | <del>EJECT ROLLER A</del>     | 2    |         |
|      | 8   | 4PP4083-2328P003 | <del>PINION GEAR B</del>      | 1    |         |
|      | 9   |                  | <del>CS RING</del>            |      |         |
|      | 10  |                  | <del>B SCREW FA</del>         |      |         |

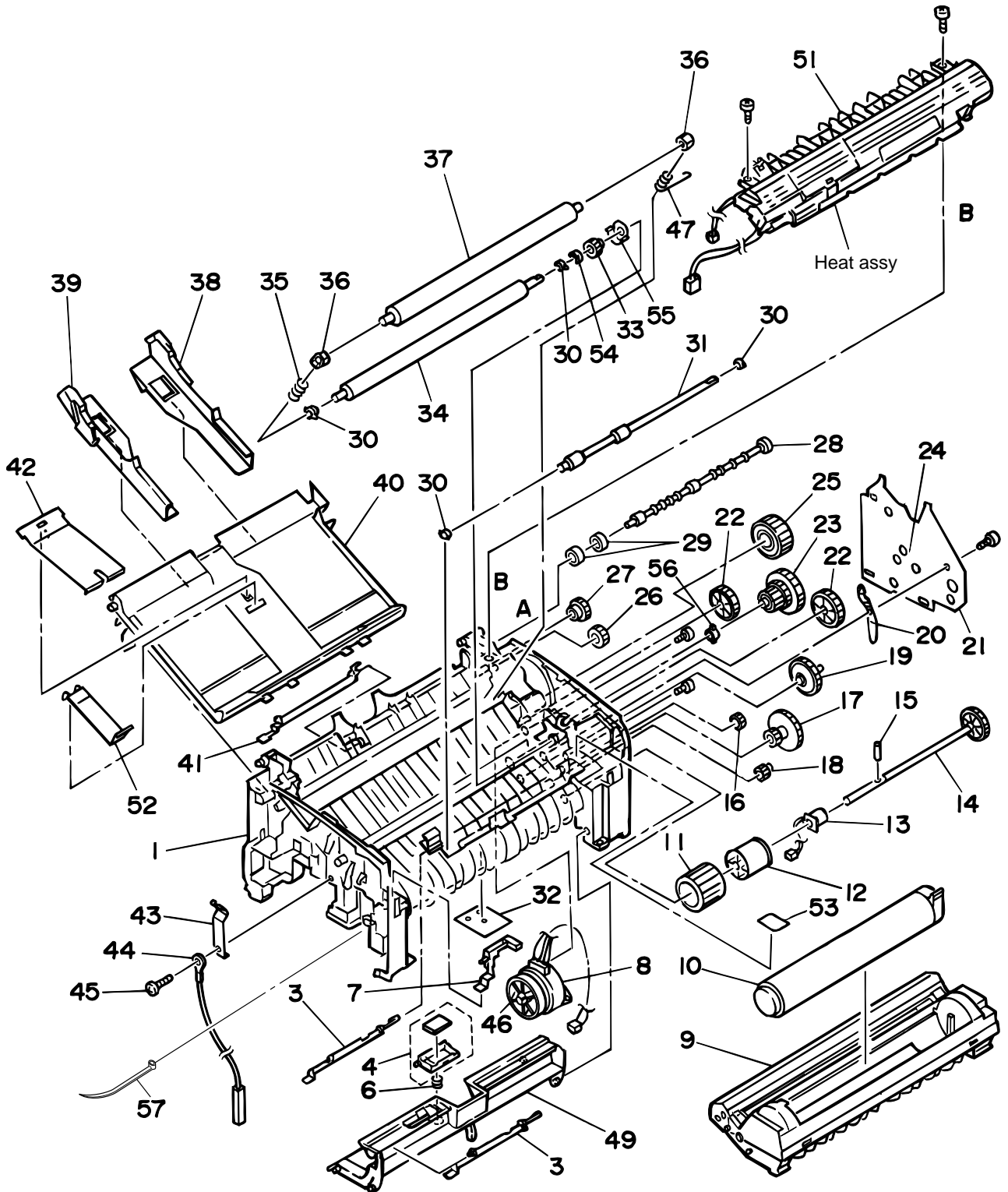
### SECTION 10 PLATE ASSEMBLY-BASE



**Section 10 PLATE ASSEMBLY-BASE**

| Rev. | No. | Oki parts Number | Description             | Q ty | Remarks |
|------|-----|------------------|-------------------------|------|---------|
|      | 1   |                  | <del>Plate-Base A</del> | 1    |         |
|      | 2   |                  | Rubber Foot             | 2    |         |
|      | 3   | 40606901         | Sheet-Insulation        | 1    |         |
|      | 4   | 40128001         | Cord-Falt (FUJI CARD)   | 1    |         |
|      | 5   |                  | <del>Sheet-FG</del>     | 1    |         |

### SECTION 11 PRINTER BASE FRAME UNIT





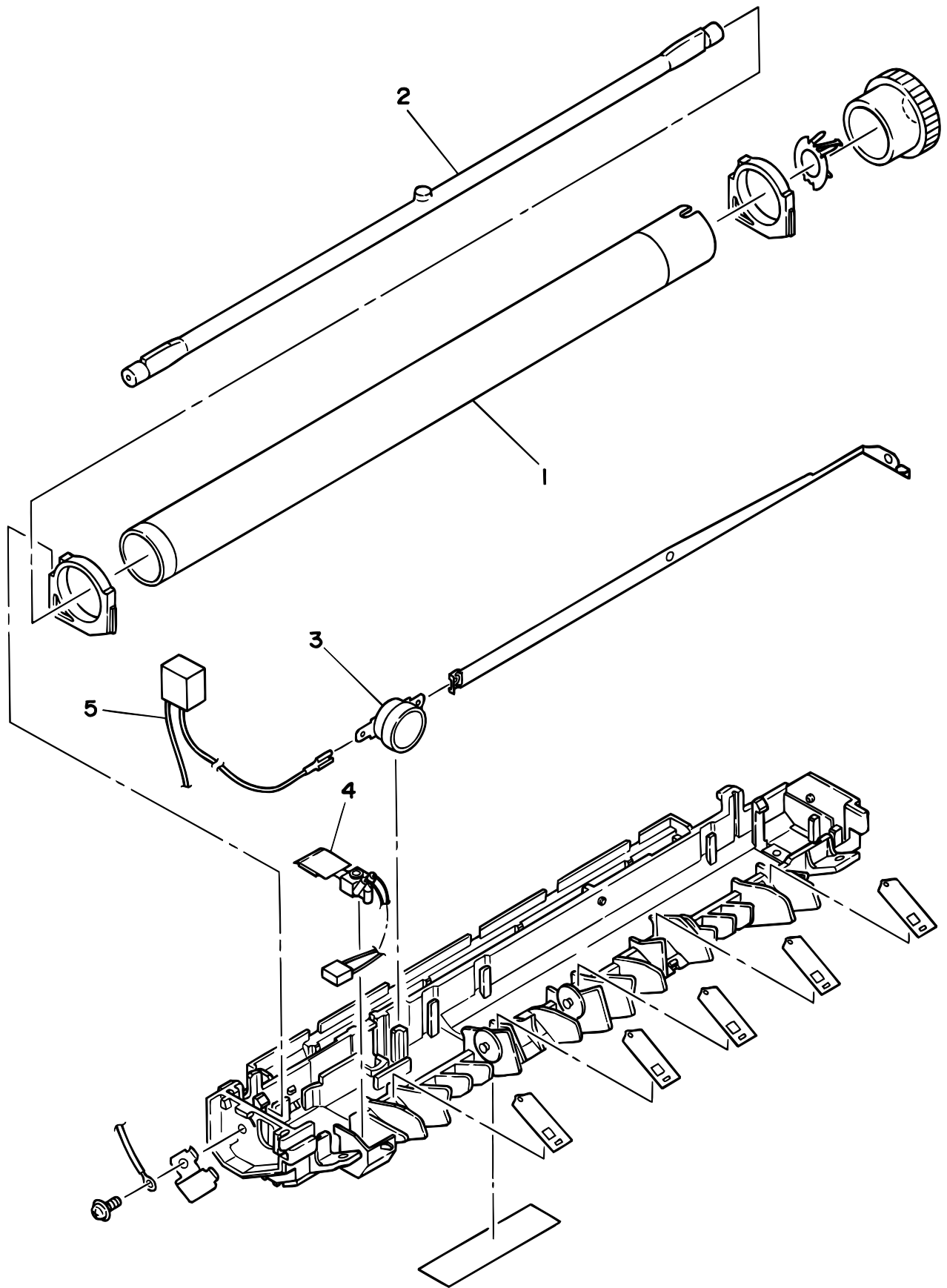
## Section 11 PRINTER BASE FRAME UNIT 1/2

| Rev. | No. | Oki parts Number            | Description                            | Q ty | Remarks    |
|------|-----|-----------------------------|--|------|------------|
|      | 1   | 40593201                    | Frame Unit Assy                        | 1    |            |
|      | 2   |                             |  |      |            |
|      | 3   | 3PP4083-1191P001            | Paper Sensor E                         | 2    |            |
|      | 4   | 40721301                    | Separator Assy                         | 1    |            |
|      | 5   |                             |  |      |            |
|      | 6   | 40781701                    | Compression Spring S                   | 1    |            |
|      | 7   | 3PA4083-1193G001            | Toner Sensor Assy.                     | 1    |            |
|      | 8   | 40496401                    | Moter-Pulse                            | 1    |            |
|      | 9   |                             | Ep Unit                                | 1    | Consumable |
|      | 10  |                             | Toner Cartridge Unit                   | 1    | Consumable |
|      | 11  | 40779601                    | Hopping Roller                         | 1    |            |
|      | 12  | 3PP4083-1128P001            | Roller Holder (Hopping Roller)         | 1    |            |
|      | 13  | 3PB4083-1127P001            | Magnet H (Hopping Shaft)               | 1    |            |
|      | 14  | 3PA4083-1133G001            | Hopping Shaft Assy.                    | 1    |            |
|      | 15  | NK2-10-SUS                  | Knock Pin                              | 1    |            |
|      | 16  | 4PP4083-1143P001            | Idle Gear R                            | 1    |            |
|      | 17  | 3PP4083-1184P001            | Idle Gear 2R                           | 1    |            |
|      | 18  | 3PP4083-1142P001            | Gear R                                 | 1    |            |
|      | 19  | 2PP4083-1181P001            | Idle Gear M                            | 1    |            |
|      | 20  | 3PP4083-1189P001            | Earth Plate A                          | 1    |            |
|      | 21  | 3PP4083-1188P001            | Plate Side M                           | 1    |            |
|      | 22  | 3PP4083-1182P001            | Idle Gear P                            | 2    |            |
|      | 23  | 40721001                    | Idle Gear 3R                           | 1    |            |
|      | 24  | <del>4PP4083-1165P001</del> | <del>Tension Plate</del>               | 1    |            |
|      | 25  | <del>3PP4083-1185P001</del> | <del>Idle Gear Heat</del>              | 1    |            |
|      | 26  | <del>4PP4083-1186P001</del> | <del>Idle Gear E (A)</del>             | 1    |            |
|      | 27  | <del>3PP4083-1187P001</del> | <del>Idle Gear E (B)</del>             | 1    |            |
|      | 28  | <del>3PP4083-1170P001</del> | <del>Drive Shaft E (Eject)</del>       | 1    |            |
|      | 29  | 40074601                    | Eject Roller                           | 2    |            |
|      | 30  | <del>3PP4083-1141P001</del> | <del>Resistraton Bearing</del>         | 5    |            |
|      | 31  | <del>3PB4083-1140P001</del> | <del>Resistraton Rotter</del>          | 1    |            |
|      | 32  | 41802101                    | Film-Guide_F                           | 1    |            |
|      | 33  | 40737801                    | Gear T                                 | 1    |            |
|      | 34  | 40713601                    | Transfer Roller                        | 1    |            |
|      | 35  | <del>4PP4083-1136P001</del> | <del>Spring pressure (L)</del>         | 1    |            |
|      | 36  | <del>3PP4083-1161P001</del> | <del>Bearing BU (Back Up Roller)</del> | 2    |            |
|      | 37  | 40594601                    | Pressure Roller B (Back Up Roller)     | 1    |            |
|      | 38  | 3PP4083-1233P001            | Paper Guide (R)                        | 1    |            |
|      | 39  | <del>3PP4083-1232P001</del> | <del>Paper Guide (L)</del>             | 1    |            |
|      | 40  | 1PP4083-1231P001            | Paper Holder                           | 1    |            |
|      | 41  | 3PP4083-1192P001            | Paper Sensor Exit                      | 1    |            |
|      | 42  | 41802001                    | Spring-Hopper_F                        | 1    |            |
|      | 43  | 40638001                    | Contact-CB                             |      |            |
|      | 44  | 40638102                    | Conn, Cord-HV                          |      |            |
|      | 45  |                             | Screw                                  |      |            |
|      | 46  | 40625401                    | Fan                                    | 1    |            |
|      | 47  | <del>4PP4083-1137P001</del> | <del>Spring Pressure (R)</del>         | 1    |            |
|      | 48  |                             |  |      |            |

## Section 11 PRINTER BASE FRAME UNIT 2/2

| Rev. | No. | Oki parts Number            | Description                   | Q ty | Remarks           |
|------|-----|-----------------------------|-------------------------------|------|-------------------|
|      | 49  | 40562401                    | Sheet Guide                   | 1    |                   |
|      | 50  |                             |                               |      |                   |
|      | 51a | 41982501                    | Heat Assy.                    | 1    | 120V DCO-SQ1-1709 |
|      | 51b | 41982502                    | Heat Assy.                    | 1    | 230V DCO-SQ1-1709 |
|      | 52  | 40034001                    | Stopper Spring                | 1    |                   |
|      | 53  | <del>4PB4091 6047P001</del> | <del>Caution Label (TR)</del> | 1    | 230V              |
|      | 54  | 40688601                    | Washer-TR                     | 1    |                   |
|      | 55  | 40710301                    | Guide-Gear T                  | 1    |                   |
|      | 56  | 40634701                    | Bearing-Gear                  | 1    |                   |
|      | 57  | <del>LP6401-B1</del>        | <del>TYING CORD</del>         | 1    |                   |

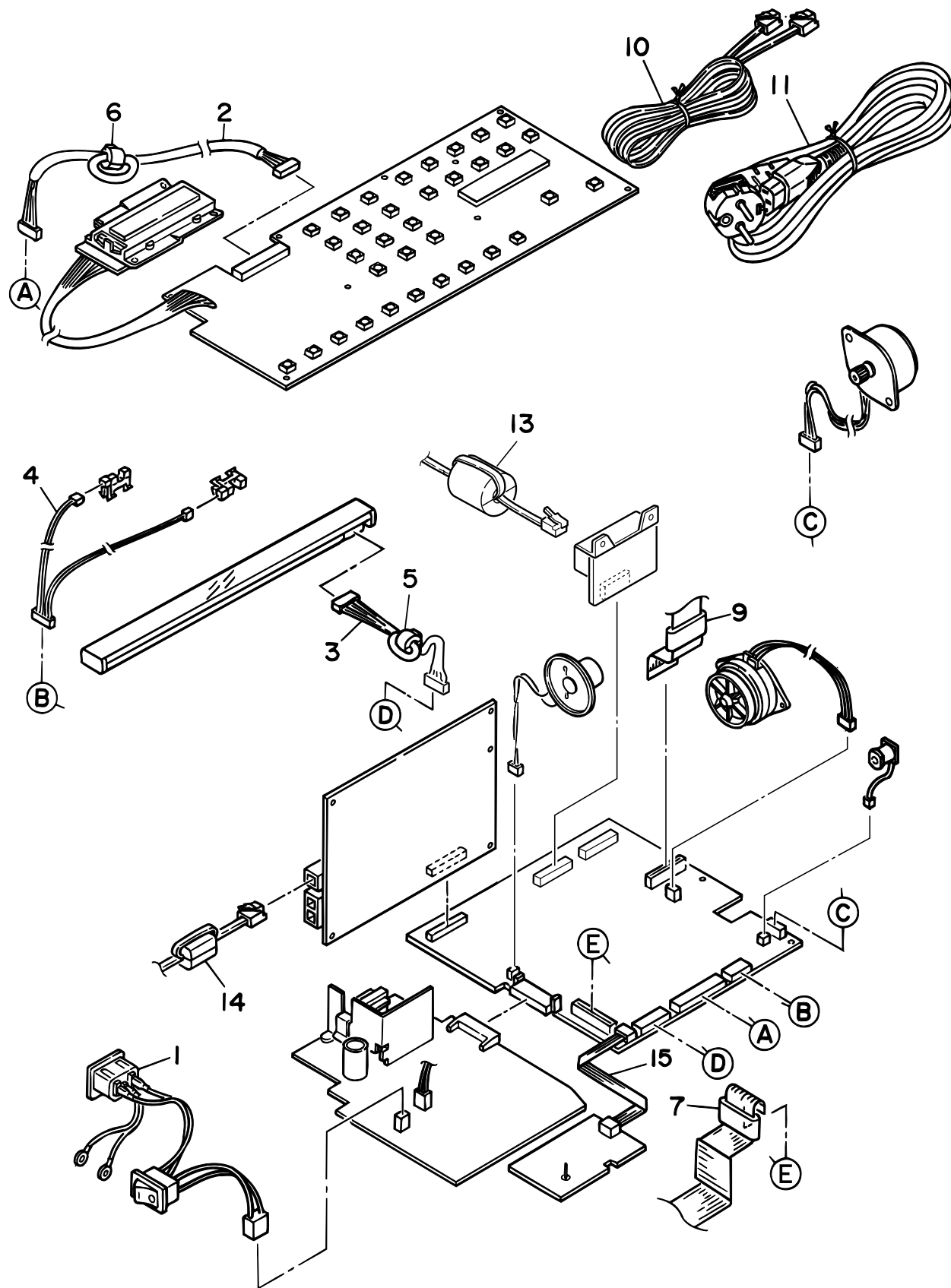
### SECTION 12 PRINTER HEAT ASSY



**Section 12 PRINTER HEAT ASSY.**

| Rev. | No.           | Oki parts Number            | Description             | Q'ty | Remarks |
|------|---------------|-----------------------------|-------------------------|------|---------|
|      | 1             | 40592801                    | Heat Assy.              | 1    |         |
|      | <del>2a</del> | <del>41524001</del>         | <del>Halogen Lamp</del> | 1    | 120V    |
|      | <del>2b</del> | <del>41524002</del>         | <del>Halogen Lamp</del> | 1    | 230V    |
|      | 3             | <del>4PB4083-1204P001</del> | <del>Thermostat</del>   | 1    |         |
|      | <del>4</del>  | <del>42106801</del>         | <del>Thermistor</del>   | 1    |         |
|      | <del>5</del>  | <del>4PB4083-1213P001</del> | <del>Heat Cord</del>    | 1    |         |

### SECTION 13 CABLES



## Section 13 CABLES

| Rev. | No. | Oki parts Number         | Description                  | Q ty  | Remarks             |
|------|-----|--------------------------|------------------------------|-------|---------------------|
|      | 1   | 40635401                 | Connection Cord-Wire (AC)    | 1     |                     |
|      | 2   | 40040001                 | Connection Cord-Wire (OPE)   | 1     |                     |
|      | 3   | 40040201                 | Connection Cord-Wire (CIS)   | 1     |                     |
|      | 4   | 40040301                 | Connection Cord-Wire (PC1/2) | 1     |                     |
|      | 5   | <del>105A1070C0003</del> | <del>TFC-20-10-10 Core</del> | 1     | CIS-V46             |
|      | 6   | <del>105A1070C0004</del> | <del>TFC-23-11-14 Core</del> | 1     | CPE-V46             |
|      | 7   | <del>105A1073C4002</del> | <del>SSC-40-12-M Core</del>  | 1     | HV-V46              |
|      | 8   |                          |                              |       |                     |
|      | 9   | <del>1051003C0001</del>  | <del>FPC-25-20 Core</del>    | 1 (2) | LED-V46             |
|      | 10  |                          | <del>TEL/LINE Cable</del>    | 1     | Note-1              |
|      | 11  |                          | <del>AC CORD</del>           | 1     | Note-2              |
|      | 12  |                          |                              |       |                     |
|      | 13  | <del>1051009C0002</del>  | <del>TFT-152613N Core</del>  | 1     | Option (i chip NIC) |
|      | 14a | <del>1051007C0001</del>  | <del>SFT-59SN Core</del>     | 1     | For LINE Cord use   |
|      | 14b | <del>105A1062C0002</del> | <del>0043-167251 Core</del>  | 1     | For G4 Cord use     |
|      | 15  | 40687701                 | Cord-Flat (SUMI CARD)        | 1     | P6L-V46             |

**Note 1:** Parts will be supplied by OUK per country.

**Note 2:** Parts will be supplied by OUK per country.

## APPENDIX D      PC-LOADING

### 1.      General

#### 1.1      Application

This specification applies to the OKIFAX 4580, an MFP unit capable of two-way communication using the parallel port as its standard feature.

#### 1.2      General

This specification describes the details of PC loading through the Centro connector provided in the OKIFAX 4580

The functions covered are for loading by each of default data, \*flash memory program and language areas, which are equivalent to those of the existing HSLS.

You should download the fill from DOS prompt ; not DOS-window.

\* I-FAX NIC F/W cannot be loaded by PC-LOADING.

#### 1.3      Note on Explanation

The terms used herein shall be interpreted as follows unless specified otherwise.

| Term            | Explanation  |
|-----------------|--|
| Transfer        | Transmission from the PC to OKIFAX 4580                        |
| Receiving       | Receiving from the PC to OKIFAX 4580                           |
| Loading data    | Data in general that is transferred from the PC to OKIFAX 4580 |
| Loading program | Program for receiving the data actually loaded to OKIFAX 4580  |

#### 1.4      Related Document OKIFAX 4580

FACSIMILE TRANSCIVER PRODUCT SPECIFICATION

## 2. Basic Operation

### 2.1 Supported Functions

The PC loading functions described herein are as follows. Functions equivalent to those used in the existing HSLs (High Speed Loading System) are supported.

1. Default data area loading function
  2. Language area loading function
  3. \*Flash memory area program loading function
- \* I-FAX NIC F/W cannot be loaded by PC-LOADING.

These PC loading functions are supported only when the OS used on the PC side is either MS-DOS Ver. 6.0 or above or PC-DOS Ver. 6.0 or above.

### 2.2 Differences from HSLs

It must be noted that PC loading through the Centro cable is different in the following points as compared with loading in the HSLs:

- (1) While transition to the PC loading process is judged according to the presence/absence of the HSLs board, transition to PC loading is possible by detection of memory error occurrence and manual key operation this time.
- (2) The header information is added anew to cope with the addition of the loading program as one of the loading data.
- (3) There is no special application in this PC loading unlike the HSLs. Loading is performed by loading data output to the parallel port by means of a binary specification (copy/b).
- (4) In the case of the HSLs, returning to normal standby state will not occur so long as the HSLs board is installed. In this system, on the other hand, the normal standby state is set automatically upon detection of the end of loading data by means of the header data.
- (5) The cause of the error is displayed by the corresponding code upon occurrence of a hash NG or other error. For the code, see "6. List of Error Causes and Corresponding Codes."



### 3. PC Loading Procedure

#### 3.1 PC Loading upon Memory Error Occurrence

##### 3.1.1 Explanation on Procedure

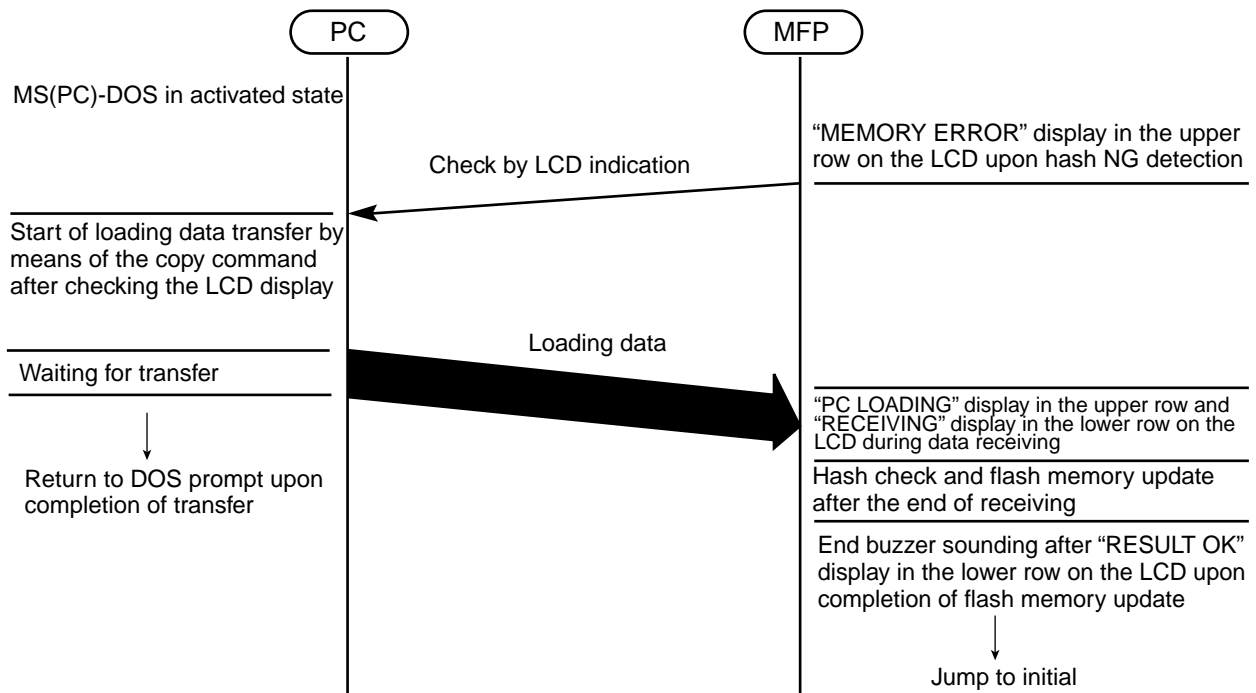
The PC loading procedure when the LCD on OKIFAX 4580 displays “MEMORY ERROR” for a hash NG state due to one reason or another is explained below.

- (1) Activate the MS(PC)-DOS with the host PC and OKIFAX 4580 connected via the Centro cable.
- (2) Input the copy command from the MS(PC)-DOS on the PC to output the loading data file in binary specification to the LPT1 in order to transfer the loading data to OKIFAX 4580.

Example:

```
>copy/b xxx.x LPT1 (xxx.x is the loading data file name.)
```

- (3) The user shall judge the normal end of data loading by checking the normal end of file output on the PC and sounding of the buzzer indicating the normal end on OKIFAX 4580. If OKIFAX 4580 displays an error on the LCD, sounds the buzzer for an error or lights up the alarm LED, the user shall judge abnormal end of data loading from the PC and repeat the procedure from step 2 after turning OKIFAX 4580 power off once and to on again.



### 3.1.2 Procedural Sequence Diagram

## 3.2 PC Loading by Manual Operation

### 3.2.1 Explanation on Procedure

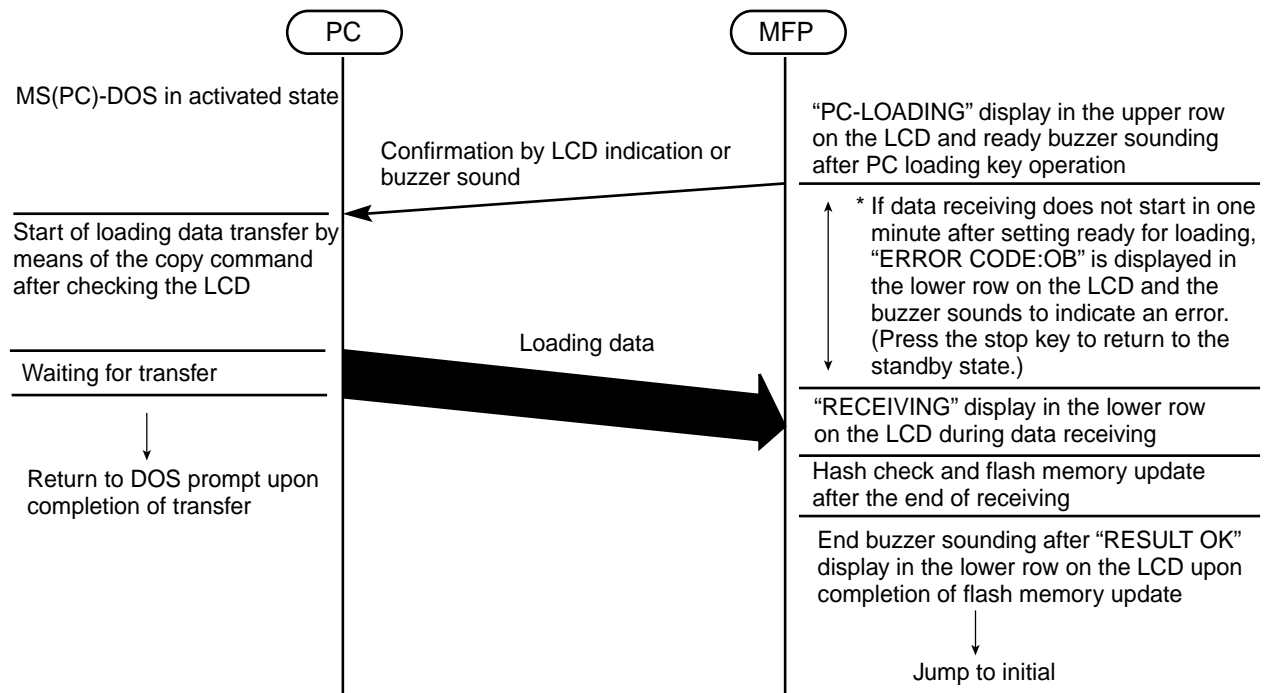
Loading shall be performed as shown below when the PC loading function is selected by key operation by a service man.

- (1) Activate the MS(PC)-DOS with the host PC and OKIFAX 4580 connected via the Centro cable.
- (2) Input the copy command from the MS(PC)-DOS on the PC to output the loading data file in binary specification to the LPT1 in order to transfer the loading data to OKIFAX 4580.

Example:

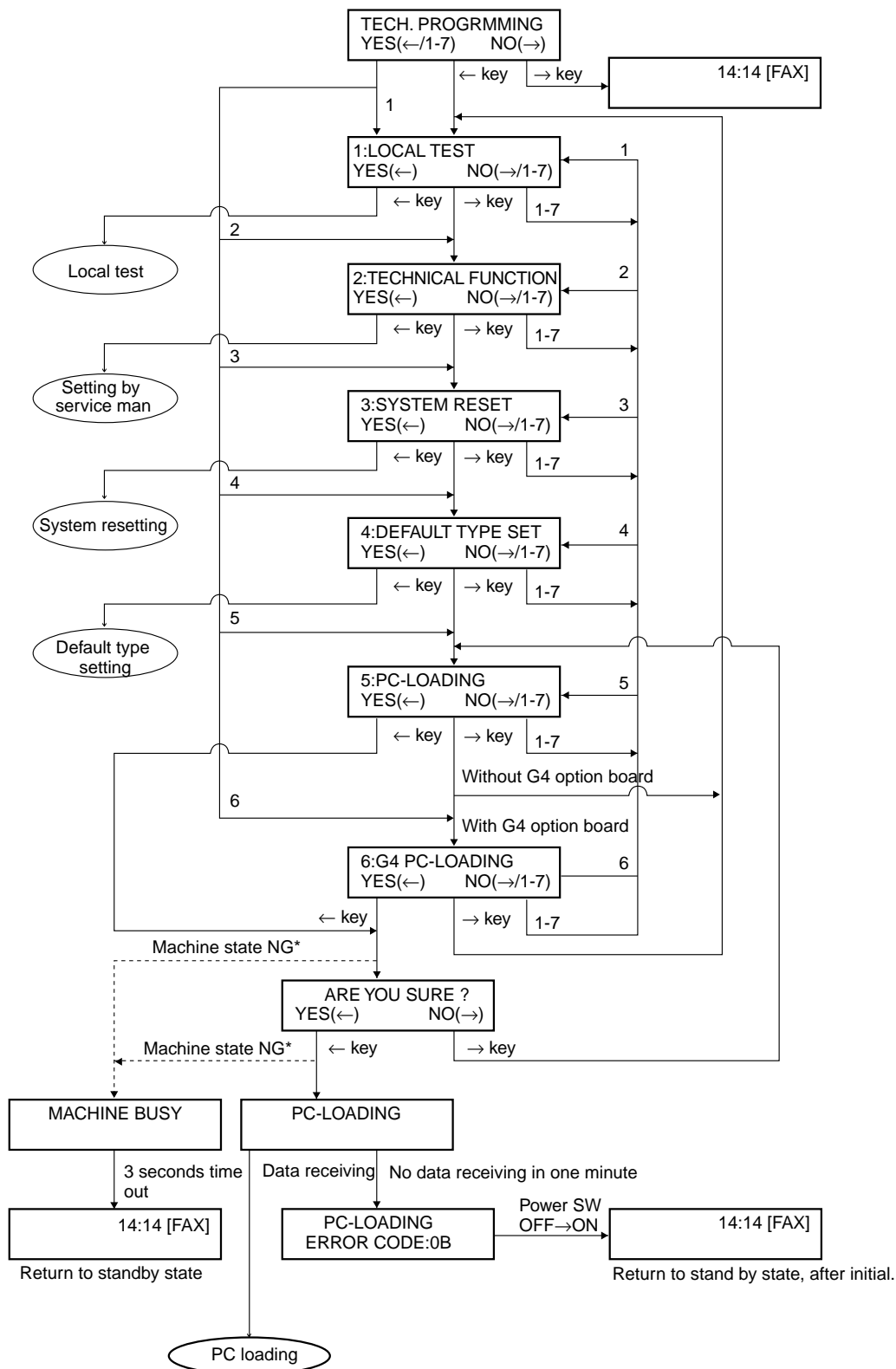
```
>copy/b xxx.x LPT1 (xxx.x is the loading data file name.)
```

- (3) The user shall judge the normal end of data loading by checking the normal end of file output on the PC and sounding of the buzzer indicating the normal end on OKIFAX 4580. If OKIFAX 4580 displays an error on the LCD, sounds the buzzer for an error or lights up the alarm LED, the user shall judge abnormal end of data loading from the PC and repeat the procedure from step 2 after turning OKIFAX 4580 power off once and to on again. (See "6. List of Error Causes and Corresponding Codes" for the error cause.)



### 3.2.2 Procedural Sequence Diagram

### 3.2.3 Operation Flow



\* image in memory, redial, delayed fax, alarm (except NO PAPER, TONER LOW/NO IDunit), and OFF HOOK, operate different way, dotted lines.

Note: When G4 option board is not installed, the lowest display of LCD is shifted from "No (→/1-6)" to "No (→/1-5)" and "6" selection from each screen cannot be set.  
 "No(→/1-7)" is displayed when installed with an I-FAX NIC option.

#### 4. LCD Messages

The LCD message in each operation state is shown below. Note that each message does not vary with the default type or language type.

- (1) Upon transition to PC loading function

Transition by manual operation

PC-LOADING

Transition by a memory error

MEMORY ERROR

- (2) During data receiving before loading end buzzer sounding

PC-LOADING  
RECEIVING

- (3) During loading end buzzer sounding

PC-LOADING  
RESULT OK

- (4) Upon error occurrence during loading

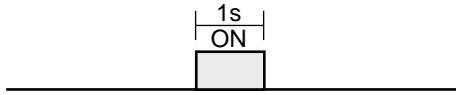
PC-LOADING  
ERROR CODE: \*\*

“\*\*”: Error code (See “6. List of Error causes and Corresponding Codes.”)

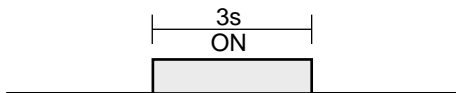
## 5. Buzzer Sounding Patterns

The buzzer sounding patterns for various cases are shown below. In each case, the buzzer frequency is 2,400 Hz and the sound volume is maximum.

### 5.1 Upon Start of PC Loading



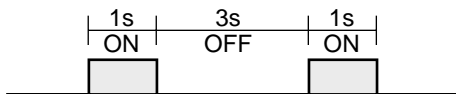
### 5.2 Upon Normal End



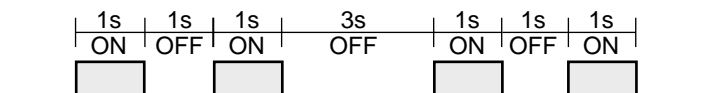
### 5.3 Upon Error Occurrence

The following sounding patterns are provided for indicating various error causes. Intermittent sounding is repeated until OKIFAX 4580 power is turned off. See "6. List of Error Causes and Corresponding Codes" for details of the error causes and codes.

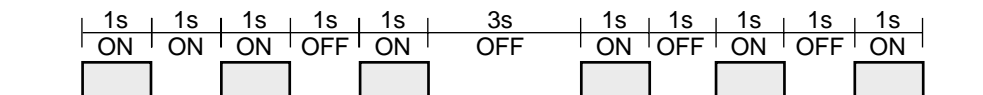
(1) Receive data hash check NG (error code: "01")



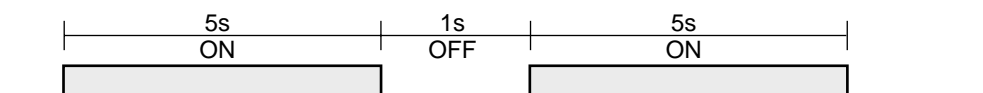
(2) Flash memory erase/write NG (error code: "02")



(3) Disagreement between contents of flash memory and external RAM (error code: "03")



(4) Other error (error code: other than above)



## 6. List of Error Causes and Corresponding Codes

The table below lists the error causes likely to occur during PC loading and the corresponding codes. When an error occurs, the corresponding error code is displayed, the buzzer sounds in the corresponding pattern and transition to the permanent loop state occurs. (See Note 1.)

See “4. LCD Messages” and “5. Buzzer Sounding Patterns” for the LCD display and buzzer sound upon occurrence of each error.

| No. | Error cause   | CODE |
|-----|---|------|
| 1   | Timeout of data receiving waiting timer (14 seconds)  | 00   |
| 2   | Loading data hash check error   | 01   |
| 3   | Flash memory erase/write error  | 02   |
| 4   | Disagreement between flash memory and external RAM contents (verify error)                        | 03   |
| 5   | Header sum check NG *1  | 04   |
| 6   | Disagreement between loading machine type and machine identifier in header *1                     | 05   |
| 7   | Designation of unspecified parameter in header *1   | 06   |
| 8   | Extended address record sum check NG *2   | 07   |
| 9   | Data record sum check NG *2   | 08   |
| 10  | Start address record sum check NG *2  | 09   |
| 11  | File end record sum check NG *2   | 0A   |
| 12  | Timeout by failure in normal data receiving for 1 minute in loading waiting state after operation | 0B   |
| 13  | RAM check result NG upon starting loading program processing                                      | 0C   |

\*1. Occurs only in binary format specification.

\*2. Occurs only in Intel HEX code specification (reservation code not actually used).

**Note:** No error processing (transition to permanent loop state after error code display and buzzer sounding in corresponding pattern) occurs when any of the following errors occurs in receiving the loading program header. The receive data until error occurrence is discarded and the program header receiving starts from the beginning again.

- (1) Header sum check NG
- (2) Disagreement between loading machine type and machine identifier in header
- (3) Designation of unspecified parameter in header
- (4) Designation of other than loading program as data type identifier in header
- (5) Designation of no succeeding data in descriptor
- (6) Designation of Intel HEX format as data type
- (7) 14 seconds timeout in header receiving end waiting state

## 7. Cautions

- (1) Execute the copy command for PC loading after sounding of the buzzer indicating the ready state for loading (for about 1 second). Since the buzzer does not sound for PC loading upon memory error detection, however, execute the copy command after checking "MEMRY ERROR" indication on the LCD after power on.
- (2) Even after returning to the DOS prompt state after the end of the copy command on the PC, do not turn OKIFAX 4580 power off until the buzzer indicating the end of MFP loading sounds.

## 8. Loading Processing Time

The processing time for reloading in the whole OKIFAX 4580 area (program 1, language and default) is shown below.

### Sample data

- Measuring conditions
  - Host PC 800MHz-PentiumIII Windows Me
  - Device OKIFAX 4580 (Flash memory all-cleared)
  - File A FILE
- Result
  - Approx. 85 sec.

## APPENDIX E RMCS SYSTEM MANUAL (For Model 40)

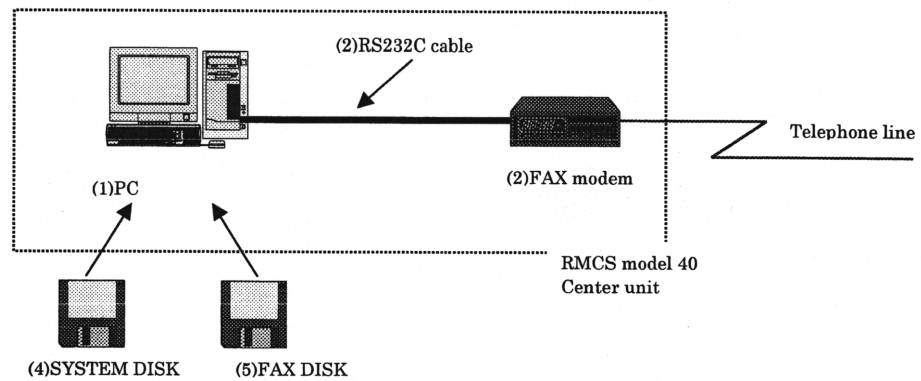
### 1. Notes to RMCS user

#### 1.1 Introduction

RMCS stands for the Remote Management Center System. The purpose of this system is to speed up customer service and reduce maintenance costs.

#### 1.2. System Configuration of RMCS MODEL40

System configuration of RMCS Model 40 is shown below. PC, FAX Modem are needed for the system.



- (1) PC : IBM PC or compatible PC with Windows95/98/Me, WindowsNT4.0, Windows2000, WindowsXP Pro, WindowsXP home.
- (2) FAX modem : Any FAX modem be accessed by a serial port of Windows system. To achieve the good stability and performance, the FAX modem shown in Table G.1 are recommended, which has been tested during development.
- (3) RS232C cable : In case the FAX modem needs the cable to attach to the PC
- (4) SYSTEM DISK : To install this system and FAX DISKs.
- (5) FAX DISK : FAX DISK corresponds to each FAX model. This software includes default data and communication control program for the target model of FAX machine.

#### 1.3 Required System

The RMCS (Remote Management Center System) for Win must be installed in the PC that has Windows-OS installed in order to run maintenance works from a remote location by using the RMCS for Win.

The PC system, in which the RMCS for Win is installed and executed for maintenance works, differs depending on the operation system.

The following system configuration is required to use the RMCS for Win.

**Table G.1 The PC system configuration required to use the RMCS for Win**

|                       |  |
|-----------------------|--|
| OS                    | Windows 95 OSR2 or later + IE4.0(*1) or later<br>Windows 98<br>Windows NT4.0 Service Pack 4 ~ + IE4.0(*1) or later<br>Windows 2000<br>Windows Me<br>Windows XP Professional/Home Edition   |
| CPU                   | Windows XP Professional/Home Edition : 300 MHz or higher Pentium-compatible CPU<br>Windows 2000 : 133 MHz or higher Pentium-compatible CPU<br>Windows Me : 150 MHz or higher Pentium-compatible CPU<br>Windows NT4.0 : i486TM/25 MHz or higher<br>Windows 95/98/NT4.0 : 486DX/66 MHz or higher |
| Memory                | Windows XP Professional/Home Edition : 128MB or higher<br>Windows 2000 : 64MB or higher<br>Windows 95/98/NT4.0/Me : 32MB or higher   |
| Hard Disk             | 20MB or higher of free space   |
| Monitor Resolution    | 640 dots x 480 dots or higher  |
| Recommended Fax Modem | U.S. Robotics 56K faxmodem - External Model #5686  |

\*1) IE : Microsoft®Internet Explorer®



## 2. Quick Set-up manual for RMCS Model 40

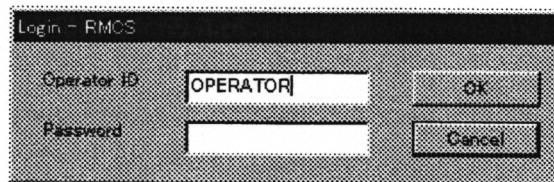
### 2.1 RMCS Installation

- 1) Insert the disk to set up the RMCS in the drive.
- 2) Start up Installer.
- 3) Execute installation by following the SETUP screen.
  - \* You can set an operator password during Install.
  - \* You can skip password registration.
  - \* You can use up to 15 alphanumeric characters to set up a password.
  - \* You can change the registered password after installation.
  - \* You can enter up to 15 alphanumeric characters for a password.

## 3. Startup

### 3.1 Entering Operator ID

As the RMCS MODEL 40 starts up, you are queried for entering an operator ID. You can confirm the operator ID you entered on the System Main screen or the Model Main screen after the RMCS started up.

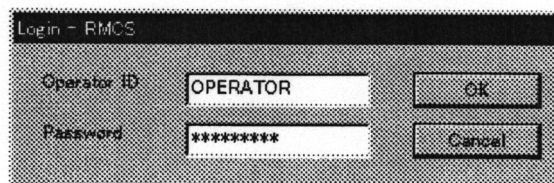


- \* You can enter up to 50 alphanumeric characters for operator IDs.
- \* If you want to change the operator ID, you must exit RMCS first, then re-boot it.

### 3.2 Entering Password

You are queried for entering a password at the same time as entering an operator ID.

- 1) Enter an operator password.
  - \* Enter the password that was registered during installation of the RMCS for Win or the password modified later.
  - \* If no password has been registered, you need not input any herein.

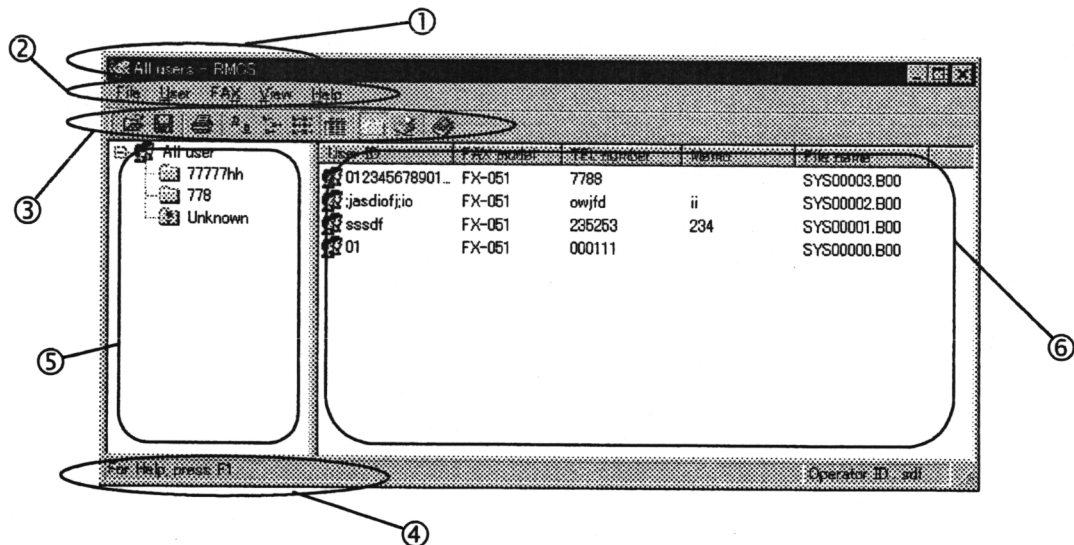


- 2) Press the OK button.
  - \* If you enter the password incorrectly three times, the RMCS closes and it does not boot up.

## 4. SYSTEM Main Screen

### 4.1 Screen Titles

Once the RMCS for Win is booted, the System Main screen appears. The titles used in the System Main screen are explained next.



- ① **Title Bar:**  
Displays the folder names that are displayed on the User Display window.
- ② **Menu Bar:**  
Displays the menu that executes the various functions.
- ③ **Toolbar:**  
Displays by the icons the functions that you can execute by clicking.  
You can switch Toolbar display/not display on the View Menu.
- ④ **Status Bar:**  
Displays the status of RMCS, Menu descriptions, and also operator ID.  
You can switch Status bar display/not display on the View menu.
- ⑤ **Users (RMCS users) Category Window:**  
Displays the facsimile models that are currently registered, or the folders that the operator has customized.  
You can switch the display by the facsimile models or by the folders, on the View menu or by the icons on the Toolbar.
- ⑥ **Users (Field users) Display Window**  
Displays all users that are currently registered.  
You can switch Large Icons, Small Icons, List and Details, on the [View] menu or by the icon on the Toolbar.

## 4.2 DISK by Models

### 4.2.1 Adding Models

You must run Install by using the DISK by the models and add models to run maintenance on the facsimile devices. The procedure is explained next.

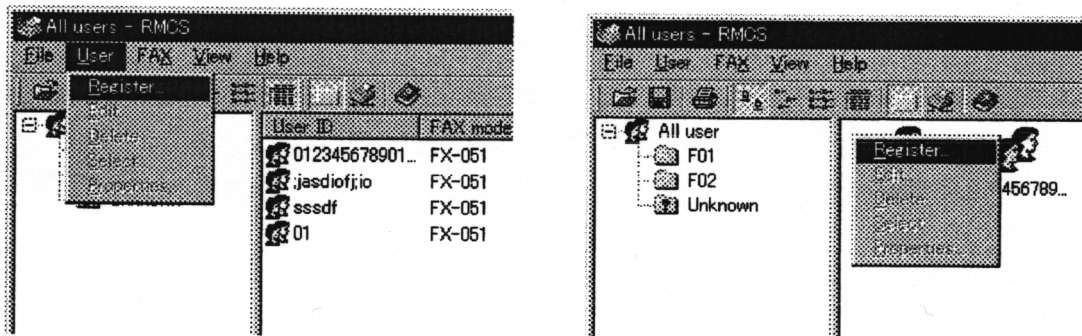
- (1) Insert the DISK by the facsimile models in the drive.
- (2) Select [Install] on the [FAX] menu.
- (3) Select on the Dialog screen the drive where you have inserted the DISK by the facsimile models.
- (4) Press the OK button.
- (5) Confirm the facsimile device you want to add has been added to the User Category window at the System Main screen.

## 4.3 Manipulating User Information

### 4.3.1 Registering User Information

You must register user information to run maintenance works.

- 1) Select a folder you want to register at the User Category window.
  - 2) Select [Register] on the [User] menu.
- \* You can select by right clicking at the User Display window.



- 3) The Register Dialog screen appears.
- 4) Enter each item and press the OK button.

\* The following four items are subject to registration.

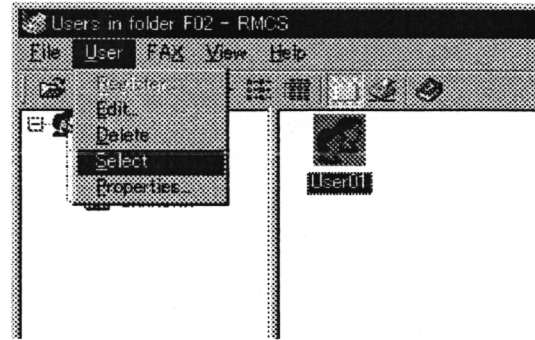
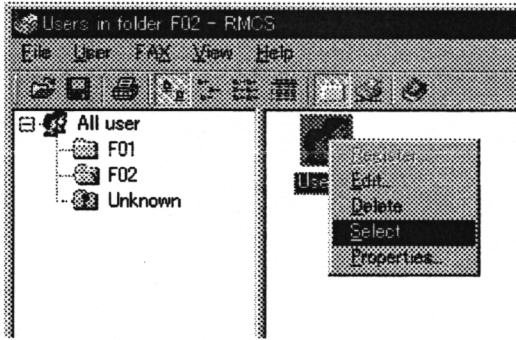
1. User ID: Enter up to 15 alphanumeric characters (must)
2. FAX model: Select on the Pull-down menu. (must)
3. TEL number: Enter a TEL number of up to 48 digits. (must)
4. Folder: Select on the Pull-down menu. (choice)
5. Memo: Enter up to 50 alphanumeric characters (choice)

\* You cannot register by the User ID name that is already registered.

### 4.3.2 Selecting User Information

To select the user information subject to maintenance so as to move to the Model OFFLINE screen.

- 1) Select the user information on which you want to run maintenance at the User Display window.
- 2) Select [Select] on the [User] menu.
  - \* You can select by right clicking at the All Users window.
  - \* You can select by double clicking at the level when user information is selected.



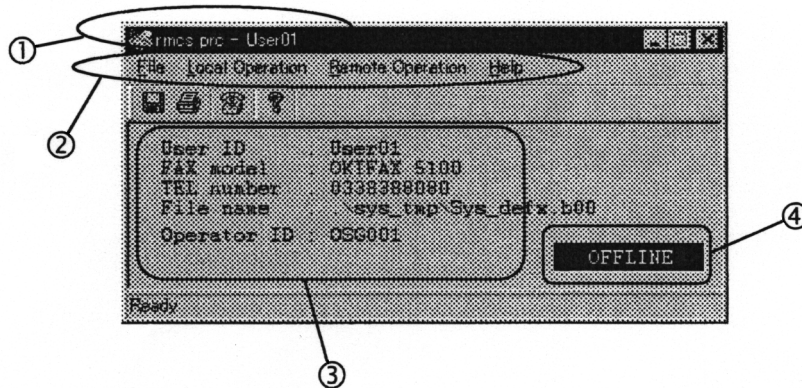
- 3) The Model OFFLINE screen appears.

## 5. Model Main Screen

### 5.1 Screen Title

When User Information is selected at the RMCS for Win SYSTEM Main screen, the Model Main screen appears.

The Model Main screen is explained next.



- ① Title Bar:  
To display the facsimile model name
- ② Menu Bar:  
To display the menu at which each function is executed
- ③ Area to display user information and operator information:  
To display user information and operator IDs to set/display/edit
- ④ ONLINE/OFFLINE display:  
To recognize ONLINE/OFFLINE status of setup information currently displayed

### 5.2 ONLINE Operation

Select items on the [Remote Operation] menu, to run ONLINE operations through the communication circuit.

- 1) Change the telephone number, if necessary, at the [TEL number setting] sub-menu on the [Local Operation] menu.
- 2) Select items on the [Remote Operation] menu.

|                       |
|-----------------------|
| Initialization of FAX |
| File [LOAD (→ FAX)]   |
| File [SAVE (→ HD)]    |
| [EDIT] (ON LINE)      |
| Testing               |
| Disconnect            |

- 3) Confirm that ONLINE is displayed at the Model Main screen.

### 5.2.1 Loading

To load file-format data from the RMCS (maintenance work PC) to the target FAX device. The data in the target FAX device is replaced with the loaded data.

- 1) Select items to load at the [File[LOAD(→FAX)]] sub-menu on the [Remote Operation] menu.

|                                |
|--------------------------------|
| All data                       |
| User data                      |
| Serviceman data                |
| TEL number data                |
| Program/*Language/Default data |

- 2) (File loading.)
- 3) Select the [Disconnect] sub-menu on the [Remote Operation] menu to close the circuit.  
\* You can select a new item on the [Remote Operation] menu without disconnecting the line.
- 4) Confirm that OFFLINE is displayed on the Model Main screen.  
\* I-FAX NIC F/W cannot be loaded from RMCS.

### 5.2.2 Saving

To upload the file-format data from the target FAX device in the RMCS (maintenance work PC) and save.

The data that is saved in the RMCS is replaced by the newly saved data.

- 1) Select the [FILE[SAVE(→HD)]] sub-menu on the [Remote Operation] menu.
- 2) Select a driver and a folder to save at the dialog screen.
- 3) (File saving.)
- 4) Select the [Disconnect] sub-menu on the [Remote Operation] menu to close the circuit.  
\* You can select a new item on the [Remote Operation] menu without closing the circuit.
- 5) Confirm that OFFLINE is displayed on the Model Main screen.

### 5.2.3 Editing

To edit/set contents of data on the target FAX device from the RMCS (maintenance work PC) side. You can also save the data you edited/set in the RMCS. In this case, the data saved in the RMCS is replaced with the data you have just saved.

- 1) Select an item to edit/set at the [EDIT(ONLINE)] Sub-menu on the [Remote Operation] menu.
- 2) The dialog screen for User/Serviceman/Telephone number data appears.
- 3) Edit/set the contents of data.

|                 |
|-----------------|
| User data       |
| Serviceman data |
| TEL number data |

Updating the data on the target FAX device side:

- 4) Press the LOAD button.
- 5) (File loading.)
- 6) Select the [Disconnect] sub-menu on the [Remote Operation] menu to close the circuit.  
\* You can select a new item on the [Remote Operation] menu without closing the circuit.
- 7) Confirm that OFFLINE is displayed on the Model Main screen.

Updating the data on the RMCS (Maintenance work terminal) side:

- 4) Press the SAVE button.
- 5) Select a drive and a folder at the SAVE dialog screen and press the OK button.
- 6) Select the [Disconnect] sub-menu on the [Remote Operation] menu to close the circuit.  
\* You can select a new item on the [Remote Operation] menu, without closing the circuit.
- 7) Confirm that OFFLINE is displayed on the Model Main screen.

## 5.2.4 Initializing

To initialize the contents of registration of the target FAX device by sending the initialization command to the target FAX device from the RMCS (Maintenance work PC).

- (1) Select an item to initialize at the [Initialization of FAX] sub-menu on the [Remote Operation] menu.

|                      |
|----------------------|
| All data             |
| User data            |
| I-FAX NIC data       |
| Serviceman data      |
| TEL number data      |
| Activity report data |
| Drum counter         |
| Toner counter        |
| Drum(T) counter      |
| Print counter        |
| Scan counter         |

## APPENDIX F INTERNET FAX OPTION

This user's guide describes how to install and configure the Internet Fax kit into a fax machine. After installing this kit, the following functions are available for use:

- Send and receive Internet fax messages.
- Network scanner

Supported systems

Supported LAN systems (topologies) are as follows.

- 10base-T Ethernet.

Supported protocols

Supported Internet fax protocols are as follows:

- TCP/IP
- SMTP
- POP3
- DNS

**Note:** TELNET, FTP, SNMP, MIB, HTTP (WEB) are not supported.

### 1. Internet fax settings

#### 1.1 General

Before using Internet Fax, consult with the network administrator about correct network settings. There are two types of setting values for Internet Fax, which are as follows:

- Data stored on the fax machine.
- Data recorded on the network card.

To print out a list of the setting values on the fax machine, using the control panel of the fax machine, select FUNCTION, then select OT6 (REPORT PRINT) and then select 5:CONFIGURATION.

#### 1.2 Settings

Internet Fax can be set with I-FAX NIC OPTIONS of User Programming.

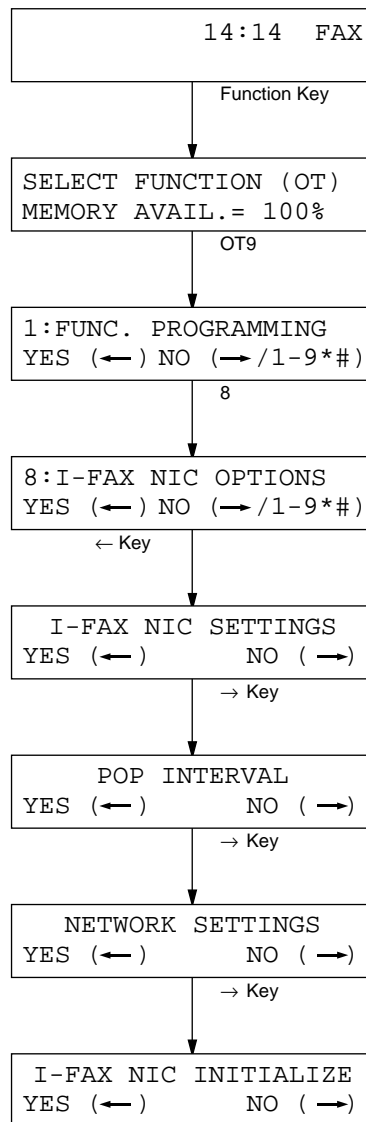
Supported I-FAX NIC OPTIONS are as follows:

- I-FAX NIC SETTING
- POP INTERVAL
- NETWORK SETTINGS
- I-FAX NIC INITIALIZE

However, these operations are possible when an I-FAX NIC board is installed.



### 1.3 Operation overview



## 1.4 User/Technical functions

### A: I-FAX NIC SETTINGS

**1: TEXT PRINT** - Whether or not to print the body text of email. If this setting is ON, the text in an e-mail message is printed out. Please note that only US-ASCII characters in the text can be printed as shown in the following table. Any characters that cannot be printed will be shown as spaces. Depending on the e-mail client used, text may not be printed or come out garbled.

**Note:** - Text is not generally base64 encoded and coded text is not supported (coded text is received, where the text in a coded condition is printed.)

- Two or more pieces of text are all printed.

A line (98 hyphen characters) is added between text files (including body copy) and a linefeed is created before and after the line. Between a header and a text file (including body copy), no line is added and one linefeed is inserted.

- All the MIME header of the attached file is not printed out.

- A blank line in the top of TEXT is eliminated in print, and be printed.

- With Microsoft Outlook, there is a setting to send an Email body by the HTML format. When the setting is the HTML format, then the body will be sent by both TEXT and HTML format. If the one received, Internet Fax will print out only the TEXT portion.

However, if the setting is HTML format and there is an attached file, then the HTML portion will be printed out as it is.

When the Outlook is used, please use the Text as the sending format.

|   | 00 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | A0 | B0 | C0 | D0 | E0 | F0 |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0 |    |    | SP | 0  | @  | P  | '  | p  |    |    |    |    |    |    |    |    |
| 1 |    |    | !  | 1  | A  | Q  | a  | q  |    |    |    |    |    |    |    |    |
| 2 |    |    |    | 2  | B  | R  | b  | r  |    |    |    |    |    |    |    |    |
| 3 |    |    | #  | 3  | C  | S  | c  | s  |    |    |    |    |    |    |    |    |
| 4 |    |    | \$ | 4  | D  | T  | d  | t  |    |    |    |    | Ä  |    | ä  |    |
| 5 |    |    | %  | 5  | E  | U  | e  | u  |    |    |    |    |    |    |    |    |
| 6 |    |    | &  | 6  | F  | V  | f  | v  |    |    |    |    |    | Ö  |    | ö  |
| 7 |    |    |    | 7  | G  | W  | g  | w  |    |    |    |    |    |    |    |    |
| 8 |    |    | (  | 8  | H  | X  | h  | x  |    |    |    |    |    |    |    |    |
| 9 |    |    | )  | 9  | I  | Y  | i  | y  |    |    |    |    |    |    |    |    |
| A |    |    | *  | :  | J  | Z  | j  | z  |    |    |    |    |    |    |    |    |
| B |    |    | +  | ;  | K  | [  | k  | {  |    |    |    |    |    |    |    |    |
| C |    |    | ,  | <  | L  | \  | l  |    |    |    |    |    |    | Ü  |    | ü  |
| D |    |    | -  | =  | M  | ]  | m  | }  |    |    |    |    |    |    |    |    |
| E |    |    | .  | >  | N  | ^  | n  | ~  |    |    |    |    |    |    |    |    |
| F |    |    | /  | ?  | O  | _  | o  |    |    |    |    |    |    | ß  |    |    |

**2: HEADER PRINT** - E-mail header print setting.

OFF: Do not print header

TYPE1: Print SUBJECT/FROM/TO

TYPE2: Print all header information

This setting is only valid when the TEXT Print setting is ON.

**3: CODING MODE** - Coding mode for TIFF file images sent by Internet Fax. Select from MH/MR/MMR. Please note that other manufacturers' Internet Fax products often support only MH. This machine supports MR and MMR modes in addition to MH. The rate of compression is MH (low); MR (medium); MMR (high).

**4: EX.FINE MODE** - Scan resolution of EX.FINE mode for Internet Fax: 300 dpi or 600 dpi.

**5: SENDER ID (EMAIL)** - Whether or not to add the sender ID to images scanned by Internet Fax. This setting will always apply when using Internet Fax, regardless of the setting for 23:SENDER ID ON/OFF. When using Internet Fax as a scanner, turn this setting OFF to prevent the sender ID data from appearing in scanned images.

Also when this setting is On, the sender ID should be added for the main body of the sending Internet FAX.

**6: SEND FILE FORMAT** - When an Email is sent, the setting value to decide if either of TIFF/PDF will be used to send the read manuscript is TIFF / PDF.

**Note:** PDF receiving is not available.

**7: SEND NOTIFICATION** - This is to set if the message (main body) will be attached when an Email is sent.

**8: I-FAX NIC UPDATE** - Firmware of the network card is updated when turns this setting into ON. Use the setting for OFF usually. When update of firmware is necessary, obey instructions of the store which bought FAX. Update of firmware is needless usually.

**B: POP INTERVAL** - OFF/1MIN/5MIN/10MIN/30MIN/60MIN/DAILY

- When the DAILY setting is selected, POP TIME (Receiving Action Time) should be set. (Maximum registered number : 4 kinds)
- When the setting is DAILY but the POP TIME is not registered, then the auto POP receiving action will not done. (The action is the same to the OFF setting.)
- After POP TIME is registered, even if the setting is changed from DAILY to another one, but the POP TIME registered will not be eliminated.

If set at OFF, no automatic receptions will be carried out.

**C: NETWORK SETTINGS** - By selecting this user function, the following network settings can be altered.

**1: IP ADDRESS** - Sets the IP address.

When 0.0.0.0 is set as the IP address and the power is turn OFF and ON, the DHCP function goes ON and if a DHCP server exists, an IP address is obtained from the DHCP server.

From then on, an IP address is obtained from the DHCP server each time the power is turn ON and OFF, therefore, it is not necessary to change the IP address. When an IP address is obtained from the DHCP server, the value of the obtained IP address is displayed and an asterisk (\*) is displayed at the end. If you wish to set a fixed IP address, input the IP address (numbers).

Other than the IP address, a SUBNET MASK, DEFAULT, GATEWAY, DNS Server address, SMTP Server NAME and POP Server NAME are also obtained from the DHCP server automatically. However, the items sometimes cannot be obtained depending on how the DHCP server is set. In such a case, set the address one at a time.

**CAUTION:** If an address cannot be obtained from the DHCP server properly, return the value of the IP address, SUBNET MASK, DEFAULT GATEWAY, POP SERVER, SMTP SERVER, and DNS SERVER address to 0.0.0.0 temporarily and turn the power OFF and ON.

**2: SUBNETMASK** - Sets the subnet mask.

**3: DEFAULT GATEWAY** - Sets the default gateway address.

**4: SMTP SERVER NAME** - Either the IP address or the host name of the SMTP mail server up to 64 characters may be entered here. The host name (e.g. mail.network.com) can be used if DNS has been set; otherwise, enter the IP address of the server. The address must include the "." (period) dividers (e.g. 192.168.004.123).

**Note:** Symbols of " and ' cannot be input.

**5: POP SERVER NAME** - Either the IP address or the host name of the POP mail server up to 64 characters may be entered here. The host name (e.g., mail.network.com) can be used if DNS has been set; otherwise, enter the IP address of the server. The address must include the "." (period) dividers (e.g., 202.250.111.123).

**Note:** Symbols of " and ' cannot be input.

**6: POP USER ID** - Enter the user ID registered on the POP3 server, which must be alphanumerical characters no more than 16 characters long.

**Note:** Symbols of " and ' cannot be input.

**7: POP PASSWORD** - The password registered on the POP3 server may be entered, which must be alphanumerical characters no more than 16 characters long. If a password has already been registered, it will be shown as 16 Xs to ensure that it will remain protected.

**Note:** - Symbols of " and ' cannot be input.

- 6:POP USER ID and 7:POP PASSWORD settings in the fax machine must match the POP3 user name already entered in the server.

**8: DNS P. SRV ADDRESS** (Domain Name Service Primary Server) - Sets the IP address of the DNS primary server. This will not be required if the server is connected directly using its IP address.

**9: DNS S. SRV ADDRESS** (Domain Name Service Secondary Server) - Sets the IP address of the DNS secondary server. Enter this setting only if a secondary server has been set up.

**10:FAX Email Address** - Enter the email address defined on this machine. Maximum length: 64 characters.

**D: NIC INITIALIZE** - Initialises the network card back to its original factory settings.

**Note:** Please check carefully before carrying out this operation.

**E: Technical Function 40 - COMMAND TIME OUT**

Capable of selecting from 30SEC and 5MIN (default: 30SEC).

It is not necessary to change the setting in normal times.

If a time out error frequently arises, change the setting to 5MIN.

## 2. Internet fax transmission

### 2.1 Registering addresses

E-mail addresses up to 64 characters long can be assigned to one-touch keys 01 to 10. It is also possible to make up a group of email addresses and assign to one-touch dial numbers, but one-touch dial numbers for both email addresses and telephone numbers cannot be assigned to a single group.

**Note :** Numbers, small/capital letters, and symbols [ ! # & ( ) \* + , - . / : ; = ? @ \ \_ % ~ ] can be input with the ten-key and one-touch key.  
Symbols are allocated in the "0" of the ten-key.  
Capital and small letters can be selected with 1/CAP of the one-touch key.  
Note that "" is displayed as "-1" in the LCD.

### 2.2 Sending a document

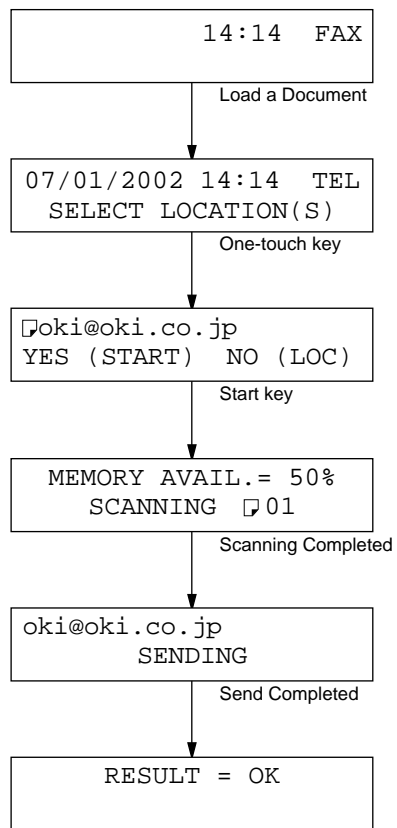
Place a document on the machine, press the one-touch key on which the recipient's email address is assigned and press Start. After storing the document's image data in memory, the machine will establish a server connection. When this is done, the SENDING message will be displayed. At the end of the transmission, the result will be displayed on the LCD and a buzzer will sound. A document can be sent to several e-mail addresses by pressing the one-touch keys on which they are assigned, but cannot send to recipients with telephone numbers registered on one-touch keys. If the same e-mail address is selected twice, the document will be sent only once. To specify the full e-mail addresses, select Email key to enter each e-mail addresses individually.

It is possible to set the Sender ID On/Off, to enter the Subject and to enter the From address. See the operation flow for the details. And also, with the communication parameter of the Speed Dial, it is possible to set the Sender ID On/Off, and to change the File Format between .tif and .pdf.

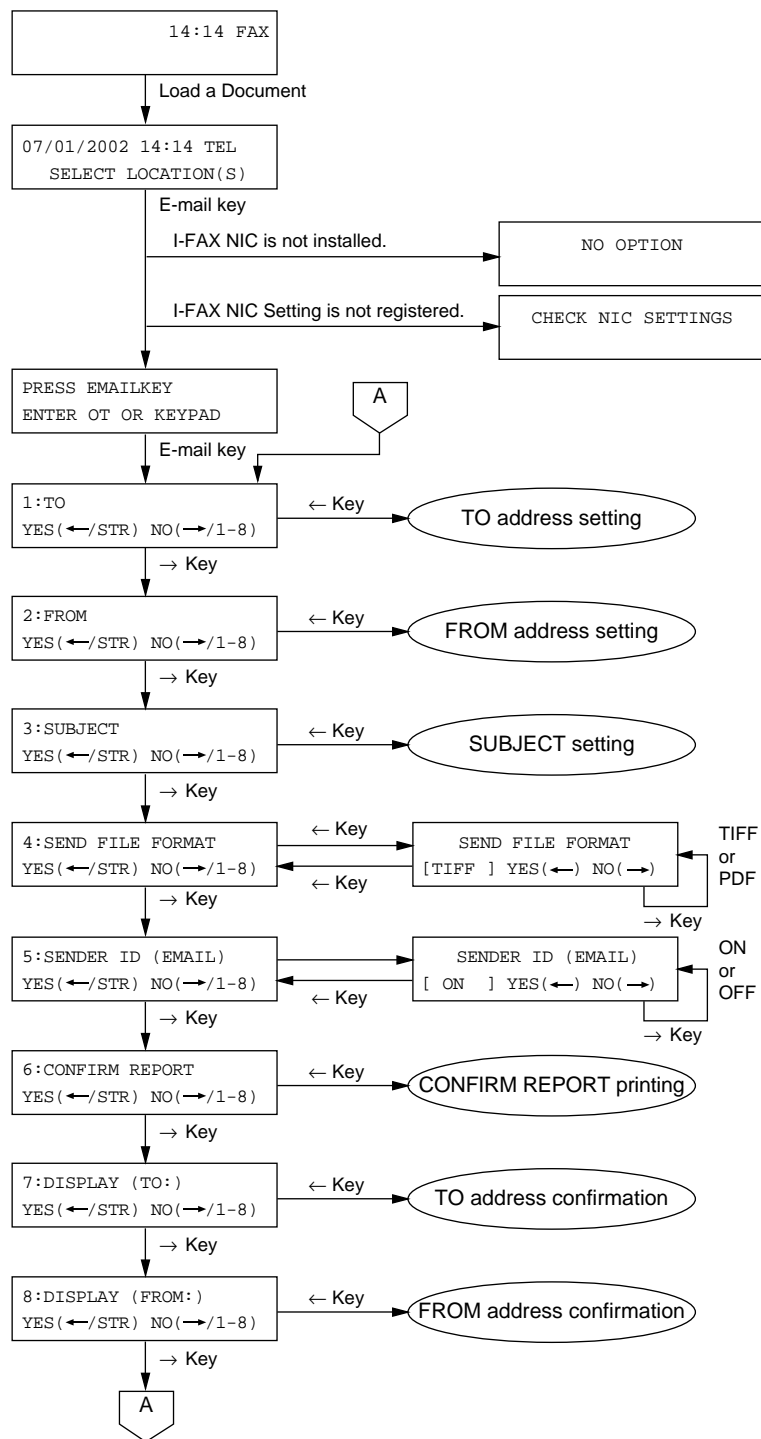
To stop transmission, press the Stop key. Please note that the transmission will be terminated at once without asking for confirmation.

Internet Fax data is scanned into memory before transmission. If the document is too large to fit into memory, divide it up and make two or more transmissions.

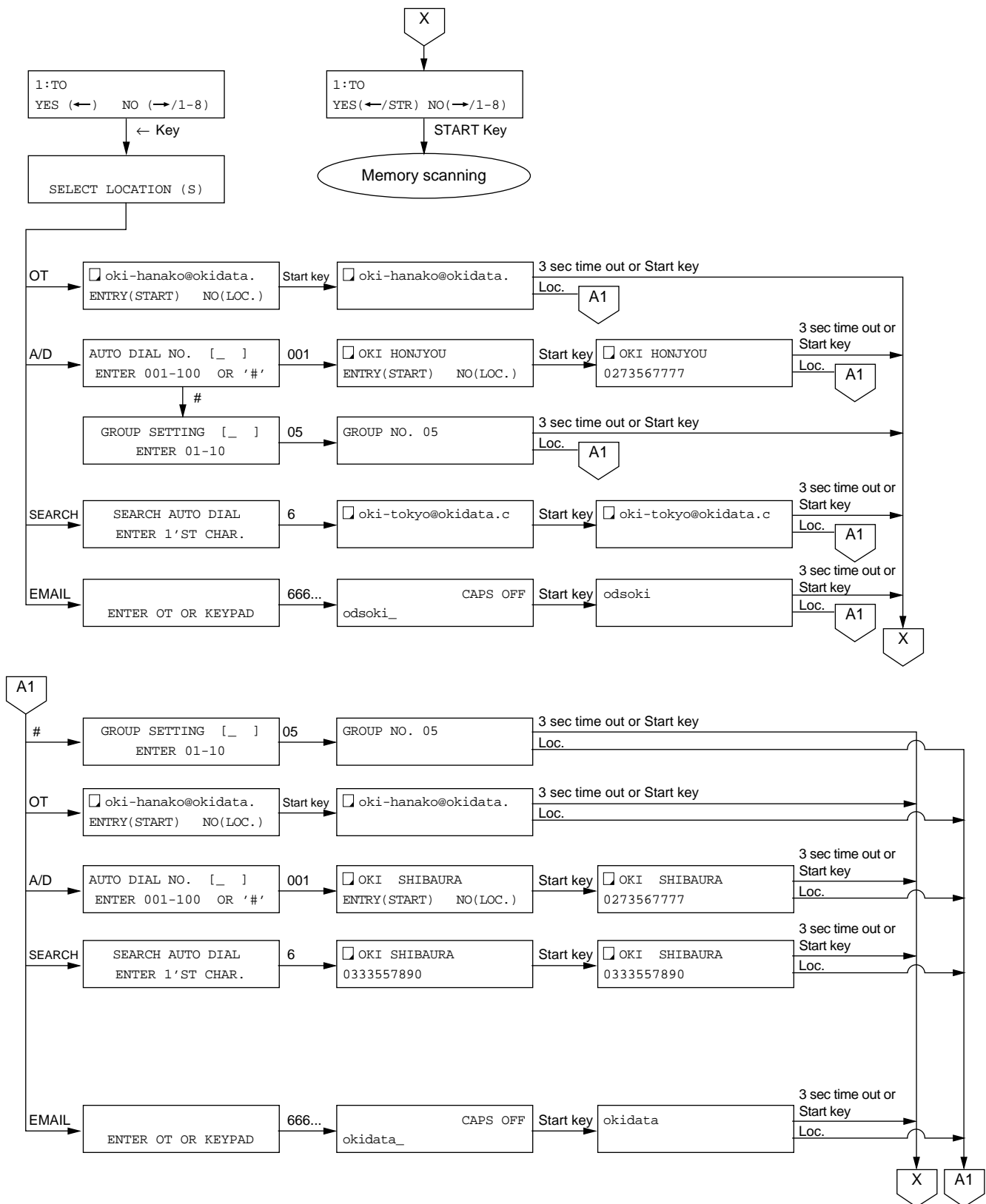
## 2.3 Internet fax transmission flow



## 2.4 Internet fax transmission flow with E-mail key

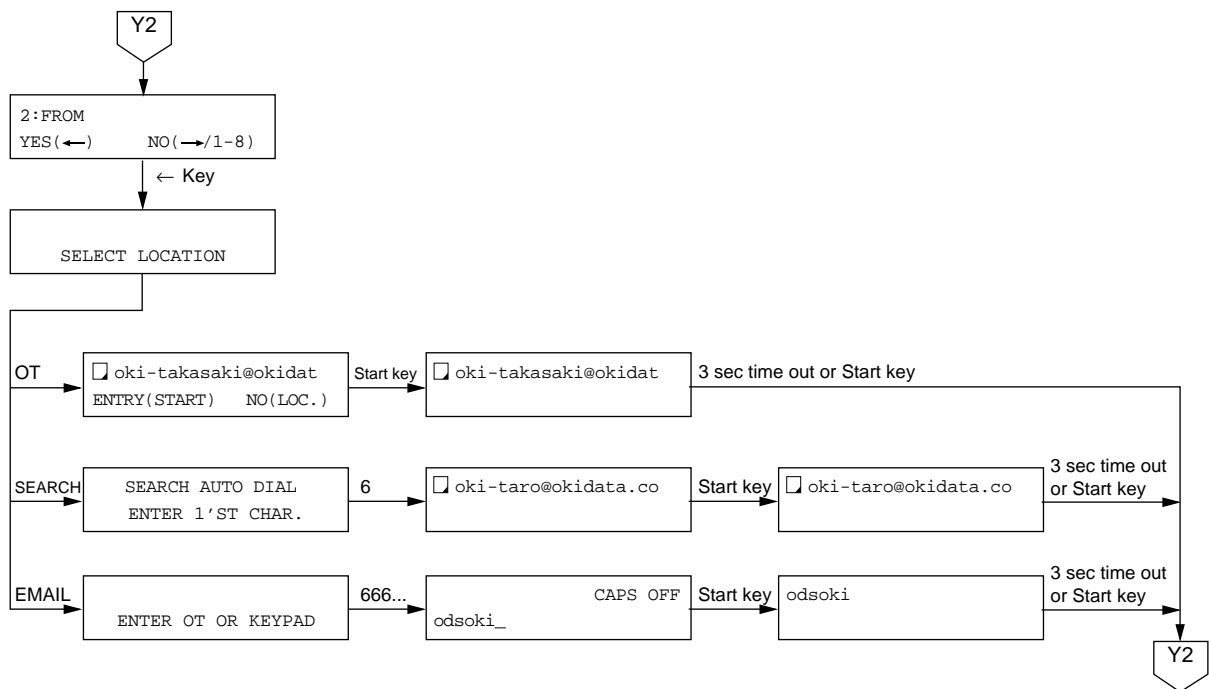


## 2.5 TO address setting

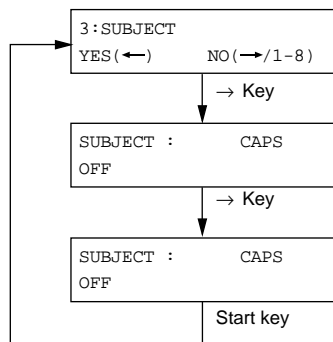




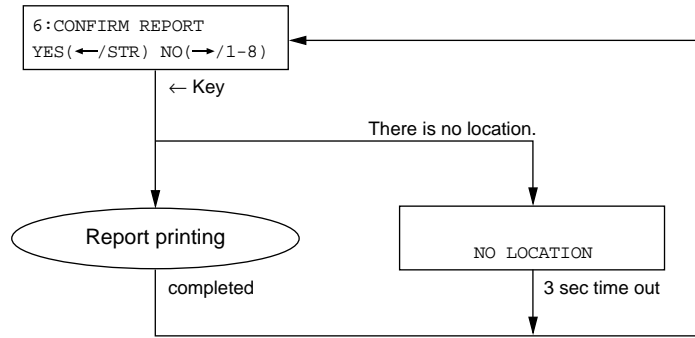
## 2.6 FROM address setting



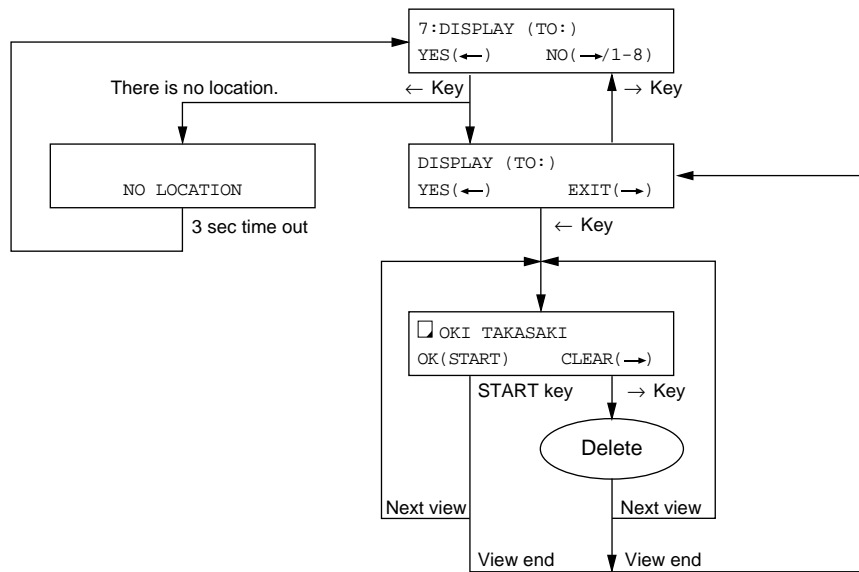
## 2.7 SUBJECT setting



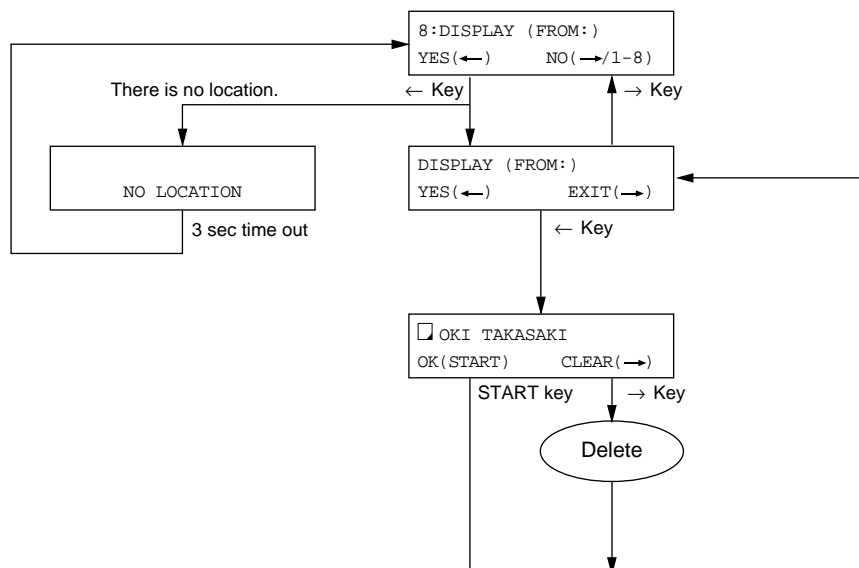
## 2.8 ENTRY REPORT printing



## 2.9 TO address confirmation



## 2.10 FROM address confirmation



**Tiff/PDF images**

Internet FAX converts scanned documents into a single TIFF or PDF format file and sends it by e-mail. This machine can transmit at a resolution of 200 × 100 dpi in STD mode, 200 × 200 dpi in FINE mode, 300 × 300 dpi or 600 × 600 dpi in EX-FINE and 200 × 200 dpi in PHOTO mode. The images are compressed using one of the standard formats used on faxes: MH, MR or MMR.

**Note:** 600 × 600 dpi in EX-FINE and MMR settings can be changed.

Many Internet Fax products offered by other manufacturers can receive only in the STD and FINE resolutions and in MH compression mode. Please note this point if sending a document to an Internet Fax of a different make, but is not be a problem if sending to the same type of Internet Fax or to a PC. This Internet Fax attaches the fixed mail text (see the next section) as it sends a fax document.

**Fixed TEXT message attached to the Sending Internet FAX**

When the Internet FAX is sent, the fixed message shown below is sent. The contents differ between the case when Tiff is sent and when PDF is sent. And also, when the setting of the Sender ID (email) is On and the Sender ID is already registered, then 'from The Internet Facsimile' becomes 'from [Sender ID]'.

With the SEND NOTIFICATION of the user settings, it is possible to set so that not sending this fixed message.

<When TIFF is sent>

The scanned pages attached to this e-mail have been sent from an Internet Facsimile. " ([sender ID] or an Internet Facsimile.)

To view or print these pages please use the software program "Imaging" (provided with Win NT4.0/ME/00/98/95 OSR 2) or "Windows Pictures and Fax Viewer" (provided with Windows XP).

-----

Imaging, Windows NT4.0, Windows 95, Windows 98, Windows Me, Windows 2000, Windows Pictures and Fax Viewer, and Windows XP are registered trademarks of US Microsoft Corporation.

<When PDF is sent>

There are scanned pages attached to this e-mail which have been sent from ([Sender ID] or an Internet Facsimile.)

**Subject**

With using the Email key, it becomes available to enter the Subject individually. And also, when the setting of the Sender ID (email) is On and a Sender ID is registered and the Subject is not entered at the drive operation, then:

the Subject of the sending mail of the Internet FAX is sent as 'Internet FAX Message from [Sender ID] style.

**From:**

With using the Email key, it is available to specify address individually into the Email Header From: address. The default is the Email address of its own machine.

**Tiff viewer**

In order to view Tiff files sent by this fax machine, it is necessary to have a Tiff Viewer installed on the PC. Microsoft Windows 95, 98, Me, NT4.0 and 2000 have a viewer called Imaging, through which Tiff files can be viewed.

Tiff files can be displayed with "Windows Pictures and Fax Viewer" in WindowsXP.

**Note:** Before printing a Tiff file from Imaging, go to OPTIONS in either the Print screen or in Properties and set the Print format to "Fit to Page". If it is set at "Actual size", part of the fax image may be cut off from the print out.

**PDF**

It is available to see the PDF being sent by the Internet FAX with Acrobat Reader 3, 4 or 5.

**Note:** PDF can not be received by the Internet Fax.

## 2.11 Internet fax reception

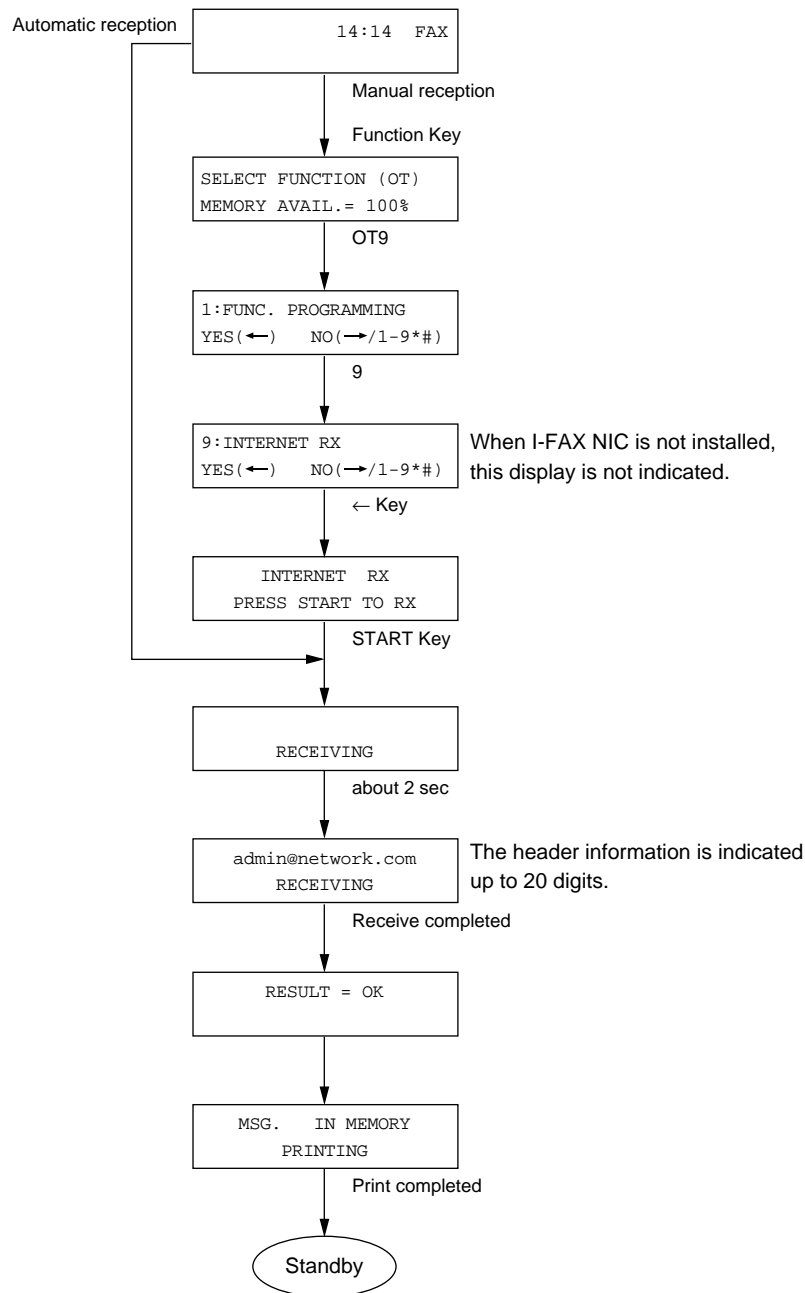
This fax machine automatically connects to the server to receive mail according to the POP INTERVAL TIME setting. If there is mail on the server, reception will start automatically. If there is more than one mail message, it will receive all the messages and print them out.

Manual reception of mail is done by selecting FUNCTION.

If automatic reception takes place and there is no mail, no record of the transaction will be made. In the case of manual reception, service code F941 will be recorded if there is no mail.

**Note 1:** Internet Fax receives mail in memory. Check to make sure that there is a sufficient free memory space to receive fax messages. If there is not, reception of a message may be terminated before reception is completed.

**Note 2:** The size of TIFF that can be received with Internet Fax is approximately half the size of the memory capacity. Memory full may generate when receiving a large size original. In such a case, have the original divided and sent.



## 2.12 Receiving Tiff file

This machine receives mail messages with Tiff-format attachments in the mail server and prints out the attached files. This machine can print out Tiff files in the Simple Mode defined in ITU-T T.37. It can also receive files at the 300 × 300dpi or 200 × 400dpi resolution when expanded, and files in MR or MMR compression mode. It cannot print out files of any other Tiff-formats, and if it receives such as file, a communication error will occur and an error report will be printed.

**Note:** The Tiffs available to be received by the Internet FAX are the Tiff Profile-S and the followings.

- a. The ones with the resolution of 200 × 400, 300 × 300.
- b. Tiffs made by Imaging of Microsoft.

(However the ones other than that the encoding style is CCITT Group3(1d) FAX, that the manuscript main scan bit value is more or less than the one stated by the T.4, can not be received.)

**Note:** The ones available to be received by the Internet FAX are the Emails that contain Tiff or TEXT, but if the MIME format is like followings, then they can not be received.

- a. The ones with the attached Tiffs that are using Encoding style other than Base64.
- b. The ones with the mail TEXT encoded.
- c. The ones with the Tiff Content-type other than the image/Tiff (the format stated in the Internet FAX) and the application/octet-stream (Note\*a).

When a mail is sent from the mailer to the Internet FAX, please specify the encoding style of the MIME to the Base 64.

**Note\*a:** MS Outlook2000 sends TIFF files using the format of the Content-Type : application/octet-stream. This format is used also when the TEXT from the Lotus Notes is attached to the sending mail.

Thus, it supports the Content Type of this style.

Also, in case of Content-Type : application/octet-stream, both types of attachment and inline format of the Content-disposition can be received, and it refers the file name existing there.

If the extension of the file name is ".txt" or ".tif"(".tiff") then each will be printed out.

Other extension files will not be printed out.

**Note:** In case when the TEXT format is encoded by another format like Base64 and the like, then it will not be decoded and will be printed out as it is.

## 2.13 Receiving text

Body text of an e-mail can be printed by turning the TEXT PRINT setting ON. E-mail from an Internet Fax often comes with added messages (text) before and after the Tiff file and this function can be used to print these messages out. The table below shows the characters that can be printed out by this machine.

|   | 00 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | A0 | B0 | C0 | D0 | E0 | F0 |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0 |    |    | SP | 0  | @  | P  | '  | p  |    |    |    |    |    |    |    |    |
| 1 |    |    | !  | 1  | A  | Q  | a  | q  |    |    |    |    |    |    |    |    |
| 2 |    |    |    | 2  | B  | R  | b  | r  |    |    |    |    |    |    |    |    |
| 3 |    |    | #  | 3  | C  | S  | c  | s  |    |    |    |    |    |    |    |    |
| 4 |    |    | \$ | 4  | D  | T  | d  | t  |    |    |    |    | Ä  |    | ä  |    |
| 5 |    |    | %  | 5  | E  | U  | e  | u  |    |    |    |    |    |    |    |    |
| 6 |    |    | &  | 6  | F  | V  | f  | v  |    |    |    |    |    | Ö  |    | ö  |
| 7 |    |    |    | 7  | G  | W  | g  | w  |    |    |    |    |    |    |    |    |
| 8 |    |    | (  | 8  | H  | X  | h  | x  |    |    |    |    |    |    |    |    |
| 9 |    |    | )  | 9  | I  | Y  | i  | y  |    |    |    |    |    |    |    |    |
| A |    |    | *  | :  | J  | Z  | j  | z  |    |    |    |    |    |    |    |    |
| B |    |    | +  | ;  | K  | [  | k  | {  |    |    |    |    |    |    |    |    |
| C |    |    | ,  | <  | L  | \  | l  |    |    |    |    |    |    | Ü  |    | ü  |
| D |    |    | -  | =  | M  | ]  | m  | }  |    |    |    |    |    |    |    |    |
| E |    |    | .  | >  | N  | ^  | n  | ~  |    |    |    |    |    |    |    |    |
| F |    |    | /  | ?  | O  | _  | o  |    |    |    |    |    |    | ß  |    |    |

To print out the information in the mail header, set TEXT PRINT to ON. This fax machine can print only plain format text that has not been encoded by Base64 etc. If e-mail messages or text-file attachments have been encoded, printouts may be garbled.

## 2.14 Network scanner

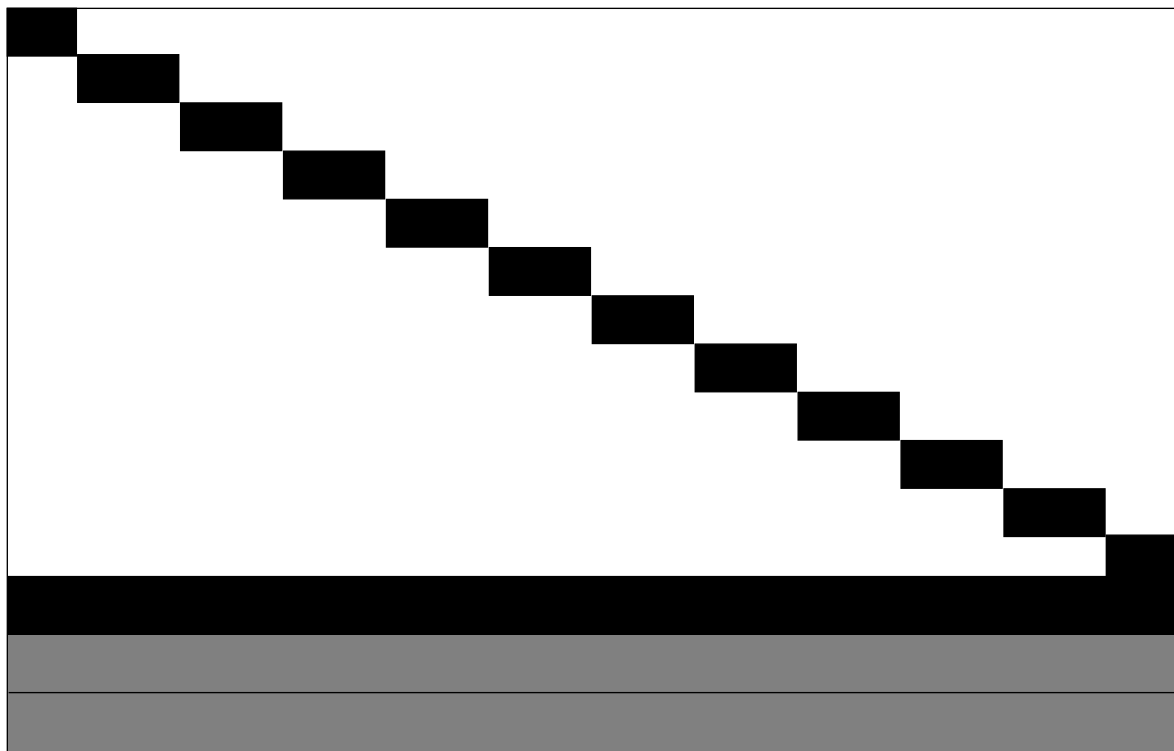
This fax machine can be used as a network scanner. Scanning is carried out as if sending an Internet Fax, but specifying the email address to which the scanned document should be sent. The recipient of the transmission, then receives the document on their PC as a TIFF file. Resolution of the TIFF file can be set to a maximum of 600 ¥ 600 dpi in EX-FINE mode to create a high-quality scanned image file.

**Note:** The resolution of the scanned image can be set between 300 and 600 dpi through the user function EX.FINE MODE in I-FAX NIC SETTING.

When using this fax machine as a scanner, set 90:SENDER ID (EMAIL) to OFF so that the sender ID will not be added at the top of the document.

### 3. Explanation of Self-diagnosis Report on NIC

An example of a self-diagnosis report when a NIC is installed is shown below.  
In this case, ① ~ ③ shown in the picture are additionally displayed.



|                  |                   |            |       |
|------------------|-------------------|------------|-------|
| CPU-ROM VERSION  | aaaa              |            |       |
| HASH             | OK                | hhh        |       |
| CPU-RAM          | OK                |            |       |
| PROGRAMVERSION   | aaaa              |            |       |
| HASH             | OK                | hhh        |       |
| LANGUAGE VERSION | aaaa              |            |       |
| HASH             | OK                | hhh        |       |
| DEFAULTVERSION   | aaaa              |            |       |
| HASH             | OK                | hhh        |       |
| RAM1             | OK                |            |       |
| RAM2             | OK                |            |       |
| DEFAULTTYPE      | 01                | 11/01/2002 | 12:00 |
| MODEM VERSION    | hhh               |            |       |
| I-FAX NIC        | OK                | nn         | ①     |
| PROGRAM VERSION  | aaaaaa-nnnn-nnn   |            | ②     |
| MAC ADDRESS      | 00.C0.26.39.23.38 |            | ③     |

a: Alphabet and digit  
h: Hexadecimal numeral  
n: Digit

- ① “OK” is displayed for normal NIC operation; “NG” and factors are displayed in a 2-digit numeral for abnormal NIC operation.  
01: Failure of I/F operation check  
02: Failure of NIC operation check
- ② The NIC version is displayed.  
aaaaaa-nnnn-nnn  
The first 6-digit alphabet/numeral “aaaaaa” indicates the NIC firmware version.  
The second 4-digit numeral “nnnn” indicates the NIC boot block version.  
The last 3-digit numeral “nnn” indicates the NIC hardware version (561 or 661).
- ③ The MAC address of a NIC is displayed.

## 4. NIC Firmware Update Methods

**Note:** Attention] Generally updating of a NIC firmware is not necessary, but it shall be executed whenever necessity arises to cope with problems and such. In that case, be sure to update the version with full understanding of this manual.

### 1. General Outlines

A NIC firmware can be updated by receiving e-mail.

To be specific, when a firmware is sent to a OKIFAX 4580 by e-mail, the firmware is automatically updated as the OKIFAX 4580 is receiving POP.

### 2. Procedures

- ① Provide a NIC firmware file.

Configuration of a name of a NIC firmware file is as follows.

Example) I5L702P01.imz  
 "I": Fixed letter  
 Following numeral: NIC hardware version (5 or 6)  
 "L": Fixed letter  
 "702P01": Firmware version

There are two types in the NIC, and they are distinguished by the second first character.

Numeral "5": Hereinafter referred to as Type A.

Numeral "6": Hereinafter referred to as Type B.

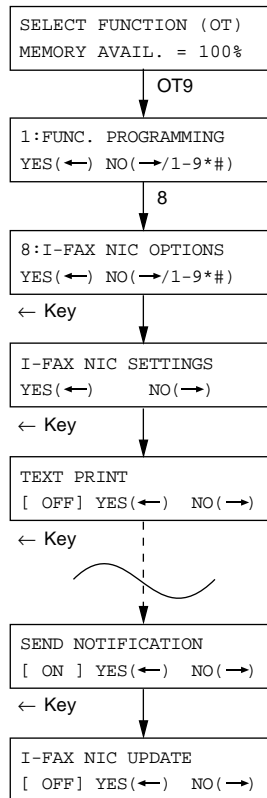
I5L702P01.imz → Type A  
 I6L702P01.imz → Type B

For updating a NIC firmware, output a self-diagnosis report by a OKIFAX 4580 used for updating. Then check the hardware version indicated in a 3-digit numeral and is next to PROGRAM VERSION in the report. The numeral 561 is Type A, and the numeral 661 is Type B. Be note that only a firmware, whose hardware version type is the same to that of the device, can be updated.

- ② In user-selectable settings, select YES of I-FAX NIC SETTINGS, follow procedures and change the setting to ON of I-FAX NIC UPDATE. (See Operation Flowchart.)

**Note:** This setting is automatically reset to OFF at the completion of firmware updating. Be sure to leave the setting OFF always.





### Operation Flowchart

- ③ Send the provided firmware file to the OKIFAX 4580 by e-mail.

For sending the firmware file, enter the characters, which are specified later on, into Subject and text, and then attach the firmware file to e-mail and send it via mail clients, such as Netscape Messenger, Outlook and Outlook Express.

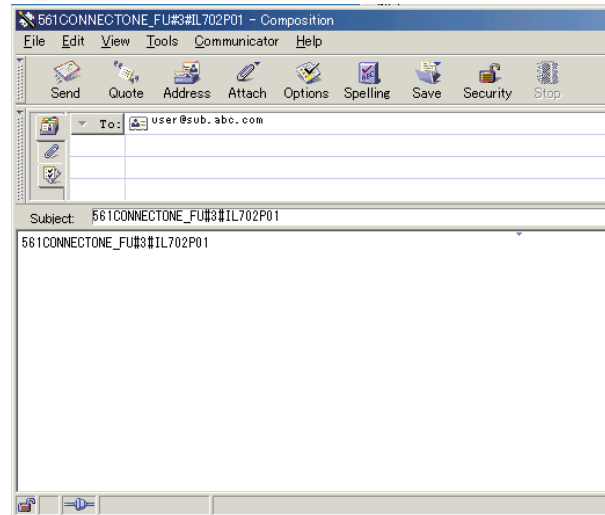
**Caution:** Among mail clients, proper functioning of Netscape Messenger, Outlook and Outlook Express are confirmed, but those of other mail clients are out of guarantee. When sending e-mail, be sure to select TEXT format from sending formats. Keep in mind that the default set sending format of Outlook and others is HTML format.

[Type A]

In Subject and text, enter  
561CONNECTONE\_FU#3#I<L and following characters of the firmware file name>  
and then send it.

For example, if the file name is I5L702P01.imz, enter  
561CONNECTONE\_FU#3#IL702P01.

An example with Netscape Communication 4.73 is shown in Plate 1.



[Type B]

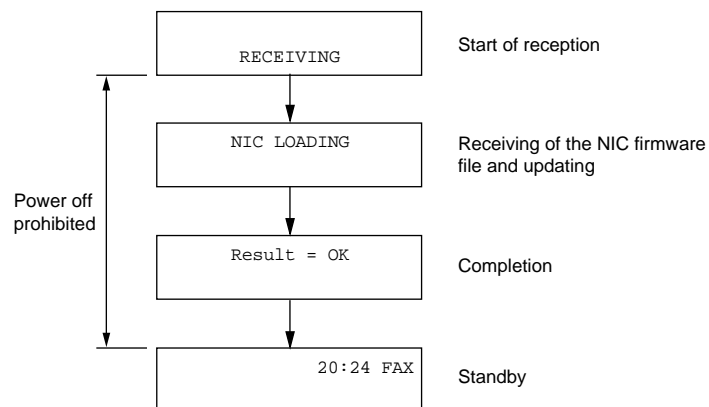
In Subject and text, enter  
661CONNECTONE\_FU#3#I<L and following characters of the firmware file name>  
and then send it.

For example, if the file name is I5L702P01.imz, enter  
661CONNECTONE\_FU#3#IL702P01.

④ Receive e-mail with the OKIFAX 4580.

Following indications are displayed as the OKIFAX 4580 receives the NIC firmware file. When the update of the firmware completes, a result appears.

It takes about 4 minutes for updating.



**Warning:** Never turn off the power until the result is displayed. Otherwise, the NIC firmware file may crash and become incapable to boot up.

- ⑤ Print out a self-diagnosis report and check the version of the NIC firmware.
- ⑥ Delete “the e-mail attached with the NIC firmware file is attached” from the server Mailbox of the OKIFAX 4580.

**Caution:** The e-mail attached with the NIC firmware file” remains in the mail server after it is received in the OKIFAX 4580. Be sure to delete “the e-mail attached with NIC firmware file”, which remains in Mailbox of the OKIFAX 4580, using mail clients, such as Netscape Messenger, Outlook and Outlook Express.

### 3. Important

- ① Concerning errors at the time of e-mail receiving, an improper setting of POP server or such is a probable cause. Thus, confirm in the service code and check the setting etc. again.
- ② In the case that a NIC firmware sent to a OKIFAX 4580 is not received, a firmware is not updated or an error arises, following factors may be the cause.
  - a) The user-selected I-FAX NIC UPDATE is OFF.
    - Change it to ON.
  - b) There is a mistake in characters that were entered in Subject and text when sending a NIC firmware file.
    - Check whether the characters were properly entered.
  - c) Non-recommended mail clients are used.
    - As some mail clients automatically add characters into text, sometimes receiving can not be executed properly. For this reason, use Netscape Messenger, Outlook or Outlook Express recommended.
  - d) The selected sending format of mail clients is HTML format.
    - Select TEXT format.
  - e) The type of the updated firmware is different from that of current firmware of OKIFAX 4580.
    - The same type firmware is essential.
  - f) If an old firmware remains in Mailbox, be sure to delete it before updating a firmware.

## 5. Troubleshooting

### 5.1 Service codes

If a communication error occurs, check the service code shown on the Activity Report.

#### **SMTP communications**

The service code for a SMTP communication is prefixed with the letter E.

|       |  |
|-------|--|
| 0000: | Normal shutdown  |
| 9080: | Press stop key   |
| E058: | Failed in SMTP connection  |
| E074: | Cable not connected  |
| E081: | DNS cannot solve SMTP server name  |
| E082: | No response from SMTP server   |
| E083: | Error generated in SMTP command sequence                                       |
| E108: | Transmission attempted when destination was not set                            |
| E109: | Transmission attempted when mail address of own device not set                 |
| E110: | Transmission attempted when SMTP server not set                                |
| E401: | Communication was attempted when the IP address of the own device was not set. |
| E942: | Command timeout  |
| E990: | Other error  |
| EF00: | Option board I/F error   |

**Note:** For service codes E001 and E002, the number of pages in the report will be left blank.

#### **POP3 communications:**

On this fax machine, the codes will be prefixed with the letter F.

|       |  |
|-------|--|
| 0000: | Normal shutdown  |
| F001: | Normal shutdown (only text received)                     |
| F002: | Normal shutdown (only text received but cannot print)    |
| F059: | Failed in POP connection                                 |
| F074: | Cable not connected                                      |
| F076: | DNS cannot solve POP server name                         |
| F077: | No response from POP server                              |
| F078: | Incorrect POP user name/password                         |
| F079: | Error generated in POP command sequence                  |
| F105: | Reception attempted when POP server was not set          |
| F106: | Reception attempted when POP user name was not set       |
| F113: | Failed in updating NIC firmware                          |
| F401: | IP address not set                                       |
| F931: | Unreceivable e-mail (TIFF NG)                            |
| F932: | Unreceivable e-mail (other than TIFF NG)                 |
| F940: | Memory full  |
| F941: | When mail does not exist in server upon manual reception |
| F942: | Command timeout  |
| F990: | Other error  |
| FF00: | Option board I/F error                                   |

**Note:** For service codes F001 and F002, the number of pages in the report will be left blank.

## 5.2 Transmission troubleshooting

Transmission fails; a communication error occurs.

- Are the IP ADDRESS, SubNet Mask and Default Gateway settings correct?
- Has the SMTP server been configured correctly?
- If using DNS, is the DNS server address correct?
- Check to make sure that the server is not down.
- If DNS is ON, some servers may cause an error.

When one-touch key is pressed with an email address assigned, a warning message appears on the LCD.

- Has an e-mail address been entered that has been assigned on this machine?

LCD shows message "OPTION BOARD ERROR".

- A network card I/F error has occurred - turn the power off and on again to recover.

The Tiff file sent cannot be printed out on the receiver.

- Is the file sent at EX-FINE resolution or in coding mode other than MH? T.37 simple mode Internet Fax products support only the STD and FINE resolution settings and MH coding mode.

It seems that the Sender ID is added to the subject when transmitted?

- In case the Sender ID (Email) setting is ON, automatically the Sender ID set in the Internet FAX is add to the Subject and Message Body.

I want to send it by PDF.

- The selection of transmission file format either Tiff or PDF is available. Also it is available to specify with Email key by every transmission. Also, it is available to specify with the speed dial communication parameter.

I don't want to send the message body sent by the Internet FAX.

- It is available to set it with the user setting so the message body (fixed) sent by the Internet FAX will not be sent.

I want to send by address of CC:.

- It is not available to specify the sending address as CC.

## 5.3 Reception troubleshooting

Reception fails; a communication error occurs.

- Are the IP ADDRESS, SubNetMask and Default Gateway settings correct?
- Has the POP server been configured correctly?
- If using DNS, is the DNS server address correct?
- Is the USER ID correct as registered on the POP server?
- Is the password correct as registered on the POP server?

Reception does not start.

- Has the POP interval been set at OFF?
- Is there a sufficient free memory space? Images have to be first stored in memory and cannot be received if there is not enough space.

When receiving data manually, a warning message appears on the LCD.

- Is the POP server and USER ID registered?

The LCD shows message OPTION BOARD ERROR.

- A network card I/F error has occurred - turn the power off and on again to recover.

A communication error occurs during reception, and a report is printed out.

- The received file is not of a format supported by this machine.

Data is sent from an email client on a PC to the InternetFAX, but the reception has failed.

- Is Tiff format used supported by this Internet Fax?
- If only a text has been sent, it will not be printed out unless the TEXT PRINT setting is ON.
- Some e-mail clients send e-mail using unusual formats which this fax machine cannot receive.

The fax machine prints out a large number of meaningless characters.

- It may be printing out Base64-encoded data that the Internet FAX can not decode. If this occurs frequently, change the TEXT PRINT setting to OFF.

Communication errors occur, and service code F078 is given each time.

- The POP server password or user ID may be wrong, causing the server to return authentication errors.

Can PDF files be received?

- PDF files can be sent but it can not be received.

## 6. Functional Comparison Table

|  | OKI Printer<br>PX711/713 | FX056/176<br>Network Kit | FX046VP<br>ICP |
|--|--------------------------|--------------------------|----------------|
| <b>Novel</b>                                 |                          |                          | No             |
| • Netware 3.x                                | Yes                      | Yes                      |                |
| • Netware 4.0 and 4.11 (NDS)                 | Yes                      | Yes                      |                |
| • PServer and RPrinter                       | Yes                      | Yes                      |                |
| • Auto attach/re-attach to File Server       | Yes                      | Yes                      |                |
|  |                          |                          |                |
| <b>Microsoft</b>                             |                          |                          |                |
| • Windows NT 4.0/2000 (TCP/IP)               | Yes                      | Yes                      |                |
| • Windows 95/98/Me (TCP/IP)                  | Yes                      | Yes                      |                |
| • Lpr/lpd support (WinNT)                    | Yes                      | Yes                      |                |
| • NetBeui (only phase 2)                     | Yes                      | Yes                      |                |
|  |                          |                          |                |
| <b>UNIX</b>                                  |                          |                          |                |
| • Sun Solaris 2.x/OS 4.x and higher          | Yes                      | No                       |                |
| • SCO v2.2 and higher                        | Yes                      | No                       |                |
| • AIX 3.0, BSD 4.2, HP-UX 8.x/9.x and higher | Yes                      | No                       |                |
|  |                          |                          |                |
| <b>Ethertalk</b>                             |                          |                          |                |
| • Macintosh System 6.x, 7.x and 8.x          | Yes                      | No                       |                |
| • Auto sense Phasel/Phasell                  | Yes                      | No                       |                |
|  |                          |                          |                |
| <b>LAN Manager/LAN server</b>                |                          |                          |                |
| • LAN Manager v2.0c and higher               | Yes                      | No                       |                |
| • LAN Server v1.3, 2.x, 3.x                  | Yes                      | No                       |                |
|  |                          |                          |                |
| <b>DEC</b>                                   |                          |                          |                |
| • DEC VMS - all versions (LAT)               | Yes                      | No                       |                |
|  |                          |                          |                |
| • SMTP TX                                    | Yes                      | Yes                      | Yes            |
| • SMTP RX                                    | Yes                      | Yes                      | No             |
| • POP3                                       | Yes                      | Yes                      | Yes            |

## APPENDIX G FLATBED SCANNER (Avision Inc.:DS310F) TROUBLESHOOTING

### 1. CONNECTION

DS310F made by Avision Inc. is the only flatbed scanner that can be connected to OKIFAX 4580.

As for the software CD attached with the DS310F and DS310F main unit, please refer to the manual for DS310F or contact Technical Support in Avision Inc. for details.

Technical Support

AVISION INC.  
 No.20, Creation Rd. I, Science-Based  
 Industrial Park, Hsinchu 300,  
 Taiwan, R.O.C.  
 TEL: +886 (3) 578-2388  
 FAX: +886 (3) 577-7017  
 Web Site: <http://www.avision.com.tw>  
 E-mail: [service@avision.com.tw](mailto:service@avision.com.tw)

AVISION and DS310F are registered trademarks of AVISION INC.

#### 1.1 An error occurs when the power for DS310F is turned ON.

> Is the status of the lock switch for used during transport locked?

Disconnect the power cable from the power jack to turn the power OFF, then set the lock switch at the bottom of the DS310F main unit to "Unlock". Refer to the manual for DS310F regarding the position and how to set the lock switch.

> Is DS310F connected to the computer properly?

Check if the printer cable is connected to the port marked "TO PRINTER" on the back of DS310F and the centro port of OKIFAX 4580.

> Is the power of OKIFAX 4580 turned ON?

Turn the power of OKIFAX 4580 ON.

An error will appear on the DS310F LCD if the power of the printer connected to the "TO PRINTER" port for DS310F is turned OFF or if the printer cannot receive due to an alarm, etc.

#### 1.2 OKIFAX 4580 does not function even when the "Copy" button on DS310F is pressed.

> Are connections accurate?

Connect securely to OKIFAX 4580 with a printer cable.

→ Refer to "1.1 An error occurs when the power for DS310F is turned ON".

> Is OKIFAX 4580 set properly?

Confirm that user function No. 33 "OPTION I/F MODE" is set to SCN. or NET. Functions connected with DS310F are disabled if connection is made to MFPI, therefore, reconnect to SCN. or NET. Furthermore, if the setting is changed, turn OFF the power of OKIFAX 4580 once, and then turn it ON again.

> Is DS310F set properly?

Copying is disabled on the OKIFAX 4580 side if DS310F is set as in the table below, therefore, change it to a valid setting.

| Item           | Invalid Setting                                     | Valid Setting |
|----------------|---|---------------|
| Printer Select | PJL/PCL<br>PJL/PCL DUPLEX<br>ESC/PAGE<br>ESC/PAGE-C | PCL Emulation |
| Normal/Quality | Quality   | Normal        |

Refer to the DS310F manual for details on each item.

If "Normal/Quality" is set to "Quality", [DATA ERROR] will appear in the LCD on the OKIFAX 4580 side and image data received from DS310F will be discarded.

Furthermore, if "Printer Select" is set to an item other than "PCL Emulation", operation will not be guaranteed with OKIFAX 4580.

To be specific, the received image data from DS310F may not be printed or come out garbled.

> Is an error generated in OKIFAX 4580?

If the ALARM LED on OKIFAX 4580 is illuminating, release the error according to the "7.3 Alarm LED On" section in the Maintenance Manual.

> Is OKIFAX 4580 connected to the PC?

Refer to Clause 4.



## 2. FLATBED COPY FUNCTIONS

### 2.1 Nothing is printed as a result of copying or only a few dots are printed.

> Is an original set in DS310F?

Set an original if none is set.

The rear side of the document cover is read when reading is attempted without setting an original, therefore, the result will come out in white.

> Is the side of the original you wish to print faced down?

Set the original so that the side you wish to print is facing down.

> Is the "Lighter or Darker" setting for DS310F set properly?

Press the "Lighter/Darker" button and increase the darkness level.

### 2.2 The copied image is dark, or the background color or the rear side of the original is printed.

> Is the "Lighter or Darker" setting for DS310F set properly?

Press the "Lighter/Darker" button and decrease the darkness level.

> Is the "Background Remove" setting on DS310F set to OFF?

If there is a color background in the original, press the "Background Remove" button and change the setting to ON. For details, refer to the DS310F manual.

> Is the original so light that the rear side can be seen through?

When copying a light original, the image on the rear side or the stacked page may appear. This can be prevented by setting a black paper or board on top of the original.

### 2.3 The copied image is larger or smaller than the original.

> Is "enlargement/reduction" set to 100% in DS310F?

Set to 100% by pressing the "Reduce/Enlarge" button.

For details, refer to the DS310F manual.

### 2.4 The copied image is shrunk or only half of the image is printed in the vertical direction.

> Is the paper size set in DS310F the same as the size set in OKIFAX 4580?

If the image data received from DS310F does not fit in one page, OKIFAX 4580 reduces the image in the vertical direction to fit the image in one page. Therefore, the setting for "Paper Size" in DS310F must match with user function No.13 "PAPER SIZE" in OKIFAX 4580.

A4, Letter, and Legal are the three sizes that can be selected in DS310F. The length of Legal is 14 inches.

> Is "HALF SIZE SCAN" in OKIFAX 4580 set to ON?

If user function No. 38 "HALF SIZE SCAN" is set to ON, OKIFAX 4580 prints only the upper half section of the image received from DS310F and the lower half is not printed.

Therefore, change this setting to OFF.

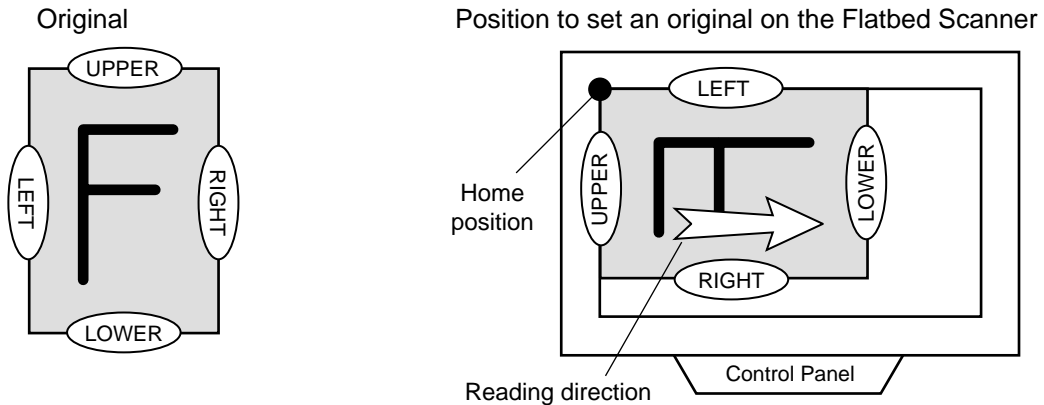
2.5 The copied image is deviated, skewed, or certain portions are not printed.

> Is the guide-paper position that sets the recording paper in OKIFAX 4580 accurate?

Check that the position of the guide-paper in the tray is adjusted to the recording paper size set in user function No. 13 "PAPER SIZE" for OKIFAX 4580. Also confirm that there is no bent recording paper set in the tray.

> Is the original in DS310F set properly?

The original must be set straight when viewed from the front of DS310F, set against the deep left edge of the document glass.



> Is the original set in DS310F skewed?

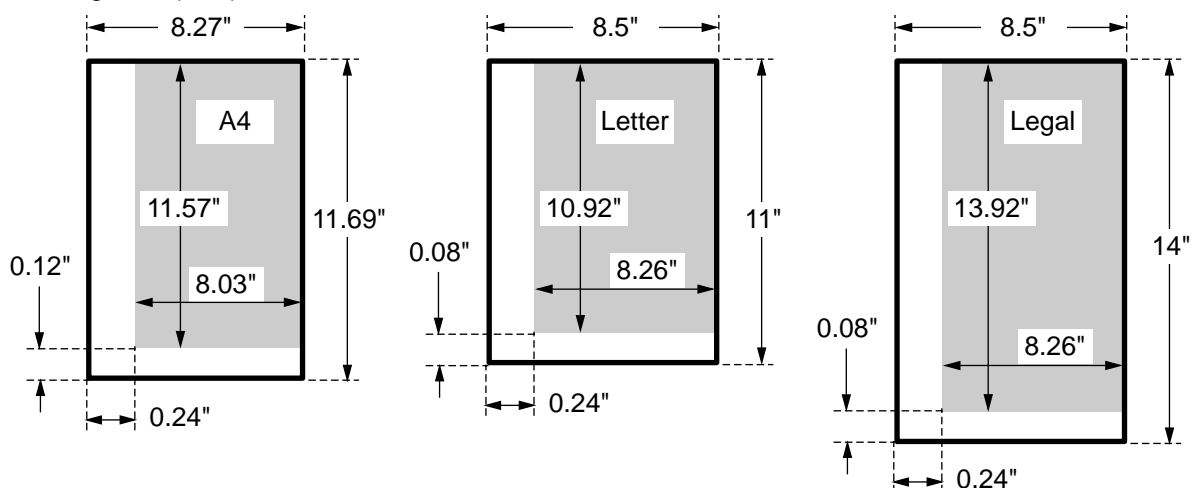
The read range in DS310F will become narrow if the original is skewed, therefore, set it straight. Furthermore, close the cover for DS310F slowly so that the original does not move.

> There are sections that cannot be captured by DS310F.

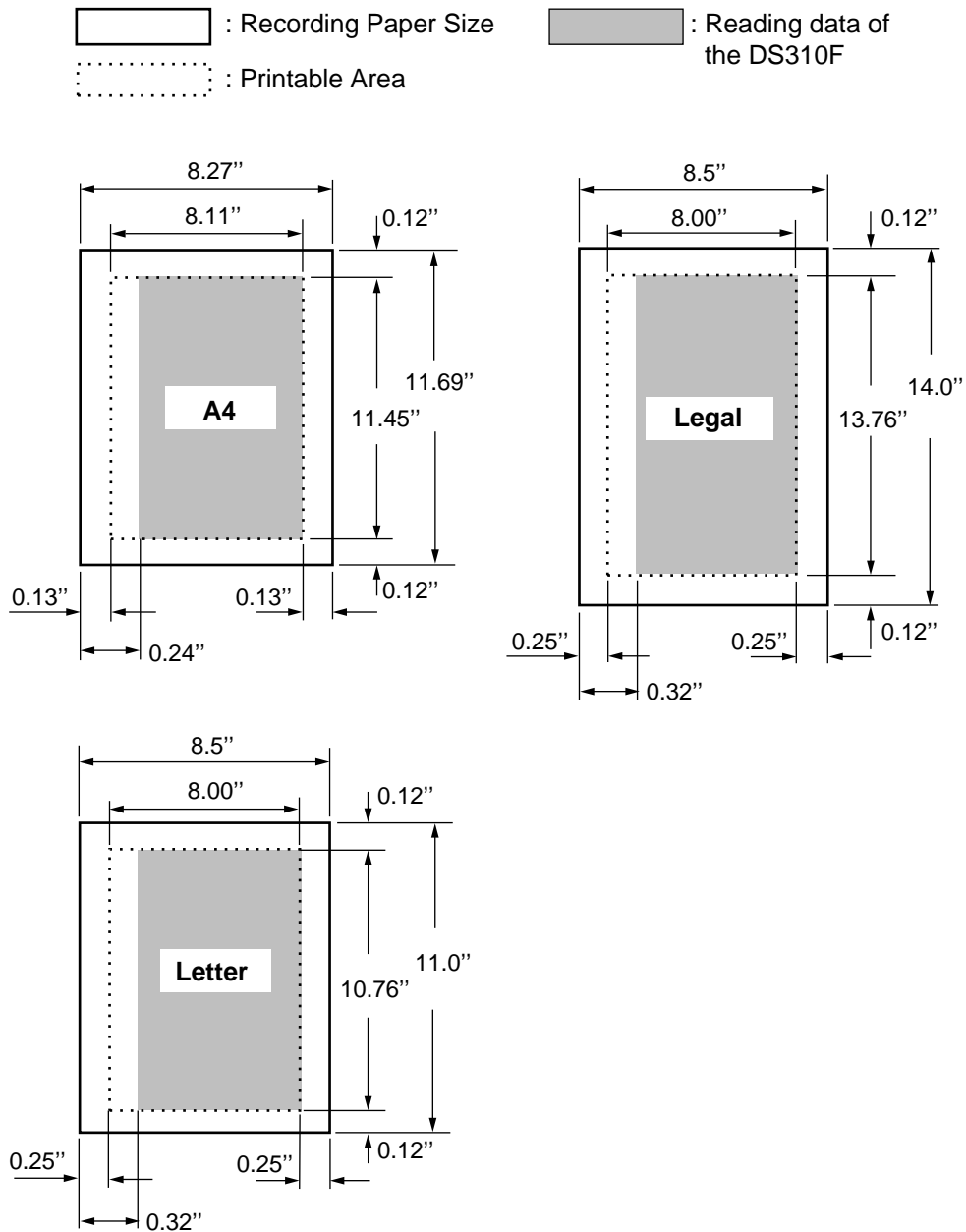
The following ranges cannot be read with DS310F depending on the size of the original. (DS310F specification)

| Scale | Edge  | Original size you select in DS310F                  |   |   |
|-------|-------|---|---|---|
|       |       | A4  | Letter  | Legal   |
| 100%  | Upper | Possible from the upper.                            | Possible from the upper.                            | Possible from the upper.                            |
|       | Lower | Approx. 0.12" (3mm) from the lower is not read.     | Approx. 0.08" (2mm) from the lower is not read.     | Approx. 0.08" (2mm) from the lower is not read.     |
|       | Left  | Approx. 0.24" (6mm) from the left edge is not read. | Approx. 0.24" (6mm) from the left edge is not read. | Approx. 0.24" (6mm) from the left edge is not read. |
|       | Right | Possible to the right edge.                         | Possible to the right edge.                         | Possible to the right edge.                         |

Reading area (inch)



The printable areas in FLATBED COPY mode is the following.



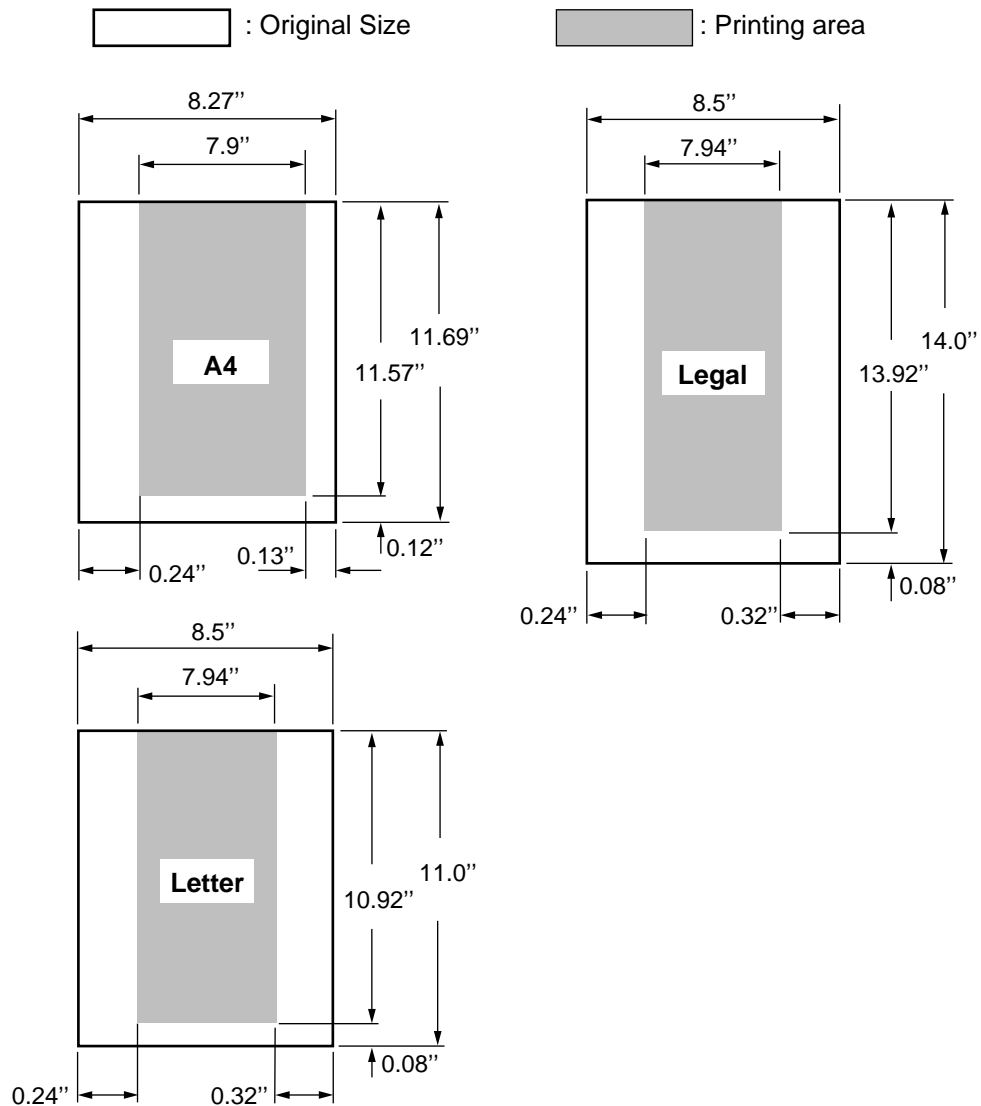
Because DS310F does not read 0.24" (6mm) from the left edge of the original, it adjusts print position by providing margin at the left edge of recording paper with reference to A4 size.

In sub-scan direction, the image is variably scaled down so that all the ranges that DS310F reads can fit the printable area of the recording paper.

The following table shows DS310F's reading original sizes and scales with recording paper in OKIFAX 4580

| Recording paper size you select in OKIFAX 4580 | Original size you select in DS310F |             |       |
|--|------------------------------------|-------------|-------|
|  | A4                                 | Letter      | Legal |
| A4   | 99%                                | Almost 100% | 83%   |
| Letter   | 93%                                | 99%         | 77%   |
| Legal (13)                                     | Almost 100%                        | Almost 100% | 92%   |
| Legal (14)                                     | Almost 100%                        | Almost 100% | 99%   |

As a result, FLATBED COPY actually prints the following ranges of the actual reading original.



When DS310F's reading results in stretched image in main scan direction, the equivalent right edge of the read original is not printed because the print start position in the main scan direction is fixed.

The following table shows the missing area at the original right edge for each image stretch rate.

| Image stretch rate | Letter original width : Image stretch size | Letter original right edge : missing area |
|--------------------|--|---|
| 0.5%               | 0.042" (1.079mm)                           | 0.363" (9.21mm)                           |
| 1%                 | 0.085" (2.159mm)                           | 0.405" (10.29mm)                          |
| 1.5%               | 0.128" (3.239mm)                           | 0.448" (11.37mm)                          |
| 2%                 | 0.17" (4.318mm)                            | 0.49" (12.45mm)                           |

In case of FLATBED TX mode, all the ranges read by DS310F are transmitted.

Printable area of a remote machine depends on the specification of the remote machine.

If you wish to read the original from the left edge, set the original by leaving a space of 0.24" (6mm) or more on the top section of the document glass. However, an area worth the same spaced will be left out from the right side of the original.

Furthermore, by pressing the "Reduce/Enlarge" button on DS310F and setting the value to below 100%, the size of the printed image will be reduced, however, the read range may broaden.

## 2.6 To increase the quality of a printed image.

> Does the focus setting for DS310F match the image type of the original?

The quality of a printed image may improve by adjusting the “Auto/Text/Photo” setting to the nature of the original.

For details, refer to the DS310F manual.

> Is the “Lighter/Darker” setting in DS310F appropriate?

Press the “Lighter/Darker” button and adjust the level.

> The resolution for printing with OKIFAX 4580 is fixed at 300DPI.

The resolution of an image data received from DS310F is fixed at 300DPIx300DPI.

Copying cannot be performed at a different resolution.

## 2.7 “copy count”.

> “Copy count” can be set in a range of 1 to 99 pages with DS310F.

With OKIFAX 4580, the same number of pages set in the “copy count” setting in DS310F can be printed for the same original. The currently printed page number will be indicated on the top line of the OKIFAX 4580 LCD.

Even if paper-end or paper jam occurs while printing, the remaining pages will be printed after recovery.

For details on the “copy count” setting for DS310F, refer to the DS310F manual.

## 2.8 The “Stop” key on OKIFAX 4580 was pressed to discontinue the copy operation while reading from DS310F, however, the indication remained at “STOPPED”.

> Is the read operation being continued for the one original with DS310F?

When the “Stop” key is pressed while receiving data from DS310F, OKIFAX 4580 continues to display “STOPPED” until image data for one original is received.

Therefore, if DS310F continues to read, the indication will change to standby when reading is complete.

However, if reading is discontinued, for example, when the DS310F power is turned OFF, image data for one original will not be sent to OKIFAX 4580, and the display will change to standby when a specified time exceeds from the time the image data was disconnected. The time can be set with user function No. 35 “PRINT JOB T.O.” and can be selected from “5SEC”, “30SEC”, or “5MIN”.

## 2.9 Meaningless characters or symbols are printed. (Characters are garbled.)

### > Is the printer cable disconnected?

Confirm that a printer cable is connected securely to OKIFAX 4580 and DS310F.  
→ Refer to “1.1 An error occurs when the power for DS310F is turned ON”.

### > Is print being performed from the PC?

When copy is being performed while printing from the PC by connecting OKIFAX 4580 to the PC via DS310F, print data from the PC and reading image data from DS310F will be mixed, therefore, garbled characters will be printed.  
Press the “Copy” button on DS310F after data has been printed from the PC.  
→ Refer to “4. Downloading Print”.

### > Did you turn OFF the power of the DS310F during reading? Or, did you stop a copy by pressing the "STOP" key on OKIFAX 4580 during reading?

Read image data from DS310F remains in a half-finished status.  
Turn ON the power of DS310F and OKIFAX 4580 again.

## 2.10 The set content returns to its prior status even when changing the setting with DS310F.

### > The following restrictions exist for operating DS310F.

The contents for “Printer Select” and “Paper Size” settings are saved even when the power of DS310F is turned OFF, however, other settings are returned to their initial status in the following conditions.

- When the “All Clear” button is pressed.
- When the power is turned OFF.
- When approx. one minute exceeds after ceasing operating while changing the setting. → Returns to a standby status.

The initial values are listed below.

| Item              | Initial Value    |
|-------------------|------------------|
| Copy Count        | 1                |
| Auto/Text/Photo   | Photo            |
| Normal/Quality    | Normal           |
| Lighter/Darker    | The fourth level |
| Reduce/Enlarge    | Ratio:100%       |
| Background Remove | on               |

### 3. FLATBED FAX TX FUNCTIONS

#### 3.1 The "FAX TX" function cannot be selected with OKIFAX 4580

The "FLATBED FAX TX" function must be selected in OKIFAX 4580 in advance in order to apply the function, however, check the following items if the function cannot be selected.

> Is there a problem with the OKIFAX 4580 setting?

Check if user function No. 33 "OPTION I/F MODE" is set to SCN. or NET.

→ Refer to "1.2 OKIFAX 4580 does not function even when the "Copy" button on DS310F is pressed".

If technical function No. 35 "LEASED LINE" is set to ON, the "FAX TX" function cannot be selected as the destination for transmission does not have to be selected.

Change this setting to OFF.

Furthermore, if technical function No. 26 "RESTRICT ACCESS" is set to ON, a password must be input in order to release operational restrictions. The "FAX TX" function can be selected as usually after the restrictions are released by inputting a password.

However, a password cannot be input while a different operation such as data reception or auto report print is being performed, thus, operational restrictions cannot be released. Therefore, release operational restrictions after the operation that is currently running ends, then select the "FAX TX" function.

> Is an original set in the ADF of OKIFAX 4580?

The "FAX TX" function cannot be selected if an original is set in the OKIFAX 4580 ADF. Select the destination for transmission after removing the original in the ADF.

> Is print being performed from the PC?

The "FAX TX" function cannot be selected while printing from the PC by connecting OKIFAX 4580 to the PC via DS310F. Operate OKIFAX 4580 after the print operation from the PC is finished.

→ Refer to "4. Download Print".

> Is an error generated in OKIFAX 4580?

If the Alarm LED in OKIFAX 4580 is illuminating, release the error according to the contents in "7.3 Alarm LED On" in the Maintenance Manual.

#### 3.2 The "FAX TX" operation does not start.

>Is the status standing by for the next original?

As more than one original are sent in one batch with OKIFAX 4580, an operation for moving to the "FAX TX" operation is required when the final original is read.

The "FAX TX" operation will begin by pressing the "Start" key with "FLATBED FAX TX" displayed in the top line and "PRESS START" displayed in the bottom line of the OKIFAX 4580 LCD.

If the indications in the LCD are the same, the "FAX TX" operation will begin automatically even without pressing the "Start" key when the time for standby set in user function No. 37 "FLATBED TX T.O." is exceeded.

"OFF", "30SEC", or "1MIN" can be selected for "FLATBED TX T.O.". When "OFF" is selected, no time will be displayed for standby and the "FAX TX" operation will start right after receiving image data for one page from DS310F.

> Was a certain length of time required for setting an original in DS310F after selecting the "FAX TX" function?OKIFAX 4580

stands by to receive reading image data from DS310F by selecting the "FAX TX" function, however, when one minute exceeds in the same state, it stands by after releasing the selecting for the "FAX TX" function.

For this reason, press the "Copy" button on DS310F and start reading within one minute after selecting the "FAX TX" function.

> Is an error generated in OKIFAX 4580?

There is a problem with the DS310F setting if "DATA ERROR" is displayed in the bottom line in the OKIFAX 4580 LCD.

→ Refer to "1.2 OKIFAX 4580 does not function even when the "Copy" button on DS310F is pressed".

If the ALARM LED on OKIFAX 4580 is illuminating, release the error according to the "7.3 Alarm LED On" section in the Maintenance Manual.

### 3.3 The resolution cannot be changed.

> The "YES" key of OKIFAX 4580 that indicates resolution is invalid.

The "Yes" key (PHOTO/EX-FINE/FINE/STD) that indicates the resolution is invalid while "FAX TX" is functioning. Therefore, the resolution LED is not displayed.

The resolution for when "FAX TX" is functioning can be changed with user function No. 36 "FLATBED TX Mode" setting. When "FINE" is selected, the resolution is set to 300 x 300dpi, and the resolution is set to 8 x 7.7 line/mm when "STD" is selected.

However, the resolution may be changed at 8x3.85 line/mm if the connected device does not comply with the resolution.

### 3.4 The density cannot be changed.

> The "No" key of OKIFAX 4580 that indicates the density is invalid.

The "No" key (LIGHT/NORMAL/DARK) that indicates the density level is invalid while "FAX TX" is functioning. Therefore, the density LED is not displayed.

Adjust the density when "FAX TX" is functioning by pressing the "Lighter/Darker" button on DS310F.

### 3.5 To shorten the time for communication.

> Is user function No. 36 "FLATBED TX MODE" in OKIFAX 4580 set to "FINE"?

Transmission is made by decreasing the resolution when user function No. 36 "FLATBED TX MODE" in OKIFAX 4580 is set to "STD". This decreases the amount of transmitted data by approximately two-fifths, thus shortening communication time. The quality of the transmitted image, however, will drop.

> Is user function No. 38 "HALF SIZE SCAN" in OKIFAX 4580 set to "OFF"?

When the original set in DS310F is smaller than the original size set for "Paper Size", or if you wish to send only the top section of an original, set user function No. 38 "HALF SIZE SCAN" in OKIFAX 4580 to ON so that only the top section read and transmitted.

This decreases the amount of transmitted data by a maximum of approximately one-half, thus shortening communication time.

### 3.6 Can transmission be made right after an original is read in DS310F?

> Is user function No. 37 "FLATBED FX T.O." in OKIFAX 4580 set to "OFF"?

If only one original is constantly subject to FAX TX, the "FAX TX" operation can be started right after receiving image data for one page from DS310F by setting user function No. 37 "FLATBED FX T.O." in OKIFAX 4580 to "OFF"

However, two or more originals cannot be sent in one transmission when this function is set to OFF.

### 3.7 The "copy count" function is not applied in the "FAX TX" function.

> The "copy count" function set in DS310F is neglected while "FAX TX" is functioning.

As two or more same originals do not have to be sent to a same destination with the "FAX TX" function, "copy count" will always be considered as one page even when set to two pages or more.



### 3.8 Image quality when using “FAX TX”.

> Refer to the following sections.

- 2.1 Nothing is printed as a result of copying or only a few dots are printed.
- 2.2 The copied image is dark, or the background color or the rear side of the original is printed.
- 2.3 The copied image is larger or smaller than the original.
- 2.4 The copied image is shrunk or only half of the image is printed in the vertical direction.
- 2.5 The copied image is deviated, skewed, or certain portions are not printed.
- 2.6 To increase the quality of a printed image.
- 3.3 The resolution cannot be changed.

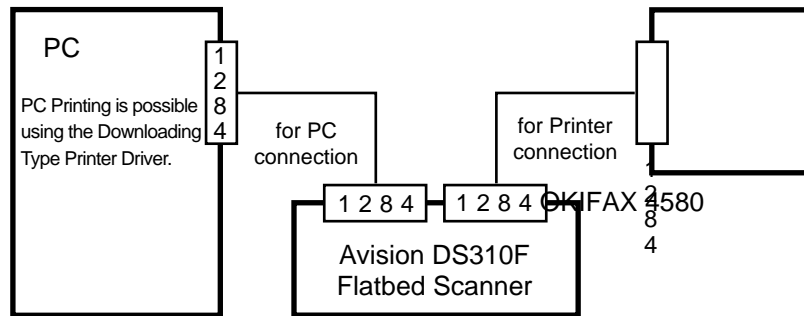
### 3.9 The “Stop” key on OKIFAX 4580 was pressed to discontinue the FAX TX operation while reading from DS310F, however, the indication remained at “STOPPED”.

> Refer to the following section.

- 2.8 The “Stop” key for OKIFAX 4580 was pressed to discontinue the copy operation while reading from DS310F, however, the indication remained at “STOPPED”.

#### 4. DOWNLOADING PRINT

This section describes the function for printing from a PC when OKIFAX 4580 and the PC are connected via DS310F as shown below. In reference to a printer driver, the only Downloading Type is operational; a MFPI Driver is not operational.



It is assumed that a Downloading Type Printer Driver is installed normally.

#### 4.1 Printing from the PC is disabled or the print result is not normal.

> Is the original being read by DS310F?

If printing is attempted from the PC when data is being read by DS310F, print data from the PC and reading image data from DS310F will be mixed, therefore, garbled characters will be printed. Start printing from the PC after data has been read from DS310F and when the copying or "FAX TX" operation is completed.

> Is Status Monitor in a MFPI Driver running?

Status Monitor in a MFPI Driver is not necessary to use a Download Type Printer Driver. If Status Monitor is running, printing data from the PC may crash. As a result, the data may not be printed or come out garbled. For that reason, be sure to terminate Status Monitor.

#### 5. Other items

#### 5.1 Can an optional ADF be set in DS310F?

An ADF set in DS310F cannot be distinguished by OKIFAX 4580. Therefore, an ADF cannot be used when connecting with OKIFAX 4580. Operations cannot be guaranteed when setting an ADF and using the copy or "FAX TX" function.

#### 5.2 A scanning function from DS310F to a PC

Refer to the DS310F Manual for detailed functions, operational procedures, etc. Be minded that, as described in Clause 4.1, read data may crash if Status Monitor in a MFPI Driver is running. For that reason, be sure to terminate Status Monitor.