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OKIOFFICE 44

Service Manual

59276801

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Section 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)
 - (3) Compatibility
 - ITU-T Group 3 facsimile transceiver
 - (4) Document width
 - Max. 216 mm (8.5 inches [North American Letter])
 - Min. 148 mm (5.83 inches [ISO A5 size])
 - (5) Effective reading width
 - Max. 215 mm (8.46 inches)
 - (6) Scanning length
 - 128 mm to 356 mm (5.06 inches to 14 inches)
 - (Length setting: Infinite is also available.)
 - (7) Automatic document feeder (ADF)
 - 20 sheets for OKIOFFICE44 North American Letter/A4-size: 20-1b bond
 - 15 sheets (North American Letter/A4-size: 13 to 28-1b bond)
 - (8) Recording paper or sheet
 - First tray: North American Letter/Legal/A4-size plain paper cut
OKIOFFICE 44 100 sheets capacity (20-1b bond*)
 - Manual loading feeder: Transparency for overhead projector, applicable.
OKIOFFICE 44 Sheet size: Letter/Legal/A4-size
- * Recommended paper
- (9) Printable width
For OKIOFFICE44
 - North American: 203.2 mm (8 inches) / 203.2 mm (8 inches) for assured quality
 - North American Legal: 203.2 mm (8 inches) / 203.2 mm (8 inches) for assured quality
 - ISO A4: 203.2 mm (8 inches) / 197.3 mm (7.77 inches) for assured quality
 - (10) Printable length
 - NA Letter: 273.4 mm (10.76 inches) / 266.7 mm (10.49 inches) for assured quality
 - NA Legal: 349.6 mm (13.76 inches) / 342.9 mm (13.49 inches) for assured quality
 - ISO A4: 291 mm (11.46 inches) / 284.3 mm (11.19 inches) for assured quality

- (11) Copy stacker
- Maximum 30 sheets (20 lb. bond *)
 - *: Recommended paper
- (12) Scanning resolution
- a) Horizontal
- 8 pels/mm
- b) Vertical
- | | | |
|--------------------|-----------|--------------|
| Transmission mode: | STD | 3.85 line/mm |
| | FINE | 7.7 line/mm |
| | EX. FINE | 15.4 line/mm |
| COPY mode: | FINE | 7.7 line/mm |
| | EX. FINE) | 15.4 line/mm |
- (13) Scanning method
- 1728 bits contact image sensor
- (14) Recording resolution
- a) Horizontal:
- 300 dots/inch
- b) Vertical:
- | | |
|-----------|---|
| Variable: | Automatically adjusted to the paper length. |
| | STD mode (3.85 to 5.06 line/mm) |
| | FINE mode (7.7 to 10.13 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 bit) or 216.7 mm (2560 bit)
- (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
- (17) Print speed
- Max. 4 sheets per minute
- (18) Pre-heating time
- Approx. 30 sec. (Standby to print)

- (19) Coding scheme
- Modified Huffman (MH)
 - Modified READ (MR)
 - Modified Modified READ (MMR)
- (20) Modem (Rev. 2)
- ITU-T Rec. V.29: 9600/7200 bps
 - ITU-T Rec. V.27 ter: 4800/2400 bps
 - ITU-T Rec. V.21 channel 2: 300 bps
 - ITU-T Rec. V.17: 14400/12000 bps
 - ITU-T Rec. V.33: 14400/12000 bps
- (21) Transmission speed
- 6 sec. per sheet of ITU-T No. 1 sample document
- Note:** This is Phase C time at 3.85 line/mm and 28800 bps for 3 sec. and 14400 bps for 6 sec. in MMR code transmission.
- (22) Protocol
- ITU-T Rec. T.30
 - OKI special protocols: High-speed protocol
- (23) Error correction mode (ECM)
- (24) Communication mode
- Half duplex
- (25) Memory capacity
- Basic model: 256k byte
 - Optional memory: 1M byte memory board can be added.
- (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
- (28) MFP (Multi- Function Peripheral) function
- The optional board (CTR board) provides the MFP functions
 - PC Printer Function
 - PC Scanner Function
 - PC FaxModem Function
 - Location Programing Function

1.2 General User's Function

- (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
 - PC Mode
- (3) Dual Access
Not available for the OKIOFFICE 44
- (4) Voice request
- (5) Automatic redial
- (6) Last number redial (Manual redial)
- (7) Local copy including multiple copies
 - Maximum 50 copies of document
- (8) Sender identification (Sender ID)
- (9) Personal identification (Personal ID)
- (10) Polling transmission
- (11) Polling reception
- (12) Acoustic line monitor
- (13) Telephone handset (option)
- (14) Automatic alternate selecting call (FAX No. + FAX No. can be registered in one-touch keys).
- (15) Delayed transmission (Maximum length of delay 3 days)
 - Delayed broadcast
 - Delayed transmission
 - 1 specified time
- (16) Relay broadcast initiate
- (17) Confidential message transmission (Hopper 1 station)
- (18) Confidential message reception
Not Available for the OKIOFFICE 44
- (19) PHOTO mode
 - 16 scale gradations (Dither Method)

- (20) G3 sequential broadcast (Memory)
 - Broadcast mode
56 stations at maximum
 - Delayed broadcast mode
- (21) No paper/no toner reception
- (22) Memory-only reception
Not available for the OKIOFFICE 44
- (23) Distinguishing Text from picture
- (24) Page re-transmission (Only in case of memory TX mode)
Retransmits in page units
- (25) Reduction printing (Reduction rate is from 100% to 75%.) (Legal to Letter)
- (26) Smoothing printing (In case of 3.85 ℓ /mm → 7.7 ℓ /mm)
- (27) Programmed key operation (“F” key + “OT” key)
- (28) Auto dialing
 - One-touch dialing 10 locations, maximum of 32 digits each location
 - Two-digit automatic dialing 45 locations, maximum of 32 digits each location
 - Keypad dialing
 - Chain dialing
 - Mixed dialing
 - Group dialing 5 dialing groups, maximum of 55 locations each group
- (29) Realtime dialing
(In case of optional handset is installed or Hook key)
- (30) Automatic pause signal insertion
- (31) Manual feeder local copy
- (32) Telephone directory (Alpha search) dialing
- (33) TEL/FAX automatic switching
- (34) Time and date printing
- (35) Closed users group (Direct mail rejection)
- (36) Transmission contrast and resolution control
- (37) Key touch tone
- (38) Printer counter display (For drum, toner, total print)
- (39) Total page counter (Scan)
- (40) Quick scanning
Not available for the OKIOFFICE 44

- (41) Date and clock adjustment
- (42) PC interface
 - Standard
- (43) Language selection
 - 2 languages (LCD and Reports)
 - English / Spanish
 - English / French
- (42) Fax forwarding
 - Not available for the OKIOFFICE 44
- (44) Reports
 - Activity report
 - Protocol report (Service man setting)
 - Message confirmation report (Single address or multiple addresses)
 - Broad cast entry report (Broadcast)
 - Transmission error report
 - Confidential reception report
 - Configuration report
 - Telephone directory
 - Power outage report

1.3 General Maintenance Functions

- (1) Self-diagnosis
 - CPU ROM/RAM check
 - FLASH (/MASK) memory check (Program, Language, Default)
 - RAM check
 - RAM check (MEMORY board: option)
 - PC-IF board (parallel) check
 - Print test
- (2) Sensor calibration (Adjustment of scanning level)
- (3) LED test
- (4) Tone send test
- (5) Multi-frequency (MF) send test
- (6) High-speed modem send test
- (7) High-speed modem receive test
- (8) Tone (TEL/FAX) test
- (9) Remote diagnosis
- (10) System reset
- (11) Service default report (Machine setting for service engineer)

1.4 General Appearance

Figure 1.4.1 shows the general appearance of the OKIOFFICE 44

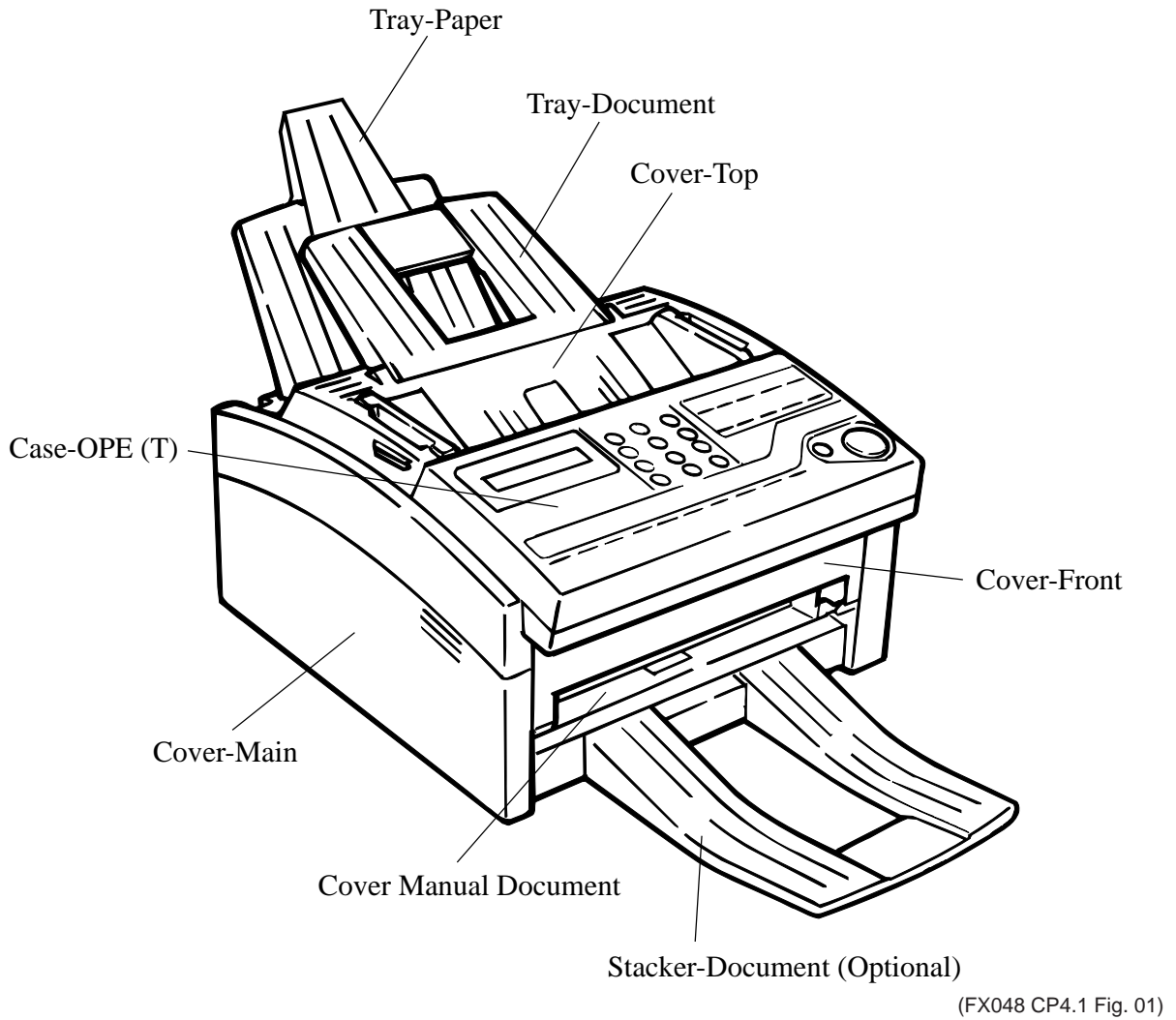


Figure 1.4.1 General Appearance of OKIOFFICE44

Table 1.5.1 (2/11) Basic Performance Specifications

No.	Item	Specifications																	
4	Effective reading width	<table border="1"> <thead> <tr> <th data-bbox="313 264 548 342">Document Width</th> <th data-bbox="548 264 818 342">Communication Mode/Paper width</th> <th data-bbox="818 264 1177 342">Effective reading width</th> <th data-bbox="1177 264 1365 342">Copy size</th> </tr> </thead> <tbody> <tr> <td data-bbox="313 342 548 531">ISO A4 210 mm 8.27 inches</td> <td data-bbox="548 342 818 531">G3/A4</td> <td data-bbox="818 342 1177 531">TX: 208 mm 8.19 inches Local Copy: 200 mm 7.87 inches</td> <td data-bbox="1177 342 1365 531">A4</td> </tr> <tr> <td data-bbox="313 531 548 720">Letter 216 mm 8.5 inches</td> <td data-bbox="548 531 818 720">G3/A4</td> <td data-bbox="818 531 1177 720">TX: 215 mm 8.46 inches Local Copy: 200 mm 7.87 inches</td> <td data-bbox="1177 531 1365 720">Letter</td> </tr> <tr> <td data-bbox="313 720 548 909">Legal 216 mm 8.5 inches</td> <td data-bbox="548 720 818 909">G3/A4</td> <td data-bbox="818 720 1177 909">TX: 215 mm 8.46 inches Local Copy: 200 mm 7.87 inches</td> <td data-bbox="1177 720 1365 909">Legal</td> </tr> </tbody> </table>		Document Width	Communication Mode/Paper width	Effective reading width	Copy size	ISO A4 210 mm 8.27 inches	G3/A4	TX: 208 mm 8.19 inches Local Copy: 200 mm 7.87 inches	A4	Letter 216 mm 8.5 inches	G3/A4	TX: 215 mm 8.46 inches Local Copy: 200 mm 7.87 inches	Letter	Legal 216 mm 8.5 inches	G3/A4	TX: 215 mm 8.46 inches Local Copy: 200 mm 7.87 inches	Legal
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<p>Note Local copy: Printable reading width in local copy mode</p>																			
5	Automatic document feeder (ADF)	<p>Up to 297 mm (11.69 inches) in length. Maximum of 20 documents, Letter or A4 (20-1b) Maximum of 15 documents: Letter or A4 (13-28lb bond paper) Documents shall be placed facedown on ADF stacker. The first sheet will be fed first in the feeder and will exit facedown in the document stacker.</p>																	
6	Document skew	<p>Max. 2.6 mm (.102 inches) skew over a document of A4 length. For a document longer than A4 length, occurrence of skew exceeding 2.6 mm over any A4 length is 0.5% or less.</p>																	
7	Document jam detection	<p>1) Transmission will stop and line disconnection will occur when the end of a document is not detected within 356 mm (14 inches) after scanning begins (except for the long document scanning. Technical Function 11)</p> <p>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.</p> <p>Note: 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 1.5.1 (3/11) Basic Performance Specifications

No.	Item	Specifications
9	Recording paper or sheet	<p>NOTE: For best results, use Okidata recommended papers Xerox 4200 (20 lb/base weight paper) Paper approved for xerographic (copier/laser) printing process</p> <p>Automatic Feed</p> <p>1) Type: Plain paper cut (Bond paper)</p> <p>2) Size: A4: 210 x 297 millimeters 8.27 x 11.69 inches Letter: 215.9 x 279.4 millimeters 8.5 x 11 inches Legal: 215.9 x 355.6 millimeters 8.5 x 14 inches</p> <p>3) Weight: 16 lbs to 24 lbs/base weight Base weight is defined as the weight of 500 sheets of 431.8 mm (17 inch) by 558.8 mm (22 inch).</p> <p>4) Thickness: 0.08 mm to 0.12 mm .0031 inches to .0047 inches</p> <p>5) Condition: New paper</p> <p>Manual Feed</p> <p><i>Note:</i> One single sheet only should be loaded on the manual loading feeder for any one occasion.</p> <p>1) Type: Plain paper, transparency for overhead projector, colored paper, printed paper Must meet specifications for xerographic printing process</p> <p>2) Size: A4: 210 x 297 millimeters 8.27 x 11.69 inches Letter: 215.9 x 279.4 millimeters 8.5 x 11 inches Legal: 215.9 x 355.6 millimeters 8.5 x 14 inches</p> <p>3) Weight: 16 lbs to 24 lbs/base weight Base weight is defined as the weight of 500 sheets of 431.8 mm (17 inch) by 558.8 mm (22 inch).</p> <p>4) Thickness: 0.08 mm to 0.12 mm .0031 inches to .0047 inches</p>
10	Recording paper cassette	100 sheets/tray (20 lb.)

Table 1.5.1 (4/11) Basic Performance Specifications

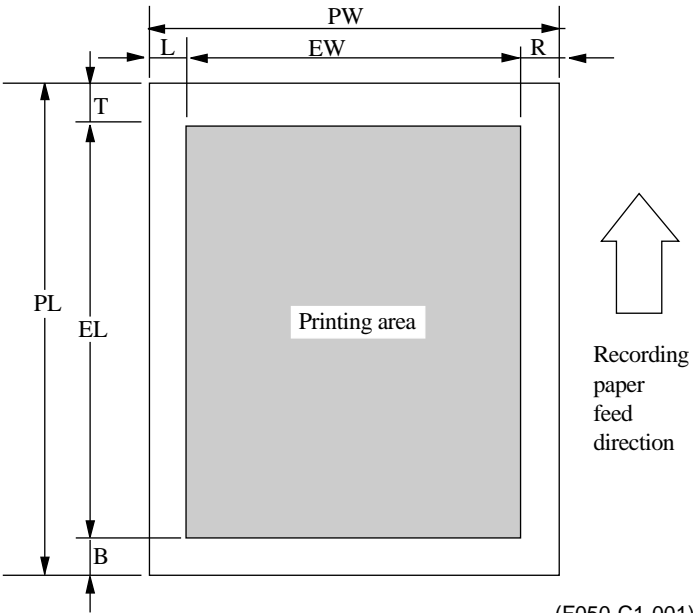
No.	Item	Specifications																																																																																									
11	<p>Effective recording area</p> <p>PL = Page Length PW = Page Width EL = Effective Length EW = Effective Width T = Top Margin B = Bottom Margin L = Left Margin R = Right Margin</p> <p><i>Note:</i> These tables do not include vertical and horizontal addressing deviations (+ or -2 mm) of recording paper.</p>	 <p style="text-align: right;">(F050-C1-001)</p>																																																																																									
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Table 1.5.1 (5/11) Basic Performance Specifications

No.	Item	Specifications
12	Copy stacking	<p>The fax can discharge printed copies and stack them faceup. Maximum sheets on the copy staker: 30*</p> <p><i>Note*</i>: Oki Data recommended paper</p>
13	Scanning resolution	<p>Horizontal:</p> <ul style="list-style-type: none"> • 8 pel/mm <p>Vertical:</p> <p>Transmission mode:</p> <ul style="list-style-type: none"> • STD 3.85 line/mm FINE 7.7 line/mm EX.FINE 15.4 line/mm <p>COPY mode:</p> <p>FINE: 7.7 line/mm</p> <p>EXFINE 15.4 line/mm</p>
14	Image scanning method	Letter size (1728-bit) contact image sensor
15	Contrast control	<p>1) Automatic background sensing A continuous document background of 0.3 OD (optical density) or less will be transmitted as white.</p> <p>2) The LIGHT and DARK contrasts will automatically be adjusted to improve image quality.</p>
16	Recording resolution	<p>Horizontal:</p> <ul style="list-style-type: none"> • 300 dot/inch <p>Vertical:</p> <ul style="list-style-type: none"> • STD: 3.85 line/mm FINE: 7.7 line/mm
17	Recording system	<p>Electro-photographic printing</p> <p>1) 211.3mm (2496 bit) or 216.7mm (2560 bit) LED print head</p>
18	Skew of recording paper	Maximum allowable skew is + or - 1 mm over an advance of 100 mm. (.03937 inches over 3.937 inches)
19	Copy darkness	<p>1) Black image: Greater than 1.0 OD (Optical density)</p> <p>2) White background: Not greater than 0.2 OD (Optical density)</p>
20	Copy uniformity	<p>Printed copies will exhibit a uniform density of the printed and background area:</p> <p>1) From edge to edge: 25% unit</p> <p>2) From copy to the next copy: 30% unit</p>

Table 1.5.1 (6/11) Basic Performance Specifications

No.	Item	Specifications
21	Recording paper running out	Detected during print operation only. Error Message: PAPER OUT / JAM CONFIRM AND“STOP”
22	Minimum scan line time for receiving	0 ms, when receiving from an Oki Data facsimile. 5 ms at 7.7 line/mm and 10 ms at 3.85 line/mm when receiving from a non-Oki Data facsimile.
23	Coding scheme	1) One-dimensional coding scheme: Modified Huffman (MH) 2) Two-dimensional coding scheme: Modified READ (MR) Modified modified READ (MMR)
24	MODEM 1) High-speed MODEM 2) Low-speed MODEM	a) ITU-T Rec. V.29 (9600/7200 bps) b) ITU-T Rec. V.27 ter (4800/2400 bps) c) ITU-T Rec. V.17 (14400/12000/9600/7200 bps) d) ITU-T Rec. V.33 (14400/12000 bps) ITU-T Rec. V.21 channel 2 (300 bps)

Table 1.5.1 (7/11) Basic Performance Specifications

No.	Item	Specifications																																										
25	Fallback	<p>Automatic fallback will occur according to the following sequence by FTT, RTN or PPR.</p> <table border="1" data-bbox="365 336 1437 651"> <thead> <tr> <th data-bbox="365 336 532 409">Fallback rank</th> <th data-bbox="532 336 699 409">Transmission speed</th> <th data-bbox="699 336 867 409">Activated by FTT (Times)</th> <th data-bbox="867 336 1034 409">Activated by RTN (Times)</th> <th data-bbox="1034 336 1201 409">Activated by PPR (Times)</th> <th data-bbox="1201 336 1437 409">Protocol</th> </tr> </thead> <tbody> <tr> <td data-bbox="365 409 532 451">1st</td> <td data-bbox="532 409 699 451">14400 bps</td> <td data-bbox="699 409 867 451">1</td> <td data-bbox="867 409 1034 451">1</td> <td data-bbox="1034 409 1201 451">4 (Note 1)</td> <td data-bbox="1201 409 1437 451">ITU-T V.17 (V.33)</td> </tr> <tr> <td data-bbox="365 451 532 493">2nd</td> <td data-bbox="532 451 699 493">12000 bps</td> <td data-bbox="699 451 867 493">1</td> <td data-bbox="867 451 1034 493">1</td> <td data-bbox="1034 451 1201 493">4 (Note 1)</td> <td data-bbox="1201 451 1437 493">ITU-T V.17 (V.33)</td> </tr> <tr> <td data-bbox="365 493 532 535">3rd</td> <td data-bbox="532 493 699 535">9600 bps</td> <td data-bbox="699 493 867 535">1</td> <td data-bbox="867 493 1034 535">1</td> <td data-bbox="1034 493 1201 535">4 (Note 1)</td> <td data-bbox="1201 493 1437 535">ITU-T V.17 (V.29)</td> </tr> <tr> <td data-bbox="365 535 532 577">4th</td> <td data-bbox="532 535 699 577">7200 bps</td> <td data-bbox="699 535 867 577">1</td> <td data-bbox="867 535 1034 577">1</td> <td data-bbox="1034 535 1201 577">4 (Note 1)</td> <td data-bbox="1201 535 1437 577">ITU-T V.17 (V.29)</td> </tr> <tr> <td data-bbox="365 577 532 619">5th</td> <td data-bbox="532 577 699 619">4800 bps</td> <td data-bbox="699 577 867 619">2</td> <td data-bbox="867 577 1034 619">1</td> <td data-bbox="1034 577 1201 619">4 (Note 1)</td> <td data-bbox="1201 577 1437 619">ITU-T V.27 ter.</td> </tr> <tr> <td data-bbox="365 619 532 651">6th</td> <td data-bbox="532 619 699 651">2400 bps</td> <td data-bbox="699 619 867 651">2</td> <td data-bbox="867 619 1034 651">1</td> <td data-bbox="1034 619 1201 651">4 (Note 1)</td> <td data-bbox="1201 619 1437 651">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.33)	2nd	12000 bps	1	1	4 (Note 1)	ITU-T V.17 (V.33)	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.
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26	Protocol	<p>When the last trial fails, the transmitting station sends out a DCN signal to the remote station for disconnection.</p> <p>Note: Continuous PPRs for the same partial page within each fallback rank.</p> <p>1) ITU-T Rec. T.30 2) Oki Data special protocol High-speed protocol The T.30 protocol signal from the transmitting station is sent at message transmission speed instead of 300 bps.</p> <p>Note: In high-speed protocol, 28.8 K-bps are not supported.</p>																																										
27	Transmission time	<p>6 sec. /ITU-T No. 1 sample document</p> <p>Note: This is Phase C time at 3.85 line/mm and 14400 bps for 6 sec. in MMR code transmission.</p>																																										
28	Error correction	<p>ITU-T Error correction mode (ECM) Oki Data ITU-T ECM</p>																																										
29	Communication mode	<p>Half-duplex</p>																																										
30	Ringing signal detection sensitivity 1) Voltage range 2) Frequency range 3) Ring response time	<p>25 to 150 V r.m.s. Inoperative below 10 V</p> <p>20 to 68 Hz</p> <p>One-ringing signal or 5 to 30 seconds. (Selectable in 5 sec. steps. F + OT9 + ← + 11)</p>																																										

Table 1.5.1 (8/11) Basic Performance Specifications

No.	Item	Specifications																
31	Image memory	<table border="1"> <thead> <tr> <th></th> <th>Basic model</th> <th>Optional memory</th> </tr> </thead> <tbody> <tr> <td>OKIOFFICE44</td> <td>256K-byte</td> <td>1M-byte</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Basic model	Optional memory	OKIOFFICE44	256K-byte	1M-byte							
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2M-byte	N/A																	
<p>Note: ITU-T No.1 sample document is used to count the number of sheets.</p>																		
<p>Back-up time on electrical interruption:</p>																		
<p>Note: OKIOFFICE44 does not back up the message received in memory for the power failure.</p>																		
32	Telephone handset (option)	<p>General telephone function is available while the power is on.</p>																
<p>Note: In the fax special versions, general telephone is available even when the power is off.</p>																		
34	Overheat protection	<p>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”.</p>																
<p>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.</p>																		
35	PC interface applications (Option)	<p>The following four modes are supported:</p>																
<ol style="list-style-type: none"> 1) PC local printer function 2) PC scanner function 3) PC FaxModem function 4) Location Programming function 																		
<p>Note: This function is standard for OKIOFFICE44.</p>																		

Table 1.5.1 (9/11) Basic Performance Specifications

No.	Item	Specifications																																	
36	Power supply unit and power consumption of the machine Power consumption of the machine (Typical power)	<table border="1" data-bbox="399 516 1435 936"> <thead> <tr> <th data-bbox="399 516 639 600"></th> <th data-bbox="639 516 863 600">OKIOFFICE44</th> <th data-bbox="863 516 1057 600"></th> <th data-bbox="1057 516 1245 600"></th> <th data-bbox="1245 516 1435 600"></th> </tr> </thead> <tbody> <tr> <td data-bbox="399 600 639 674">Transmit</td> <td data-bbox="639 600 863 674">19W</td> <td data-bbox="863 600 1057 674"></td> <td data-bbox="1057 600 1245 674"></td> <td data-bbox="1245 600 1435 674"></td> </tr> <tr> <td data-bbox="399 674 639 737">Receive</td> <td data-bbox="639 674 863 737">115W</td> <td data-bbox="863 674 1057 737"></td> <td data-bbox="1057 674 1245 737"></td> <td data-bbox="1245 674 1435 737"></td> </tr> <tr> <td data-bbox="399 737 639 800">Local copy</td> <td data-bbox="639 737 863 800">150W</td> <td data-bbox="863 737 1057 800"></td> <td data-bbox="1057 737 1245 800"></td> <td data-bbox="1245 737 1435 800"></td> </tr> <tr> <td data-bbox="399 800 639 863">Standby</td> <td data-bbox="639 800 863 863">10W</td> <td data-bbox="863 800 1057 863"></td> <td data-bbox="1057 800 1245 863"></td> <td data-bbox="1245 800 1435 863"></td> </tr> <tr> <td data-bbox="399 863 639 936"></td> <td data-bbox="639 863 863 936" style="text-align: center;">/</td> <td data-bbox="863 863 1057 936"></td> <td data-bbox="1057 863 1245 936"></td> <td data-bbox="1245 863 1435 936"></td> </tr> </tbody> </table> <p data-bbox="516 953 1170 1020"> ** Power save mode is automatic for the OKIOFFICE 44. It cannot be enabled or disabled by the user. </p>					OKIOFFICE44				Transmit	19W				Receive	115W				Local copy	150W				Standby	10W					/			
	OKIOFFICE44																																		
Transmit	19W																																		
Receive	115W																																		
Local copy	150W																																		
Standby	10W																																		
	/																																		

Table 1.5.1 (10/11) Basic Performance Specifications

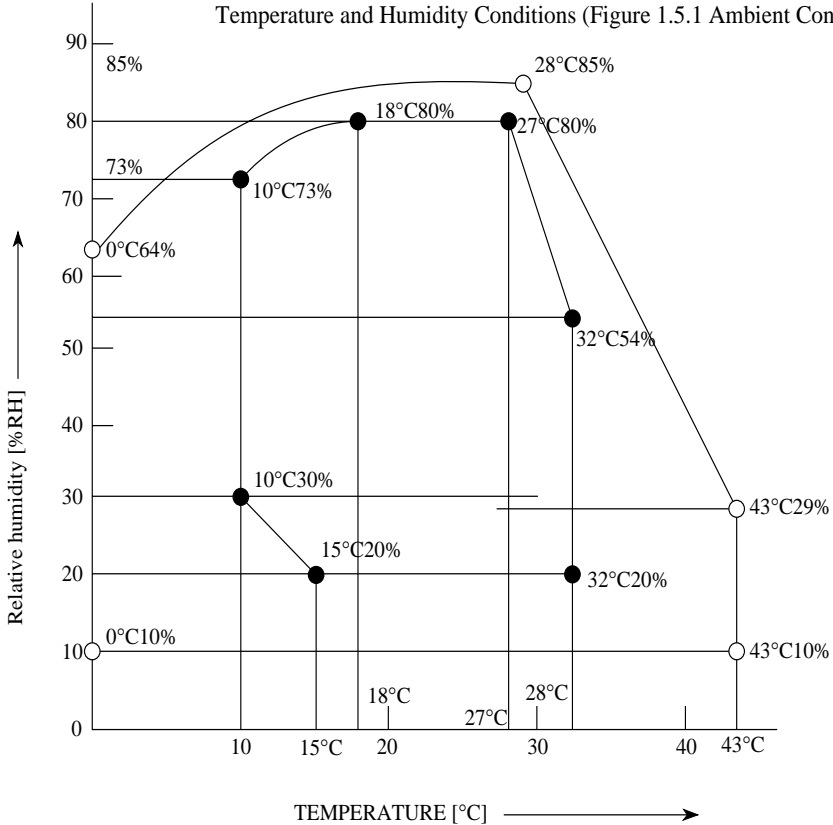
No.	Item	Specifications
37	Ambient condition 1) Operating condition 2) Storage condition	See Figure 1.5.1 See Figure 1.5.1 Figure 1.5.1  <p style="text-align: center;">Temperature and Humidity Conditions (Figure 1.5.1 Ambient Conditions)</p> <p style="text-align: center;">Area enclosed by lines with ● : Range where printing is guaranteed. Area enclosed by lines with ○ : Range for storage without power supply.</p> <p>(Note) The curve connecting 28°C, 85% and 0°C, 64% is the condensation curve.</p>

Table 1.5.1 (11/11) Basic Performance Specifications

No.	Item	Specifications
38	Dimension (Main body)	1) Width: Approx. 312 mm (12.28 inches) 2) Depth: Approx. 383 mm (15.08 inches) 3) Height: Approx. 190 mm (7.48 inches)
39	Weight (Main body)	Approx. 8 kg (17.6 lbs) Excluding optional units, recording paper and packing materials.
40	Attachments (to the main body)	1) AC power cord x 1 2) I/D unit x 1 (Already installed) 3) Toner cartridge x 1 4) Telephone handset x 1 (option) 5) Curled cord and Telephone cord for (4) x 1 (option) 6) Document stacker x 1 7) Line cord x 1 8) One touch sheet x 1 (Already installed) 9) User's guide x 1 10) JetSuite Software User Guide x 1 11) Quick Start Guide x 1 12) WordScan OCR Manual x 1

1.6 Reports and Lists

Table 1.6.1 shows Reports and Lists Specifications.

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

Table 1.6.1 (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. This is an FCC Requirement in the United States * (Outside only)
3	Transmitting subscriber identification (TSI) printing	Received TSI can be printed at the top of the received page. * TF + 05 (To enable or disable this function)
4	Cancel report (Power outage report)	The fax can automatically print out a power-outage report when the power off condition occurs.
5	Activity report	The fax can print out an activity report manually, or automatically, when 30 communications are recorded. * 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. (1) When COPY key is pressed after a single location call, this report can be printed. (Manual printout) * FP + 01 (To enable or disable automatic printing)
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. * COPY key (Manual printout): Pressed after a broadcast. * REPORT PRINTOUT + 2 (Manual printout) * FP +02 (To enable or disable automatic printing)

Table 1.6.1 (2/2) Reports and Lists Specifications

No.	Item	Specifications
9	Confidential reception report	The fax can print out this report automatically on completion of a confidential reception.
10	Telephone directory	This directory is printed manually. (REPORT PRINTING +3)
11	Configuration report	This report is printed manually. (REPORT PRINTING +4)

Call-back Message Format: (Example)

(1)	07/01/96	09:24	(2)	OKI SHIBAURA → OKI HONJO	(3)	NO.002
(4)	PLEASE CALL BACK					
(5)	OKI SHIBAURA					
(6)	=103 5476 1234					

(F050-C1-002)

- (1) Date and time
- (2) Sender ID
- (3) CSI/Personal ID
- (4) Letters "PLEASE CALL BACK"
- (5) Sender ID
- (6) Sender's call back telephone number

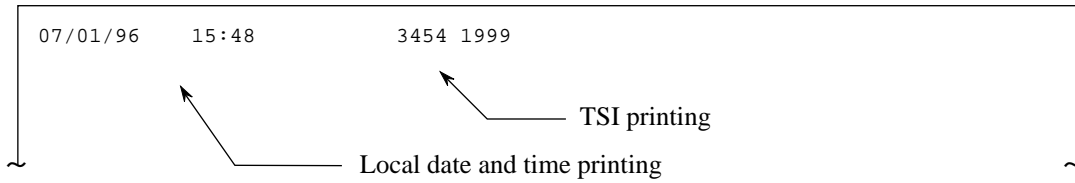
Sender ID Format: (Example)

(1)	07/01/96	15:06	(2)	OKI ABC 1234 → 3454 2000	(3)		(4)	NO.021	(5)	01
-----	----------	-------	-----	--------------------------	-----	--	-----	--------	-----	----

- (1) Date and Time
- (2) Sender ID
- (3) Receiver's CSI/Personal ID
- (4) Session number
- (5) Page number

(F050-C1-003)

TSI Printing and Local Date and Time Printing Format: (Example)



(F050-C1-004)

Note: TSI printing (TF+05)
Local date and time printing (TF+04)

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Cancel Report Format: (Example)

POWER OUTAGE REPORT

05/19/96 17:05
ID=OKI

DATE	TIME	S,R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
05/17	10:10		0485-88-3385			9080
05/17	10:30		ODS TAKASAKI		03	0000
05/17	12:05	01'20"	OKI FAX	BOX=01	03	OK 0000
05/17	13:00	00'20"	03-5476-4300	CALLED	01	OK 0000
05/17	15:40		034567092222	FWD-T	05	
05/18	10:50	01'20"	0495-22-5400	CALLED	03	OK 0000
05/18	15:00			B.C.	01	

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

(1) Message Confirmation Report Format: (Example)

ACTIVITY REPORT

(2) 05/19/96 17:05
(3) ID=OKI

(4) TOTAL TIME CALLING=08:22' CALLED=17:30'

DATE (5)	TIME (6)	S,R-TIME (7)	DISTANT STATION ID (8)	MODE (9)	PAGES (10)	RESULT (11)	(12)
05/17	10:00	01'20"	OKI FAX	CALLING	02	OK	0000
05/17	10:10	01'00"	0485 88 3385	CALLING	00	STOP	9080
05/17	10:30	00'20"	ODS TAKASAKI	CALLING	00	NO	90C1
05/17	12:05	01'20"	OKI FAX	CALLING	03	OK	0000
05/17	13:00	00'20"	03 5476 4300	CALLING	01	OK	0000
05/17	15:40	03'25"	ODS TAKASAKI	BOX=01	03	OK	0000 *1
05/17	19:00	00'00"	OKI FAX		01	OK	0000 *2
05/18	10:10	02'00"	OKI SHIBAURA	CALLED	05	NO	908E
05/18	10:22	00'12"	0495 22 5400	CALLING	00	STOP	9080
05/18	10:50	01'20"	0495 22 5400	CALLED	03	NO	9090
05/18	12:05	00'20"	OKI FAX	CALLING	01	STOP	9080
05/18	15:00	01'30"		CALLED	03	OK	0000 *3
05/18	15:30	00'20"		CALLING	01	OK	0000
05/18	17:05	05'20"		B.C.		COMP.	60A0 *4
05/18	19:04	00'20"	03 5476 4300	CALLING	00	STOP	9080
05/19	09:00	01'11"		CALLING	02	OK	0000
05/19	10:20	00'20"	03 5476 4300	CALLING	02	STOP	9080
05/19	10:35	02'23"		BOX=01	02	OK	0000 *1
05/19	10:50	00'20"	ODS TAKASAKI	CALLED	01	OK	0000
05/19	11:03	00'00"	OKI FAX	CALLING	00	STOP	9080
05/19	13:00	00'24"	03 5476 4300		01	NO	0000 *5
05/19	16:00	03'25"	ODS TAKASAKI	FWD-R	03	OK	0000 *6
05/19	16:04	03'30"	OKIFAX	FWD-T	03	OK	0000 *7

*1: Confidential reception
*2: Manual TX
*3: Memory reception
*4: Broadcast TX
*5: Manual reception
*6: Reception for forwarding
*7: Forwarding

- (1) Title of the report
- (2) Date and time when the report was printed
- (3) Sender ID
- (4) Total CALLING and CALLED time
- (5) Date of transmission or reception
- (6) Time when the communication started
- (7) Time span of the fax communication.
- (8) Identification of the remote station
 Personal ID/Location ID/TSI/CSI/Dial number or space
- (9) Communication mode: (Rev.2)
 - CALLING (Transmission)
 - CALLED (Reception NG or MEMORY RX)
 - B. C. (Broadcast)
 - BOX=XX (Confidential reception)
 - FWD-R (Fax Forwarding RX)
 - FWD-T (Fax Forwarding TX)
- (10) Number of transmitted pages or received pages
- (11) Result code
 OK (Note1)/NO/STOP (Note 2)/BUSY/PAPER (Out of recording paper)/S_JAM (Document jam)/R_JAM (Recording paper jam)/COVER/COMP (Completion of a broadcast)/PUNIT (Printer Alarm)/CANCL (Confidential reception T.O.)
 - Note 1:** The following cases are included:
 - Unmatched handshaking to the received NSF.
 - Unmatched password to the received NSC in the polling transmission mode.
 - Note 2:** The following cases are included:
 - The STOP key is pressed.
 - The memory cancellation operation removes the message from the active memory files.
- (12) Service code

Message Confirmation Report Format (1/2): (Example)

(1) MESSAGE CONFIRMATION									
(4) DATE	(5) S.R-TIME	(6) DISTANT STATION ID	(7) MODE	(8) PAGES	(9) RESULT	(10)			
07/01	00'20"	OKI FAX	CALLING	02	OK	0000			

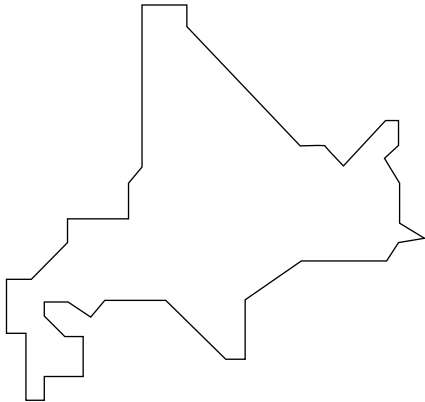
(F050-C1-008 1/2)

Message Confirmation Report Format (2/2): (Example)

(1) MESSAGE CONFIRMATION						
					(2) 07/01/96 17:05	
					(3) ID=OKI	
(4)	(5)	(6)	(7)	(8)	(9)	(10)
DATE	S.R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT	
07/01	00'20"	OKI FAX	B.C.	01	COMP	60A0
07/01/96	17:00	OKI → OKIFAX	No.022	001		

150 km

(11)



(F050-C1-008 2/2)

- (1) Title of the report
- (2) Date and time when the report was printed
- (3) Sender ID
- (4) Date of transmission or reception
- (5) Length of time for which the fax was connected to the line
- (6) Identification of the remote station
Personal ID/Location ID/TSI/CSI/Dial number
- (7) Communication mode
Reference to ACTIVITY REPORT
- (8) Number of transmitted pages or received pages
- (9) Result of the communication
Reference to ACTIVITY REPORT
- (10) Service code
- (11) Message

Broadcast Entry Report Format: (Example)

BROADCAST ENTRY REPORT

07/01/96 17:05
ID=OKI

LOCATION ID	LOCATION ID	LOCATION ID
ONE TOUCH		
1 = OT1	2 = OT2	3 = OT3
4 = OT4	5 = OT5	6 = OT6
7 = OT7	8 = OT8	9 = OT9
10 = OT10 *1	11 = OT11	12 = OT12
13 = OT13	14 = OT14	15 = OT15 *2
16 = OT16	17 = OT17	18 = OT18
19 = OT19	20 = OT20	21 = OT21
22 = OT22	23 = OT23	24 = OT24
25 = OT25	26 = OT26	27 = OT27
28 = OT28	29 = OT29	30 = OT30 *3
AUTO DIAL		
01 = AD1	02 = AD2	03 = AD3
04 = AD4	05 = AD5	06 = AD6
07 = AD7	08 = AD8	09 = AD9
10 = AD10	11 = AD11	12 = AD12
13 = AD13	14 = AD14	15 = AD15
16 = AD16	17 = AD17	18 = AD18
19 = AD19	20 = AD20	21 = AD21
22 = AD22	23 = AD23	24 = AD24
25 = AD25	26 = AD26	27 = AD27
28 = AD28	29 = AD29	30 = AD30
31 = 31	32 = 32	33 = 33
34 = 34	35 = 35	36 = 36
37 = 37	38 = 38	39 = 39
40 = 40	41 = 41	42 = 42
43 = 43	44 = 44	45 = 45 *1
46 = 46	47 = 47	48 = 48
49 = 49	50 = 50	51 = 51
52 = 52	53 = 53	54 = 54
55 = 55	56 = 56	57 = 57
58 = 58	59 = 59	60 = 60
61 = 61	62 = 62	63 = 63
64 = 64 *2	65 = 65	66 = 66
67 = 67	68 = 68	69 = 69
70 = 70	71 = 71	72 = 72
73 = 73	74 = 74	75 = 75
76 = 76	77 = 77	78 = 78
79 = 79	80 = 80	81 = 81
82 = 82	83 = 83	84 = 84
85 = 85	86 = 86	87 = 87
88 = 88	89 = 89	90 = 90
91 = 91	92 = 92	93 = 93
94 = 94	95 = 95	96 = 96
97 = 97	98 = 98	99 = 99
KEYPAD		MAX.
1234		OT AD KEYPAD
2345		*1 FX-480 : 10 45 1
3456		*2 FX-050VP : 15 64 5
4567		*3 FX-175VP : 30 99 5

Broadcast Confirmation Report Format: (Example)

BROADCAST CONFIRMATION REPORT						
PAGES	=	01		07/01/96 17:05		
				ID=OKI		
TOTAL TIME	=	00:02'30"				
LOCATION ID	PAGES	RESULT	LOCATION ID	PAGES	RESULT	
ONE TOUCH						
1 = OT1	01	OK	2 = OT2	01	OK	
3 = OT3	01	OK	4 = OT4	01	OK	
5 = OT5	01	OK				
AUTO DIL						
01 = AD1	01	OK	02 = AD2	01	OK	
03 = AD3	01	OK	04 = GERMAN	01	OK	
05 = AD5	01	OK				
KEYPAD						
1234	01	OK				
3456	01	OK				
5678	01	OK				

(F030-C1-010)

Confidential Reception Report Format: (Example)

CONFIDENTIAL RX REPORT

07/01/96 17:05
ID=OKI

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

Telephone Directory for OKIOFFICE 44 (1/2): (Example)

TELEPHONE DIRECTORY P1

07/01/96 19:19
ID=OKI DATA CORP.

ONE TOUCH	LOCATION ID	TEL NO.	PRM. ECHO
1	OKI SERVICE	<input type="checkbox"/> 123 123 123	(OFF)
		OR <input type="checkbox"/> 111 222 333	
2	OKI OFFICE	<input type="checkbox"/> 456 456 456	(OFF)
		OR <input type="checkbox"/> 444 555 666	
3	OKI LABORATORY	<input type="checkbox"/> 789 789 789	(OFF)
		OR <input type="checkbox"/> 777 888 999	
4	ODC TAKASAKI	<input type="checkbox"/> 000 111 222	(OFF)
		OR <input type="checkbox"/> 444 555 666	
5	ODC QA/QC LAB.	<input type="checkbox"/> 1234 5678 90123	(OFF)
		OR <input type="checkbox"/> 123 123 123	
6		<input type="checkbox"/>	(OFF)
		OR <input type="checkbox"/>	
7		<input type="checkbox"/>	(OFF)
		OR <input type="checkbox"/>	
8		<input type="checkbox"/>	(OFF)
		OR <input type="checkbox"/>	
9		<input type="checkbox"/>	(OFF)
		OR <input type="checkbox"/>	
10		<input type="checkbox"/>	(OFF)
		OR <input type="checkbox"/>	
AUTO DIAL			
01		<input type="checkbox"/>	
02		<input type="checkbox"/>	
03		<input type="checkbox"/>	
04		<input type="checkbox"/>	
05		<input type="checkbox"/>	
06		<input type="checkbox"/>	
07	ODC TAKASAKI	<input type="checkbox"/> 0273 28 1234	
08		<input type="checkbox"/>	
09		<input type="checkbox"/>	
10		<input type="checkbox"/>	
11		<input type="checkbox"/>	
12		<input type="checkbox"/>	
13		<input type="checkbox"/>	
14		<input type="checkbox"/>	
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16		<input type="checkbox"/>	
17		<input type="checkbox"/>	
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30		<input type="checkbox"/>	
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36		<input type="checkbox"/>	
37		<input type="checkbox"/>	
38		<input type="checkbox"/>	
39		<input type="checkbox"/>	
40		<input type="checkbox"/>	
41		<input type="checkbox"/>	
42		<input type="checkbox"/>	
43		<input type="checkbox"/>	
44		<input type="checkbox"/>	
45		<input type="checkbox"/>	

TELEPHONE DIRECTORY P2

07/01/96 19:20
ID=OKI DATA CORP.

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

#1 ONE TOUCH

1 2 3 4 5 6 7 8 9 10

AUTO DIAL

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

#2 ONE TOUCH

AUTO DIAL

#3 ONE TOUCH

AUTO DIAL

#4 ONE TOUCH

AUTO DIAL

#5 ONE TOUCH

5

AUTO DIAL

07

Configuration Report (User)

NOTE:

The function settings shown ARE NOT the factory defaults.

Refer to Section 2 for the technical function setting defaults.

07/01/96 17:05
ID=OKI

CONFIGURATION

FUNCTION LIST

01:MCF (SINGLE-LOC.) ON	02:MCF (MULTI-LOC.) ON	03:ERR.REPORT (MCF) ON
04:MESSAGE IN MCF ON	05:SENDER ID. ON	06:MONITOR VOLUME LOW
07:BUZZER VOLUME MIDDLE	08:CLOSED NETWORK OFF	09:TX MODE DEFAULT FINE/NORMAL
10:T/F TIMER PRG. 35SEC	11:RING RESPONSE 1RING	12:DISTINCTIVE RING OFF
13:1'ST PAPER SIZE A4	14:2'ND PAPER SIZE *1 A4	15:USER LANGUAGE ENGLISH
16:INCOMING RING ON	17:REMOTE RECEIVE OFF	18:MEM./FEEDER SWITCH MEMORY
19:POWER SAVE MODE ON	20:ECM FUNCTION ON	21:REMOTE DIAGNOSIS OFF
22:PC/FAX SWITCH *2 ON		

TEL NO. = 12345678901234567890
CALL BACK NO. = 12345678901234567890
FORWARD TEL NO. = 12345678901234567890

REDIAL TRIES	3TRY	REDIAL INTERVAL	3MIN
DIAL TONE DETECT	OFF	BUSY TONE DETECT	ON
MF (TONE)/DP (PULSE)	MF	PULSE DIAL RATE	10PPS
PULSE MAKE RATIO	39%	PULSE DIAL TYPE	NORMAL
MF (TONE) DURATION	100MSEC	PBX LINE	OFF
PBX TYPE	NORMAL	AUTO START	ON
DIAL PREFIX	OFF	IT2 DETECT	ON *3

*1 Function 14 is printed when 2'nd Tray is installed.

*2 Function No.22 is printed when CTR board is installed.

*3 In case of country code=FRE

CONFIGURATION

07/01/96 17:05
ID=OKI

FUNCTION LIST

01:SERVICE BIT ON	02:MONITOR CONT. OFF	03: COUNTRY CODE USA
04:TIME/DATE PRINT OFF	05:TSI PRINT OFF	06: NO TONER MEM. RX ON
07:TAD MODE TYPE2	08:REAL TIME DIAL TYPE2	09: TEL/FAX SWITCH ON
10:MDY/DMY. MDY	11:LONG DOC. SCAN OFF	12: TONE FOR ECHO OFF
13:MH ONLY OFF	14:H/MODEM RATE 14.4K	15: T1 (TX) TIMER VALUE 59SEC
16:T1 (RX) TIMER VALUE 35 SEC	17:T2 TIMER VALUE 10 SEC	18: DIS BIT32 ON
19:ERR. CRITERION VALUE 10	20:OFF HOOK BYPASS OFF	21: NL EQUALIZER 0DB
22:ATTENUATOR 10DB	23:T/F TONE ATT. 10DB	24: MF ATT. 6DB
25:RING DURA. * 10MS 12	26:CML TIMING * 100MS 3	27: LED HEAD STROBE 10100
28:LED HEAD WIDTH TYPE1	29:MEDIA TYPE MEDIUM	30: TR LATCH CURRENT +1
31:SYMBOL RATE 3200		

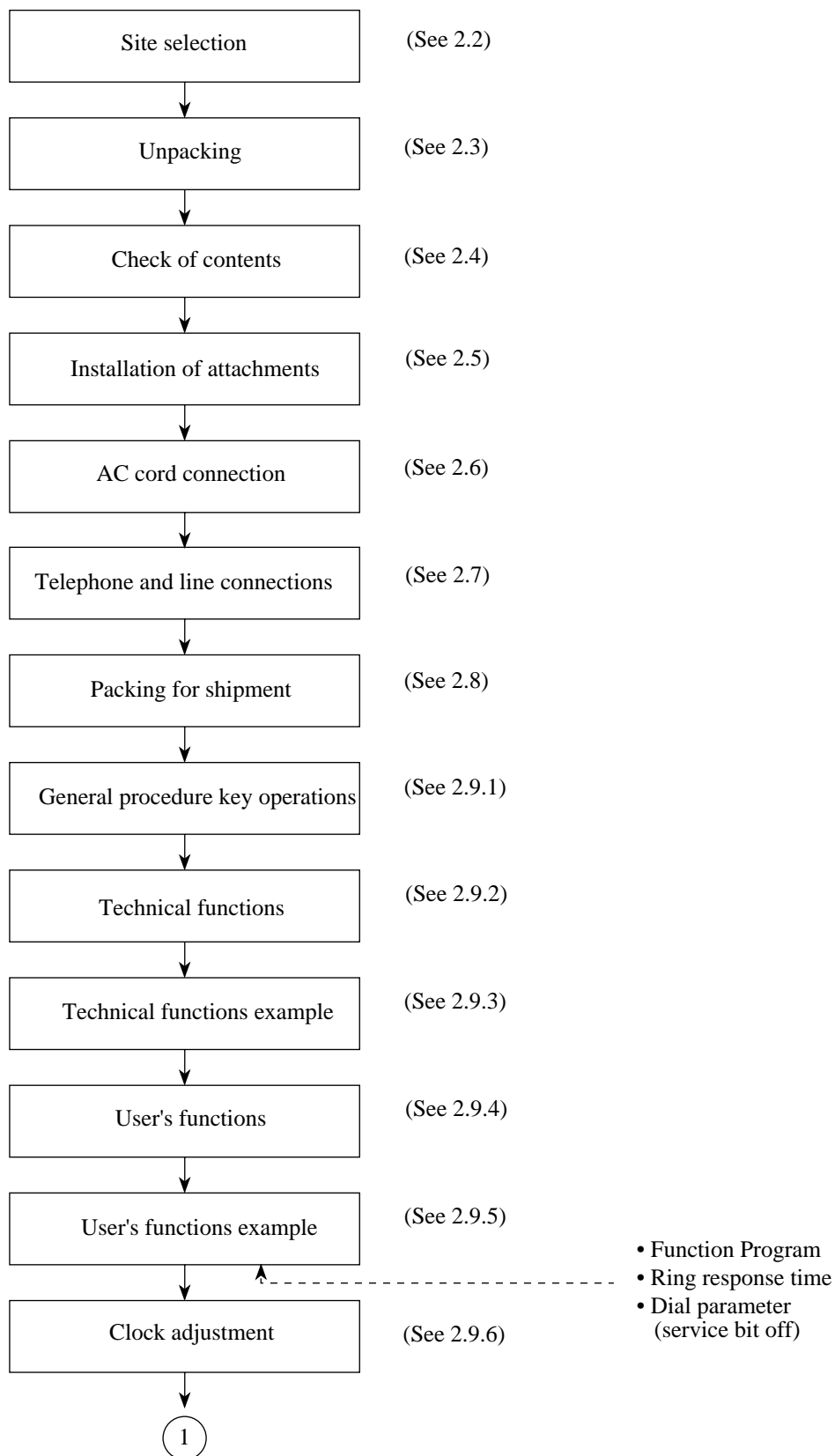
Note: No. 30 is only for FX-048.
No. 31 is only for FX-175VP.

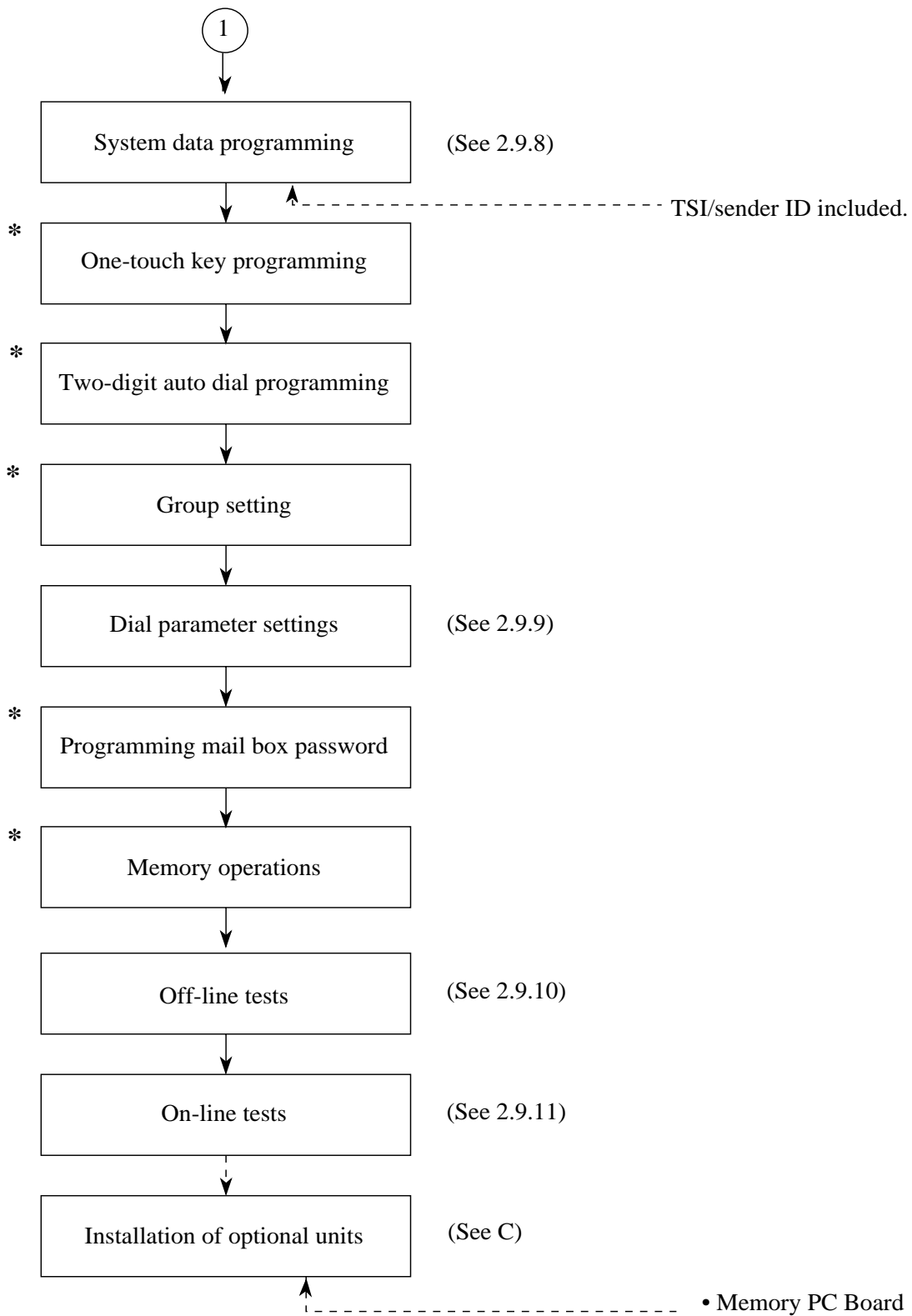
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Section 2: Installation

2.1 General Setup Information

The following flowchart outlines the installation procedure.





* : See user's guide

2.2 Site Selection

INSTALLATION

Precautions for Installation

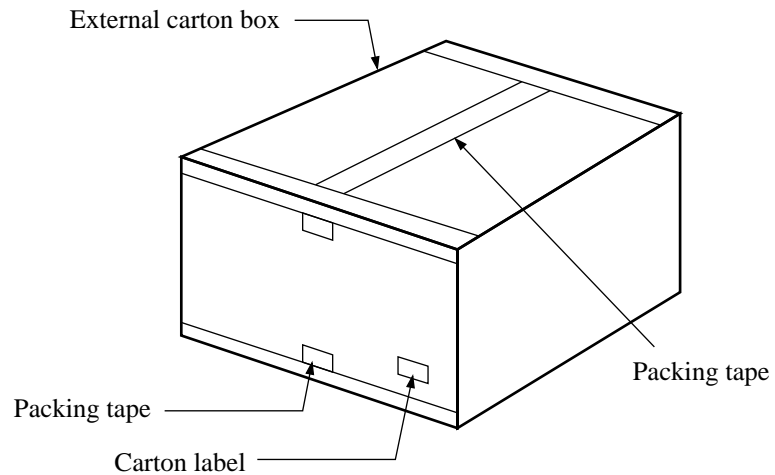
- (1) Fluctuation in line voltage
 - 120V AC (102V to 127V)
 - 230V AC (198V to 264V)
- (2) Room temperature
50 to 90 degrees Fahrenheit (10 to 32 degrees Celsius)
- (3) Humidity
20 to 80% RH
- (4) Operating environment
Pressure: Equivalent to altitude of 2500 m and below.
- (5) Exposure
Within five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

2.3 Unpacking

2.3.1 Unpacking for OKIOFFICE 44

Procedure

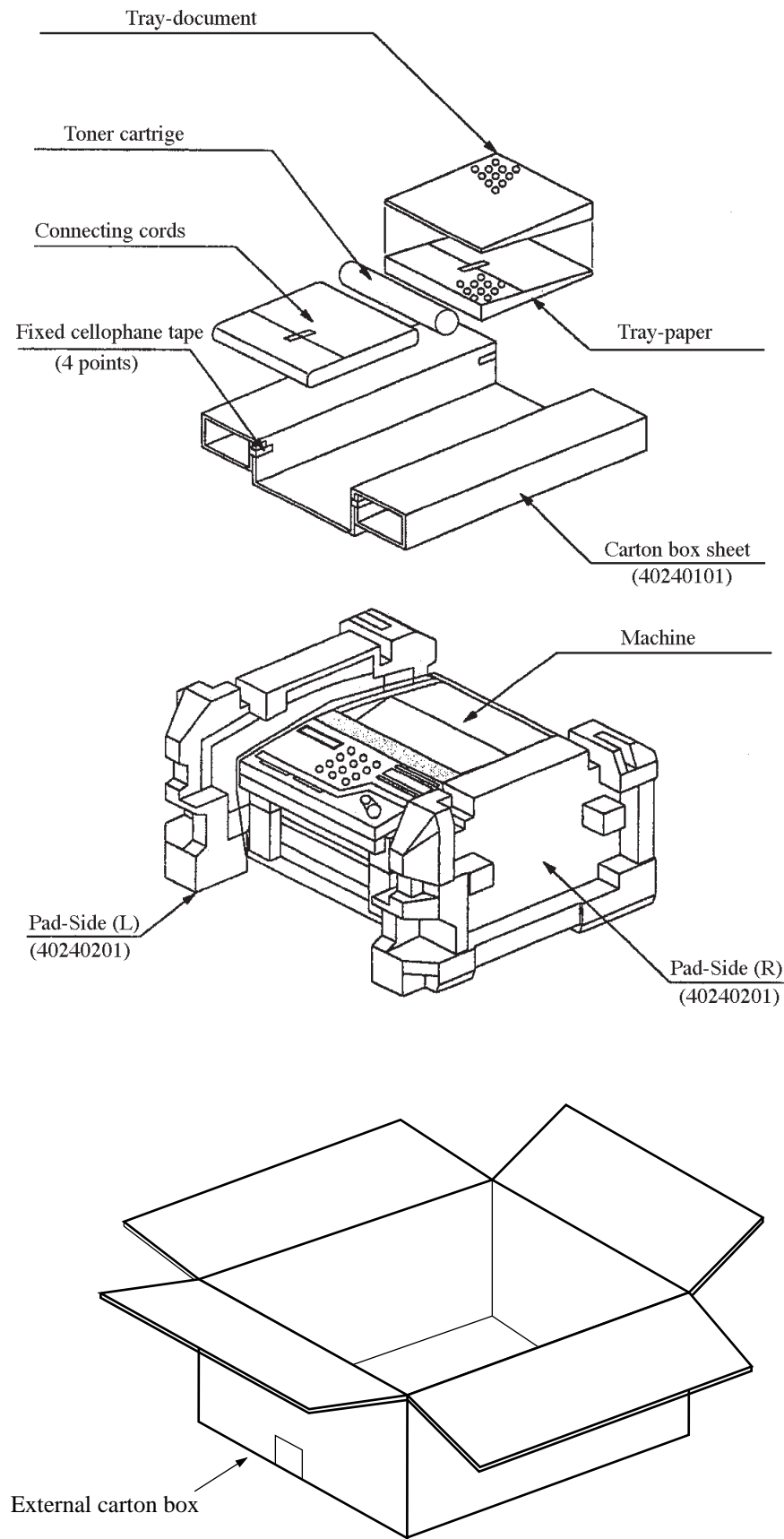
- (1) Remove tape on the top of the carton box and open its cover.



FX048-C2-003

Figure 2.3.1.1 Unpacking Procedure (1)

- (2) Take out the accessory box from the carton box.
(See Figure 2.3.1.1)
- (3) Take out the machine with plastic wrapper from the box.



FX048-C2-004

Figure 2.3.1.1 Unpacking Procedure (2)

2.4 Check of Contents

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

Table 2.4.1 Contents List for OKIOFFICE 44

Item No.	Name	Q'ty	Remarks
1	OKIOFFICE 44	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	
8	Tray paper	1	
9	Tray document	1	
10	JetSuite Software User's Guide	1	
11	Quick Start Guide	1	
12	WordScan OCR Manual	1	

2.5 Installation of Attachments

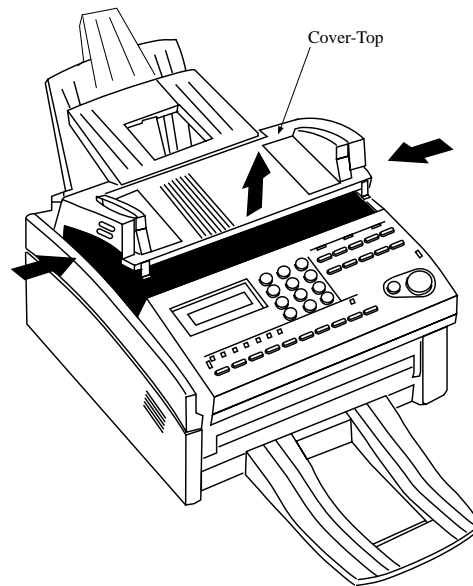
(1) Items

- 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.
- Take the plastic cover out of the ID unit.



FX048-C2-006

Figure 2.5.1.1 Toner Cartridge Installation (1)

- 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.

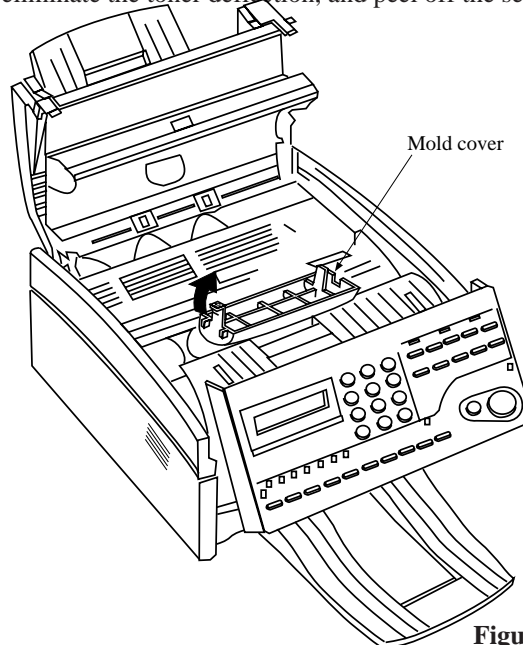
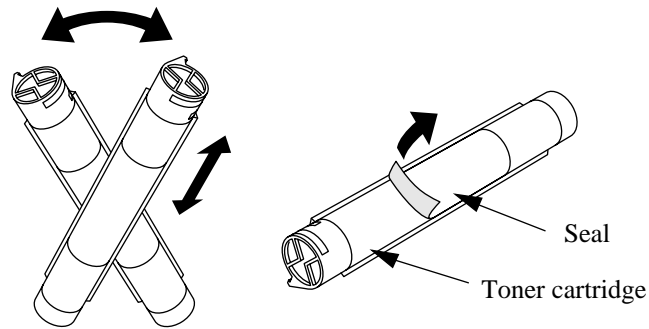


Figure 2.5.1.2 Toner Cartridge Installation (2)

FX048-C2-007

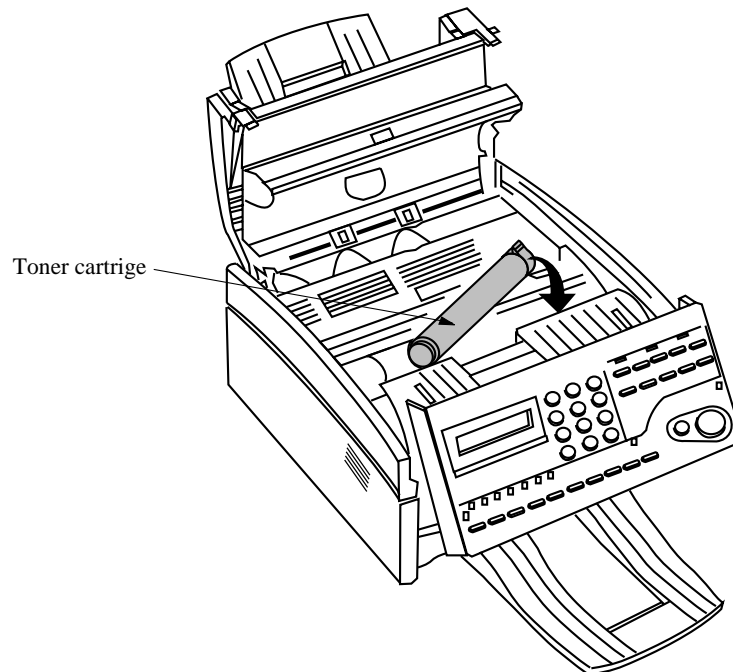
- Ensure that the plastic tab on the right-hand side of the toner cartridge recess lines up with the groove on the toner cartridge.



FX048-C2-008

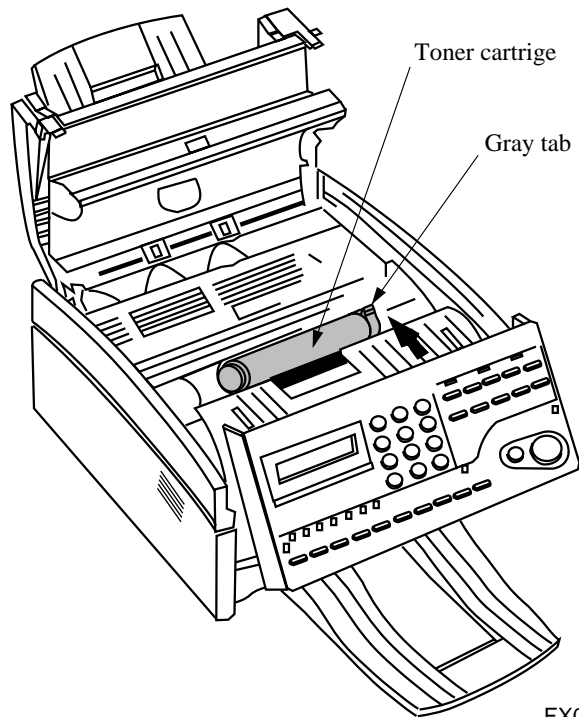
Figure 2.5.1.3 Toner Cartridge Installation (3)

- Press down on both ends to make sure the cartridge is fully seated.
- Push the gray tab forward until it stops.



FX048-C2-009

Figure 2.5.1.4 Toner Cartridge Installation (4)



FX048-C2-010

Figure 2.5.1.5 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. Heat makes the toner adhere to surfaces and will make the toner more difficult to remove.
- 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.

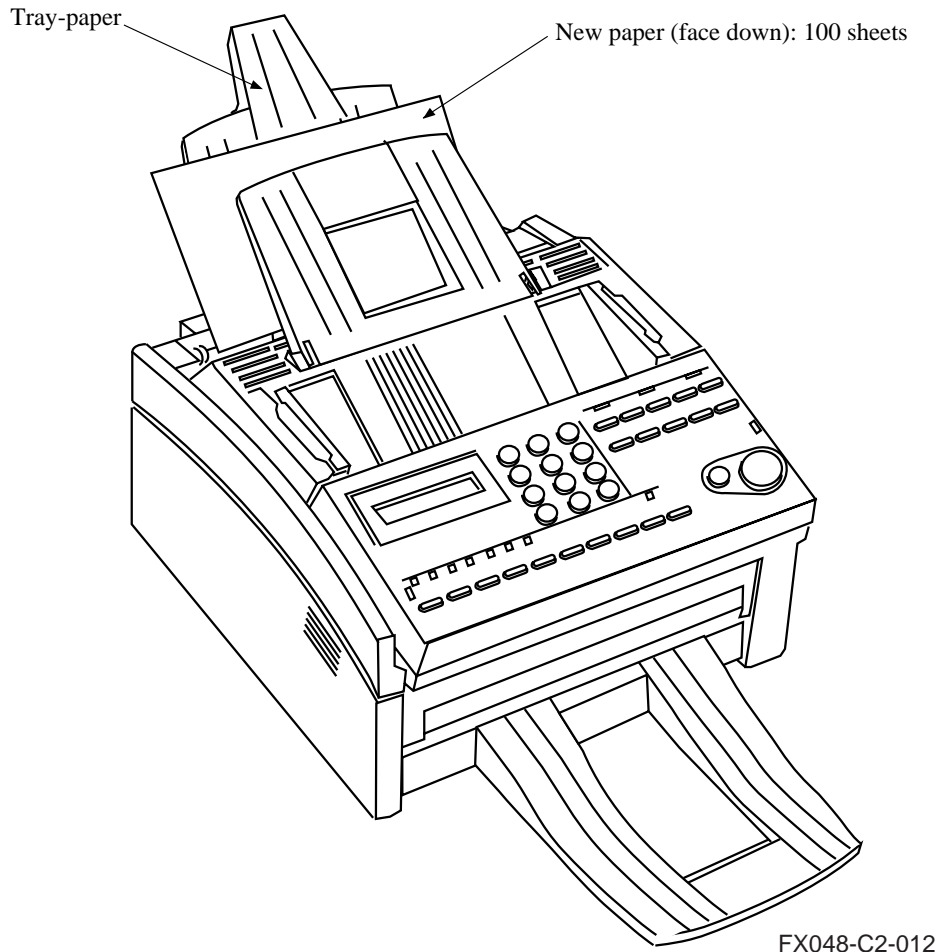
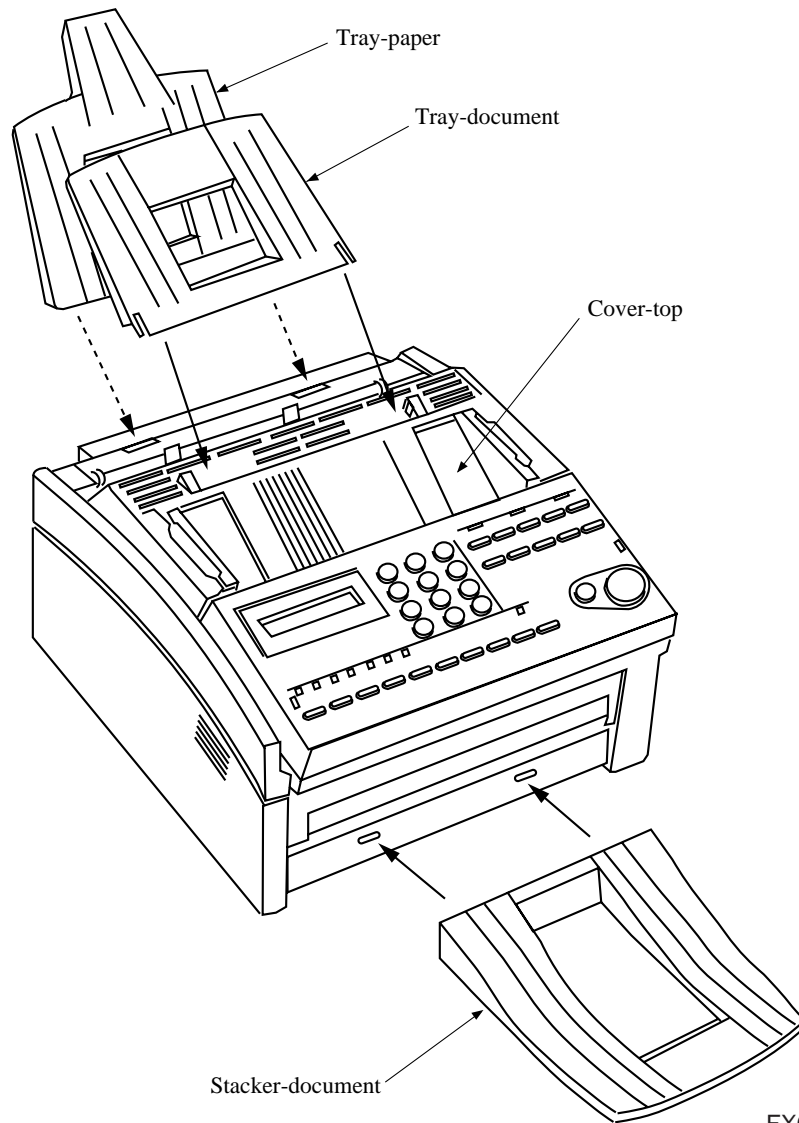


Figure 2.5.7 Recording Paper Cassette Installation (2)

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

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



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Figure 2.5.1.7 Document Stacker Installation

2.6 AC Cord Connection

The power supply is provided as follows.

Nominal input voltage 120V AC (Voltage range 102 to 127V AC)

Nominal input voltage 230V AC (Voltage range 198 to 250 V AC)

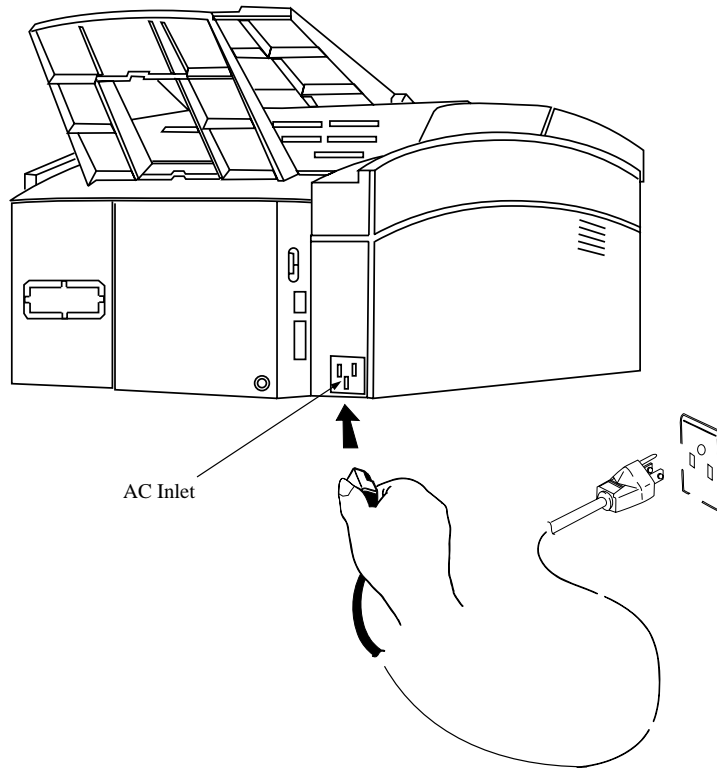
Check whether the AC voltage of your input is within the above-mentioned voltage range

Connect the female plug of the AC cord to the machine.

Insert the male plug of the AC cord to the inlet receptacle.

Check that the display shows “(Time)” message indicating the standby mode.

- 1) For OKIOFFICE 44



FX048-C2-014

Note:

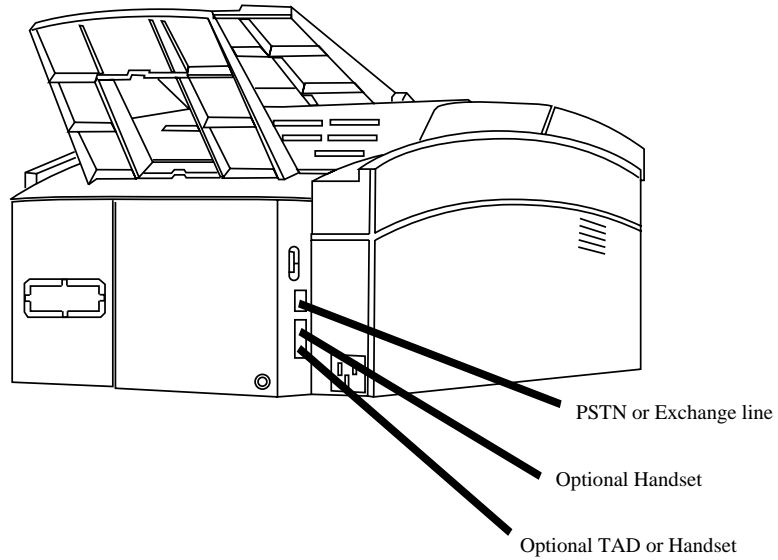
The OKIOFFICE 44 is NOT equipped with a AC power switch.

2.7 Telephone and Line Connections

(1) Procedure

- Connect the lines.

1) For OKIOFFICE 44



FX048-C2-015

2.8 Packing for Shipment

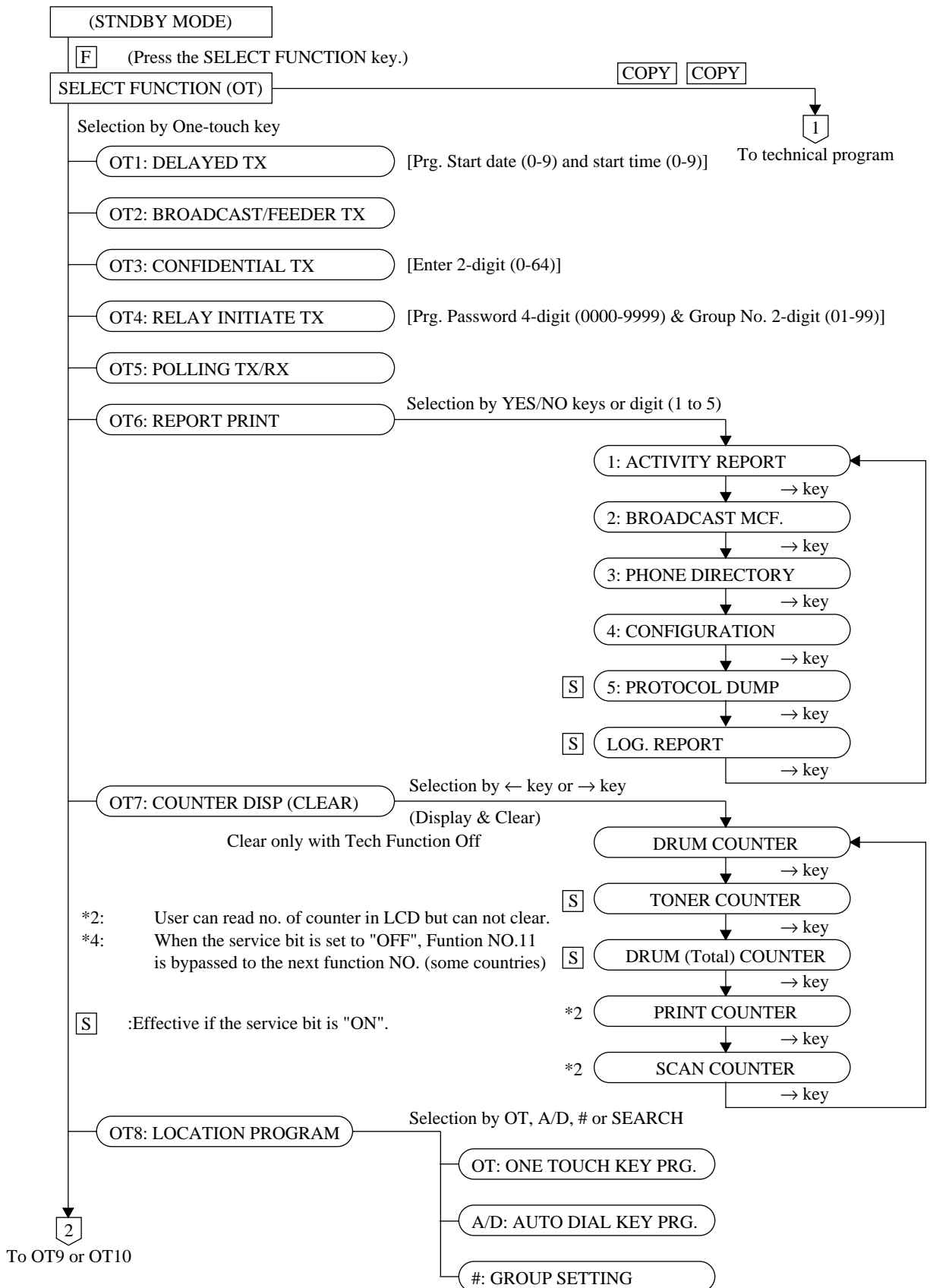
CAUTION: When packing the OKIOFFICE 44 for shipment, REMOVE THE IMAGE DRUM AND TONER FROM THE UNIT AND SHIP SEPARATELY!
Failure to do this will result in damage to the machine.

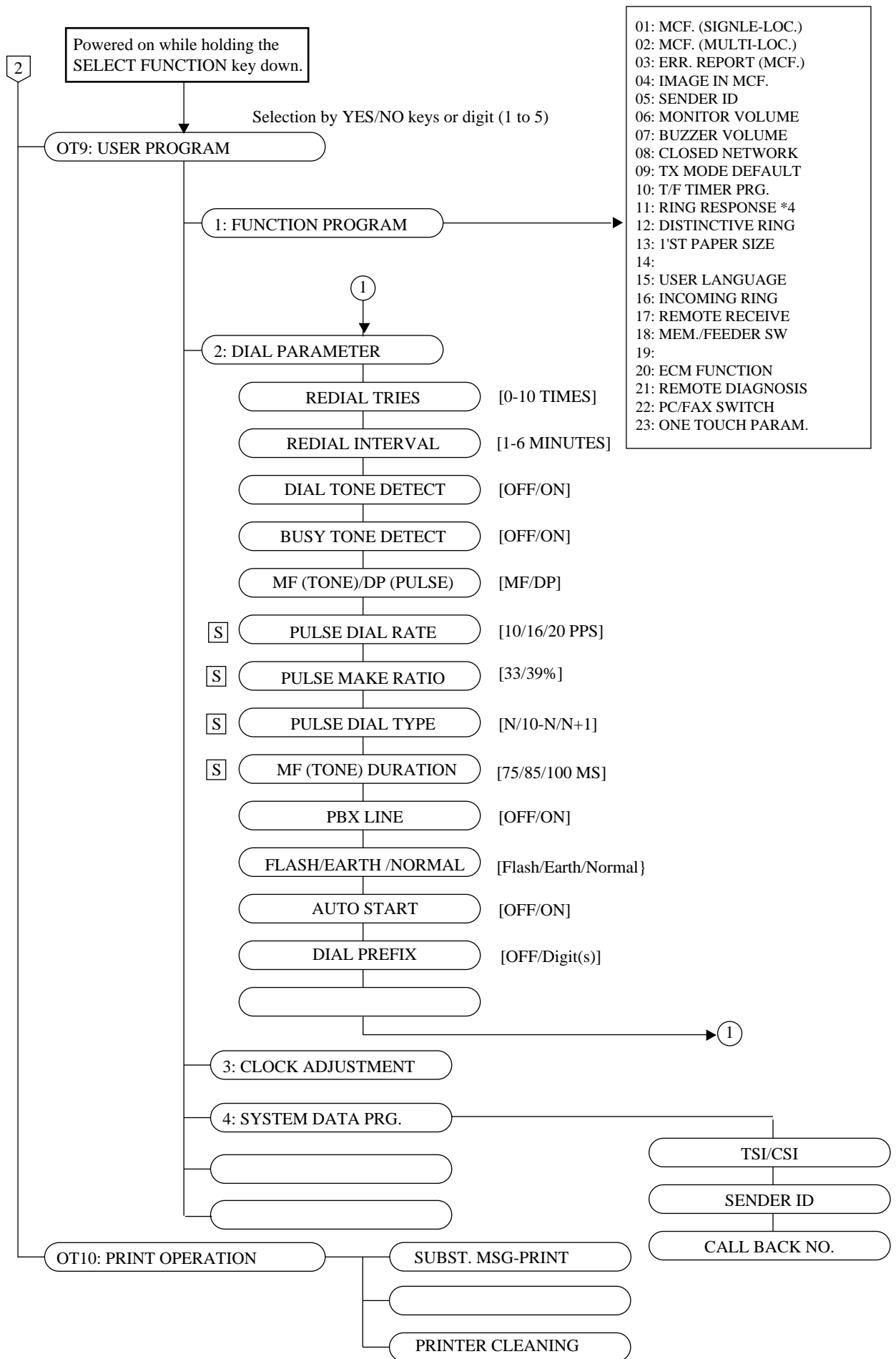
2.9 Initial Settings

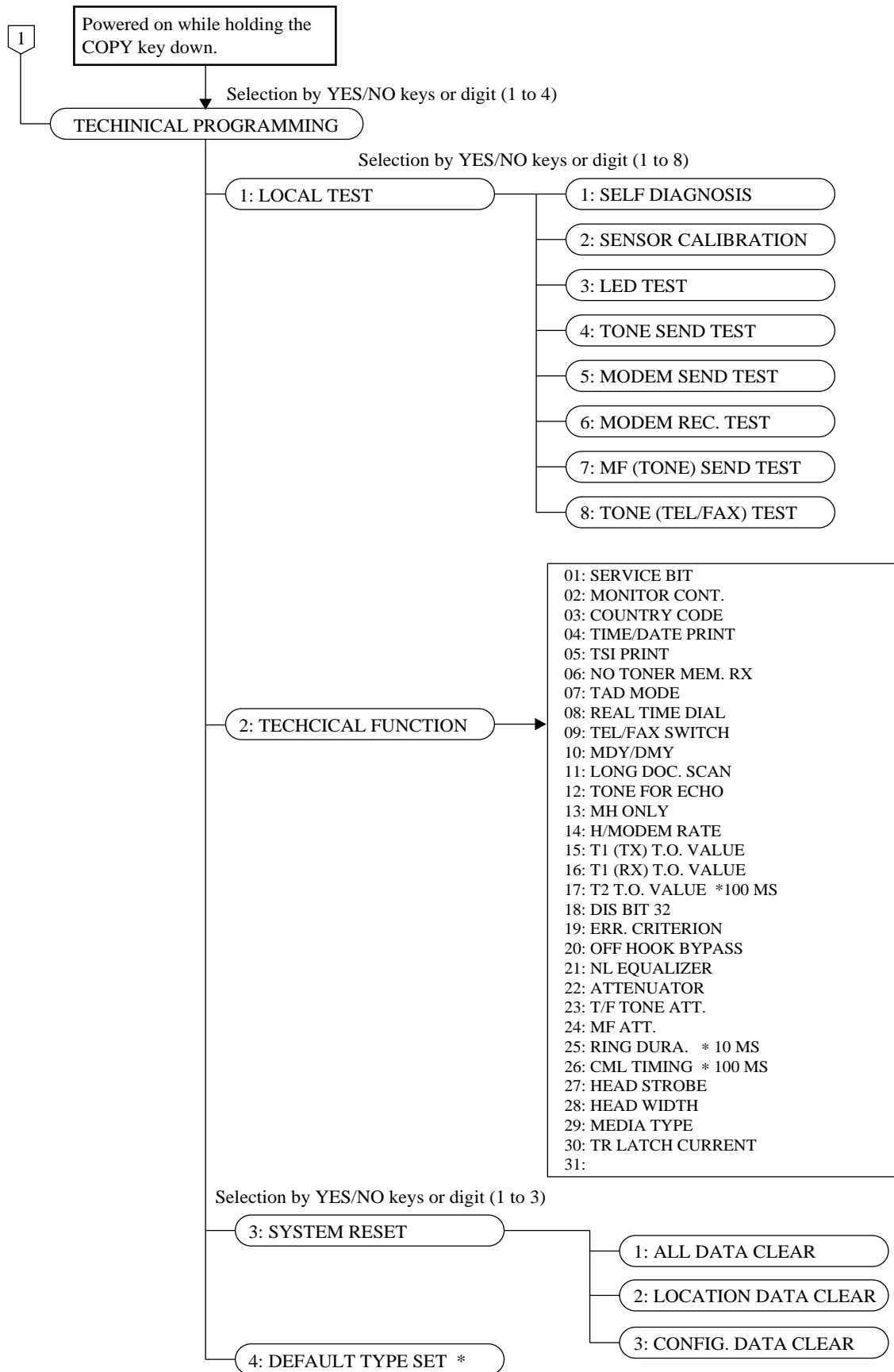
2.9.1 General Procedure of Key Operation

Figure 2.9.1 shows the general procedure of key operation.

Key Operation Flowchart







* Should be set to "1" for proper operation

2.9.2 Technical Functions

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

Table 2.9.1 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

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

Service Personnel Initial Settings Table 2.9.1 (1/7)

T.F. No.	Item	Specifications	Default
01	Service bit	Switching serviceman/user operation. ON : Service personnel's features are available. OFF : Service personnel's features are not available. To enable or disable the following functions: • Drum (Total) and toner counter clear • Protocol dump • Dial parameters • etc.	OFF
02	Line monitor control	To enable continuous monitoring of phone line for technical troubleshooting. FP +06 (To select the loudness of monitoring) ON : Enable OFF : Disable <i>Example:</i> 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.	OFF
03	Country code	Selecting the following country code: USA, INT'L, GBR, IRL, NOR, SWE, FIN, DEN, GER, HUN, TCH, POL, SUI, AUT, BEL, HOL, FRE, ESP, ITA, GRE, AUS, NZL, SIN, HNG	USA
04	Time and date print	Enables or disables the function of printing local date and time at the top of the received page. OFF/ ONCE/ALL selectable. <i>Note:</i> • Set at receiver.	OFF
05	TSI print	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.) When TF04 is set to "ALL", TSI is printed for the all received pages. ON : Enable OFF : Disable (Reference) TSI; Transmitting Subscriber Identification	ON

Service Personnel Initial Settings Table 2.9.1 (2/7)

T.F. No.	Item	Specifications	Default
06	No-toner memory reception	<p>Enables or disables the memory reception when the fax is in no toner condition.</p> <p>ON : The messages are printed when toner has been newly supplied or an operator performs the memory operation (OT10).</p> <p>OFF : The messages are printed in the print mode. But print quality is not guaranteed.</p>	OFF
07	<p>TAD mode (For external telephone answering device.)</p> <p>NOTE:</p> <p>If the REMOTE RX Function is set to a value other than OFF, that code can be used to force FAX RX during TAD Mode.</p>	<p>Allows the OKIOFFICE to share a telephone line with an answering device. TAD mode is of two types (TYPE1/TYPE2).</p> <p>OFF/TYPE1/TYPE2 selectable.</p> <p>TYPE1 means:</p> <ol style="list-style-type: none"> 1. RING comes. 2. The TAD answers, returns the recorded voice message in TAD to calling party. 3. The FAX machine will continue to detect CNG signal while TAD works. 4. If the FAX machine detects CNG signal, the fax will go into normal receiving mode. 5. Even though the fax does not detect CNG signal, the fax will go to receiving mode in hook-on condition. <p>TYPE2 means:</p> <p>The function from No. 1 to No. 4 of upper TYPE2 are the same as TYPE1.</p> <ol style="list-style-type: none"> 5. If the fax does not detect CNG signal during working of TAD, the machine will go to standby mode. 	TYPE 2
08	Real time dialing	<p>Enables or disables the real time dialling. 3 types selectable. (OFF/TYPE1/TYPE2)</p> <p>TYPE1: Real-time dialling is available when the optional telephone handset is OFF-HOOK. TYPE2: Real-time dialling is available when the optional telephone handset is OFF-HOOK or HOOK key is pressed.</p>	TYPE 2
09	TEL/FAX switching	<p>Enables or disables the TEL/FAX automatic switching.</p> <p>ON : Enable OFF : Disable</p> <p>(Related item: FP10, TF23)</p>	ON

Service Personnel Initial Settings Table 2.9.1 (3/7)

T.F. No.	Item	Specifications	Default												
10	MDY/DMY	Switches LCD display and report print from month/day/year to day/month/year or vice versa. MDY/DMY selectable.	MDY												
11	Long document SCAN	Switches the function of transmitting long-size document (more than 380 mm). ON : Unlimited (1 hour) OFF : 380 mm. (14.96 inches)	OFF												
12	Echo Protection	Enables echo suppression for poor lines with echo, usually during overseas transmissions. This bit setting controls the following features. ON: Enables <table border="1" style="margin-left: auto; margin-right: auto;"> <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> (TF-12 table) OFF: Disables	Echo Protection	OFF	ON	Ignore 1st DIS	OFF	ON	CED-DIS timer	75 ms	1.5 sec	Tone for echo	OFF	ON	OFF
Echo Protection	OFF	ON													
Ignore 1st DIS	OFF	ON													
CED-DIS timer	75 ms	1.5 sec													
Tone for echo	OFF	ON													
13	MH only	Switches the function of limiting image compression only to the MH codes. ON : Coding scheme is MH only. When the receiving image data is affected by noise on the telephone line. This affects all communications and should only be used as a last resort. OFF : Any of MH, MR and MMR.	OFF												
14	High-speed modem rate	Specifies the modem's starting speed, 14.4k, 9.6k, or 4.8kbps.	14.4 k												
15	T1 (TX), timeout value	Registers the time duration (in seconds) for which the fax waits for the remote station's answer. This timer starts when the last dialled digit has been sent in the automatic transmission mode. * Selects the 3 digit timer 010 to 255 sec selectable (in one second steps).	059 sec												

Service Personnel Initial Settings Table 2.9.1 (4/7)

T.F. No.	Item	Specifications	Default
16	T1 (RX), timeout value	<p>T1 (RX), timeout value (later) Registers the time duration (in seconds) for which the fax waits for the remote station's answer. This timer starts after the DIS is transmitted, and checked this timer by the transmission timing signal. If T1 times out, the fax disconnects the line. * Selects the 3 digit timer 010 to 255 sec selectable. (in one second steps)</p>	035 sec.
17	T2, timeout value	<p>T2, timeout value (layer) Registers the time duration (in seconds) for which the fax detects the EOL interval during reception of phase C. The fax disconnects the line when EOL can not detect within T2 timer. * Selects the 3 digit timer 001 to 255 selectable. (in 100 ms steps) For example: 060 x 100 ms =6 s</p>	130 sec.
18	DIS bit 32	<p>Specifies whether to transmit a bit 32 in DIS.</p> <p>ON : Transmits a bit 32 OFF: Disable</p> <p>Note: Disable only if communication/compatibility problems occur with older remote machine.</p>	ON
19	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>	10%
20	Off-hook bypass	<p>Allows two OKIFAX machines to be connected back-to-back for testing purposes.</p> <p>ON : Enable OFF: Disable</p>	OFF
21	NL equalizer	<p>Selects equalization for the following cable lengths: 0 km/1.8 km/3.6 km/ 7.2 km selectable.</p> <p>Note: Relative to 1700 Hz for length of 0.4 mm diameter cable.</p>	0 Km

Service Personnel Initial Settings Table 2.9.1 (5/7)

T.F. No.	Item	Specifications	Default
22	Modem attenuator	<p>Adjusts the attenuation (dB) for the transmit signal power level. Adjusting value is 0 to 15 dB in one dB steps. 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> <p>0 to 15 dB. selectable</p> <p>Note: 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>	10 dB
23	T/F tone attenuator (for TEL/FAX SW)	<p>Adjusts the attenuation (dB) for the quasi-ring back tone send signal of TEL/FAX switching. Adjusting value is 0 to 15 dB in one dB steps.</p>	10 dB
24	MF attenuator	<p>Adjusts the attenuation (dB) for the send MF tone power level. Adjusting value is 0 to 15 dB in one dB steps.</p>	
25	Ring duration detection time	<p>Selects the minimum ring detection time Adjusting time is 100 MS to 990 MS in 10 MS steps.</p> <p>10 to 99 selectable.</p> <p>For example: (120 ms) $12 \times 10 \text{ ms} = 120 \text{ ms}$</p>	12
26	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) $03 \times 100 \text{ ms} = 300 \text{ ms}$</p>	03

Service Personnel Initial Settings Table 2.9.1 (7/7)

T.F. No.	Item	Specifications	Default									
28	Head width	<p>Head width (later) You should confirm the head width by the following table, and then select it by this setting. (Refer to 4.2.1) Head width is two types (TYPE1/TYPE2).</p> <table border="1" data-bbox="760 436 1192 562"> <thead> <tr> <th>Setting</th> <th>Head width</th> <th>Head label</th> </tr> </thead> <tbody> <tr> <td>TYPE 1</td> <td>208 mm</td> <td>1115G2</td> </tr> <tr> <td>TYPE 2</td> <td>216 mm</td> <td>A4 200</td> </tr> </tbody> </table>	Setting	Head width	Head label	TYPE 1	208 mm	1115G2	TYPE 2	216 mm	A4 200	TYPE 2
Setting	Head width	Head label										
TYPE 1	208 mm	1115G2										
TYPE 2	216 mm	A4 200										
29	<p>Media type This setting can cause minor changes in the transfer roller current to compensate for different paper weights.</p>	<p>Selects the recording paper according to its quality. Medium, Medium-heavy and Heavy selectable.</p>	Medium									
30	<p>Transfer Roller Latch Current This setting can cause minor changes in the transfer roller current to compensate for different paper weights.</p>	<p>Selects the latch current for the transfer roller (-1, 0, +1, +2)</p>	+ 1									
31	Not Used											

TEL/FAX Automatic Switching

NOTE:

This function assumes that an optional handset is connected to the machine.

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 for up to 35 seconds (by default).

If the operator at the called side does not lift the handset within 35 seconds (by default), the machine automatically starts a document receiving operation.

Voice conversation will automatically be available through the internal handset by lifting up the handset while the call buzzer is sounding.

Note: In this mode, following four settings are required.

- 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.

2) TAD mode

TAD: Telephone Answering Device

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

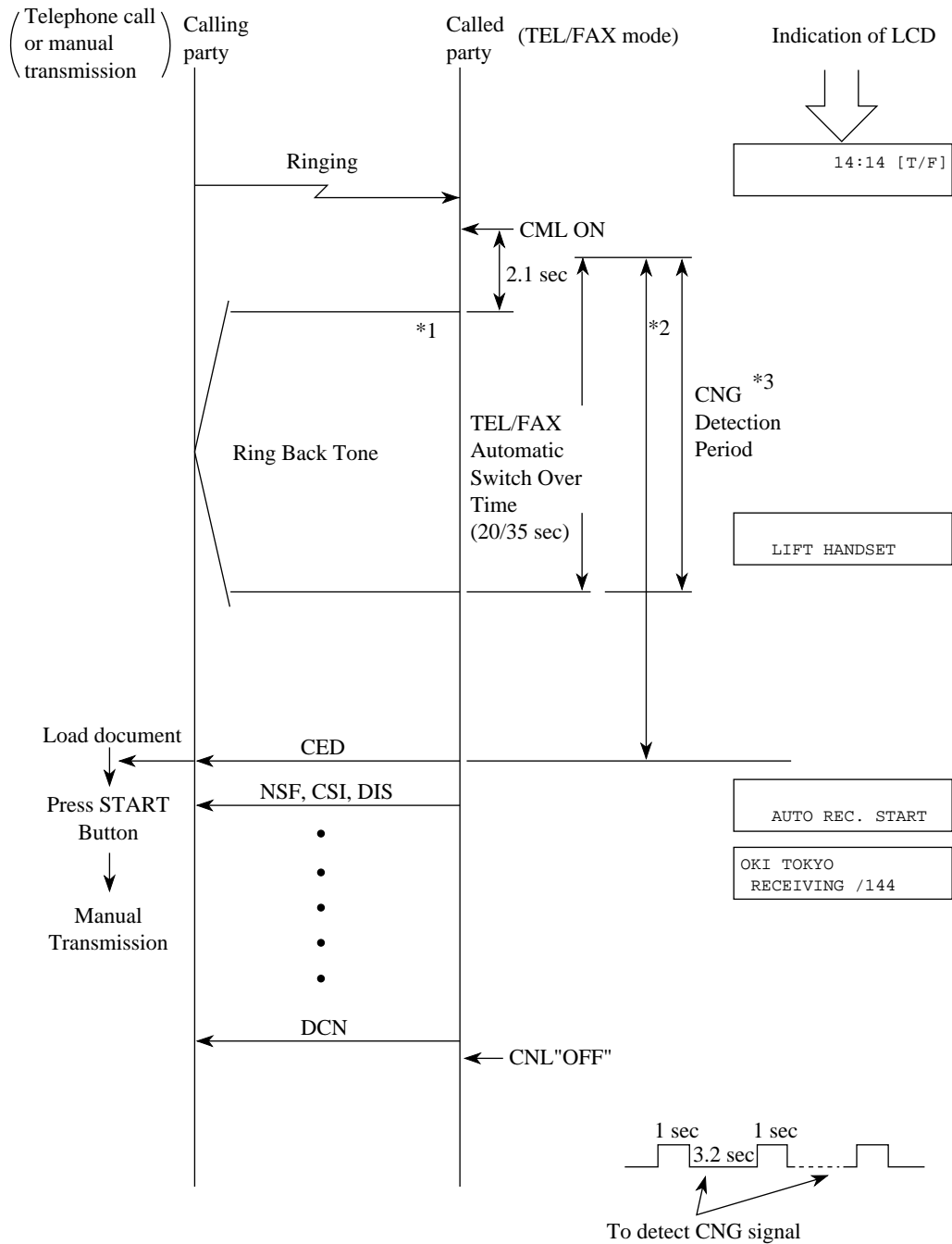
TAD records your speech and switches an automatic voice message response to the calling station.

Note 1: A choice of TAD mode is available by Technical Function No. 12.

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

Note 3: Choice of message sending level. The level is selectable from 0 to 15 dB in one dB step.
(Technical function No. 23)

TEL/FAX Mode Flow Chart



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[Notes]

*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".

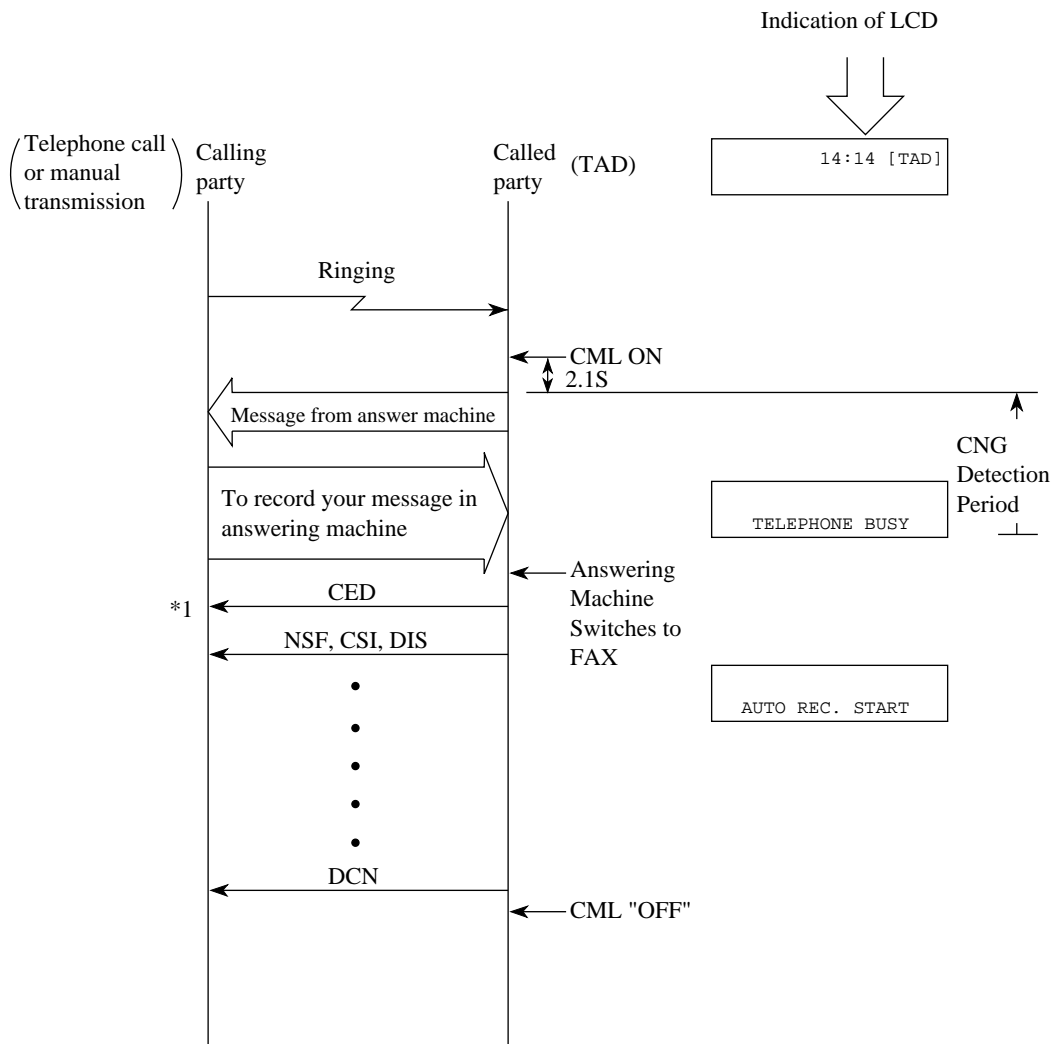
TAD Mode Flow Chart (Type 1)

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

NOTE:

If the Remote RX function is set to a value other than OFF, that code can be used to force FAX RX during TAD Mode Operation.



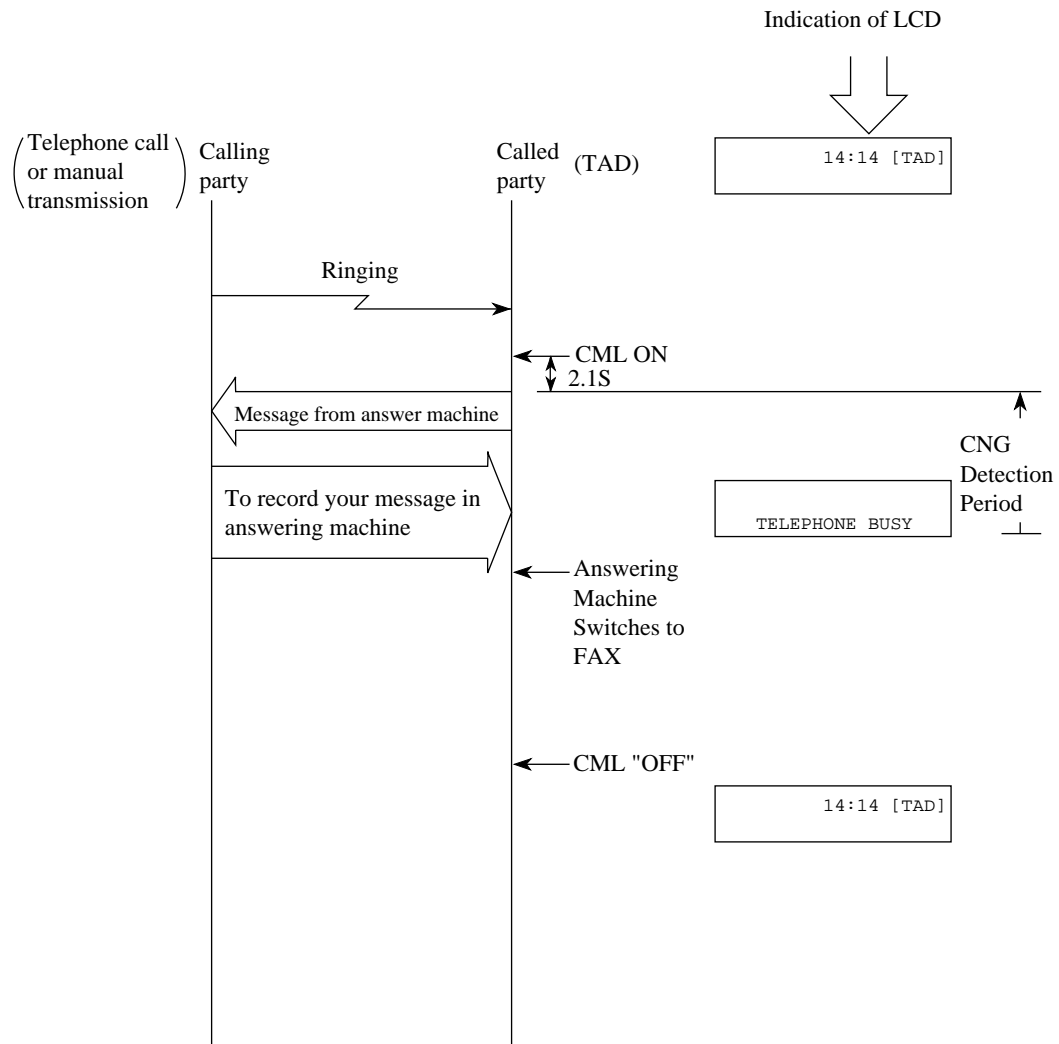
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TAD Mode Flow Chart (Type 2)

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

NOTE:

If the Remote RX function is set to a value other than OFF, that code can be used to force FAX RX during TAD Mode Operation.



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2.9.3 Technical Functions Example

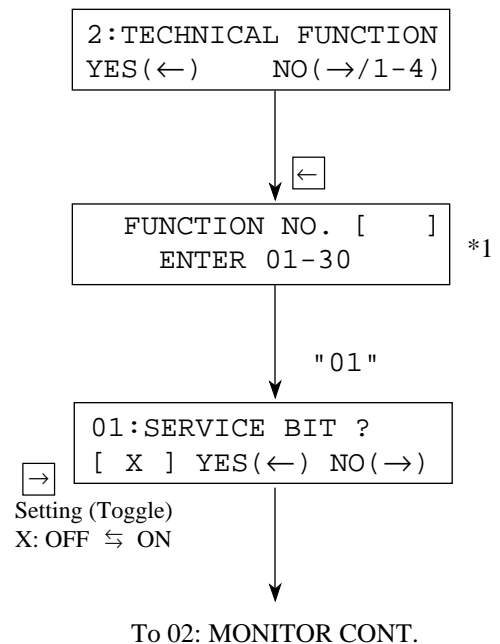
(1) Service Bit Setting

- 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. (In case of no message in memory)
- Press key.
- Service bit setting is T.F. No. 01.
Enter "01"

The display shows:



*1: 01-30 for OKIOFFICE44

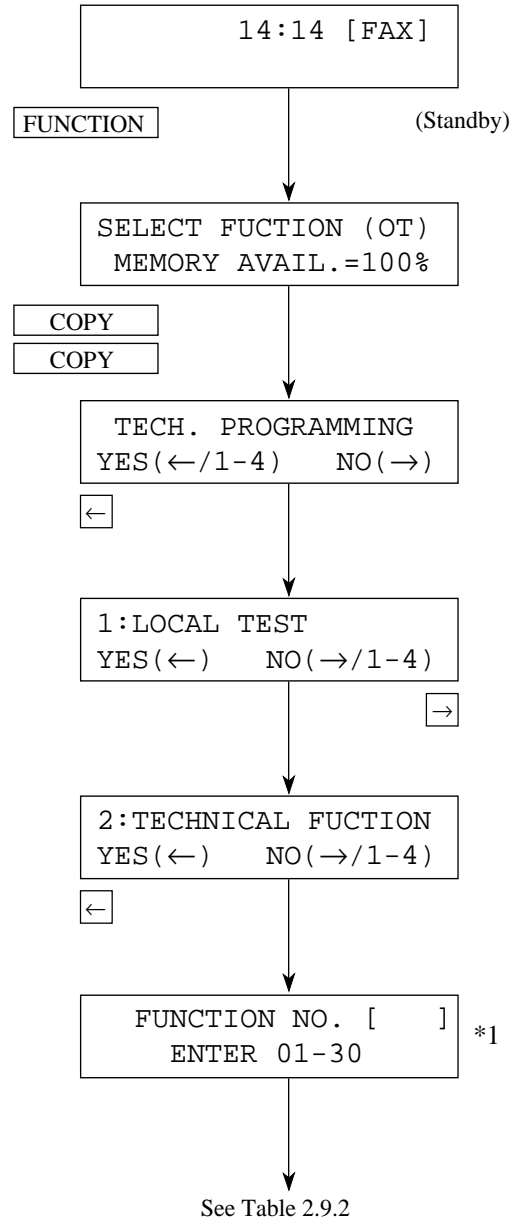
Reference: See Figure 2.9.1 on the next page for the general operation flow.

(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:



Technical Functions 01 to 11 (Table 2.9.2, 1/5)

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 [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON
02	Line monitor control	<div style="border: 1px solid black; padding: 2px; display: inline-block;">02:MONITOR CONT. [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON
03	Country code	<div style="border: 1px solid black; padding: 2px; display: inline-block;">03:COUNTRY CODE [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting X: INTL→ GBR →USA
04	Time and date print	<div style="border: 1px solid black; padding: 2px; display: inline-block;">04:TIME/DATE PRINT [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting X: OFF → ONCE → → ALL
05	TSI print	<div style="border: 1px solid black; padding: 2px; display: inline-block;">05:TSI PRINT [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON
06	No toner memory reception	<div style="border: 1px solid black; padding: 2px; display: inline-block;">06:NO TONER MEM. RX [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON
07	TAD mode (For external telephone answering device.)	<div style="border: 1px solid black; padding: 2px; display: inline-block;">07:TAD MODE [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting X: OFF → TYPE1 → → TYPE2
08	Real-time dialling	<div style="border: 1px solid black; padding: 2px; display: inline-block;">08:REAL TIME DIAL [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting X: OFF → TYPE1 → → TYPE2
09	TEL/FAX switching	<div style="border: 1px solid black; padding: 2px; display: inline-block;">09:TEL/FAX SWITCH [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON
10	MDY/DMY format	<div style="border: 1px solid black; padding: 2px; display: inline-block;">10:MDY/DMY [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle) X: MDY ⇄ DMY
11	Long document transmission	<div style="border: 1px solid black; padding: 2px; display: inline-block;">11:LONG DOC. SCAN [X] YES(←) NO(→)</div> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON

Technical Functions 12 to 16 (Table 2.9.2, 2/5)

T.F. No.	Name of Function	The Display Shows
12	Tone for echo (echo protection)	<div style="border: 1px solid black; padding: 5px; display: inline-block;">12:TONE FOR ECHO [X] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> → Setting (Toggle) X: OFF ⇔ ON </div>
13	MH only	<div style="border: 1px solid black; padding: 5px; display: inline-block;">13:MH ONLY [X] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> → Setting (Toggle) X: OFF ⇔ ON </div>
14	High-speed modem rate	<div style="border: 1px solid black; padding: 5px; display: inline-block;">14:H/MODEM RATE [X] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> → Setting X: 4.8k → 9.6k → → 14.4k → 28.8k → 33.6k </div>
15	T1 (TX), timeout value (XTTO value)	<div style="border: 1px solid black; padding: 5px; display: inline-block;">15:T1(TX)T.O. VALUE [X] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> ← To 16: T1(RX) T.O. VALUE X: 010 - 255 sec </div> <div style="text-align: center; margin: 10px 0;">↓ <input type="checkbox"/> →</div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;">T1(TX)T.O. VALUE [060] ENTER 010-255</div> <div style="text-align: center; margin: 5px 0;">↓ 3-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;">15:T1(TX)T.O. VALUE [059] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> → </div> <p>(Example)</p>
16	T1 (RX), timeout value	<div style="border: 1px solid black; padding: 5px; display: inline-block;">16:T1(RX)T.O. VALUE [X] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> ← To 17: T2 T.O. VALUE X: 010 - 255 sec </div> <div style="text-align: center; margin: 10px 0;">↓ <input type="checkbox"/> →</div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;">T1(RX)T.O. VALUE [035] ENTER 010-255</div> <div style="text-align: center; margin: 5px 0;">↓ 3-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;">16:T1(RX)T.O. VALUE [059] YES(←) NO(→)</div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="checkbox"/> → </div> <p>(Example)</p>

Technical Functions 17 to 23 (Table 2.9.2, 3/5)

T.F. No.	Name of Function	The Display Shows
17	T2, timeout value	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: 60%;"> 17:T2 T.O. VALUE [X] YES(←) NO(→) </div> <div style="text-align: right;"> <input type="button" value="←"/> To 18: DIS BIT32 X: 000 - 255 </div> </div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="text-align: center; margin: 5px 0;">↓ <input type="button" value="→"/></div> <div style="border: 1px solid black; padding: 5px; width: 60%; margin: 5px auto;"> T2 T.O. VALUE [000] ENTER 000-255 </div> <div style="text-align: center; margin: 5px 0;">↓ 3-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; width: 60%;"> 17:T2 T.O. VALUE [059] YES(←) NO(→) </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> </div> <p>(Example)</p>
18	DIS bit 32	<div style="border: 1px solid black; padding: 5px; width: 60%;"> 18:DIS BIT32 [X] YES(←) NO(→) </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting (Toggle) X: OFF ⇄ ON </div>
19	Error criterion	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: 60%;"> 19:ERROR CRITERION [X] YES(←) NO(→) </div> <div style="text-align: right;"> <input type="button" value="←"/> To 20: OFF HOOK BYPASS X: 00 - 99% </div> </div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="text-align: center; margin: 5px 0;">↓ <input type="button" value="→"/></div> <div style="border: 1px solid black; padding: 5px; width: 60%; margin: 5px auto;"> ERROR CRITERION [00] ENTER 00-99 </div> <div style="text-align: center; margin: 5px 0;">↓ 2-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; width: 60%;"> 19:ERROR CRITERION [10] YES(←) NO(→) </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> </div> <p>(Example)</p>
20	Off-hook bypass	<div style="border: 1px solid black; padding: 5px; width: 60%;"> 20:OFF HOOK BYPASS [X] YES(←) NO(→) </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting (Toggle) X: OFF ⇄ ON </div>
21	NL equalizer	<div style="border: 1px solid black; padding: 5px; width: 60%;"> 21:NL EQUALIZER [X] YES(←) NO(→) </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting X:0 KM→ 1.8 KM→ →3.6 KM→7.2 KM→0 KM </div>
22	Modem attenuator	<div style="border: 1px solid black; padding: 5px; width: 60%;"> 22:ATTENUATOR [X] YES(←) NO(→) </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting X:0 DB→ 1 DB → 2 DB →..... → 15 DB → 0 DB → </div>
23	T/F tone attenuator (for TEL/FAX switch)	<div style="border: 1px solid black; padding: 5px; width: 60%;"> 23:T/F TONE ATT. [X] YES(←) NO(→) </div> <div style="text-align: right; margin-top: 5px;"> <input type="button" value="→"/> Setting X:0 DB→ 1 DB → 2 DB →..... → 15 DB → 0 DB → </div>

Technical Functions 24 to 27 (Table 2.9.2, 4/5)

T.F. No.	Name of Function	The Display Shows
24	MF attenuator	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 24:MF ATT [X] YES(←) NO(→) </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/> Setting X:0 DB → 1 DB → 2 DB →..... → 15 DB → 0 DB → </div>
25	Ring duration detection time	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 25:RING DURA. *10 MS [X] YES(←) NO(→) </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="←"/> To 26: CML TIMING X: 10 - 99 </div> <div style="text-align: center; margin: 10px 0;">↓ <input type="button" value="→"/></div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;"> RING DURA. *10 MS [10] ENTER 2DIGITS </div> <div style="text-align: center; margin: 5px 0;">↓ 2-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;"> 24:RING DURA. *10 MS [11] YES(←) NO(→) </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/> </div> <p>(Example)</p>
26	CML timing	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 26:CML TIMING *100MS [X] YES(←) NO(→) </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="←"/> To 27: HEAD STROBE X: 01 - 19 </div> <div style="text-align: center; margin: 10px 0;">↓ <input type="button" value="→"/></div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;"> CML TIMING *100MS [01] ENTER 2DIGITS </div> <div style="text-align: center; margin: 5px 0;">↓ 2-digit timer entered.</div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;"> 26:CML TIMING *100MS [03] YES(←) NO(→) </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/> </div> <p>(Example)</p>
27	Head strobe	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 27:HEAD STROBE [X] YES(←) NO(→) </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="←"/> To 28: HEAD WIDTH X:5digits (0/1) </div> <div style="text-align: center; margin: 10px 0;">↓ <input type="button" value="→"/></div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;"> 27: HEAD STROBE [01100] ENTER 0/1 </div> <div style="text-align: center; margin: 5px 0;">↓ 0/1 entered.</div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 0 auto;"> 26:CML TIMING *100MS [01101]YES(←) NO(→) </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <input type="button" value="→"/> </div> <p>(Example)</p>

2.9.4 User's Functions

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

Table 2.9.3 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

User's Functions
Feature Specifications Table 2.9.3 (1/3)

No.	Item	Specifications
1	Auto dial 1) One-touch dial 2) Two-digit dial 3) Keypad dial 4) Chain dial 5) Mixed dial	<p>10 one-touch keys are provided. Maximum. 32 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.</p> <p>Purposes of this alternate location number: 1) Fax dial A fax number is registered as an alternate location number. When a call to the first location number is not answered, the alternate location number will be automatically dialled.</p> <p>45 different codes are provided.</p> <p>Two- digit location code: 01 to 45 Maximum. 32 digits for each location number.</p> <p>With ten-key pad. Maximum. 40 digits for one operation</p> <p>The number of dialling digits can be expanded by chaining any number of the types listed above (Auto Dial Items 1, 2 and 3).</p> <p>Type of dialling can be changed from pulse dial to tone dial halfway in dialling process. The changing point is specified by using the * key.</p>
2	Manual dial	With the (optional) telephone handset.
3	Receive mode 1) Auto receive mode 2) Manual receive mode 3) Telephone/fax automatic switchover	<p>Selectable by key operation.</p> <p>Selectable by key operation.</p> <p>Selectable by key operation. The fax recognizes a fax call from a verbal call as follows:</p> <p>If the fax detects a call with a CNG signal, it starts an automatic document receive operation.</p> <p>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.</p> <p>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.</p> <p>* FP + 10 (To determine the timer.)</p> <p>Note: Refer to TEL/FAX Mode Flow Chart</p>

Feature Specifications Table 2.9.3 (2/3)

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 2.9.12 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.</p>
6	Group dial	<ul style="list-style-type: none"> • 5 dialling groups Maximum. 55 locations. <p>Grouping some one-touch keys and some two-digit auto dial codes to which telephone numbers have been assigned. This group setting makes broadcast operation simple.</p>
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 two-digit dial codes, 01 to 45 for OKIOFFICE 44.</p> <p>This name is called a location ID.</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"> (1) Search based on the first character specified. (2) Searching by displaying all registered location IDs one after another in the lexicographical order. <p>Location ID: Maximum. 15 characters</p>
8	Voice request	<p>A voice request from the transmitter is available only upon completion of the total message transmission.</p> <p>A voice request from the receiver is available at the end of each page being received.</p>
9	Local copy	<p>Printing resolution:</p> <ul style="list-style-type: none"> Horizontal: 300 dpi Vertical: 7.7 or 15.4 line/mm or variable
10	Multiple local copy	<p>Up to 50 copies</p>
11	Manual loading feeder	<p>One single sheet from the feeder above the first recording paper cassette can be copied.</p> <p>Example of sheets: Transparency for an overhead projector</p>

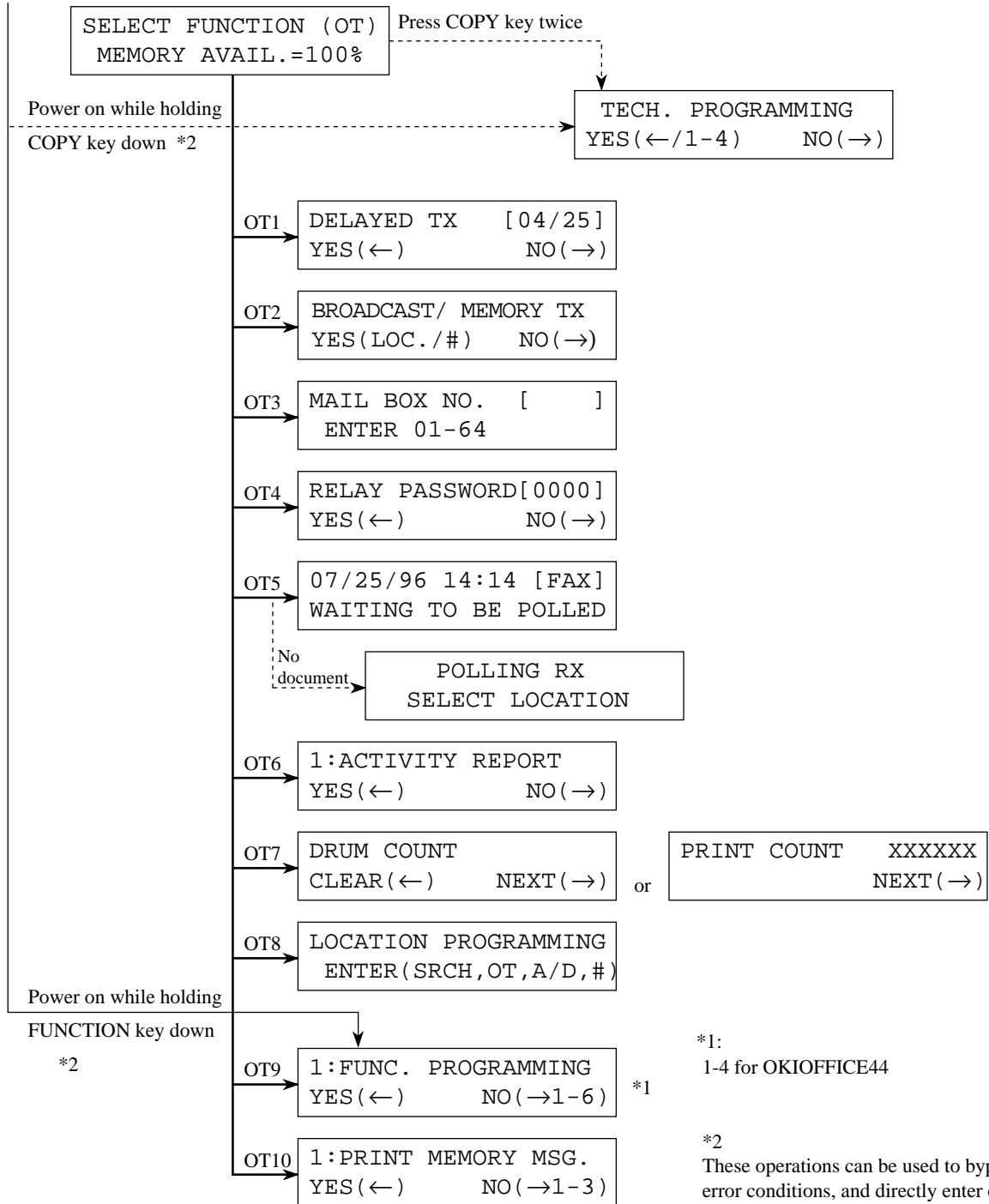
Feature Specifications Table 2.9.3 (3/3)

No.	Item	Specifications
12	Broadcast (Memory transmission)	<p>A maximum of 56 remote locations can be specified by the following means:</p> <ul style="list-style-type: none"> • One-touch keys (with of without a group list). • Two-digit auto dial codes. • 1 keypad dial number <p>One delayed time of calling for this feature can be specified unless any other delayed calling feature has been specified.</p> <p>One delayed broadcast and one immediate calling of broadcast is possible with the OKIOFFICE 44.</p> <p>When multiple locations are specified for one broadcast</p> <ol style="list-style-type: none"> (1) The OKIOFFICE 44 prints a broadcast entry report, if specified in operating sequence. (2) The OKIOFFICE 44 can print a broadcast confirmation report. (FP + 02 To enable or disable this printout)
13	Delayed transmission from the memory	<p>The fax can automatically transmit documents at one specified time for OKIOFFICE 44</p>
14	Polling transmission (To be polled)	<p>Document(s) placed on the feeder can be collected by a remote station.</p>
15	Polling reception	<p>The fax can collect documents from one remote station.</p>
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. 10 under the LCD message "MSG. IN MEMORY/REPLACE TONER CART." in the standby mode.</p> <p>* TF + 06 (To enable or disable this function)</p>
18	Smooth printing	<p>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.</p>
19	Not Used	

One-Touch Key Program Settings (Flowchart)

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

POWER ON



One-Touch Key Program Settings [Table 2.9.4] (1/4)

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.																
2	Broadcast/memory transmission	<p>To make a one-time selection of the memory transmission mode.</p> <p>Max. 56 remote locations can be specified by the following means:</p> <ul style="list-style-type: none"> • One-touch key (with of without a group list) • Two-digit auto dial code • Keypad dial number <p>When multiple locations are specified for one broadcast,</p> <ol style="list-style-type: none"> 1) The fax can print a broadcast confirmation report, if specified in operating sequence. 																
3	Confidential transmission	<p>To program the mail box number 01 to 64.</p> <p>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 1050:</td> <td>01 to 08</td> </tr> <tr> <td>OKIFAX 2300:</td> <td>01 to 16</td> </tr> <tr> <td>OKIFAX 2350:</td> <td>01 to 08</td> </tr> <tr> <td>OKIFAX 2450:</td> <td>01 to 16</td> </tr> <tr> <td>OKIFAX 5300:</td> <td>01 to 08</td> </tr> <tr> <td>OKIFAX 5600:</td> <td>01 to 16</td> </tr> </table>	OKIFAX 2400/2600:	01 to 40	OKIFAX 1000:	01 to 16	OKIFAX 1050:	01 to 08	OKIFAX 2300:	01 to 16	OKIFAX 2350:	01 to 08	OKIFAX 2450:	01 to 16	OKIFAX 5300:	01 to 08	OKIFAX 5600:	01 to 16
OKIFAX 2400/2600:	01 to 40																	
OKIFAX 1000:	01 to 16																	
OKIFAX 1050:	01 to 08																	
OKIFAX 2300:	01 to 16																	
OKIFAX 2350:	01 to 08																	
OKIFAX 2450:	01 to 16																	
OKIFAX 5300:	01 to 08																	
OKIFAX 5600:	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)</p> <p>Up to 99 locations.</p> <p>To program relay password.</p> <p>To enable or disable the relay report.</p>																
5	Polling transmission/reception	<p>Polling TX: The documents placed on the feeder can be collected by a remote station.</p> <p>Polling RX: The fax can collect documents from one remote station.</p>																
6	Report printing	<ol style="list-style-type: none"> 1. Activity report 2. Broadcast message confirmation report (Multi location) 3. Phone directory report 4. Configuration report (Serviceman report if service bit sets to ON.) 5. Protocol dump report <ul style="list-style-type: none"> * TF + 01 (Sets to on Service bit) <p>Log. report</p> <ul style="list-style-type: none"> * TF + 01 (Sets to on Service bit) 																

One-Touch Key Program Settings Table [2.9.4] (2/4)

F+OT No.	Item	Specifications
7	Counter display (clear)	<p>The operation for displaying and clearing the print counters in five ways are as follows:</p> <ol style="list-style-type: none"> 1. Drum counter <ul style="list-style-type: none"> * User can clear, but cannot read counter number 2. Toner counter <ul style="list-style-type: none"> * TF + 01 (Sets to on Service bit) 3. Drum (total) continue <ul style="list-style-type: none"> * TF + 01 (Sets to on Service bit) 4. Print counter <ul style="list-style-type: none"> * User can read no. of counter in LCD but can not clear. 5. Scan counter <ul style="list-style-type: none"> * User can read no. of counter in LCD but can not clear.
8	<p>Location program</p> <ol style="list-style-type: none"> 1. One-touch key 2. Two-digit auto dial program 3. Group setting 	<p>One-touch keys allow registering:</p> <ol style="list-style-type: none"> (1) Telephone number (numeral, -, P and space) in 32 digits. (2) Alternate fax telephone number in 32 digits. (additional registration) (3) ID for the telephone directory function in 15 characters (alphabetic, numeric and symbolic). (One ID can be registered for one key). (4) 10 one-touch keys are provided <p>Auto-dial No. 01 to 45 allows registering telephone number in 32 digits (numeral, -, P and space) and ID for the telephone directory function 15 characters (alphabetic, numeric and symbolic).</p> <p>Grouping some one-touch keys and some two-digit auto dial codes to which telephone numbers have been assigned. This group setting makes broadcast operation simple.</p> <p>Five dialling groups are available for the OKIOFFICE 44</p>

One-Touch Key Program Settings [Table 2.9.4] (4/4)

F+OT No.	Item	Specifications
9	<p>(continued from previous page)</p> <p>4. System data program</p> <p>5. Not Used</p> <p>6. Not Used</p>	<p>(1) TSI/CSI Registration of TSI/CSI/CIG (numbers, + and space) in 20 digits. TSI: Transmitting Subscriber Identification CSI: Called Subscriber Identification CIG: Calling Subscriber Identification</p> <p>(2) SENDER ID Registration of sender ID (alphabetic, numeric and symbolic) in 32 digits.</p> <p>(3) CALL BACK NO. Registration of telephone number for cover letter (alphabetic, numeric and symbolic) in 20 digits.</p>
10	<p>Print operation</p> <p>1. Substitutive message print</p> <p>2. Not Used</p> <p>3. Printer cleaning</p>	<p>Used to print messages stored in memory during toner low condition..</p> <p>Also used to print messages received in memory when RX Mode is set to MEM RX.</p> <p>The messages are printed when toner has been newly supplied or an operator performs the substitutive operation.</p> <p>When memory reception data exists in the memory and the MEMORY RX MODE is indicated by AUTO REC key operation for OKIOFFICE 44 machine will print out the memory reception data.</p> <p>When print quality becomes questionable, this drum cleaning function removes the residual toner on the image drum. The residual toner is removed by printing.</p> <p>This operation should be performed before any hardware replacements are considered.</p>

Function Program

User Function Program Settings Table 2.9.4 (1/4)

P.F. No.	Item	Specifications	Default
01	Message confirmation report (Single location)	Enables or disables the automatic message confirmation report printing after a single location call. ON: Printing the MCF report. OFF: Disables this function.	OFF
02	Message confirmation report (Multiple locations)	Enables or disables the automatic message confirmation report printing after a multiple polling or broadcast. ON: Prints the MCF report. OFF: Disables this function.	ON
03	Error report (MCF)	Enables or disables the automatic error report printing when transmission error occurs. (Excepts for service bit "0".) ON: Printing the error report. OFF: Disables this function.	ON
04	Image in MCF	Enables or disables the automatic printing of the image on the first sheet below the message confirmation report. ON: Printing the image in MCF report. (Memory transmission only) OFF: Disables this function.	ON
05	Sender ID	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. * (Outside only) ON: Enables OFF: Disables	ON
06	Line monitor volume	Controls the volume. Settings: OFF Low High	LOW
07	Buzzer volume	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. Settings: Low Mid High. Note: Fixed a low level for key touch tone.	MID

User Function Program Settings Table 2.9.4 (2/4)

P.F. No.	Item	Specifications	Default
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 two-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) TSI: Transmitting subscriber identification CSI: Called subscriber identification</p>	OFF
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→FINE/NORMAL→FINE/DARK→FINE/LIGHT→EX.FINE/NORMAL→EX.FINE/DARK→EX.FINE/LIGHT→PHOTO/NORMAL→PHOTO/DARK→PHOTO/LIGHT→STD/NORMAL→•••</p>	STD/ Normal
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 2-36</p>	35 sec.
11	Ring response time	<p>User can register ring response time if National code is: INT'L, GBR, NOR, SWE, USA, HOL, ESP. ITA, GRE or GER</p> <p>Selects the ring response time.</p> <p>1 ring/5/10/15/20 sec. selectable.</p>	1 ring
12	Distinct ring	<p>Specifies the detected distinct ring.</p> <p>OFF/ON/SET selectable.</p>	OFF
13	1'st cassette paper size	<p>Selects A4, LETTER or LEGAL 13", LEGAL 14"/OTHER (when installing Bi-Centro board) by this function.</p> <p>The operator must select the preferable paper size as the machine cannot detect the paper size automatically.</p>	LETTER

User Function Program Settings Table 2.9.4 (3/4)

P.F. No.	Item	Specifications	Default
14	Not Used		
15	User language	A choice of 2 languages for LCD and print message are available.	ENG
		ENG (English) and Spanish/French/Portuguese	
16	Incoming ring	Instead of ringer circuit, software can control built-in speaker to ring sound. To enable (ON) or disable (OFF) or distinctive ring (DRC) a software generated ring sound to indicate arrival of an incoming bell.	ON
17	Remote receive This function also used for TAD Mode.	This function is used to transfer the call received by external telephone (connected to fax) by entering preset two-digits. The following combinations are selectable. 00/11/22/33/44/55/66/77/88/99/**/##/OFF selectable. Switches the transmission mode between the memory and feeder.	OFF
18	Memory and feeder switch	MEM. TX/FEEDER TX selectable. <i>Note:</i> Memory or feeder setting can register as the default by operating the "F + OT 2".	FEEDER TX
19	Not Used		
20	ECM function	Enables or disables ECM (error correction mode) communication. ON: Enables OFF: Disables	ON
21	Remote diagnosis	Enables or disables the remote diagnosis function when the machine can allow remote diagnosis from remote center. ON: Enables OFF: Disables	

User Function Program Settings Table 2.9.4 (4/4)

P.F. No.	Item	Specifications	Default
22	PC/FAX switch	<p>When the host side does not respond at the time of incoming call to PC, specifies whether to starts forcibly as fax reception or not.</p> <p>ON: Enables OFF: Disables</p> <p><i>Note:</i> When the Bi-Centro board is installed on the fax, PC/FAX switching mode appears in the LCD display.</p>	ON
23	One-touch key parameters	<p>To assign the following features to each one-touch key.</p> <p>1) Echo protection (ON/OFF)</p>	OFF

2.9.5 User's Functions Example

Function Program

Operations:

- To begin, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode.
(when no message is 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 - 4)

or

FUNCTION NO . []
ENTER 01 - 23

To an individual setting item.
(See Table 2.9.5)

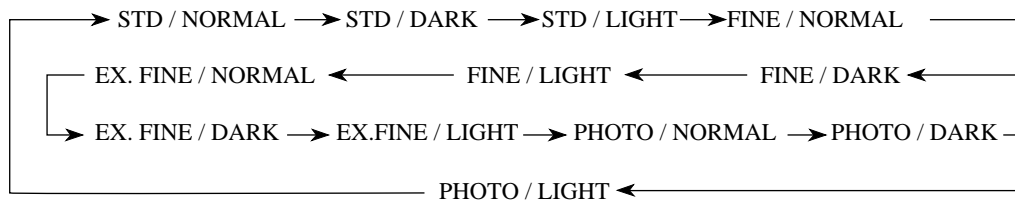
User's Functions Table 2.9.5 (1/2)

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

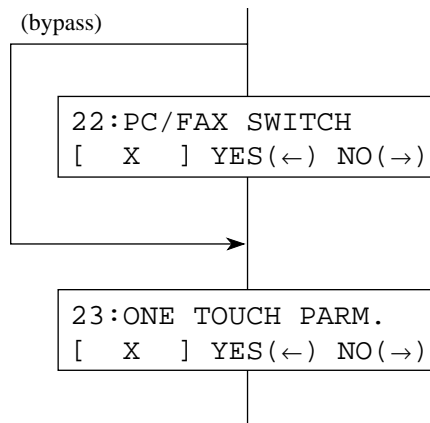
User's Functions Table 2.9.5 (2/2)

Tap No.	Name of Function	The Display Shows
1 3	1st cassette paper size	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 13:1'ST PAPER SIZE [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting </div> <p style="text-align: center;"> X: A4 → LET → LGL 13 → LGL 14 → OTHER ← </p>
1 4	Not used	
1 5	User language	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 15:USER LANGUAGE [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting X: ENG. ⇄ (Other) </div>
1 6	Incoming ring	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 16:INCOMING RING [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle) X: OFF → ON → DRC </div>
1 7	Remote receive	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 17:REMOTE RECEIVE [X] YES(←) NO(→) </div> <p style="text-align: center;"> OFF → 11 → 22 → 33 → 44 55 → 77 → 88 → 99 → ## ← ** ← </p>
1 8	Memory and feeder selection	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 18:MEM/FEEDER SW. [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting X: MEM. ⇄ FEED. </div>
1 9	Not used	
2 0	ECM function	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 20:ECM FUNCTION [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON </div>
2 1	Remote diagnosis	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 21:REMOTE DIAGNOSIS [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON </div>
2 2	PC/FAX switch	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 22:PC/FAX SWITCH [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON </div> <p style="text-align: right;">NOTE 4:</p>
2 3	One-touch key parameters	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 23:ONE TOUCH PARAM. YES(OT) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> To: FUNCTION NO. </div> <p style="text-align: center;">One-touch key pressed.</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 20px;"> ECHO PROTECTION [X] YES(←) NO(→) </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Setting (Toggle) X: OFF ⇄ ON </div>

Note 1: RESOLUTION & ORIGINAL of TX mode default setting can be selected by using → key (while documents are loaded in the ADF).



Note 4: When the CTR board is not mounted, the PC/FAX switch is bypassed as follows:



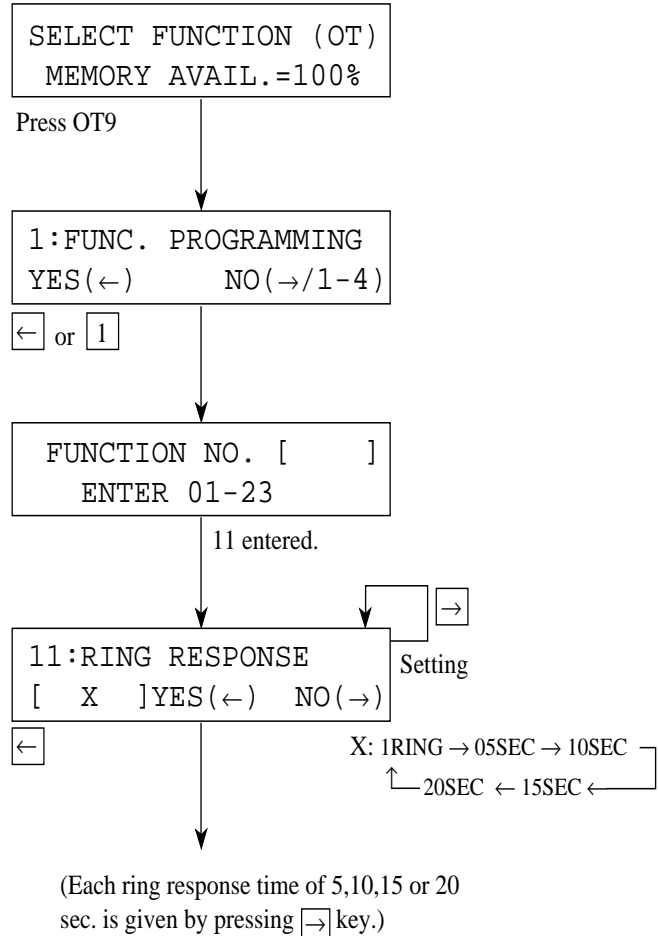
Ring Response Time

Before specifying the ring response time, set the service bit on following the operations shown in 2.9.3 (1). (Service Bit Setting).

Operations:

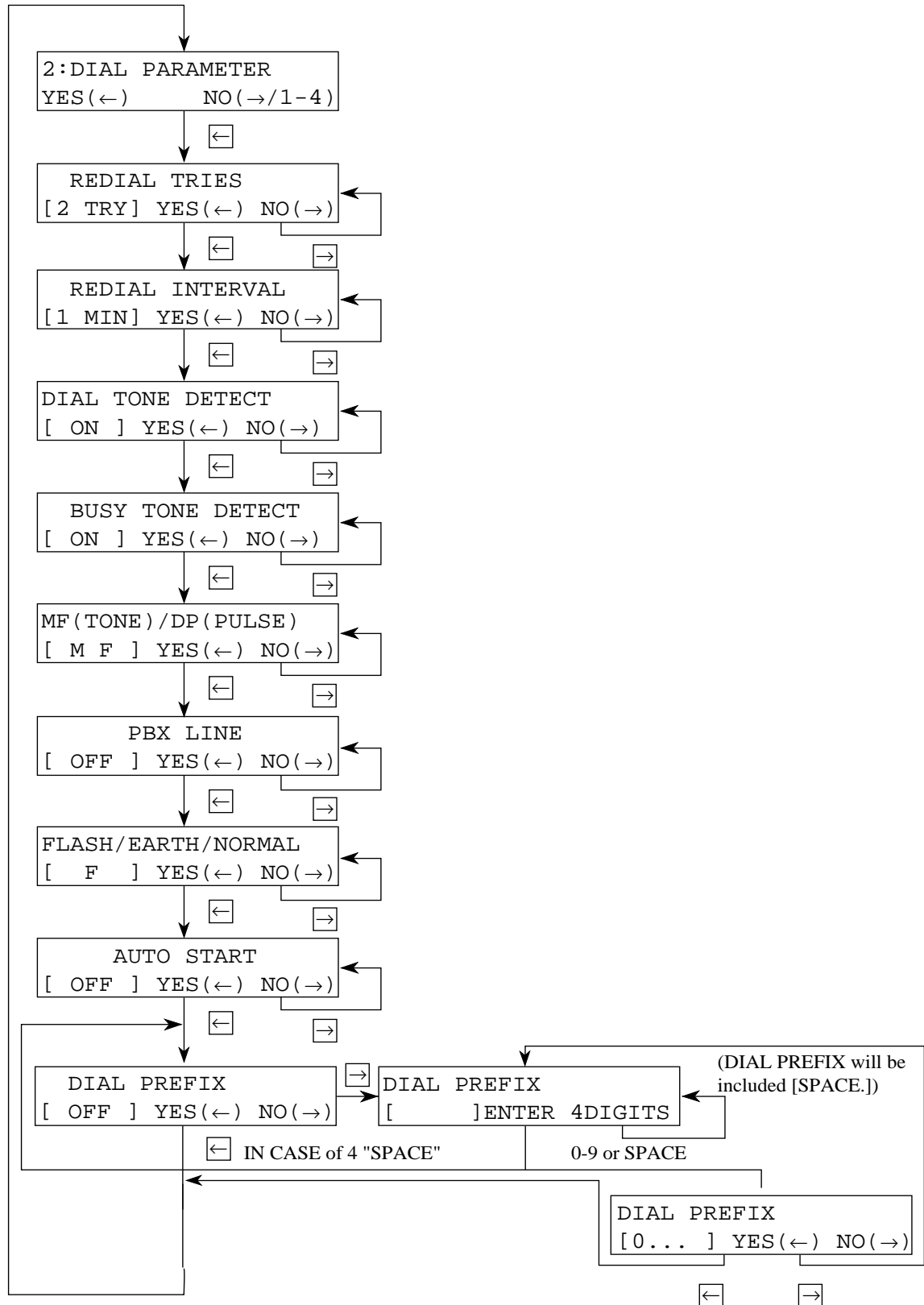
- To begin, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode (when no message is in memory).
- Press key enter using the ten-key pad.
- Enter 11 using the ten-key pad.
- Press key until the setting you want is displayed, then press key.

The display shows:



Dial Parameters (Service Bit "OFF")

To get the "DIAL PARAMETER" message on the display, perform the operation in Table 2.9.6., Dial parameters settings.

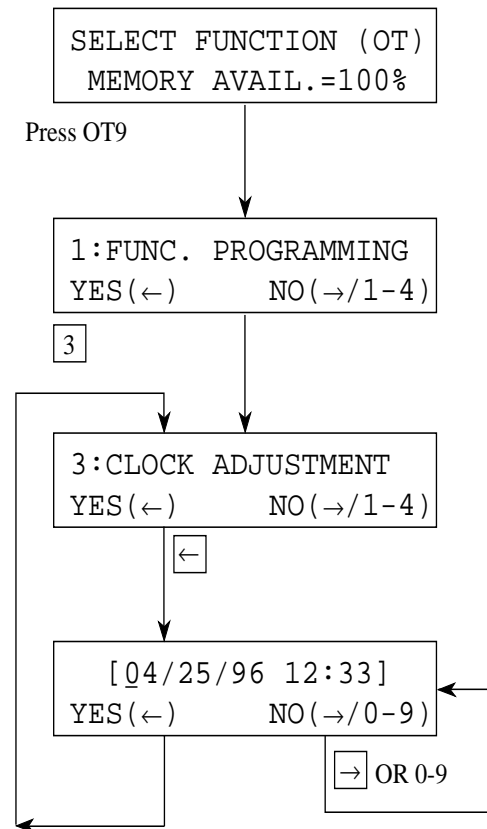


2.9.6 Clock Adjustment

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:



2.9.7 Dual Access Operation

This feature is not available with the OKIOFFICE 44.

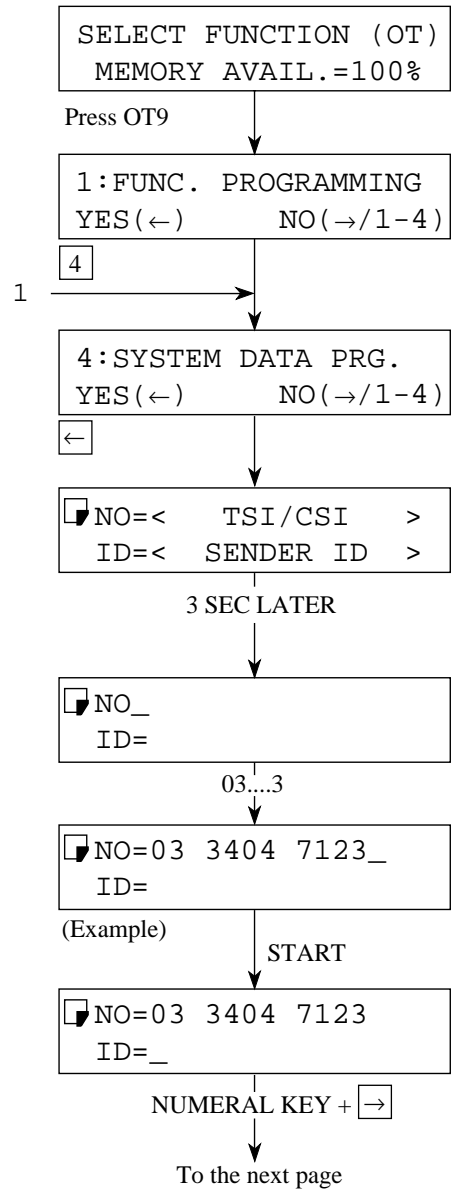
2.9.8 System Data Programming

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

Operations:

- To begin, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode.
(with no message in memory)
- Enter 4 using the ten-key pad.
- Press key.

The display shows:



Note: Use the UNIQUE key to input special symbols.

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

2.9.9 Dial Parameters Settings

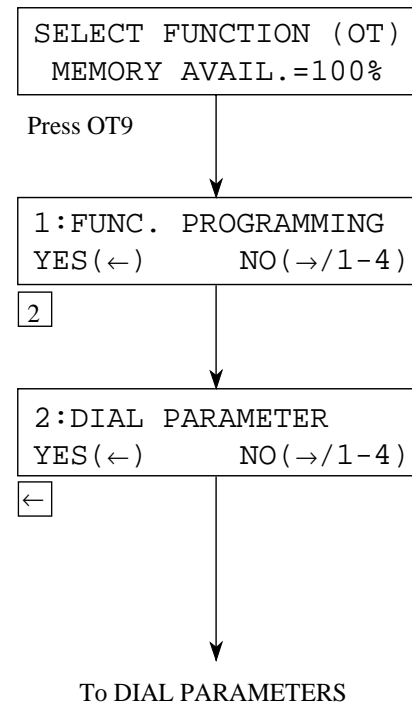
Procedure

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

Operations:

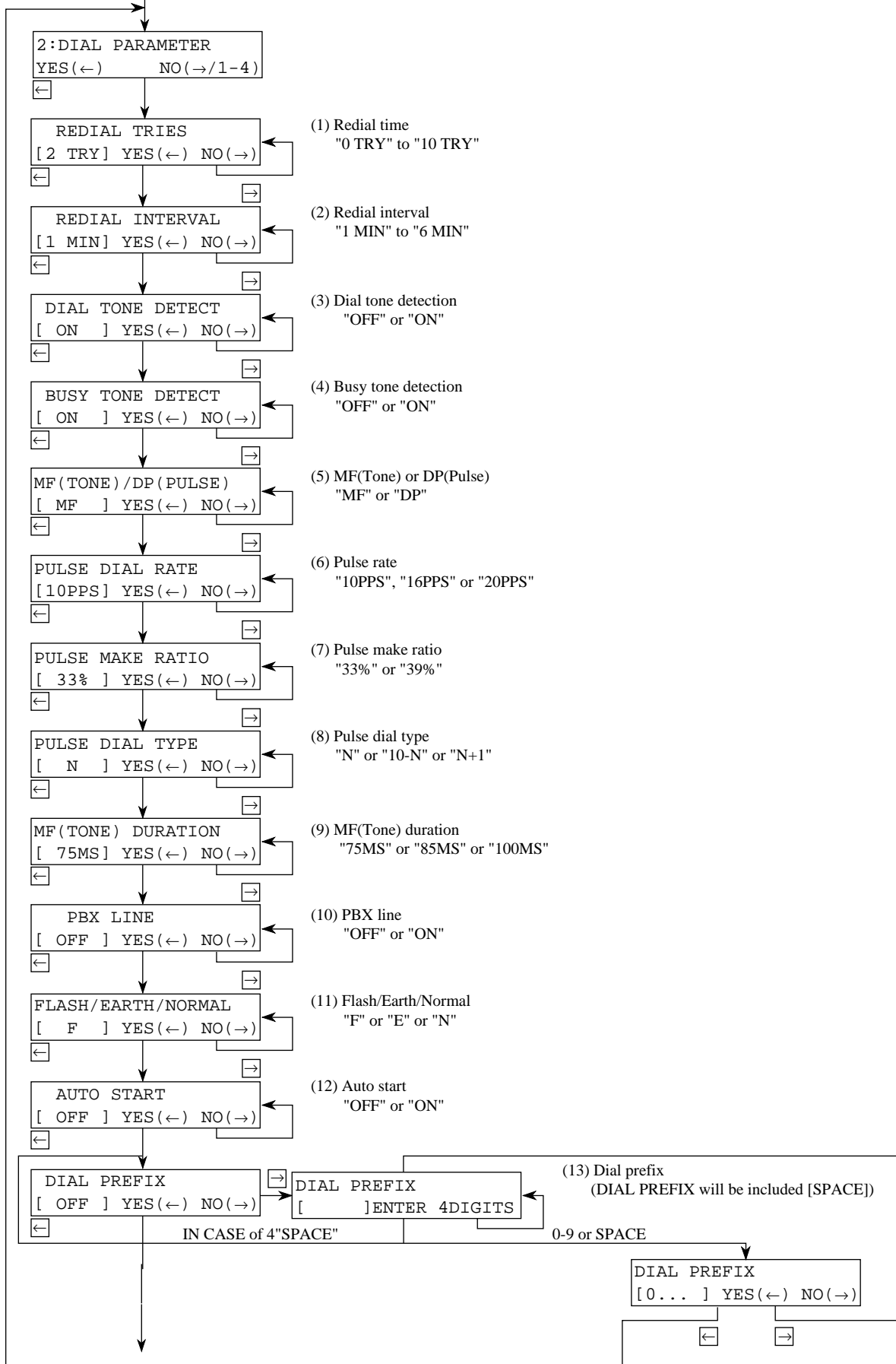
- To begin, press SELECT FUNCTION key once and one-touch key No. 9 in the standby mode.
(with no message in memory)
- Enter 2 using the ten-key pad.
- Press key.

The display shows:



The display shows:

Continued from the previous page.



2.9.10 Off-line Tests

Purpose

Activate self-diagnosis which includes:

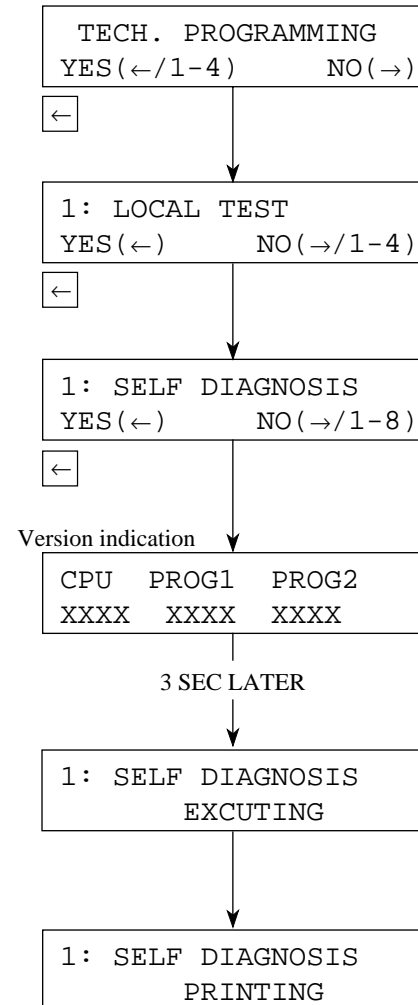
- Print test
- CPU-ROM version printing
- CPU-RAM check
- PROG version printing
- LANGUAGE version printing
- DEFAULT version printing
- RAM check
- RAM check (memory board: optional)
- PC-I/F version printing (optional)

Procedure

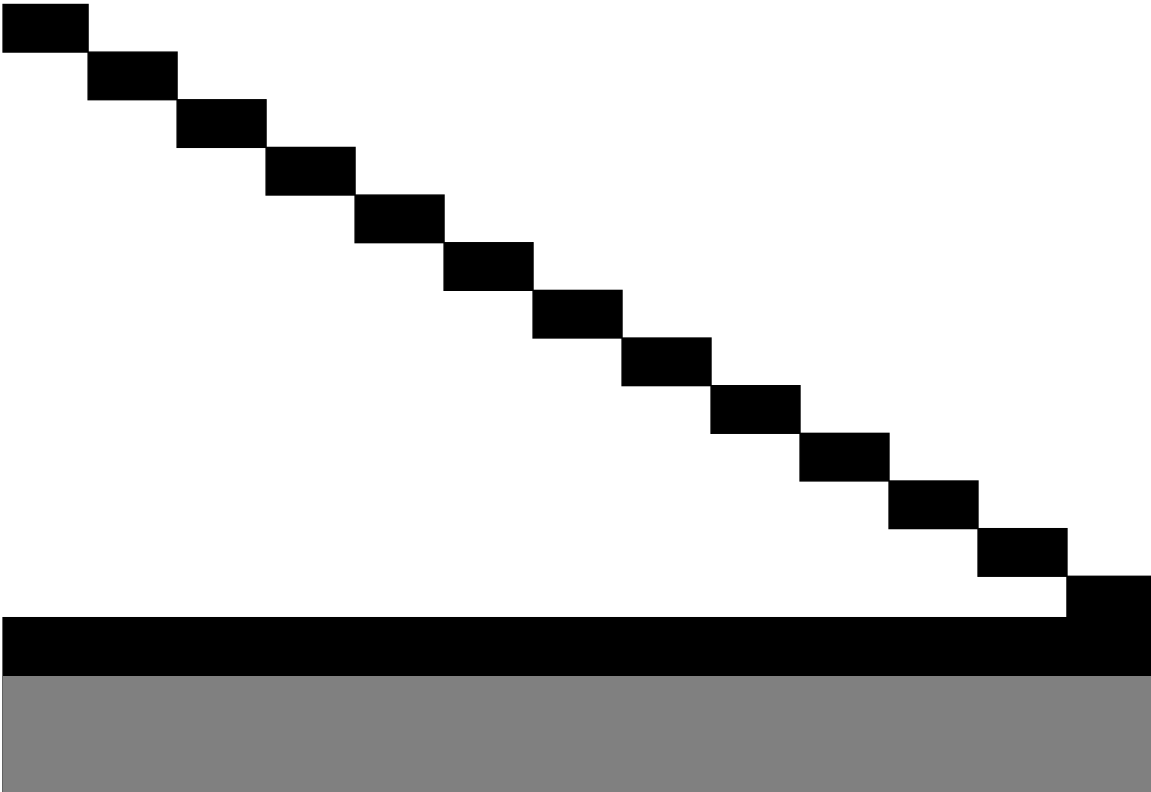
Operations:

- 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 2.9.4)

The display shows:



Self-Diagnosis Print Test (Example) Figure 2.9.4



```
CPU-ROM  VERSION  AA00
          HASH     OK   DACD
CPU-RAM
PROG1    VERSION  AA00
          HASH     OK   3142
PROG2    VERSION  AA00
          HASH     OK   1234

LANGUAGE VERSION  LL10
          HASH     OK   3F06
DEFAULT  VERSION  DD10
          HASH     OK   A683
*1 RAM1
*2 OPT-RAM1      1M   OK
*2 OPT-I/F      PARALLEL
DEFAULT TYPE    01   07/01/96
```

*1 marked item is shown for condition of all RAM except EXCEED RAM.

*2 marked items are options.

2.9.11 On-line Tests

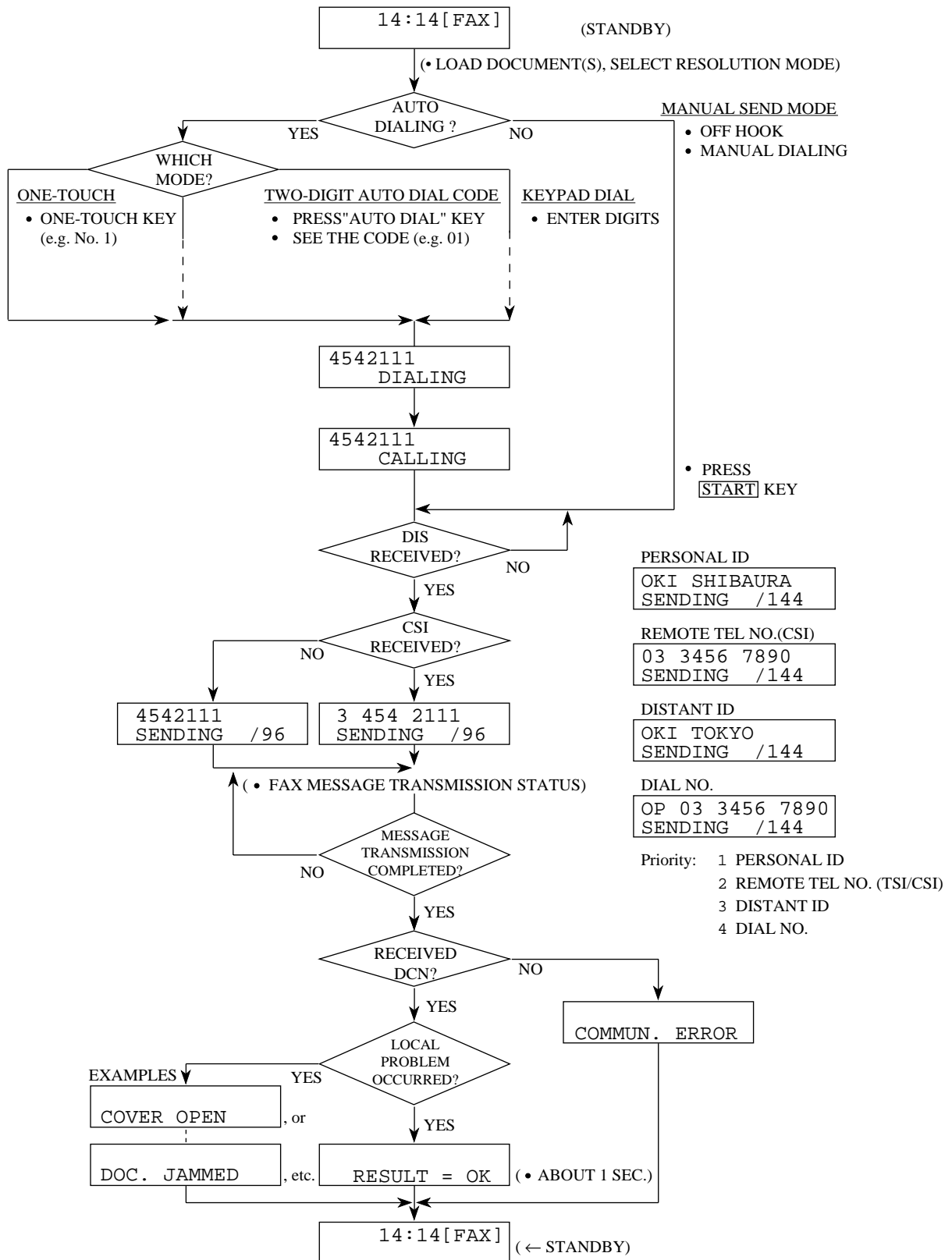
Transmission

- (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 2.9.5.

Reception

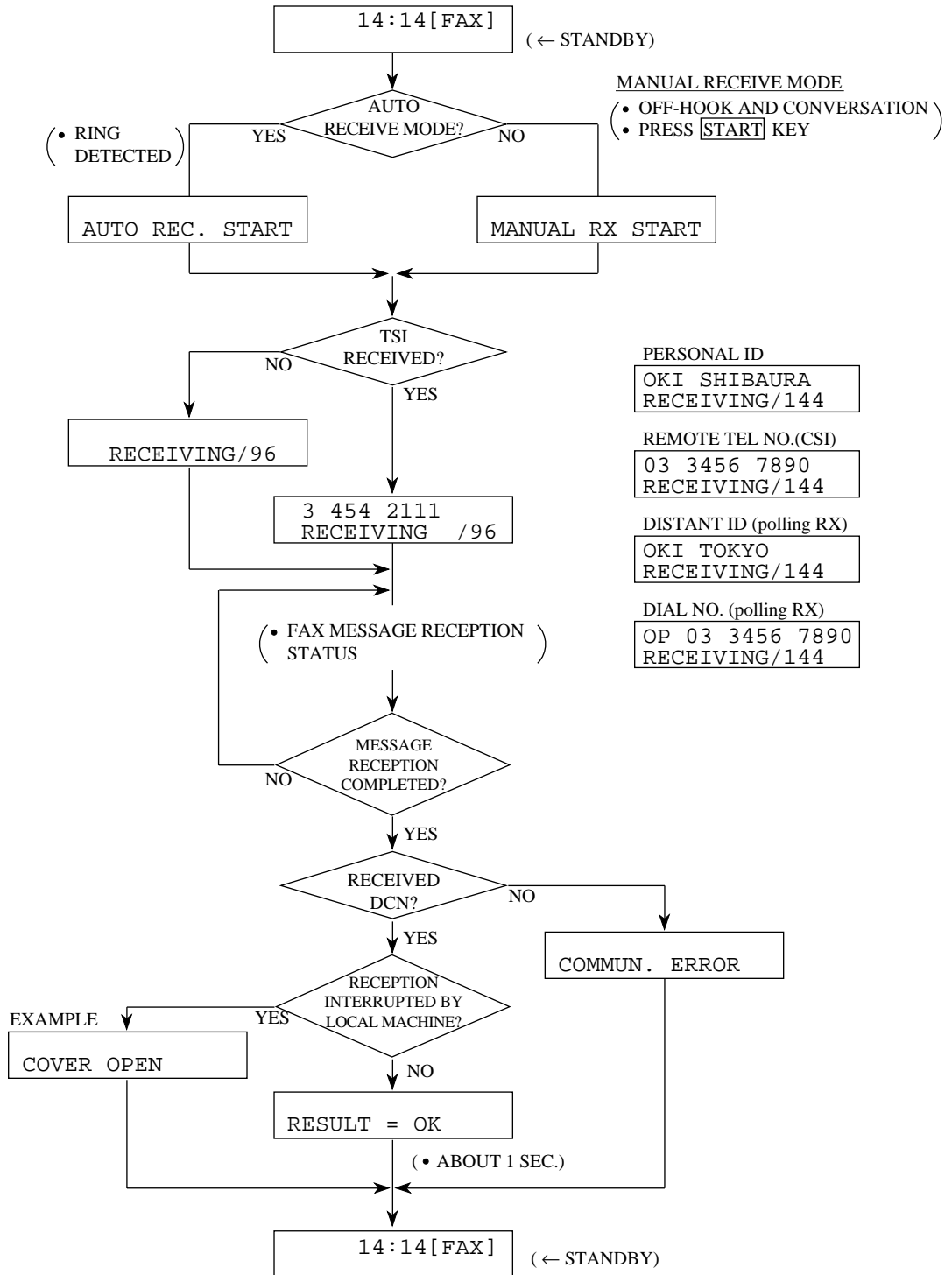
- (1) Use another machine for dialling.
- (2) Make sure that
 - The display shows AUTO REC. START.
 - The message is automatically received.
- (3) Typical message reception flow is described in Figure 2.9.6.

Typical Transmission Flow (Fig. 2.9.5)



FX050-C2-021

Typical Reception Flow (Fig. 2.9.6)



FX050VP-C2-022

2.9.12 Installation of Optional Units

Items

- Memory board
- PC interface board
- Telephone handset

Procedure

Note: Unplug the AC power cord from the wall outlet first and then from the facsimile.

- Detach the AC power cord to power OFF the unit.
- Do not remove unnecessary parts.
- Since screws and small parts are likely to be lost, they should temporarily be attached to their original positions.

Memory Board Installation

- In the OKIOFFICE 44, the MEM memory board is mounted on to the connector CN13 of R44 board.

Installation

Remove Cover-rear
Remove the Cover-rear by removing the screw 1.

Remove PC Interface (CTR PCB), if installed.

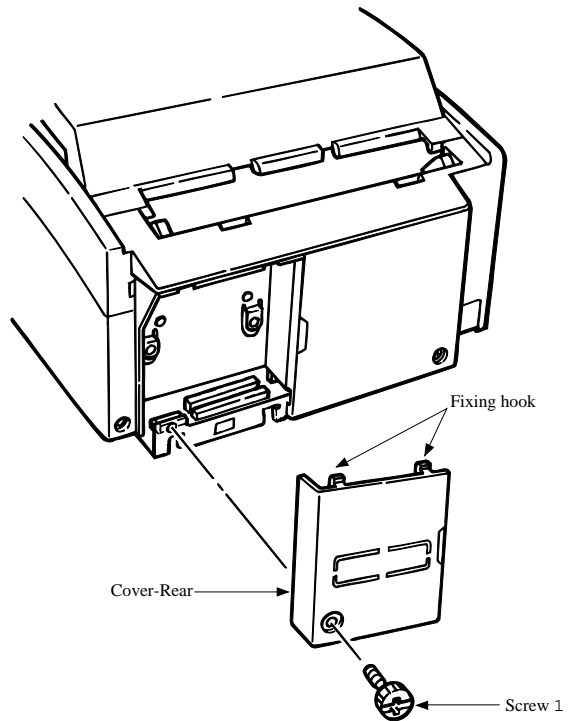


Fig. C.1.1

Install Memory Board:
First, install the memory board on to the connector CN13 of R44 board, and then tighten the two screws to the separation plate.

Then, re-install the CTR PCB (if used).

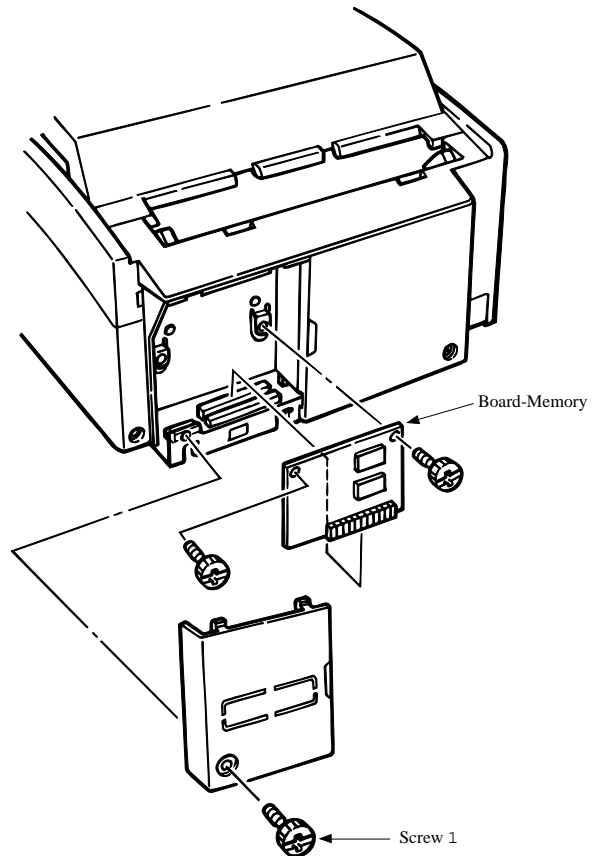


Fig. C.1.2

CTR (PC interface) Board Installation

- (1) Remove Cover-rear.
Remove the Cover-rear by removing the screw 1.

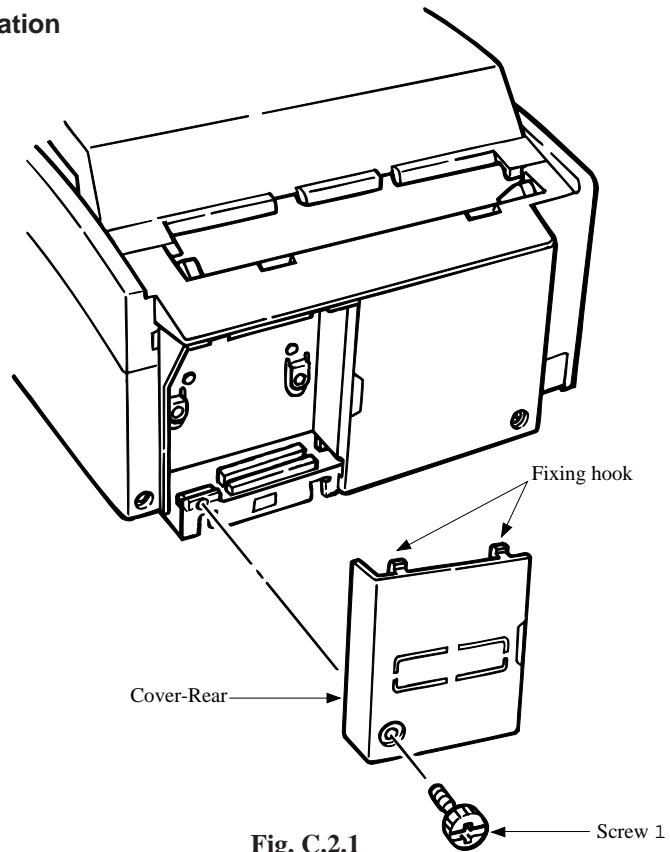


Fig. C.2.1

Install CTR board.
First, install CTR board on to the connector CN11, CN12 of R44 board, and then tighten the two screws to the separation plate.

Push fit the plate-earth (PC I/F)

Note: Insert the tip of a cutter or nipper between the mold of Cover-Rear and cut it out.

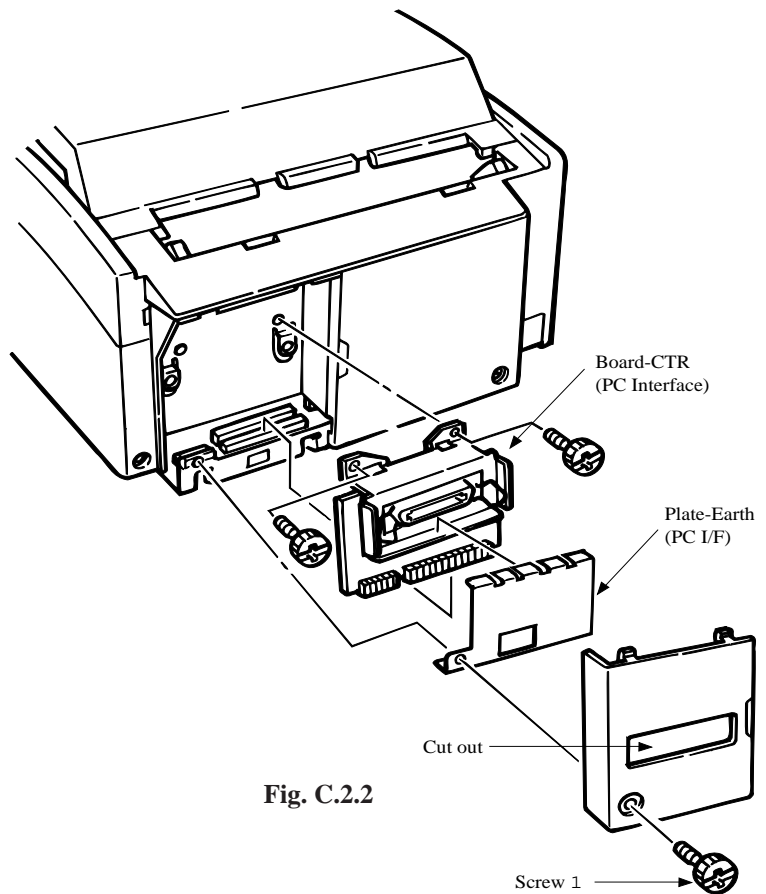


Fig. C.2.2

Optional Telephone Set Installation

- (1) After having taken out the telephone set, telephone handset and curled cord from the carton box, connect them(Fig. C.3.2).

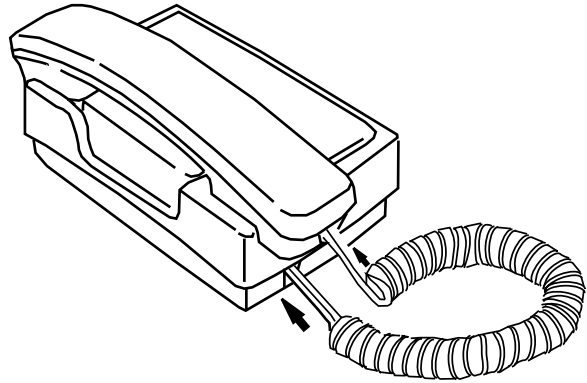


Fig. C.3.2

- (2) After installing the connection cable to the telephone set, extend the connection cable (Fig. C.3.3).

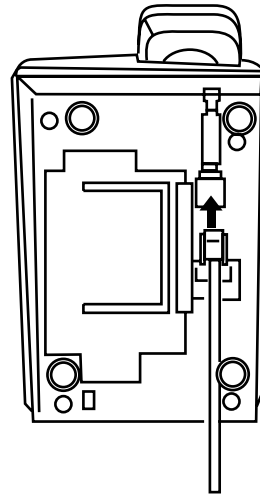


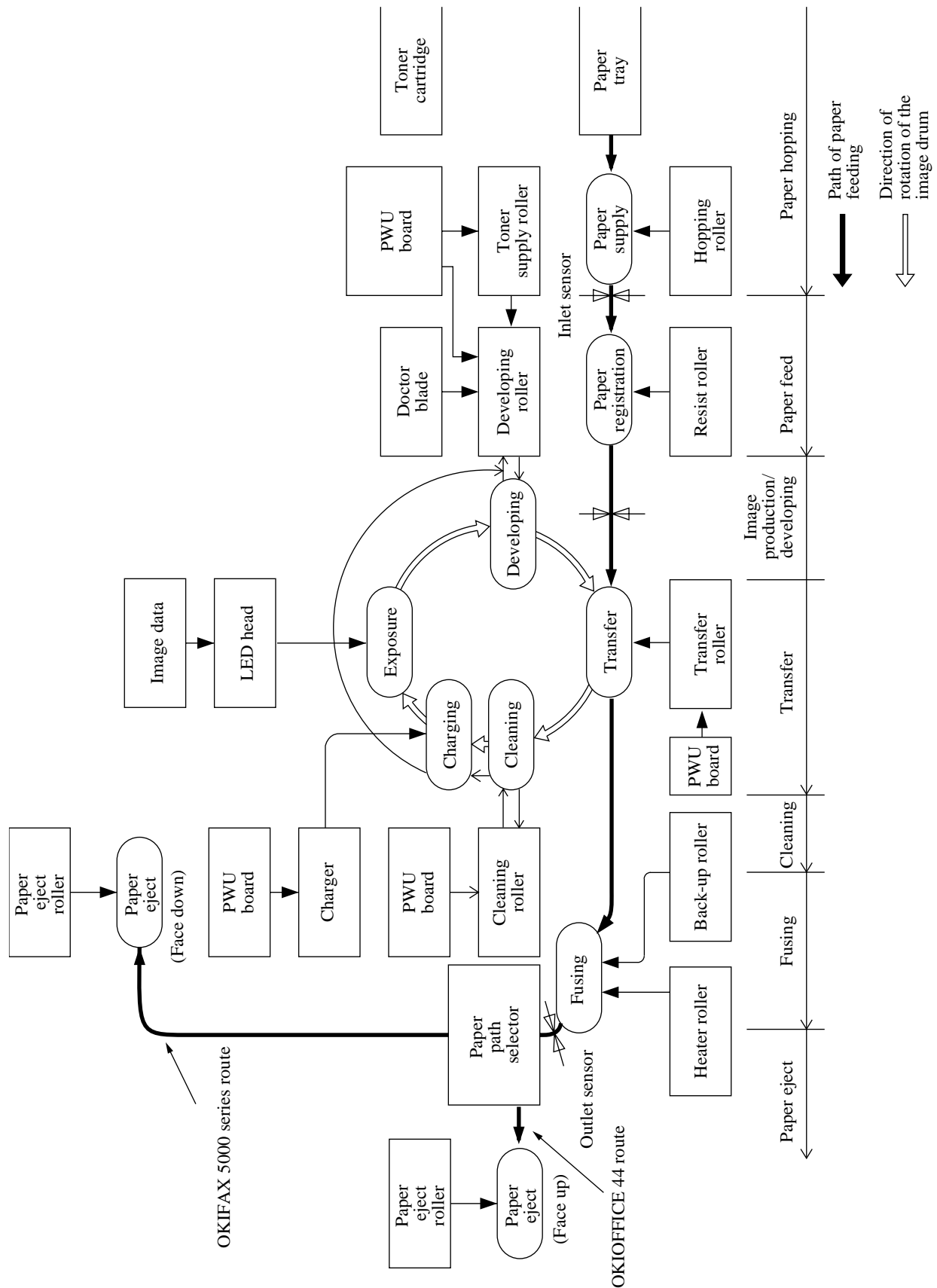
Fig. C.3.3

- (3) Connect the terminal on the other side of the connection cable to the back of the unit, to the telephone set.

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Section 3: Brief Technical Description

Electrophotographic Process Flow

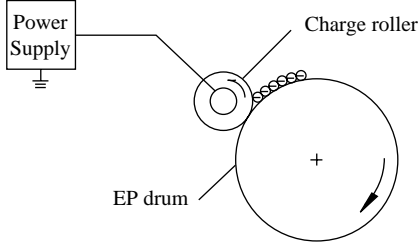
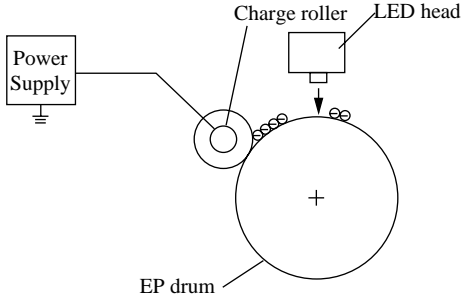
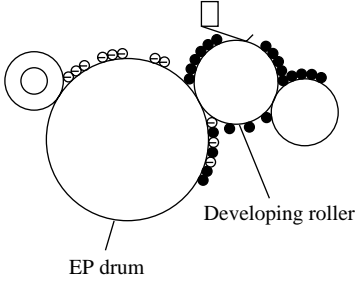


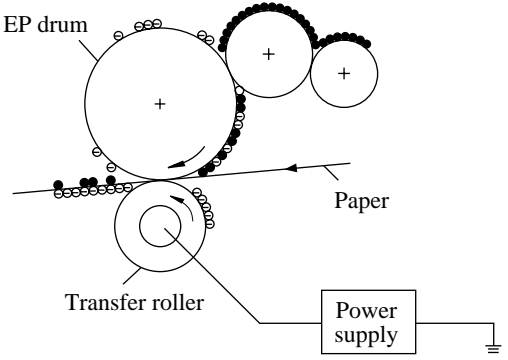
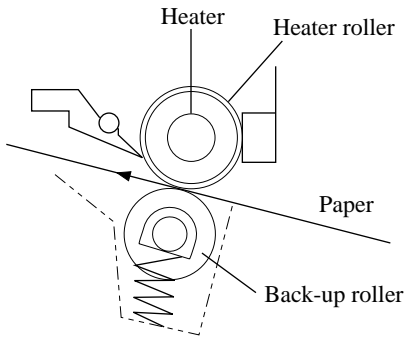
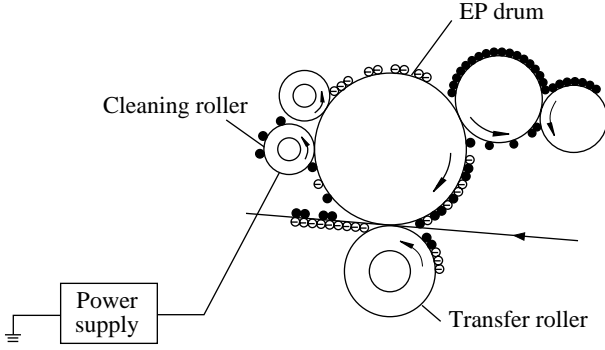
3.1 Fundamentals of the Electro-Photographic Process

The electro-photographic process involves six sub-processes:

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

Each process is briefly 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 electrophotographic 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>

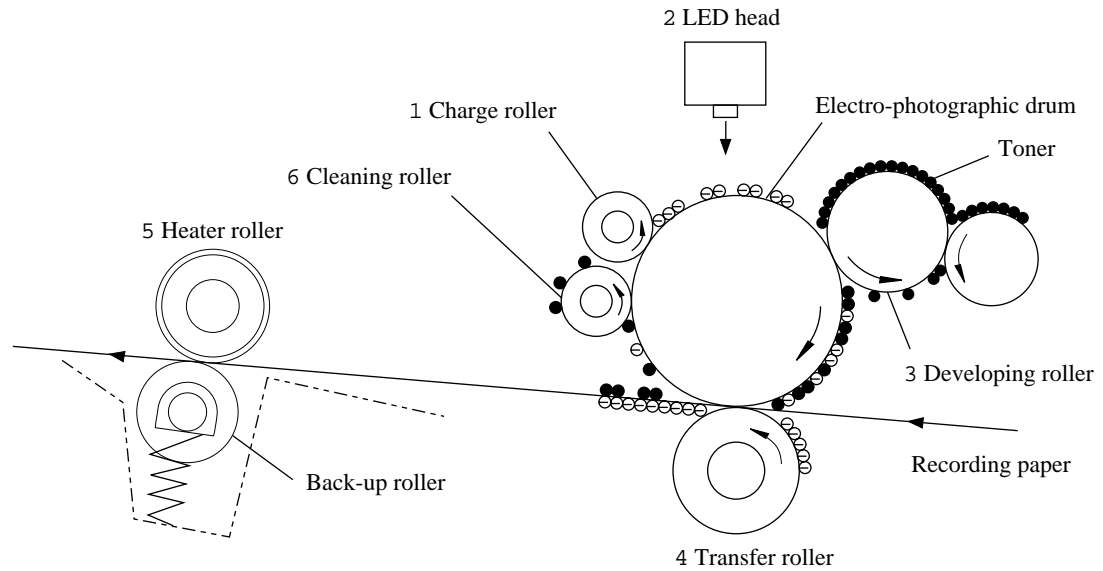
Process	Illustration	Description
<p style="text-align: center;">4</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Transfer</p>		<p>The recording paper is placed over the Image drum surface and a positive charge, opposite in polarity to the toner, is applied to the reverse side of 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 style="text-align: center;">5</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">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 style="text-align: center;">6</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">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>

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3.2 Actual Electrophotographic Process

The electrophotographic process of the unit consists of six essential processes.

The following Figure 3.2.1 provides a general description.



* Process:

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

Figure 3.2.1 Actual EP Process

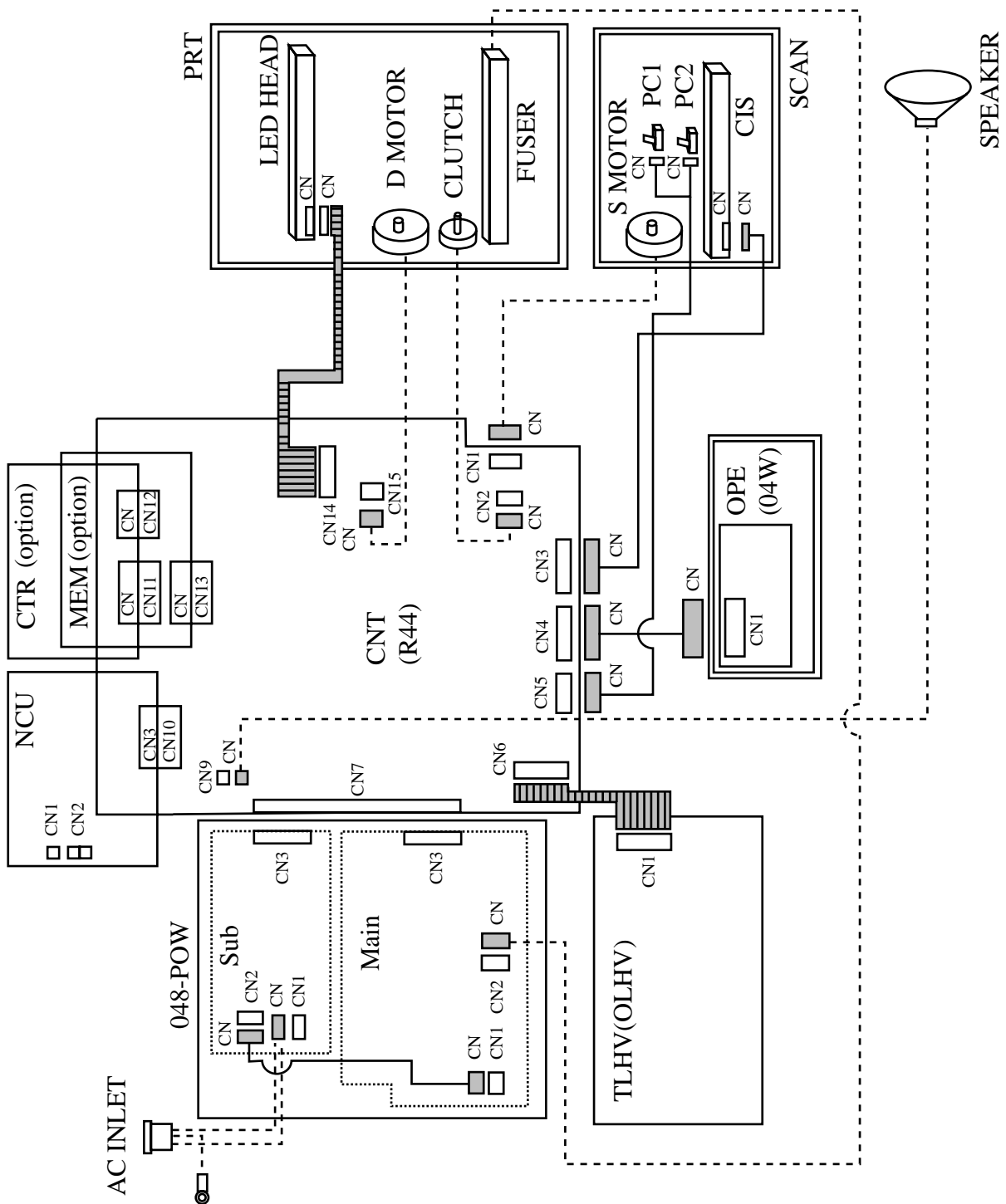
3.3 Boards and Units

The following five boards, Main control board, Memory board (option), Telephone interface board (option), PC interface board (option) and three units constitute the OKIOFFICE44 facsimile transceiver machine.

- Main control board MCNT: (R44)
- Network control unit board NCU: (UNC)
- Memory board (option) MEM: (MEM; 1MB)
- Telephone interface board (option) TEL: (TEL-U, HOOK)
- PC interface board (option) Bi-Centro I/F: (CTR)
- Operation panel assembly unit OPE: (O4W)
- Power supply unit POW UNIT: (TLHV or OLHV, 048 POW;120V/230V)
- Printer unit

Figure 3.3.1 shows the related drawing of OKIOFFICE44 facsimile transceiver.

Block Diagram (Figure 3.3.1)



3.4 Overall Dimension and Mechanical Structure

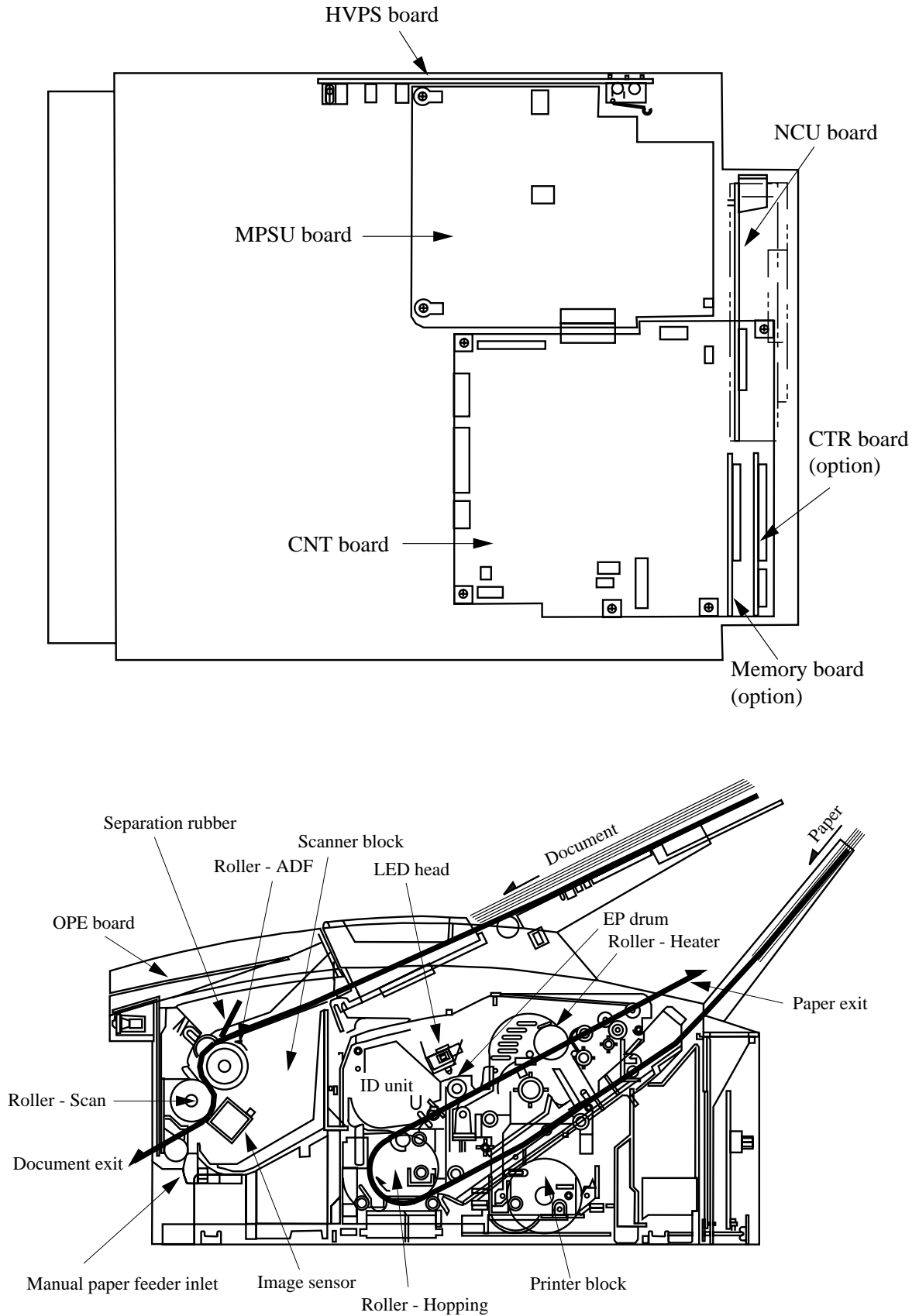


Figure 3.4.1 Overall Dimension and Mechanical Structure

Section 4: Disassembly

This chapter explains the procedures for replacement of assemblies and units in the field.

4.1 General

4.1.1 Precautions for Parts Replacement

- (1) Before starting disassembly and reassembly, always pull out the AC plug.

Note: Unplug the AC power cord from the wall outlet first and then from the facsimile.

- (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.

<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) 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. 27. (Refer to chapter 5)

Service Caution

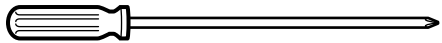
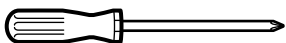
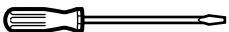

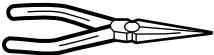

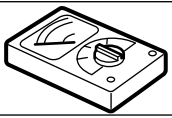
The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

4.1.2 Tools

Table 4.1.1 shows the tools required for the replacement of parts such as circuit boards and mechanical units.

Table 4.1.1 Tools

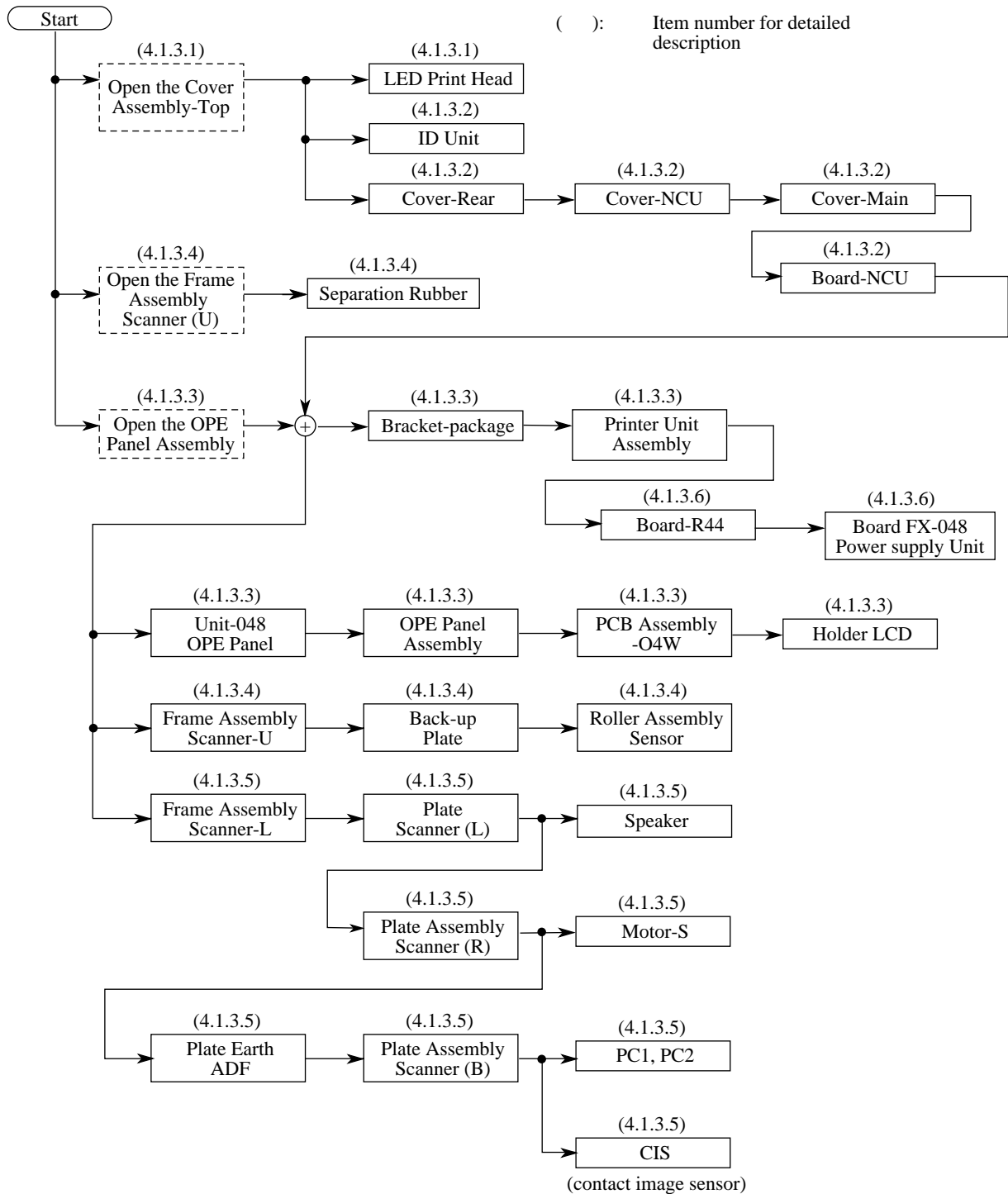
No.	Service tools	Q'ty	Remarks	
1		Philips screw driver (L)	1	
2		Philips screw driver (M)	1	
3		Flat screw drivers (S)	1	
4		Philips screw driver (S)	1	
5		Radio pliers	1	
6		Nippers	1	
7		Multimeter	1	Short-ciucuit test

4.1.3 How to Disassemble and Reassemble

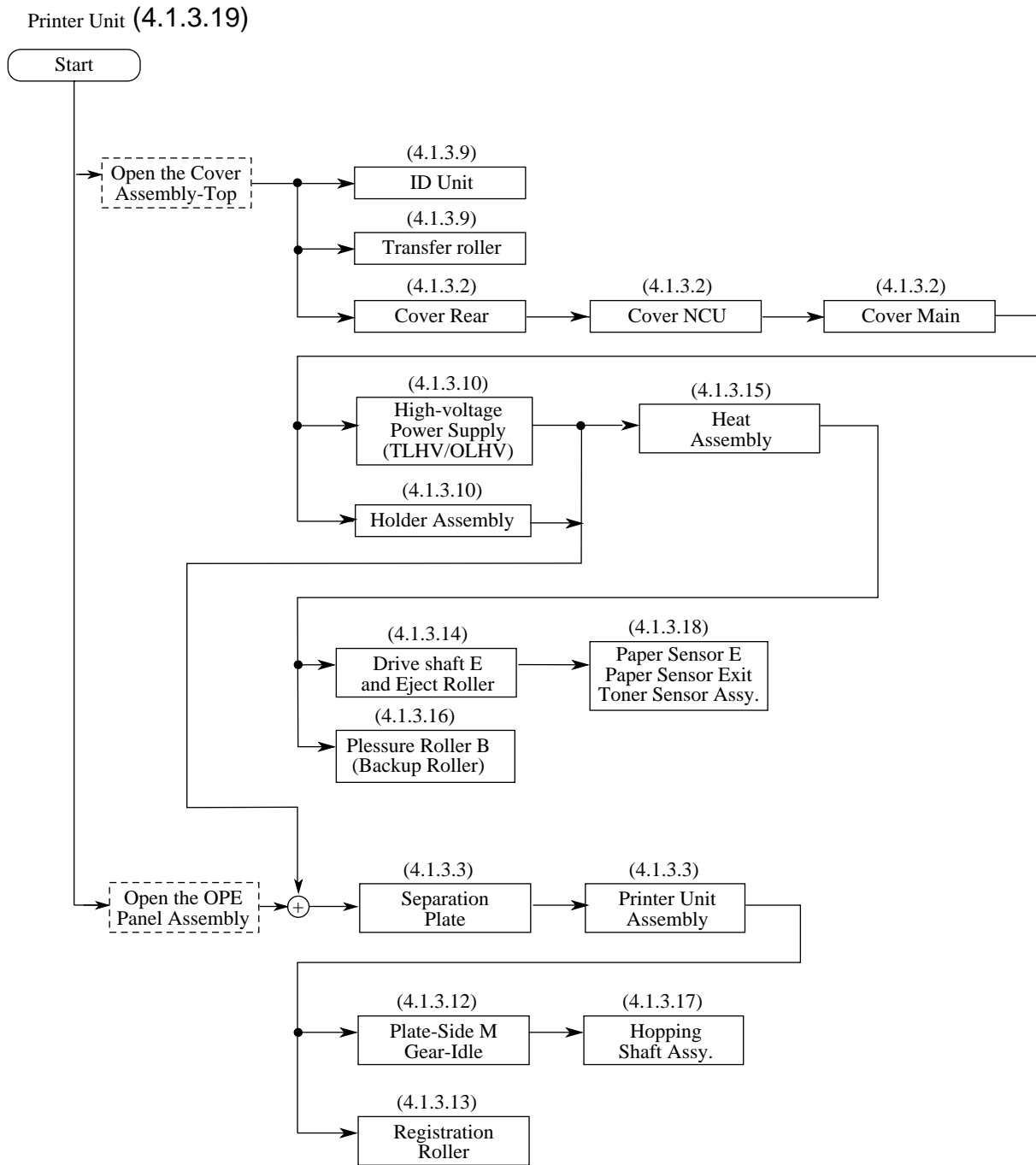
This section explains how to disassemble and reassemble the fax.

- Figure 4.2 shows the disassembly procedure flow as generalization.
- The detailed disassembly procedure is explained from sub-section 4.1.3.1 to 4.1.3.18.

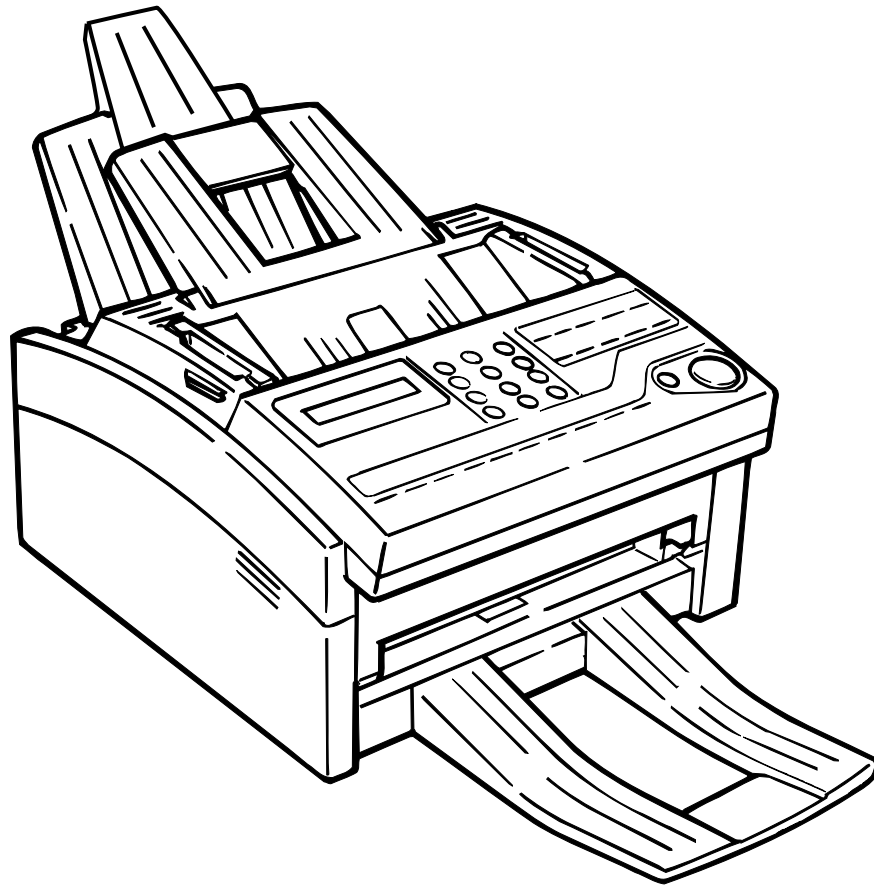
Disassembly Procedure Flow Figure 4.1 (1/2)



Disassembly Procedure Flow Figure 4.1 (2/2)



Whole Unit Picture



(FX048 CP4.1 Fig.01)

4.1.3.1 LED Print Head

Two LED print heads are available.. (208 mm (8.18 inch) width or 216 mm (8.5 inch) width)

(1) Disassembly procedure

- a) Open the cover assembly-top by raising the cover in the direction of the arrow.
- 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:

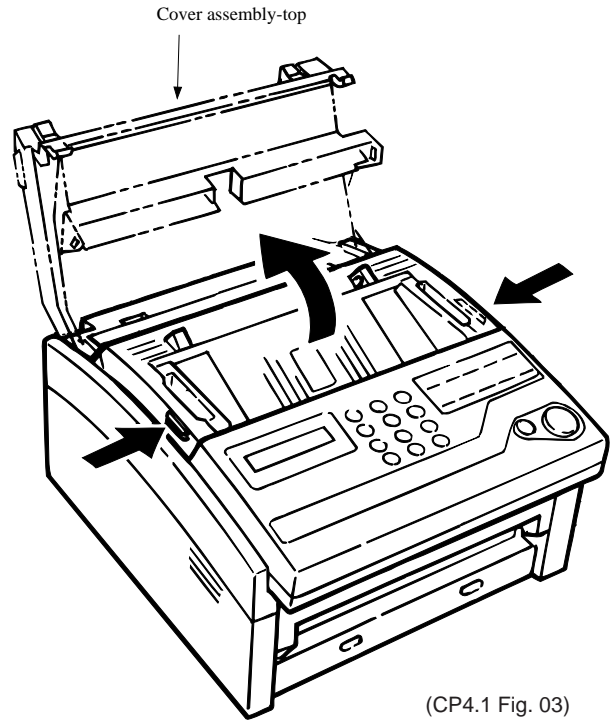
Be sure not to touch directly or push the SLA part of the print head.

(2) Reassembly procedure

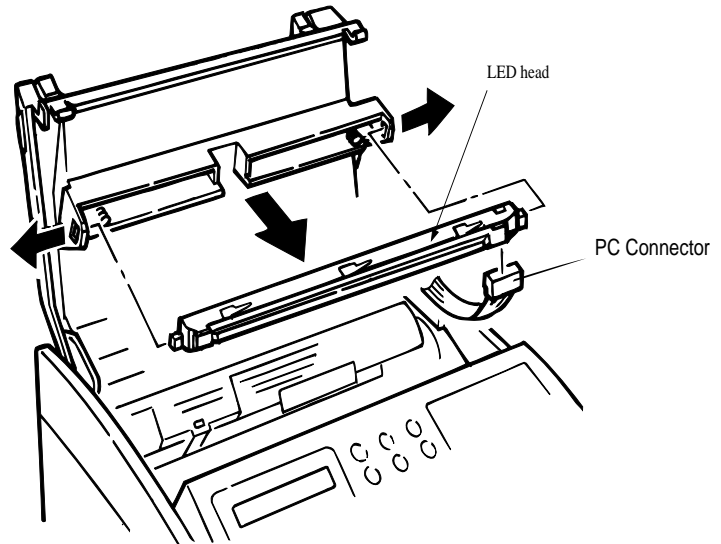
Reverse the disassembly procedures.

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 3.9.1 TF No. 27 and 28)



(CP4.1 Fig. 03)



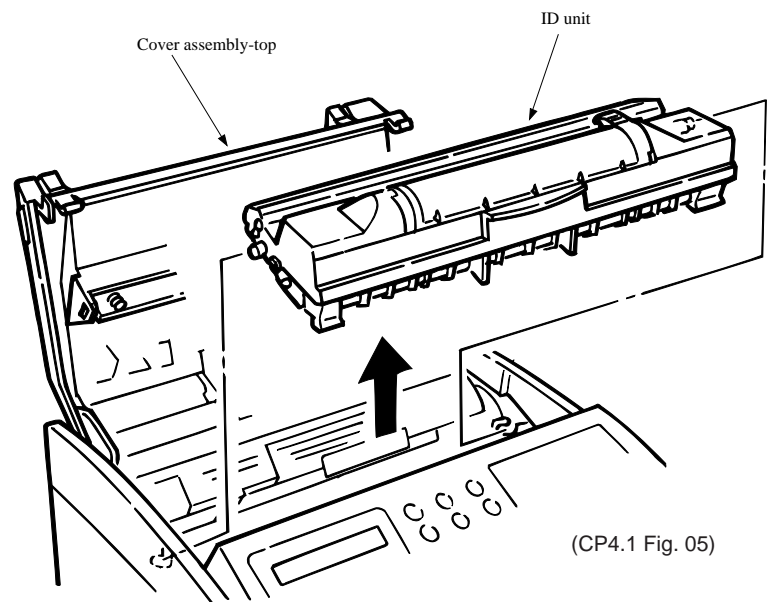
(CP4.1 Fig. 04)

4.1.3.2 Image Drum and Covers (Rear, NCU, Main) and NCU Board

Service Caution:

The High Voltage Power Supply PCB in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.



(1) Disassembly procedure

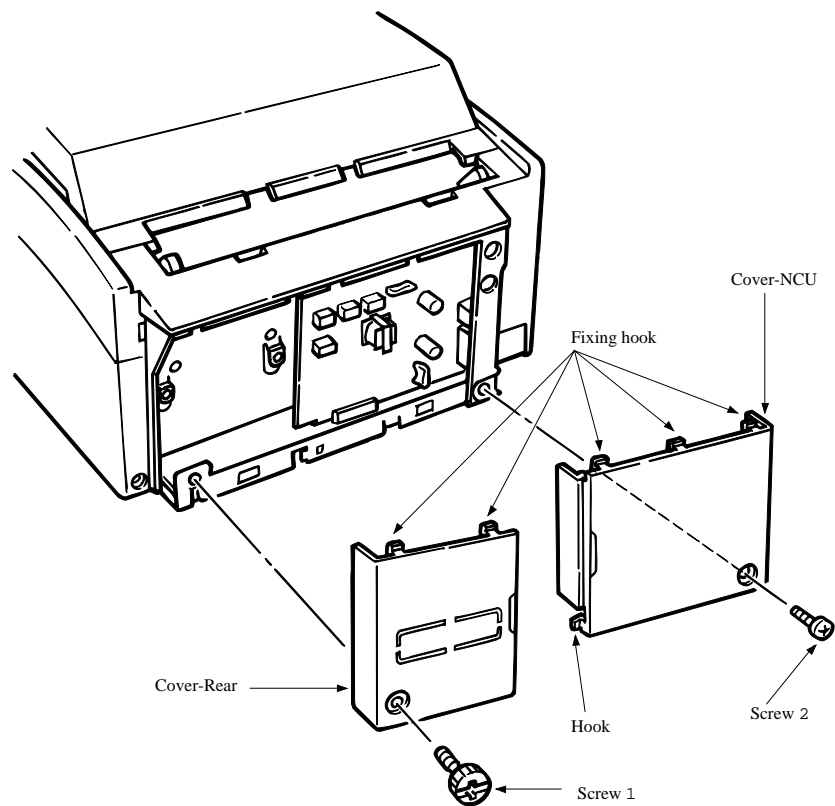
- a) Open the cover assembly-top by raising.
- b) Remove the image drum unit.

c) Cover-Rear:

Remove the Cover-Rear by removing the screw 1 and the detach the fixing hooks (2).

d) Cover-NCU:

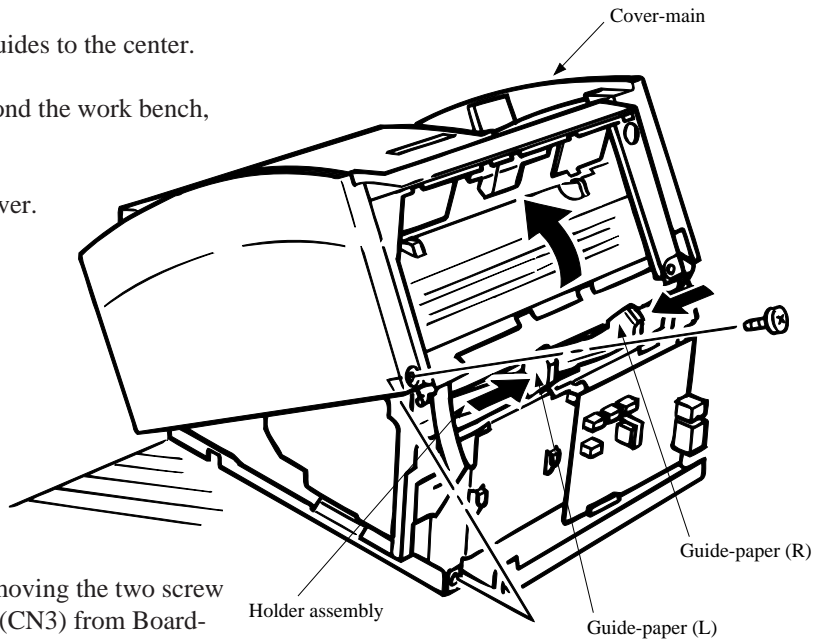
Remove the Cover-NCU by removing the screw 2 and detaching the fixing hooks (4).



- e) Move the left and right paper guides to the center.

Extend the unit two inches beyond the work bench, to allow for clearance.

Lift (from the rear) the main cover.



- f) Board-NCU:

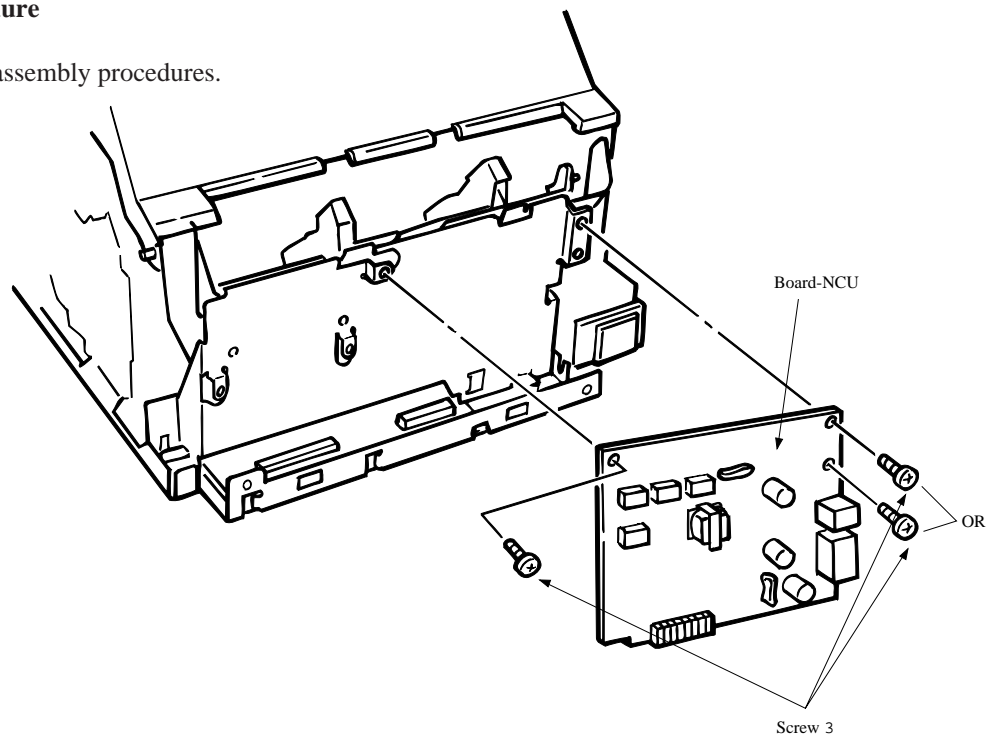
Remove the Board-NCU by removing the two screw 3 and disconnect the connector (CN3) from Board-NCU.

Note: Board-NCU can be removed without removing the Cover-Main.

(CP4.1 Fig. 08)

(2) Reassembly procedure

Reverse the disassembly procedures.

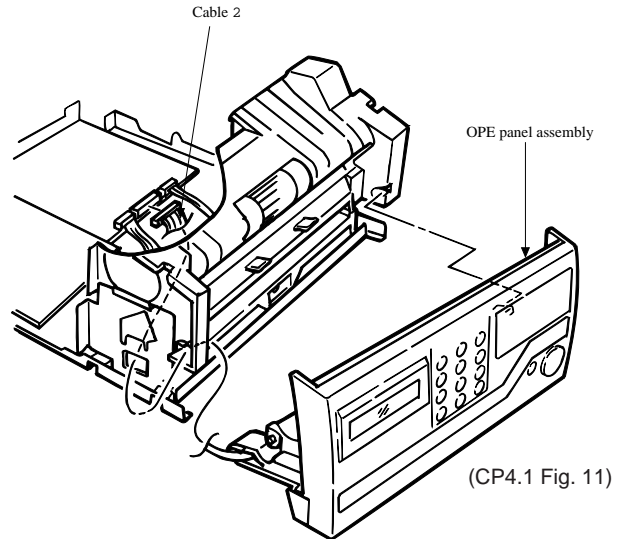


(CP4.1 Fig. 09)

4.1.3.3 Unit-048 OPE-Panel

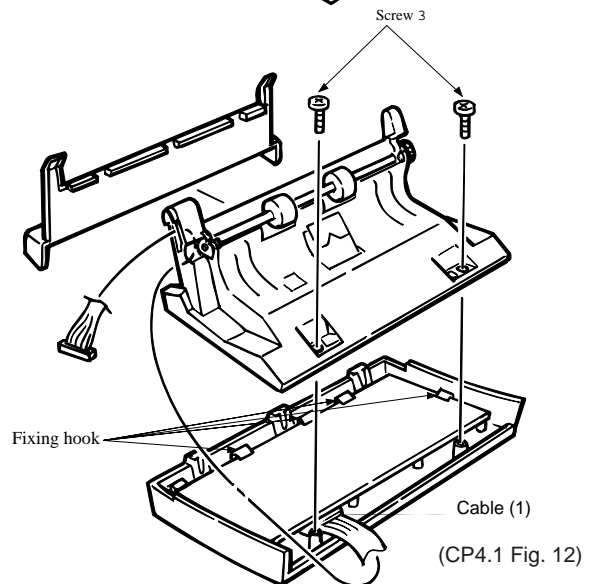
(1) Disassembly procedure

- a) First, carry out the disassembly procedure up to the point of the 4.1.3.2 (Item (e). Cover-main).
- b) Dismount the Printer-Unit.
(See Section 4.1.3.19)
- c) Open the OPE-panel assembly.



- d) OPE panel assembly:

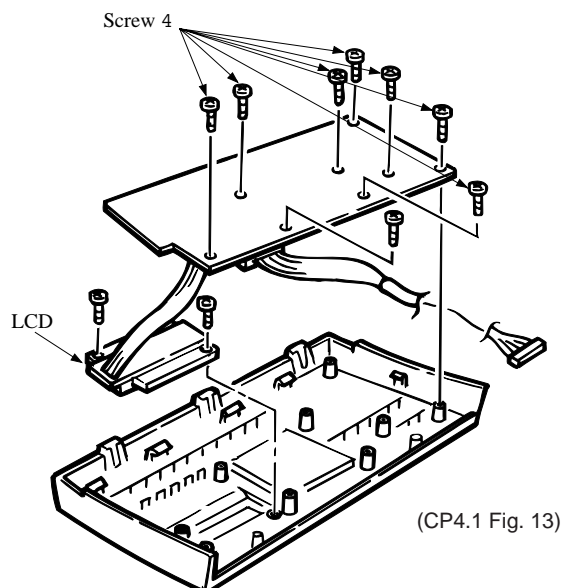
Remove the OPE panel assembly by detaching the cable (1), removing the two screws (3), removing the eight screws (4), and detaching the fixing hooks.



- e) Remove the two screws and remove the LCD.

2) Reassembly procedure

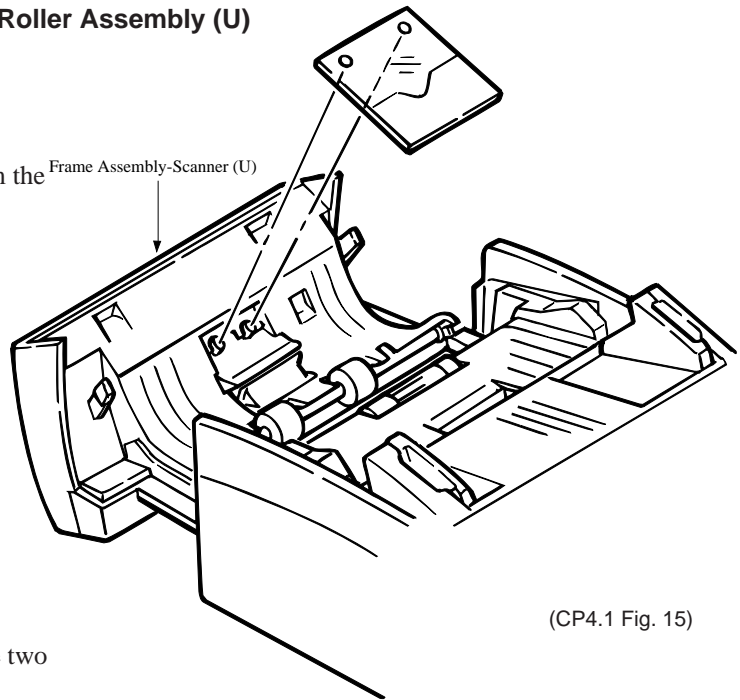
Reverse the disassembly procedures.



4.1.3.4 Separation Rubber, Sensor Frame Roller Assembly (U)

(1) Disassembly procedure

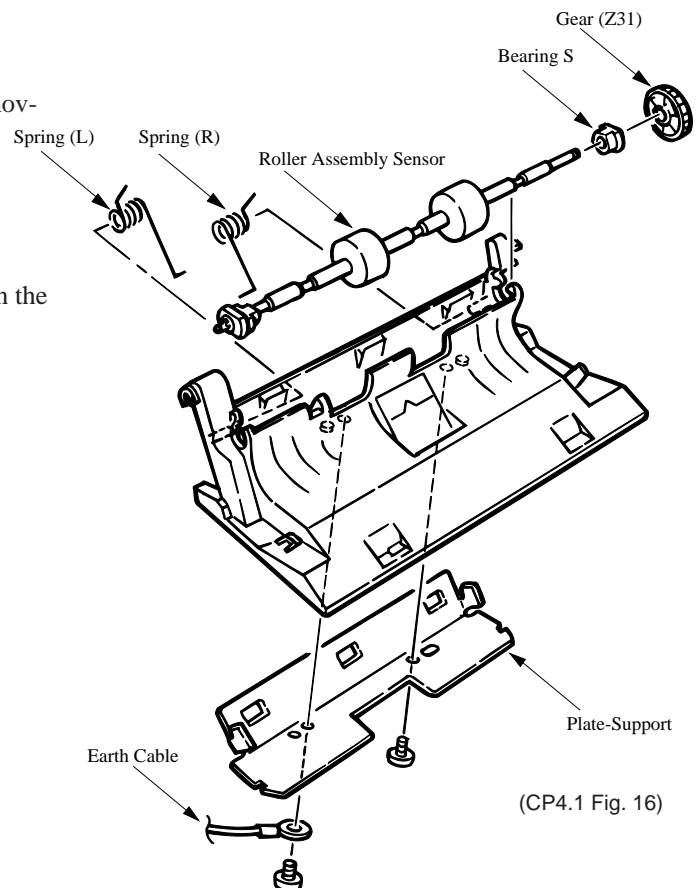
- a) Separation rubber:
The separation rubber can be removed from the Frame Assembly-Scanner (U).



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

Note: Just fitting to two bosses.

- c) Remove the two springs (L) and (R).
- d) Remove the Roller Assembly-Sensor by removing the Gear (Z31).
- e) Remove cable from CN4 on the R-44 PCB.
- f) Tilt the Frame Assembly (U) forward, while turning and lifting upward to clear the slot on the right side of the roller assembly.
- g) Remove the frame assembly.



(2) Reassembly procedure

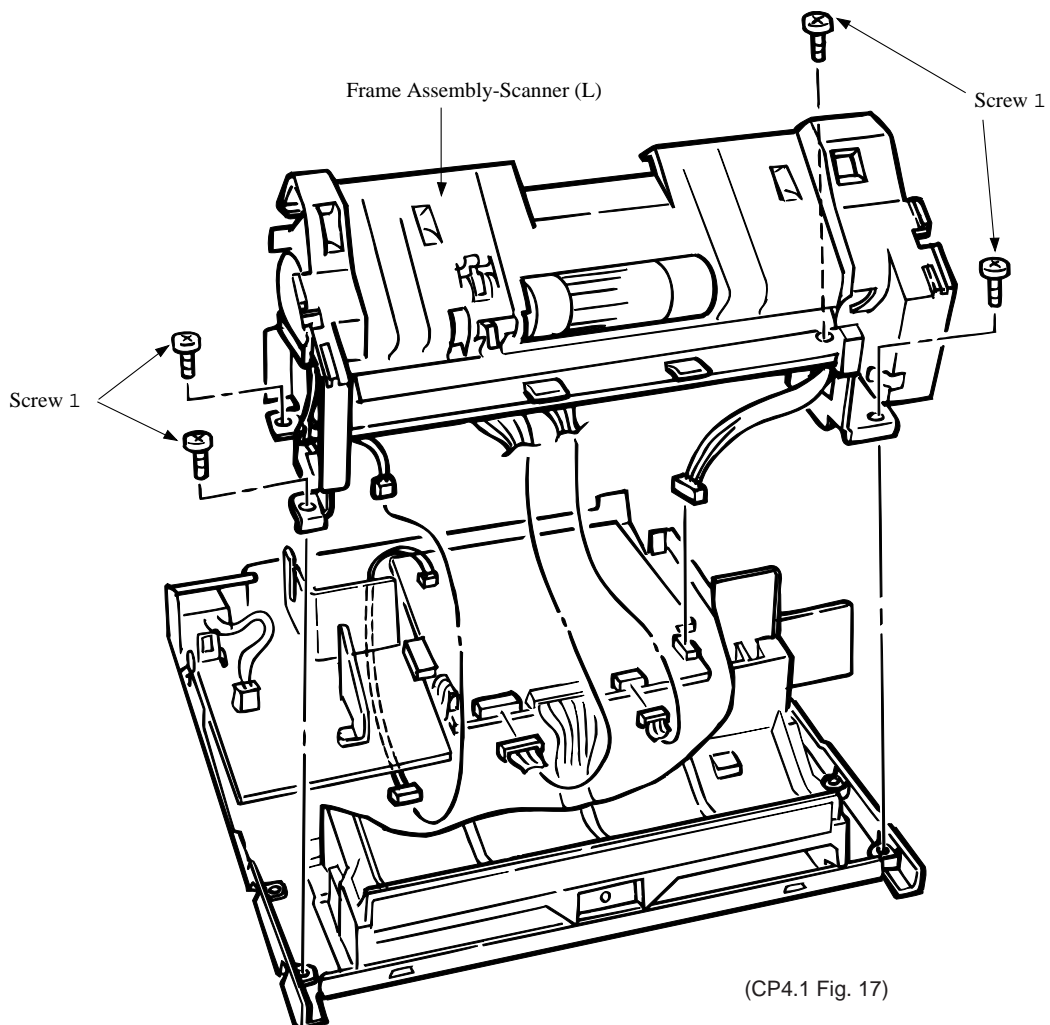
Reverse the disassembly procedure.

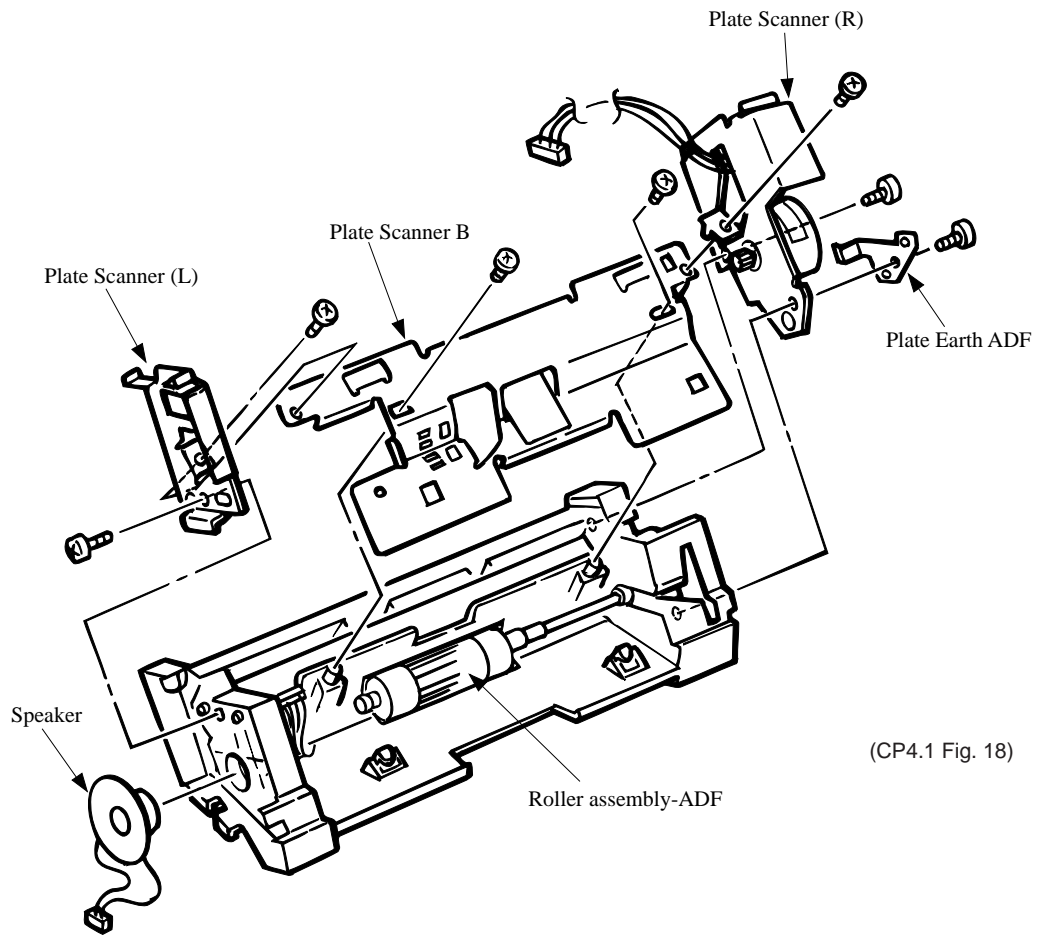
4.1.3.5 Roller Assembly-ADF, CIS, Lever-PC1 and PC2

CIS = Contact Image Sensor

(1) Disassembly procedure

- a) First, carry out the disassembly procedures up to the point of the 4.1.3.2 and 4.1.3.3.
- b) Dismount the Printer-Unit.
(See Section 4.1.3.19)
- c) Remove the Frame assembly-Scanner (L) by removing the four screws 1 and the four connectors.





(CP4.1 Fig. 18)

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

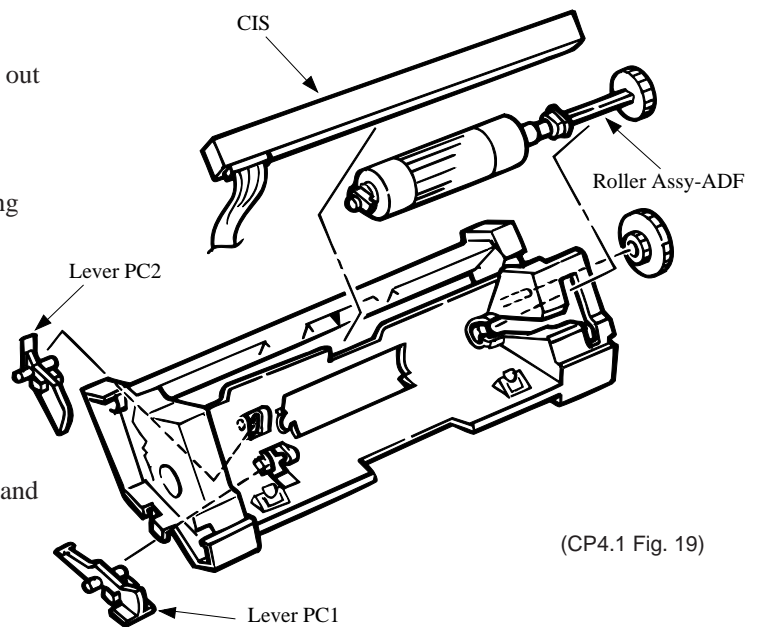
e) Remove the Plate Scanner (L) by removing the two screws.

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.

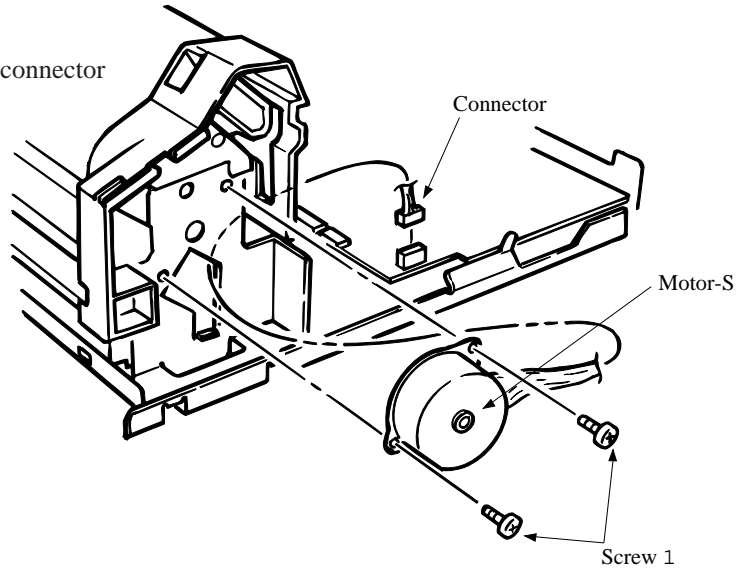
i) Remove the CIS (contact image sensor).



(CP4.1 Fig. 19)

j) Motor-S:

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



(CP4.1 Fig. 19)

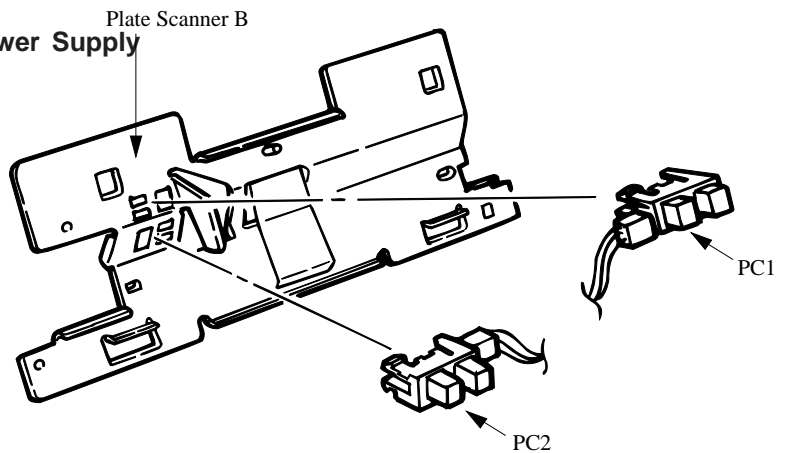
k) Photo-Sensor (PC1, PC2):

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.

4.1.3.6 Board-R44, OKIOFFICE 44 Power Supply

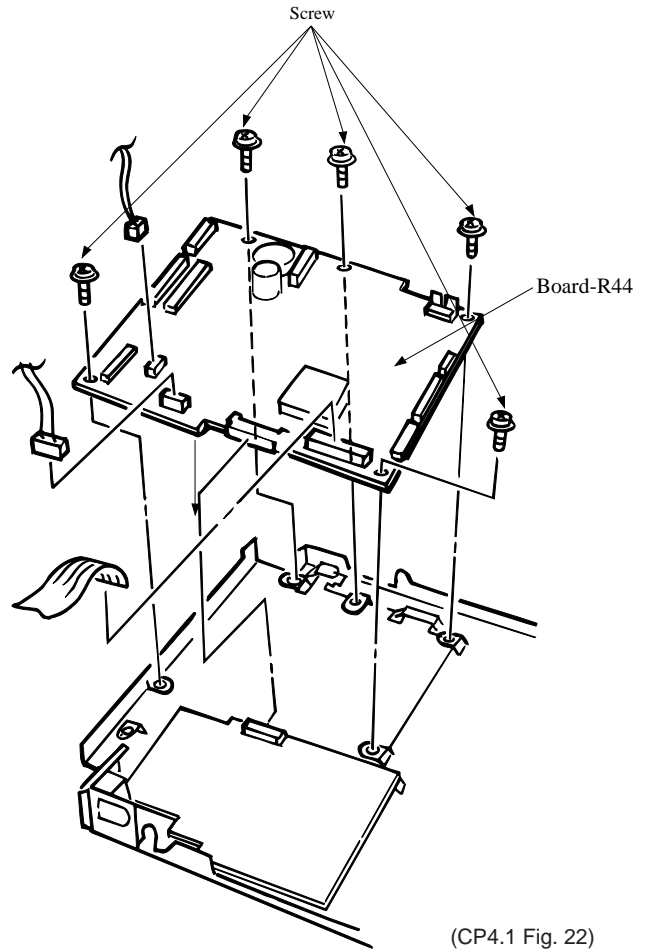


(CP4.1 Fig. 20)

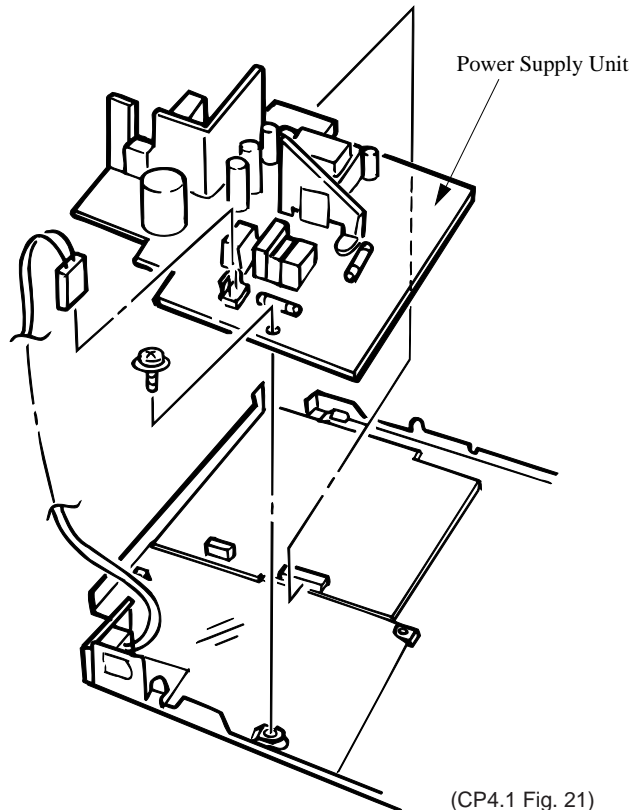
Unit

(1) Disassembly procedure

- a) First, carry out the disassembly procedure up to the point of the 4.1.3.2 (Cover-Rear, Cover-Main etc.).
- b) Board-R44:
Disconnect all connectors.
- c) Remove the five screws and remove the Board R44.



- d) OKIOFFICE 44 Power Supply Unit:
Disconnect all connectors.
- e) Remove the screws and remove the OKIOFFICE 44 Power Supply Unit.



(2) Reassembly procedure

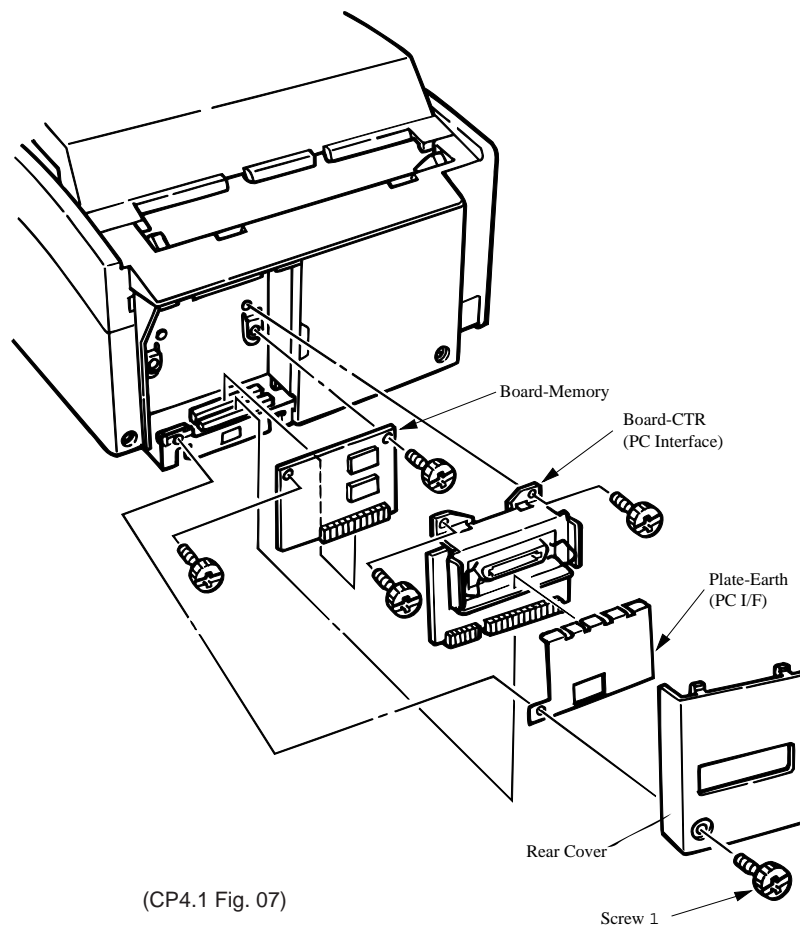
Reverse the disassembly procedures.

4.1.3.7 Option (Board-Memory: MEM, Board-CTR; PC Interface)

(1) Disassembly procedure

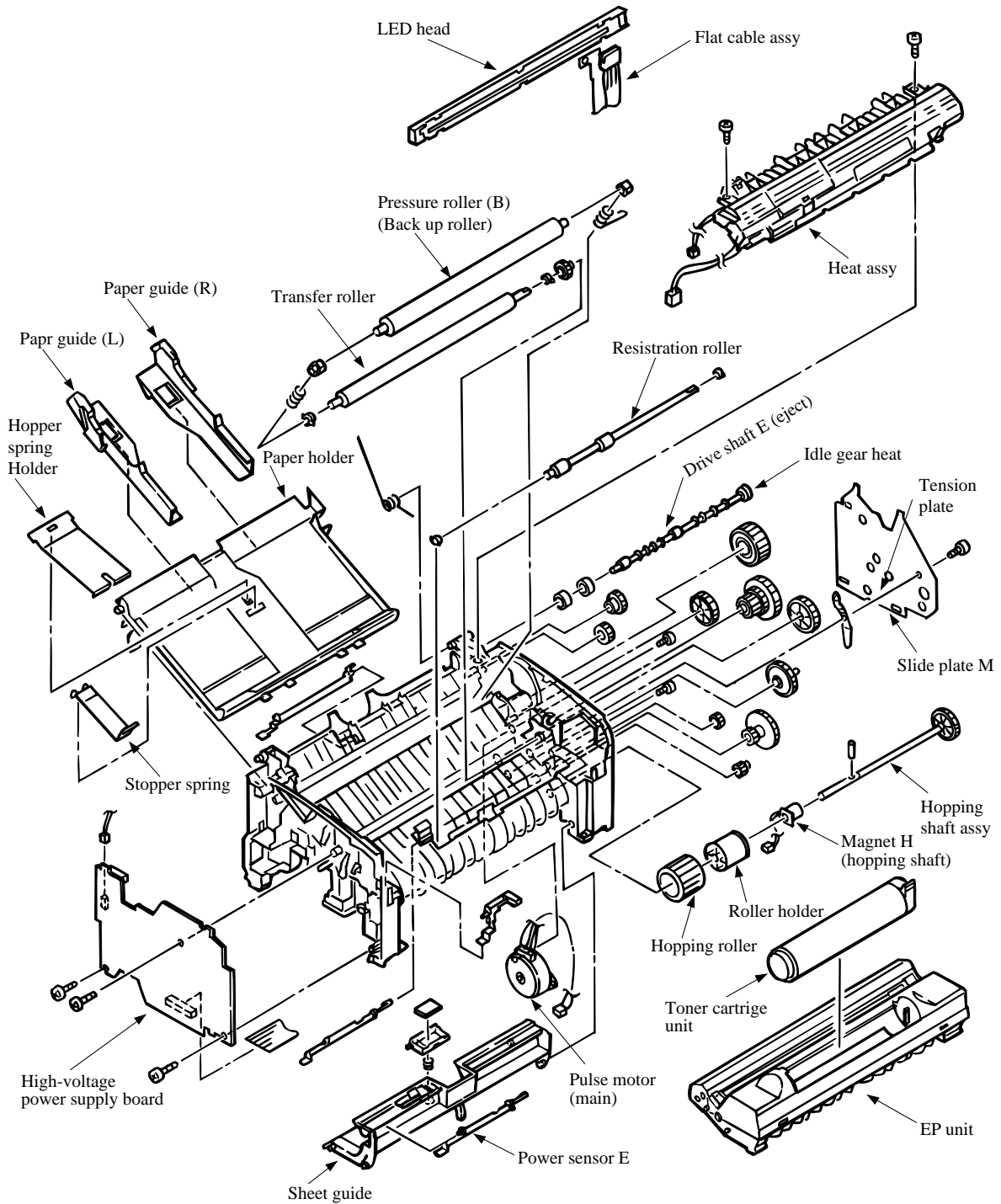
- a) Remove the Cover-Rear by removing the screw 1 and the part of the fixing hooks.
- b) Remove the Plate-Earth (PC I/F)
- c) Board-Memory (MEM):
Remove Board-Memory on the connector CN13 of the Board-R44, and removing the screw to the separation plate.
- d) Board-PC Interface (CTR):
Remove the Board-Memory on the connector CN11 and CN12 of the Board-R44, and removing the two screws to the pc-earth plate.

Note: Install on the inner side connector for the Board-Memory (MEM) and outside connector for the Board-PC interface (CTR).



4.1.3.8 Printer Unit Section

[Base Frame Unit]



(CP4.1 Fig. 23)

4.1.3.9 Transfer Roller

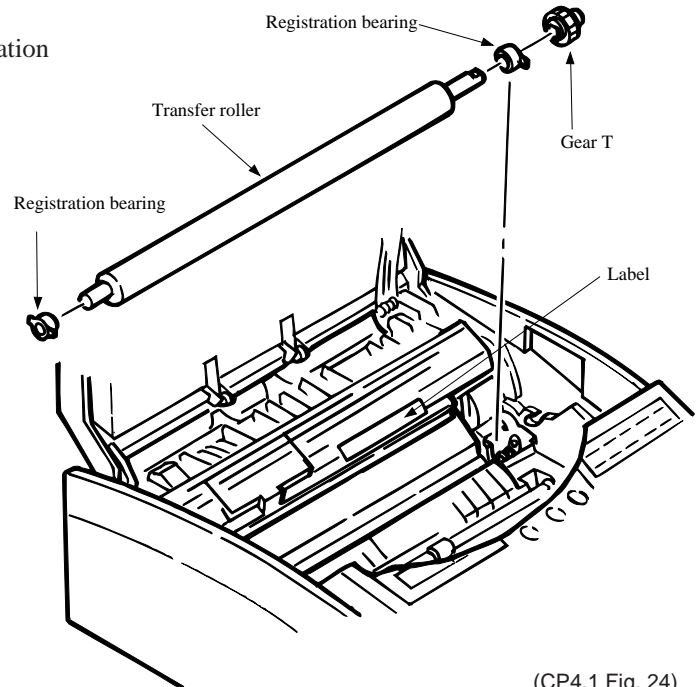
(1) Disassembly procedure

- a) Open the cover assembly.

Remove the ID unit.

- b) Remove the right claw.

Then, dismount transfer roller, two registration bearing, and gear T.



(CP4.1 Fig. 24)

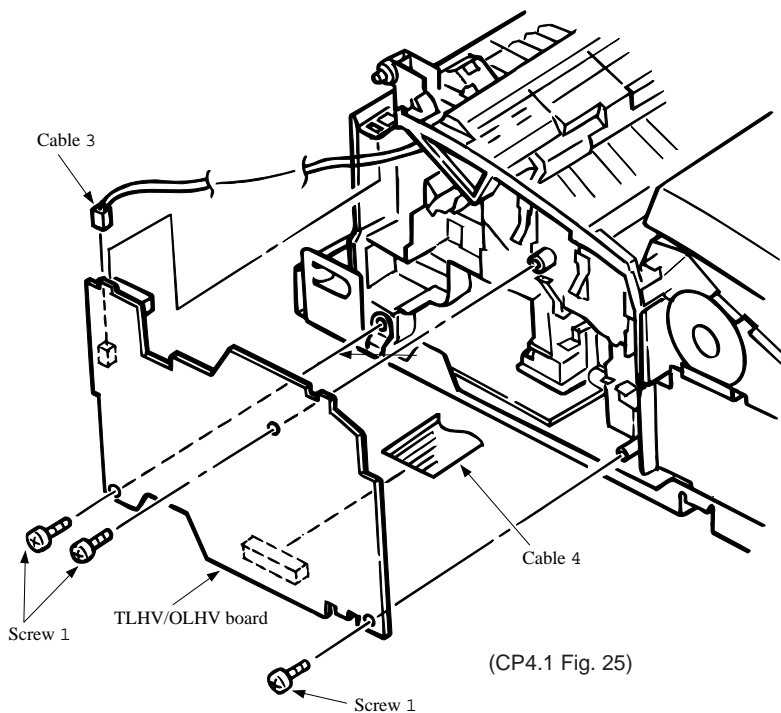
(2) Reassembly procedure

Reverse the disassembly procedures.

4.1.3.10 High-Voltage Power Supply Unit (TLHV/OLHV)

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).
- b) Remove the three screws 1 and draw out high-voltage power supply board (TLHV/OLHV).
- c) Disconnect all the cables 3 and 4 from high-voltage power supply board (TLHV/OLHV) and dismount high-voltage power supply board.



Service Caution:

The High Voltage Power Supply PCB in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

- 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.

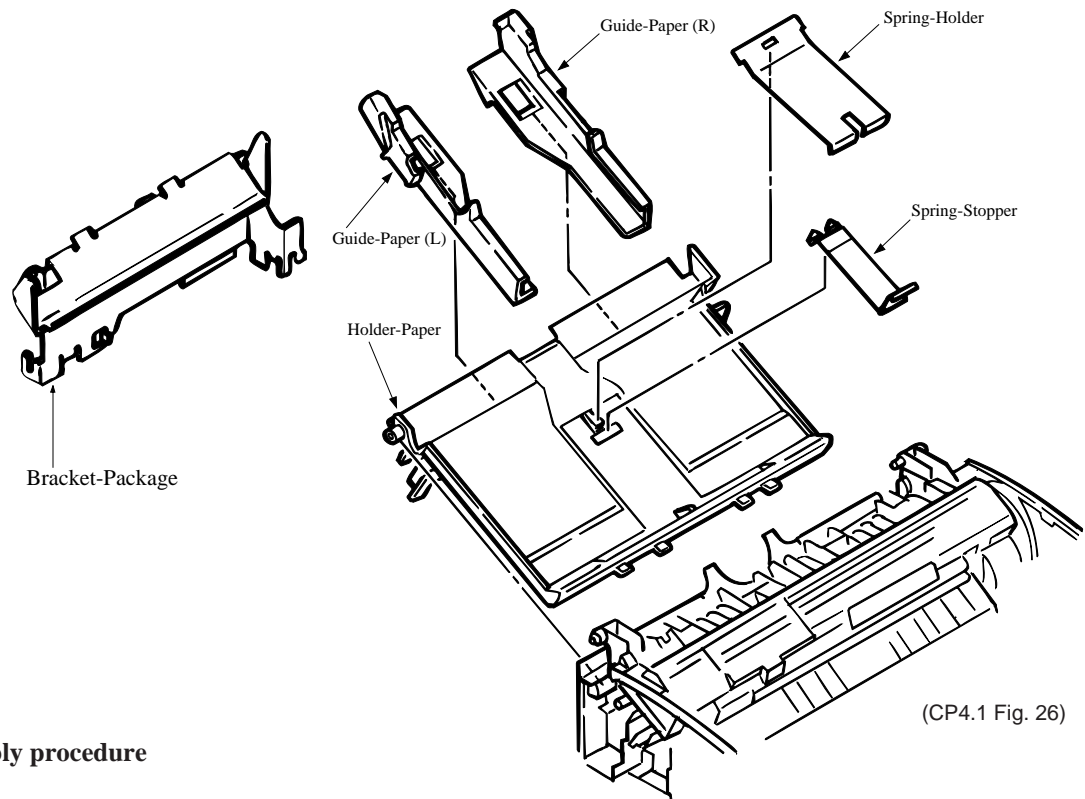
(2) Reassembly procedure

Reverse the disassembly procedures.

4.1.3.11 Holder Assembly

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU 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.



(CP4.1 Fig. 26)

(2) Reassembly procedure

Reverse the disassembly procedures.

4.1.3.12 Plate-Side M and Gear-Idle

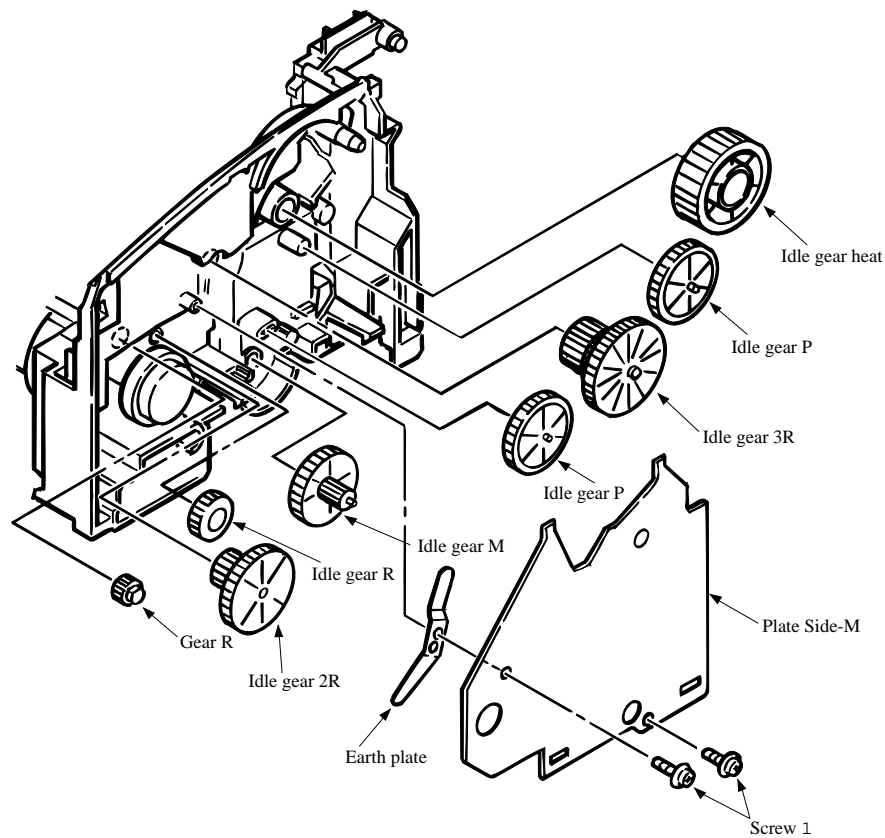
(1) Disassembly procedure

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 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU 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.

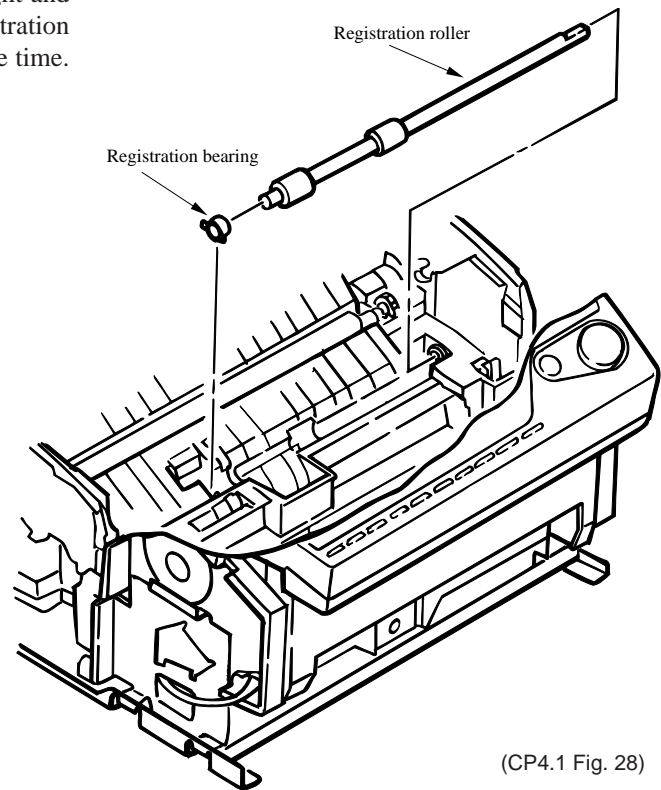


(CP4.1 Fig. 27)

4.1.3.13 Registration Roller

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU 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.)



(CP4.1 Fig. 28)

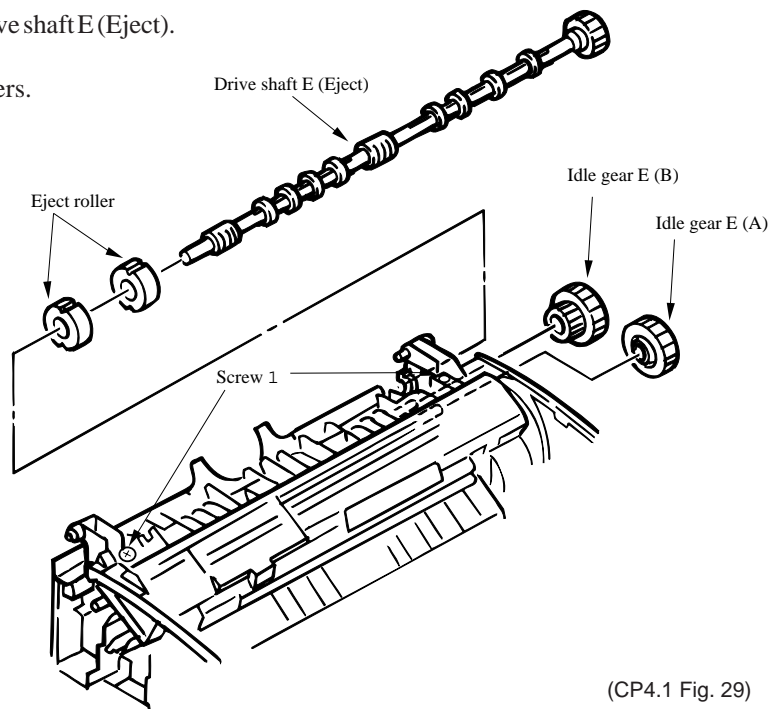
(2) Reassembly procedure

Reverse the disassembly procedures.

4.1.3.14 Drive Shaft E (Eject) and Eject Roller

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).
- b) Remove two screws 1 from Cover Heat Assembly (section 4.3.7), lift the heat assy, and dismount idle gear E (A) and idle gear E (B).
- c) Unlock and dismount drive shaft E (Eject).
- d) Dismount two eject rollers.



(CP4.1 Fig. 29)

(2) Reassembly procedure

Reverse the disassembly procedures.

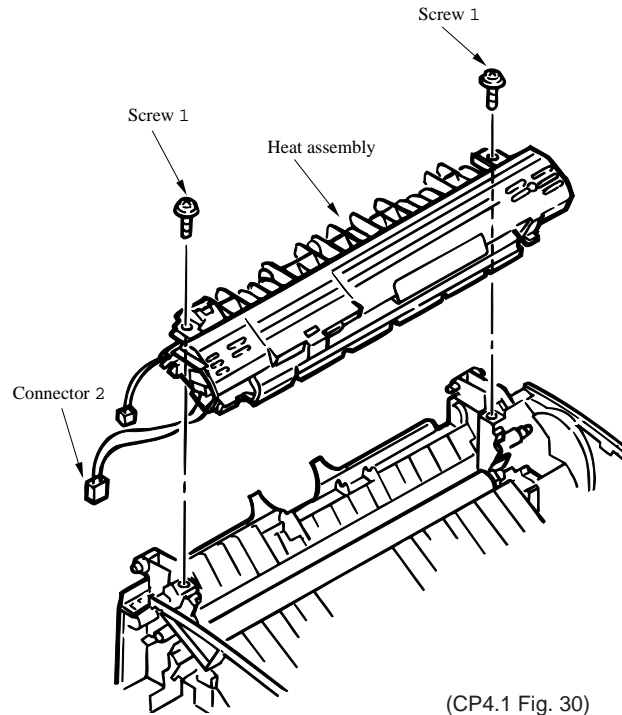
4.1.3.15 Heat Assembly

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

(1) Disassembly procedure

Dismounting the heat assembly

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).
- b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)
- c) Remove NCU-Board with two screws.
- d) Remove Bracket-Package with three screws, then disconnect Cable-Flat from connector on R44-Board (M-CNT). (See Section 4.1.3.19)
- e) Pull out the Holder-Assy. (See Section 4.1.3.11)
- f) Disconnect connector 2, remove two screws 1, and dismount the heat assembly.



(CP4.1 Fig. 30)

(2) Reassembly procedure

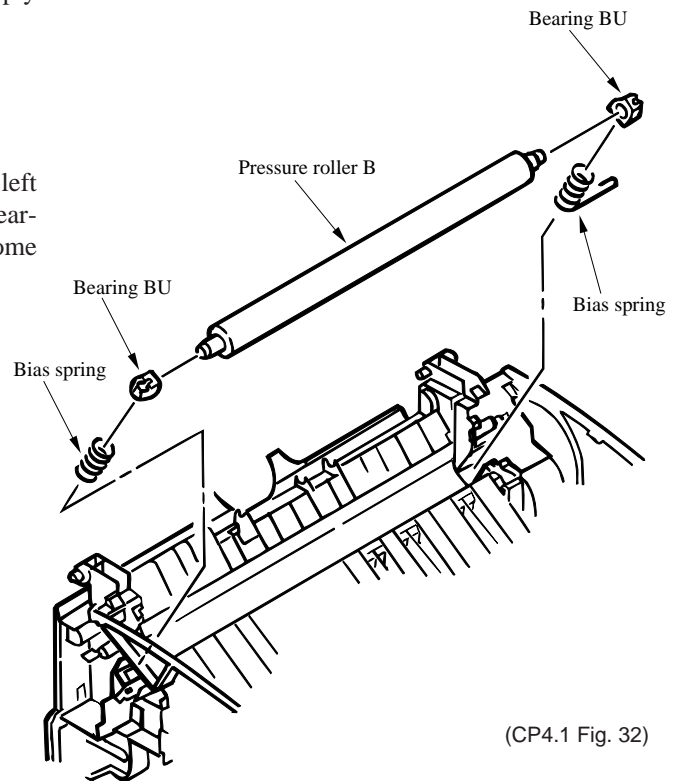
Reverse the disassembly procedures

(CP4.1 Fig. 31)

4.1.3.16 Pressure Roller B (Back Up Roller)

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).
- b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)
- c) Dismount heat assembly. (See section 4.1.3.15)
- 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.)



(CP4.1 Fig. 32)

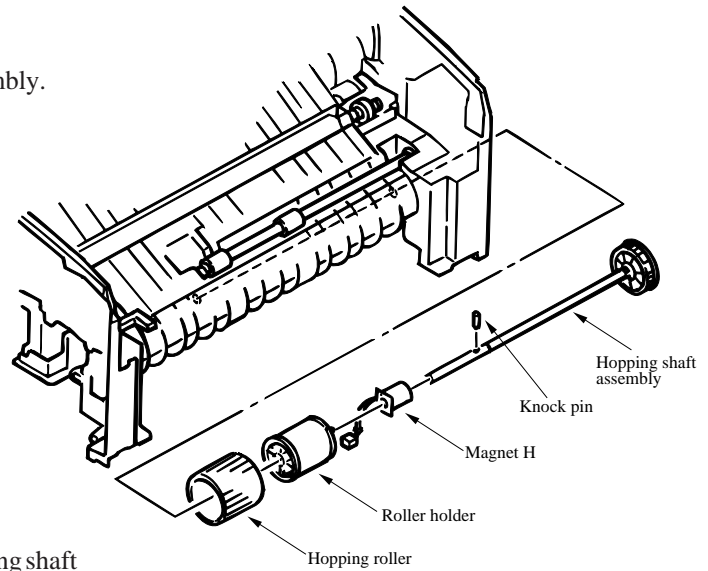
(2) Reassembly procedure

Reverse the disassembly procedures

4.1.3.17 Hopping Shaft Assembly

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).
- b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)
- c) Dismount the paper holder assembly. (See Section 4.1.3.11)
- d) Dismount the sheet guide. (See Section 4.1.3.12)
- e) Dismount the side plate M. (See Section 4.1.3.12)
- 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.



(CP4.1 Fig. 33)

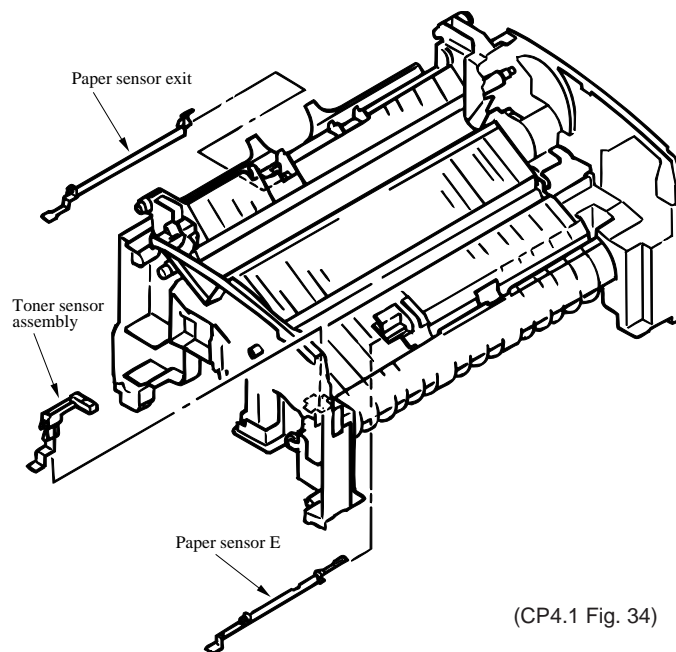
(2) Reassembly procedure

Reverse the disassembly procedures

4.1.3.18 Paper Sensor E, Paper Sensor Exit and Toner Sensor Assembly

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-MAIN).
- b) Dismount the high-voltage power supply board. (See Section 4.1.3.10)
- c) Dismount the paper holder assembly. (See Section 4.1.3.11)
- d) Dismount the heat assembly. (See Section 4.1.3.15)
- e) Dismount the drive shaft E. (See Section 4.1.3.14)
- f) Dismount the paper sensor E.
- g) Dismount the paper sensor exit.
- h) Dismount the toner sensor assembly.



(CP4.1 Fig. 34)

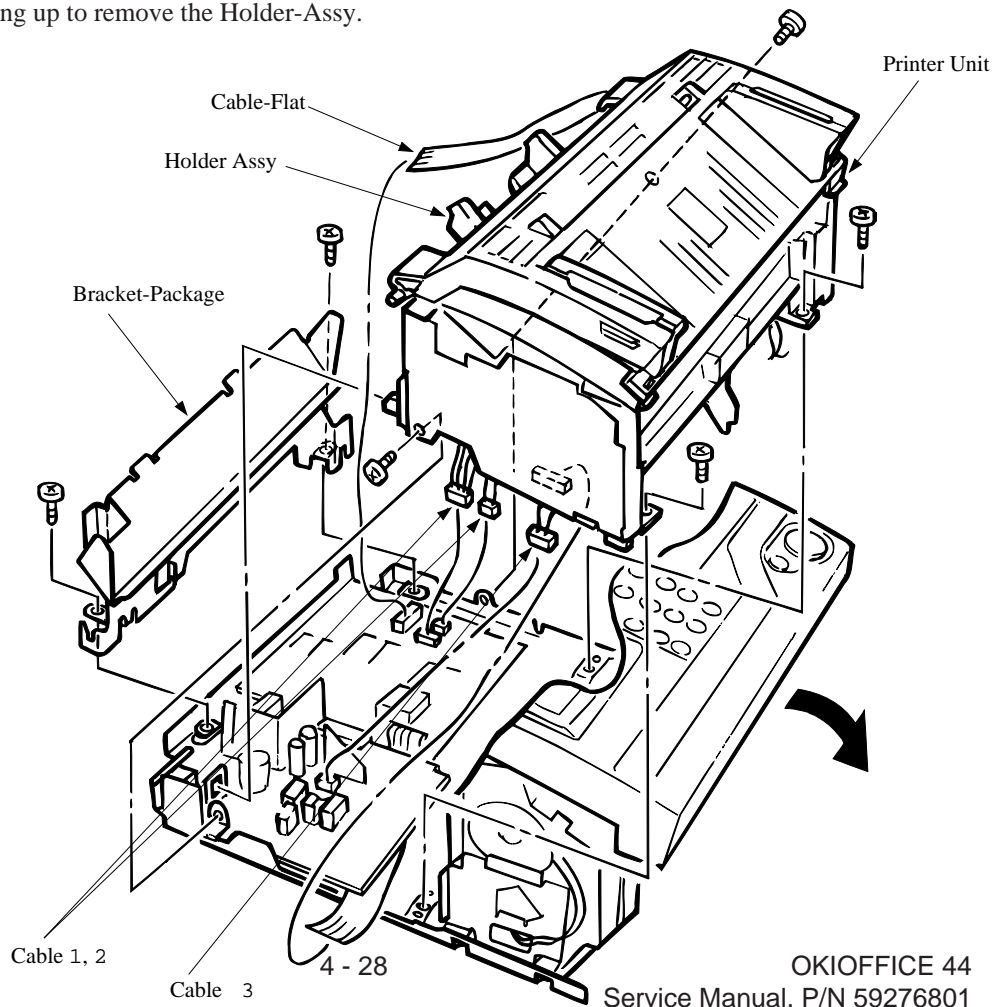
(2) Reassembly procedure

Reverse the disassembly procedures

4.1.3.19 Printer Unit

(1) Disassembly procedure

- a) First, carry out procedure up to the point of the 4.1.3.2 (ID Unit, Cover-Rear, Cover-NCU and Cover-Main).
- b) Remove Bracket-Package with three screws, then disconnect Cable-Flat from connector on R44-Board (M-CNT).
- c) Dismount the high-voltage power supply board.
(See Section 4.1.3.10)
- d) Disconnect cable 1 and 2 from connector on Board-R44 (M-CNT), and disconnect cable 3 from Connect on Power Supply Unit.
- e) Remove the Printer Unit by removing three screws.
- f) Detach the four clamps from underneath, push inward on the top two tabs while lifting up to remove the Holder-Assy.



Disassembly

OKIOFFICE 44

Service Manual, P/N 59276801

Add

5.2 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: R44 board; LC2-3 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: R44 board; CN7-12 pin and ground terminal
- Specification: +5V \pm 4% (+4.5V to 5.2V)

3) +5V DC Voltage

- Measurement point: R44 board; CN7-1, 2 & 3 pin and ground terminal
- Specification: +5V \pm 4% (+4.5V to 5.2V)

4) -8V DC Voltage

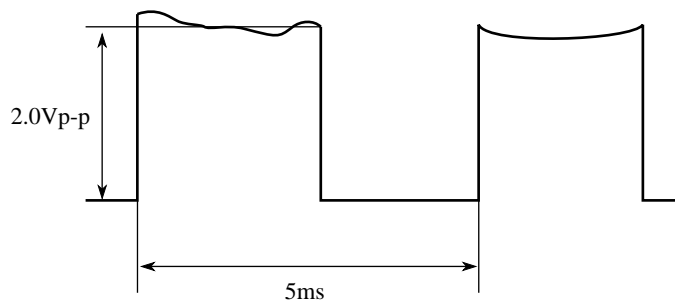
- Measurement point: R44 board; CN7-9 pin and ground terminal
- Specification: -15V to -6.5V

5) +30V DC Voltage

- Measurement point: R44 board; CN7-8 pin and ground terminal
- Specification: +24V to +45V

6) Contact Image Sensor Output (SIG signal)

- Measurement point: R44 board; CN5-1 pin and ground terminal
- Specification: A waveform sample is shown below.
- Test chart: White sheet (A4 size)



Service Caution

The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

5.3 Measurement

- 1) Remove the AC power cord.
- 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 4-1.)
- 3) Connect extension cables to the R44 board.
- 4) Connect the frequency counter (for clock frequency), digital voltmeter (for power voltage) and Oscilloscope (for SIG signal). See figure 5.2.1.
- 5) Reconnect the AC power code.
Main power supply is set to "ON" (PC1 ON) by loading the document on the cover-top.
(except +5V SUB)
- 6) Measurement
- 7) Remove the AC power code.
- 8) Reverse the disassembly procedures.

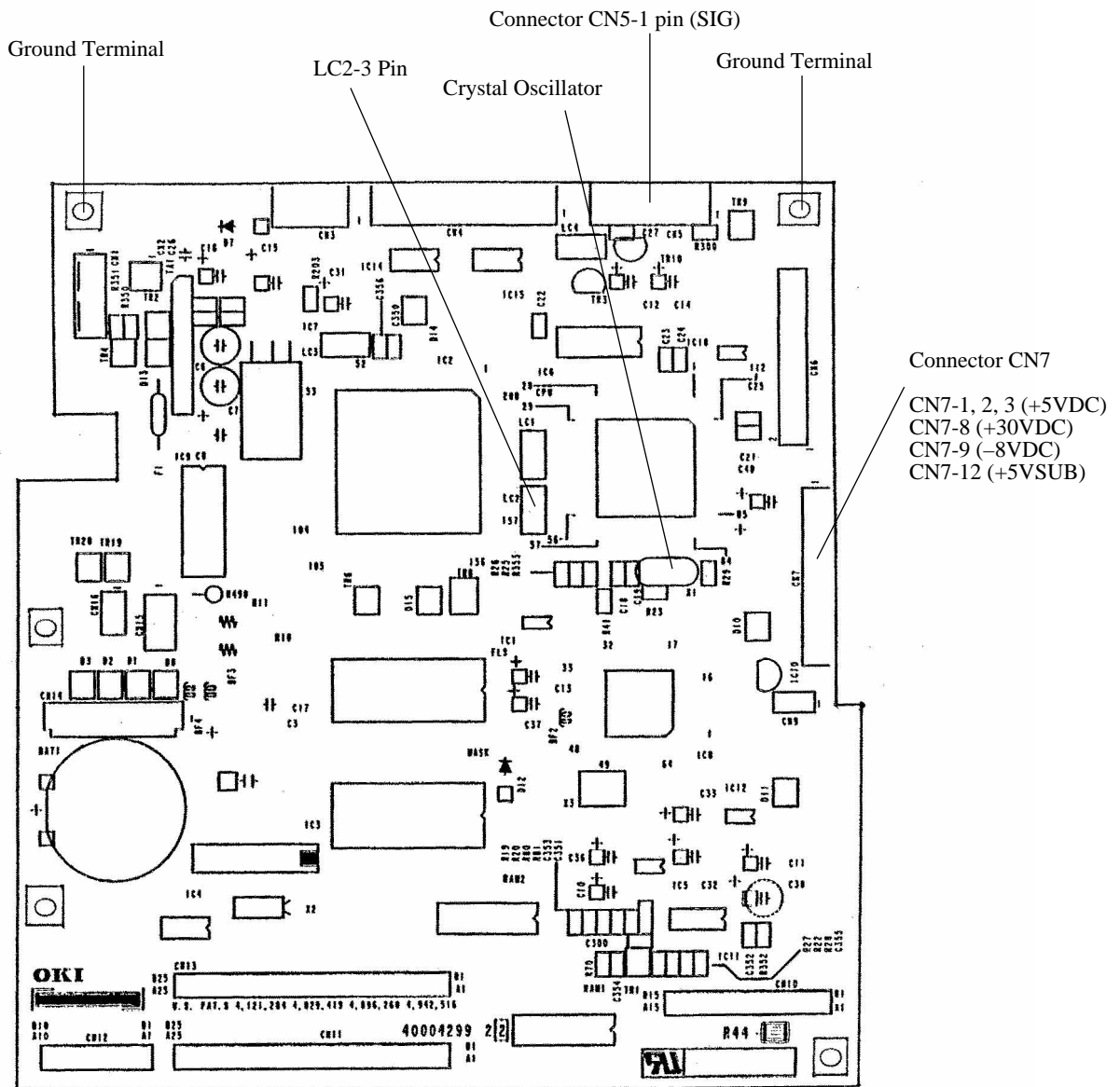


Figure 5.2.1 Measurement Points on R44 Board

Service Caution

The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

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Section 6: Cleaning and Maintenance

6.1 Consumables Replacement

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

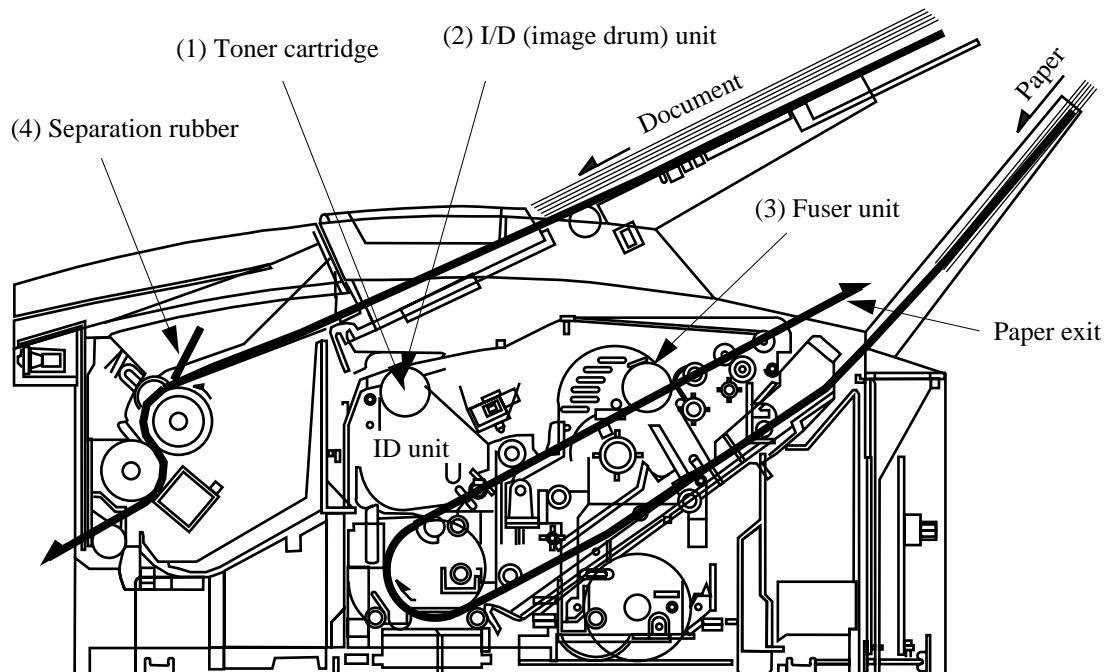
User Replaceable Items Life

No.	Part name	Expected Use Before Replacement	Reference Item No. in Fig.6.1.1
1	Toner Cartridge	1250 sheets/cartridge for OKIOFFICE 44 (ITU-T document sample No.1) (For the second or later cartridge to a new I/D Unit) * The first toner cartridge installed in a new I/D unit will have a decreased yield.	(1)
2	I/D Unit (Image drum unit)	4,500 sheets: 1 page/job, 8,000 sheets: 3 page/job for OKIOFFICE 44	(2)

Service Parts Life

No.	Part name	Expected Use Before Replacement	Reference Item No. in Fig.6.2.1
1	Fuser Unit	30,000 sheets for OKIOFFICE 44.	(3)
2	Separation Rubber	The Separation Rubber will not require replacement for at least 30,000 documents fed.	(4)

Consumables Diagram (Figure 6.1.1)



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Others

Reliability Table (6.1.1.)

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	Battery	The OKIOFFICE 44 does not have a battery.
4	MTBF	The MTBF for the overall machine will exceed 3,000 hours of actual operation. The MTBF will be measured at a confidence level of 95% under controlled laboratory conditions. The MTBF will be based on 50% transmit and 50% receive activities.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the battery manufacturer.

Dispose of used batteries according to the battery manufacturer's instructions.

Do not open the battery, dispose of in fire, or short circuit.

The battery may explode, leak, or get hot.

This may cause personal injury.

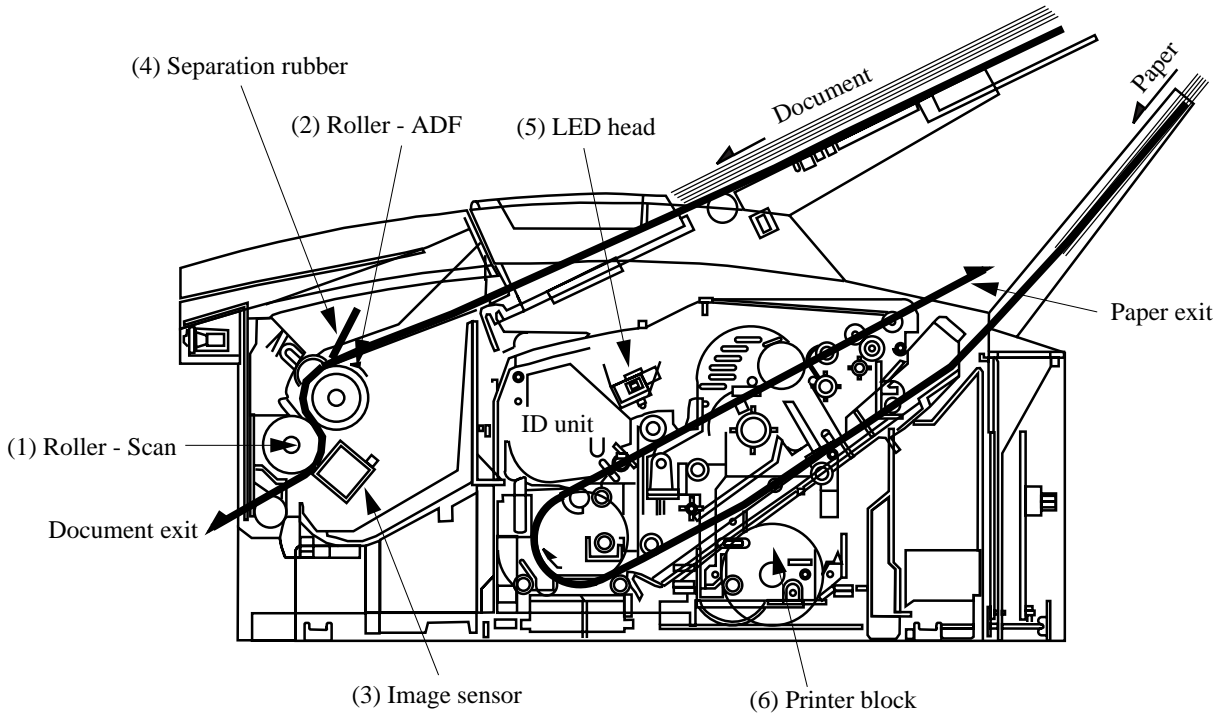
6.2 Preventative Maintenance

The recommended preventative maintenance of the following items should be performed twice a year (once a year is the absolute minimum) after the machine is installed. Table 6.2.1 describes the preventative maintenance procedures..

Preventative Maintenance (Table 6.2.1)

No.	Part name	Maintenance Procedure	Reference Item No. in Fig.6.2.1
1	Roller-scan	Clean with water.	(1)
2	Roller-ADF	Clean with water. 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. Clean with ethyl alcohol if necessary.	(3)
4	Separation Rubber	Clean with water. If this rubber is worn out, replace it. (once a 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 a cloth moisturized with cold water.	
7	Lubrication	Apply silicone oil to the following parts: a. Gears (once a year)	
8	Cleaning	Remove materials that have fallen from outside, if any.	

Preventative Maintenance Diagram (Figure 6.2.1)



6.3 Printer Counter Display/Clear (User)

1. Purpose

A user can clear the image drum counter (only when "Change Drum Soon" message is displayed) and also check some of the other counters (such as the print counter, scan counter) by using the ← key or → key.

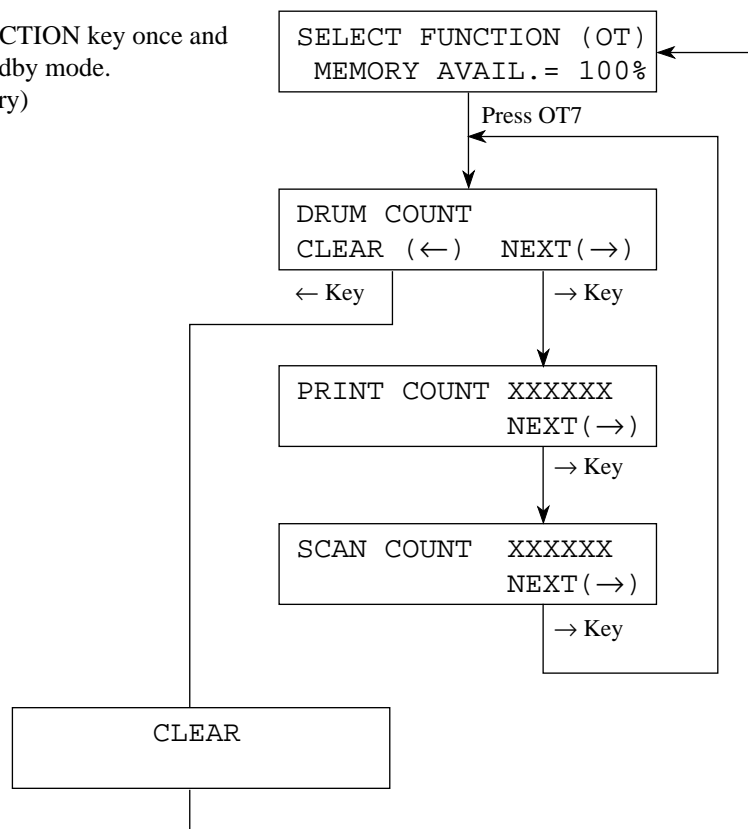
2. Procedure

The following example shows the menu flow when the service bit has been set **OFF**.

Operations:

- To begin, press SELECT FUNCTION key once and one-touch key No.7 in the standby mode. (with no message in the memory)
- Press ← key or → key.

The display shows:



Note: Clear Operation

After the drum counter is cleared, the warning message will disappear.

For further information regarding the "CHANGE DRUM SOON" message, refer to the Hardware Handbook (user's documentation).

6.4 Printer Counter Display/Clear (Service)

1. Purpose

The service personnel can clear and check the following counters.

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

Note:

DRUM (T) count is used to display the total in-use life of the machine. This counter cannot be cleared.

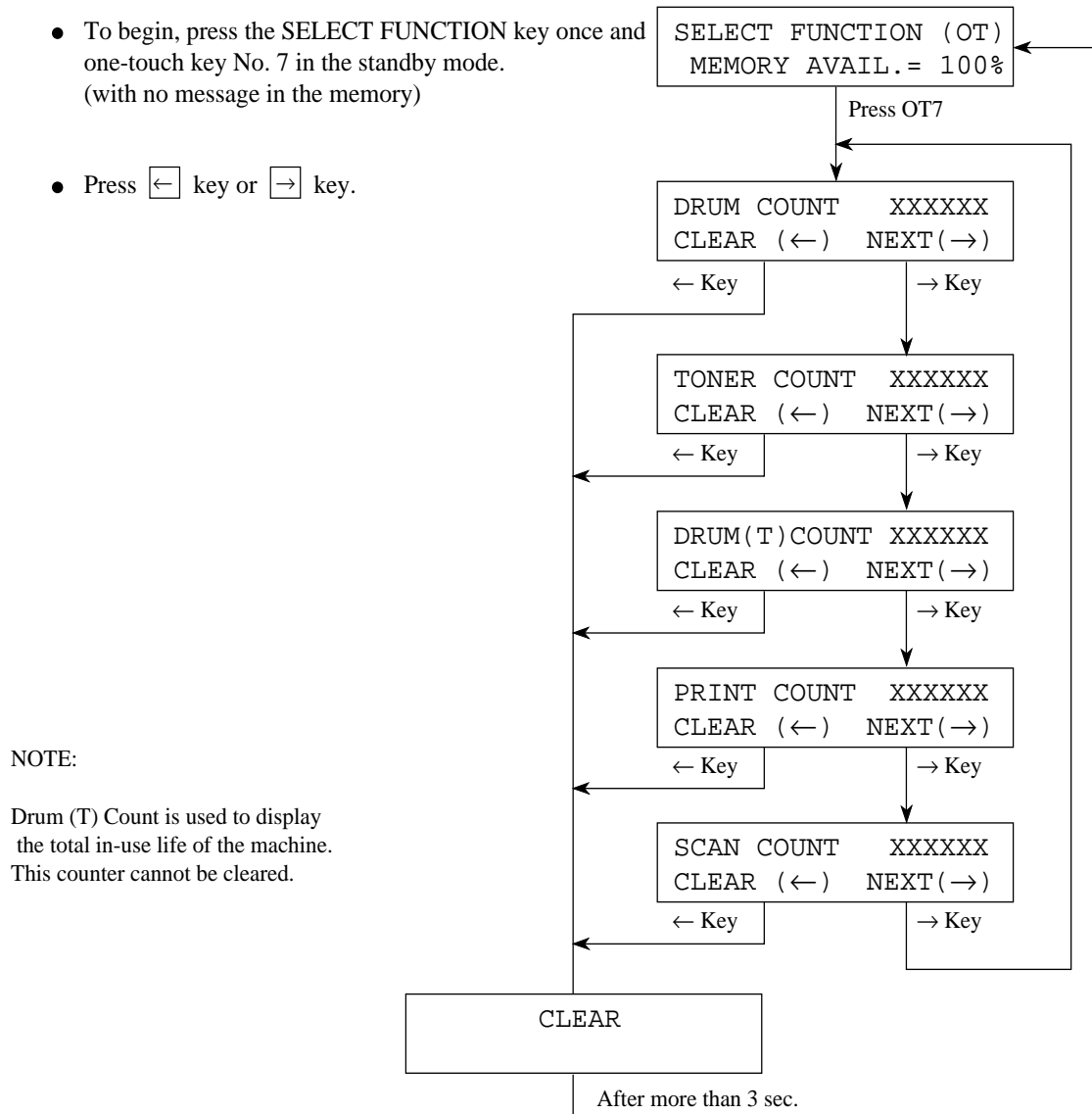
2. Procedure

The following example shows the menu flow when the service bit has been set ON.

Operations:

- To begin, press the SELECT FUNCTION key once and one-touch key No. 7 in the standby mode. (with no message in the memory)
- Press key or key.

The display shows:



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6.5 Self-Diagnosis Test

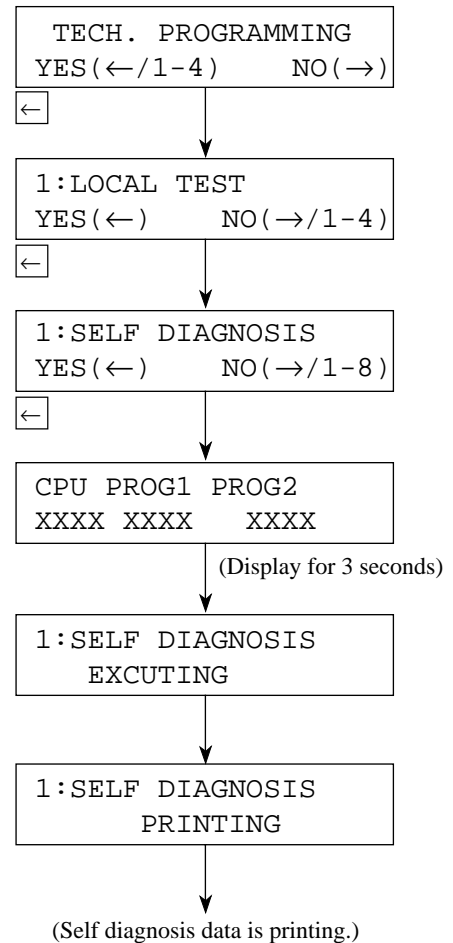
- Purpose**
To check ROMs, RAMs and printing function.
- Procedure**

Operations:

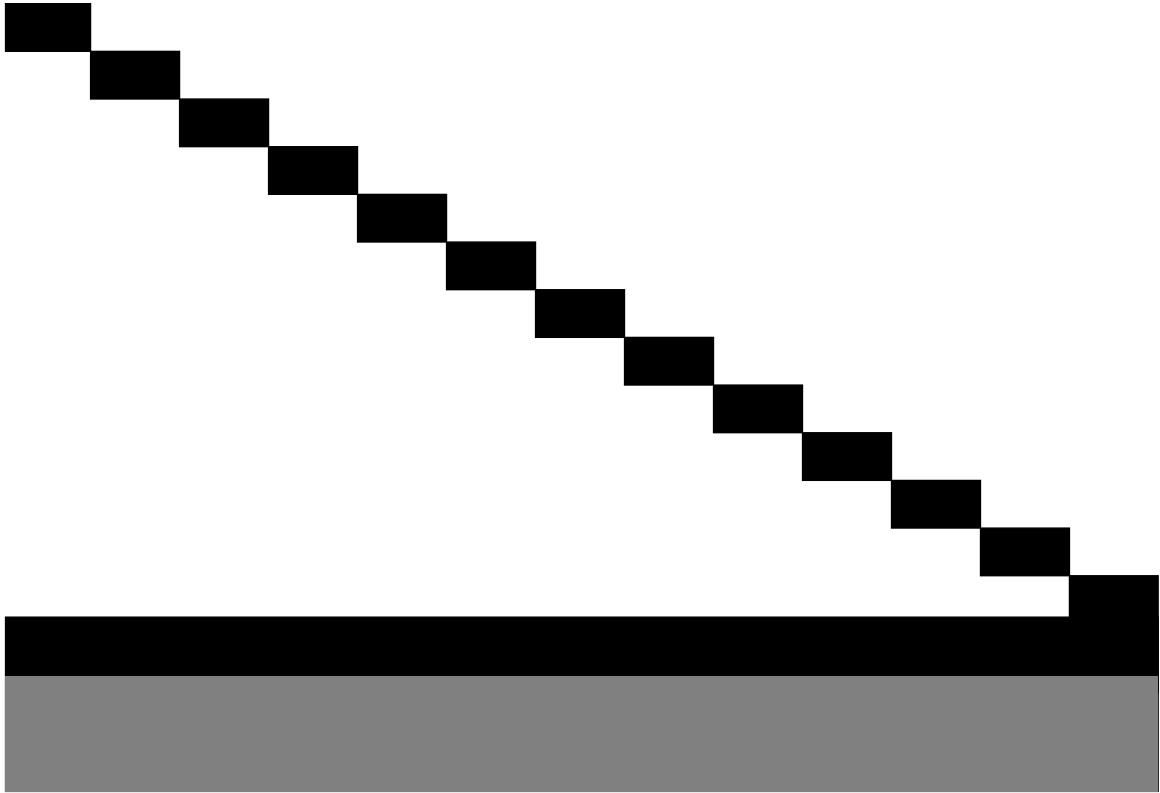
- To begin, press SELECT FUNCTION key once and COPY key twice in the standby mode. (With no message in the memory)
- Press key.
- Press key.
- Press key to activate self-diagnosis.

(Figure 6.5.1 shows the printed data.)

The display shows:



Self-Diagnosis Test Sample (Figure 6.5.1.)



```
CPU-ROM  VERSION  AA00
          HASH     OK   DACD
CPU-RAM           OK
PROG1   VERSION  AA00
PROG1   HASH     OK   3142
PROG2   VERSION  AA00
PROG2   HASH     OK   1234

LANGUAGE VERSION  LL10
          HASH     OK   3F06
DEFAULT  VERSION  DD10
          HASH     OK   A683
*1  RAM1           1M   OK

*2  OPT-RAM1       1M   OK
*2  OPT-I/F        PARALLEL
    DEFAULT TYPE   01   07/01/96
```

*1 marked item is shown for condition of all RAM except EXCEED RAM.

*2 marked items are options.

Explanation of Self-Diagnosis Test Items

a)	Pattern 1	All white (32 lines)	
b)	Pattern 2	Stair pattern (32 lines in each step)	
c)	Pattern 3	All black (32 lines)	
d)	Pattern 4	Alternate printing of black dots and white dots (32 lines x 2)	
e)	Pattern 5	All white (32 lines)	
f)	CPU-ROM VERSION		
	CPU-ROM	In case CPU-ROM is good.	HASH OK
		In case CPU-ROM is not good.	HASH NG
	CPU-RAM	In case CPU-RAM is good.	OK
		In case CPU-RAM is not good.	NG
g)	PROG1 VERSION		
	PROG1	In case PROG1 is good.	HASH OK
		In case PROG1 is not good.	HASH NG
h)	PROG2 VERSION		
	PROG2	In case PROG2 is good.	HASH OK
i)	LANGUAGE VERSION		
	LANGUAGE	In case LANGUAGE is good.	HASH OK
		In case LANGUAGE is not good.	HASH NG
j)	DEFAULT VERSION		
	DEFAULT	In case DEFAULT is good.	HASH OK
		In case DEFAULT is not good.	HASH NG
k)	RAM1	In case RAM _i is good.	OK
		In case RAM _i is not good.	NG
		("1" is RAM's number)	
l)	OPT-RAM1	In case OPT-RAM1 is good.	OK
		In case OPT-RAM1 is not good.	NG
m)	OPT-I/F	In case OPT-I/F is good.	PARALLEL
		In case OPT-I/F is not good.	(ALL BLANK)

- Figure 6.5.1 shows a printed sample.

NG = No Good

6.6 Sensor Calibration Test

1. Purpose

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

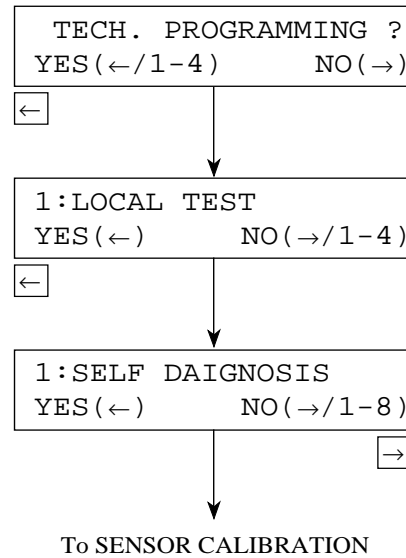
NOTE:

After adjusting the levels, check the copy quality of the unit.
Using the unit, make copies of test charts or known good documents.

Operations:

- To begin, press SELECT FUNCTION key once and COPY key twice in the standby mode. (with no message in the memory)
- Press key.
- Press key.

The display shows:



continued on the next page

Operations:

The display shows:

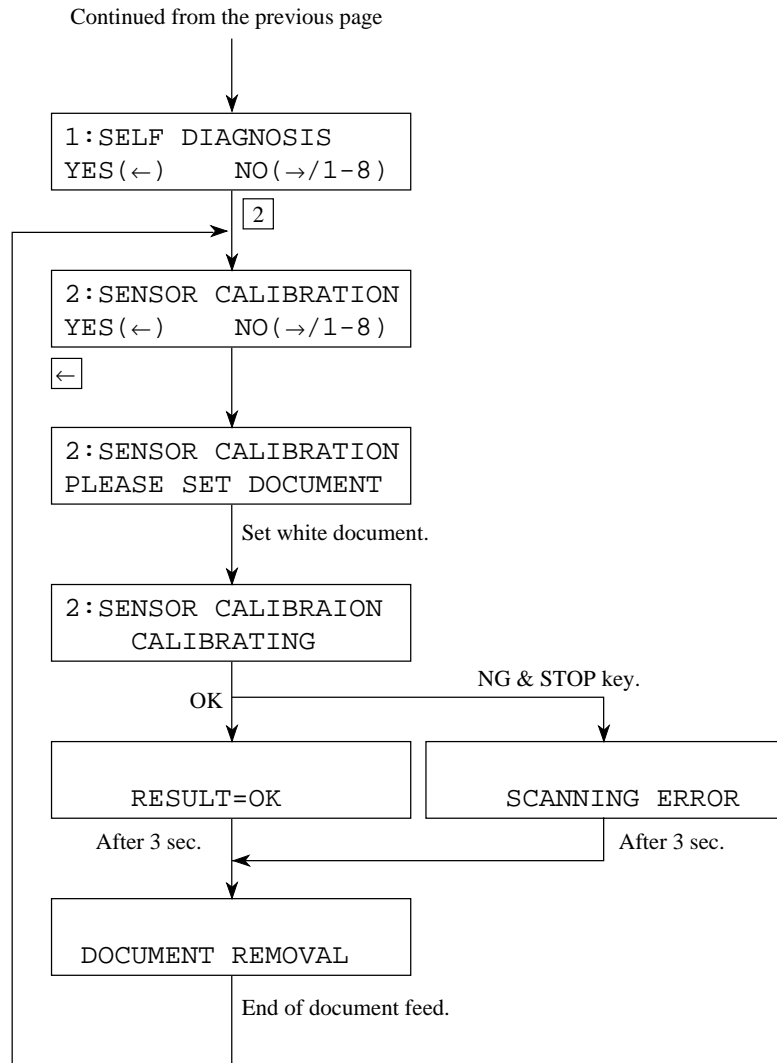
- Enter "2".

- Press key.

- Load document(s).
For adjustment of levels, use white plain bond paper(s) of NA Letter size.

- Press key.

- Observe and check the document feed operation.
Check that the followings do not occur:
Document skew.
Multiple document feeding.
No feeding.



NOTE:

After performing the adjustment, make copies of test charts or known good documents. Compare the copies to the originals to evaluate the copy print quality.

6.7 LED Test

1. Purpose

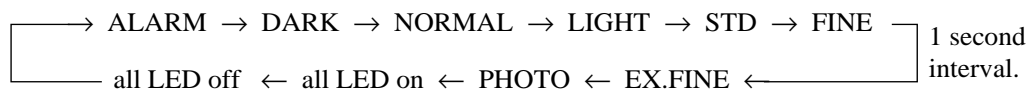
To check the operation of the LEDs on the operator panel.

2. Procedure

Operations:

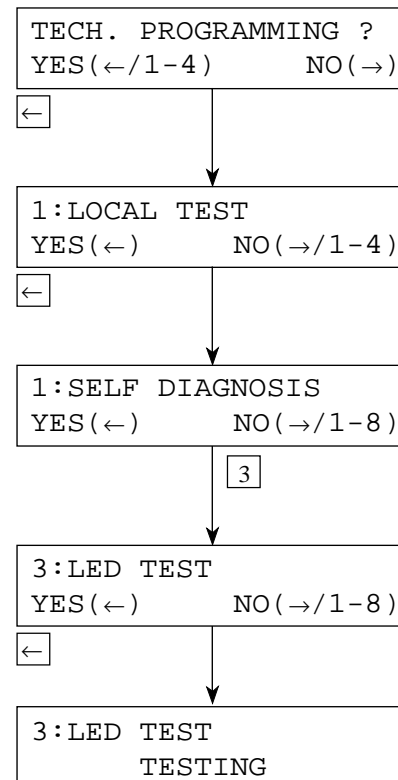
- To begin, press SELECT FUNCTION once and COPY key twice in the standby mode. (with no message in memory)
- Press key.
- Press key.
- Enter "3".
- Press key.
- Observe and check that LEDs are blinking.
- All LEDs will be sequentially turned on for one second in the following order.

(Start)



- To end the test, press STOP key.

The display shows:



6.8 Tone Send Test

1. Purpose

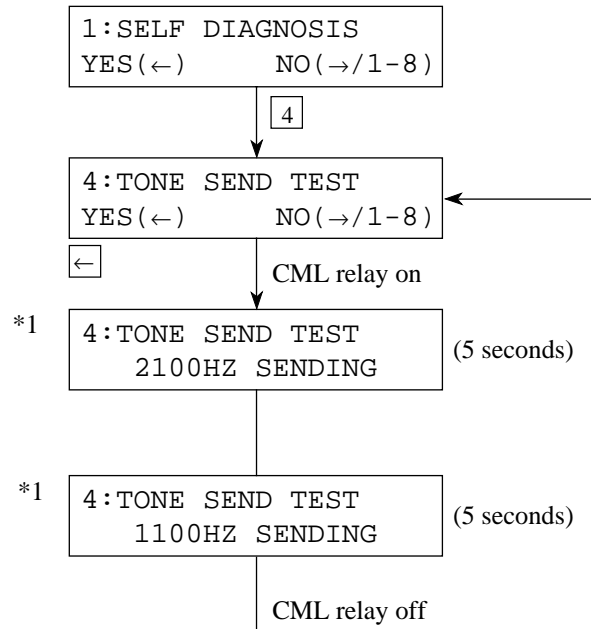
To send the G3 tonal frequencies to the line.

2. Procedure

Operations:

- To begin, press SELECT FUNCTION key once, COPY key twice and key twice. (with no message in memory)
- Enter "4".
- Press key.
- After the checking, press STOP key or end of the transmission.

The display shows:



*1: When the display indicates "2100Hz or 1100Hz SENDING", you may extend the tone send test for 30 more seconds by pressing the START key.

6.9 High-speed Modem Send Test

NOTE:

This procedure requires coordination with technical staff at the remote location.

In addition, both locations must have a telephone handset connected to each machine.

1. Purpose

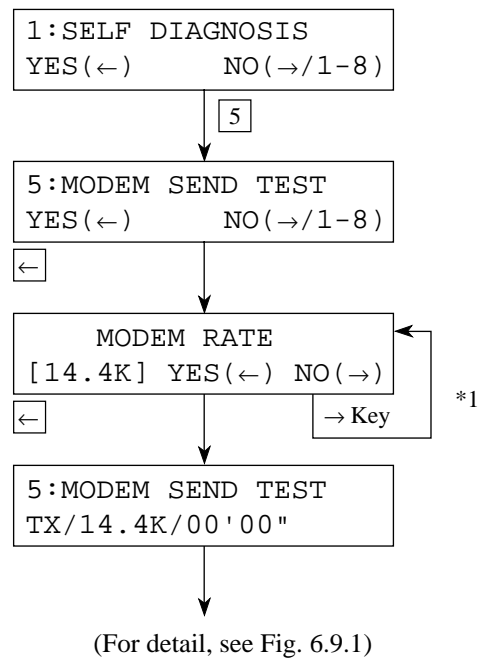
To check the telephone line quality in combination with a remote station programmed to the high-speed modem receive test mode.

2. Procedure

Operations:

- To begin, press SELECT FUNCTION key once, COPY key twice and key twice. (with 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.

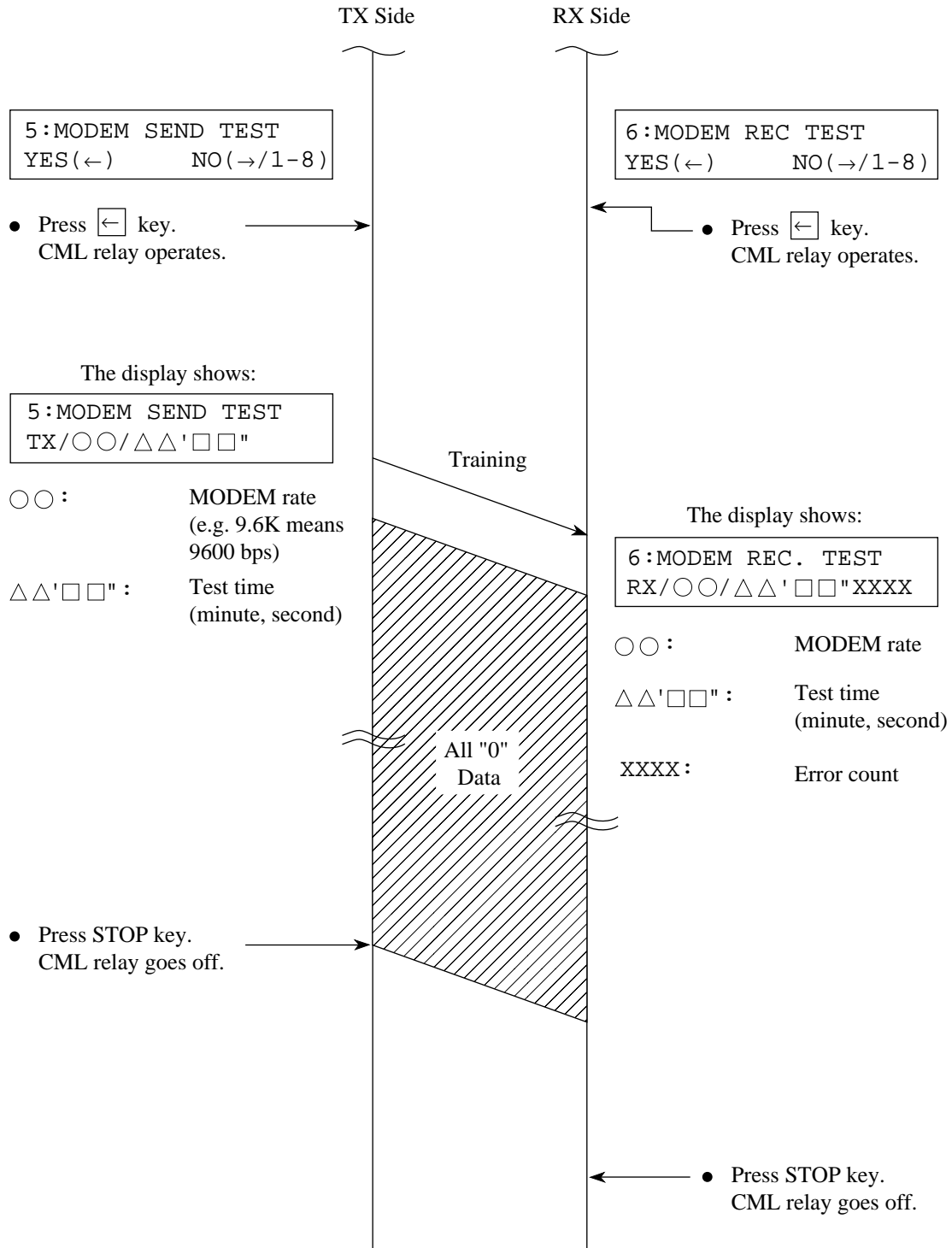
The display shows:



*1: → 33.6K (OKIFAX 5500/5600) → 28.8K (OKIFAX 5500/5600) → 14.4K → 12.0K → 9.6KT (V.17) → 0.3K ← 2.4K ← 4.8K ← 7.2K (V.29) ← 9.6K (V.29) ← 7.2KT (V.17)

33.6K and 28.8K are skipped for the MODEM without 33.6/28.8K bps function.

High-speed Modem Send and Receive Test Diagram (Figure 6.9.1)



6.10 High-speed Modem Receive Test

NOTE:

This procedure requires coordination with technical staff at the remote location.

In addition, both locations must have a telephone handset connected to each machine.

1. Purpose

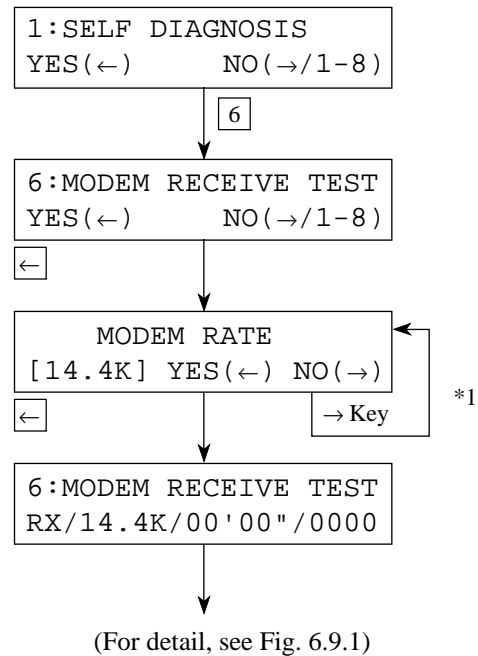
To check the telephone line quality in combination with a remote station programmed to the high-speed modem send test mode.

2. Procedure

Operations:

- To begin, press SELECT FUNCTION key once, COPY key twice and key twice. (with 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 →

6.11 MF Send Test

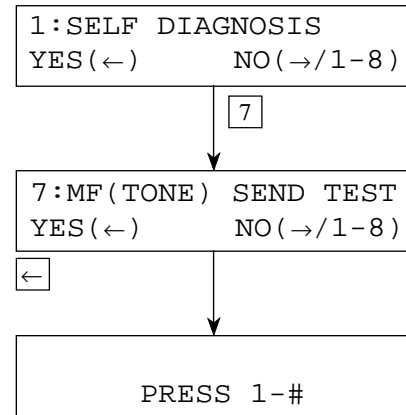
- Purpose**
To send the multi-frequencies of tone dialling to the line.
- Procedure**

Operations:

- To begin, press SELECT FUNCTION key once, COPY key twice and key twice. (with 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:



6.12 Tone (TEL/FAX)

1. Purpose

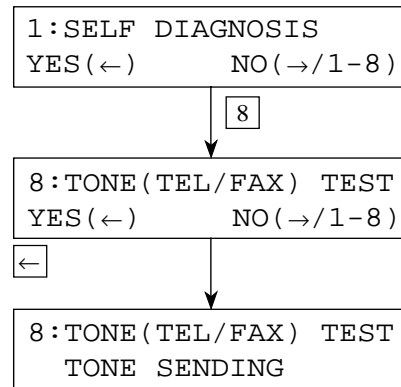
To check the pseudo-ring back tone of TEL/FAX automatic switching.

2. Procedure

Operations:

- To begin, press SELECT FUNCTION key once, COPY key twice and key twice. (with no message in memory)
- Enter 8.
- Press key.
- After the test, press STOP key.

The display shows:



6.13 Protocol Data Dump Printing

NOTE:

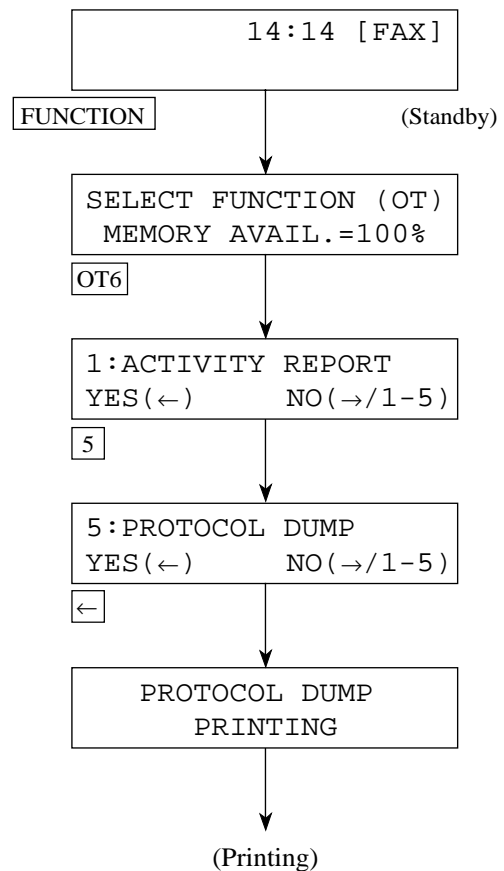
Technical Function 1 (Service Bit) must be set to ON to print the Protocol Data Dump.

1. **Purpose**
To analyze the transmitted/received G3 protocol signals.
 2. **Procedure**
 - Manual printout of the last communication.
- (a) Manual printout

Operations:

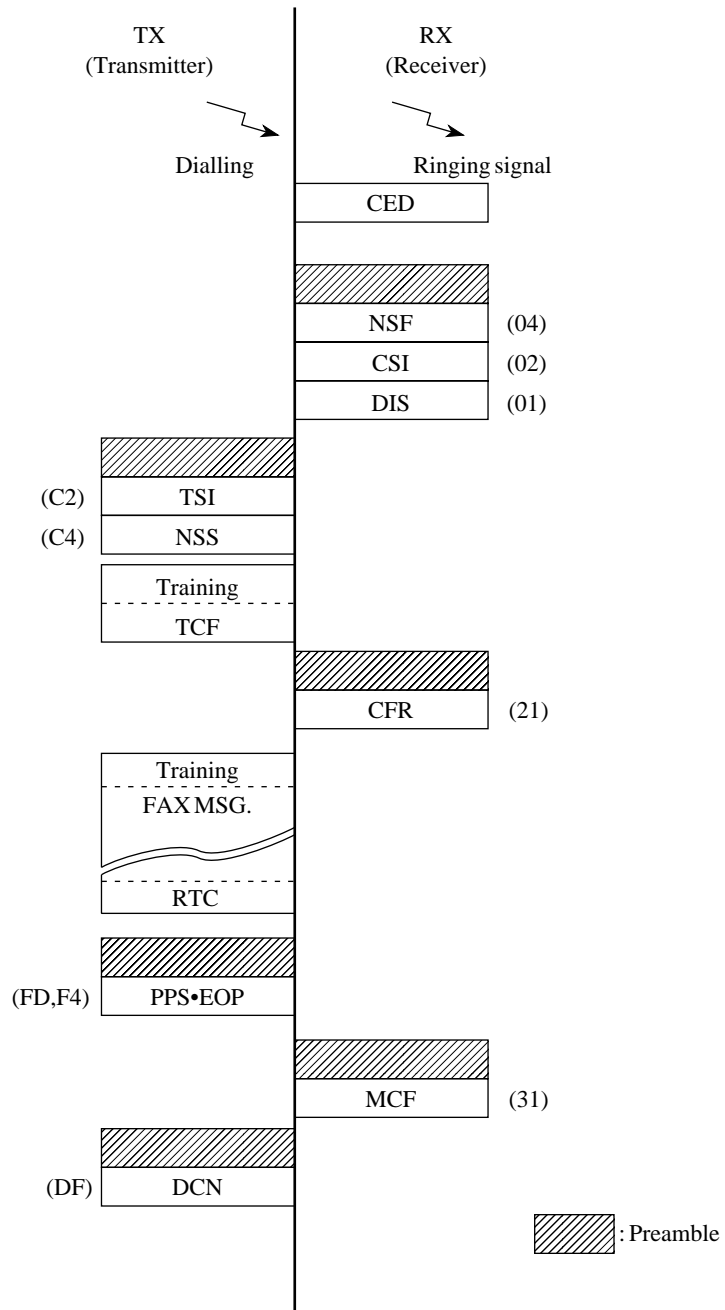
- **Verify that Technical Function 1 (Service Bit) is set to ON.**
Then, press SELECT FUNCTION key.
- Press one-touch key No.6
- Enter 5.
- Press key.

The display shows:



Data Analysis (Figure 6.13.2)

The printed out data permits to analyze G3 facsimile communication protocol signals between two facsimile machines. Figure 6.13.2 shows the result of an analysis on the printed data referring to Figure 6.13.1 (Protocol Data Dump).



Facsimile Control Field Conversion Table

Table 6.14.1 shows all Facsimile Control Field (FCF) signals which are needed to analyze the printed out protocol dump data.

Some signals have two different hexadecimal codes in accordance with the calling party or called party.

Table 6.14.1 FCF Signals Conversion Table

Abbreviation	Hex. Codes		Description of function
NSF	04		Non-Standard Facilities
CSI	02		Called Subscriber Identification
DIS	01		Digital Identification Signal
NSC	84		Non-Standard Facilities Command
CIG	82		Calling Subscriber Identification
DTC	81		Digital Transmit Command
NSS	44	C4	Non-Standard Set-Up
TSI	42	C2	Transmitting Subscriber Identification
DCS	41	C1	Digital Command Signal
CFR	21	A1	Confirmation to Receive
MCF	31	B1	Message Confirmation
FTT	22	A2	Failure to Train
MPS	72	F2	Multi-Page Signal
EOM	71	F1	End of Message
EOP	74	F4	End of Procedure
RTP	33	B3	Retrain Positive
RTN	32	B2	Retrain Negative
PIP	35	B5	Procedure Interrupt Positive
PIN	34	B4	Procedure Interrupt Negative
PRI-MPS	7A	FA	Procedure Interrupt-MPS
PRI-EOM	79	F9	Procedure Interrupt-EOM
PRI-EOP	7C	FC	Procedure Interrupt-EOP
DCN	5F	DF	Disconnect
ECM			Error Correction Mode
CRP	58	D8	Command Repeat
CTC	48	C8	Continue to Correct
CTR	23	A3	Response to Continue to Correct
EOR	73	F3	End of Retransmission
ERR	38	B8	Response to End of Retransmission
FCD	60		Facsimile Coded Data
PPS	7D	FD	Partial Page Signal
PPR	3D	BD	Partial Page Request
RCP	61		Return to Control for Partial Page
RNR	37	B7	Receiver not Ready
RR	76	F6	Receiver Ready

6.14 System Reset

1. Purpose

To clear or initialize the following data to factory default settings.

- (a) Location data
 - One Touch Locations
 - Auto Dial Locations
 - Group Dial Programming
- (b) Configuration data (default)
 - User Functions
 - Technical Functions

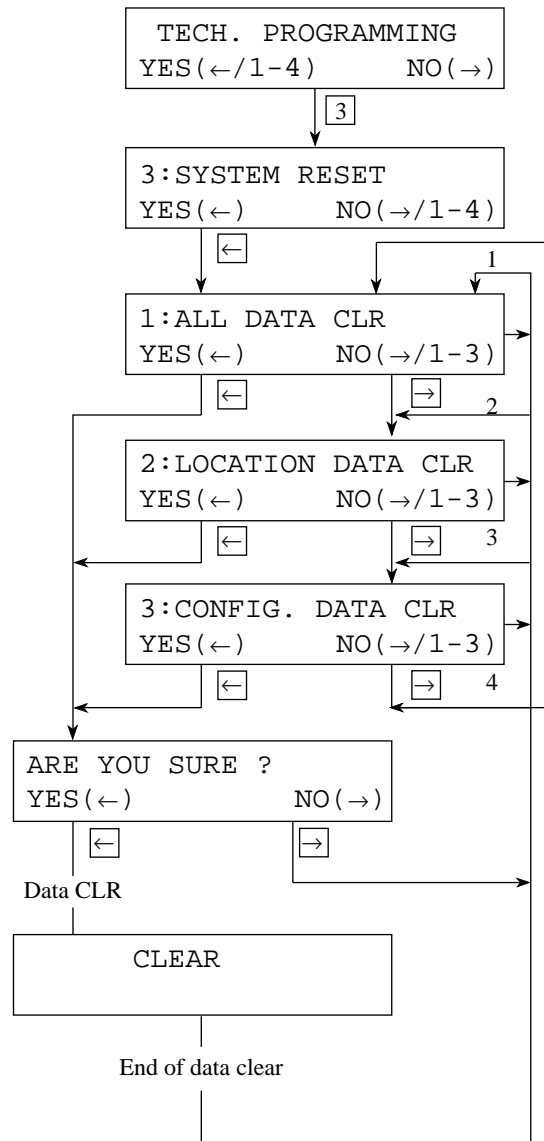
2. Procedure

Operations:

- To begin, press SELECT FUNCTION key, COPY key twice, key and key. (With no message in the memory)
- Enter 3.

Note: ALL DATA CLEAR is to clear or initialize (a) to (b).

The display shows:



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6.15 Service Code

- 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

Service Code List [Table 6.15.1] (1/2)

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.
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.
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.
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.
39C0	DECODER hardware error. (cannot reproduce picture)

Service Code List [Table 6.15.1] (2/2)

Code	Description
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.
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.
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.
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.

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Section 7: Troubleshooting

7.1 Overview

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)
7.1.1	Overall troubleshooting flow chart	X	X	
7.1.2	No LCD operation	X		
7.1.3	ALARM LED on	X		
7.1.4	Printing test failure	X	X	
7.1.5	No local copy	X	X	
7.1.6	Auto dial failure	X		
7.1.7	Transmission problem	X		
7.1.8	Auto reception failure	X		
7.1.9	Reception problem	X		
7.1.10	Sensor calibration test		X	
7.1.11	LED test		X	
7.1.12	Tone send test		X	
7.1.13	High-speed modem test		X	
7.1.14	MF (Tone) send test		X	
7.1.15	Tone (TEL/FAX) send test		X	
7.1.16	No acoustic line monitor	X		
7.1.17	Power supply unit	X		
7.1.18	No document feeding			X
7.1.19	Multiple document feeding			X
7.1.20	Document skew			X
7.1.21	Document jam			X
7.1.22	Printer unit			

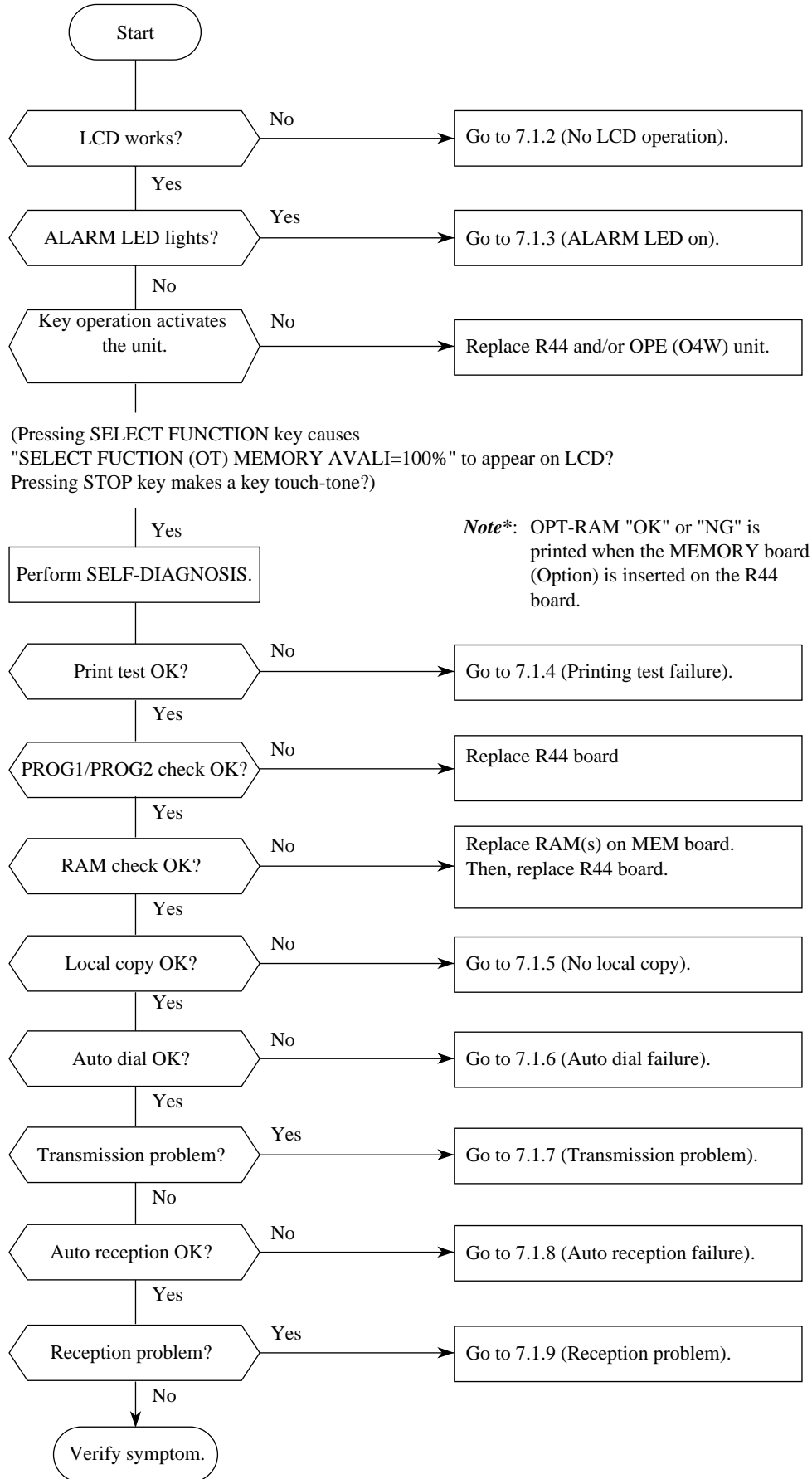
Service Caution

The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

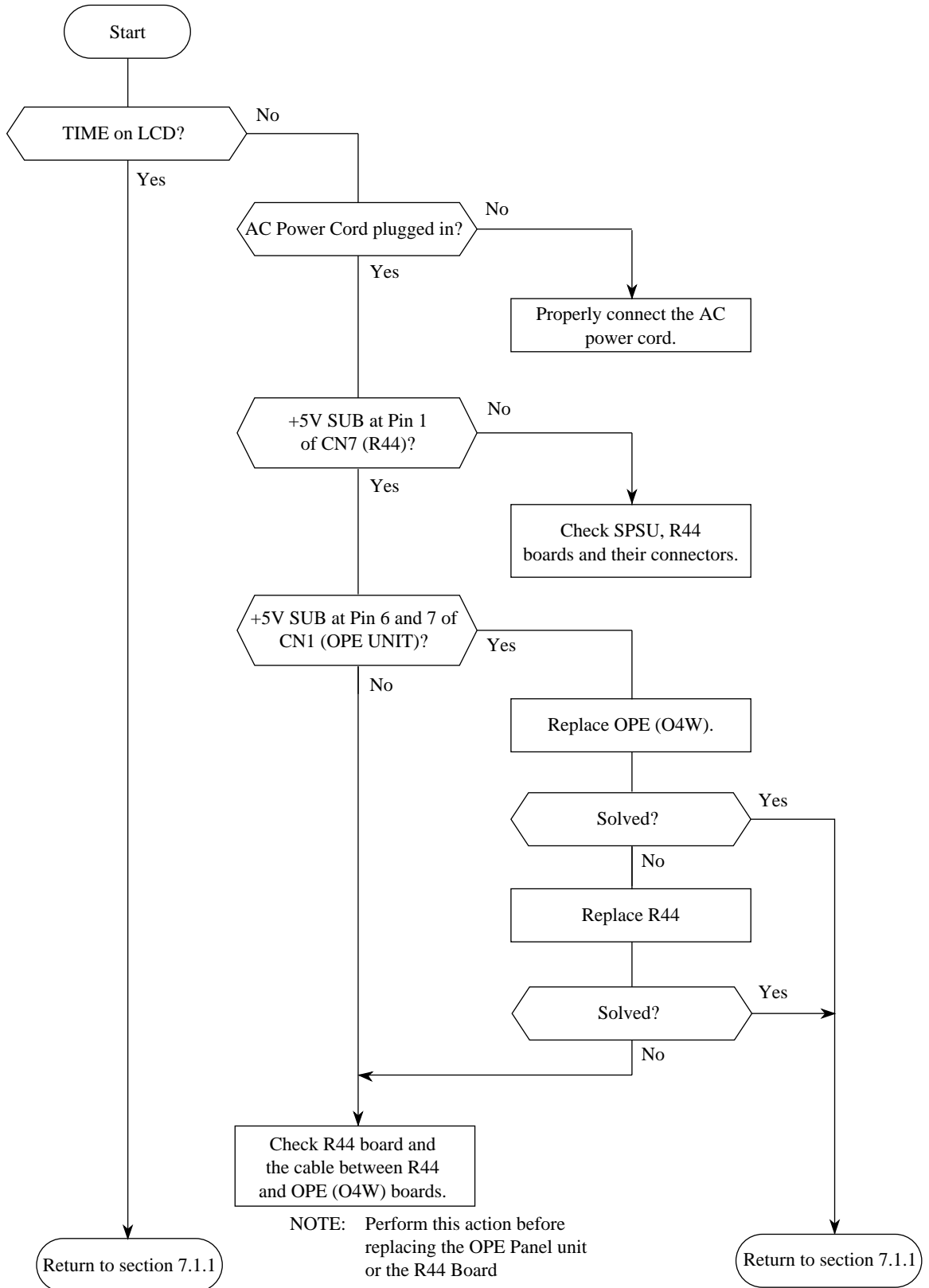
OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

7.1.1 Overall Troubleshooting Flow Chart

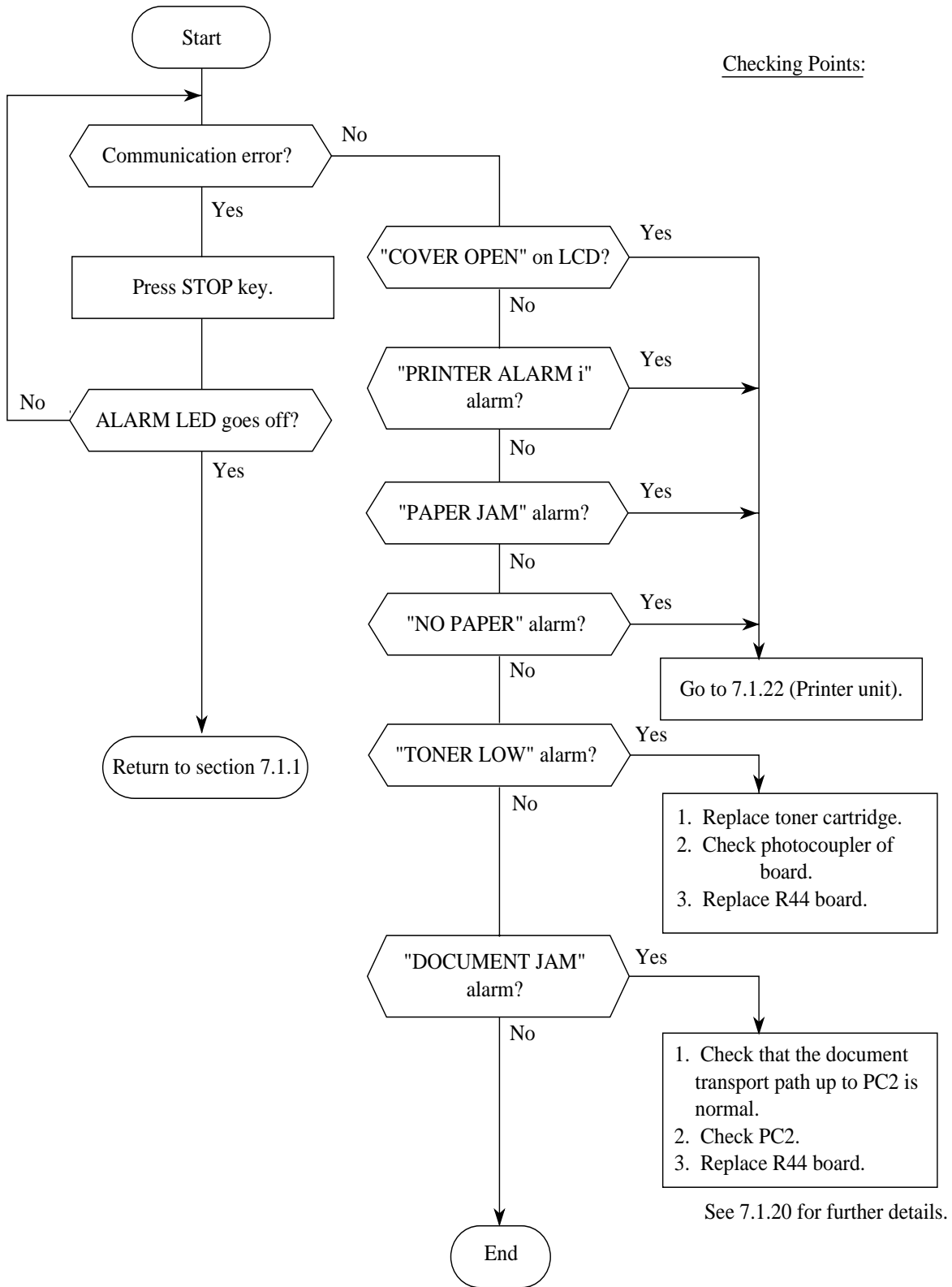
NOTE: R44 Board for OKIOFFICE 44 is designated as the MCNT Board in this flowchart.



7.1.2 No LCD Operation

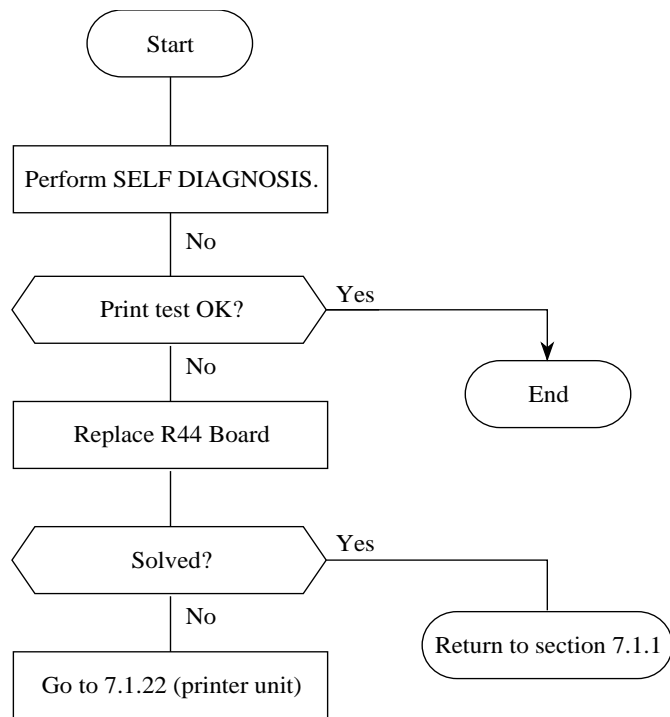


7.1.3 ALARM LED On

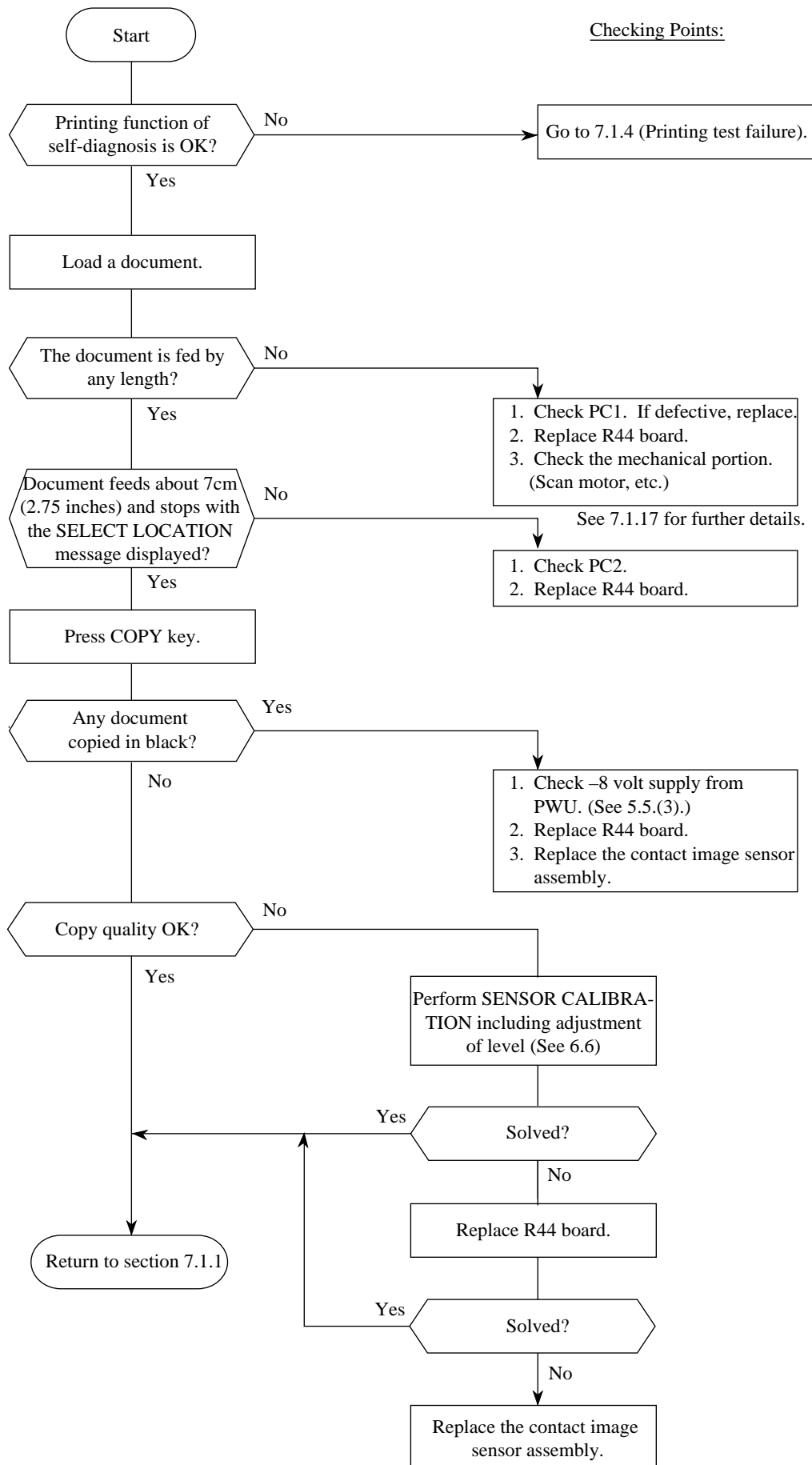


Note* : "PRINTER ALARM i" will be shown as follows:
PRINTER ALARM 1 to PRINTER ALARM 4.

7.1.4 Printing Test Failure

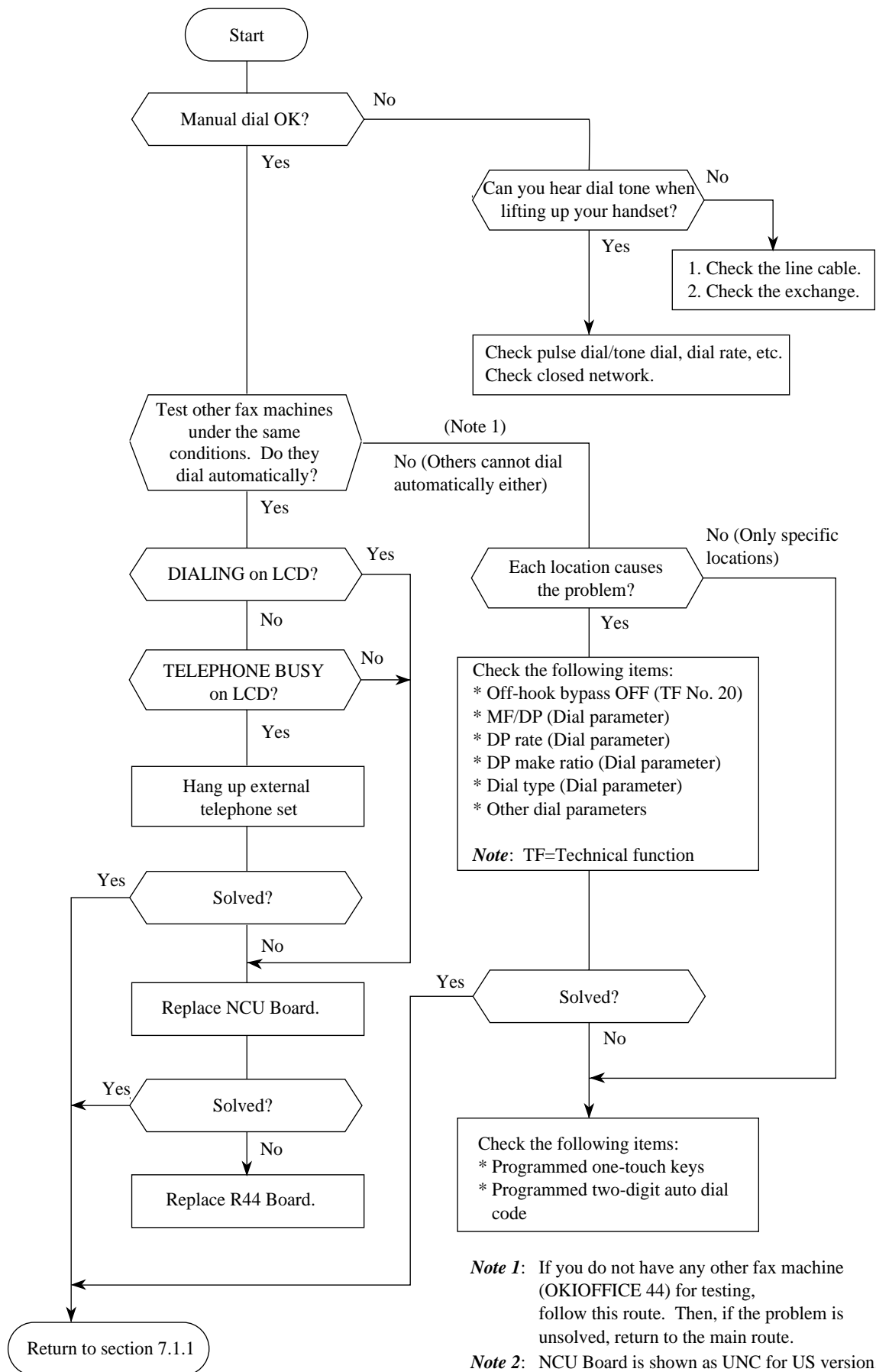


7.1.5 No Local Copy



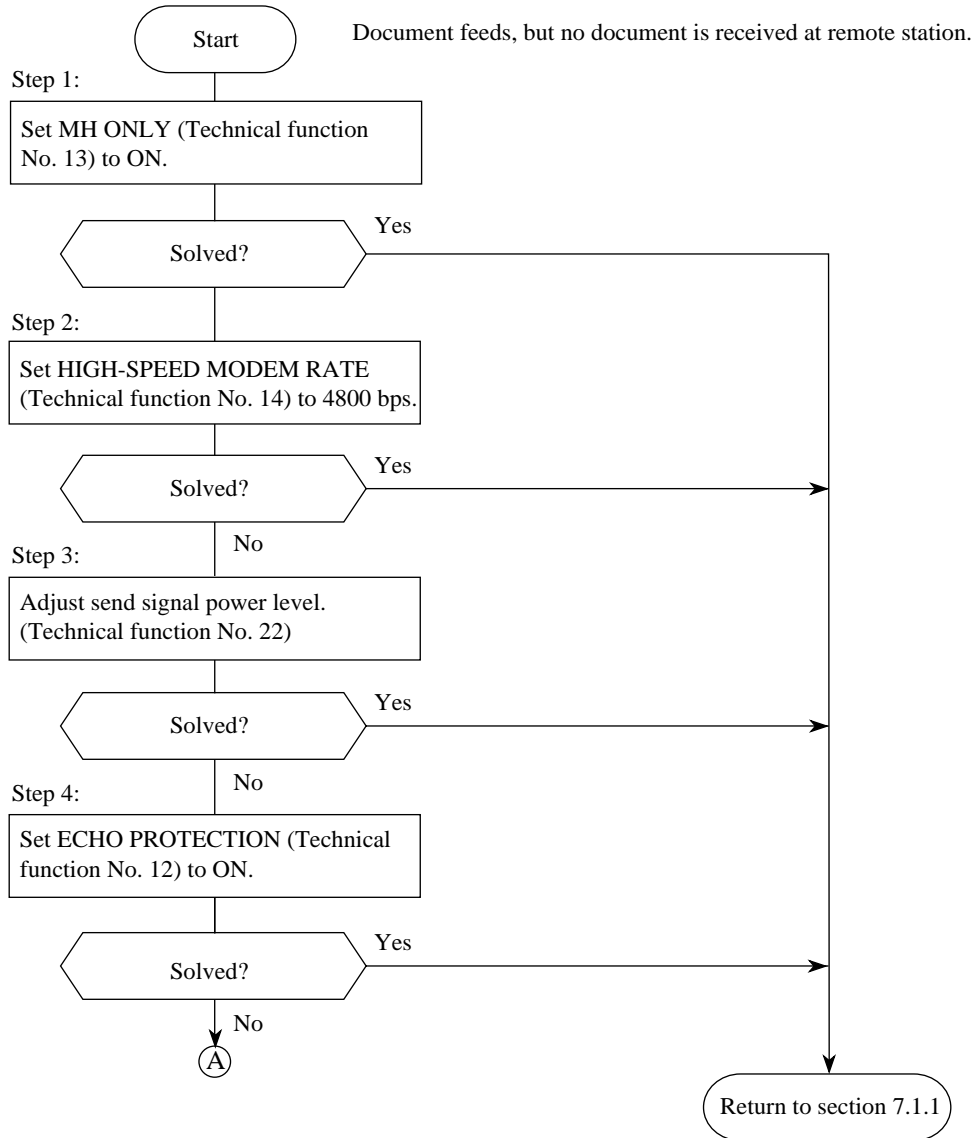
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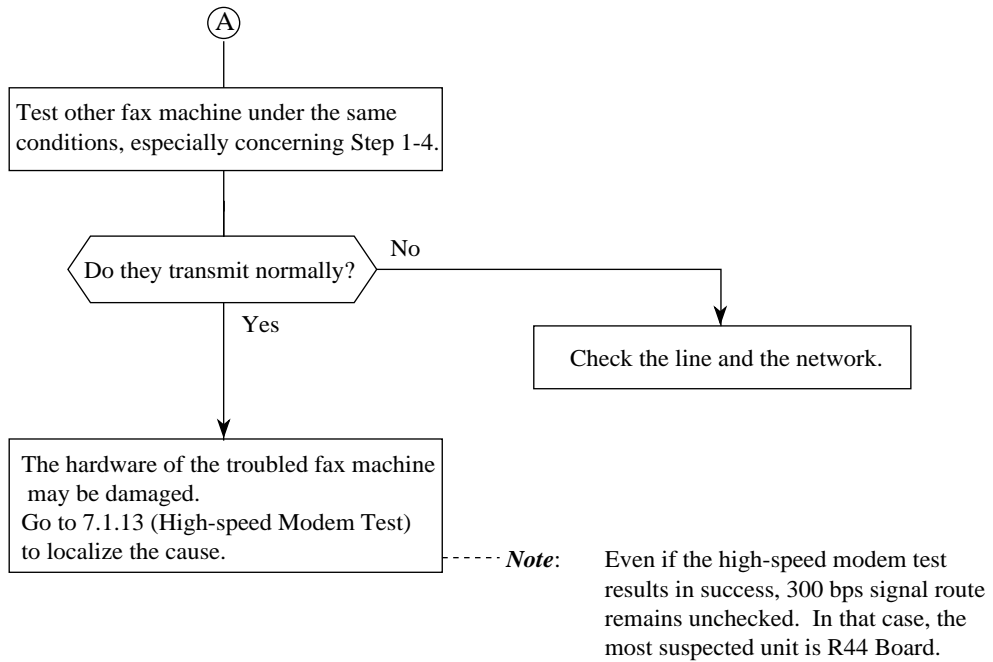
7.1.6 Auto Dial Failure



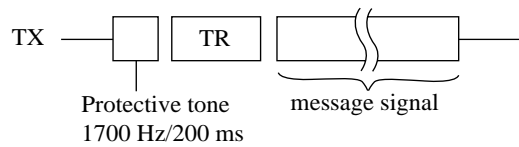
7.1.7 Transmission Problem

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



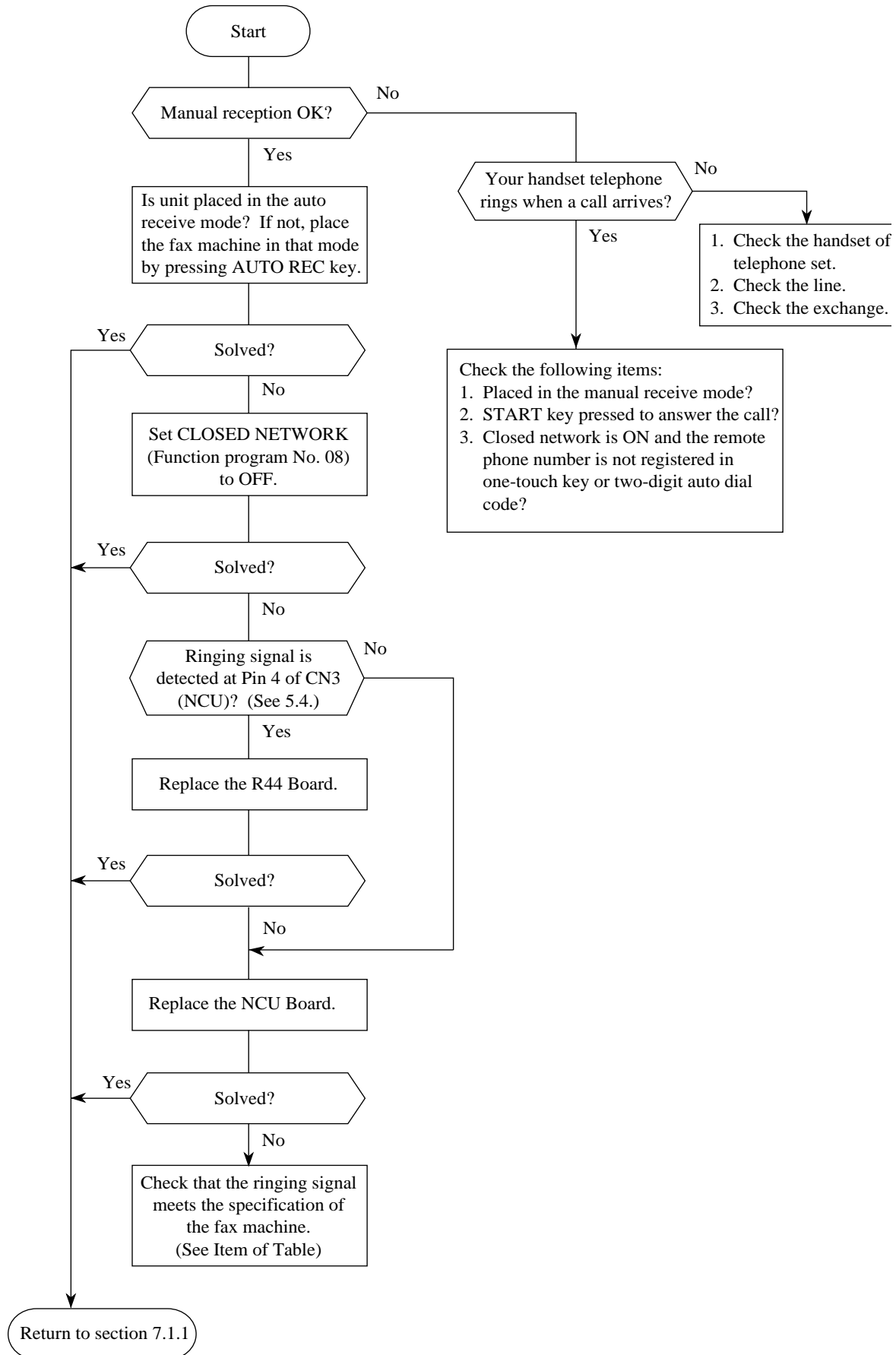


Description: Protective tone is 1700 Hz/200 ms.
This signal is added to training signal to protect the training signal against echo as follows.



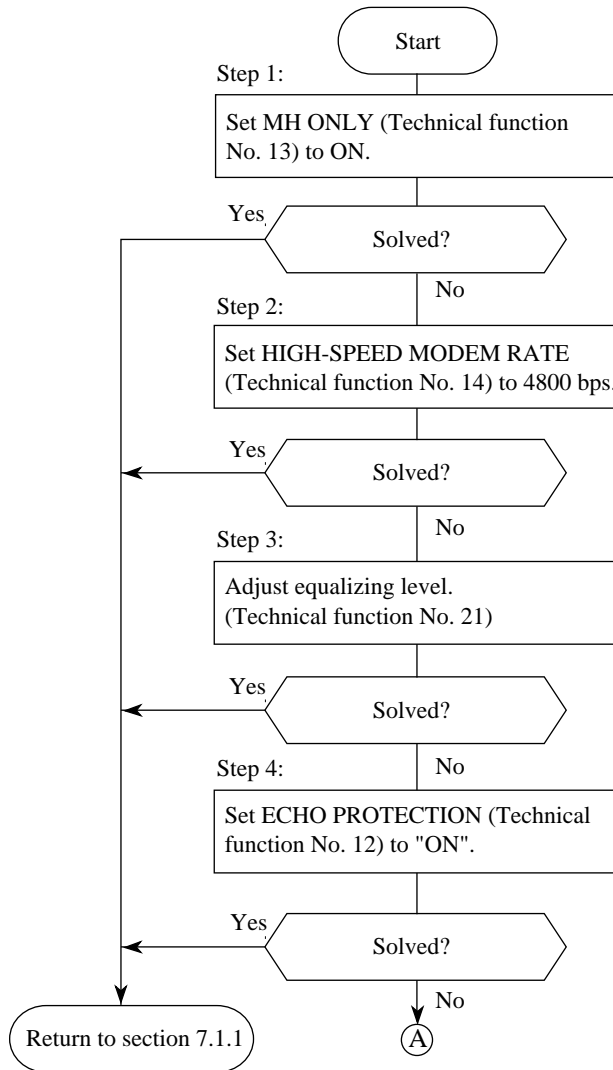
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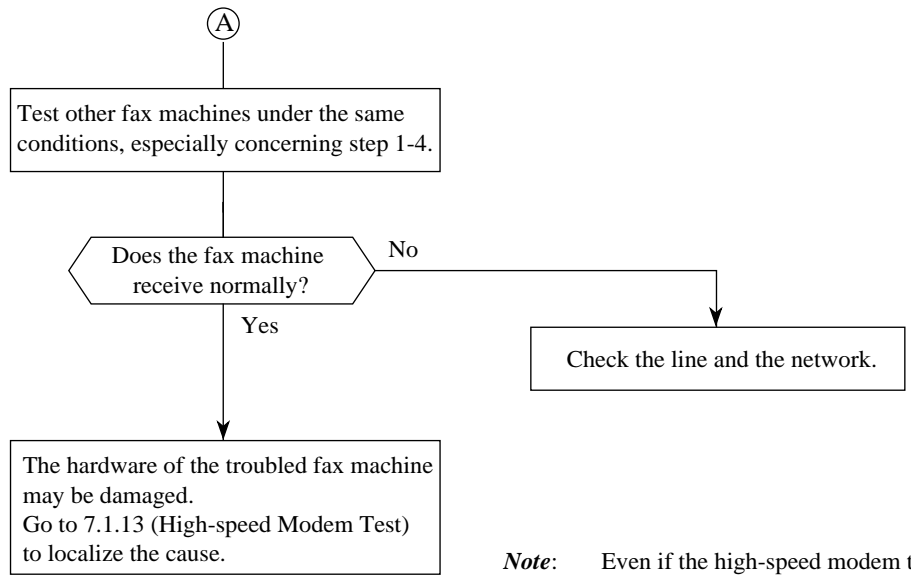
7.1.8 Auto Reception Failure



7.1.9 Reception Problem

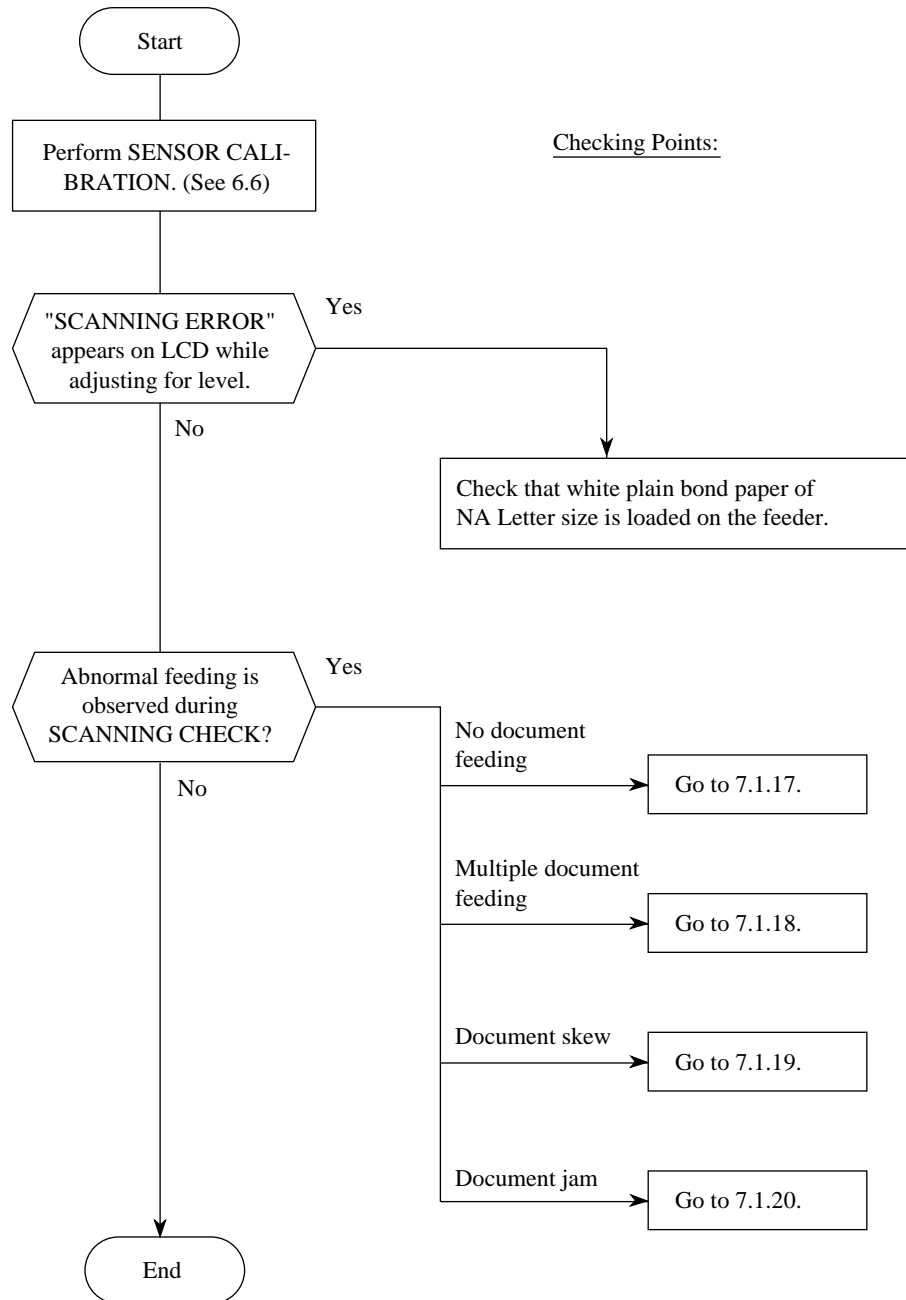
This section explains how to localize the cause of problems occurred after completion of connection with a remote station.



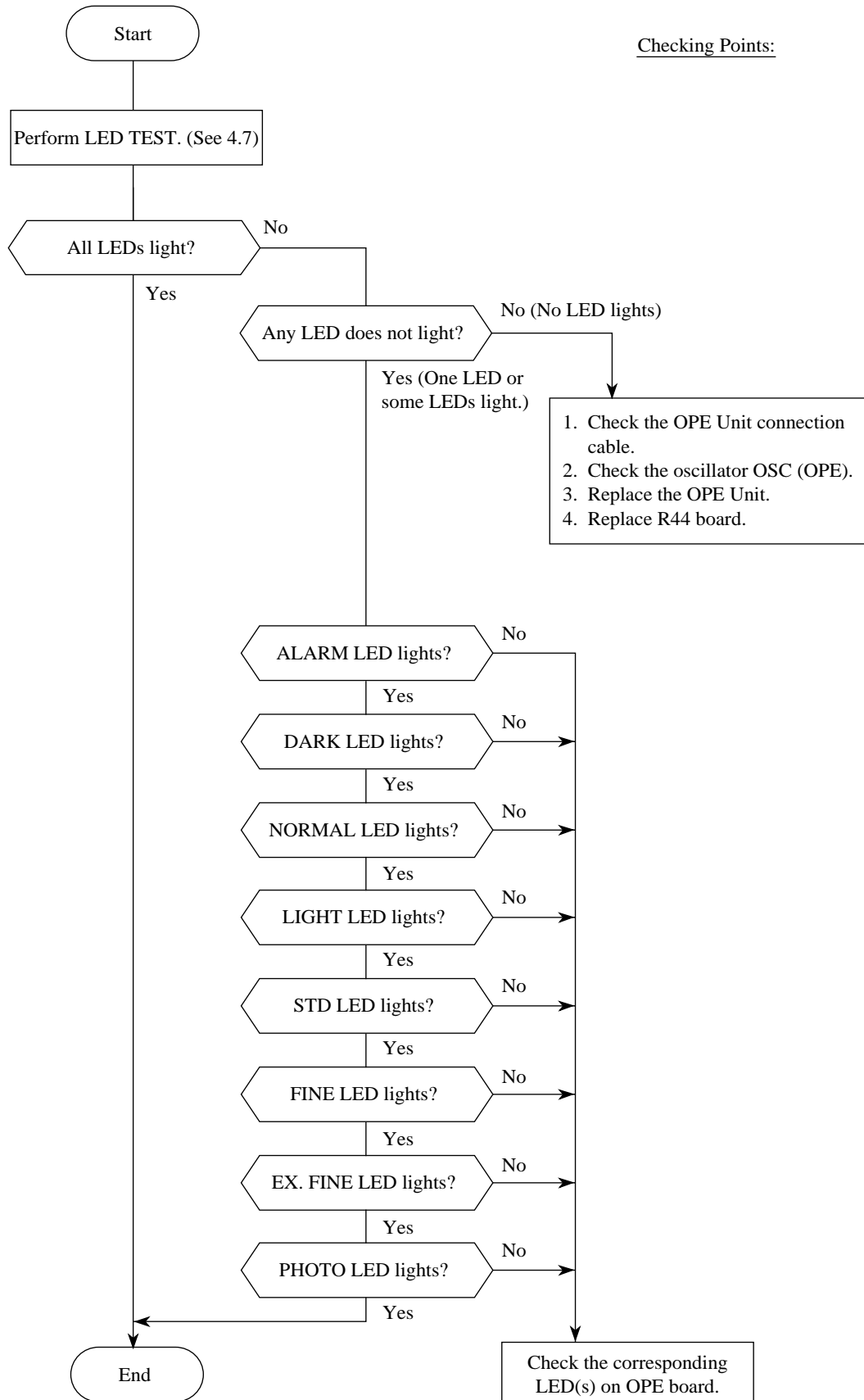


Note: Even if the high-speed modem test results in success, 300 bps signal route remains unchecked. In that case, the most suspected unit is R44 board.

7.1.10 Sensor Calibration Test

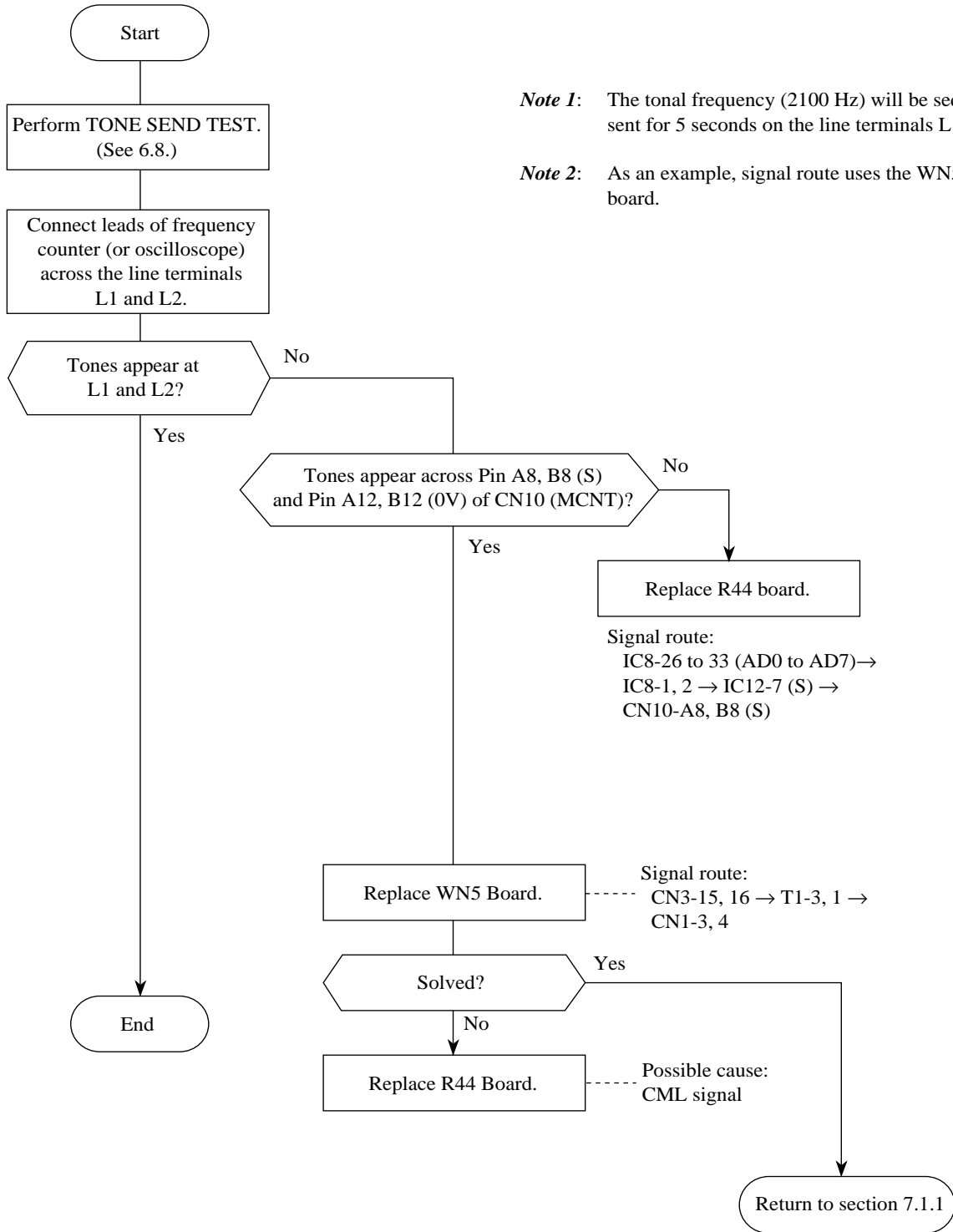


7.1.11 LED Test



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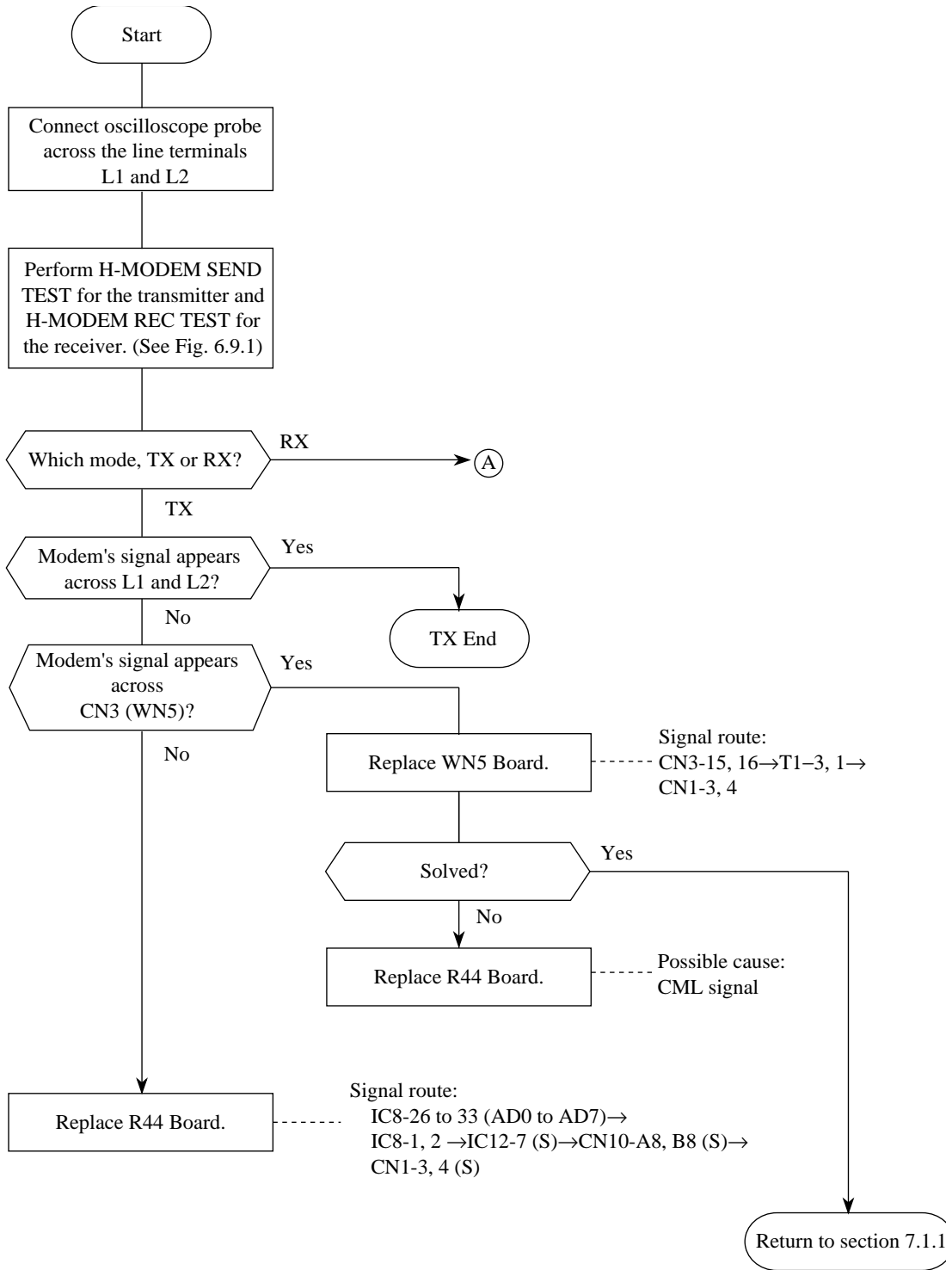
7.1.12 Tone Send Test

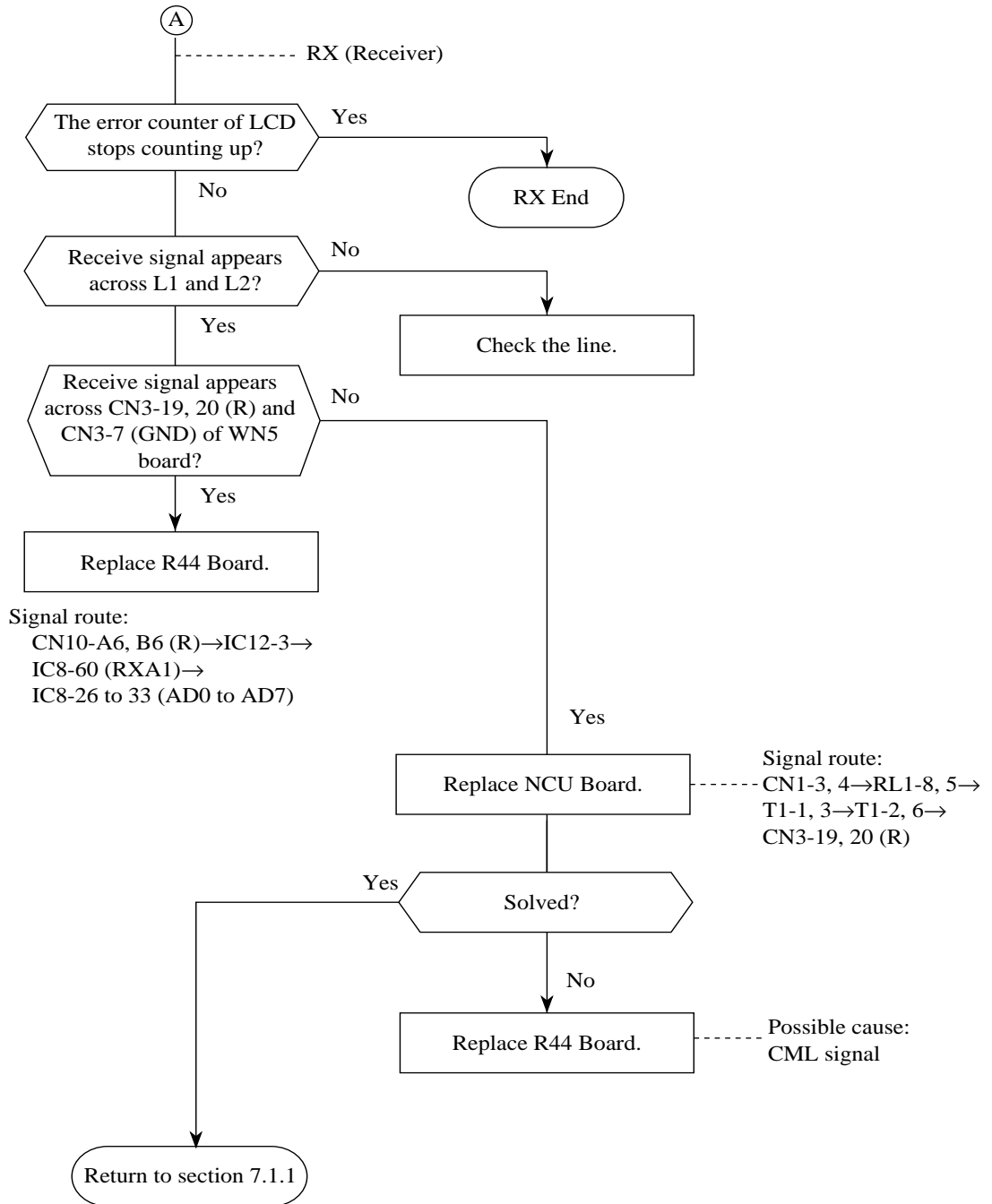


Note 1: The tonal frequency (2100 Hz) will be sequentially sent for 5 seconds on the line terminals L1 and L2.

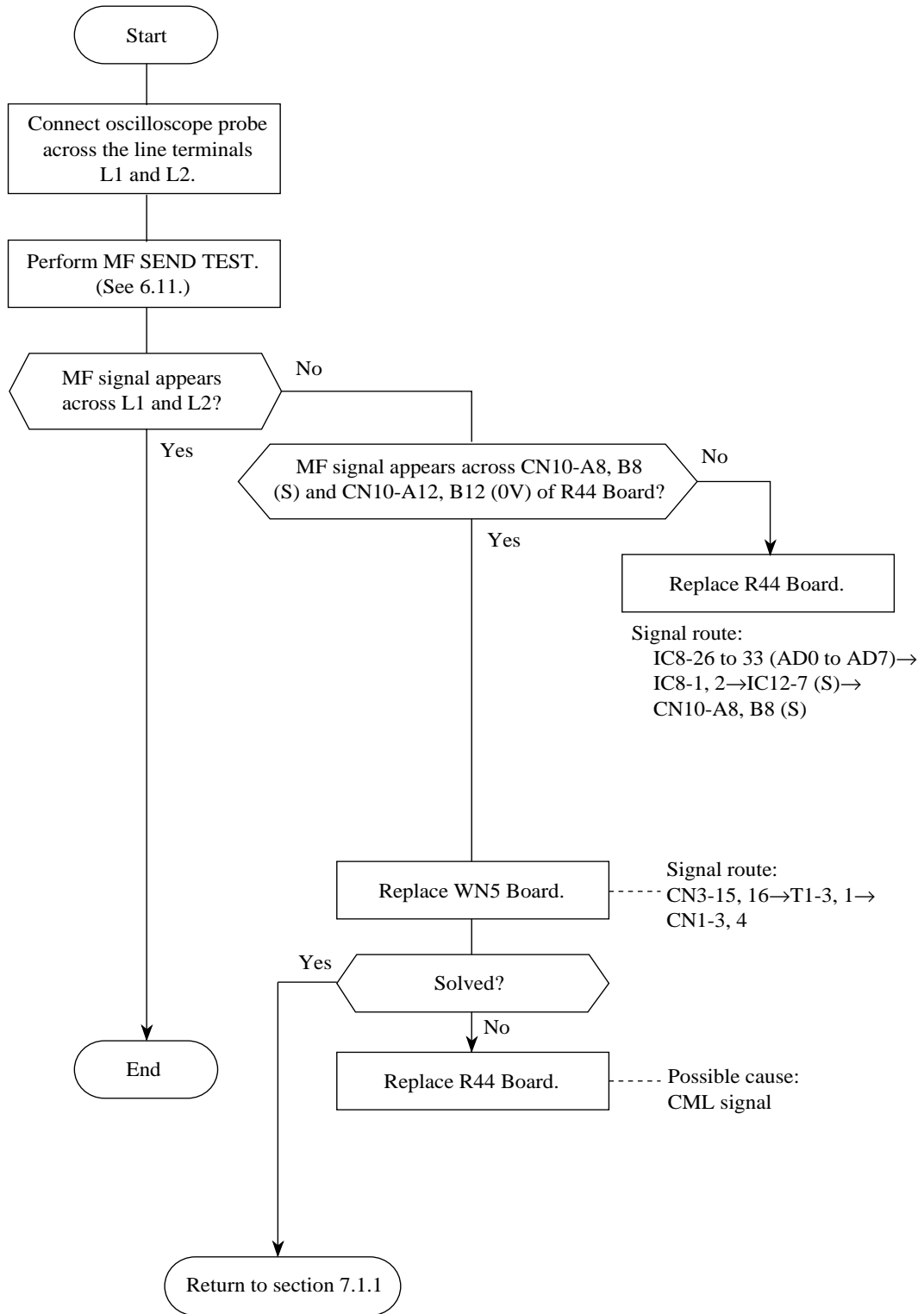
Note 2: As an example, signal route uses the WN5 (NCU) board.

7.1.13 High-speed Modem Test

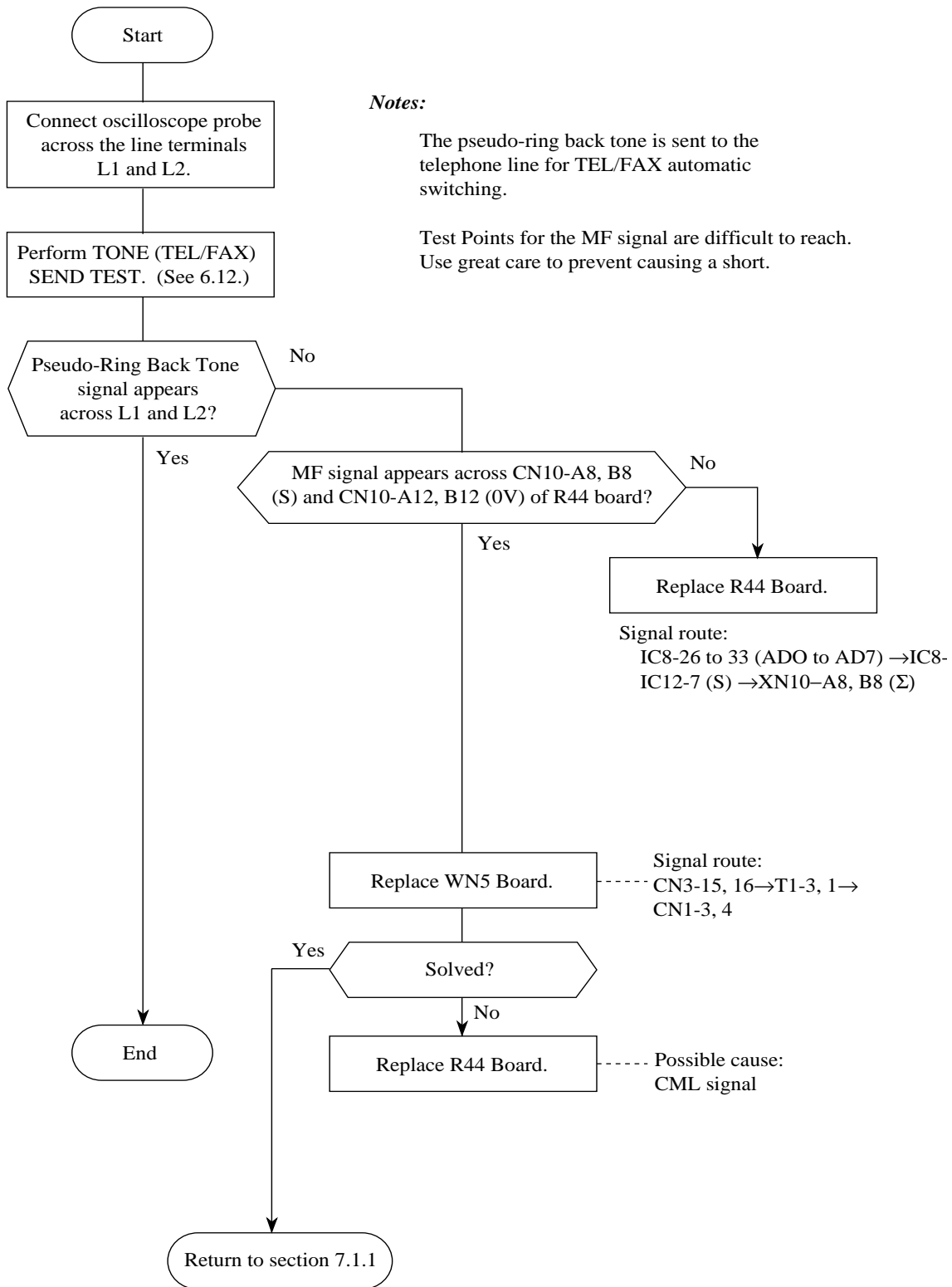




7.1.14 MF Send Test



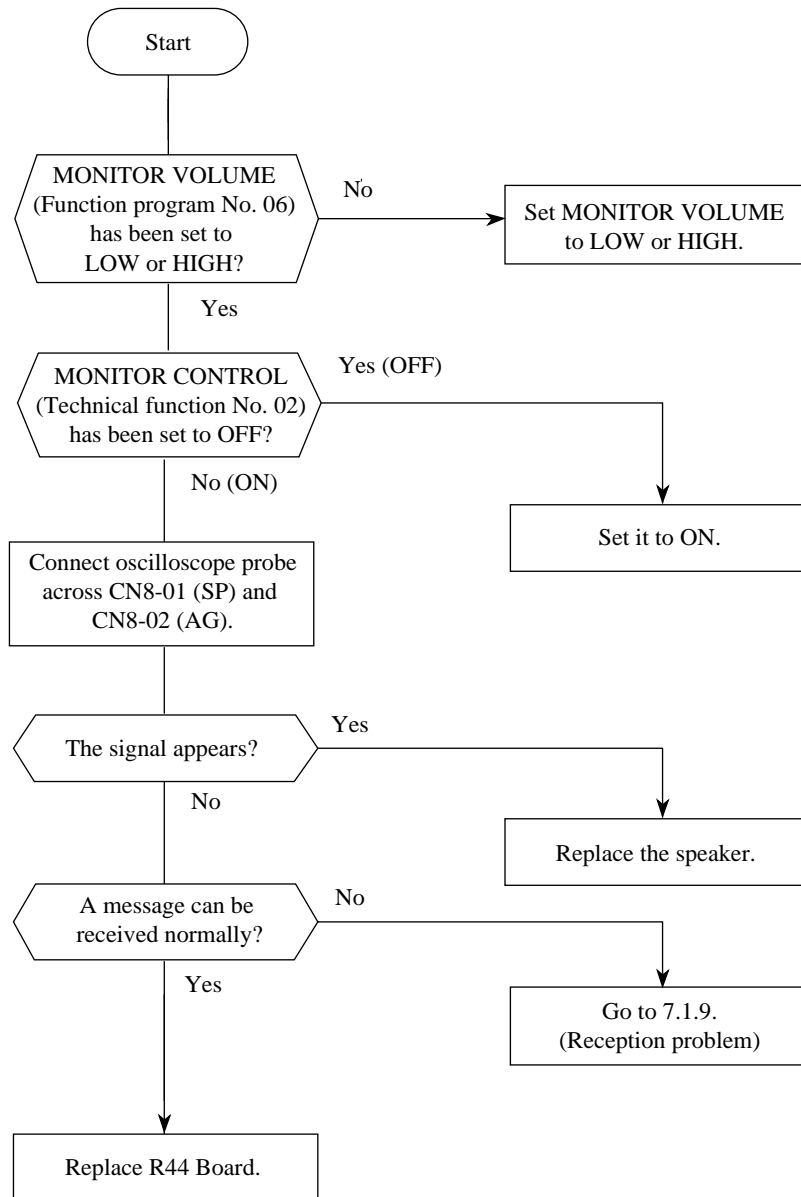
7.1.15 Tone (TEL/FAX) Send Test



7.1.16 No Acoustic Line Monitor

There are two source routes of acoustic line monitor:

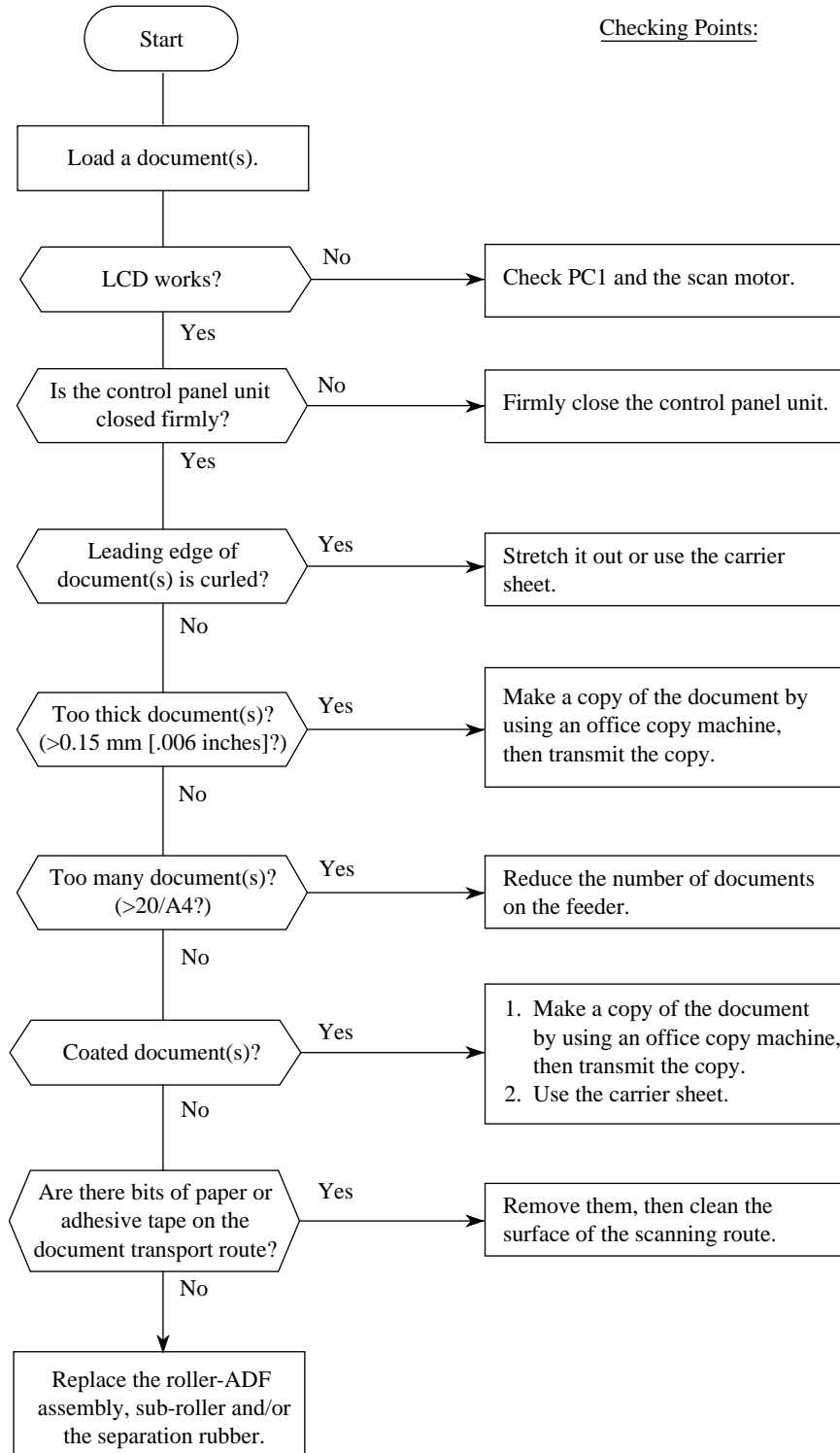
- (a) General communication signal
- (b) DP pulse signal



Signal route (R):
 CN10-A6, B6→IC12-1 (RM)→
 TR1-2→IC11-1→IC11-3
 IC5-5

7.1.18 No Document Feeding

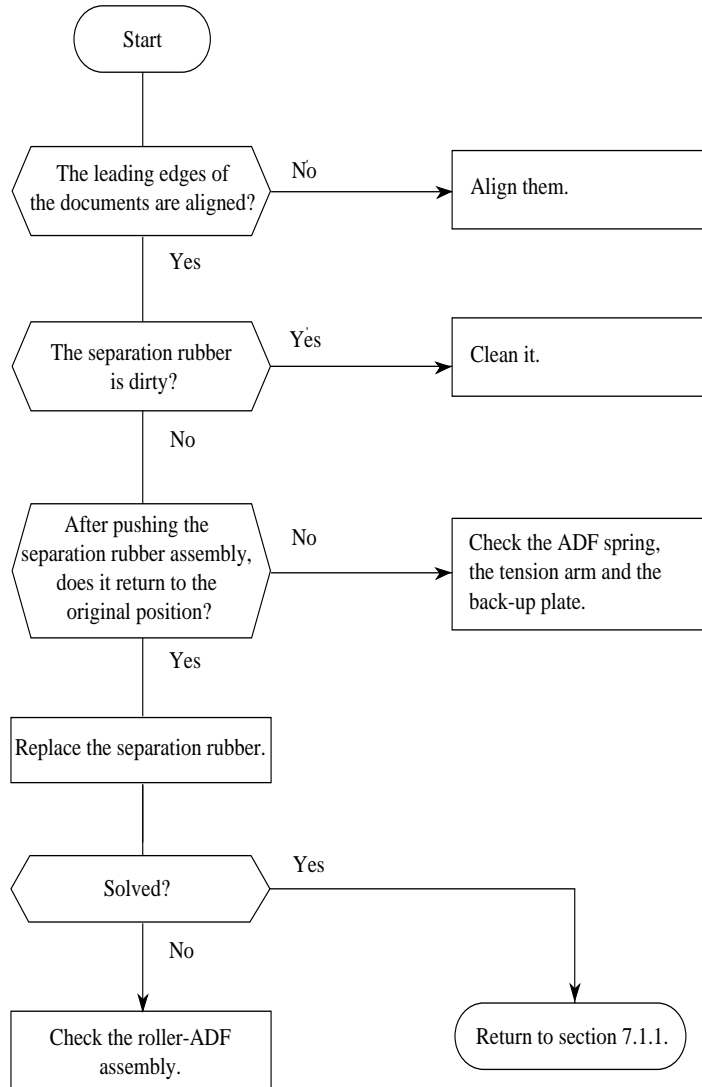
Note: This section places an emphasis on troubleshooting of mechanical portions. Therefore, it is recommended to replace the R44 Board first and then , if not solved, follow this flow chart.



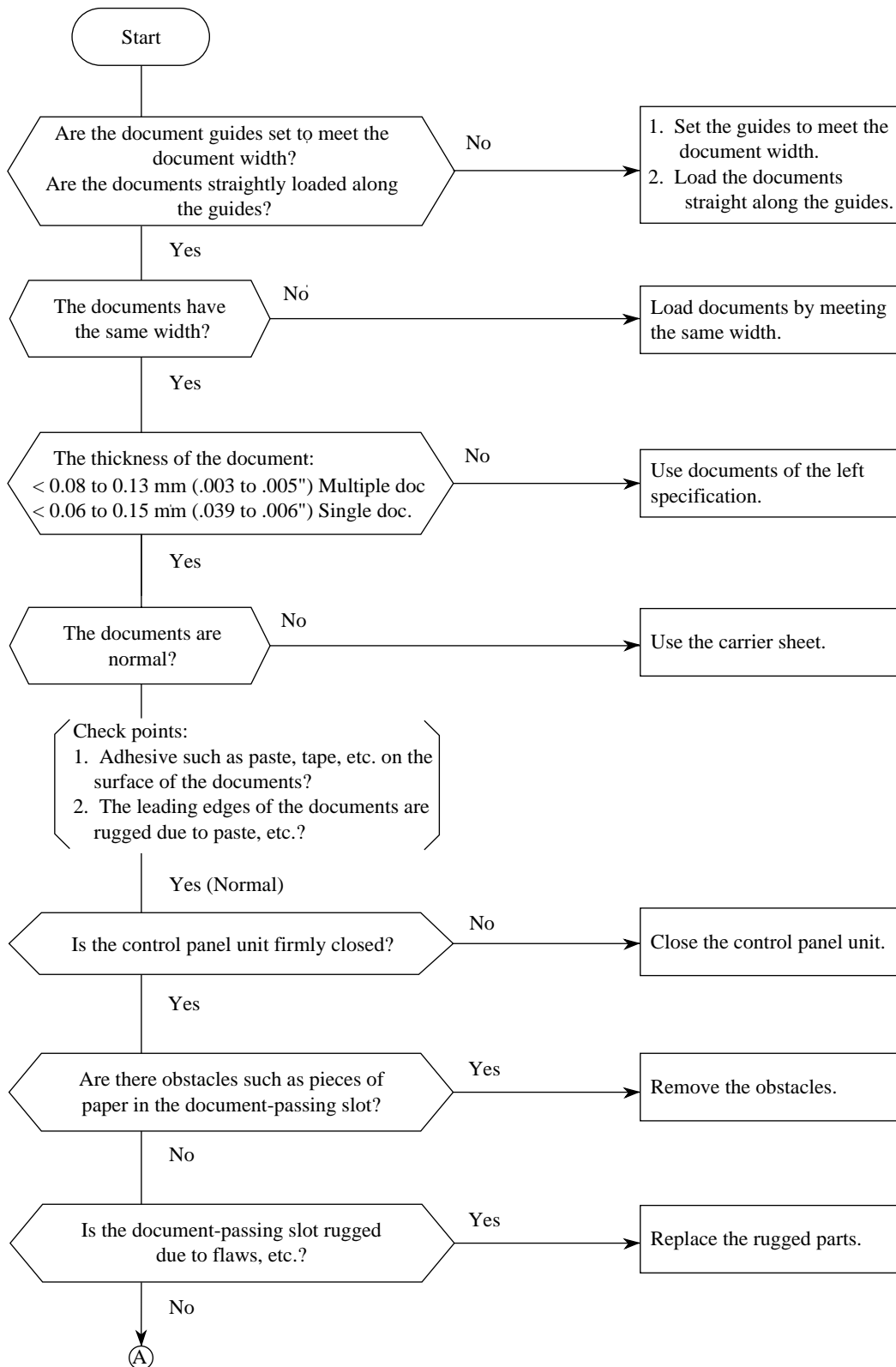
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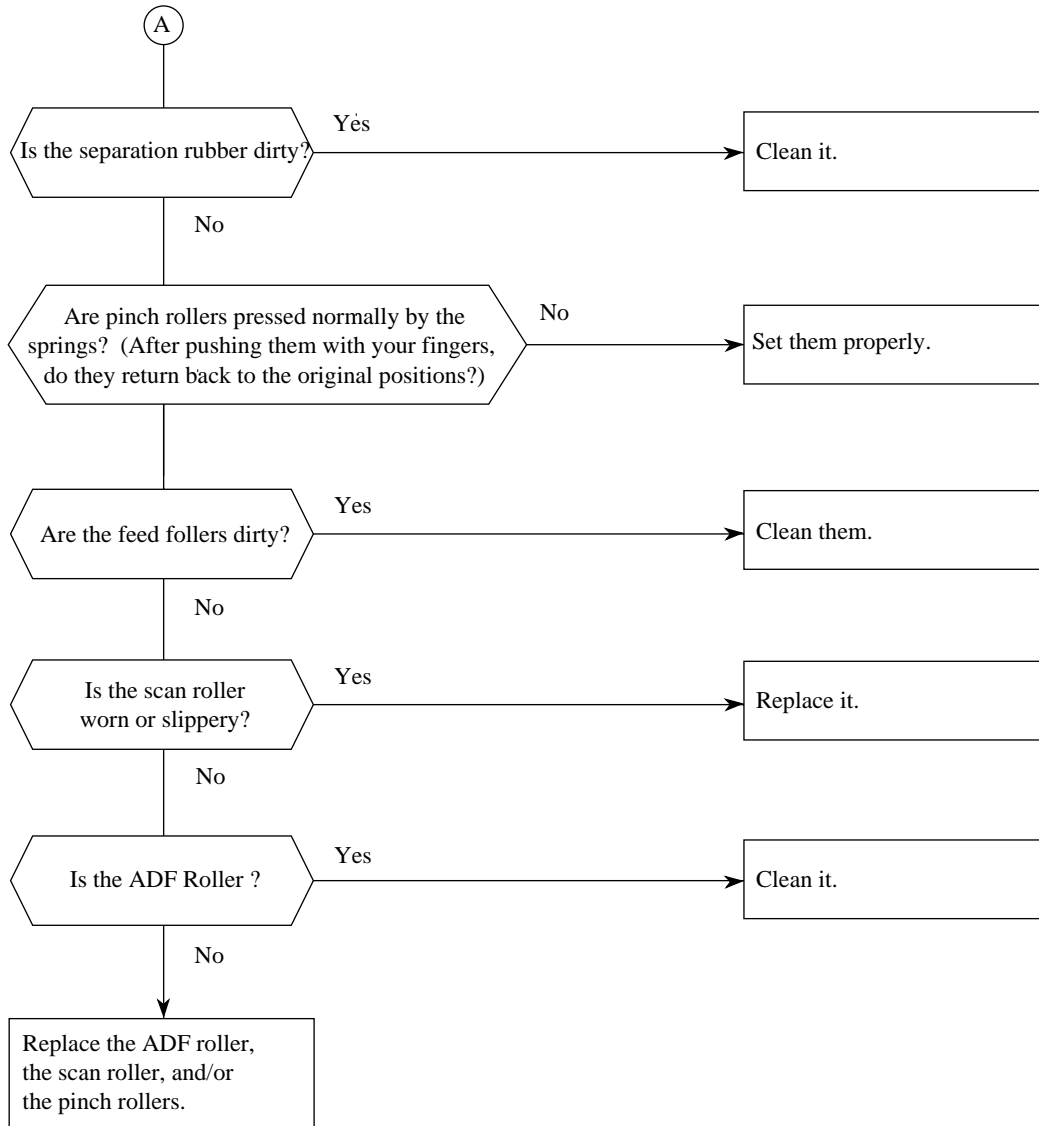
7.1.19 Multiple Document Feeding

Definition: Multiple document feeding.
Multiple documents are not separated and they are fed at the same time during one feeding operation.

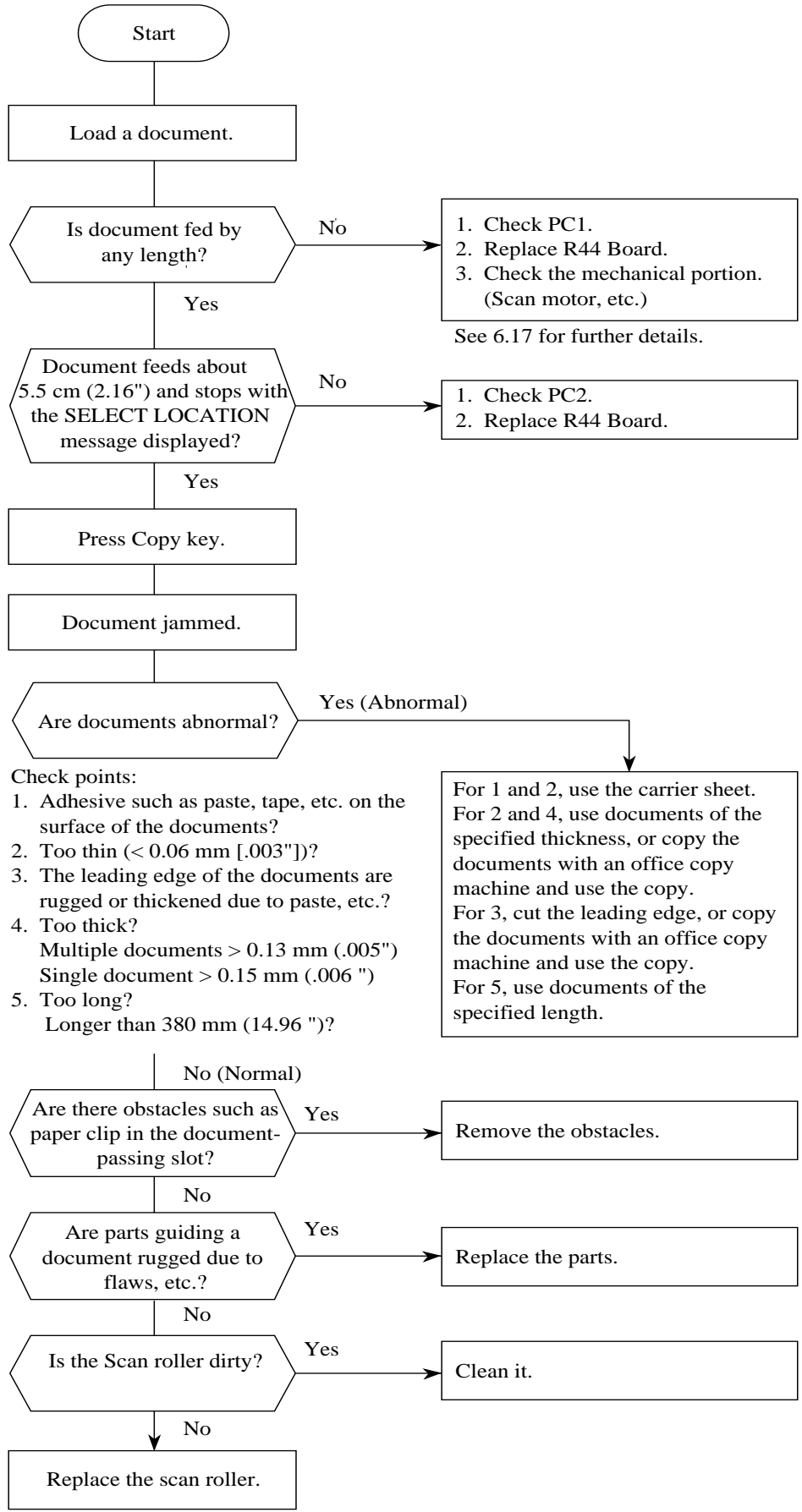


7.1.20 Document Skew





7.1.21 Document Jam



7.1.22 Printer Unit

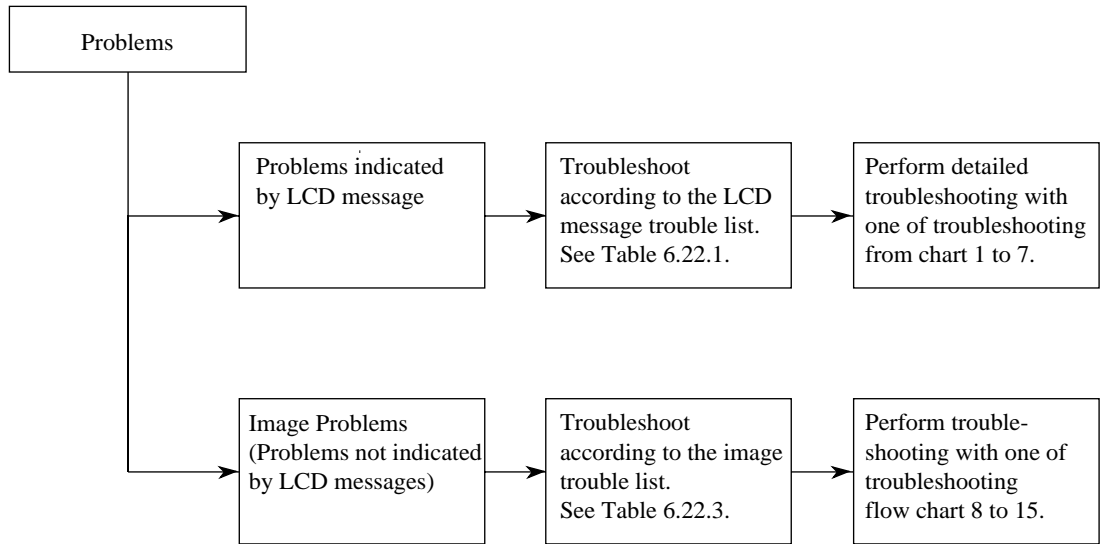
7.1.22.1 Precautions

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.

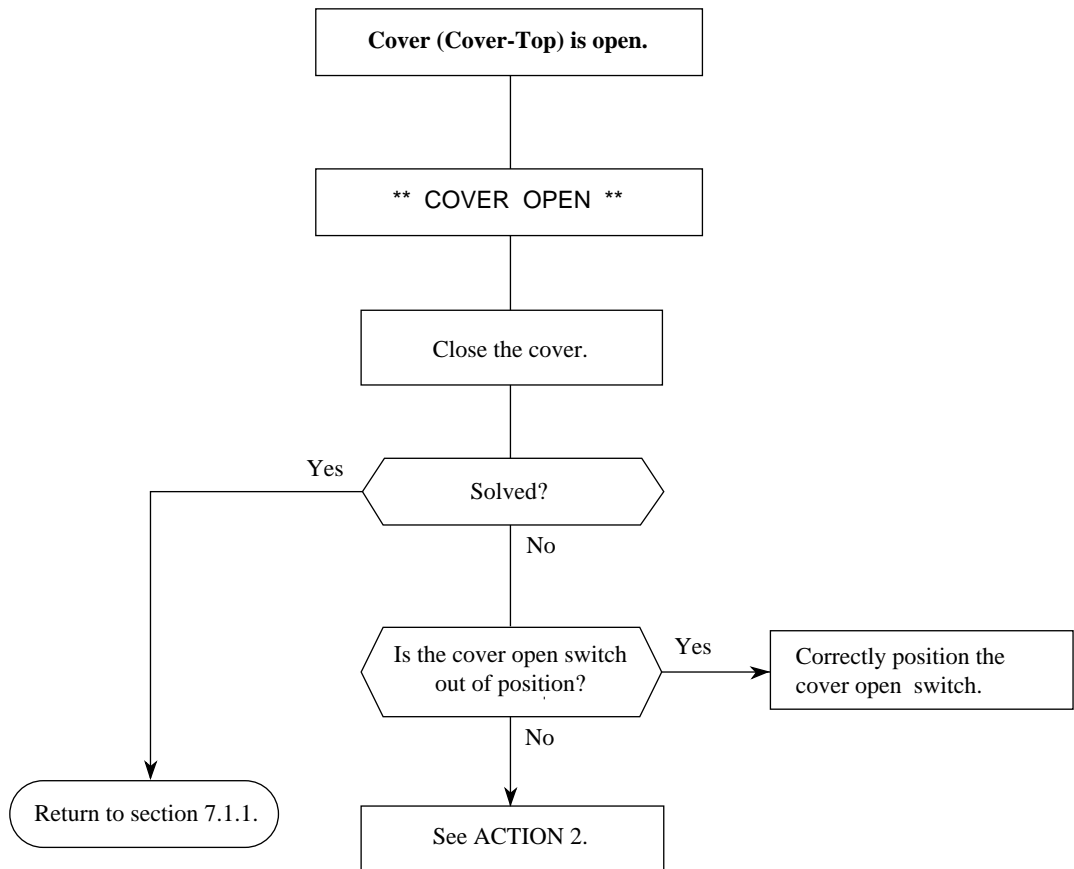
7.1.22.2 Troubleshooting Flow Charts of Printer Unit

Overall Troubleshooting Flowchart

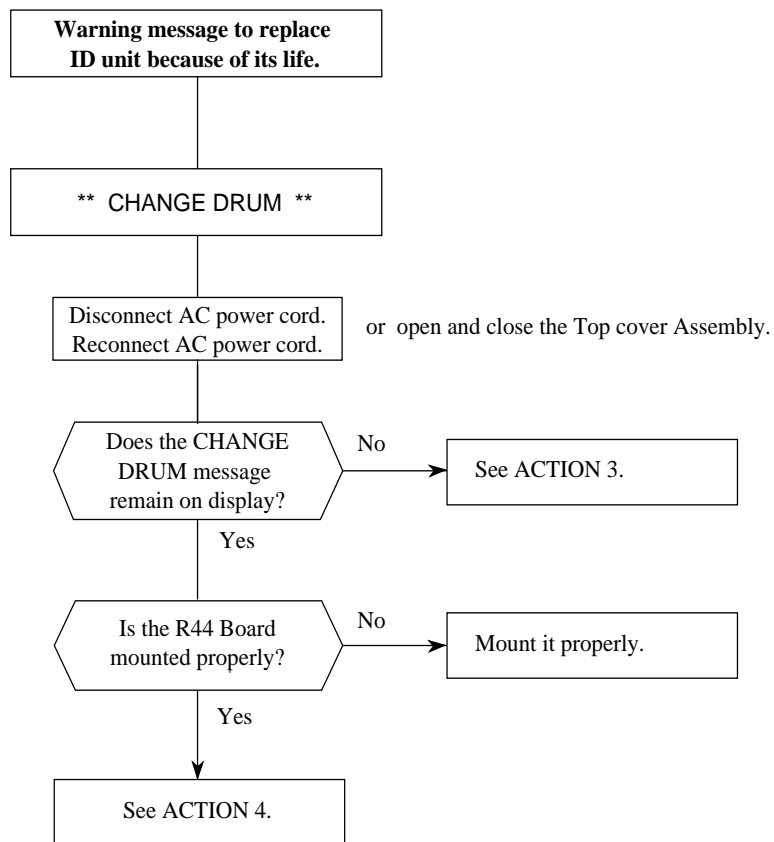


Category	LCD message display	Trouble	Troubleshooting flow chart number
Cover open	14:14 [FAX] COVER OPEN	The cover (cover-top) is open.	1
Image drum alarm	14:14 [FAX] CHANGE DRUM	Warning message to replace EP unit because of its life.	2
Engine errors	PRINTER ALARM 2 [TEL] PLEASE CONFIRM	Engine controller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

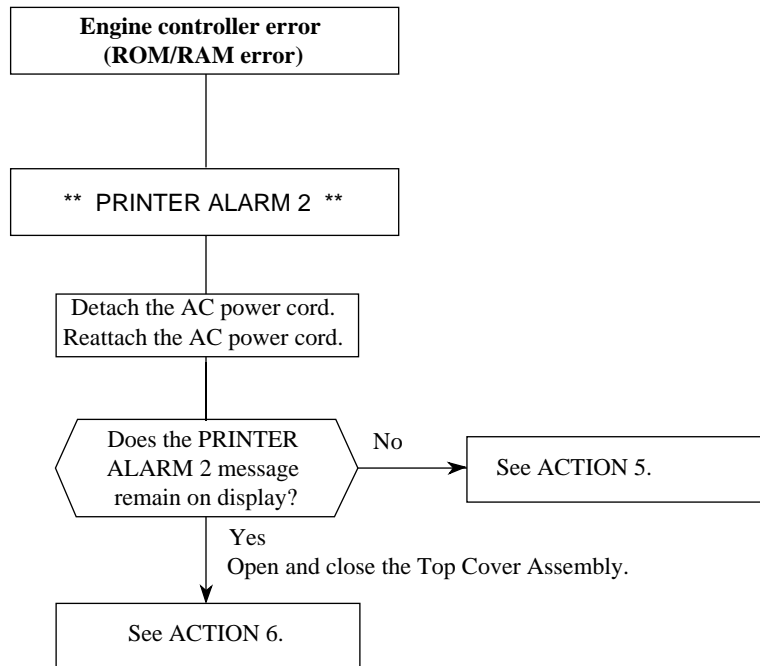
1: Top Cover is Open



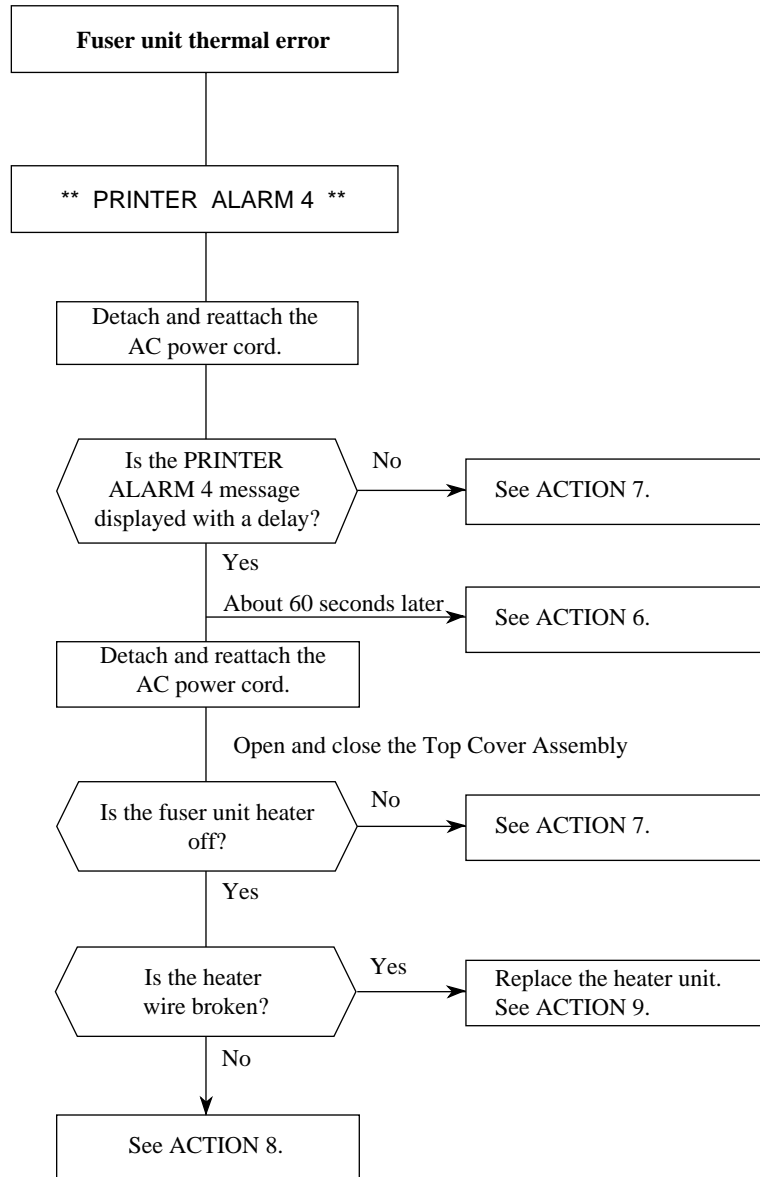
2: Replace Image Drum Message



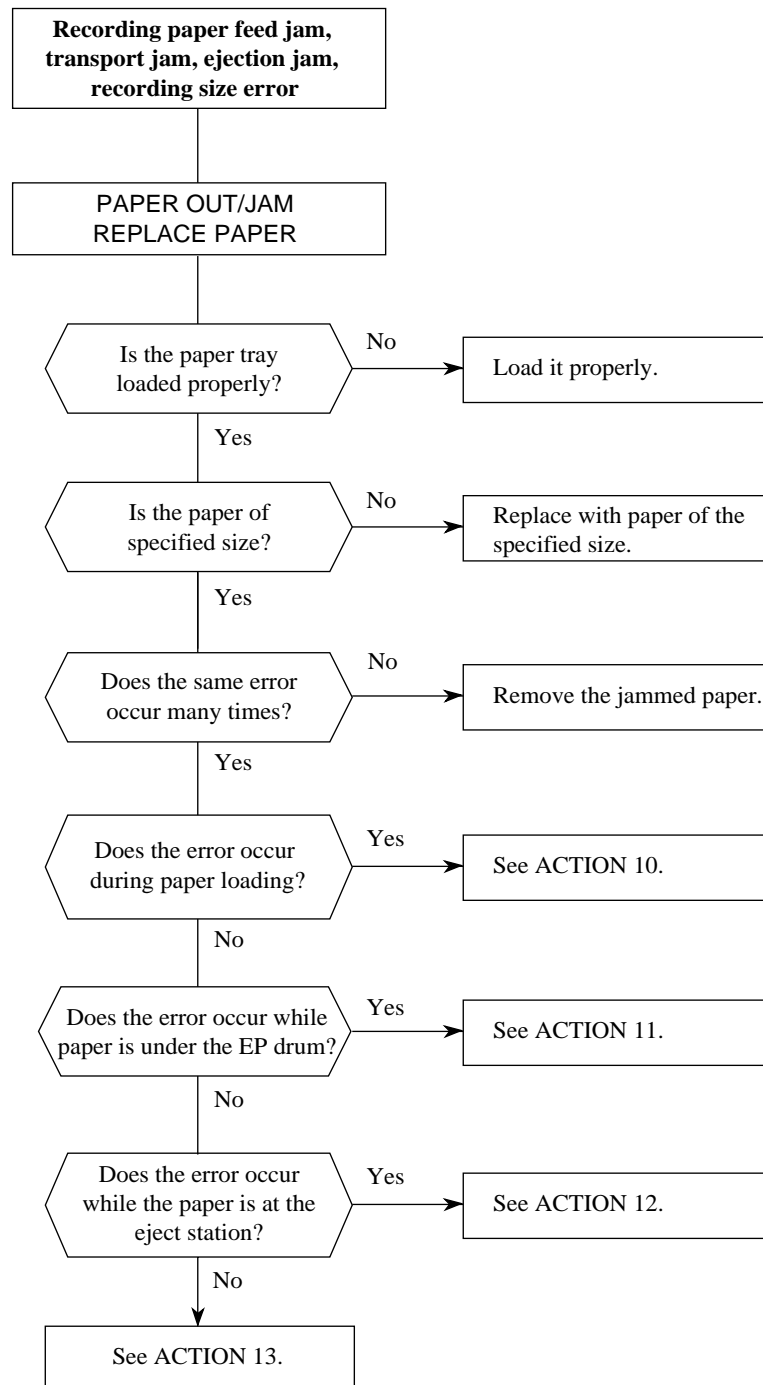
3: Engine Controller Error



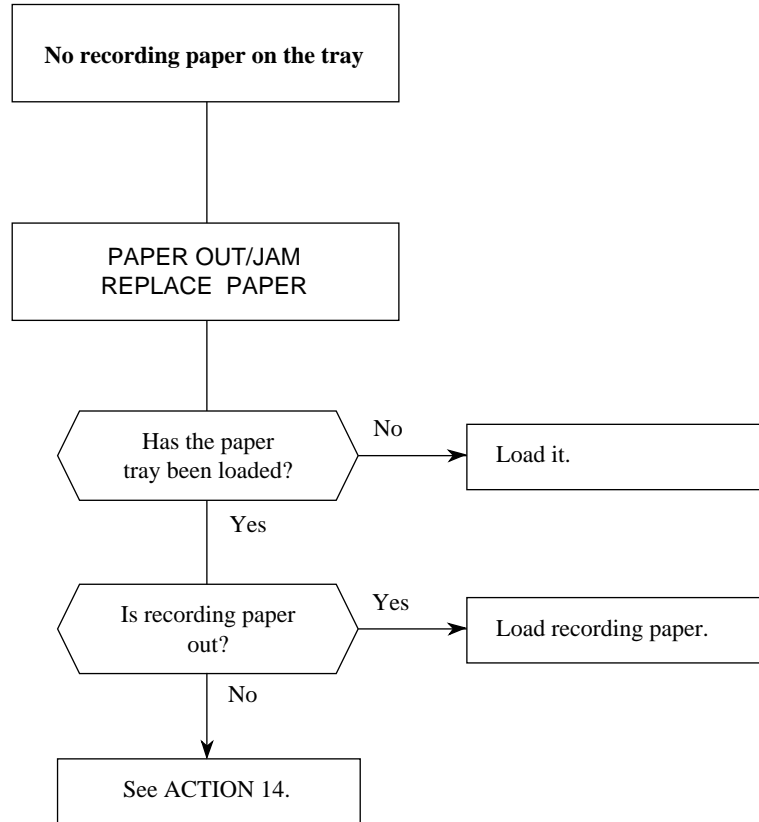
4: Fuser Unit Thermal Error



5: Paper Jams



6: No Paper Tray or No Paper



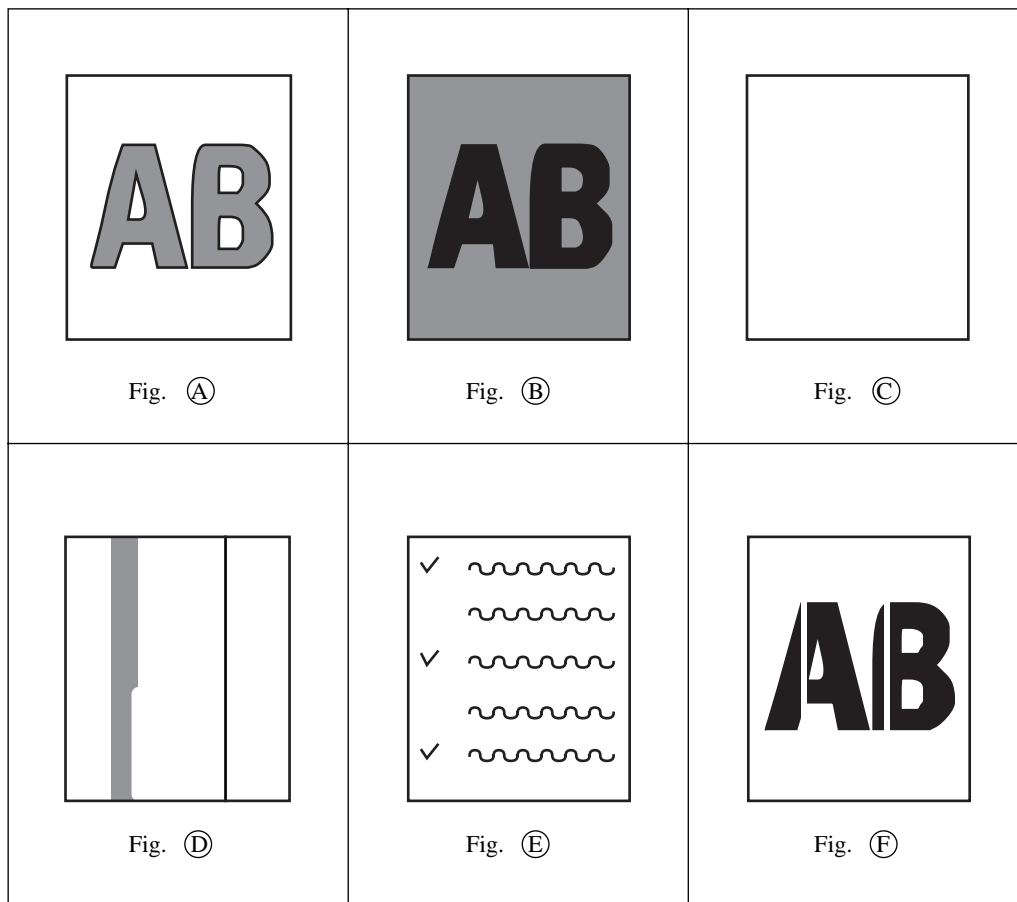
Action Items (Printer Unit-LCD Message) Table 7.1.22.2

No.	ACTION	No.	ACTION
1	Check R44 Board.	8	Check connection between the PWU and the fuser assembly, heater, thermostat.
2	Check PWU-HV Board cover open switch, cover open switch connection. Check R44 Board.	9	Check PWU.
3	Return to Section 7.1.	10	Check Sensor-E, magnet-H, hopping roller, pulse motor, R44 Board, Action of Idle gear-P.
4	Replace the Image Drum (EP) Unit.	11	Check Gear-T, R44 Board, PWU-HV Board.
5	Check installation of R44 board, Power Supply Unit Board.	12	Check exit sensor lever, PWU
6	Check R44 Board.	13	Check R44 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, R44 board.

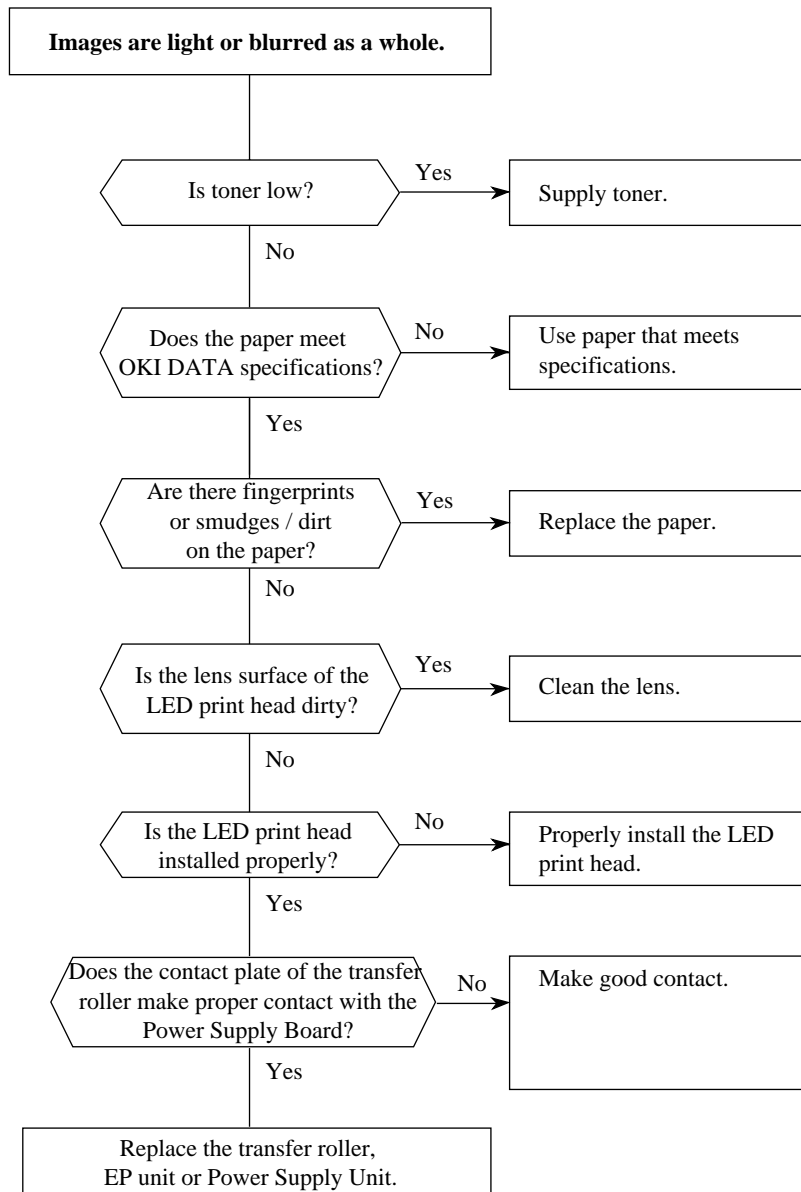
7.1.22.3 Image Problems Table

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

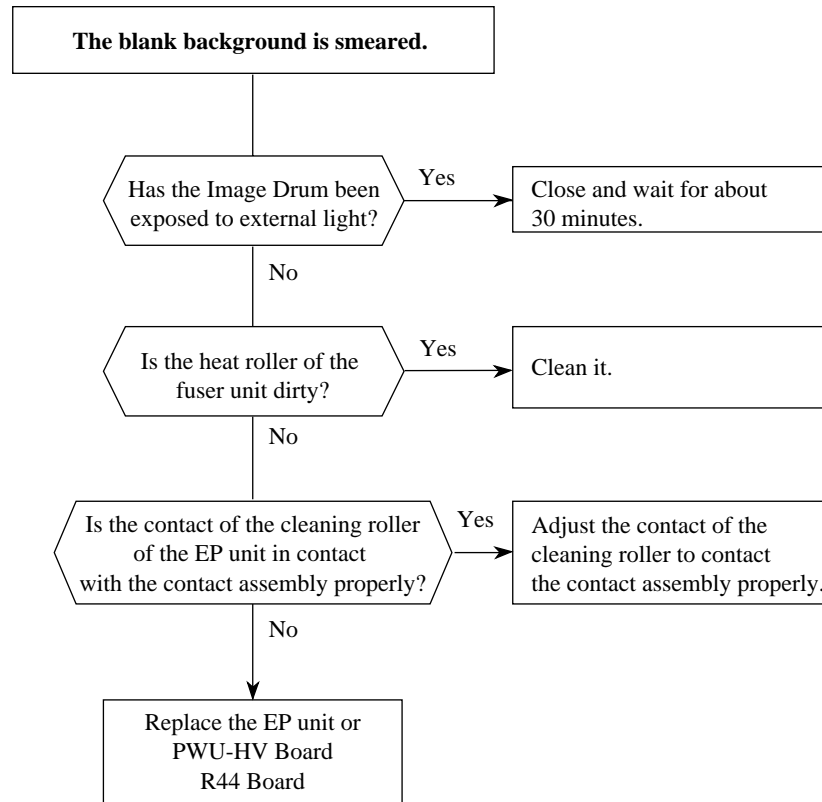
Sample Image Problems (Figure 7.1.22.1)



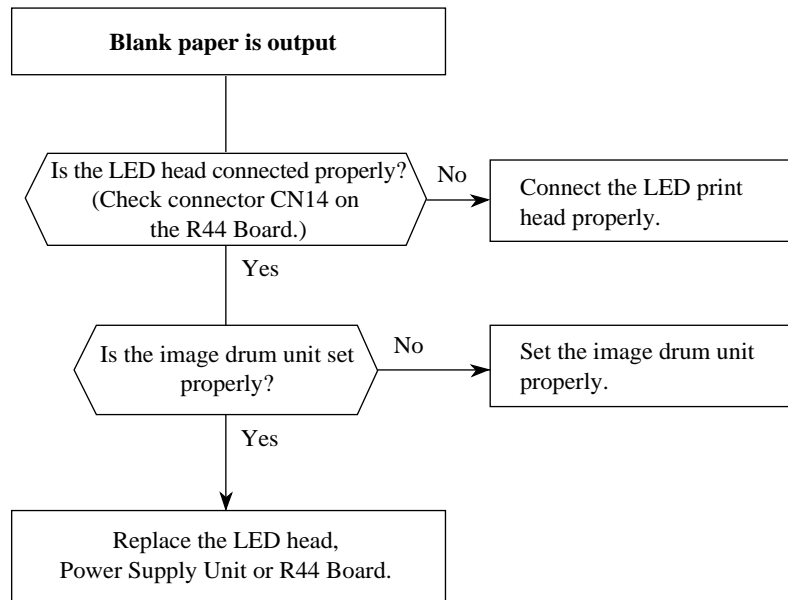
7: Light or Blurred Output



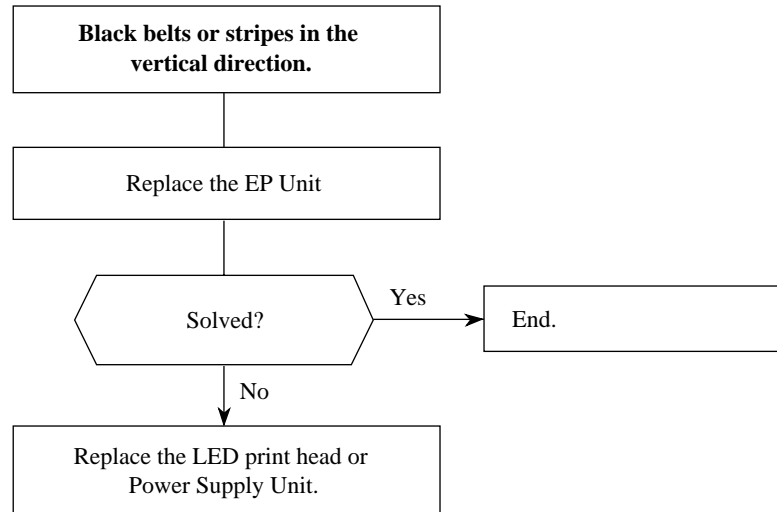
8: Smearing Background on Output



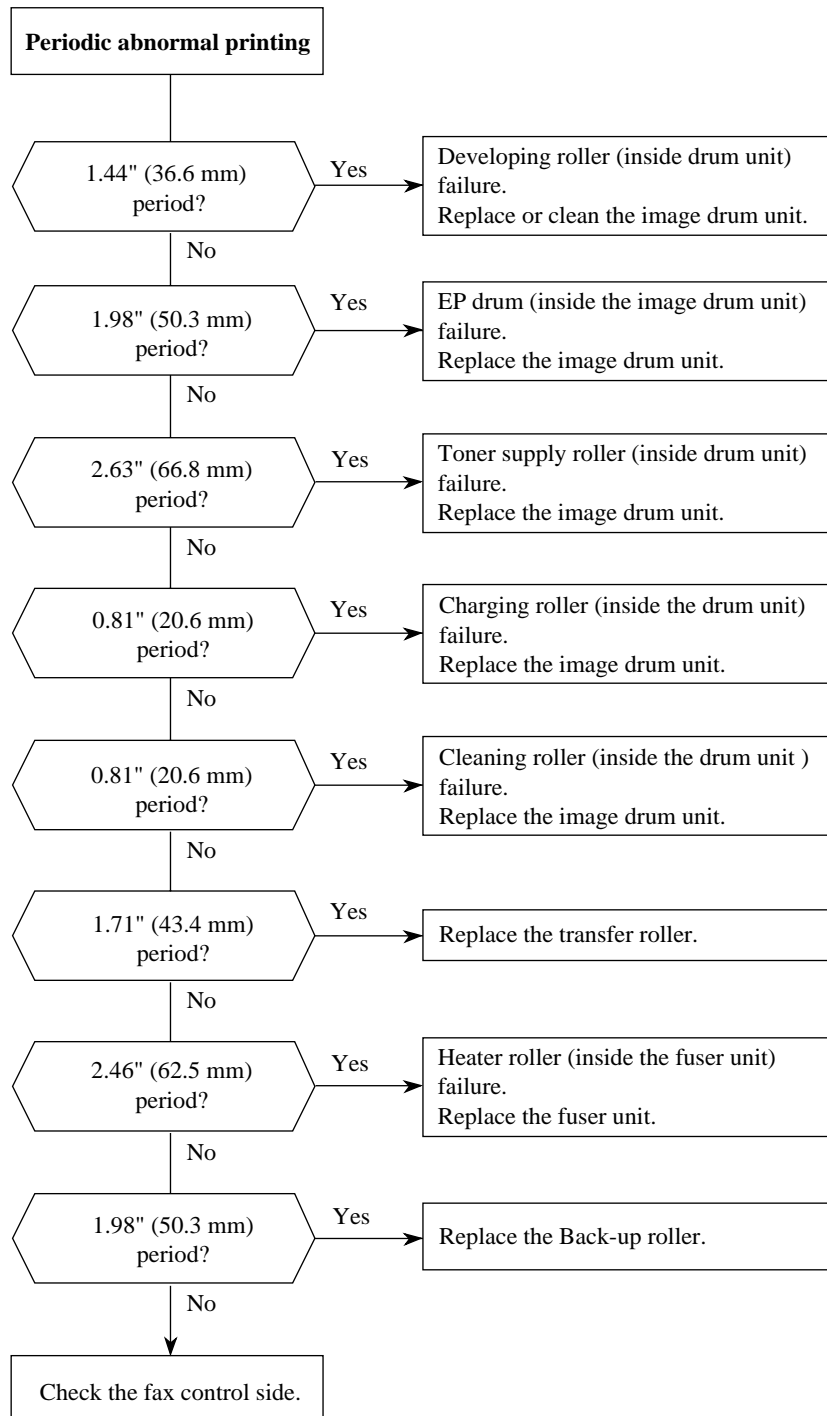
9: Blank Output



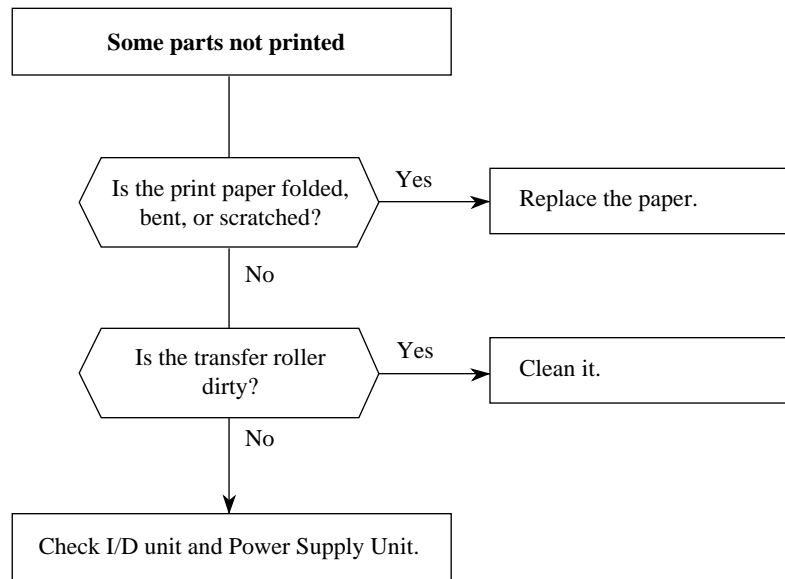
10: Vertical Black Stripes on Output



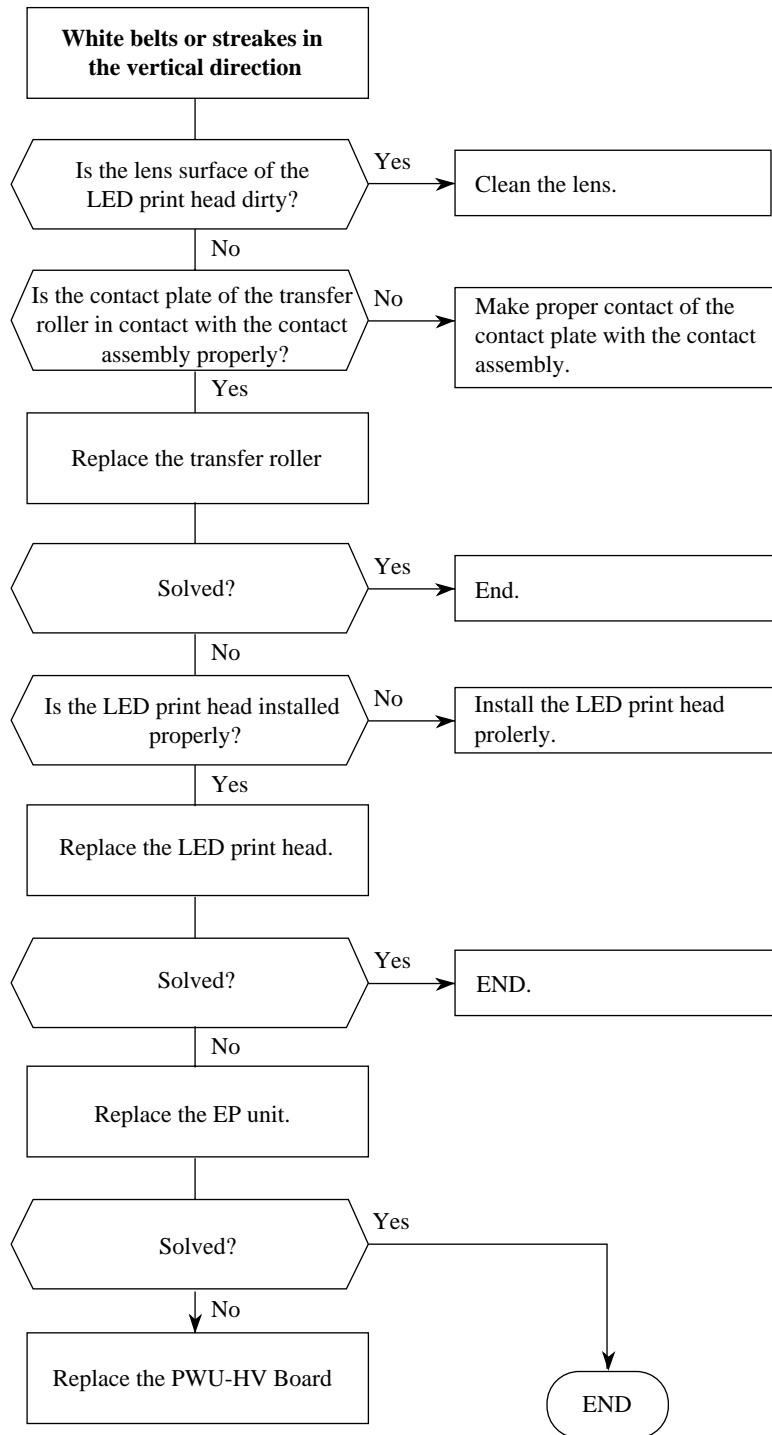
11: Evenly Spaced Marks on Output



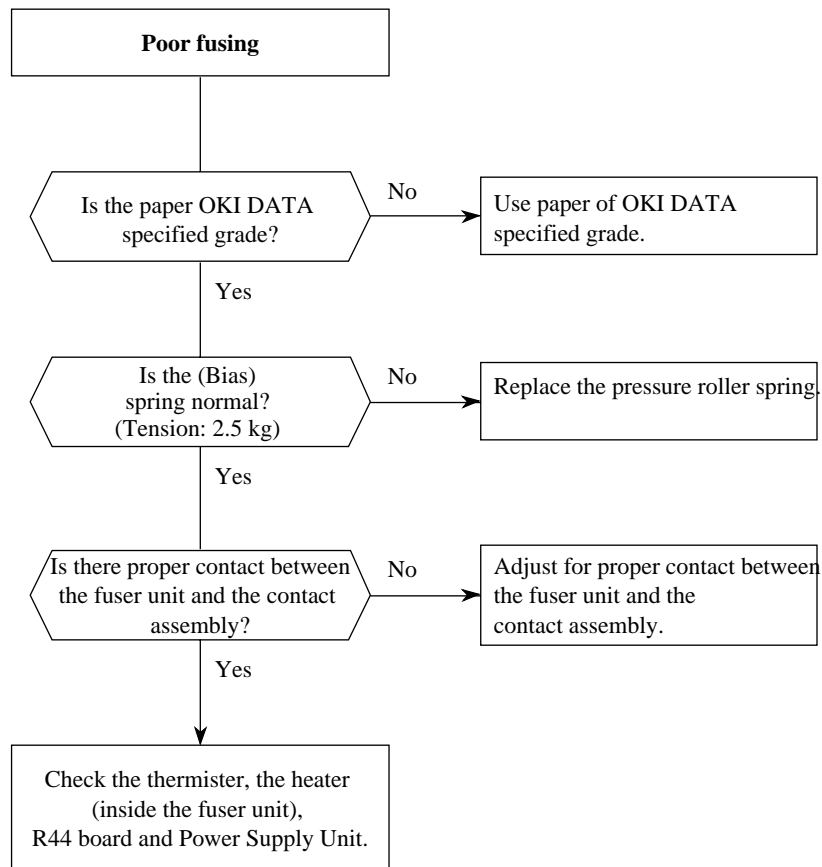
12: Missing Print on Output



13: Vertical White Stripes on Output



14: Poor Fusing



Section 8: Dipswitch Settings

8.1 General Information

The OKIOFFICE 44 does not have any dipswitches.

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Appendix A: Board Descriptions

PREFACE

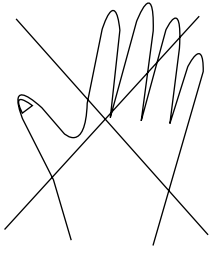
This appendix provides basic information concerning the electric section for the component-level maintenance of the OKIOFFICE 44. It includes such information which will help maintenance personnel to understand the circuit operations.

This appendix will also provide the reader information concerning the functions of units and the relationships among the units which will assist you in conducting unit-level maintenance.

Service Caution

The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

DANGER	
<p>Do Not Touch !</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;">HIGH VOLTAGE</div> 	<p>You may be subjected to high-voltage electric shock by touching the following parts without an insulating material:</p> <ul style="list-style-type: none">a. High-voltage unitb. Contact ass'y

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A1.1 Unit Configuration and Block Diagram

1. The unit configuration of the OKIOFFICE 44 is as follows:

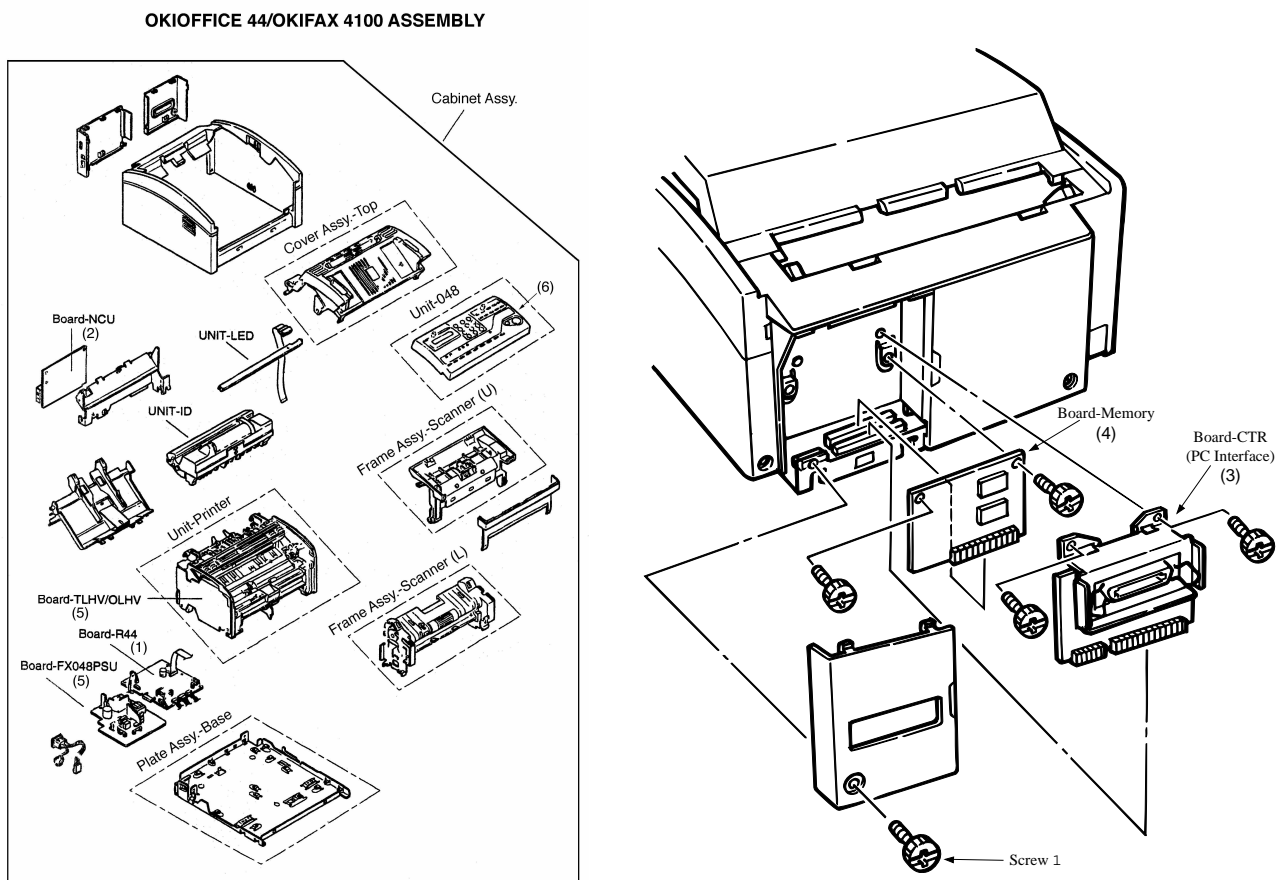
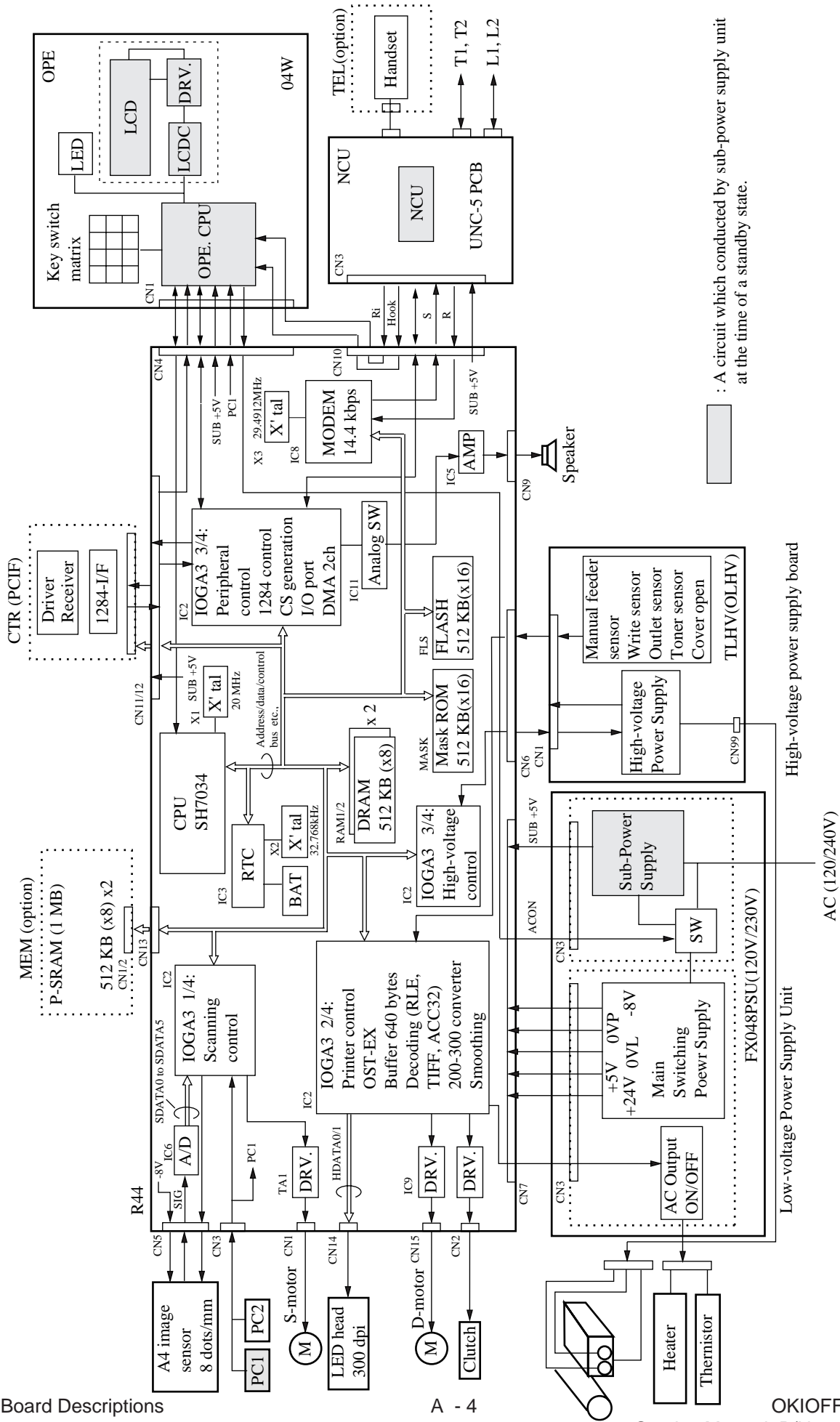


Figure A.1.1.1 Unit Configuration of OKIOFFICE 44

- (1) Main control board (R44)
- (2) Network control unit (NCU)
- (3) PC interface board (CTR): option
- (4) Memory board (MEMO): option
- (5) Power supply unit (048 POW, OLHV/TLHV)
- (6) Operation panel board (04W)
- (7) Optional board
 - Telephone interface board (TEL)
 - Hook board (HOOK)



□ : A circuit which conducted by sub-power supply unit at the time of a standby state.

OKI OFFICE44 Block Diagram Figure (A1.2.1)

Block Diagram Abbreviations

A/D	: Analog-to-digital converter
AMP	: Amplifier
BATT	: Battery
CNi	: Connector number i
CPU	: Central processing unit
D-MOTOR	: Drum motor
DRV	: Motor drive
DRAM	: Dynamic random-access memory
EXSEED	: Image processing gate array
FAN	: Fan motor
FLASH	: Flash memory
IOPA 3	: Input output gate array
PCi	: Photocoupler number i
POW.UNIT	: Power supply unit
PSRAM	: Pseudo-SRAM
R-MOTOR	: Resist motor
RTC	: Real time clock
S-MOTOR	: Send motor
SRAM	: Static random-access memory
X'tal	: Crystal oscillator

A1.2 Function of Each Unit

The section describes the principal functions of the individual units of the OKIOFFICE44 electrical sections.

Figure A1.2.1 shows the pertinent block diagram.

Main Control (R44) Board

- CPU
 - Basic processor
 - Scanning control
 - Picture processing control
 - Printing control
 - SIO (Serial input/output) control
- IOGA (Input/output gate array)
 - Scanning control
 - Printing control
 - Peripheral input/output control
- Flash memory (Instead of EP-ROM and SRAM)
 - Memory storage for work area.
- DRAM
 - Memory storage for ECM operations, memory broadcast, delayed broadcast, etc.
- Back-up battery circuit
- Real-time clock IC
- Audio monitor circuit
- Contact image sensor control
- I EXSEED (For OKIFAX 5000 series)
 - Image data processing
- SRAM (For OKIFAX 5000 series)
 - Memory storage for image picture data
- Supervision of the following external statuses:
 - Presence of document on hopper
 - Presence of document at scanning position
- Send motor control
- Fan motor control
- Drum motor control
- Resist motor control
- Modem chip/Modem board (For OKIFAX 5500/5600)
 - Modulation and demodulation for V.34 (for OKIFAX 5500/5600)
 - Modulation and demodulation for V.33 and V.17
 - Modulation and demodulation for V.29 and V.27 ter
 - Modulation and demodulation for V.21
 - Generation of single-frequency signals for tonal signals
 - Detection of single-frequency tonal signals
 - Generation of dual time multiple-frequency signals for tone dialing

Operation Panel Unit: O4W Board

- Supervision of switches on operation panel
- Control of LEDs on operation panel
- Control of LCD on operation panel

LED : Light-emitting diode
LCD : Liquid crystal display

NCU Board (UNC5)

- Conversion of receive data and receive signals to internal signal level
- Conversion of send data and send signals to external signal level
- Generation of dial pulses to telephone line
- Detection of ringing signal
- Detection of busy tone (conjunction with Modem unit)
- Detection of hook up signal
- Interface with telephone handset (option)
- Output of send data and send signals to telephone line
- Input of receive data and receive signals from telephone line

Power Supply Unit

048-POW (120V/230V), TLHV/OLHV Board for OKIOFFICE44

- Conversion of main alternating current to the following direct currents:
 - +5V DC power supply
 - +8V DC/-8V DC power supply
 - +30V DC power supply
- Supplying of main alternating current to fuser unit
- Generation of medium voltages +300V, -300V, +400V, -450V and 0V
- Generation of high voltages -1.35 kV, -0.75 kV and +3.5 kV

Memory Board (Option)

- Memory storage for ECM operations, memory broadcast, delayed broadcast, etc.

CTR Board (PC Interface)

- Driver circuits

HOOK Board (Option)

- Hook switch circuit

TELU Board (Option)

This is contained within the optional handset.

- Speech network circuit
Basic speech functions included.

A2.1 Signal Flow Explanation

Note : The OKIOFFICE 44 and OKIFAX 5000 series machines have very similar signal flows.

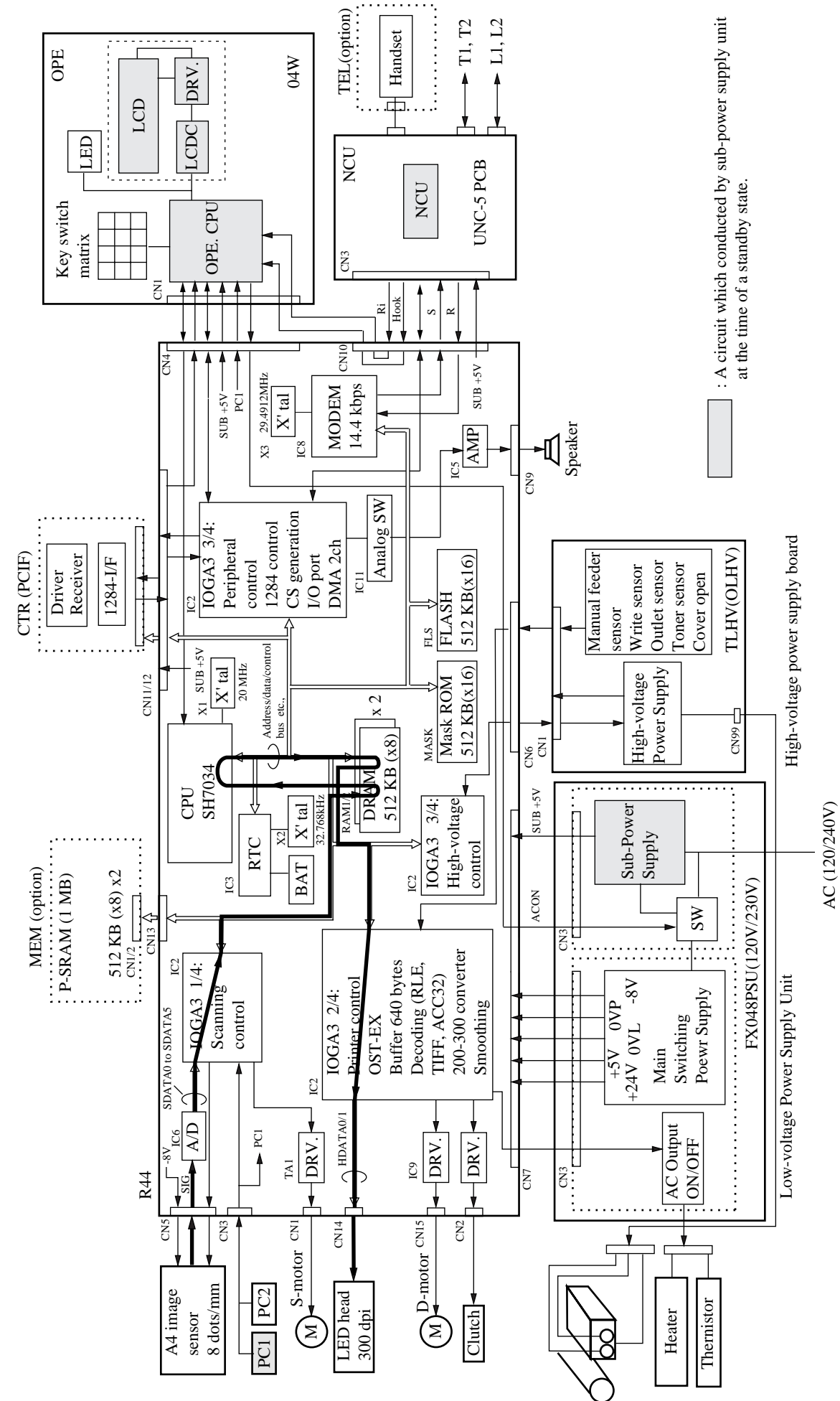
The differences are:

The one-line scanning processing speed of OKIFAX 5000 series is faster. The EXSEED (image processing LSI) and SRAM (dark/light level correction data) have been added to the OKIFAX 5000 circuits.

Copy Mode

Figure A2.1.1 shows the picture signal route in local copy mode.

One-line picture data is transferred to A/D converter (analog/digital converter) from the scanning unit (CIS: contact image sensor) as an analog data. After conversion from analog data to 6-bit digital data by A/D converter, the picture data is sent to DRAM (line memory) via IOGA by DMA (Direct Memory Access). Then the picture data is sent to IOGA again. Here, the picture data undergoes various kinds of picture processings (IOGA and CPU), and is converted to two-level binary data (black and white). The one-line binary data from IOGA is stored into DRAMs (page memory). When the data for one page has been stored in the DRAMs, the data is read out from the DRAMs and sent to IOGA. The data is converted into a serial data by the picture control of IOGA and transferred to the LED print head for printing as HDATA 0/1. Writing of data into the page memory is also possible during the printing operation.



□ : A circuit which conducted by sub-power supply unit at the time of a standby state.

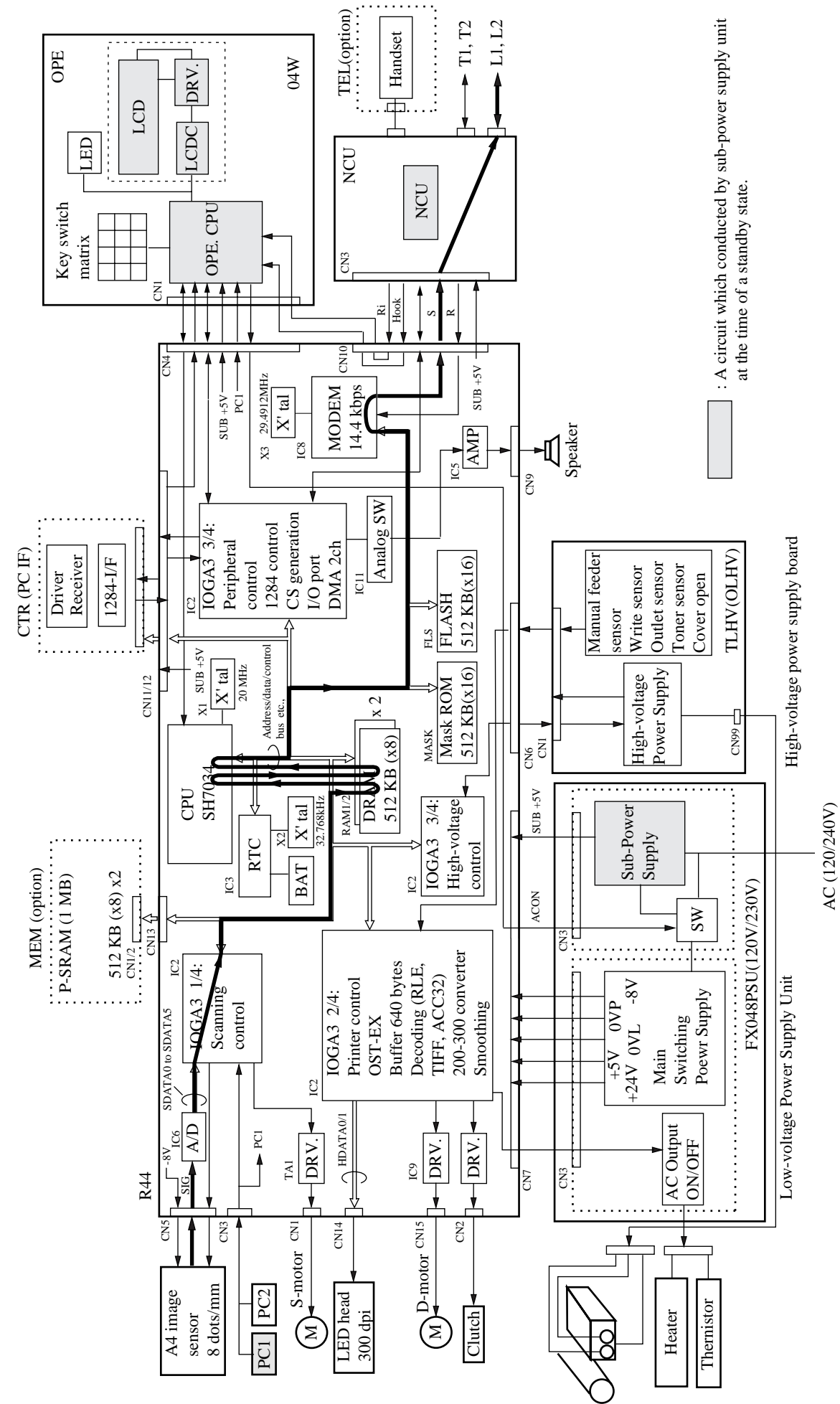
Copy Picture Signal (Figure A2.1.1)

G3 Send Mode

Figure A2.1.2 shows the G3 send picture signal route

In the G3 mode, the data transfer route from the scan unit up to the DRAM is the same as in the copy mode described in (1).

The picture data for one-line is transferred from DRAM to CPU. The CPU performs the picture data processing (encode) for this picture data (FILLER, fill bits are inserted etc.) and again stores into the DRAM. The stored encoded data is output from DRAM to the MODEM under the control of CPU. After modulation, the picture signal "S" is sent to the NCU board as the transmission data. The transmission data "S" goes through the amplifier and is sent to the telephone line L1 and L2 via the transformer T1 as high speed signal.



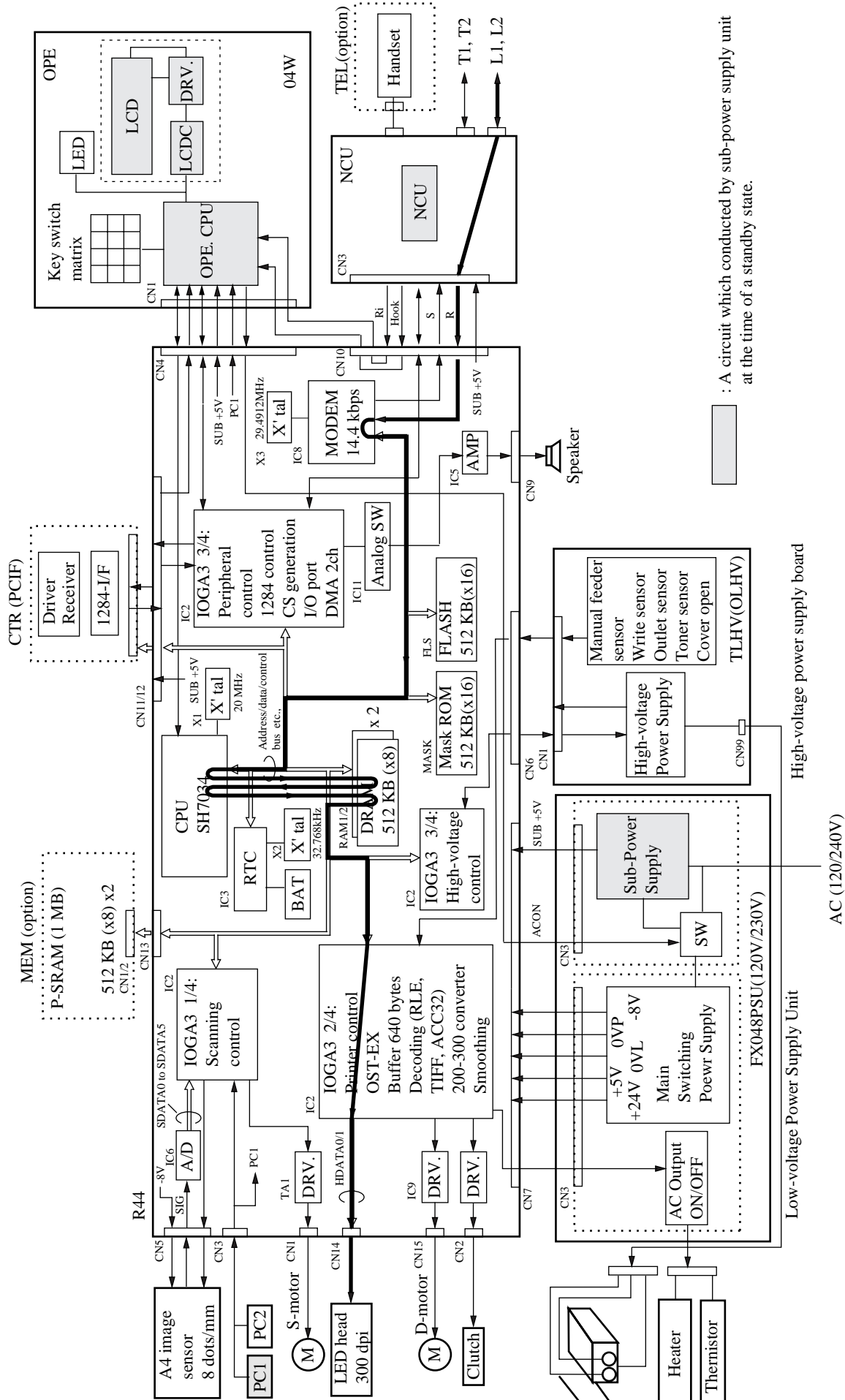
: A circuit which conducted by sub-power supply unit at the time of a standby state.

G3 Send Picture Signal (Figure A2.1.2)

G3 Receive Mode

Figure A2.1.3 shows the G3 receive picture signal route

In the G3 mode, the high-speed picture signal arriving from the telephone line at L1 and L2 of NCU passes through the transformer T1 and the amplifier and is input to the MODEM as “R” signal. After demodulation by modem, the picture data is sent to CPU. The CPU performs the picture data processing (decode) for this picture data and stores into the DRAM. Then, the stored picture data is again written into DRAM (as a page memory) by the picture processing control of CPU. When the data for one page has been stored in the DRAM/P-SRAM, the data is read out from the DRAM and sent to IOGA. The picture data is converted into a signal data by the printer control of IOGA and transferred to the LED print head for printing as HDATA 0/1.



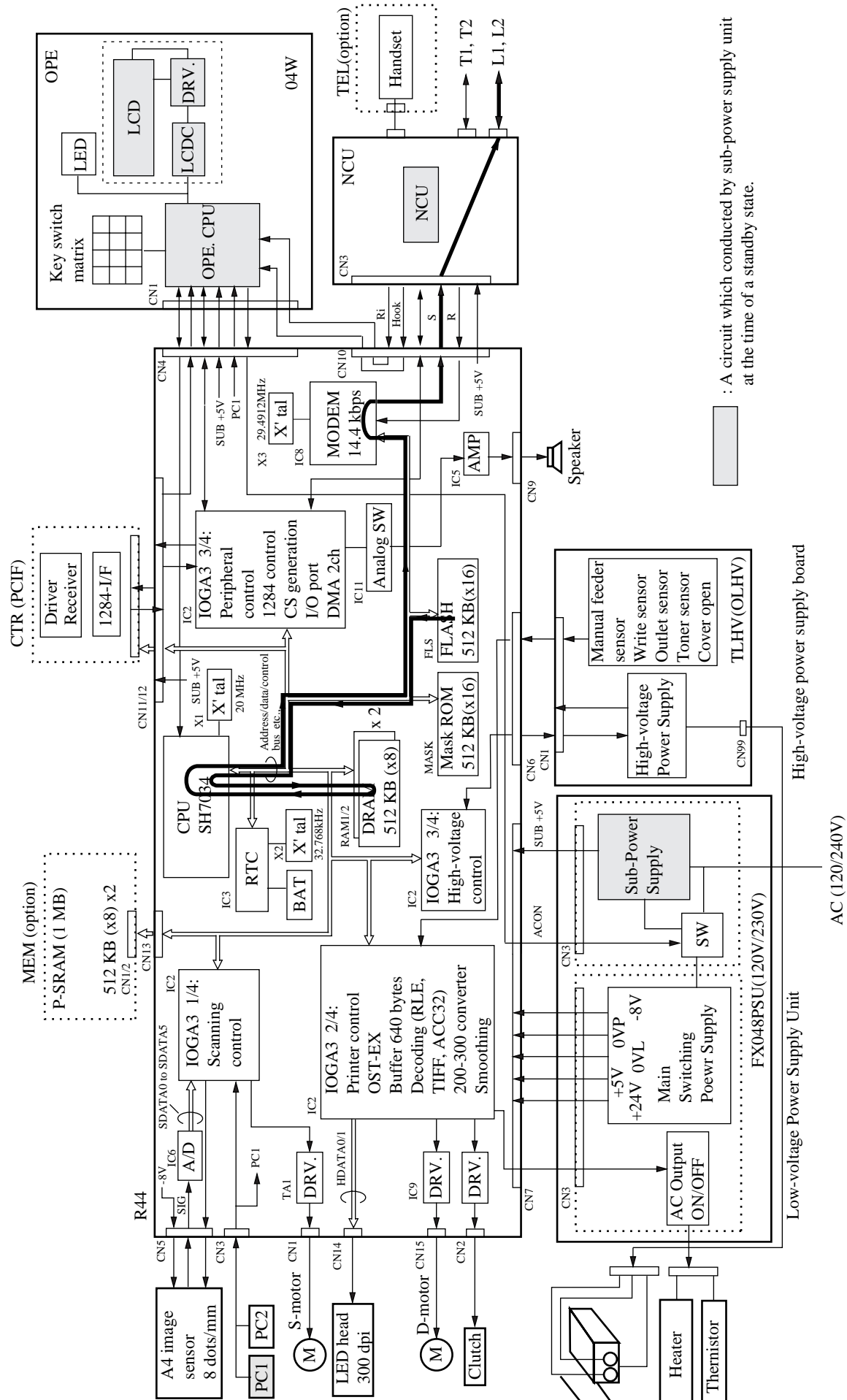
G3 Receive Picture Signal (Figure A2.1.3)


300 bps Send Mode

Figure A2.1.4 shows the 300bps send protocol signal route

In G3 communication, this is the route of the procedural control signals (pre-message, post-message phases etc.) at 300bps.

The protocol send data is read into DRAM in the sequence the contents of various data stored in the FLASH memory area in advance under the control of CPU. The contents of the frame has been edited on the DRAM by CPU and sent to MODEM via CPU. HDLC (high level data link control) frame of the data is structured by the modem and converted to serial data in synchrony with the modem's DCLK (data clock). After modulation, the protocol signal is output from "S" of the modem and sent to the telephone line L1 and L2 via the transformer T1 of NCU.



Legend:  : A circuit which conducted by sub-power supply unit at the time of a standby state.

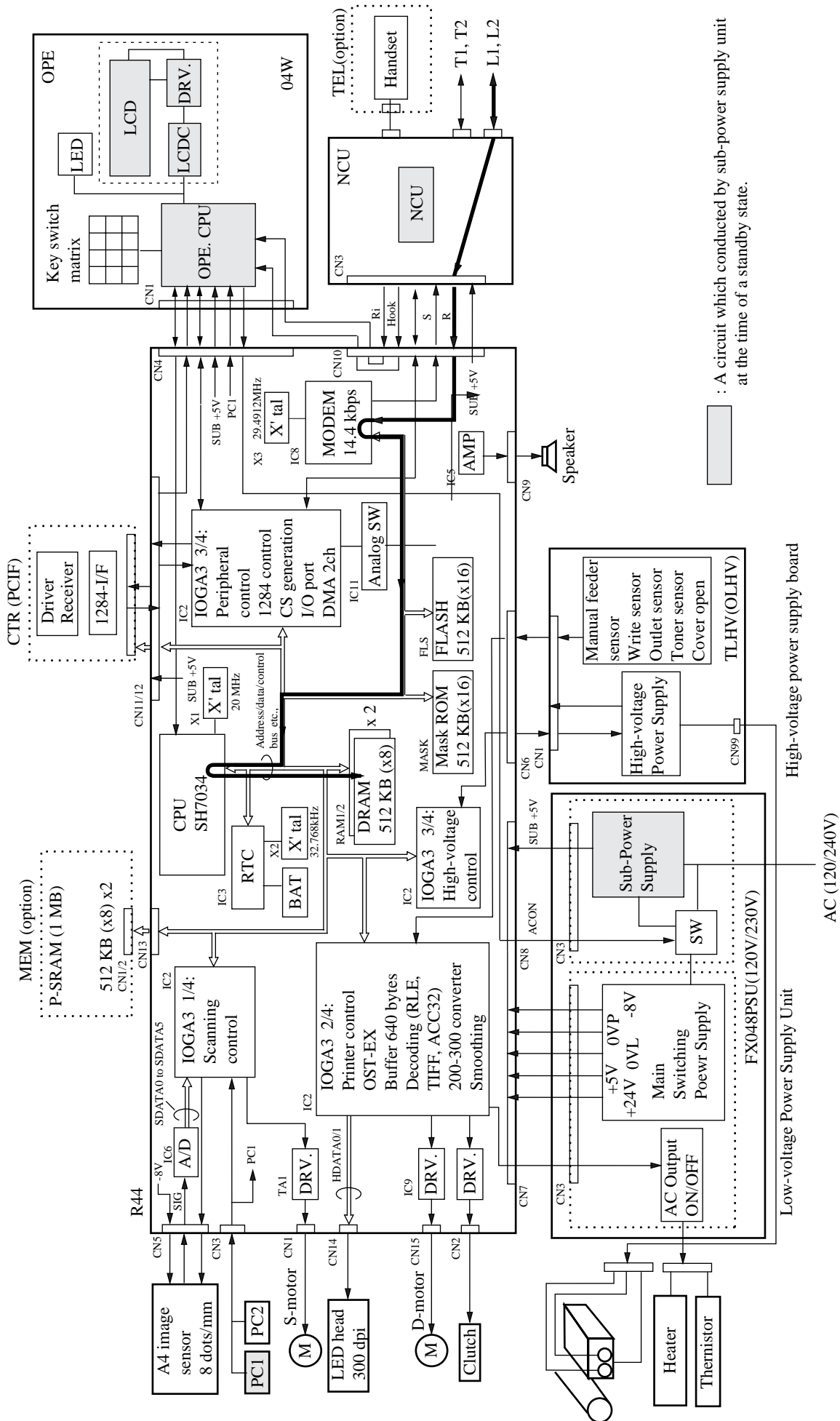
300 bps Send Signal (Figure A2.1.4)

300 bps Receive Mode

Figure A2.1.5 shows 300bps receive protocol signal route.

In G3 communication, this is the route of the procedural control signals (pre-message, post-message phases etc.) at 300bps.

The 300bps modulated signals received via the telephone line L1 and L2 of the NCU are sent from pin R to Pin RXA1 of the modem. After demodulation by the modem, the demodulated digital signals are sent to the CPU via the data bus from the modem. The data is read and decoded by the CPU and written into the DRAM. The written data is interpreted according to bit assignment of the binary procedural signals in the ITU recommendations. The successive modes of communication (for example, line density, encoding scheme, etc.) are determined.



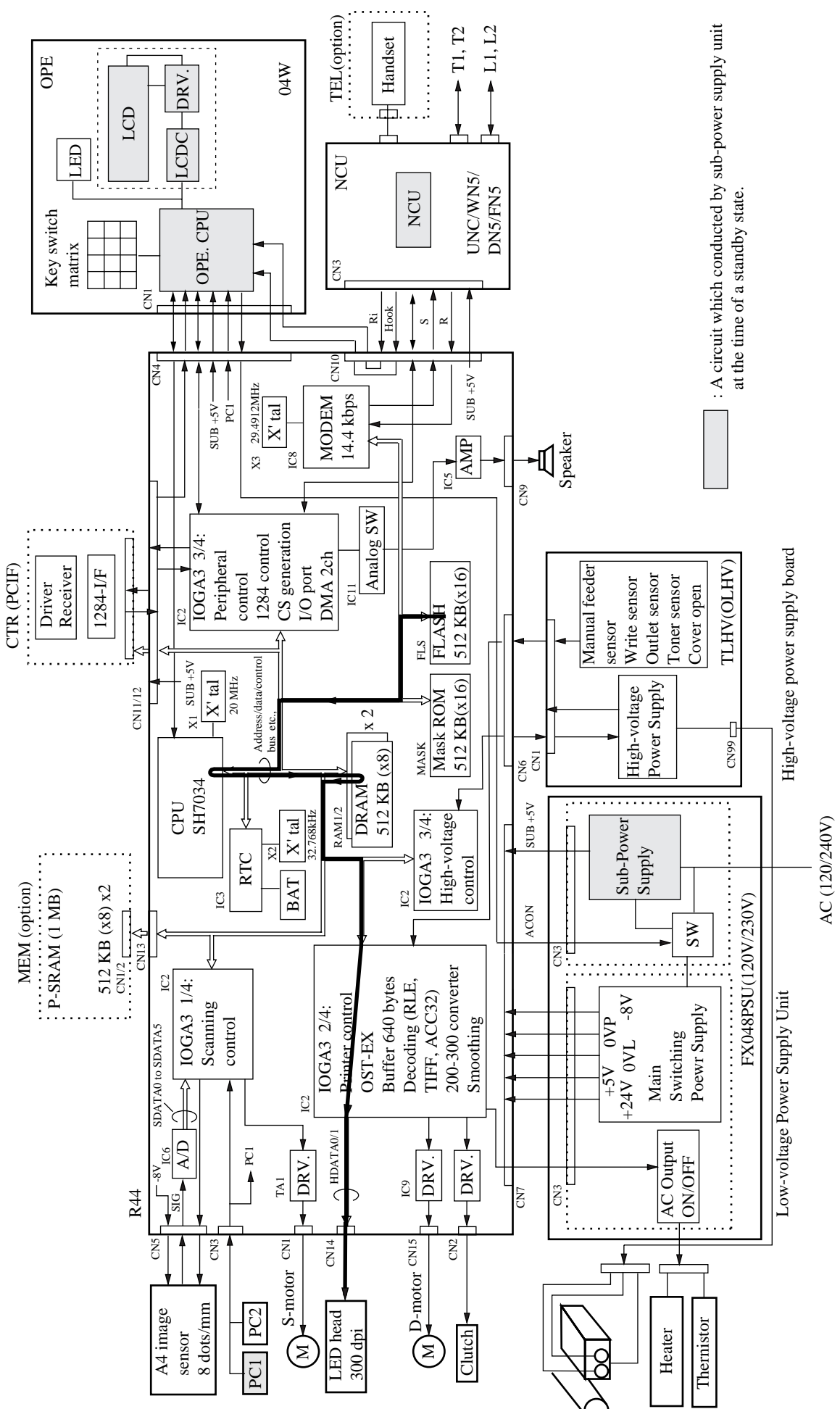
Legend:
 : A circuit which conducted by sub-power supply unit at the time of a standby state.

300 bps Receive Signal (Figure A2.1.5)

Report Printing

This signal route describes the printing route of character data used to print Activity Report, Message Confirmation Report, etc.

The report data is read into DRAM in the sequence the contents of data stored in the FLASH memory in advance under the control of CPU. The contents of data is edited on the DRAM. The data is read out from the DRAM and sent to IOGA. The data is converted into a serial data by the picture control of IOGA and transferred to the LED print head for printing as HDATA 0/1.



: A circuit which conducted by sub-power supply unit at the time of a standby state.

Report Print Signal (Figure A2.1.6)

Memory Transmission

This signal route describes the memory transmission used in broadcast mode, delayed broadcast mode, etc.

The stored encoded data undergoes buffering, passes through CPU, MODEM and NCU and then sent out to the telephone line.

Memory Reception

This signal route describes the memory reception used in no-paper mode, no-toner reception, confidential mode, etc.

The encoded data received by the same route of (3) G3 receive mode undergoes the picture data processing and stored into memory (DRAM) as such. In case of printing, When the data for one page has been stored in the memory (DRAM), the data is read out from the memory and sent to IOGA. The printed data is converted into a serial data by the printer control of IOGA and transferred to the LED print head for printing as HDATA 0/1.

A3.1 R44 Circuit Diagram

A3.1.1 R44 Circuit Diagram)

1. Block diagram

The circuit diagram consists of the CPU, crystal oscillator circuit and reset signal generator.

Figure A3.1.1 shows the block diagram of CPU and the peripheral circuits.

2. Function

1) Crystal oscillator circuit

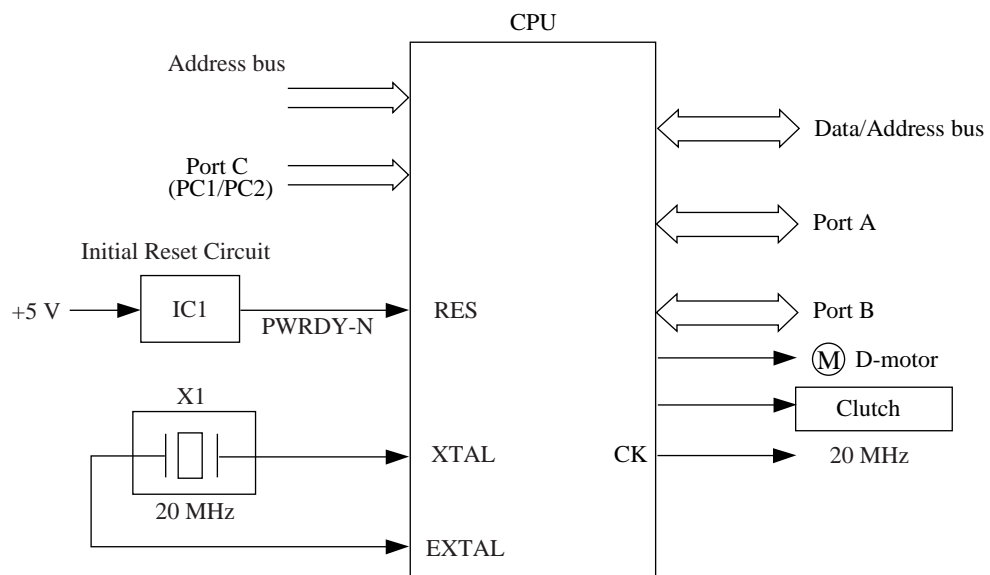
X1 is a 20 MHz crystal oscillator. The output wave is fed to the CPU through pin 73 and 74.

CLK (20 MHz) signal output from pin 71 is used as the system clock and output to IC2. (IOGA3: input/output gate array).

2) CPU

CPU controls the following functions in addition to the basic processor.

- DMA (Direct Memory Access) control
- Interrupt procedure control
- A/D converter
- Bus state control
- Programmable pattern control
- 16 bit integrated timer pulse unit (ITU)
- Timing pattern control (TPC)
- Serial communication interface (SCI)



Related Signals of CPU (Figure A3.1.1)

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A3.1.2 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of an input/output gate array IC2 (IOGA3).

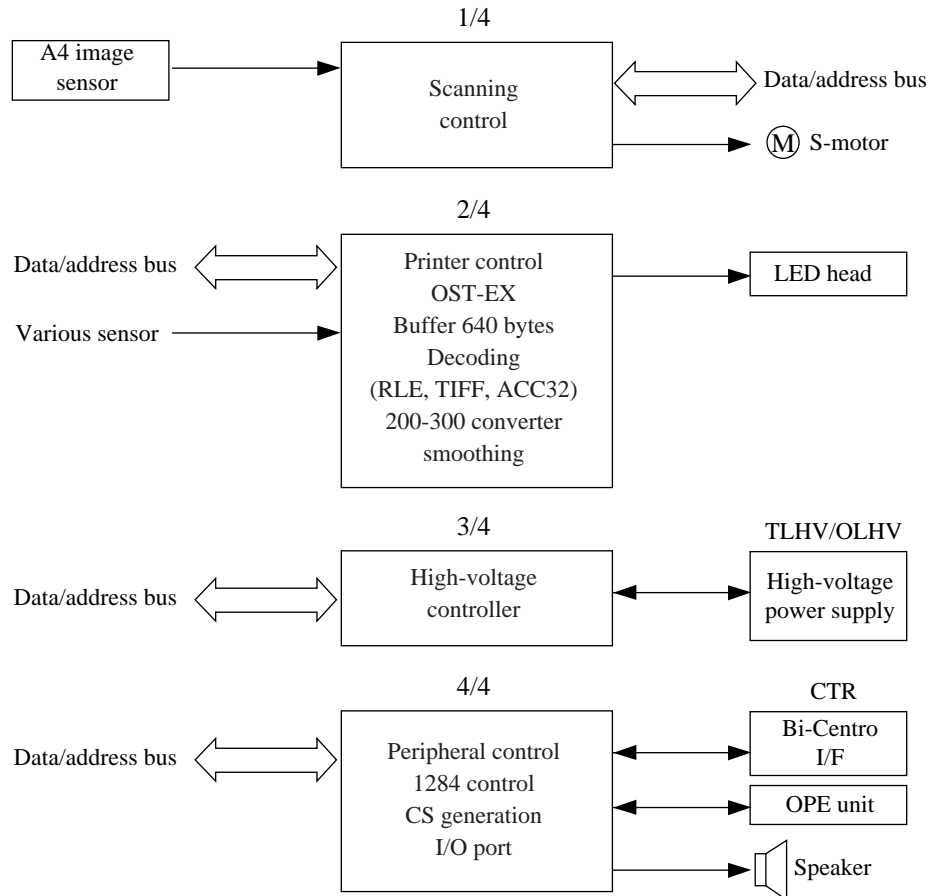
Figure A3.1.2 shows the related signals of IOGA3.

2. Functions

IOGA3 is a newly developed LSI for scanning and printing control of the OKIOFFICE 44.

IOGA3 contains the following functions:

- Scanning sensor control
- Send motor control
- Various image data processing control for scanning data
- Strobe signals control for LED head
- Smoothing control for printing data
- Interface of the peripheral LSI, optional memory and CPU



Related Signals of IOGA (Figure A3.1.2)

A3.1.3 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of Flash memory, Mask ROM, DRAM, Real time clock IC and Back up battery circuit.

Figure A3.1.3 shows the block diagram of Flash memory, Mask ROM, DRAM and Real time clock.

2. Function

1) Flash memory (FLS1)

Flash memory (electrically erasable and programmable device) is used for the main software program, which is stored in EP-ROM of the current OKIFAX. Other than the function of EP-ROM, Flash memory is also used for the user data area instead of SRAM chips.

- 512 KByte Flash memory x 1 (FLS)
Used for work area, report recording etc.

2) Mask ROM

3) DRAM

512 KByte DRAM x 2 (RAM1 and RAM2)

- Used as follows:
Picture memory for the ECM send/receive mode.
Picture memory for the memory transmission mode.
Picture memory for the retransmission mode.
Picture memory for the reception in memory.
Editing for report printing.

4) Back-up battery circuit

The non-rechargeable lithium battery supplies voltage to a real-time clock IC at AC main interruption.

5) Real-time clock IC (IC3)

IC3 is a real-time clock IC used as a timepiece to display the data and time in year, month, day, hour, minute, and second units. Its input/output signals are the 4-bit data bus (AD00 - AD03), 4-bit address bus (A01 - A04) and the control signals, RTCCS, MDMRD-N and MDWR-N which perform a CPU-controlled read operation (M/D/Y H:M, Data read) and write operation (M/D/Y H:M, Data setting).

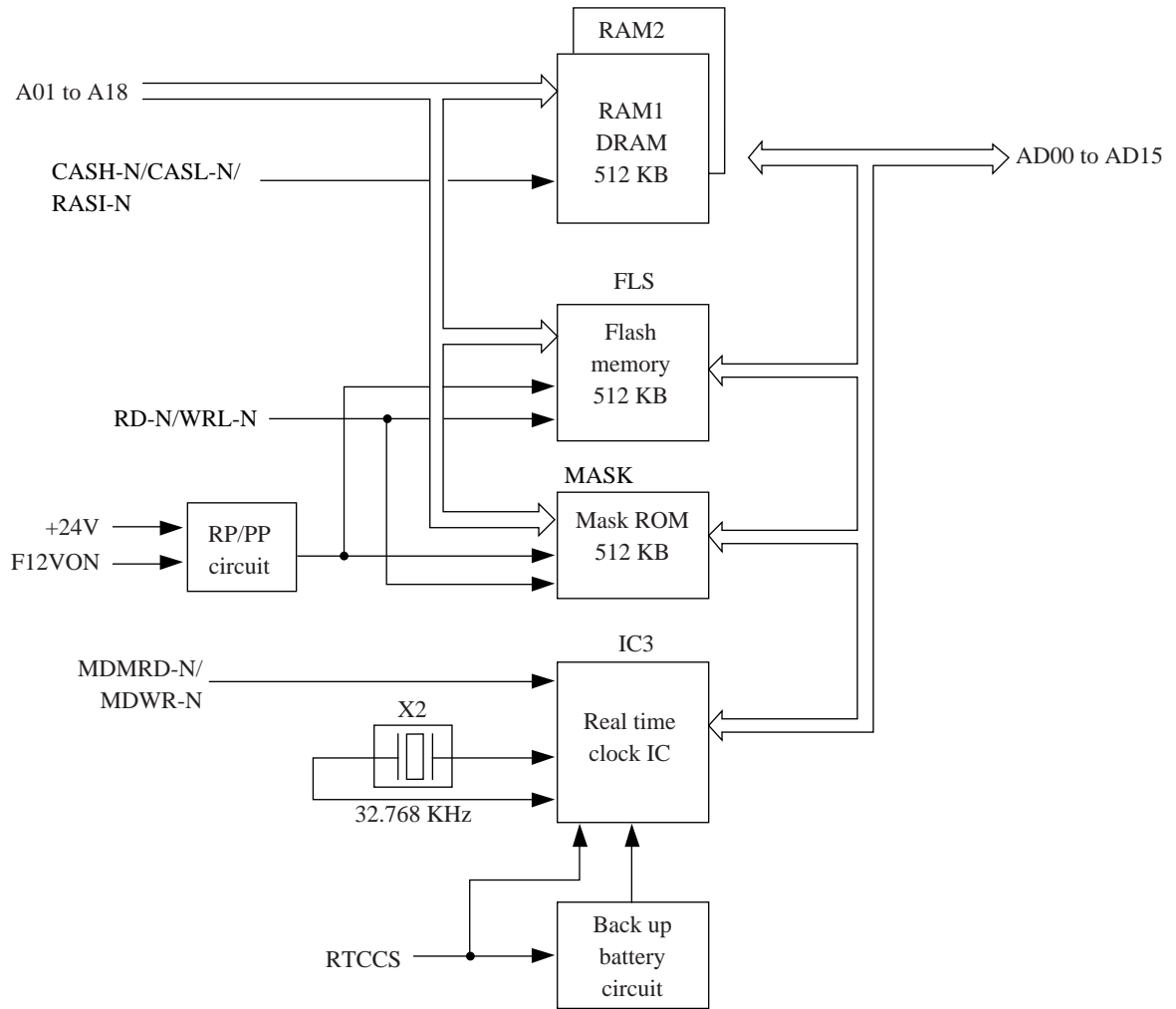


Figure A3.1.3 Block Diagram of DRAM/Flash Memory/Mask ROM and Real-time Clock IC

A3.1.4 R44 Circuit Diagram

1. Block diagram

The audio monitor circuit consists of IC11 (analog switch IC) and IC5 (amplifier) generates the following audio monitor.

- Line monitoring
- Buzzer signals

Figure A3.1.4 shows the block diagram of audio monitor circuit.

2. Function

1) Line monitoring

Send and receive signals are input from the transformer on the NCU board to this circuit as a R signal and the signal power is input to the IC11. The IC11 adjusts the monitor volume by MONC0, MONC1 and MONC2 signal under the control of IOGA3. Output (high and low) from IC11 passes through the amplifier and is fed to the speaker as a SP signal.

* MONC0/MONC1/MONC2 signal: Volume control signal.

Note: In case of transmission mode, the monitor will be available during dialing, but the monitor will be switched off automatically after the elapse of specified time (about 5 sec).

2) Buzzer control

Alarm and other signals are input from CPU to this circuit as BZ signals. The various buzzer signals are sounded under the control of CPU.

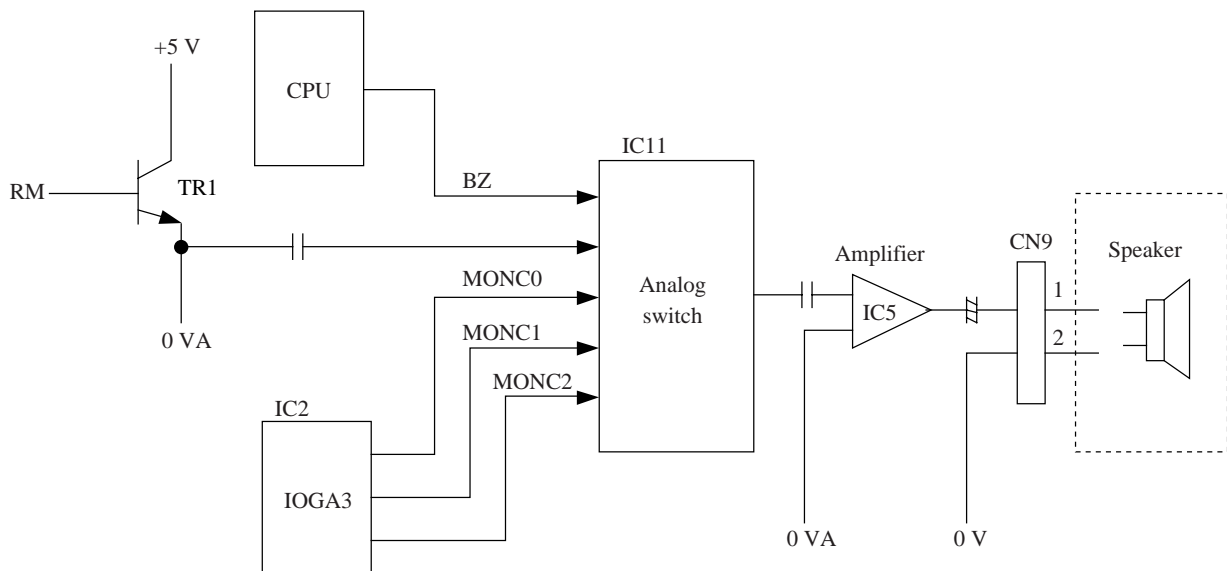


Figure A3.1.4 Block Diagram of Audio Monitor Circuit

A3.1.5 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of the following functions:

- IC6 (A/D converter)
- 30 V/24 V conversion circuit
- Connector CN5 that provides an interface between R44 board and CIS (contact image sensor).

Figure A3.1.5 shows the related signals and block diagram of CIS.

2. Function

One-line picture data is read in the sequence from the scanning unit (CIS) as SIG signal (analog data) to A/D converter (analog/digital converter) of IC6. After conversion from analog data to 6-bit digital signal (SDATA0 - SDATA5) under the control of IC6, this picture data is sent to IOGA3 (input/output gate array). Here, the picture data undergoes various kinds of picture processings.

Sensor interface signal output from IOGA3

- LEDON : LED on/off control signal
- SNSCLK : Scanning sensor drive clock (714.286 kHz)
- MISP : Scanning synchronous signal (5 msec)
- ADCLK : Sampling clock for A/D converter (714.286 kHz)

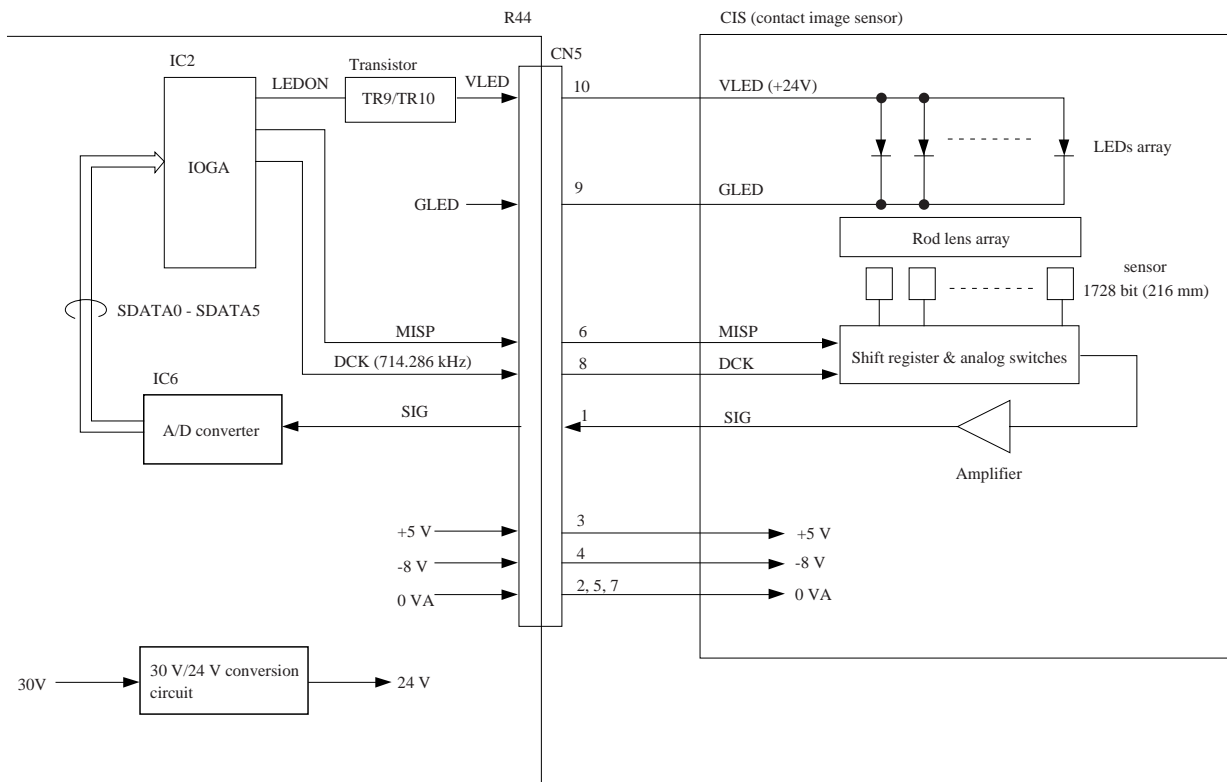


Figure A3.1.5 Related Signals and Block Diagram of CIS (contact image sensor)

A3.1.6 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of Modem (14.4 kbps).

Modem consists the following functions:

- Modulation/demodulation

Modulation type:

- 1) ITU-T Rec. V17 (14400/12000/9600/7200 bps) for G3 picture data.
- 2) ITU-T Rec. V29 (9600/7200 bps) for G3 picture data.
- 3) ITU-T Rec. V27 ter (4800/2400 bps) for G3 picture data.
- 4) ITU-T Rec. V21 channel 2 (300 bps) for binary signals defined in ITU-T Rec. T.30.

- Automatic adaptive equalizer for G3 receive data with 300 bps data excluded.
- Generation of signal tones
- PB tone (multi-frequency tone) generation
- Detection of single tones
- D/A converter for send data (TX)
- A/D converter for receive data (RX)
- Amplitude equalizer for RX
- Selectable attenuation for TX
- Automatic gain control

Figure A3.1.6 shows the related signals of Modem.

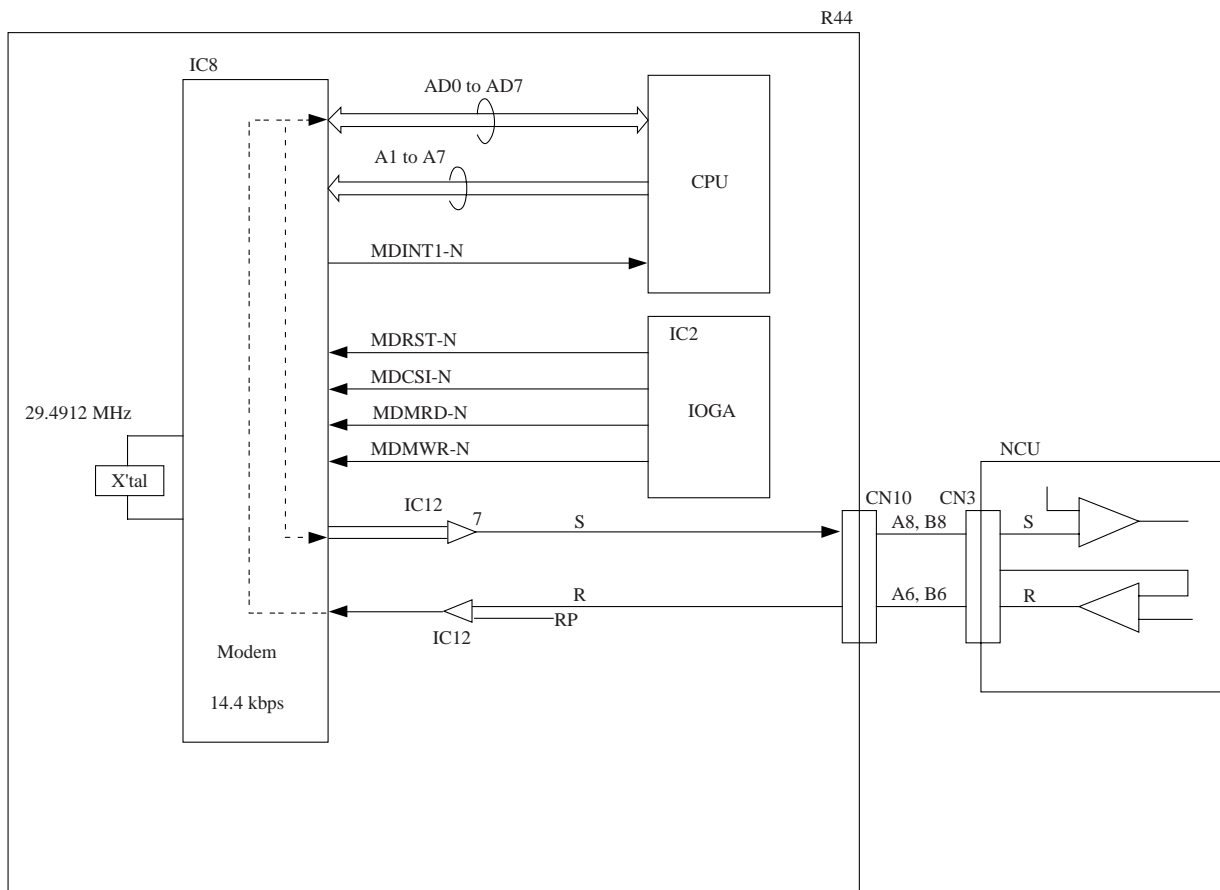


Figure A3.1.6 Related Signals of Modem

A3.1.7 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of connector CN14 that provides an interface between R44 board and LED print head.

Figure A3.1.7 shows the related signals and block diagram of LED print head.

2. Function

Data of 1664 LEDs on the LED print head is loaded into the shift registers by the HCLCK (1.0 MHz) signal. After the 1664 bit (208 mm) data is loaded in the shift registers, it is then loaded in the latch circuit by the HLATCH signal. The turning -on and off of the LEDs are controlled by STRB1-N to STRB4-N signals.

LED head interface signals output from IOGA1

- HDATA 0 : Print data i.e., data to be printed
- HCLCK : Transfer clock for print data (4.0 MHz)
- HLATCH : Latch signal for print data
- STRB1-N to STRB4-N : LED head strobe signals

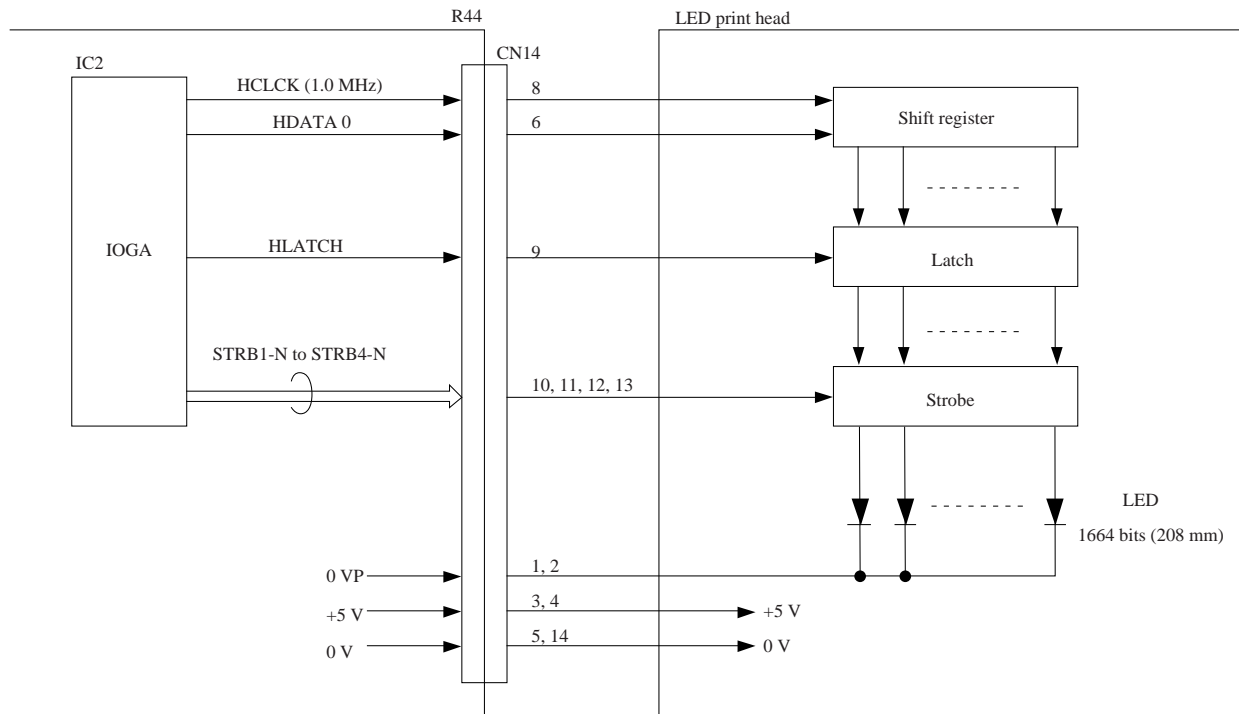


Figure A3.1.7 Related Signals and Block Diagram of LED Head

A3.1.8 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of the following connectors:

- Connector CN10 that provides an interface between R44 board and NCU board.
- Connector CN3 that provides an interface between R44 board and external electro-mechanical components (PC1 and PC2).
- Connector CN4 that provides an interface between R44 board and OPE (O4W) unit.

Figure A3.1.8 shows an interface between R44 board and NCU board.

Figure A3.1.9 shows an interface between R44 board and OPE unit.

Figure A3.1.10 shows the related signals of PC1 and PC2.

2. Function

1) External status supervising interface (PC1/PC2)

External status is detected by the photocouplers (PC1/PC2) in the mechanism and the signal is output to the input port of CPU via this interface circuit.

- PC1: Presence of document on hopper.
When sub-power supply is applied to the fax machine, this signal is output to OPE unit which will control the main-power supply.
- PC2: Presence of document at scanning position.

3. Others

NCU interface signal

- CML : Line seizure control signal
- DP : Dial pulse control signal
- SR : Control signal for connection between LINE and TEL terminals
- MUTE : Control signal for pulse dial improvement and bell shunt relay
- PP : Relay control signal for special service code detection at parallel pickup or remote reception
- PBXE : Control signal for connecting one of LINE terminal to the PBXE terminal
- OH2-N : Detection of off-hook of terminal connected to TEL-1 or TEL-2
- OH1-N : Output upon circuit current detection after fax line seizure
- RP : Receiving sensitivity determination terminal
- RI : Ringing detection signal
- S : Send signal (picture data/protocol/tonal signals/PB tone etc.)
- R : Received signal (picture data/protocol/tonal signals etc.)

OPE interface signals

- TXDOPE : This signal transmits sequentially the contents of each data of TXD (LED on/off information, etc.) to OPE in serial data from CPU.
- RXDOPE : This signal transmits sequentially the contents of each data of RXD (key code information, etc.) to CPU in serial data from OPE.
- OPECHK : Use to monitor the operation of the OPE unit.
- OPERST : Reset signal for OPE unit
- WAKEUP-N : Wakeup signal

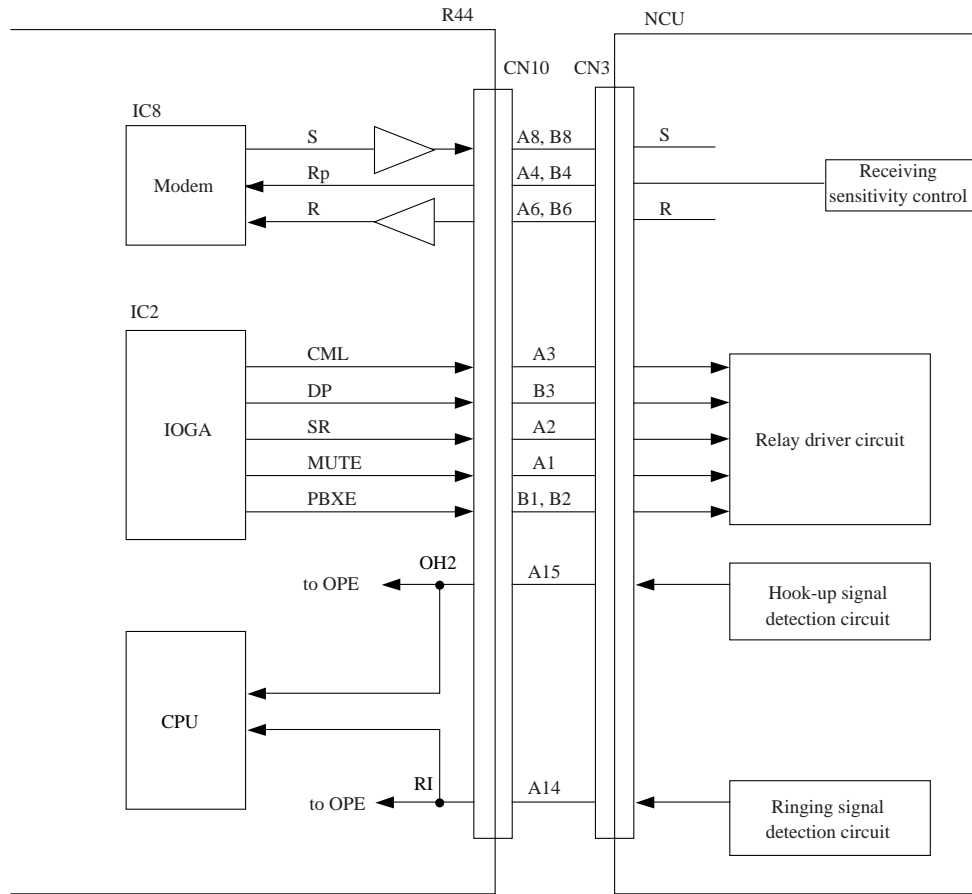


Figure A3.1.8 Interface between R44 Board and NCU Board

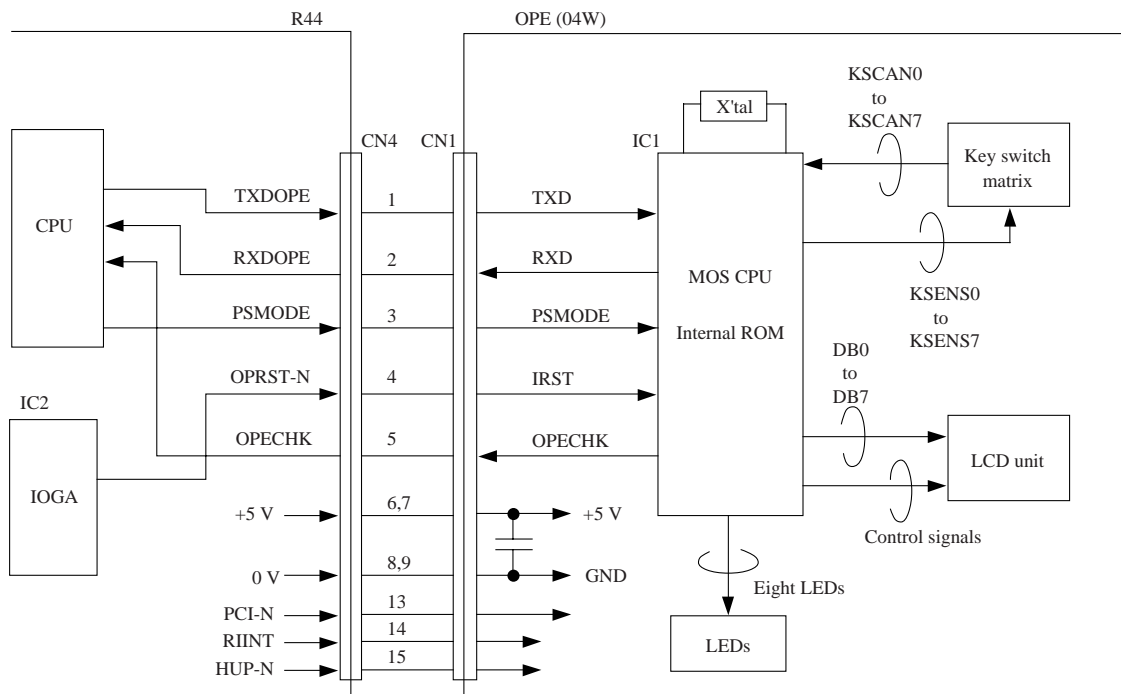


Figure A3.1.9 Interface between R44 Board and OPE (operation unit)

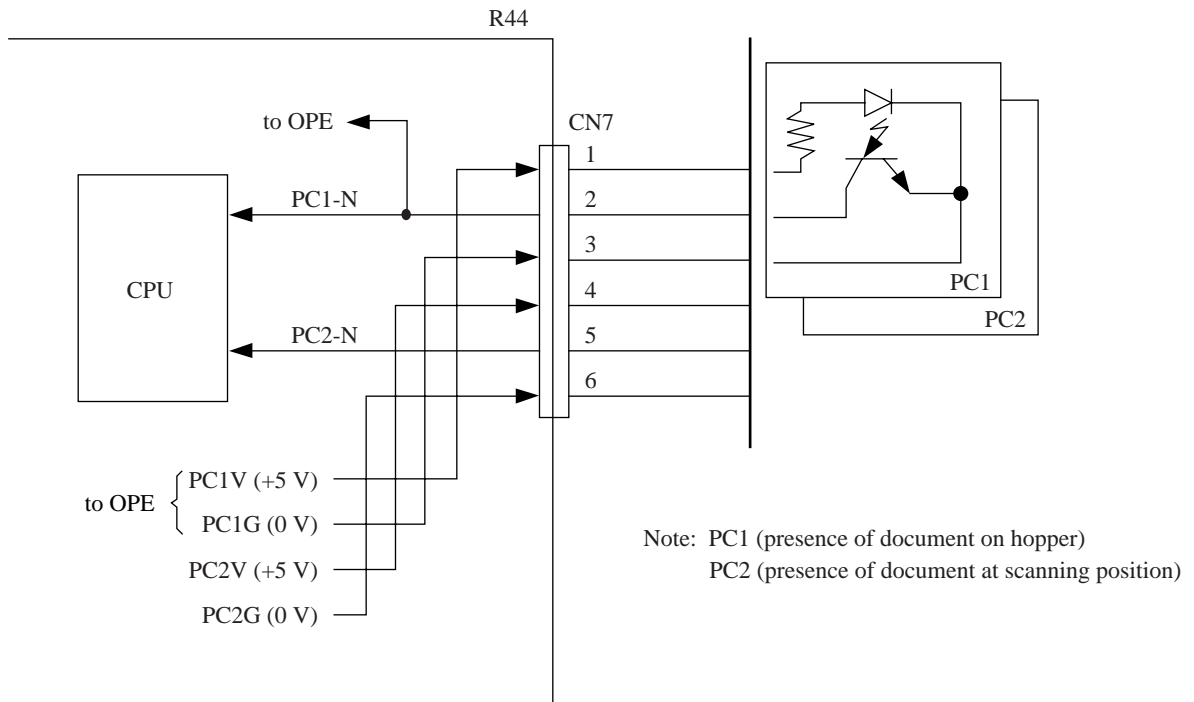


Figure A3.1.10 Related Signals of PC1/PC2

A3.1.9 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of the following functions and connectors:

- IC9 (Drum motor driver)
- TR4/TR2 (Clutch driver)
- Connector CN15 that provides an interface between R44 board and the resist motor.
- Connector CN2 that provides an interface between R44 board and the clutch.

Figure A3.1.11 shows the related signals of the drum motor and clutch.

2. Function

1) Drum motor control

This drum motor is driven by the motor driver IC9. It is two-phase excited and bipolar-driven according to the DMPH1, DMPH2 and DMON1-N signals that are generated from the CPU. This drum motor rotates the image drum.

2) Clutch

When starting to print, performs the paper supply of recording paper by using this clutch. Clutch is driven by CLUTCH signal generated from CPU.

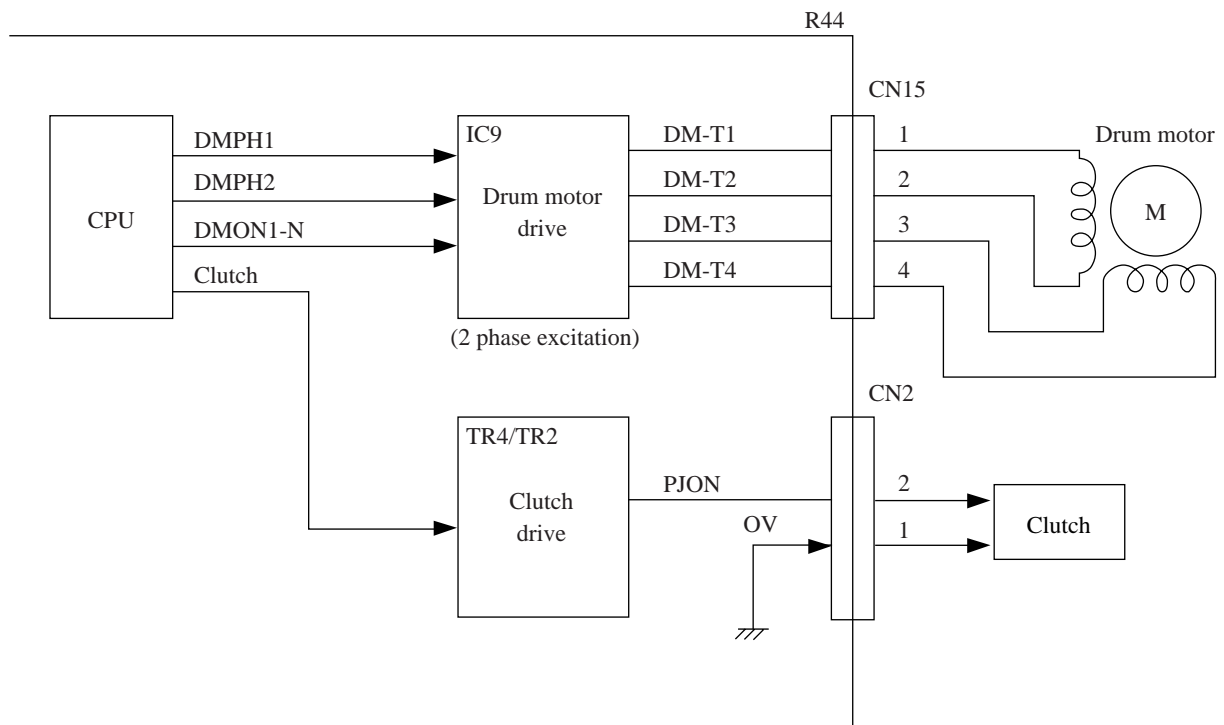


Figure A3.1.11 Related Signals of Drum Motor and Clutch

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A3.1.10 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of the following function and connectors:

- TA1 (Send motor driver)
- Connector CN1 that provides an interface between R44 board and the send motor.

Figure A3.1.12 shows the related signals of the send motor and fan motor.

2. Function

1) Send motor rotation and chopper control

Send motor drive signals are generated by the IOGA3 and output to send motor via TA1 (motor drive IC) of this circuit.

Note: The built-in motor control circuit of IOGA3 consists of the following blocks:

- Setting of the excitation operation
- Setting of the chopping operation
- Setting of the motor exciting method (1-2/2-1 phase excitation)

a) Send motor rotation control

There are several cases of the rotation operation:

Forward rotation for feeding documents.

- Case 1: Feeding document from hopper to the position where one line data is read.
- Case 2: Feeding document while reading.
- Case 3: Feeding document after a page has been read.

b) Send motor chopper control

The purpose of chopper control is to reduce the current to the motor by setting the phase signal on and off intermittently when a time lapse exceeding a specific time occurs without a phase update.

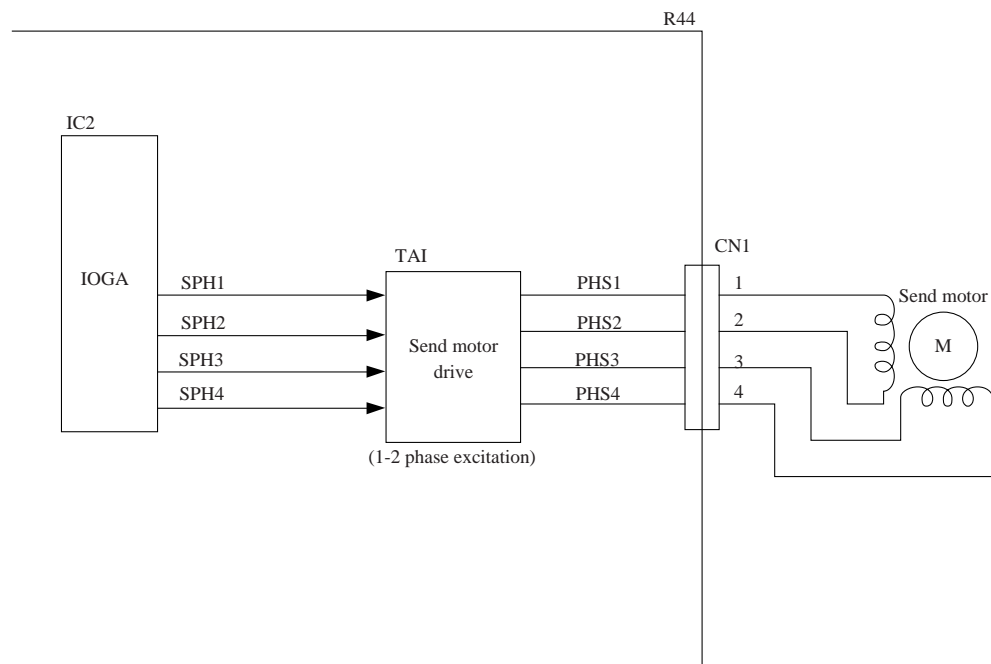


Figure A3.1.12 Related Signals of Send Motor

A3.1.11 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of the following connectors:

- Connector CN13 that provides an interface between R44 board and optional memory board.
- Connector CN11 and CN12 that provides an interface between R44 board and optional CTR board.

Figure A3.1.13 shows the interface between R44 and memory board.

Figure A3.1.14 shows the interface between R44 and CTR (PC interface unit) board.

Note 1: A 1 Mbyte (MEM-2) memory board can be added to the memory capacity for OKIOFFICE 44.

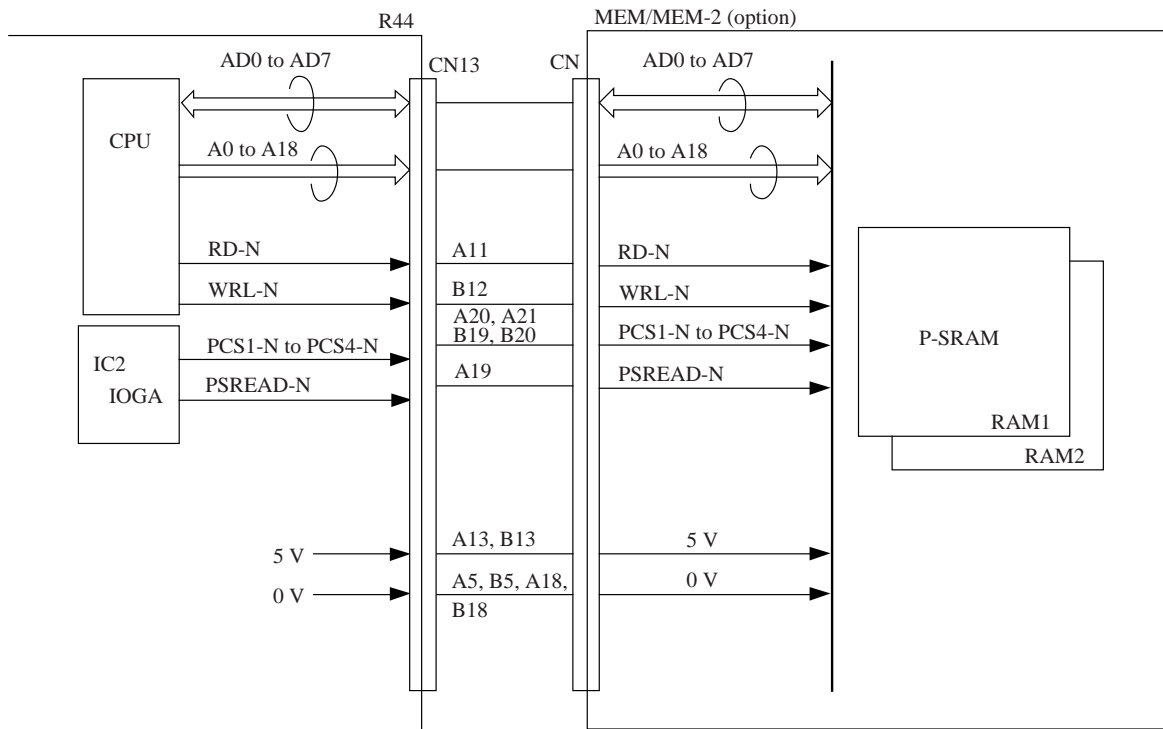


Figure A3.1.13 Interface between R44 Board and Memory Board (option)

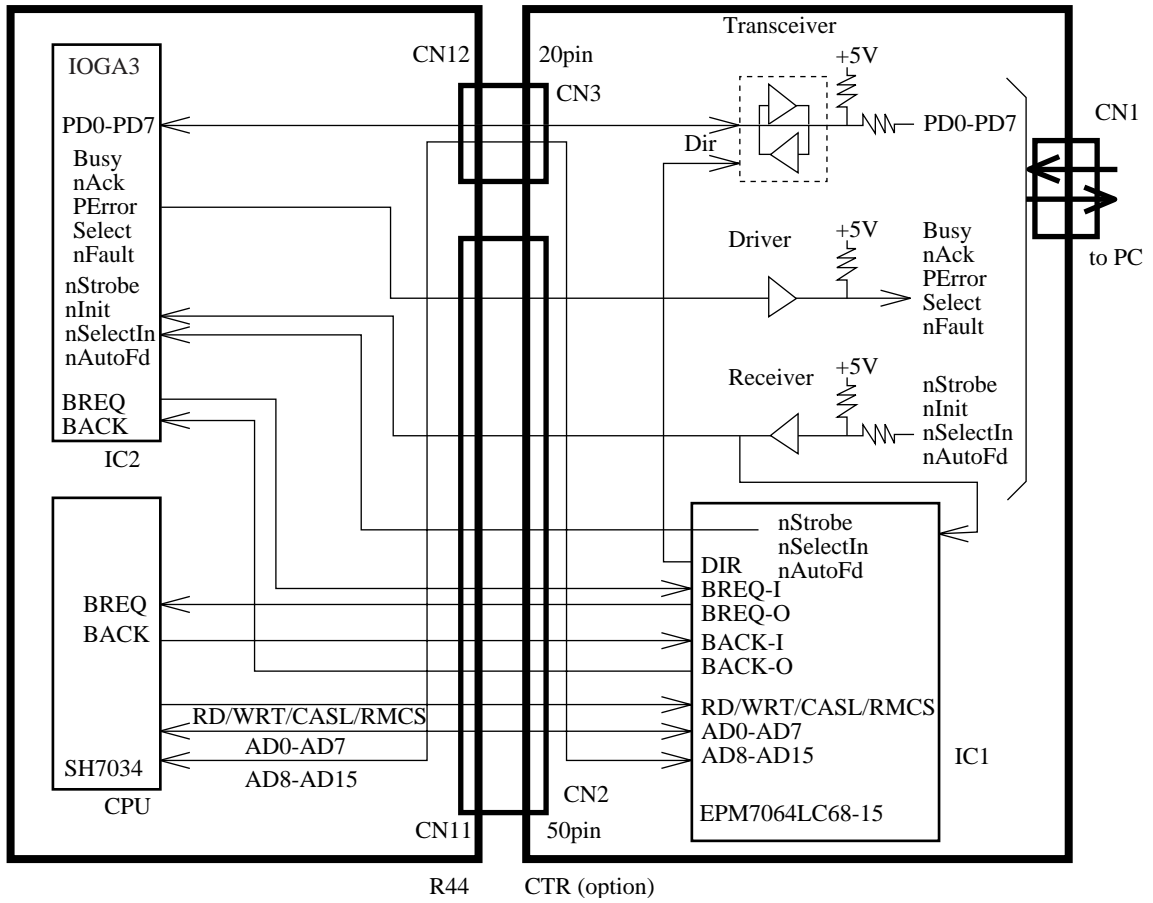


Figure A3.1.14 Interface between R44 Board and CTR Board (PC interface unit)

A3.1.12 R44 Circuit Diagram

1. Block diagram

The circuit diagram consists of the following connector:

- Connector CN6 that provides an interface between R44 board and power supply unit.

2. Function

1) Sensor and switch control

Five types of sensors are used in the printer as listed below. All of their output enter IOGA ports for referring to and processing by the CPU.

Figure A3.1.15 shows sensors and switch control.

- Inlet sensor 1
- Write sensor (To detect the paper top position for printing)
- Outlet sensor
- Toner end sensor
- Cover status switch

The functions of various sensors are described in the following table.

Sensor Type	Sensor Name	Function
PSIN1-N	Inlet sensor 1	This photosensor is positioned before the resist roller to detect whether the paper has entered into the printer section.
WRSNS-N	Write sensor	Detects the arrival of paper at designated position on the paper transport route inside the printer in order to turn on the light of the LED head. 0: Paper exists, 1: Paper does not exist
PSOUT-N	Outlet sensor	Located at the exit of the printer to supervise the paper exit operation. 0: Paper exists, 1: Paper does not exist
TNRSNS-N	Toner sensor	Detects the remaining toner in the toner cartridge. "The length of time of low-toner state within fixed time interval" detects a low-toner state.
CVOPN-N	Cover open sensor	Detects whether the cover of the printer section is open or not. 0: Cover is open, 1: Cover is close

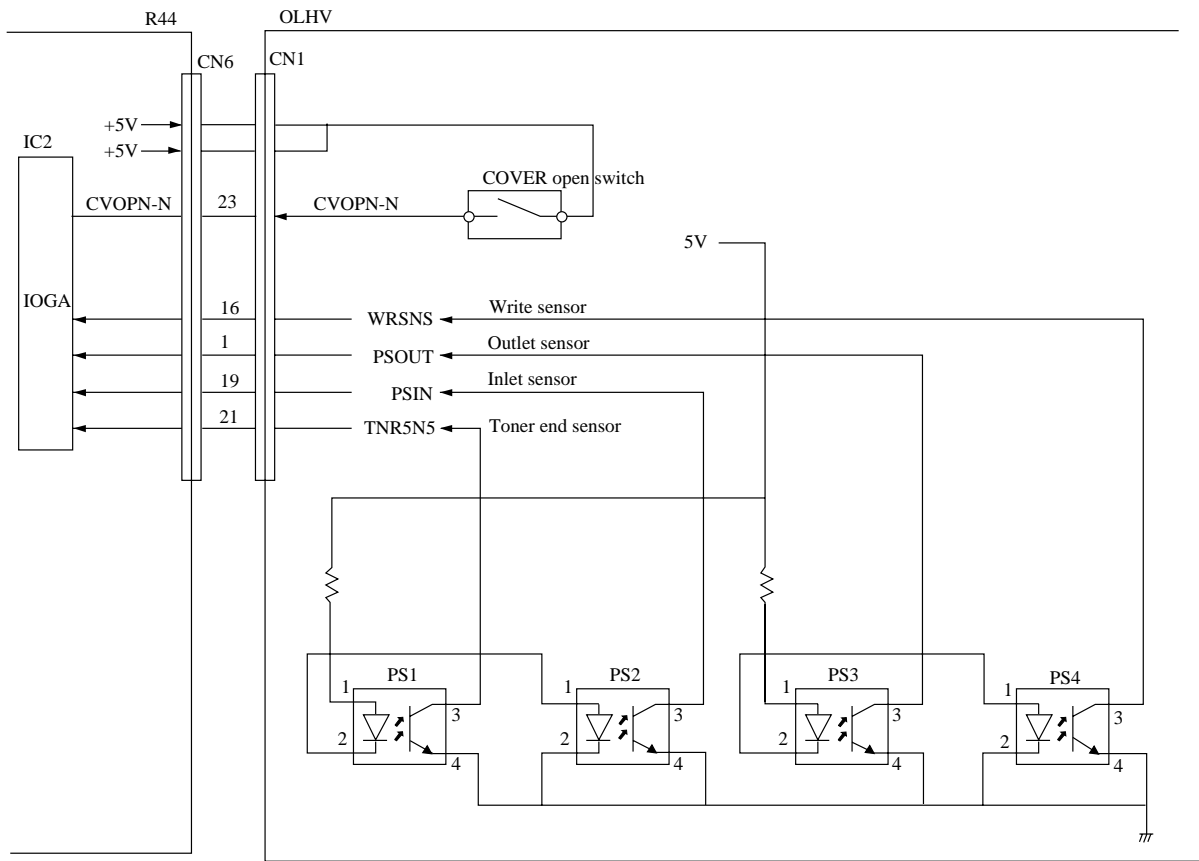


Figure A3.1.15 Sensor and Switch Control

2) Fuser unit temperature control

The heater in the fuser unit is controlled by the thermistor, IOGA and CPU to keep the heater roller surface within a prescribed temperature range. The CPU supervises the status of PC0 (A/D converter input section) periodically, turning HEATON- N signal on and off according to CPU of PC0 status to exercise temperature control.

At power on time, the CPU switches the output signal THON from pin 65 (between high and low states) to check for a blown or shorted thermistor according to the status of the THCHK signal.

A built-in thermostat in the fuser unit prevents the heater from being overheated in event of failures in the thermistor, or temperature control circuit, etc.

Figure A3.1.16 shows the fuser unit temperature control.

Note: Heater control

Temperature of the heater at the time of printing is 150 °C to 180 °C. This temperature is maintained by controlling the on and off operation of heater according to the input of the thermistor converted into analogue-digital (A/D) values by the CPU.

2)-1 Heater control

The ACON control signal on the secondary side is transmitted to the primary side via PC3 to turn TRC1ON for AC voltage supply to the heater.

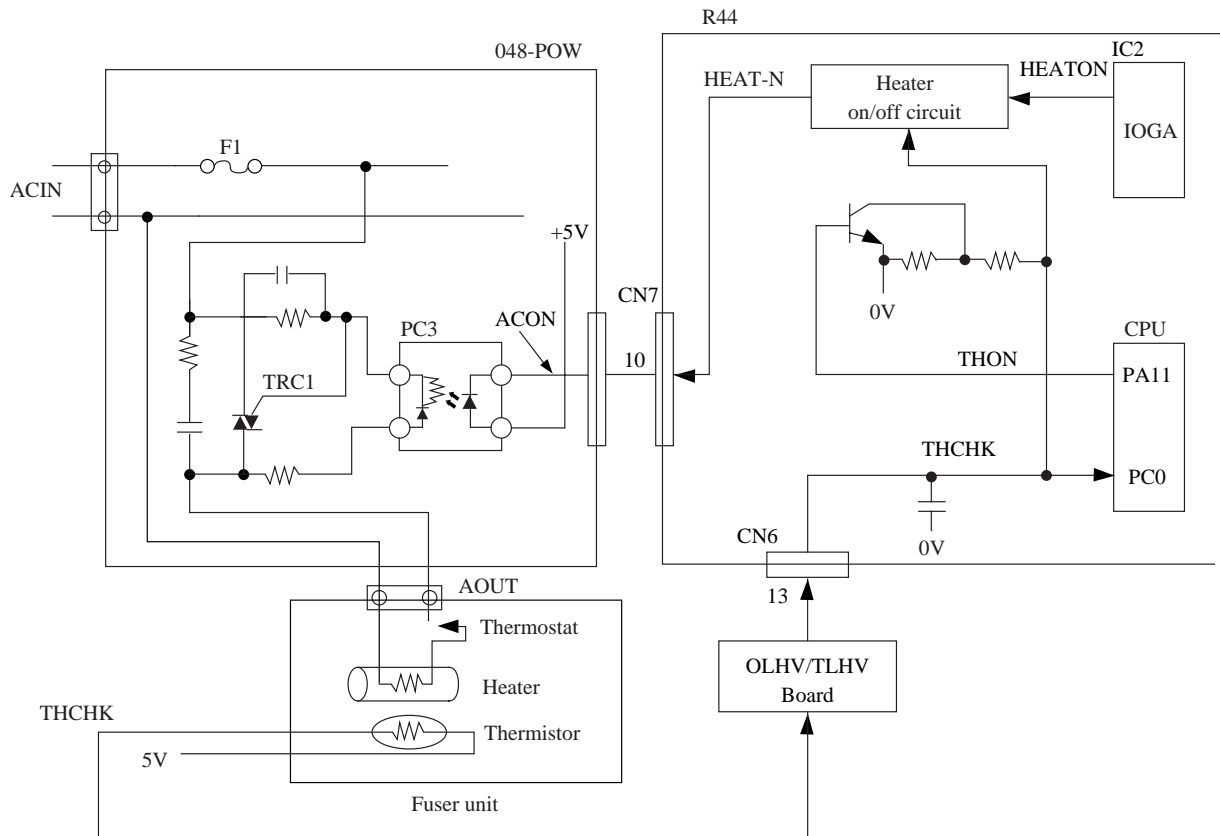


Figure A3.1.16 Fuser Unit Temperature Control

3) High-voltage and medium-voltage control

High voltages are activated by IOGA and generated by the high-voltage circuit inside the power supply unit. The CH (charge) voltage of about -1.35kV is used for the charge roller. The TR1/TR2 (transfer) voltage of about +3.5kV/-0.75kV is used for the transfer roller.

Medium voltages are activated by IOGA and generated by the medium-voltage circuit inside the power supply unit. The SB1/SB2 (toner supply) voltage of about +0V/-450V is used for the toner supply roller. The DB1/DB2 (developing) voltage of about +300V/-300V is used for the developing roller. The CB (cleaning) voltage of about +400V is used for the cleaning roller.

Figure A3.1.17 shows high/medium voltages control.

* Signals used to control the high/medium-voltages are listed below.

Signal Name	Description
CHON	"1": CH is output.
DBON1	"1": + ive polarity voltage of DB/SB is output.
DBON2	"1": - ive polarity voltage of DB/SB is output.
TRON1	"1": + ive polarity voltage of TR is output.
TRON2	"1": - ive polarity voltage of TR is output.

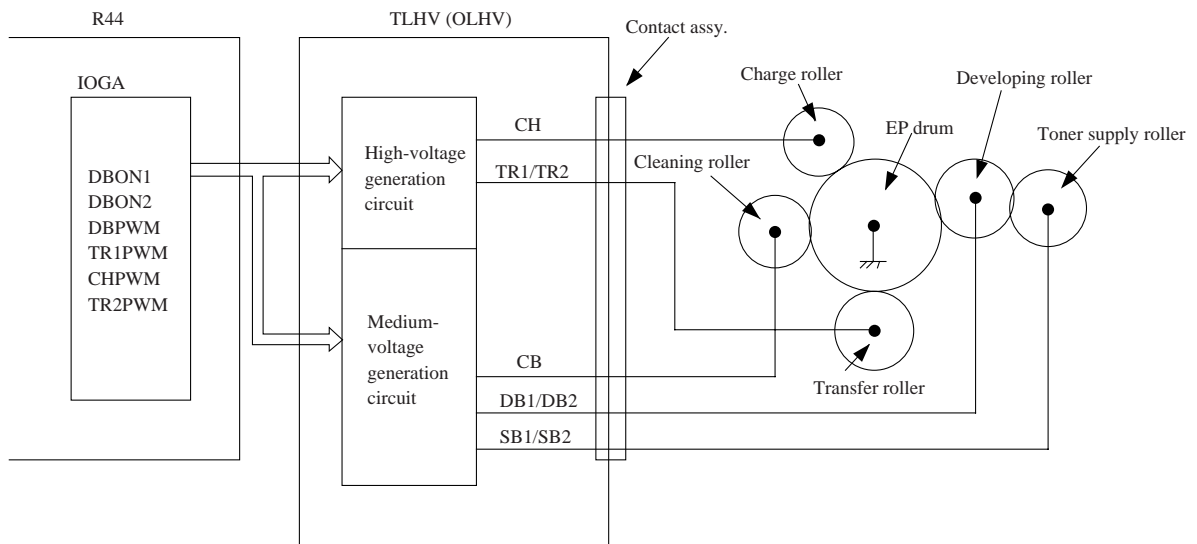


Figure A3.2.17 High/Medium Voltages Control

A3.3 OPE (04W) Circuit Diagram

1. Block diagram

Figure A3.3.1 shows a block diagram of OPE (04W).

The 04W (operation unit) circuit consists of the following blocks:

- 1) IC1 (one chip MOS-CPU)
 - Output ports
Setting LEDs on and off: 8 ports
Specifies the row during key switch matrix scanning: 8 ports
 - Input ports
Detect the column whose key is pressed: 8 ports
- 2) Key switch matrix (8 rows x 8 columns)
- 3) LEDs (8 LEDs)
- 4) LCD unit

2. Key switch scanning

Output ports (KSCAN0 to KSCAN7 signal) corresponding to 8 rows of key matrix are scanned sequentially by the software. In the case 1 is any of output from KSCAN0 to KSCAN7 signal which corresponds to the row 8 in the block diagram, the software reads input port, KSENS0 to KSENS7, and determines which in the row 8 is pressed.

3. LED drives and LEDs

Eight LEDs (ALARM, PHOTO, LIGHT, etc.) on the control panel are driven by output of IC1 via resistors R1, R4-9 and R11 respectively. An LED lights on when a port output is 1.

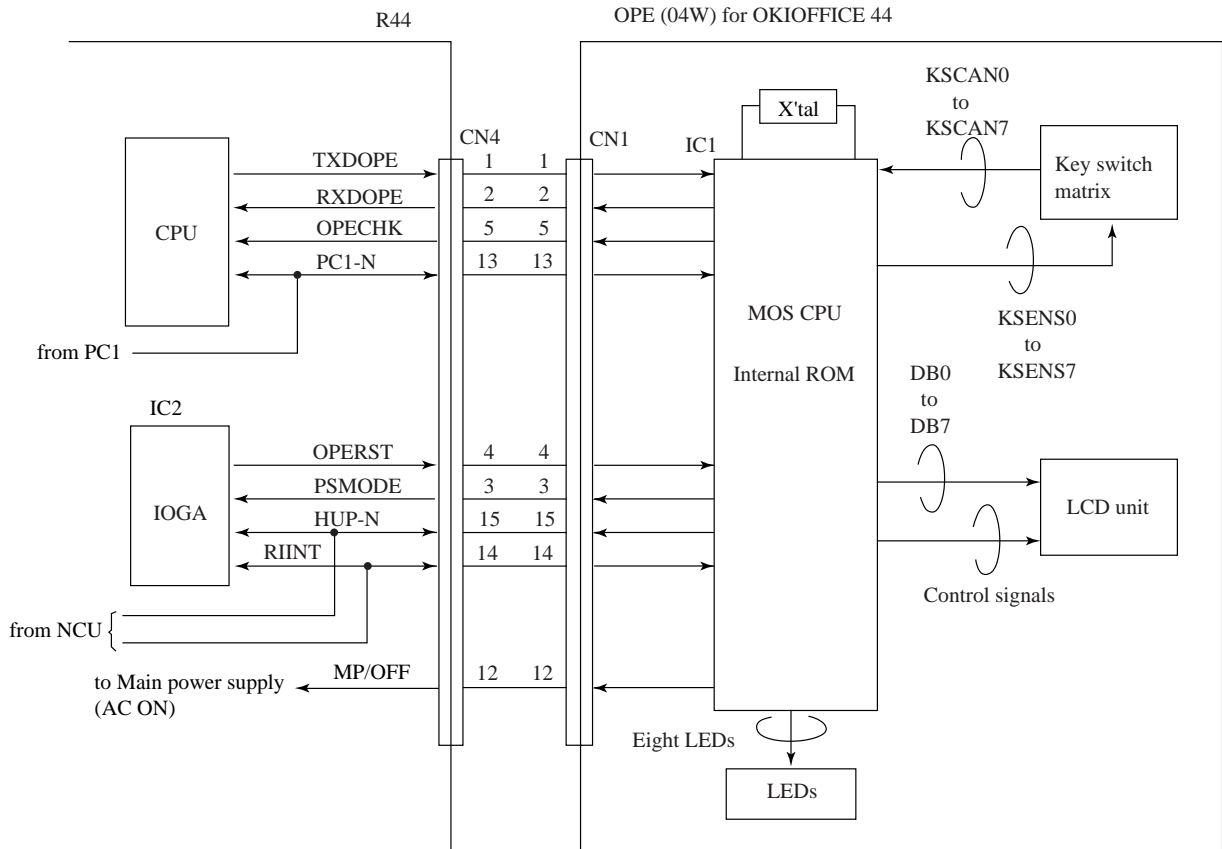


Figure A3.3.1 Block Diagram of OPE (operation unit)

A3.5 Power Supply Unit for OKIOFFICE 44

A3.5.1 048 POW (120V/230V) Circuit Diagram

IMPORTANT:

Oki Data Corporation recommends that maintenance of the Power supply unit (048 POW board) be performed by replacing the entire power supply unit, not by replacement of components.

Therefore,

- 1) circuit descriptions in this section are for reference.
- 2) orders for components of the power supply unit cannot always be accepted.

Functions of unit:

048 POW circuit generates the following direct currents (DC) based on the alternating current,

AC 120 V +6%, -15%

AC 230 V +15%, -14%

1. Low-voltage power supply circuit

This circuit generates the following voltages.

Output Voltage	Output Voltage
+5 V	Logic circuit supply voltage (IC, LSI), and high-voltage source voltage
-8 V	CIS (contact image sensor)
+24 V	Send motor, drum motor, fan drive, flash memory, CIS, and clutch

2. Input ratings

- Voltage : AC 120 V+6%, -15% (AC 102 V to 127 V)
AC 230 V+15%, -14% (AC 198 V to 264 V)
- Frequency : 50 Hz/60 Hz +/-2%

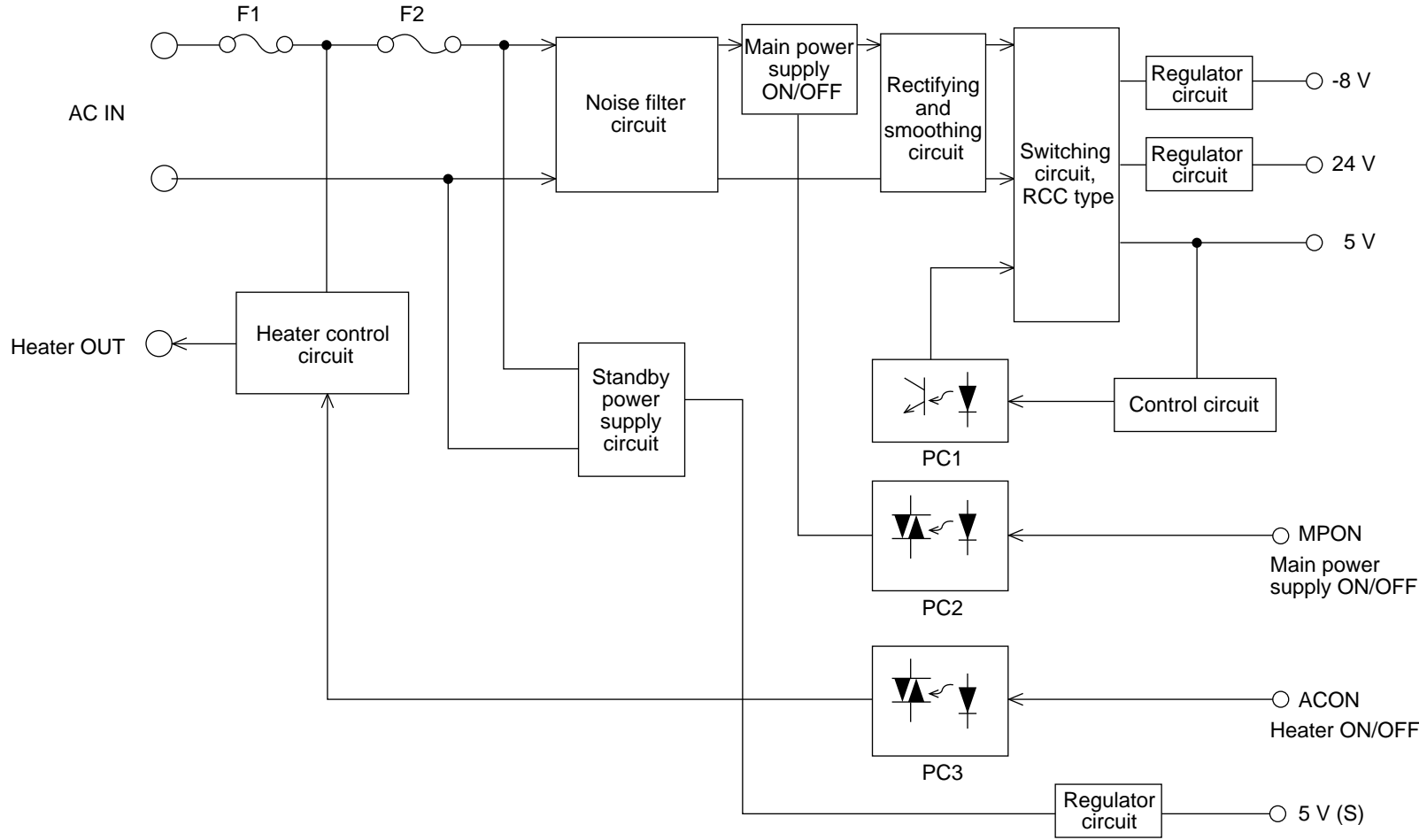
3. Output ratings

Pin No.	Rated Voltage	Rated Current	Current Range	Voltage Range	Output Ripple	Output Noise
CN3-1 to 3	+5V	1.2A	0.2 to 3.9A	5V \pm 4%	100 mVP-P	250 mVP-P
CN3-8	+24V	1.0A	0 to 1.0A	24 to 38V	500 mVP-P	—
CN3-9	-8V	0.1A	0 to 0.1A	-6.5 to -12V	100 mVP-P	250 mVP-P
CN3-12	+5VS	20mA	15 to 50mA	-5 \pm 4%	100 mVP-P	250 mVP-P

4. Block diagram

Figure A3.5.1 shows a block diagram of 048 POW.

* The information contained herein can change without notice owing to product and/or technical improvements.



Block Diagram of 048 POW (Figure A3.5.1)

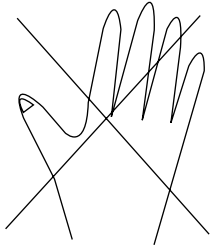
A3.5.2 OLHV/TLHV Circuit Diagram (2/2)

This circuit consists of photo-sensors and high voltage generation unit.

Note: If the high-voltage unit inside the OLHV/TLHV circuit board is replaced, the output voltage and current output from the terminals must be checked and adjusted. This section does not describe the checking and adjustment methods, however.

DANGER:

DANGER

<p>Do Not Touch !</p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 10px;">HIGH VOLTAGE</div> 	<p>You may be subjected to high-voltage electric shock by touching the following parts without an insulating material:</p> <ul style="list-style-type: none">a. High-voltage unitb. Contact ass'y
---	--

Service Caution

The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

5-6 High-voltage section

5-6-1 Functional overview

The high-voltage outputs consist of TR1 (3.5 kV), TR2 (-0.75 kV), DB1 (+300 V), DB2 (-300 V), SB2 (-450V), CB (+400 V) and CH (-1.35 kV) and are obtained as follows. The control signal obtained from IOGA of R44 board is applied to High-voltage power supply circuit. As result, the driver current is applied to the drive circuit, which will provide the high-voltage outputs.

Note:

Signal Name	Output Voltage	Application
SB1/SB2	0±5 V/-450 V	Voltage applied to toner supply roller.
DB1/DB2	+300 V/-300 V	Voltage applied to developing roller.
TR1/TR2	+3.5 kV/-0.75 kV	Voltage applied to transfer roller.
CH	-1.35 kV	Voltage applied to charging roller.
CB	+400 V	Voltage applied to cleaning roller.

5-6-2 SB2, DB1, DB2 and CB

- 1) These four high-voltage outputs are obtained from the flyback voltage of Q10.
- 2) The positive and negative voltages of DB1 and DB2 are obtained by switching the charging direction under the triac and thyristor.
- 3) Feedback is not applied to these outputs. However, SB2 is limited by D85 and DB2 is limited by D84 so as not to provide an output exceeding a preset voltage.

5-6-3 TR1 and TR2

- 1) The TR1 high-voltage is obtained by rectifying the secondary output of Q17 switching circuit by a voltage-doubler rectifier.
- 2) TR1 output circuit has both constant current (hereinafter called CC) and constant voltage (hereinafter called CV) modes.
- 3) At first, TR1 output circuit operates in the CC mode. Once the voltage determined by parameters such as roller and medium is obtained, this circuit changes to operate in the CV mode by the control signal.
- 4) The TR2 output voltage is regulated by keeping the voltage obtained by switching operation of Q15 at a constant voltage by D66 and D65.

5-6-4 CH

- 1) The CH output voltage is stabilized by keeping the primary flyback voltage obtained by switching operation of Q16 at a constant voltage by D76 and D82.

5-7 Photosensors

The photosensors mounted on this circuit board/sensor board supervise the paper running state during printing. These four photosensors are used in this printer as listed below. All of their outputs enter IOGA for referring to and processing by the CPU.

1) PS1 (photosensor 1): TNRSNS

Detects the lack of the toner.

2) PS2 (photosensor 2): PSIN

Detects the leading part of the paper and gives the supervision timing for switching from hopping operation to feeding operation. Supervises the paper running state and the paper size according to the paper arrival time and running time.

3) PS3 (photosensor 3): PSOUT

Supervises the paper feed according to the time of arrival at the sensor and the time of passage of paper.

4) PS4 (photosensor 4): WRSNS

Detects the leading part of sensor.
Supervises the paper running state.

5-8 Cover open circuit

The cover open circuit consists of CVSW. When the Cover-Main is opened, the cover open microswitch (CVSW) on the OLHV/TLHV board is turned off to cut the supply of H5V to the high-voltage power supply circuit. As a result all high-voltage outputs are interrupted. At the same time, the CVOPN-N signal is sent to the control board to notify it the off state of the microswitch, and the control board performs the cover open processing.

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A3.7 UNC5 (NCU) Circuit Diagram

Note: The relationship between NCU and optional boards (NTIF, TEL, HOOK, etc.) are shown in A3.11.

1. Block diagram
 - Figure A3.7.1 shows a block diagram of UNC5 circuit.
2. General functions of this circuit are as follows:
 - 1) Generates and detects signals to be exchanged with a telephone exchange or network in Phases A and E defined by ITU T.30.
 - Loop formation for call origination
 - Line current detection (see note 1) before call origination
 - Dial tone detection (see note 1)
 - Generation of dial pulses (see note 2)
 - Busy tone detection (see note 1)
 - Ringing signal detection
 - 2) Sends various data and signals from the R44/M17 board to the telephone line after amplification.
 - Picture data/Protocol/Tonal signals/PB tone, etc.
 - 3) Sends the following signals received from the line to the R44/M17 board as data after amplification.
 - Picture data/Protocol/Tonal signals, etc.

Note 1: This procedure may be omitted depending on the dial parameters.

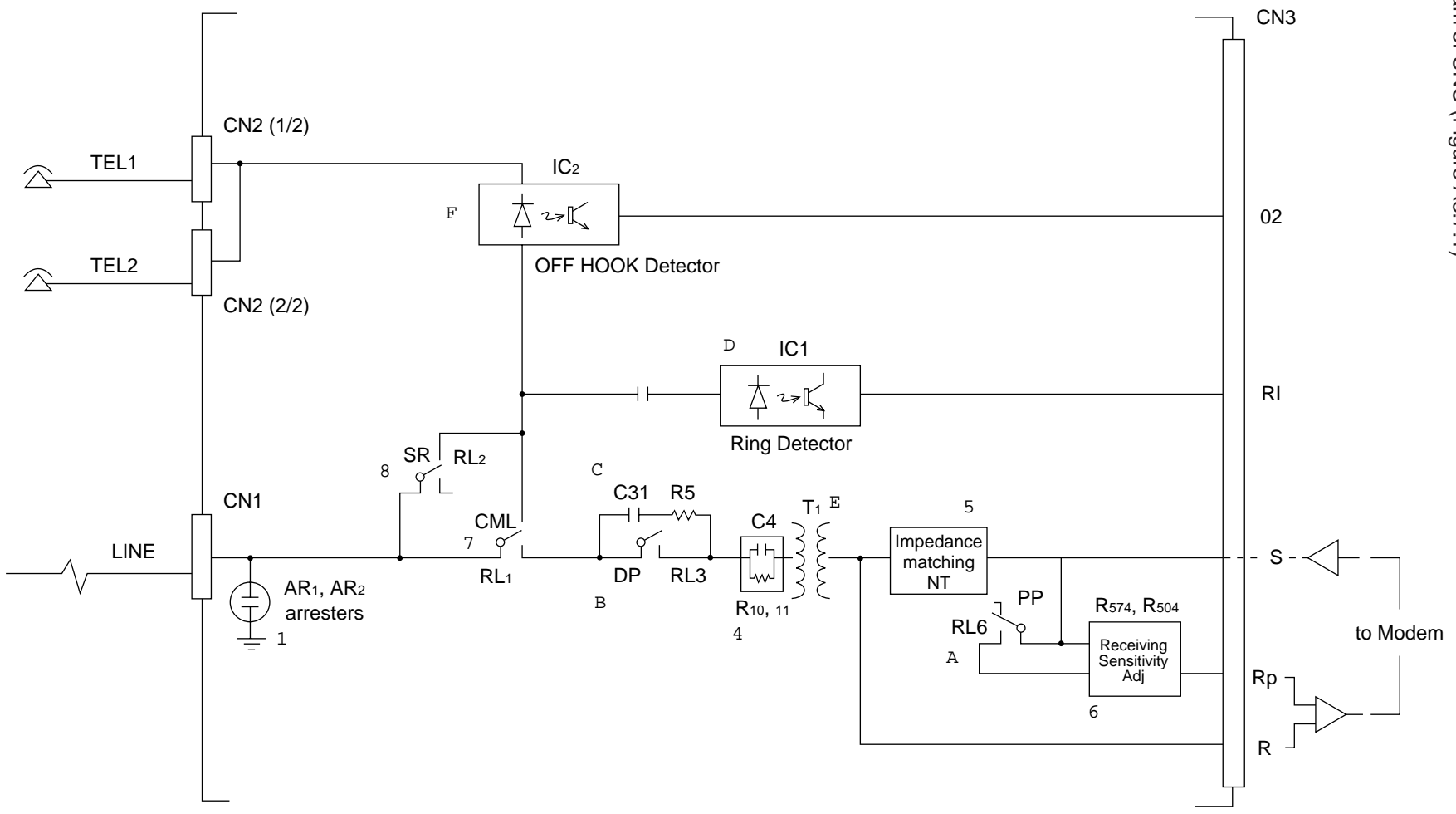
Note 2: MF (Multi-frequency) tone is generated by the modem and transferred to the telephone line via the NCU board.

4. Description of the NCU Block Diagram

4.1 UNC circuit diagram

- 1 Lightning arresters (AR1, 2)
The nominal operating voltage is 350 V.
When connecting the ground of the arrester to the chassis, tighten ARG on the PCB with a screw. At this time, the PCB is grounded through the power cable.
The TB1 arrester ground terminal can also be used to connect to the earth directly.
- 4 DC circuits (R10, R11, C4)
These circuits provide DC characteristics according to the line requirements using the primary DC resistor in the line transformer T1 and the R10 and R11 resistors. The capacitor C4 bypasses AC signals.
- 5 Impedance matching network (R523, R536, C503)
This circuit matches the impedance between the line and equipment to reduce reflection of transmitted signals.
- 6 Receiving sensitivity (R574, R504)
The receiving sensitivity at line seizing is determined by R574 and the MF tone receiving sensitivity at parallel pickup is determined by R504.
- 7 CML (RL1)
This circuit selectively switches the line between the telephone or facsimile.
- 8 SR (RL2)
This circuit connects the line with the telephone. During facsimile transmission, it disconnects the telephone.
- 11 PP (RL6)
If this circuit detects MF or CNG tones without seizing a line, it sets a proper receiving sensitivity.
- 12 DP (RL3)
This circuit generates pulse dials.
If the circuit detects MF or CNG tones without seizing a line, it opens to increase the impedance.
- 13 Pickup RC (R5, C31)
These circuits insert a high-impedance resistor and capacitor serially to prevent the line impedance from dropping by the line transformer T1.
- 14 Ring detectors (IC1)
These circuits detect a ring signal arriving to the line. If the input ring signal exceeds a specific voltage, the circuits output a signal having of RI the same frequency as incoming RI.
- 15 Line transformer (T1)
This circuit processes send/receive signals required for facsimile transmission, dial tone receive signals required for automatic dialing, and MF tone send and remote receive signals. It separates between the line and equipment in terms of DC and also keeps a balance between the line and the ground. The transformer on the UNC board for OKIFAX 5600 is covered with the shield case for the low-level receiving countermeasure.
- 16 Off-hook detector (IC2)
This circuit detects the off-hook state of the telephone connected to the TEL1, TEL2 through LINE terminals.

Block Diagram of UNC (Figure A3.7.1)



A3.8 TELU Circuit Diagram (Option)

The TEL U Board is used for control of the telephone set when the optional telephone assembly is installed on the facsimile transceiver,

1. Block diagram
 - Figure A3.8.1 shows a block diagram of TELU circuit.

2. General functions of this circuit are as follows:

- Speech IC
- Sending Level Adjustment
- Receiving Level Adjustment
- Sending Frequency Response Adjustment
- Side Tone Adjustment
- DC V-1 Characteristics Adjustment
- Return Loss Adjustment
- AGC (automatic gain control)
- Manual Pad
- Sending Frequency Response Adjustment
- Receiving Frequency Response Adjustment
- Handset Interface

3. Explanation of TEL circuit diagram

This section describes functional blocks of individual TEL circuit diagram.

- 3-1 TELU circuit diagram

TELU circuit diagram is formed by Speech IC and interface of UNC, HOOK SW and HANDSET.

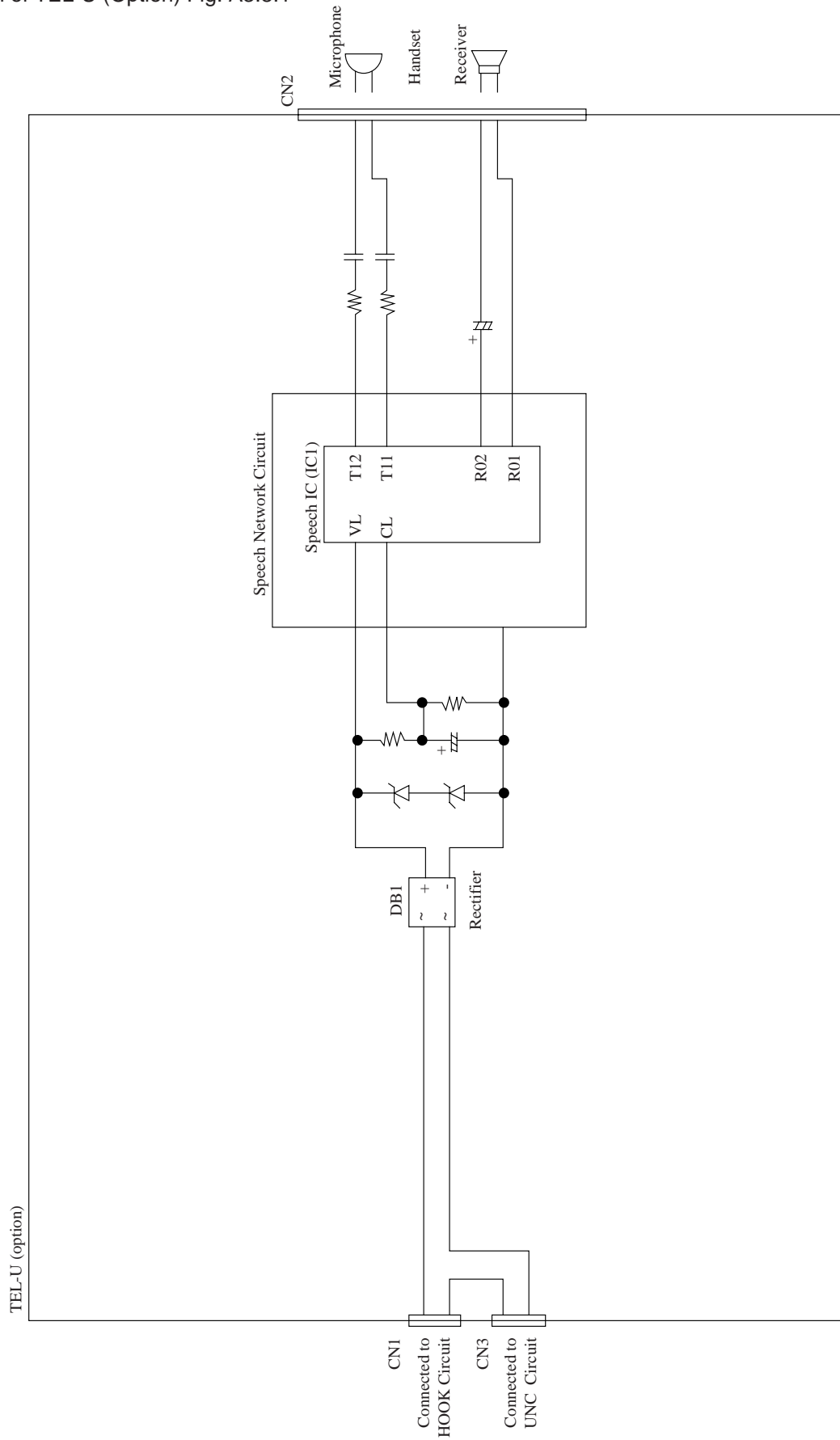
- 1) Speech IC

The hybrid circuit is formed by Speech IC.

- 2) Handset Interface

- Transmitter signal route
Signal from the microphone of the handset is input to pin 15 and 16 of Speech IC. This signal is determined by the amplification factor and output to the telephone line via UNC, Hook switch and DB2 (rectifier).
- Receive signal route
Receive signal from the telephone line enters Speech IC via UNC, Hook switch and DB2 and is output to pin 2 & 3 of the speaker of the handset.

Block Diagram of TEL-U (Option) Fig. A3.8.1



A3.10 MEMO (Memory) Circuit Diagram (Option)

By mounting this optional memory board (MEM/MEM-2), it can be used for the expansion memory.

1. Block diagram

Figure A3.10.1 shows a related signal of memory board.

MEMO/MEMO-2 circuit consists of the following block.

- 1) 512 kbyte pseudo static RAM x 4 (RAM1 to RAM4).
Used as follows:
 - Picture memory for the ECM send/receive modes.
 - Picture memory for the memory transmission mode.
 - Picture memory for the retransmission data.
 - Picture memory for the reception in memory

2) Memory capacity

- 1 Mbyte (MEMO-2) memory board can be added for OKIOFFICE 44.

The relationship between memory capacity and mounted boards are shown in the following table

Equipment	Memory Capacity	RAM1	RAM2	RAM3	RAM4	Mounted Board Name
OKIOFFICE 44						
	1 Mbyte	Mounted	Mounted	Not mounted	Not mounted	MEMO-2

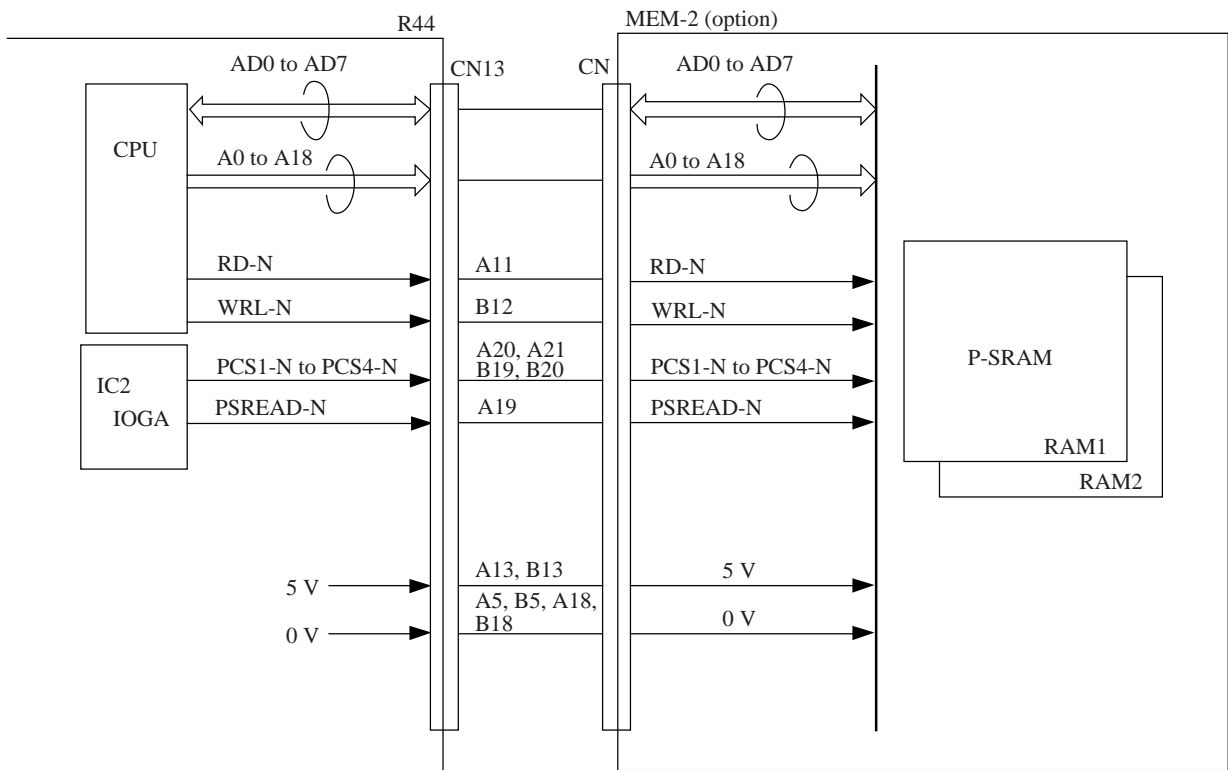
Note: The OKIOFFICE 44 does not back-up the message received in memory during a power failure.

3) Image memory capacity

	Memory Condition	OKIOFFICE 44 (pages)
With Option Board	Standard (without option)	17
	1.0 Mbyte	100

Note: No. of sheets are counted provided that ITU-T No.1 sample document is used.
No. of sheets are typical value.

Related Signals of Memory Board (Option) (Figure A3.10.1)



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A3.12 CTR (PC Interface Unit) Circuit Diagram

CTR board is used as an interface board of PC and FAX when PC is connected to facsimile machine.

1. Block diagram

CTR board circuit is formed by Receiver, Driver, and 1284-I/F.

Figure A3.12.1 shows related signals of CTR board.

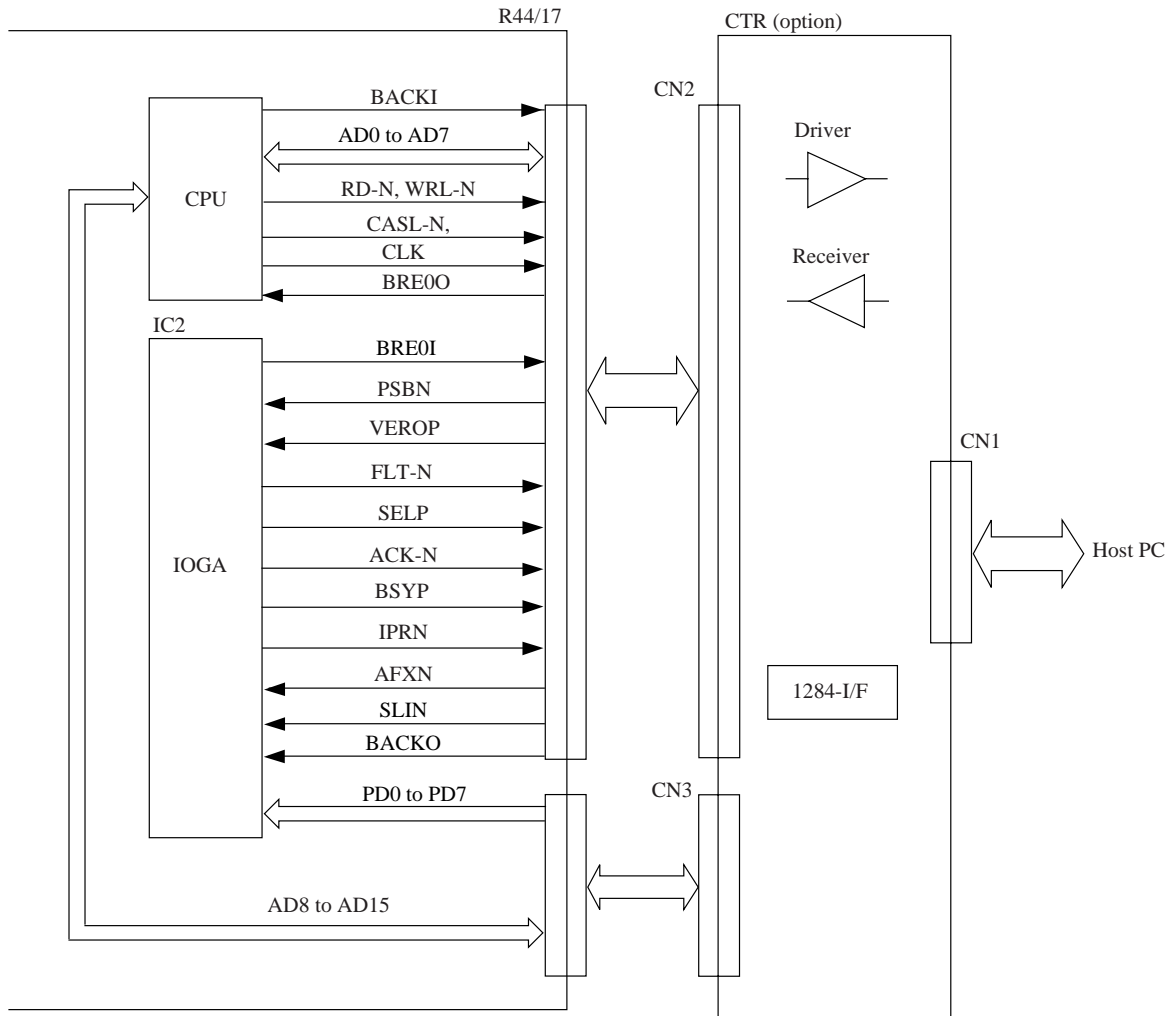


Figure A3.12.1 Related Signals of P050 (PC interface unit)

2. Function

2.1 Summary

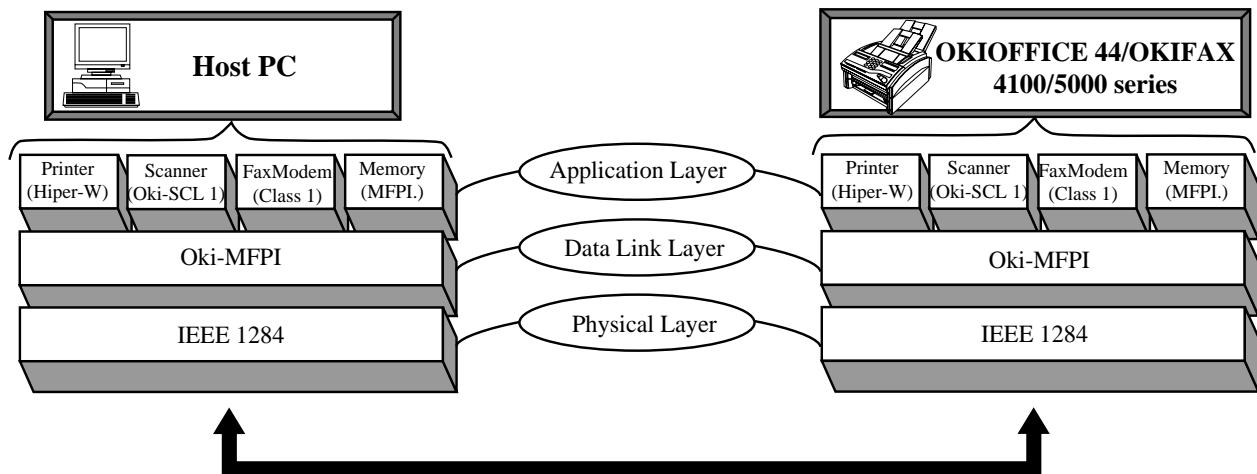
By installing the optional board (Bi-Centro), the following MFP (Multi-Function Peripheral) function can be realized.

Example:

	OKIOFFICE 44	
• PC printer function (300/Q600 dpi)	4 PPM	8PPM (Target)
• PC Scanner function	8 dot/mm	8 dot/mm (INT'L), 300 dpi (ODA)
• PC Fax Modem function (TIA/EIA Class 1)		
• PC Memory function		
• PC Multiplex function	Disable	Enable

Interface between Fax machine and Host PC consists of three layer structure as detailed below, each sub-system can be operated at the same time by adopting a Oki-MFPI protocol in both Fax machine and Host PC.

Note: A simultaneous operation is not supported in OKIOFFICE 44, but the structure is same as other machine (OKIFAX 5000 series).



- Application layer:**
Performs a function control of each sub-system at the Host PC and Fax machine.
- Data-Link layer:**
Performs a protocol control at the Host PC and Oki-MFPI (TIA IS650 Level 1 requirement).
(Packetize/Unpacketize, flow control, Transfers command/data between each sub-system)
- Physical layer:**
Has a bi-directional interface control circuit which conforms to IEEE1284.
Standard mode: Compatible, Nibble
Oki special mode: MCE (Mode Change Express)

Following devices are as sub-system:

- 1) Printer (HIPER-W: Host based Image PrintER for Windows)
Encodes a raster image data in Host PC and transfers a data with HIPER-W emulation.
- 2) Scanner (Oki-SCL 1: Oki-Scanner Control Language 1)
Transfers and image data of document scanned in Fax machine to the Host PC with Oki-SCL 1 command.
- 3) FaxModem (TIA/EIA Class 1)
Send/receive a Class 1 command between Host PC and Fax machine.
- 4) Memory (MFPL: Multi-Function Peripheral Language)
By using MFPL command, it is possible to display on screen of Host PC for condition of Fax machine and performs the initial registration of the telephone number used in Fax machine.

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Appendix B: Print Operation Description

B1.1 Electrophotographic Processor

The electrophotographic processor prints out the image data to be sent from the main control board on sheets of paper. Figure B1-1 shows the layout drawing of the electrophotographic processor.

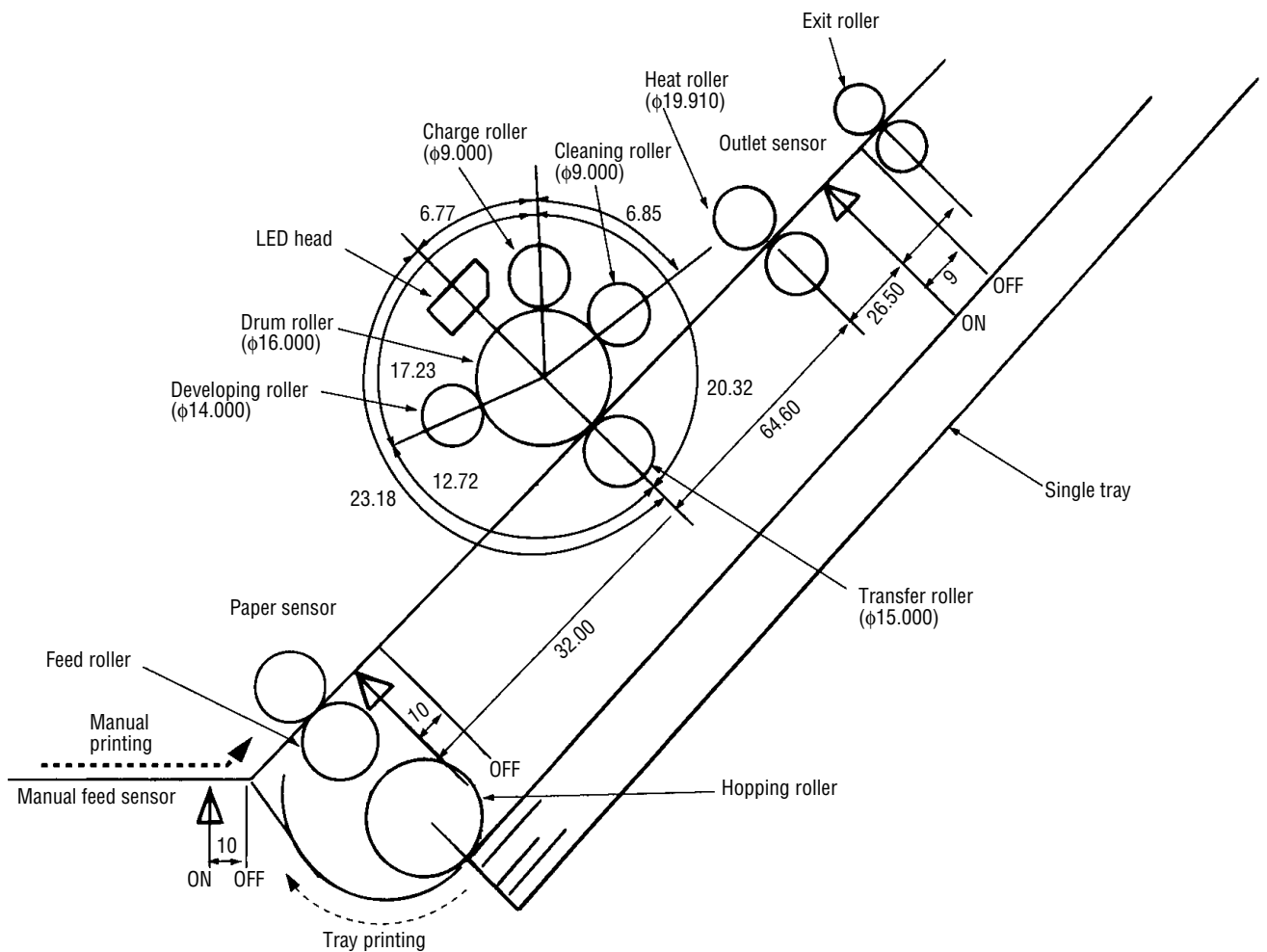
(1) Image drum unit

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.

Layout Drawing of Electrophotographic Processor (Figure B1.1)



(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, registration gear, drum gear, hopping roller is shown in the table below and on the subsequent pages.

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

(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.

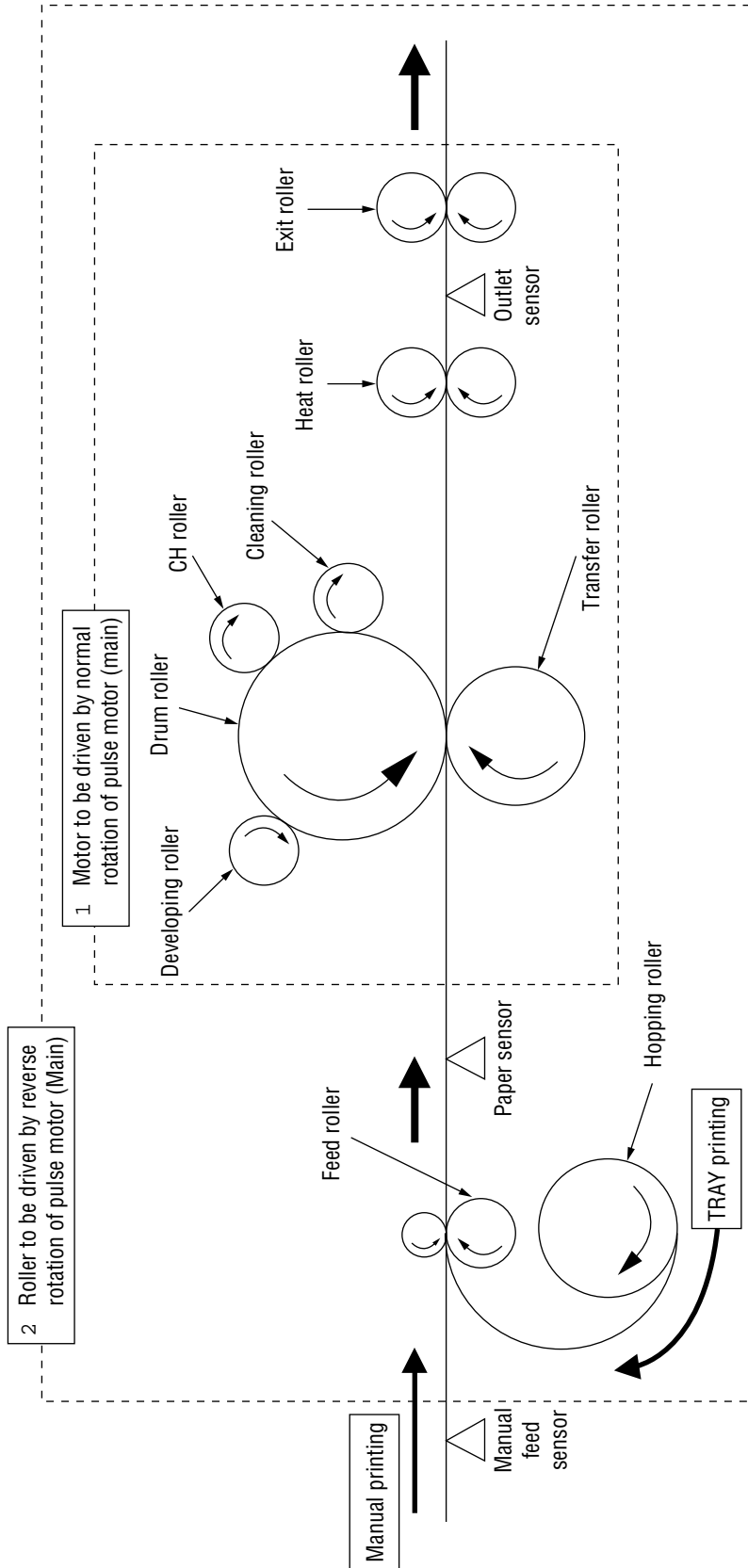
(5) Heat Assembly

The heat assembly 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.

Paper Feeding Diagram (Figure B1.2)



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

2 Reverse rotation of pulse motor (main):

B1.2 Electrophotographic Process

(1) Electrophotographic process

The electrophotographic process is outlined below.

1 Charging

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

2 Exposure

Light emitted from the LED head irradiates the negatively charged surface of the image 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 Image drum, adhering to the electrostatic latent image on the image 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 image 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

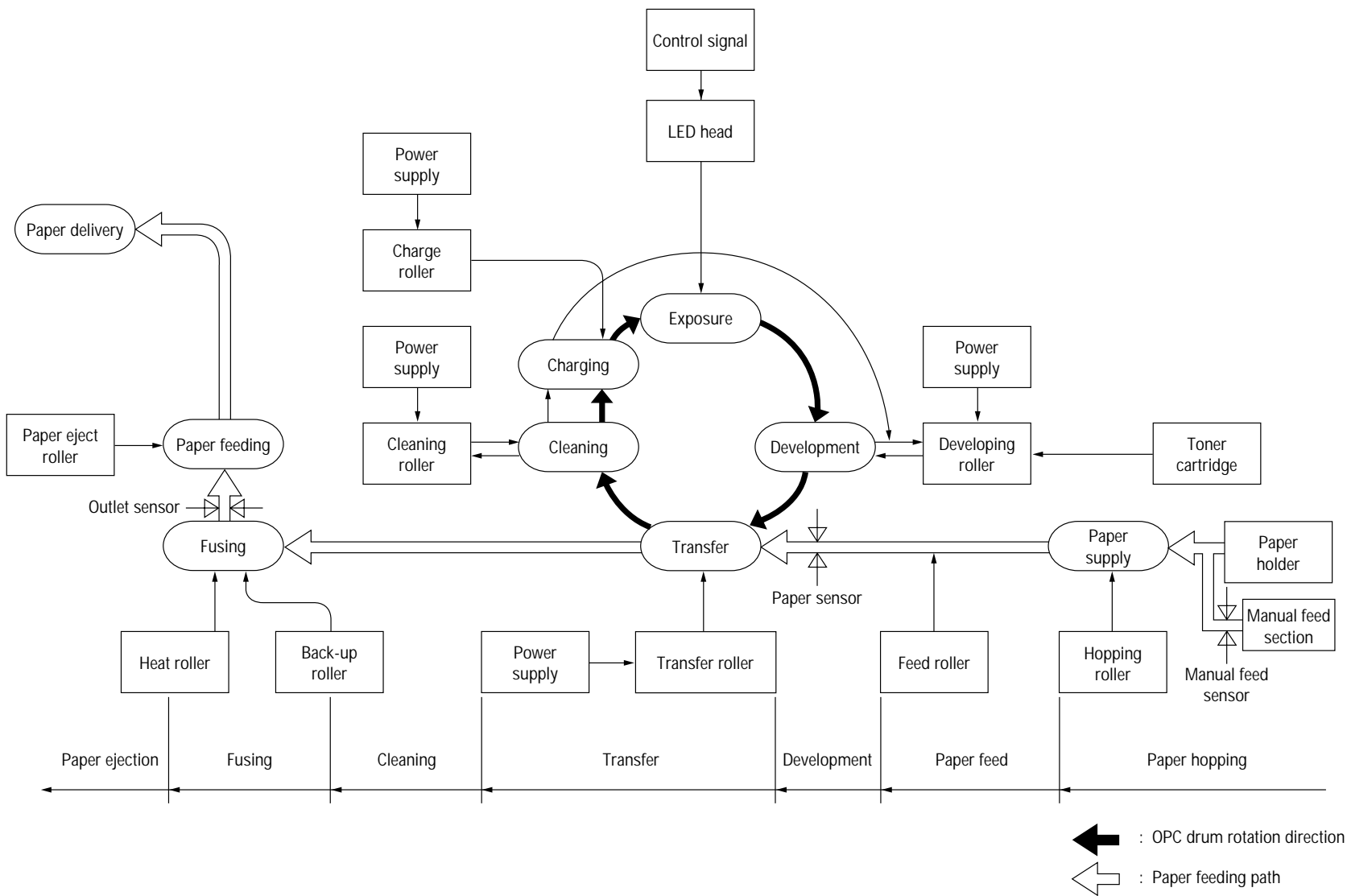
The cleaning roller temporarily attracts the residual toner on the transferred image drum with static electricity, then returns the toner to the image drum.

6 Fusing

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

Figure B1.3 is a flow for the electrophotographic process.

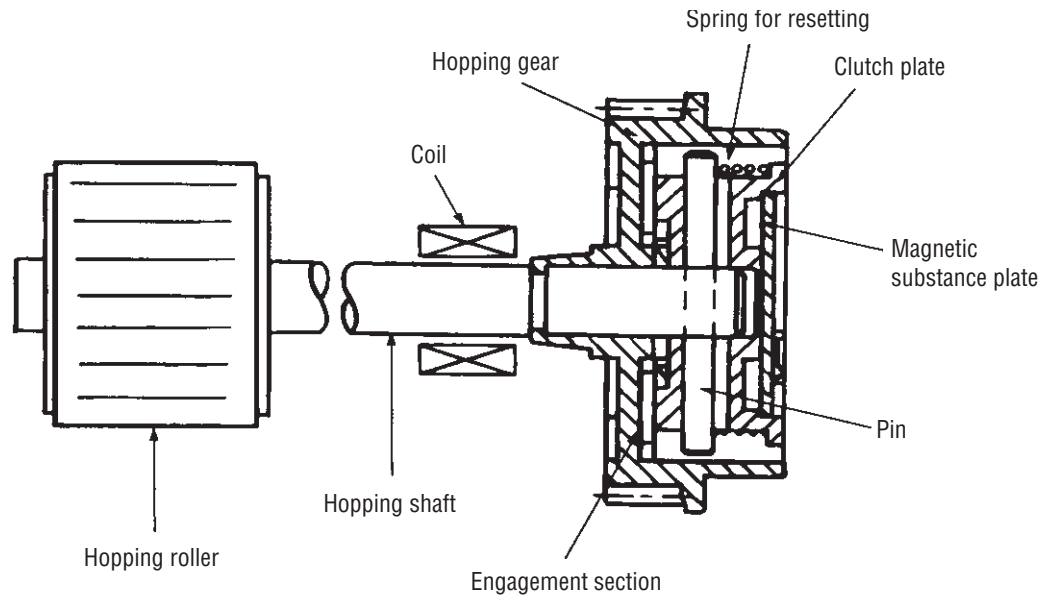
Electrophotographic Process Diagram (Figure B1.3)



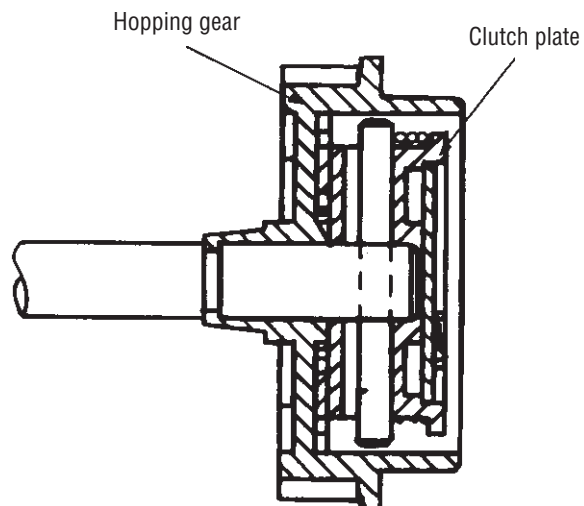
B1.2.1 Operations Process Explanations

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

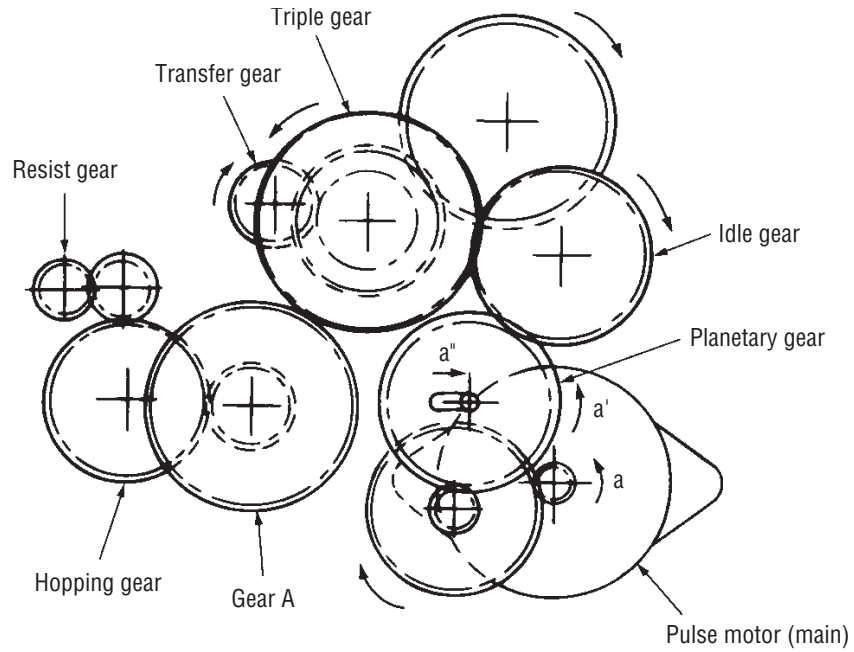


When the clutch is on, the hopping gear engages with the clutch plate to rotate the hopping roller.

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.

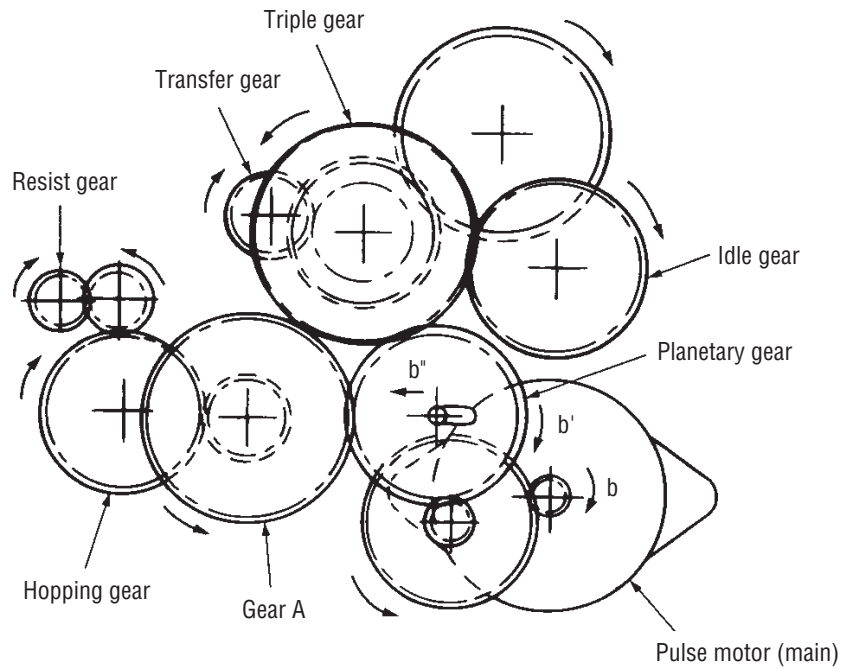
Printing and Warm-up

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 image drum unit.

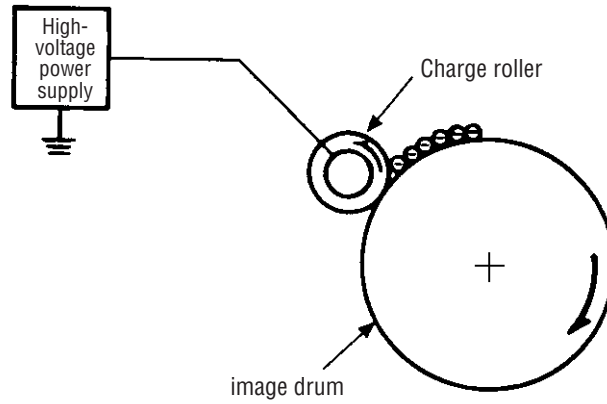
At printing



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

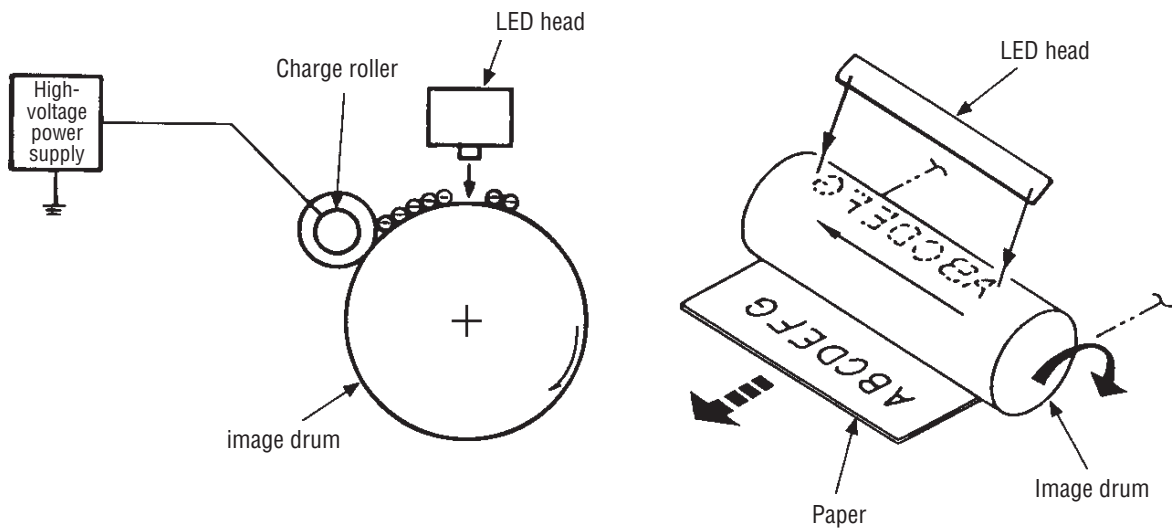
Charging

Charging is performed by applying DC voltage to the charge roller that is in contact with the surface of the image drum.



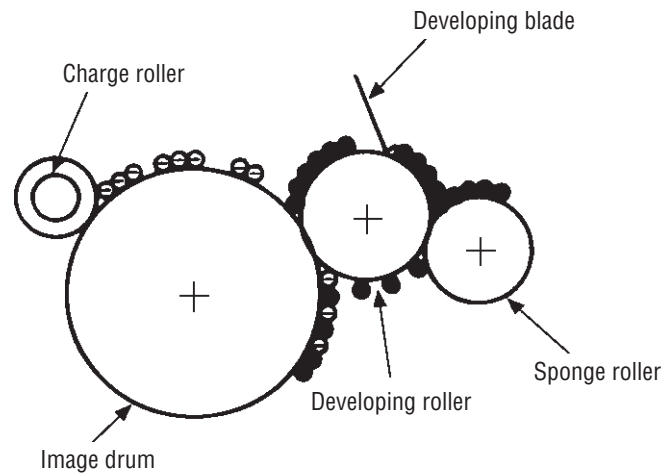
Exposure

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



Development

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



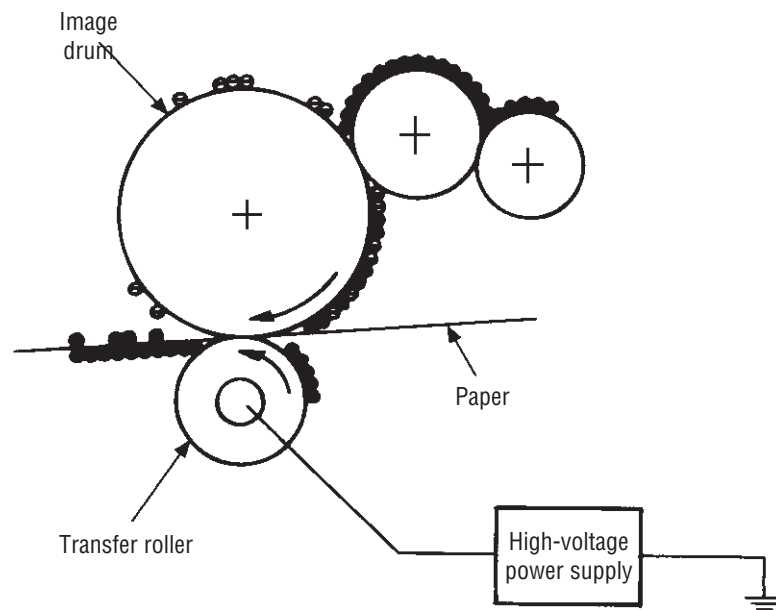
- 1 The sponge roller negatively charges a toner and applies it to the developing roller.
- 2 The toner applied to the developing roller is thin-coated by the developing blade.
- 3 A toner adheres to the exposure part of the image drum in the contact part between the image drum and developing roller.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

Transfer

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

A sheet of paper is placed on the surface of the image 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 negative 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 image drum to move to the upper side of the sheet. This enables transfer to the sheet of paper.

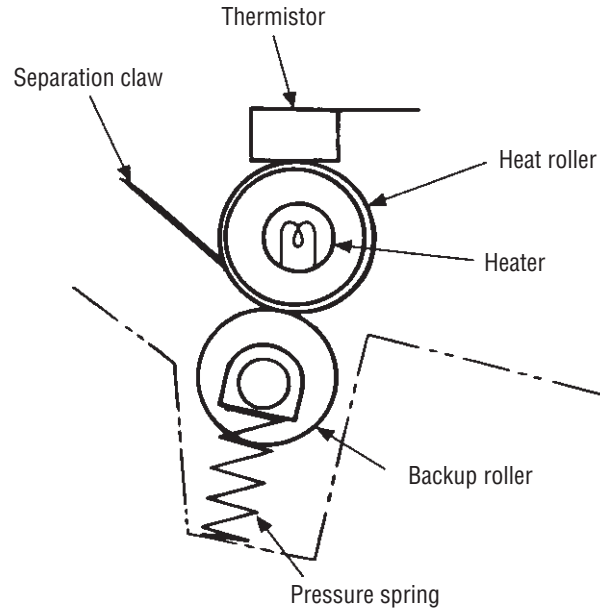


Fusing

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 backup roller.

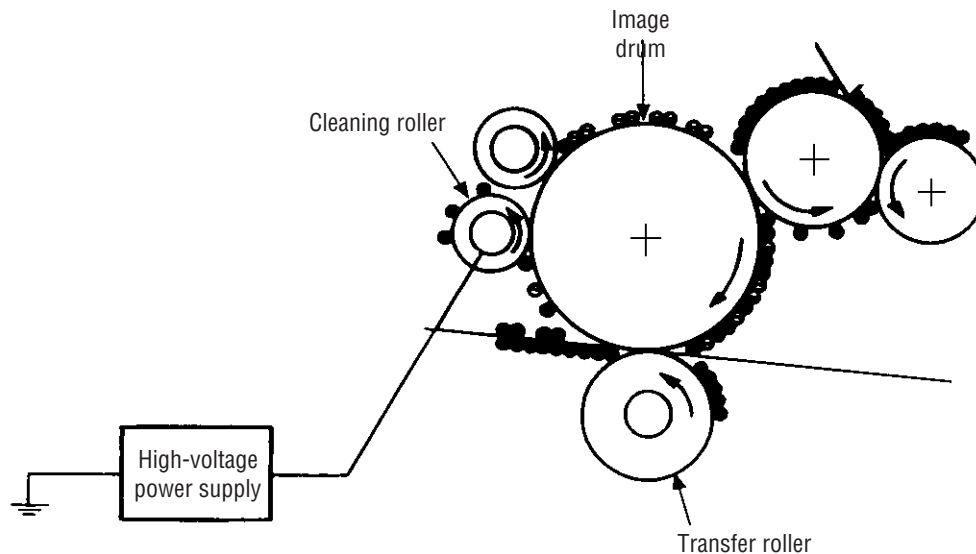
The Teflon-coated heat roller contains a 400 W heater (Halogen lamp) that heats the heat roller. The thermistor on the surface of the heat roller keeps the temperature of the heat roller constant. A thermostat is also installed for safety. If temperature rises abnormally, this thermostat opens to suspend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

The backup roller is pressurized to the heat roller by the pressure spring on each side.



Cleaning

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



B1.3 Paper Jam Detection

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

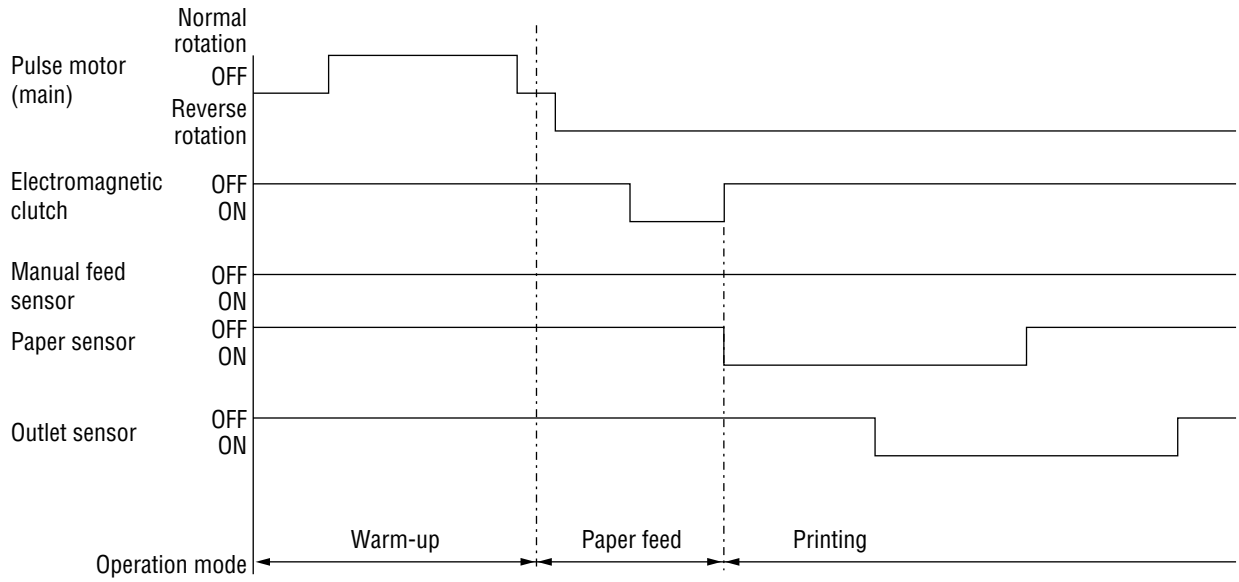
Error	Cause of Error
Paper inlet jam	<ul style="list-style-type: none"> Only the manual feed sensor detects "Paper exists" when the power supply is on. The leading part of the paper does not reach the paper sensor although hopping operation was performed three time.
Paper feed jam	<ul style="list-style-type: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

Paper Feed Check List

Type of Error	Supervisory Sensor	Reference Value	Error	
			Plus	Minus
Paper feed error	Electromagnetic clutch ON/ Paper sensor ON	69.8	35	—
Paper feed jam 1	Paper sensor ON/ Outlet sensor ON	122.9	20.0	—
Paper size error	Paper sensor ON/ Paper sensor OFF	2.52" (64 mm) ≤ L ≤ 15.77" (400.56 mm)	—	—
Paper outlet jam	Outlet sensor ON/ Outlet sensor OFF	2.52" (64 mm) ≤ L ≤ 15.77" (400.56 mm)	45.0	45.0
Paper feed jam 2	Paper end sensor OFF/ Outlet sensor OFF	121.9	20.0	20.0

Unit: mm

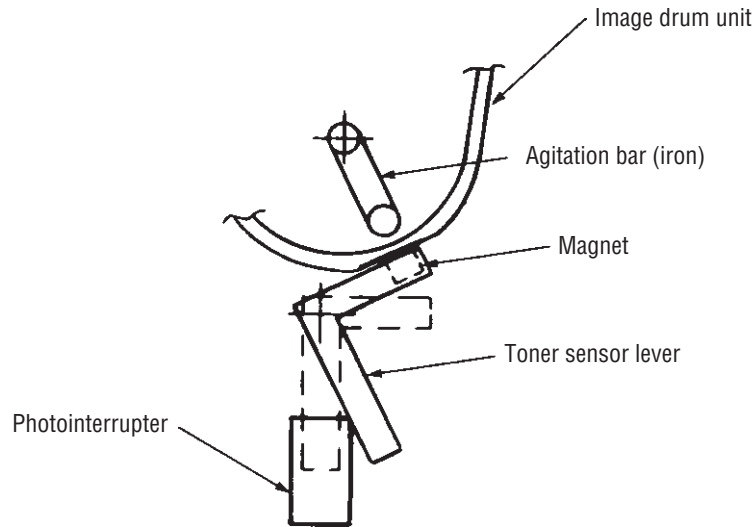
Timing Chart for Paper Feed (Tray Feed)



B1.4 Toner Low Detection

- Hardware configuration of toner sensor

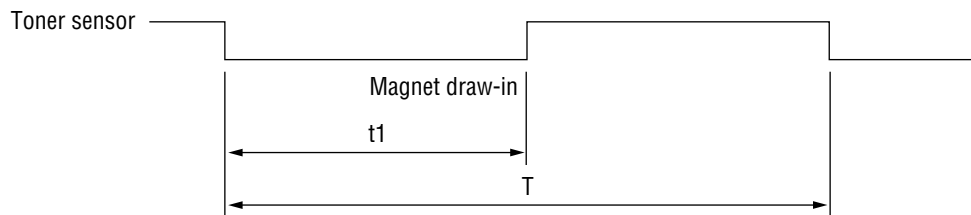
The figure below shows the hardware configuration of the toner sensor.



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.

- When the toner-low state continues twice, Toner Low occurs. (This state is monitored at a cycle of 40 milliseconds.)
- When the toner-full state continues twice, Toner Low is released. (This state is monitored at a cycle of 40 milliseconds.)
- When the toner sensor does not change over two cycles ($T \times 2$), the toner sensor alarm state occurs.
- After the image drum 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	$1.2 \text{ sec.} > t1 >$

B1.5 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.

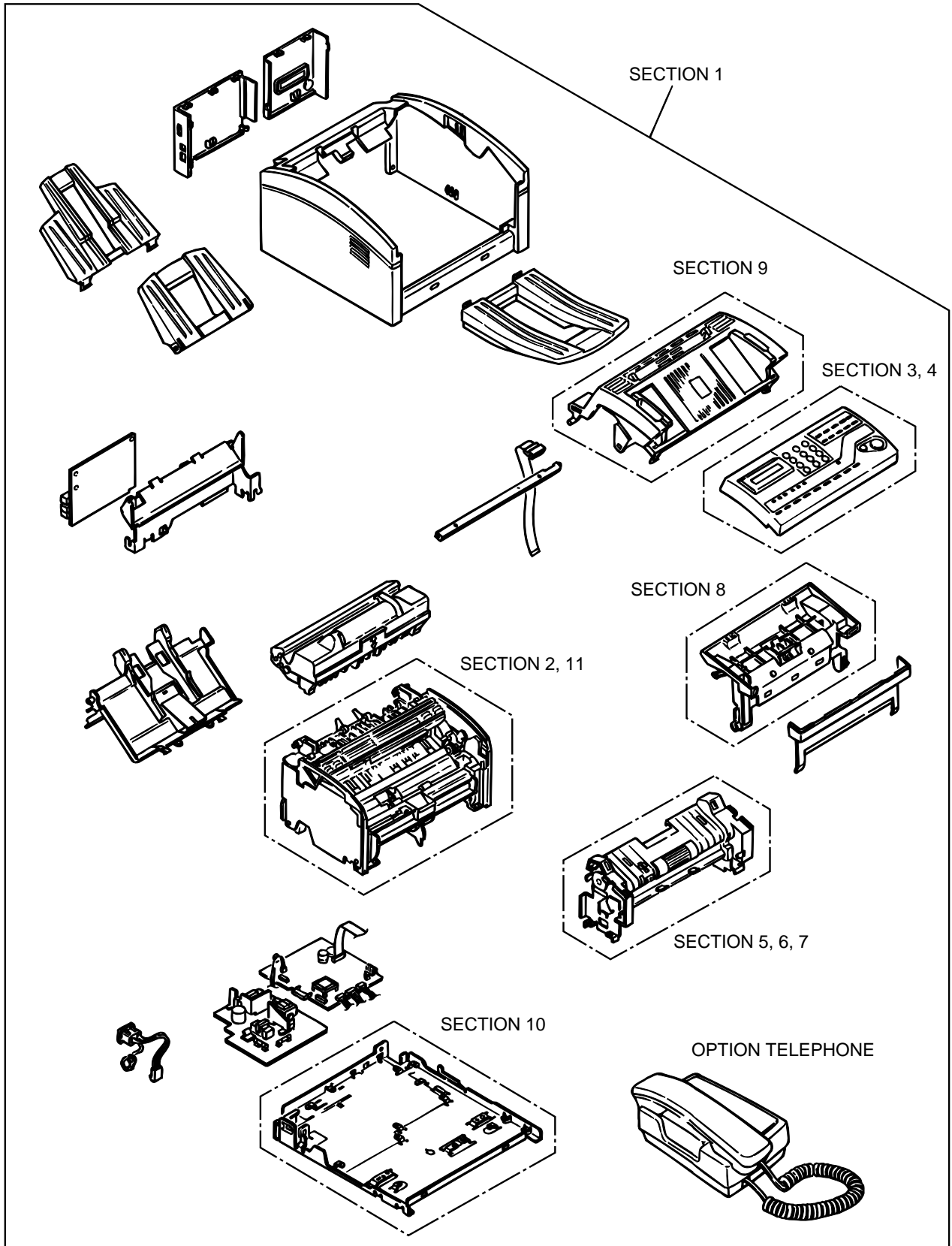
Appendix C: Circuit Diagrams

C.1 General Information

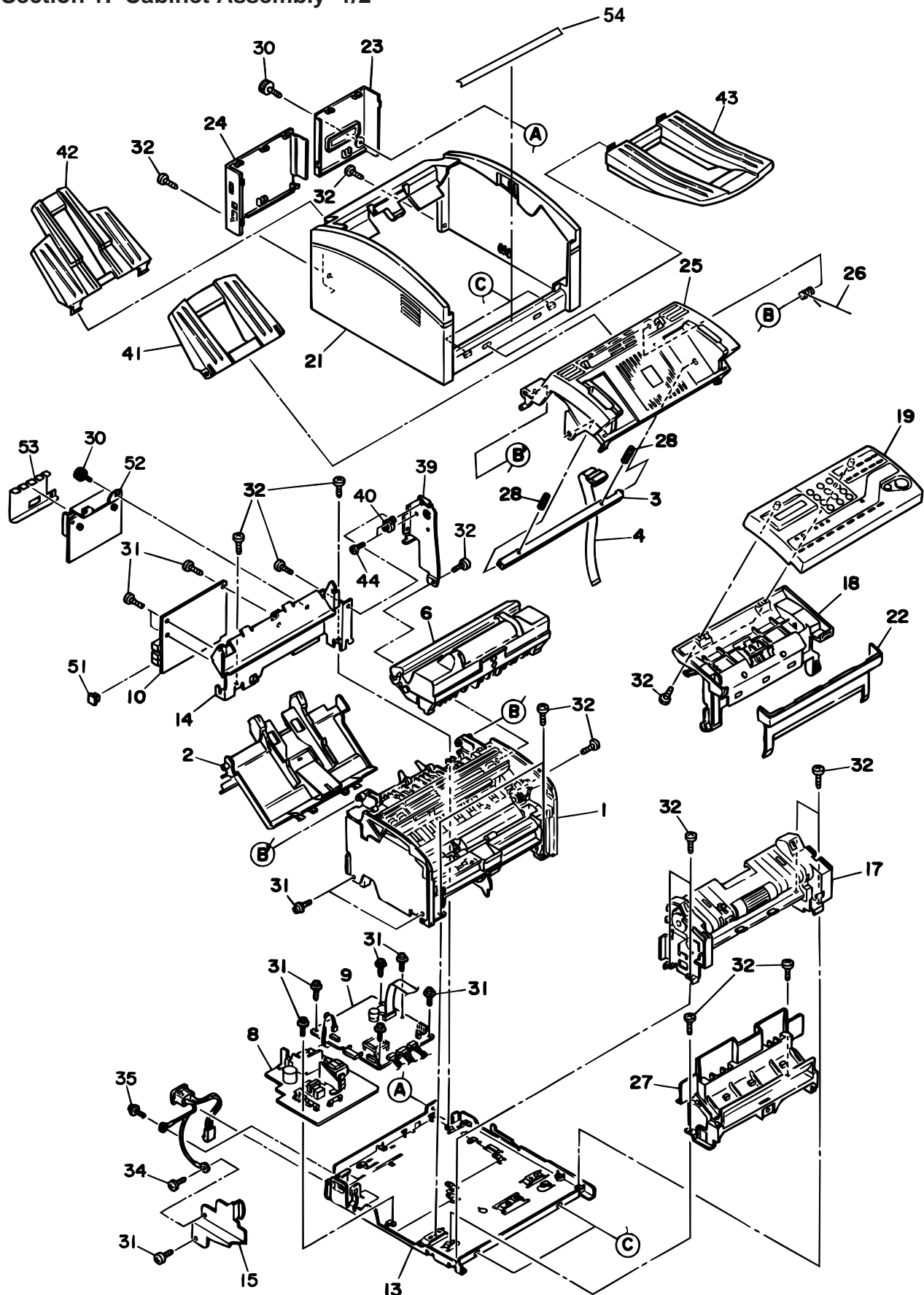
The OKIOFFICE 44 Circuit Diagrams contain component level repair information and are OKIDATA proprietary.

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APPENDIX D: ILLUSTRATED PARTS LIST



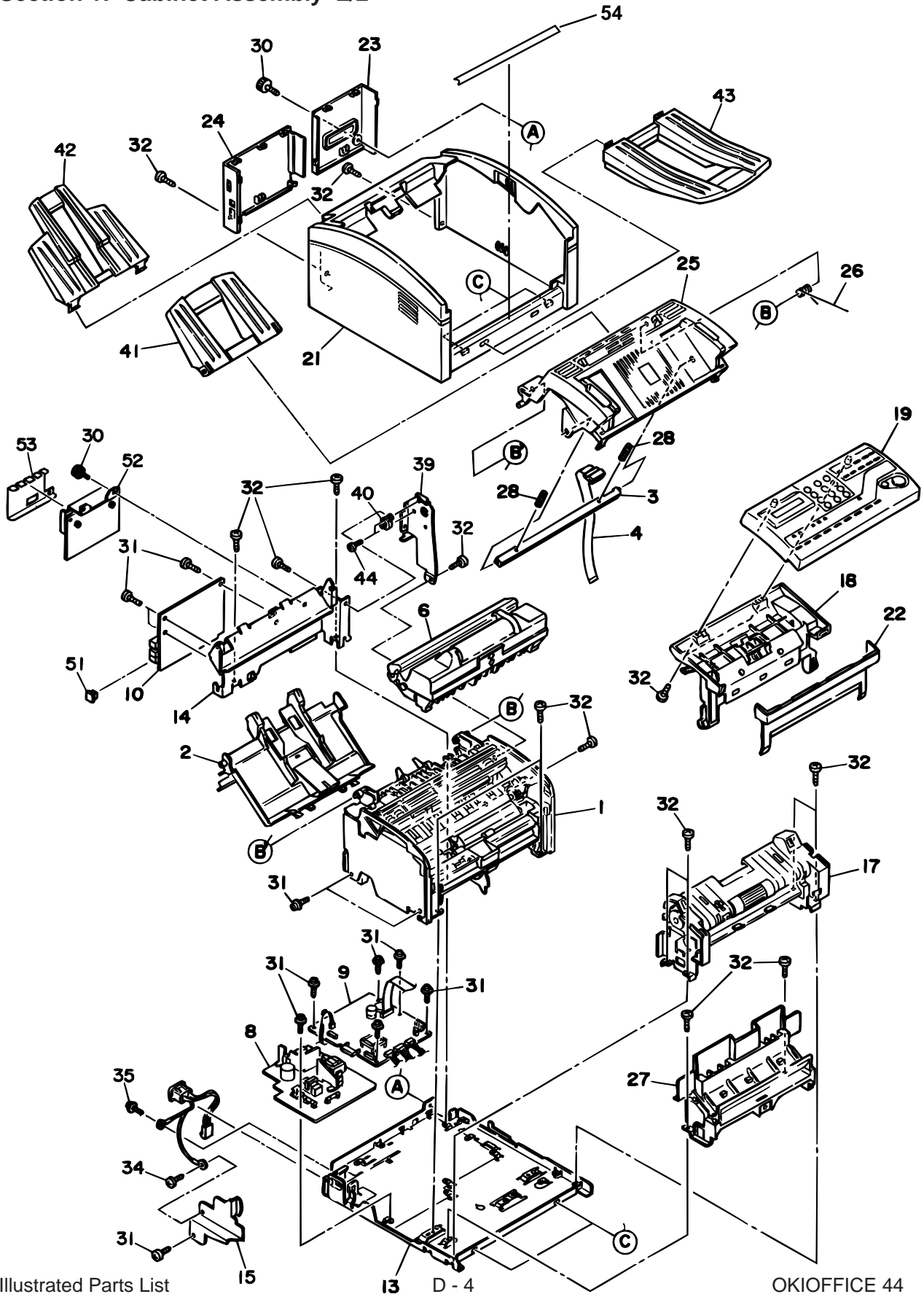
Section 1: Cabinet Assembly 1/2



Section 1 Table: Cabinet Assembly 1/2

Rev.	No.	Oki parts Number	Description	Q'ty	OKIDATA P/N
	1		Unit-Printer (100V)		Refer to Section 11
	2		HOLDER-ASSY		Refer to Section 11
	3	4YA4116-1228G001	LED HEAD	1	56112101 RSPL
	4	4YX4083-1134G001	CABLE FLAT ASSY.	1	56633401 RSPL
	6		Image Drum Unit	1	56116101 Consumable
	8a	4YB4049-1874P001	PWR Unit-ACDC Switch (120V)	1	
	8b	4YB4049-1875P001	PWR Unit-ACDC Switch (230V)	1	
	9	40092201	Board-R44	1	40092201 RSPL
	10a	40044501	Board-UNC	1	40044501 RSPL US
	10b	40044307	Board-WN5	1	44044307 RSPL OKI-INT
	13	40023701	Plate Assy.-Base	1	40023701 RSPL
	14	40023901	Bracket-Package	1	40023901 RSPL
	15	40236401	Plate Assy. - Shield (HV)	1	
	17	40019201	Frame Assy.-Scanner L	1	40019201 RSPL
	18	40021001	Frame Assy.-Scanner (U)	1	40021001 RSPL
	19	40022701	OPE Panel Assembly	1	40022701 RSPL US
	21	40025401	Cover-Main	1	40025401 RSPL
	22	40025301	Cover-Front	1	40025301 RSPL
	23	40025501	Cover-Rear	1	40025501 RSPL
	24	40025601	Cover-NCU	1	40025601 RSPL
	25	40022101	Cover Assy.-Top	1	40022101 RSPL
	26	40026101	Spring-TC	1	40026101 RSPL

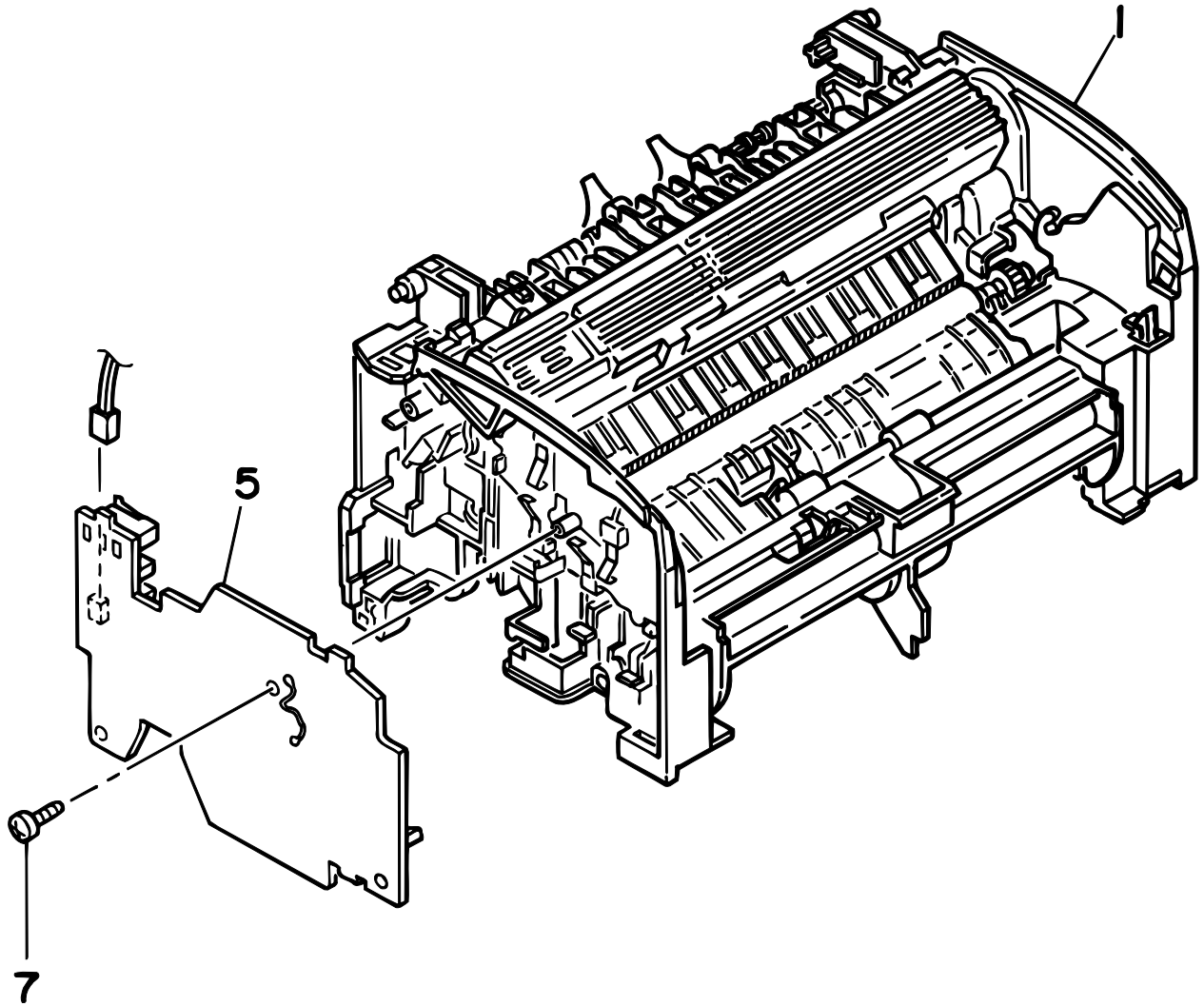
Section 1: Cabinet Assembly 2/2



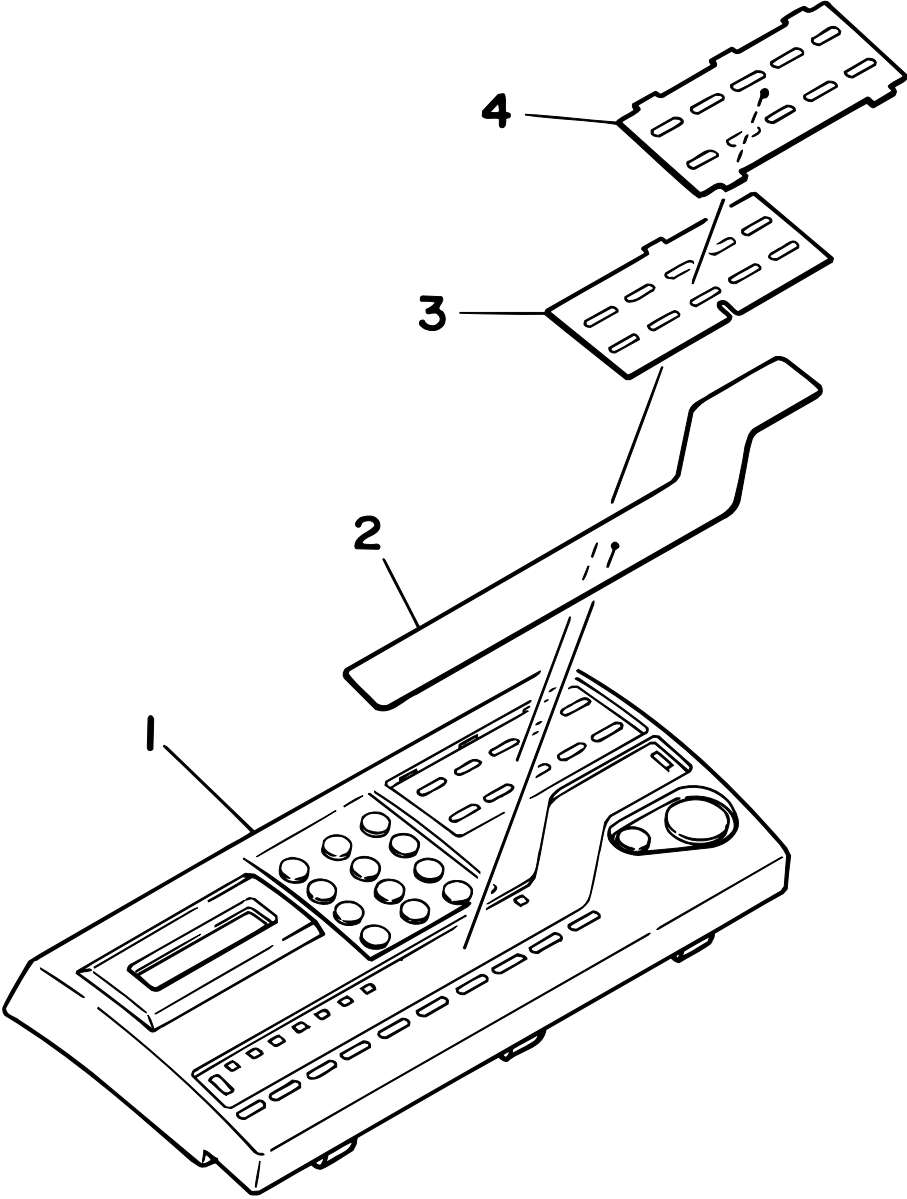
Section 1 Table: Cabinet Assembly 2/2

Rev.	No.	Oki parts Number	Description	Q'ty	OKIDATA P/N
	27	40024001	Guide-Paper (U)	1	40024001 RSPL
	28	4PP4083-6168P001	Spring: Head	2	50928701 RSPL
	29	40024101	Guide-Paper (L)	1	40024101 RSPL
	30	4PB4120-1136P001	Screw: Knob	1	50317601 RSPL
	31		B Tapping Screw		N/A
	32		B Tapping Screw FA		N/A
	33		B Screw B		N/A
	34		Screw		N/A
	35		Screw	1	N/A
	39	40140801	Bracket-Damper	1	40140801 RSPL
	40	40148201	Gear-Damper	1	40148201 RSPL
	41	40025701	Tray-Document	1	40025701 RSPL
	42	40025801	Tray-Paper	1	40025801 RSPL
	43	40375801	Stacker Assy.-Document	1	40375801 RSPL
	44		Screw-Tapping (S-M2)		N/A
	51	223A7010P0003	TM-6-DC1 Connector-Plug	1	N/A
	52	40123402	Dust Cover Plate Assy.-PC I/F	1	N/A
	53	4PP4120-1187P001	Plate-Earth (PCFX)	1	
	54	40332701	Label-Manual Slot		N/A

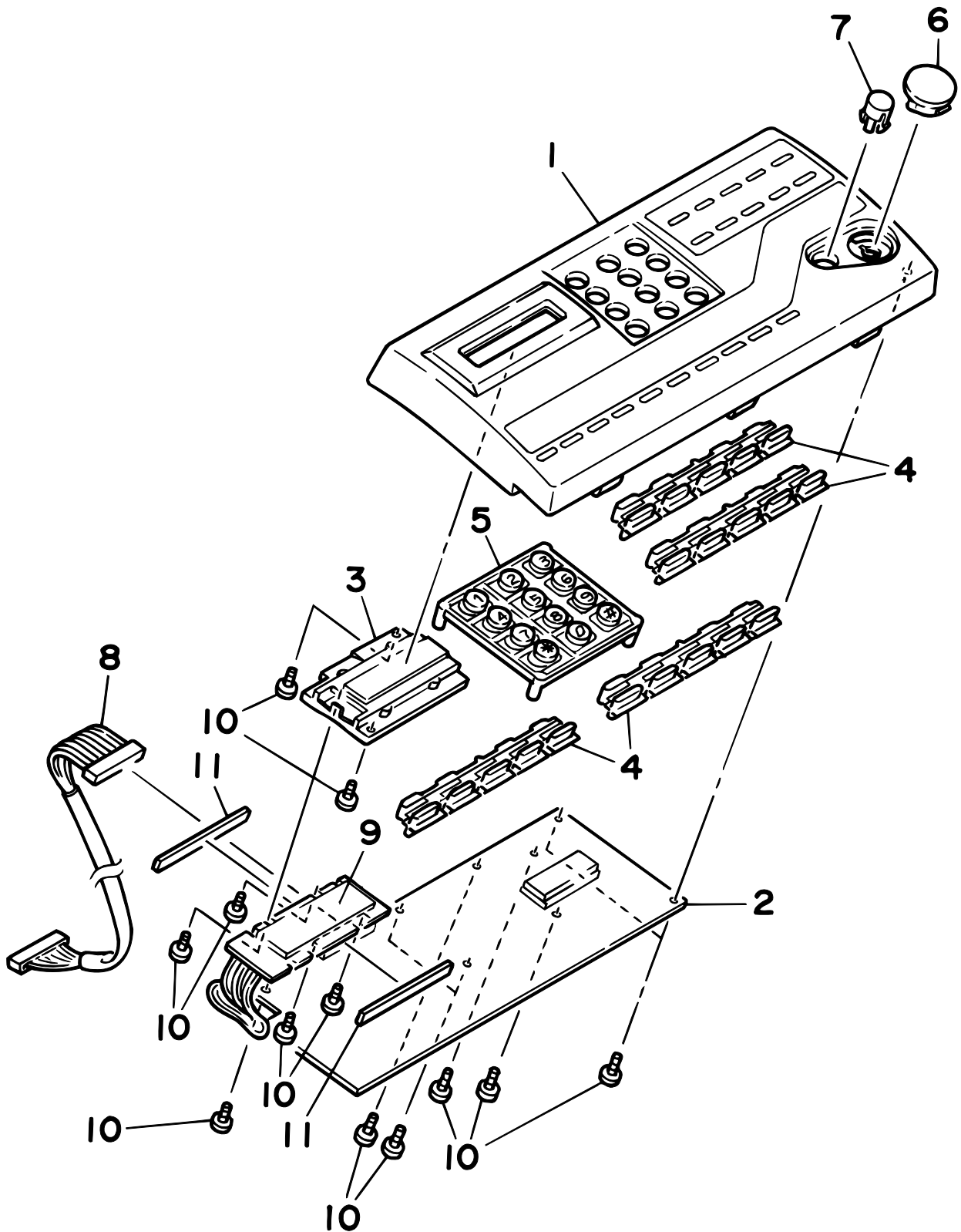
Section 2: Printer Unit



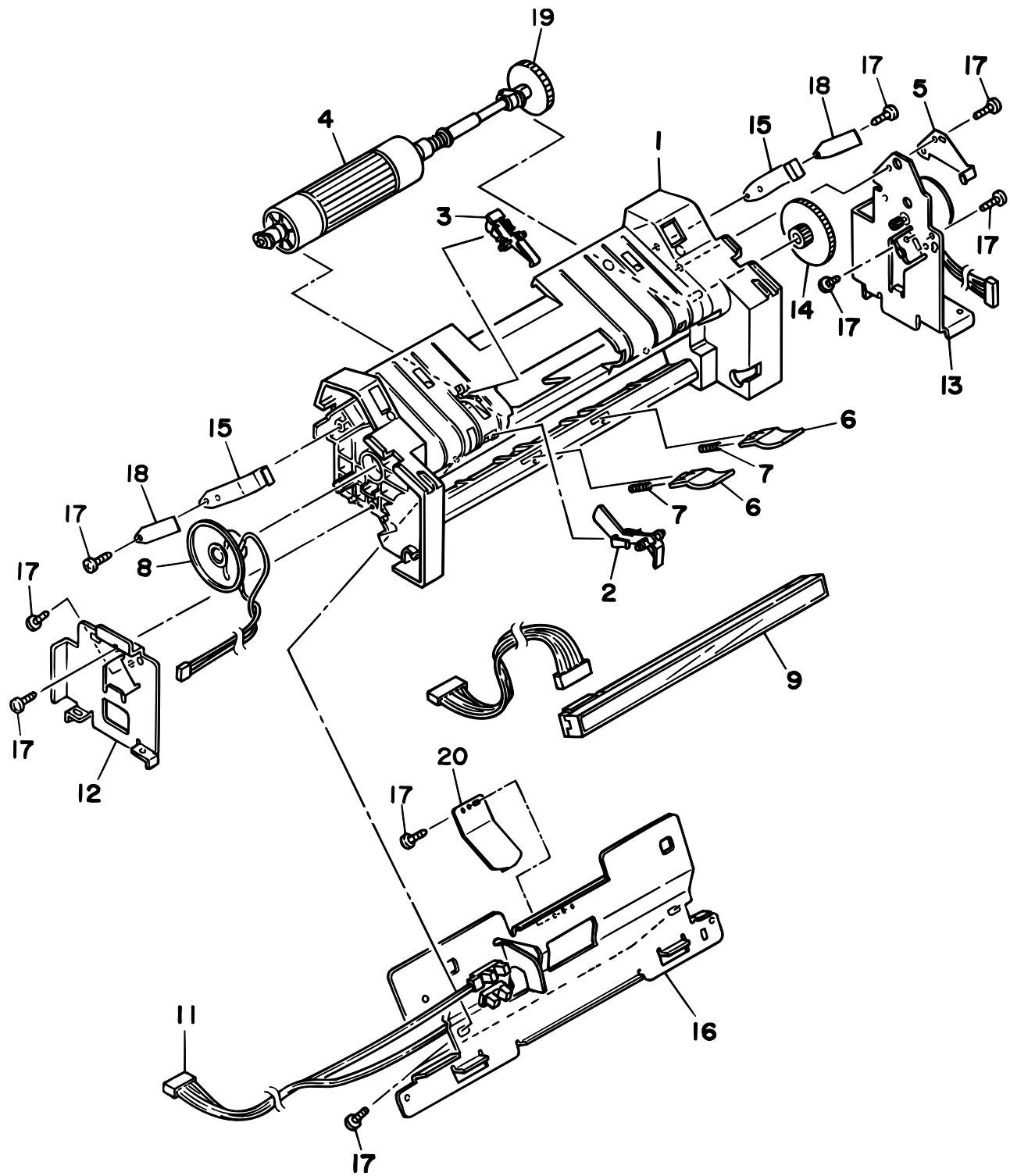
Section 3: Operator Panel



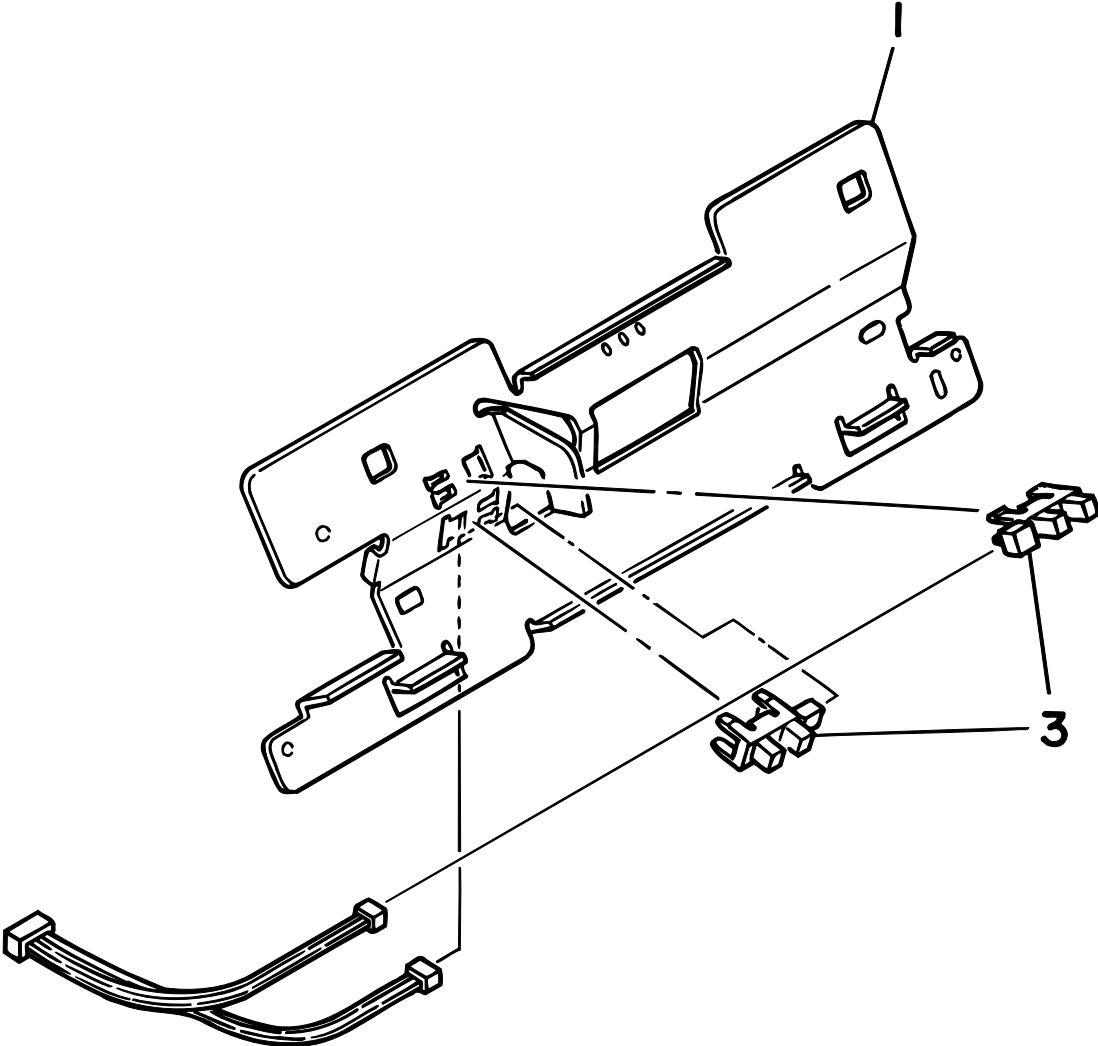
Section 4: Operator Panel Assembly



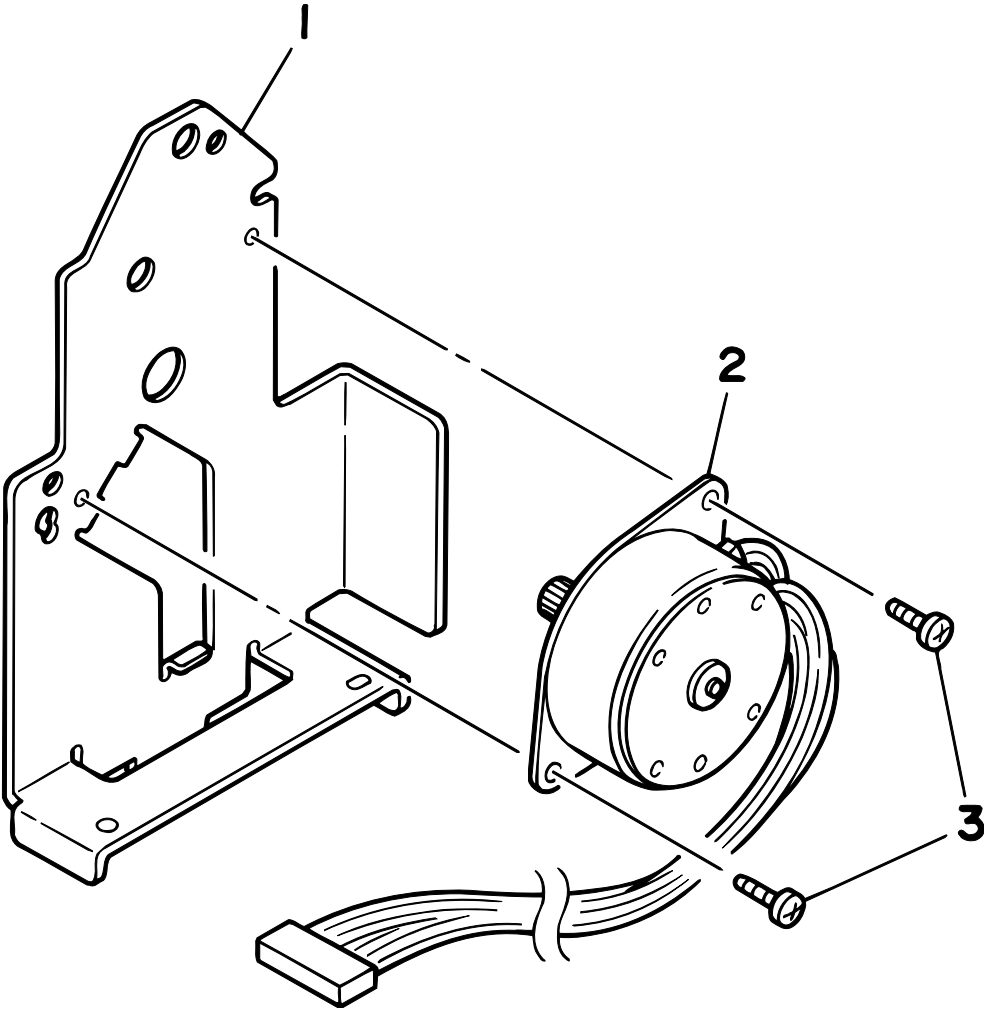
Section 5: Frame Assembly Scanner (L)



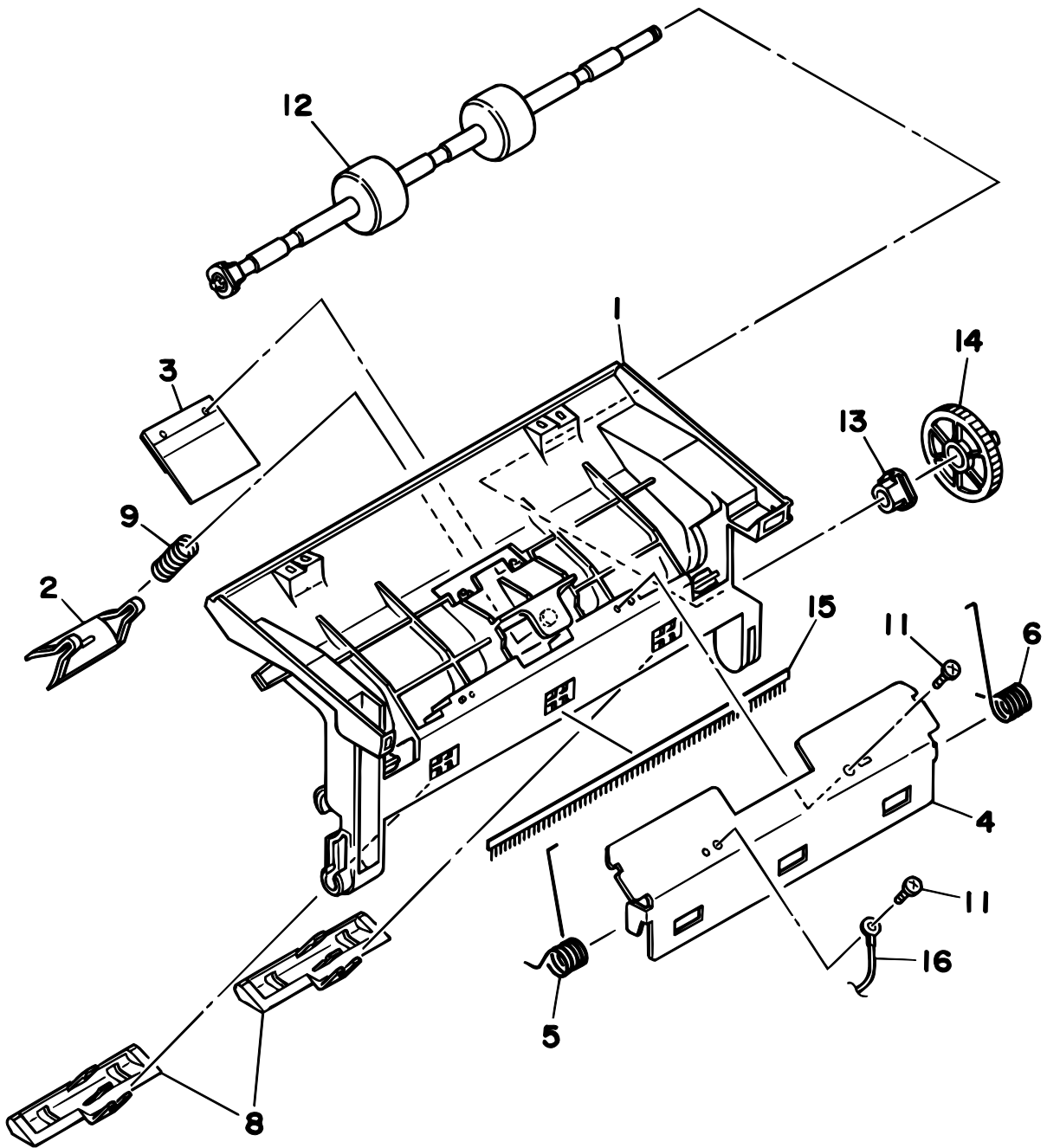
Section 6: Plate Assembly-Scanner (B)



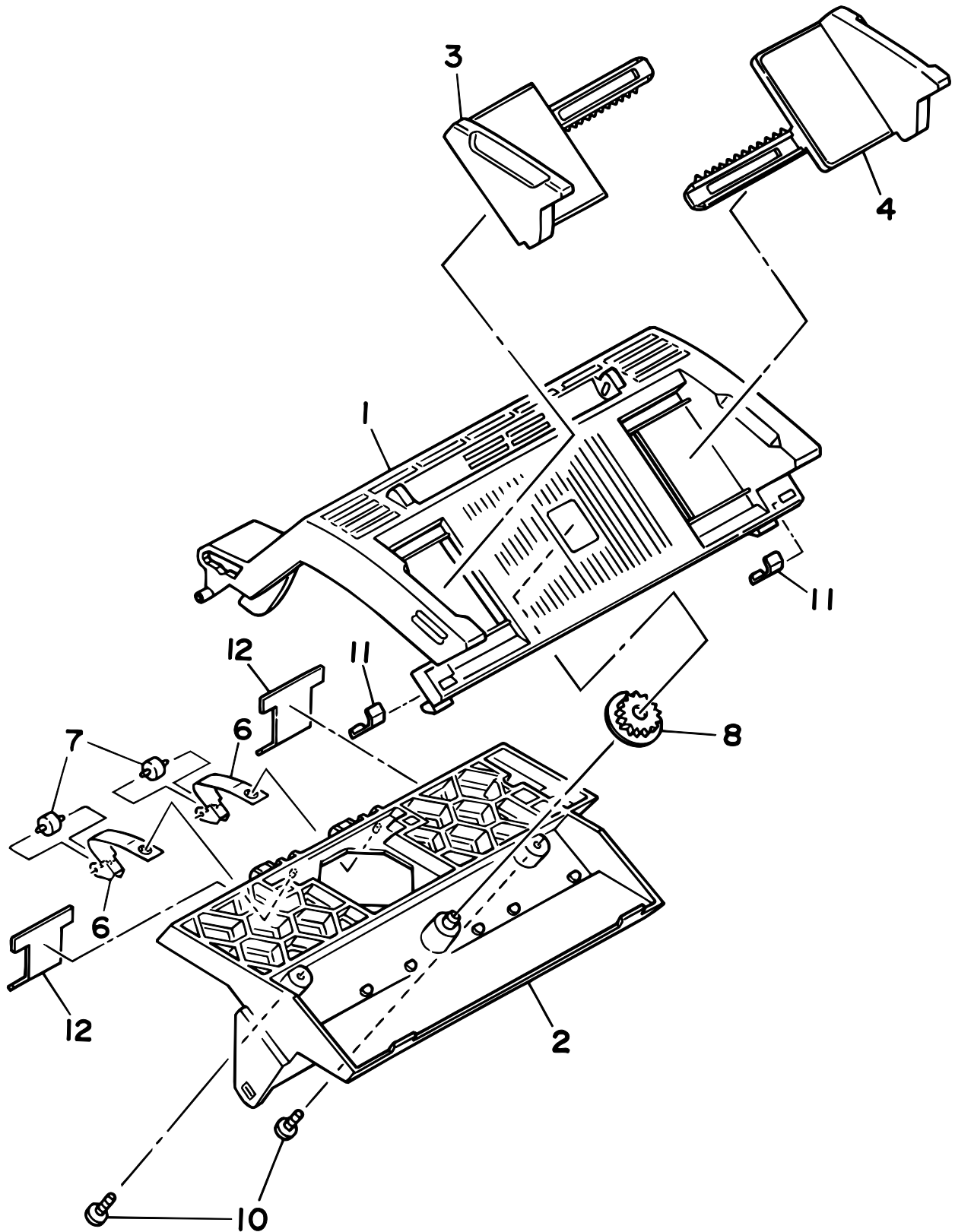
Section 7: Plate Assembly-Scanner (R)



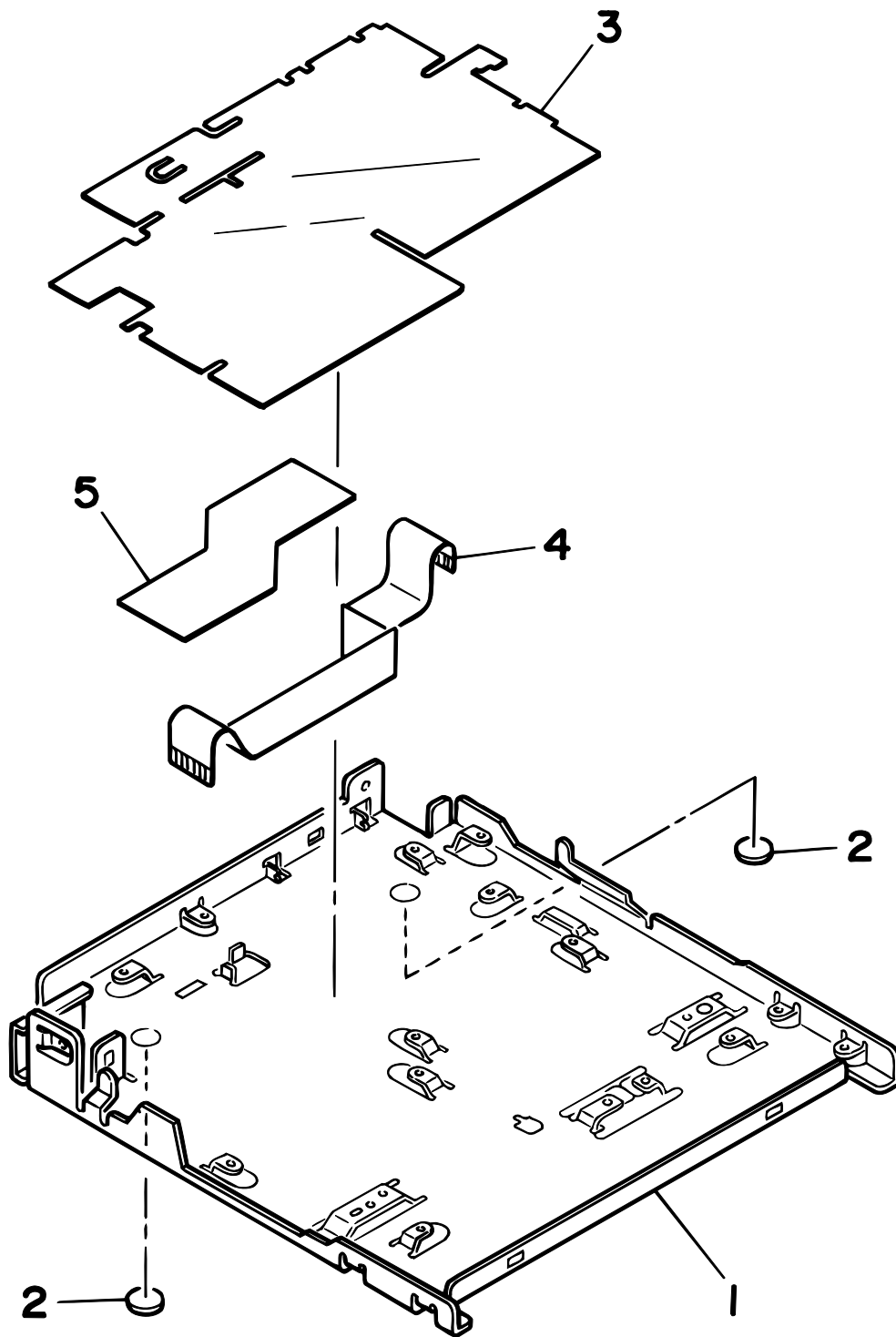
Section 8: Frame Assembly-Scanner (U)



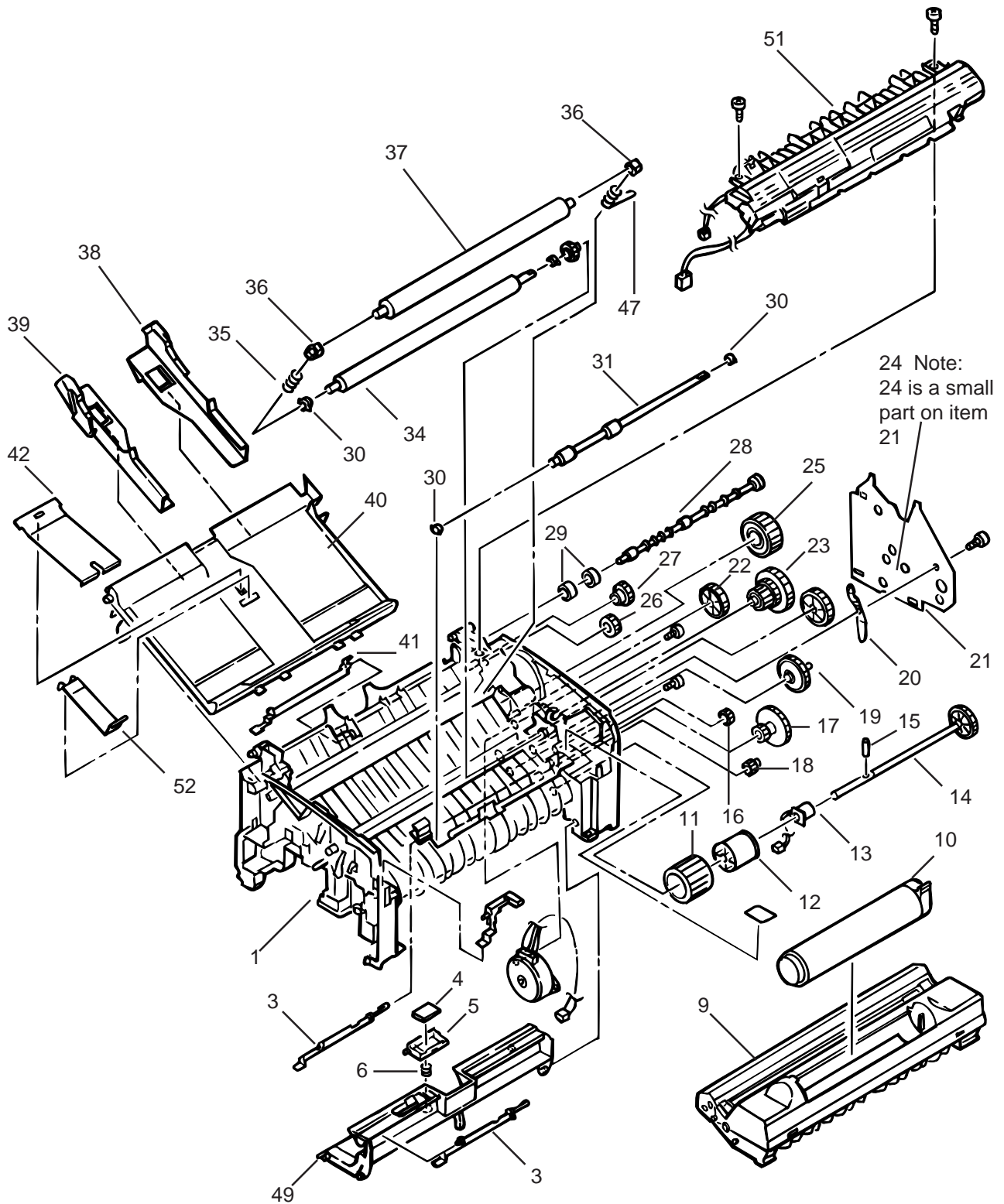
Section 9: Cover Assembly-Top



Section 10: Plate Assembly-Base



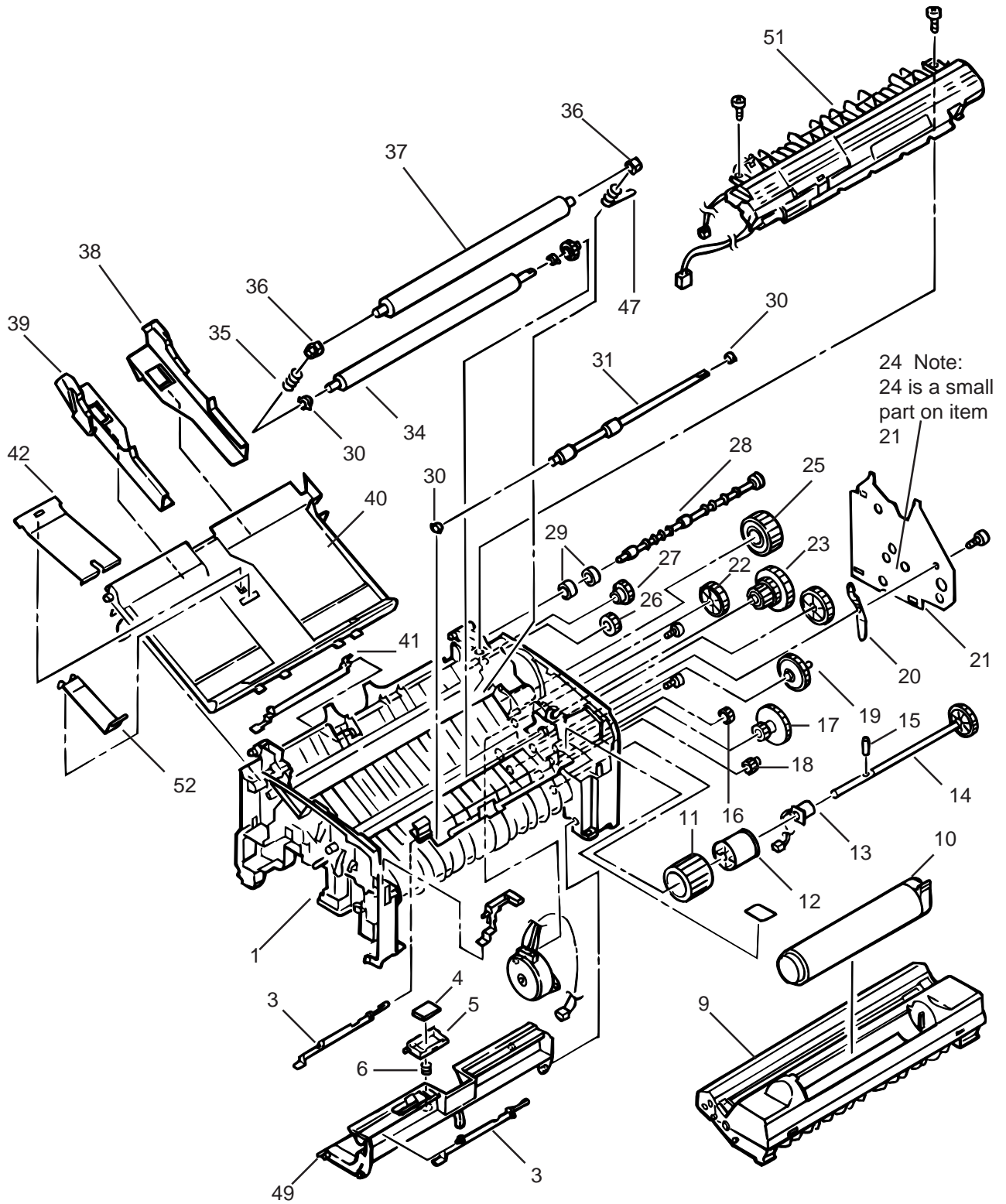
Section 11: Printer Base Frame Unit (1 of 2)



Section 11 Table: Printer Base Frame Unit (1 of 2)

Rev.	No.	Oki parts Number	Description	Q'ty	OKIDATA P/N
	1	2PA4083-1132G1	Frame: Base Assy.	1	50221701 RSPL
	3	3PP4083-1191P1	Sensor: Paper E	2	50410601 RSPL
	4	4PB4083-1245P1	Pad: Friction	1	51711701 RSPL
	5	3PP4083-1244P1	Guide: Separator	1	51021701 RSPL
	6	4PP4083-1246P1	Spring: Compression S	1	50931001 RSPL
	7	3PA4083-1193G1	Sensor: Toner Assy.	1	50410801 RSPL
	8	4PB4083-1172P1	Motor: Pulse (Main)	1	56513501 RSPL
	9	4YA4083-1600G2	Drum: Image	1	56116101 Consumable
	10	40035001	Cartridge: Toner	1	52106201 Consumable
	11	4PB4083-1129P1	Roller: Hopping	1	53348201 RSPL
	12	3PP4083-1128P1	Holder: Roller (Hopping Roller)	1	50708801 RSPL
	13	3PB4083-1127P1	Magnet H (Hopping Shaft)	1	50809001 RSPL
	14	3PA4083-1133G1	Shaft: Hopping Assy.	1	51113901 RSPL
	15	NK2-10-SUS	Pin: Knock	1	50607901 RSPL
	16	4PP4083-1143P1	Gear: Idle R	1	51237501 RSPL
	17	3PP4083-1184P1	Gear: Idle 2R	1	51238001 RSPL
	18	3PP4083-1142P1	Gear: R	1	51237401 RSPL
	19	2PP4083-1181P1	Gear: Idle M	1	51237701 RSPL
	20	3PP4083-1189P1	Plate: Earth A	1	51021501 RSPL
	21	3PP4083-1188P1	Plate: Slide M	1	51021401 RSPL
	22	3PP4083-1182P1	Gear: Idle P	2	51237801 RSPL
	23	3PP4083-1183P1	Gear: Idle 3R	1	51237901 RSPL
	24	4PP4083-1165P1	Plate: Tension	1	51022601 RSPL
	25	3PP4083-1185P1	Gear: Idle Heat	1	51238101 RSPL
	26	4PP4083-1186P1	Gear: Idle E (A)	1	51238201 RSPL
	27	3PP4083-1187P1	Gear: Idle E (B)	1	51238301 RSPL
	28	3PP4083-1170P1	Shaft: Drive E (Eject)	1	51113801 RSPL
	29	4PB4083-1171P1	Roller: Eject	2	53348601 RSPL
	30	3PP4083-1141P1	Bearing: Resistration	4	51609101 RSPL

Section 11: Printer Base Frame Unit (2 of 2)



Section 13: Miscellaneous Items

Whole Unit

OKIOFFICE 44 120 V (English)	P/N 62209101
OKIOFFICE 44 120 V (English / Spanish)	P/N 62209103
OKIOFFICE 44 120 V (English / Portuguese)	P/N 62209106
OKIOFFICE 44 120 V (English / French)	P/N 62209104
OKIOFFICE 44 220 V (English / Spanish)	P/N 62209102
OKIOFFICE 44 220 V (English / Portuguese)	P/N 62209105

Consumables

Drum: Image	P/N 56116101
Cartridge: Toner	P/N 52106201

Options

Handset: Option (OKIOFFICE 44)	P/N 70031801
1 MB Fax Memory Upgrade Option (OO44)	P/N 7032201

Packaging

Box: Spares Kraft (OKIOFFICE 44)	P/N 53552209
Cap: End - Left (OKIOFFICE 44)	P/N 53591101
Cap: End - Right (OKIOFFICE 44)	P/N 53591102

User's Manuals

Quick Start Guide (English Only)	P/N 59275501
Handbook: Hardware	P/N 59275301
Guide: Software	P/N 59275401
Manual: OCR	P/N 59278201

Service (Technical) Manuals

Kit: OKIOFFICE 44 Service Training	P/N 58220401
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Includes the items listed below:

Sheet: ID	P/N 58323201
Sheet: Read Me First	P/N 58323301
Manual: Certification	P/N 59276701
Manual: Service	P/N 59276801

Quick Start Guide (English Only)	P/N 59275501
Handbook: Hardware	P/N 59275301
Guide: Software	P/N 59275401
Manual: OCR	P/N 59278201

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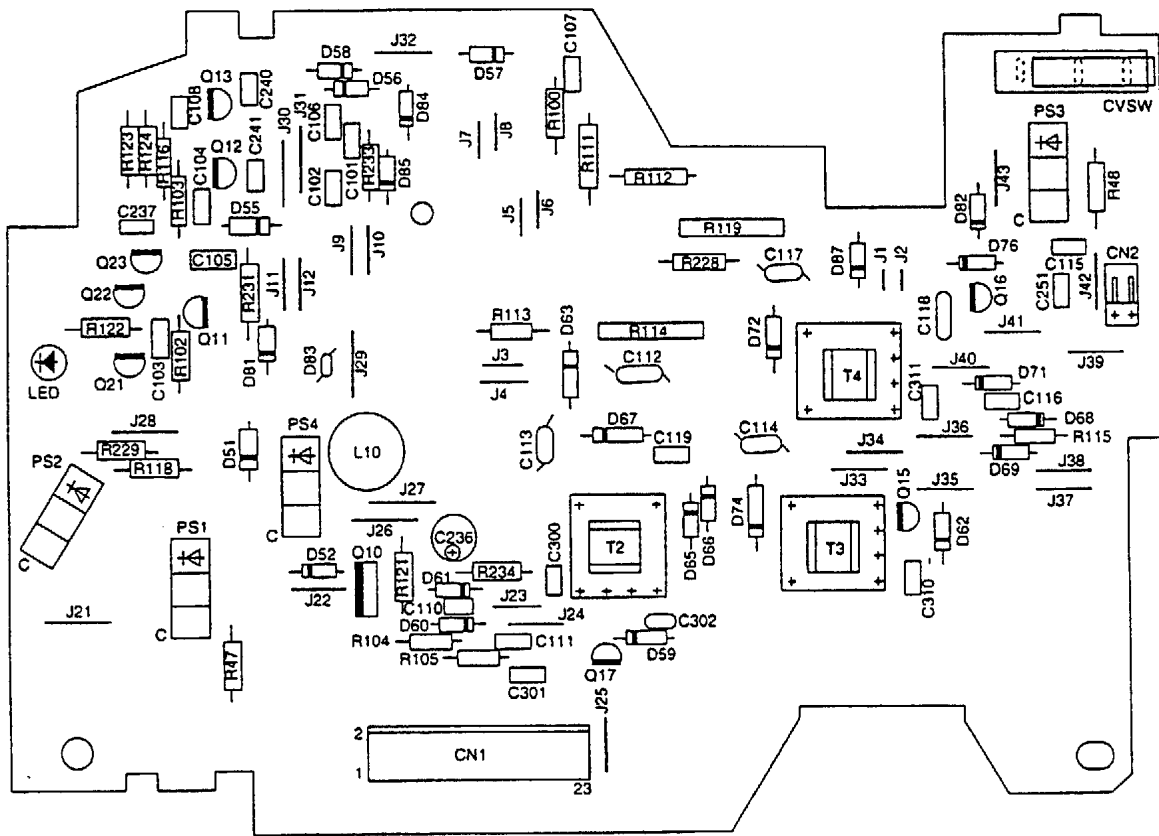
Appendix E: Board Layout

E.1 TLHV PCB

Service Caution

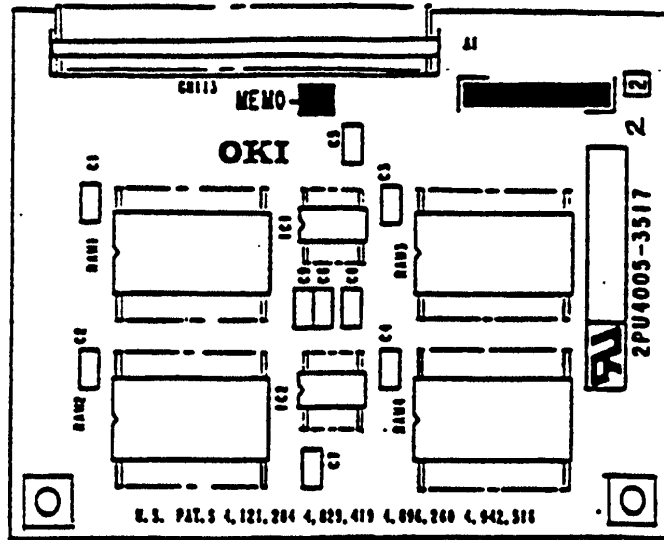
The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.



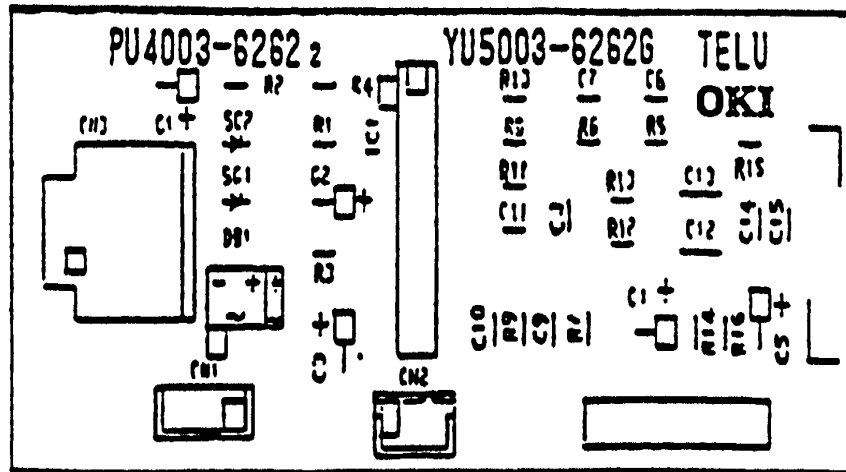
TLHV.eps

E.2 MEM PCB



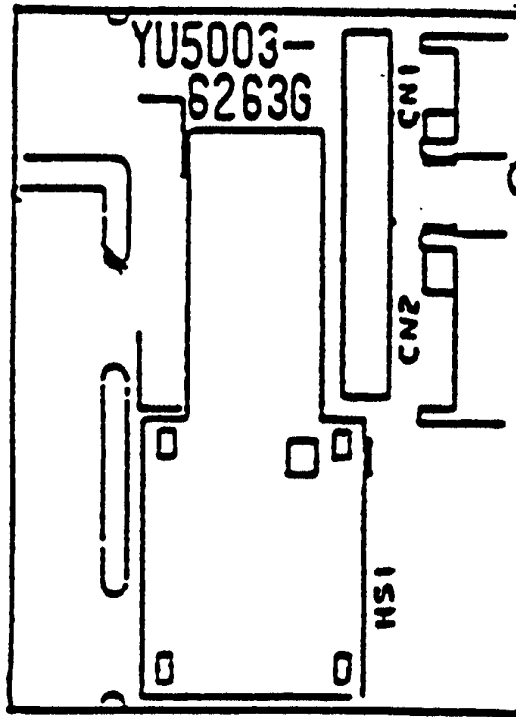
MEM.eps

E.3 TEL-U PCB



TEL-U.eps

E.4 Hook PCB



Hook.eps

Appendix F: Second Paper Feeder

F.1 General Information

The OKIOFFICE 44 does not have a second paper feeder.

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Appendix G: RMCS System

Introduction

RMCS stands for the Remote Management Center System. RMCS refers to setting registration data and conducting the following types of maintenance operations from a remote location.
(Refer to Figure 1)

The purpose of this system is to speed up customer service and reduce maintenance costs.

RMCS model for FX050 series is only Model 20.

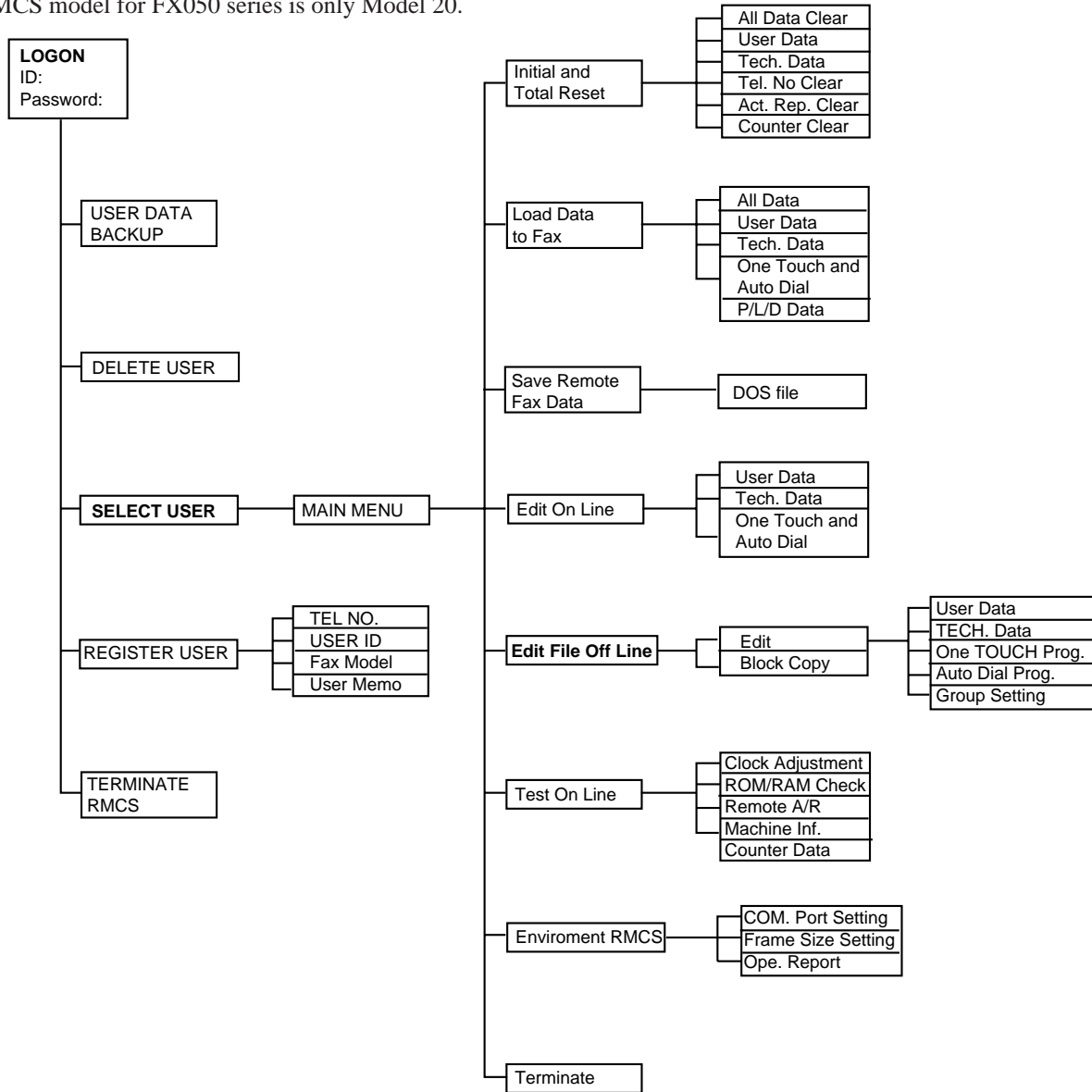


Figure 1 Remote Management Center System (RMCS)

1. Notes to Users

1.1 Identifying the Packaged Contents

Before using this system, the packaged contents with the package list. Contact your dealer if any component from the package.

1.2 Required Devices

The following devices and software are required to operate this system.

Personal computer	IBM PC/AT or compatible model
Internal memory	300KB or more
Extended memory	1MB or more
Fixed disk drive	20MB or more
Display	CGA/EGA/VGA type
FX-050 series facsimile	
PC-I/F card	P050 (Ver.PA2 or later)
RS-232C cable	25-pin female connector
Telephone line	Public telephone line or two-way local channel
Operating system	PC-DOS Ver.3.1 or later

This system requires ANSI.SYS for screen control.
Confirm the following line in the CONIG.SYS file, if not found please add to write the command.

```
DEVICE=C:¥DOS¥ANSI.SYS
```

This system uses EMS memory. In case of memory manager consisted of those EMM386.EXE or similar types is used by configuration without EMS function, you should remark it does not work.

```
EXP.: DEVICE=C:¥DOS¥EMM386.EXE NOEMS
```

Cannot use in settings of the COM port which connect to PC-I/F excluding default.

COM _x	SERIAL PORT START ADDRESS	SERIAL PORT END ADDRESS	IRQ
COM1	3F8	3FF	IRQ4
COM2	2F8	2FF	IRQ3
COM3	3E8	3EF	IRQ4
COM4	2E8	2EF	IRQ3

1.3 Connectable Peripheral Equipment

Printer	
Mouse	Microsoft mouse or equivalent
Telephone	

To use a mouse, a mouse driver program is required. This program is automatically incorporated by the installation program.

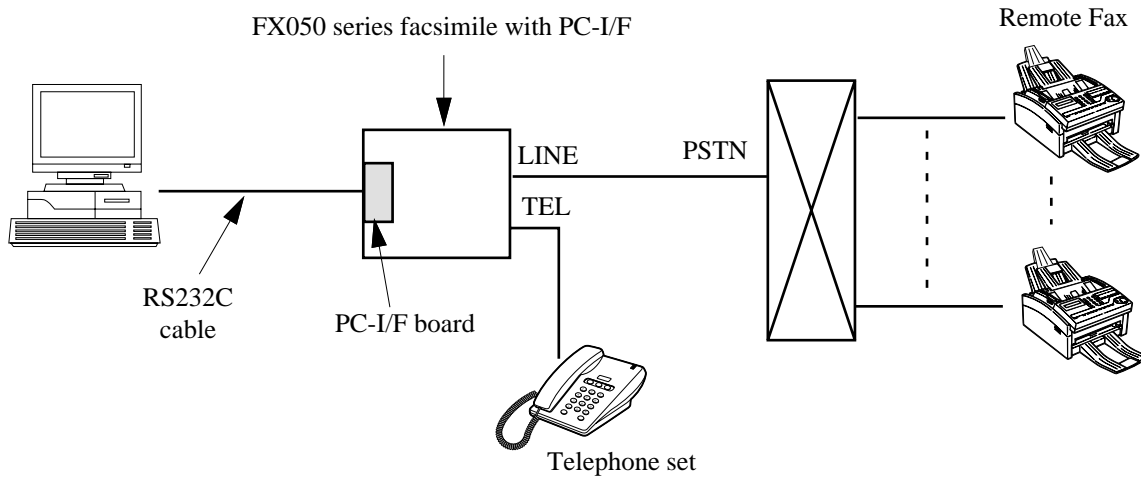
2. Setup

2.1 Mounting

This system (RMCS Model 20) is used FX050 series Facsimile with PC-I/F.

Conceptual connection diagram of RMCS Model 20 with other devices

Conceptual connection diagram of RMCS with other devices



No problem is caused for the basic operation of this system even if no telephone set connected.

2.1.1 Mounting Procedures

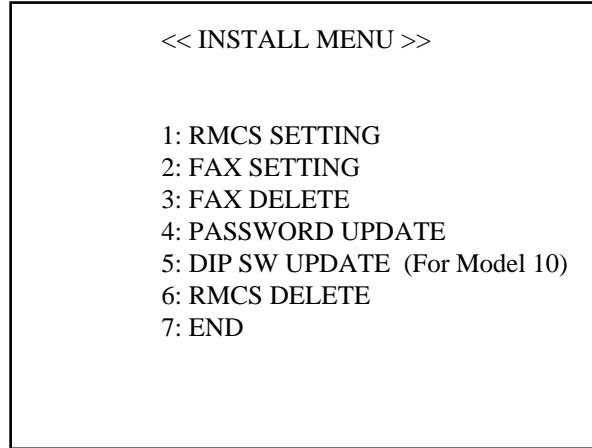
- 1) Before operation, disconnect the power plug of the IBM PC/AT from the system plug socket.
- 2) Disconnect the power plug of FX050 series Facsimile, too and set PC-I/F board to the Facsimile.
- 3) Connect RS232C cable between COM. Port of the IBM PC/AT and PC-I/F board of the Facsimile.
- 4) Connect the power plug of the IBM PC/AT and the Facsimile and turn their power switch on.

2.2 Installation

When the PC/AT is activated by using the hard disk, insert an RMCS system disk into drive A. When C>_ is displayed, enter commands as shown below to activate the installation program.

```
C> A:[Enter]
A> INST[Enter]
```

Remote Management Center System



Please select the desired item.

Select processing with the numeric keypad.

- [1] Register the RMCS basic system.
- [2] Register the facsimile model number.
- [3] Delete the facsimile model number.
- [4] Update the password.
- [5] Update the dip switches.
- [6] Delete the RMCS basic system.
- [7] End of the Menu.

Each processing from [1] to [6] is described later.

2.2.1 Registering the RMCS Basic System

The flow of new registration is different from that of updating. First, the flow of new registration is described below.

Remote Management Center System

```
<< RMCS SETTING >>
HARD DISK DRIVE  = [C]
```

Press the Esc key to cancel.

- 1) Enter the drive No. used to register the system.

Remote Management Center System

```
<< RMCS SETTING >>
HARD DISK DRIVE  = [C]
DIRECTORY        = [C:\RMCS_  ]
```

Press the Esc key to cancel.

- 2) Enter the directory name with up to eight alphanumeric characters.

Remote Management Center System

```
<< RMCS SETTING >>
HARD DISK DRIVE  = [C]
DIRECTORY        = [C:\RMCS  ]
PASSWORD         = [ _          ]
```

Press the Esc key to cancel.

- 3) Register a password of up to 15 alphanumeric characters excluding [],[“]. If the system operator is not defined, password registration not required.

Remote Management Center System

```
<< RMCS SETTING >>
HARD DISK DRIVE  = [C]
DIRECTORY        = [C:\RMCS  ]
PASSWORD         = [          ]
DIPSW (ON:0 OFF:1) = [11000000]
(For RMCS Model 10 only)
```

Press the Esc key to cancel.

- 4) When you use RMCS Model 10, set the dip switches on the RMCS card. Normally, you need only press [Enter]. When an other extension slot and conflicting address space are being used, change the address space with the dip switches, then set the contents by using 1 and 0. When you use RMCS Model 20, you need only press [Enter].

OFF corresponds to 1 and ON to 0. Therefore set the dip switches to 11000000 in the following case.

Remote Management Center System

```
<< RMCS SETTING >>
HARD DISK DRIVE  = [C]
DIRECTORY        = [C:\RMCS_  ]
PASSWORD         = [          ]
DIPSW (ON:0 OFF:1) = [11000000]
Are you sure (Y or N)?  Y
```

Press the Esc key to cancel.

5) When the setting is correct, enter [Y]. The system is now registered. If not correct, enter [N]. Then repeat from step 1) again.

When registering the system, also register ANSI.SYS required for screen control and MOUSE.SYS for using the mouse.

If RMCS is already set in the IBM PC/AT, RMCS SETTING MENU is displayed as below.

Remote Management Center System

```
<< RMCS SETTING >>

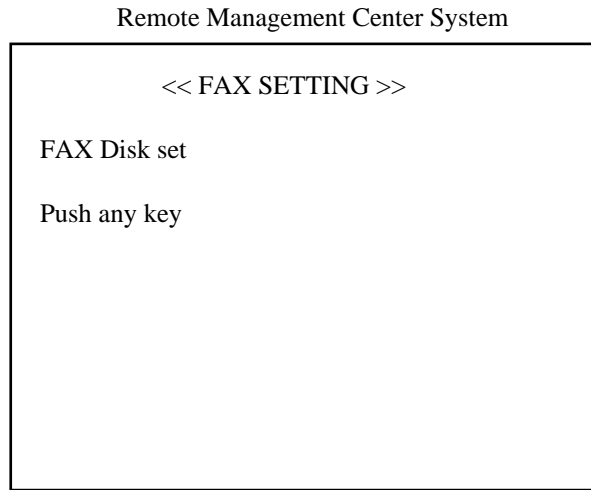
"RMCS" system already registered!
Over write OK ?  Y
```

Press the Esc key to cancel.

6) When updating, enter [Y]. Then updating status. When not updating, enter [N].

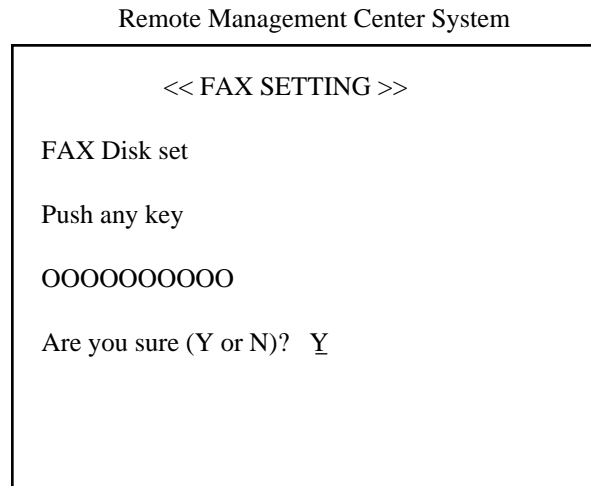
2.2.2 Registering the Facsimile Model No.

- 1) Search the directory in which the system is registered. When the system is found, register the model number.



Press the Esc key to cancel.

- 2) Insert a disk corresponding to the model into drive A, then press any key. The model number is displayed and the confirmation screen is displayed.



Press the Esc key to cancel.

- 3) When the model number to be registered is correct, enter [Y]. The program corresponding to the model number is now registered. If not correct, enter [N]. Then repeat from step 1) again.

2.2.3 Deleting the Facsimile Model No.

- 1) Search the directory in which the system is registered. When the system is found, a list of registered models is displayed.

Remote Management Center System

<< FAX DELETE >> 1/1

[0]: OOOOOOOOOO
[1]:
[2]:
[3]:
[4]:

[Page Up]: Previous page
[Page Down]: Next page

Please select the FAX model.
Press the Esc key to cancel.

- 2) Select the model number to be deleted. This number is then displayed in inverse video. The confirmation screen is also displayed.

Remote Management Center System

<< FAX DELETE >> 1/1

[0]: OOOOOOOOOO
[1]:
[2]:
[3]:
[4]:

[Page Up]: Previous page
[Page Down]: Next page

Are you sure (Y or N)? Y
Press the Esc key to cancel.

- 3) When the model number deleted is correct, enter [Y]. The program corresponding to the model number is now deleted. If not correct, enter [N]. Then repeat from step 1) again.

2.2.4 Updating the Password

- 1) Search the directory in which the system is registered. When the system is found, the old password is displayed on the screen requesting entry of a new password is displayed.

Remote Management Center System

<< PASSWORD UPDATE >>

OLD PASSWORD = [1234567890]

NEW PASSWORD = [_]

Press the Esc key to cancel.

- 2) Register a new password of up to 15 alphanumeric characters excluding [\], [“]. Press [Enter] to display the confirmation screen.

Remote Management Center System

<< PASSWORD UPDATE >>

OLD PASSWORD = [1234567890]

NEW PASSWORD = [ABCDEFGH]

Are you sure (Y or N)? Y

Press the Esc key to cancel.

- 3) When the setting is correct, enter [Y]. The password is now updated. If not correct, enter [N]. Then repeat from step 1) again. If the system operator does not define the PASSWORD, PASSWORD is not checked when RMCS starting.

2.2.5 Updating the Dip Switches

This setting is available for only RMCS Model 10.

- 1) Search the directory in which the system is registered. When the system is found, the dip switch setting is displayed.

Remote Management Center System

<< DIP SW UPDATE >>

DIP SW (ON:0 OFF:1) = [11010000]

(For RMCS Model 10 only.)

Press the Esc key to cancel.

For the detail of setting, refer to 2.2.1.

After setting is completed, press [Enter]. Then the screen for verification is displayed.

Remote Management Center System

<< DIP SW UPDATE >>

DIP SW (ON:0 OFF:1) = [11010000]

Are you sure (Y or N)? Y

Press the Esc key to cancel.

- 3) When the setting is corrected, enter [Y]. The dip switches are now updated. If not correct, enter [N]. Then repeat from step 1) again.

2.2.6 Deleting the RMCS Basic System

- 1) When to delete, enter [Y], then whole RMCS system is deleted. When not to delete, enter [N]. Then the installation menu appears.

Remote Management Center System

<< RMCS DELETE >>

DIRECTORY : [C:\RMCS]

Are you sure (Y or N)? N

Press the Esc key to cancel.

3. RMCS Basic Operation

3.1 Activating and Terminating the system

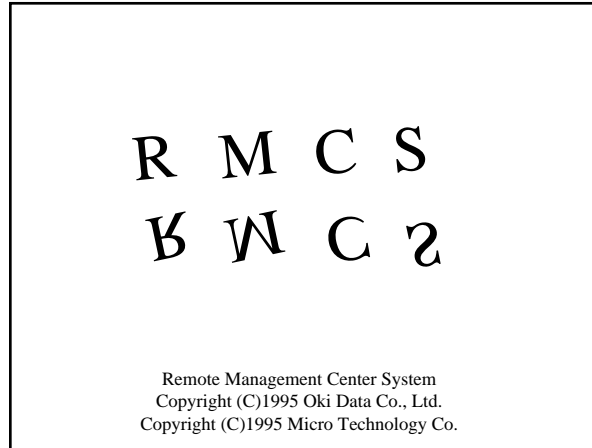
Before Activating the system

If the facsimile terminal is equipped with a selector function to “enable” or “unable” remote maintenance, set to “enable” in advance.

3.1.1 To Activate

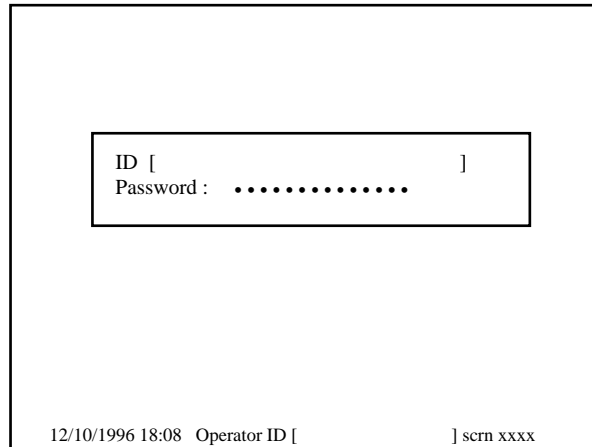
Enter the following command in the PC-DOS command input state.

C>RMCS



After completing the necessary preparations, the ID and password entry screen is displayed.

3.1.2 Entering the ID and Password



The ID is recorded in the operation report as part of the system operator history. Enter up to 50 alphanumeric characters except [“], [] for the ID.

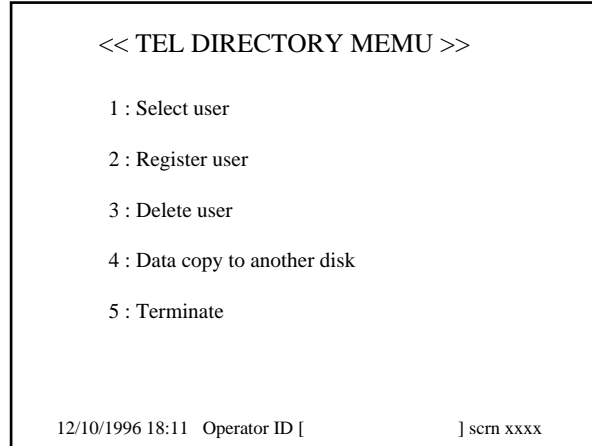
Enter the password registered at installation. When the correct password is entered. TEL Directory menu screen is displayed.

If you enter wrong password three times, ID and password entry screen is closed and return to the PC-DOS command input state.

3.2 TEL Directory

You can select such services (items) registration and deletion of information related to users. We describe the detail of each service later.

There are two ways to specify an item: select by using the [↑] and [↓] keys, then press [Enter] or enter the number before the item.

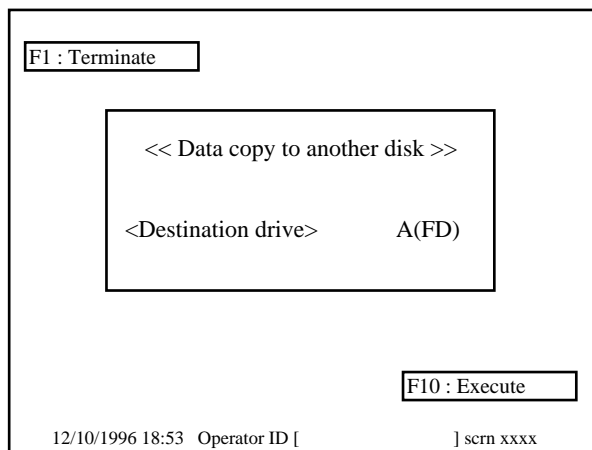


3.2.1 To Terminate

To terminate this system select "Terminate" on TEL directory menu screen or the main menu screen to return to PC-DOS.

Caution: After terminating remote management, restore the original facsimile terminal setting. (See to "Unable" remote diagnosis.)

3.2.2 Selecting Destination Drive



Now, select the destination drive. Press [Space] to change the drive name.
Select "Terminate" to stop processing and return to the TEL directory menu screen.
Select "Execute" to copy user information between the drives and return to the TEL directory menu screen.

3.3 Main Menu

The main menu screen varies according to FAX models. For further operation, refer to each FAX model manual.

F1 : TEL directory	User ID []
F2 : Set the TEL number	FAX model []
	TEL number []

<< MAIN MENU >>

- 1: Initialization of FAX
- 2: File [LOAD] (Center to FAX)
- 3: File [SAVE] (Center from FAX)
- 4: [EDIT] (ON LINE)
- 5: File [EDIT] (OFF LINE)
- 6: Testing
- 7: Environment setting
- 8: Terminate

Please select the desired item.

12/10/1996 18:58 Operator ID [] scrn xxxx

There are two ways to specify an item: select by using the [↑] and [↓] keys, then press [Enter] or enter the number before each item.

Detail on “Environment Setting” is described later.

Submenus can also be specified by using the function keys.

Press [F1] to return to TEL directory menu screen.

Press [F2] to display the TEL number setting screen when you want to change the number registered into the user information file temporarily.

3.4 Environment Setting

F1 : Return to the main menu	User ID []
	FAX model []
	TEL number []

<< ENVIRONMENT SETTING >>

- 1 : Communication port setting
- 2 : Frame size setting
- 3 : Operation report

Please select the desired item.

12/10/1996 09:26 Operator ID [] scrn xxxx

Selecting “ENVIRONMENT SETTING” on the main menu to display this screen.

Communication port setting:

Select communication port to connect the IBM PC/AT and PC-I/F.

Frame size setting:

Select a frame size for each frame to transfer TEL number data and program/language/default data during execution of File [LOAD] (Center to FAX) and [EDIT] (ON LINE).

Operation report:

The operation report displays the transmission status.

Press [F1] to return to the main menu screen.

4. Message Modifying Tool

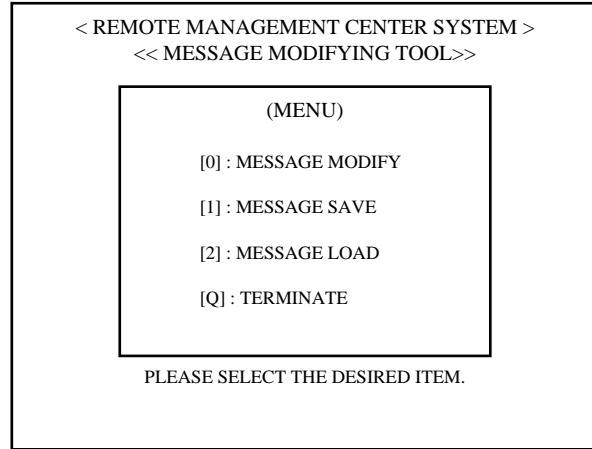
4.1 Activating the Program

After activating the PC/AT with a hard disk, insert the RMCS system disk into drive A.
When C>_ is displayed, enter the following commands to activate the program.

C>A:[Enter]

A> SCRNERD [Enter]

Then the screen for menu selection is displayed.

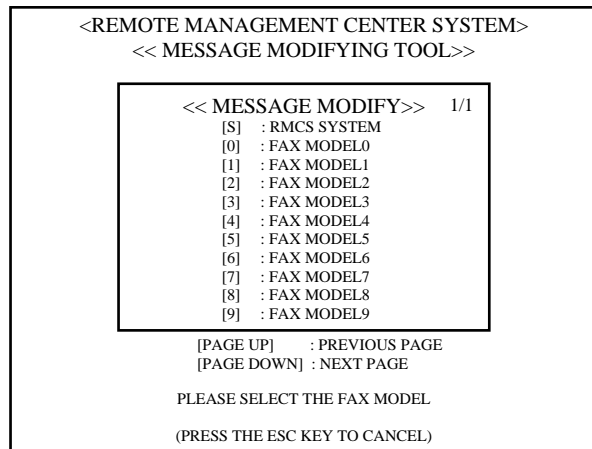


- Press [0] - [2] to display a screen for FAX model selection of each service.
- Press [Q] to terminate the program and return to PC-DOS.

4.2 Modifying Message

File selection:

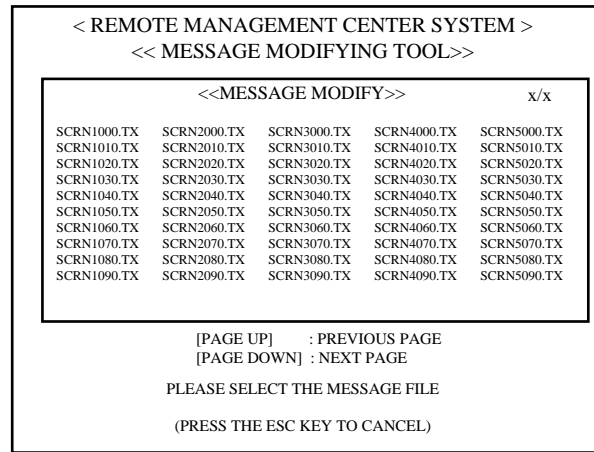
Select "MESSAGE" MODIFY" on the menu screen, then the following screen is displayed.



Enter the key No. indicated on the left of the model to modify. Then the screen for file selection is displayed.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the FAX model selection and return to the menu screen.

4.2.1 File Selection



Select the message title to modify.

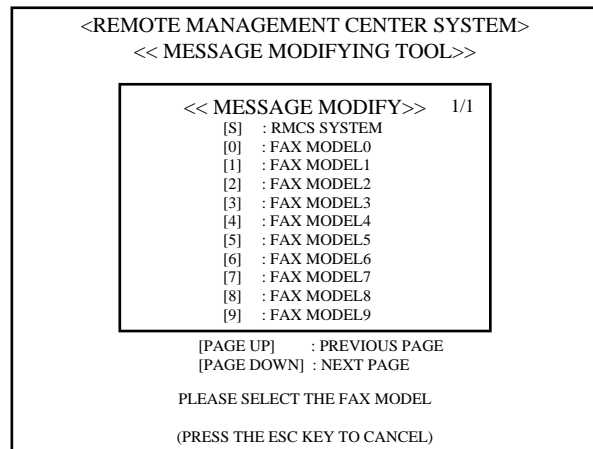
Select the position with [↑], [↓], [←] and [→] keys, and press the [Enter] key, then the position is selected.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the title selection and return to the FAX model selection screen.

4.3 Saving Message

Model Selection:

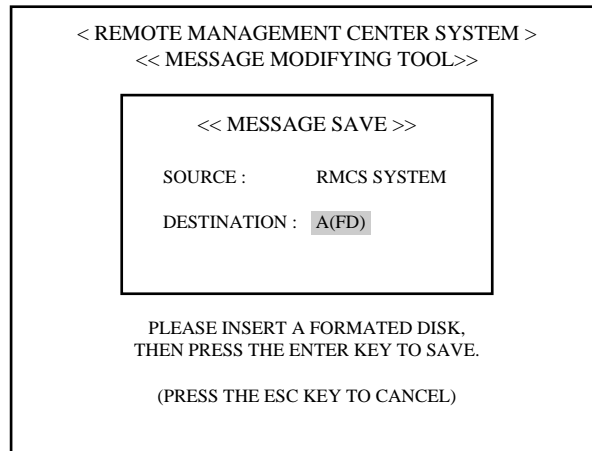
Select "MESSAGE SAVE" on the menu screen. then the following screen is displayed.



Enter the key number indicated on the left side of the model with messages to store.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the FAX model selection and return to the menu screen.

4.3.1 Confirmation



Select a drive with the [Space] key.

Since it is assumed that data is stored on a floppy disk, you can select drive A or drive B.

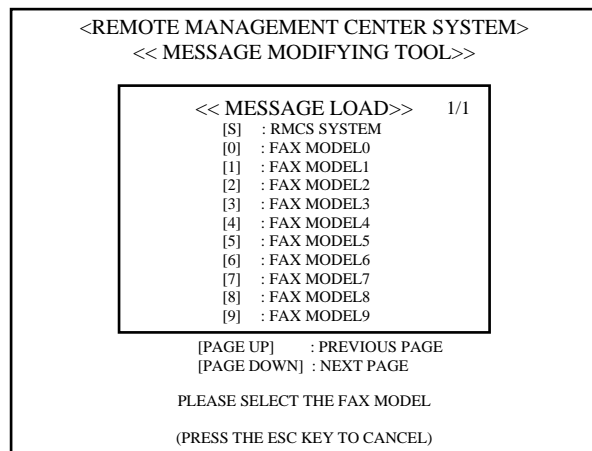
When setup is ready, insert a formatted floppy into the drive and press the [Enter] key, then saving is initiated.

- Press [Esc] to terminate saving message and return to the main menu screen.

4.4 Loading Message

Model Selection:

Select "MESSAGE LOAD" on the menu screen, the following screen is displayed.



Enter the key number indicated on the left side of the model with a message reset.

- Press [Page Up] or [Page Down] to scroll the screen back to the previous page or up to the next page.
- Press [Esc] to terminate the FAX model selection and return to the menu screen.

4.4.1 Confirmation

```
< REMOTE MANAGEMENT CENTER SYSTEM >
<< MESSAGE MODIFYING TOOL>>

<< MESSAGE LOAD >>

SOURCE :   A(FD)
DESTINATION :  RMCS SYSTEM

PLEASE INSERT A SAVED DISK,
THEN PRESS THE ENTER KEY TO LOAD.

(PRESS THE ESC KEY TO CANCEL)
```

Select a drive with the [Space] key.

It is assumed that a message is loaded on the machine from the floppy disk, you can select drive A or drive B.

When setup is ready, insert a floppy disk which stores the message into the drive and press the [Enter] key.

- Press [Esc] to terminate loading message and return to the main menu screen.

4.5 Other Message File

In addition to the "scrn OOOO.lx" file, the following message files are available.

RMCS SYSTEM

err_mess. tx	Error message text
rms_env. tx	Operator ID text
sc OOOO p. tx	Printing screen text
u_print. tx	Printing text
rms_env2. tx	New user text
online tx. tx	"ON LINE" text
inst. tx	install text

FAX MODEL

sc OOOO p. tx	Printing screen text
online tx. tx	"ON LINE" text
scrnerr. tx	Error message text

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Appendix H: Product Service Bulletins

H.1 General Information

OKIDATA's Product Service Bulletins contain technical information obtained after product release.

Firmware updates, part number changes, and procedural changes are some of the subjects covered by these bulletins.

The Product Service Bulletins are distributed via OKIDATA's Web Site, Faxable Facts, and OKILINK II.

Use this section to store any hardcopy Product Service Bulletin information you may obtain from these sources.

OKIDATA's Web Site

OKIDATA's Web Site provides easy access to OKIDATA's product and service information. The Business Partner Exchange (BPX) provides Dealer-Only information to OKIDATA's sales and service providers. The information covers ALL OKIDATA products, and is constantly updated.

OKIDATA's Web Site address is: www.okidata.com

Faxable Facts

OKIDATA's Faxable Facts is an automated fax document retrieval system. It is maintained by OKIDATA's Customer Service and Support Group. A wide variety of information is available through Faxable Facts. It is frequently updated.

You must use a touch-tone telephone to contact Faxable Facts, and have your fax number ready when you call. An automated attendant will prompt you through the steps in using Faxable Facts.

The contact number for Faxable Facts is: 1-800-654-6651.

OKILINK II

OKILINK II is OKIDATA's Bulletin Board Service. This service is available to all OKIDATA Certified Service Technicians. OKILINK II provides additional troubleshooting and service information. Technicians can download files, ask questions of OKIDATA's technical support personnel, and participate in round table discussions about OKIDATA products and services. Product Service Bulletins, Recommended Spare Parts Lists, Printer Drivers, Product Specifications, and Service Training Information are also available.

System Requirements for OKILINK II are listed below.

Asynchronous Communications Software set to:

8 Data Bits

No Parity

1 Stop Bit

Asynchronous Modem

up to 9600 BPS w/error correction (MNP/V.42bis)

IBM Graphics/ANSI Terminal Emulation

The dial in number for OKILINK II is 1-800-283-5474.

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Service Caution

The High Voltage Power Supply Unit in the OKIOFFICE 44 is mounted vertically on the left side of the unit, with the land side fully exposed. This board develops voltages of up to 1300 VDC as part of the normal printing process.

OKIDATA recommends that the unit be powered OFF (AC supply cord disconnected) before removing the Main Cover for service. In the event that it is necessary to troubleshoot the unit with the Main Cover removed, with AC power supplied, please take every caution to avoid touching the exposed circuitry of the High Voltage Power Supply Unit. To do so accidentally can result in a shock hazard.

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Appendix I: Recommended Spare Parts List (RSPL)

I.1 General Information

Recommended Spare Parts Lists (RSPLs) contain the current part numbers, descriptions, pricing, and stocking information for OKIDATA product spare parts.

The Recommended Spare Parts Lists are distributed via OKIDATA's Web site, Faxable Facts, and OKILINK II.

Use this section to store any hardcopy RSPL information you obtain from these sources.

OKIDATA's Web Site

OKIDATA's Web Site provides easy access to OKIDATA's product and service information. The Business Partner Exchange (BPX) provides Dealer-Only information to OKIDATA's sales and service providers. The information covers ALL OKIDATA products, and is constantly updated.

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OKIDATA[®]

**OKIOFFICE 44
Service Manual**

Part Number 59276801

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