

1 INTRODUCTION

This material contains details of "NEW" FAX-L760 and FAX-L770 for USA. The previous version will be called FAX-L760 #1 and FAX-L770 #1. The new modified version will be called FAX-L760 #2 and FAX-L770 #2 in this material.

Following improvements have been made to the new modified version, compared with the previous version.

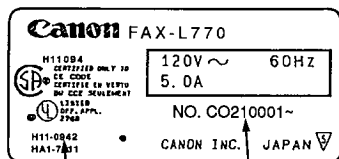
(1) CS unit

(2) Power supply unit

Whereas, previous models had separate power supply units for both printer and fax, this model has a single power supply unit, which supplies both.

(3) SCNT1 & SCNT2 card unit

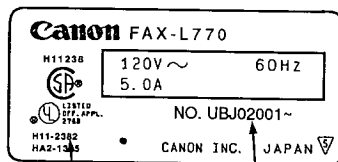
The modem is now contained in the SCNT1 card unit and lithium battery is now contained in the SCNT2 card unit.



Code

Body No.

Figure 1 Rating plate of FAX-L770 #1



Code

Body No.

Figure 2 Rating plate of FAX-L770 #2

Note: When using FAX-L760 and FAX-L770, check the code and body No. of the rating plate to determine whether the machine is FAX-L760 #1 and FAX-L770 #1 or FAX-L760 #2 and L770 #2.

Chart 1

Model	Code	Body No.
FAX-L770 #1	H11-0942	C0210001~
FAX-L770 #2	H11-2382	UBJ02001~

2 SERVICE PRECAUTIONS

(1) Before turning OFF the main power:

When the main power of this unit is turned OFF, confidentially received images, memory received images, and a part of the recorded data are cleared. Please be careful when the power is turned off for servicing.

With this unit, whether or not image memory has been used can be checked by output of a memory report. See (memory verification) and (report) for operating method.

The contents that are cleared when the main power is turned off are listed in the table below.

No.	Name of mode	Cleared contents
1	Memory reception	Image received by memory reception
2	Relay broadcasting *1	Image received by relay reception (L770 only)
3	Confidential reception	Image received confidentially
4	Memory transmission	Image and transmission reservations
5	Delayed transmission	Image stored for delayed transmission, and times and addresses
6	Memory polling	Image stored for polling standby
7	Batch transmission	Image stored for batch transmission, and times and addresses (L770 only)
8	Delayed (multi) polling	Communication reservations for delayed (multi) polling
9	Confidential transmission	Registered confidential mode for confidential transmission (except cases of registration in one-touch key)
10	Relay broadcast	Registered relay mode for relay broadcast control (except cases of registration in one-touch key)

*1. Effective when a 2M byte memory option kit is used.

(2) Confidential mailbox password

The confidential mailbox password is comprised of a 4-digit password set by the user, and the 7-digit master password. This master password can output the received images and can change/delete the password for all confidential mailboxes. This password can be used when, for example, the user forgets the password which he has set. This password, however, is not described in the instruction book.

Master password = 4559769

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CHAPTER 1

OUTLINE

1 FEATURES

- (1) High Speed Transmission
Capable of high speed transmission with a data compression system originally developed by Canon.
 - (2) Auto dialing
One-touch dialing is available for up to *72 locations and coded speed dialing for up to 100 locations.
 - In one-touch dialing and coded speed dialing, the transmission mode (transmission start, long distance, etc.), relay control broadcasting transmission or confidential mailbox transmission, etc. can be registered.
 - (3) Memory reception
This function enables reliable reception even if the machine runs out of recording paper.
 - (4) Enhanced UHQ (NEW image processing system)
This system combines a new image processing method (UHQ) using edge emphasis, error diffusion, and the AA (auto adjuster) mode. While the UHQ ensures a high image quality, the AA mode lets the user transmit or copy information accurately, regardless of the type of information, (characters, photographs, combination of both).
 - (5) Dual operation (L770 only)
It is possible to operate on-line operation, (memory transmission/reception), and off-line operation, (copy, report output, etc.), simultaneously.
 - (6) Batch transmission (L770 only)
Batch transmission is possible by presetting destination number and time in one-touch dialing.
 - (7) Time-sharing dial function
When one transmission is in redialing standby, if there is a subsequent transmission reservation, this function makes it possible to start that transmission immediately.
 - (8) Recording system
 - Recording on plain paper on built-in LBP.
 - Recording quality has been greatly improved, due to the hypersmoothing and automatic density adjustment functions.
 - (9) ECM Communication
This unit can communicate in the ECM mode, the CCITT-recommended error image retransmission method.
 - (10) Optional MEMORY KIT
Optional DRAM memory kit supplies some functions and increases the storage number of documents as described in specifications. New relay broadcasting system can be performed with 24MByte or 4MByte DRAM.
 - (11) Convenient functions
Activity report, auto feeder, auto cutter, transmission stamp, redial function, Individual TTI, delayed transmission function, delayed multipolling function, Batch transmission function, relay control broadcasting function (effective only with parties which have a Canon UNIT with a confidential reception function), confidential reception function, transmission reservation function.
- * 40 locations for L760.

2 SPECIFICATIONS

Chart 1-2-1 List of specifications

No.	Item	Contents										
1	Type	Facsimile transceiver										
2	Unit configuration	Desktop										
3	Applicable lines	PSTN (Public Switched Telephone Network)										
4	Transmission system	Half-duplex										
5	External dimensions	Approx. 457(W) × 480(D) × 290(H) mm (excluding trays and handset)*										
6	Weight	Approx. 22 kg (excluding recording paper, but including handset)*										
7	Document form	Sheet										
8	Document size	Max. width: 279 mm (11") Min. width: 148 mm, Min. length: 70 mm										
9	Document thickness	0.06 ~ 0.13 mm										
10	Document slider movement range	146 ~ 282 mm										
11	Automatic document feed (ADF)	Canon NP paper. A4 size: up to 30 sheets B4 size: up to 10 sheets										
12	Effective reading width	A4: 208mm (214mm when EXTRA LED is on [USA only]) B4: 254mm										
13	Effective recording width	Approx. 210mm										
14	Document transmission time	Condition: ● CCITT No. 1 test chart (A4 size) ● Document transmission period only (excluding transmission procedure period) ● No error correction and re-transmission in case of image error <table><tr><th>Transmission mode</th><th>Standard (3.85 lines/mm)</th><th>Fine (7.7 lines/mm)</th><th>Superfine (15.4 lines/mm)</th><th>Remark</th></tr><tr><td>CSHT (MMR-ECM)</td><td>Approx. 9 sec.</td><td>Approx. 18 sec.</td><td>Approx. 36 sec.</td><td>9600 bps</td></tr></table>	Transmission mode	Standard (3.85 lines/mm)	Fine (7.7 lines/mm)	Superfine (15.4 lines/mm)	Remark	CSHT (MMR-ECM)	Approx. 9 sec.	Approx. 18 sec.	Approx. 36 sec.	9600 bps
Transmission mode	Standard (3.85 lines/mm)	Fine (7.7 lines/mm)	Superfine (15.4 lines/mm)	Remark								
CSHT (MMR-ECM)	Approx. 9 sec.	Approx. 18 sec.	Approx. 36 sec.	9600 bps								

* L760 has no handset.

No.	Item	Contents																											
15	Modulation system (Image transmission)	G3: CCITT V.29 9600 bps, 7200 bps (QAM: Quadrature Amplitude Modulation) CCITT V.27ter 4800 bps, 2400 bps (PSK: Phase Shift Keying) G2: AM-PM-VSB (carrier frequency 2100 Hz)																											
	(Transmission procedure)	G3: CCITT V.21 (No. 2), 300 bps G2: Tonal																											
16	Scanning line density	Horizontal scanning: 8 pels/mm (read/record) Vertical scanning:																											
		<table><tr><td colspan="2"></td><td>Read (Density lines/mm)</td><td>Record (Density lines/mm)</td></tr><tr><td rowspan="3">Life size</td><td>Standard</td><td>3.85</td><td>15.40</td></tr><tr><td>Fine</td><td>7.70</td><td>15.40</td></tr><tr><td>*Superfine</td><td>15.40</td><td>15.40</td></tr><tr><td rowspan="4">Reduction</td><td>B4 Standard</td><td>3.15</td><td rowspan="3">Scanning lines are skipped for transmission.</td></tr><tr><td>↓ Fine</td><td>6.3</td></tr><tr><td>A4 *Superfine</td><td>12.6</td></tr><tr><td>90 %</td><td></td><td>13.86</td></tr><tr><td></td><td></td><td></td><td>13.86</td></tr></table>			Read (Density lines/mm)	Record (Density lines/mm)	Life size	Standard	3.85	15.40	Fine	7.70	15.40	*Superfine	15.40	15.40	Reduction	B4 Standard	3.15	Scanning lines are skipped for transmission.	↓ Fine	6.3	A4 *Superfine	12.6	90 %		13.86		
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	90 %		13.86																										
			13.86																										
		* Superfine mode allows binary operation only .																											
17	Transmission compatibility	- Communications with CCITT G3 machines are possible in modes other than Superfine. - Communications with Canon machines equipped with Superfine mode are possible only with binary operation in Superfine Transmission. (Due to the use of hyper-smoothing function, communications in Superfine mode between L760/L770 machines are not available.)																											
18	Compression systems	MH/MR/CSHT (MMR-ECM)/CBT/CMT1																											
19	Half-tone	Image processing by error diffusion method																											
20	Document reading method	Contact sensor																											
21	Power consumption	<table><tr><td></td><td>120V</td><td>220/240V</td></tr><tr><td>Standby (average value)/ While heater is OFF.</td><td>Less than 30W</td><td>Less than 30W</td></tr><tr><td>Max. value (100%-black copy)</td><td>Less than 500W</td><td>Less than 500W</td></tr></table>		120V	220/240V	Standby (average value)/ While heater is OFF.	Less than 30W	Less than 30W	Max. value (100%-black copy)	Less than 500W	Less than 500W																		
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Standby (average value)/ While heater is OFF.	Less than 30W	Less than 30W																											
Max. value (100%-black copy)	Less than 500W	Less than 500W																											
(Room temperature 20°C)																													

No.	Item	Contents
22	Environment conditions	Temperatures: 5 ~ 32.5°C Humidity: 20 ~ 85% RH
23	Recording method	Electronic photography by LBP (using single-component dry toner)
24	Warming-up (Wait) time	60 sec or less. (Period after printer power ON until the printer warms up at an ambient temperature of 20°C and with rated AC voltage input)
25	FX-1 cartridge (Toner capacity)	Approx. 3,000 sheets (A4, 4% standard chart)
26	Laser optical system	Laser: Semiconductor laser Optical system: Rotating optical mirror
27	Printing system	Photosensitive drum: OPC Charging: Charging roller Exposure method: Laser scanning Paper feed: Multi-purpose tray feed, cassette feed Image transfer: Charging roller Toner supply: Included in replaceable FX-1 cartridge
28	Recording paper capacity	Multi-purpose tray : 50 sheets Cassette : 250 sheets
29	Recording paper tray capacity	A4, Letter: 200 sheets Legal: 100 sheets
30	Recording paper	Types: NP paper, DH paper plain paper, 60 ~ 90 g/m ² Size: A4, Letter, Legal
31	Cassette types	A4, Letter, Legal
32	Time for first print	Approx. 31 sec, Note: Minimum type required for printing an A4 sheet (at an ambient temperature of 20°C and input voltage at 100 V)
33	Power supply	● 100 V machine: 100 V + 10/-15%, 50/60 Hz ● 120 V machine: 120 V + 10/-15%, 60 Hz ● 230 V machine: 220 V + 10/-15%, 60 Hz 240 V + 10/-15%, 50 Hz
34	Error correction function	ECM method (CCITT)
35	Minimum transmission time	Standard: 10 ms (5 ms when all white lines) Fine, Superfine: 5 ms
36	Transmission output level	0 ~ -15 dBm (adjustable in 1 dBm steps)
37	Reception input level	0 ~ -43 dBm
38	Input/output impedance	600Ω±30% (0.3 ~ 3.4 kHz)

No.	Item	Contents
39	Automatic dialing	One-touch speed dialing: *72 locations (38 digits) Coded speed dialing: 100 locations (38 digits) Numeric key dialing also possible. Redial (effective only after numeric key dialing). Group dialing (One-touch/Coded speed dialing numbers can be arranged in up to *72 groups).
40	Dual operation (L770 only)	Transmission reservation is possible while receiving. Transmission reservation is possible during memory transmission. Copying, recording paper cutting, and report output are possible during memory transmission. Memory reception is possible while copying. Memory transmission is possible while copying.
41	Time-sharing dialing	Executes time-shared reserved communication dialing. (At the time of redial stand-by, transmission of next reserved communication can be executed for more efficient telephone line usage.)
42	Memory (multiple) copies	Max. 99 copies
43	Clock precision	Error within ± 30 sec. per month (under normal temperature and humidity)
44	Communications management	Transmitting terminal ID recording, activity report of each communication, communication reservation, notice of undelivery, activity report (for last 40 communications), notice of multi-communication results.
45	ID display	Display of other-party ID/telephone No. (year, month, date, hour, minute/operation mode).
46	Handset (L770 only)	Electronic telephone provided as standard (USA only).
47	Transmission completion stamp (L770 only)	Stamped on document which has been transmitted.
48	Programmable keys	Readout modes, etc., can be stored under the programmable keys on the control panel.
49	Confidential communications	● Confidential transmission (Timer-operated confidential transmission is also available.) Images can be transmitted to a receiving machine with the confidential reception function, and be received by its memory. (Mailbox Nos. 00 ~ 99) ● Confidential reception (Can be set for mailbox No. 00 to 31.) Images transmitted by confidential transmission can be received in memory.

* L760=40 locations/groups

No.	Item	Contents
50	Batch transmission (L770 only)	Stored images can be transmitted to a designated address at designated times. A maximum of 172 batch transmissions can be registered.
51	Telephone reservation	Possible only with direct transmission.
52	Memory extension (optional)	Types of extension memories are as follows. ● Memory kit 1 MB ● Memory kit 2 MB
	Total memory	L760 ● Standard 0.5 MB ● 1.5 MB (w/Memory kit 1 MB × 1) L770 ● Standard 1.0MB ● 2.0 MB (w/Memory kit 1 MB × 1) ● 2.0 MB (w/Memory kit 2 MB × 1) ● 4.0 MB (w/Memory kit 2 MB × 2)
53	Memory reception	Memory reception is performed when the unit run out of recording paper. Maximum numbers of sheets stored in memory (Canon A4 standard document, standard mode) ● 0.5 MB machine: Approx. 8 sheets ● 1.5 MB machine: Approx. 40 sheets ● 2.0 MB machine: Approx. 56 sheets ● 4.0 MB machine: Approx. 120 sheets
54	Multi-destination transmission	Maximum number of destination addresses: *188 Maximum number of transmission reservations: 32 Maximum number of sheets transmitted from memory (Canon A4 standard document, standard mode) ● 0.5 MB machine: Approx. 8 sheets ● 1.5 MB machine: Approx. 40 sheets ● 2.0 MB machine: Approx. 56 sheets ● 4.0 MB machine: Approx. 120 sheets
55	Timer-delayed communication functions	The following functions can be operated by delayed timer; direct transmission batch transmission, (multi-) polling, batch relay transmission, confidential transmission, etc., up to a total of 32 reservations.
56	Transmission reservation	The next document transmission can be reserved even during transmission. Maximum number of reservations ● 0.5 MB machine: 8 reservations ● 1.5 MB machine: 40 reservations ● 2.0 MB machine: 56 reservations ● 4.0 MB machine: 120 reservations

* L760=156

No.	Item	Contents
57	(Timer-delayed) Batch relay indication transmission	Images can be transmitted to a receiving machine with the relay function, and the receiving machine can be made to work as the relay unit for use in batch transmission.
58	Relay-control batch transmission (optional) (L770 only)	(Available with 2.0 MB or 4.0 MB machines only) Relay-controlled images can be received and stored in memory, and the local terminal can be used as the relay unit for use in sequential batch transmission to max. 172 addresses. ● Maximum number of destination addresses: 188 ● Maximum number of transmission reservations: 32
59	OA interface (optional) (L770 only)	RS-232C, 9600 bps

CHAPTER 2

OPERATION

Note: The values described in this chapter are those when the machine was shipped from the factory and are subject to change. Be sure to execute the all-clear operation when the machine is installed, output the data list and confirm the setting details, then make proper settings according to the corresponding type (i.e., user's request, DP or PB telephone exchange).

1**REGULAR OPERATION, REGISTRATION, SETTING**

* Turn the registration switch to ON before carrying out any registrations or setting. If registrations or setting is attempted with this switch left at OFF, the following is displayed:

**REGISTRATION
ON REAR PANEL OFF → ON**

Always turn back the registration switch to OFF after completion of any registration or setting. (Factory setting is OFF.)

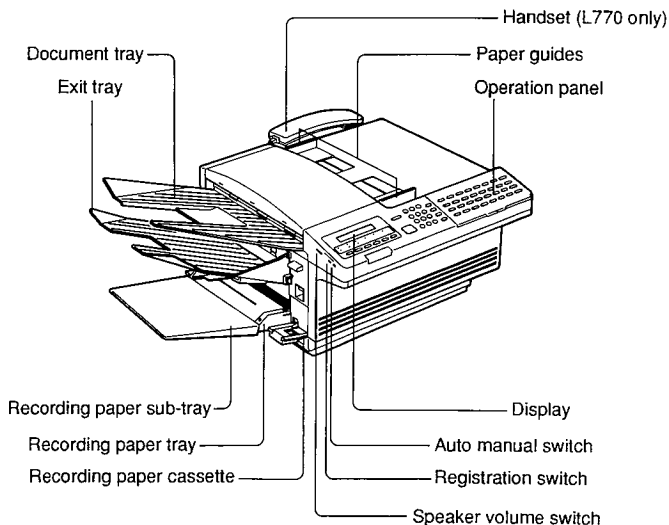
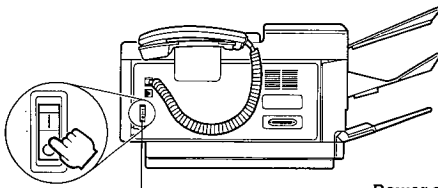


Fig. 2-1-1 Front View



Power switch

When you turn the power ON, the fax first display, "PLEASE WAIT." After a short time, the data and time appear. This shows that the fax is on standby, ready for use.

Fig. 2-1-2 Rear View

The Operation Panel

MANUAL lamp

Lights when the fax is set to receive manually.

( switch set to ).

TALK lamp

Lights when the talk feature is on.

EXTRA lamp

Lights when the extra feature is on.

Press to change the scanning width:

When the lamp is on : 214 mm

When the lamp is off : 208 mm

DARKER – LIGHTER key/lamp

Press to darken or lighten documents you send or copy. The lamps light to show which setting you are using. When both lamps are off, you are in the standard setting.

SUPER FINE – FINE key/lamp

Press to increase the clarity of documents you send. The lamps light to show which setting you are using. When both lamps are off, you are in the standard setting.

* Superfine can not be selected while HALFTONE or AA mode is selected.

HALFTONE/AA key/lamp

Press to send or copy photographs or other graphic images, or documents that contain text and photographs. The lamp lights to show which setting you are using.

* If SUPERFINE is already selected when HALFTONE or AA mode is selected, SUPERFINE is cancelled and FINE mode is set.

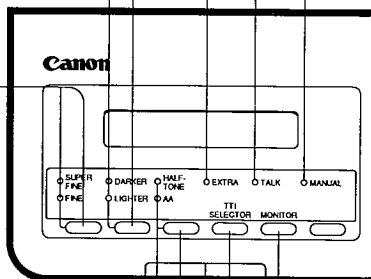
TTI SELECTOR key

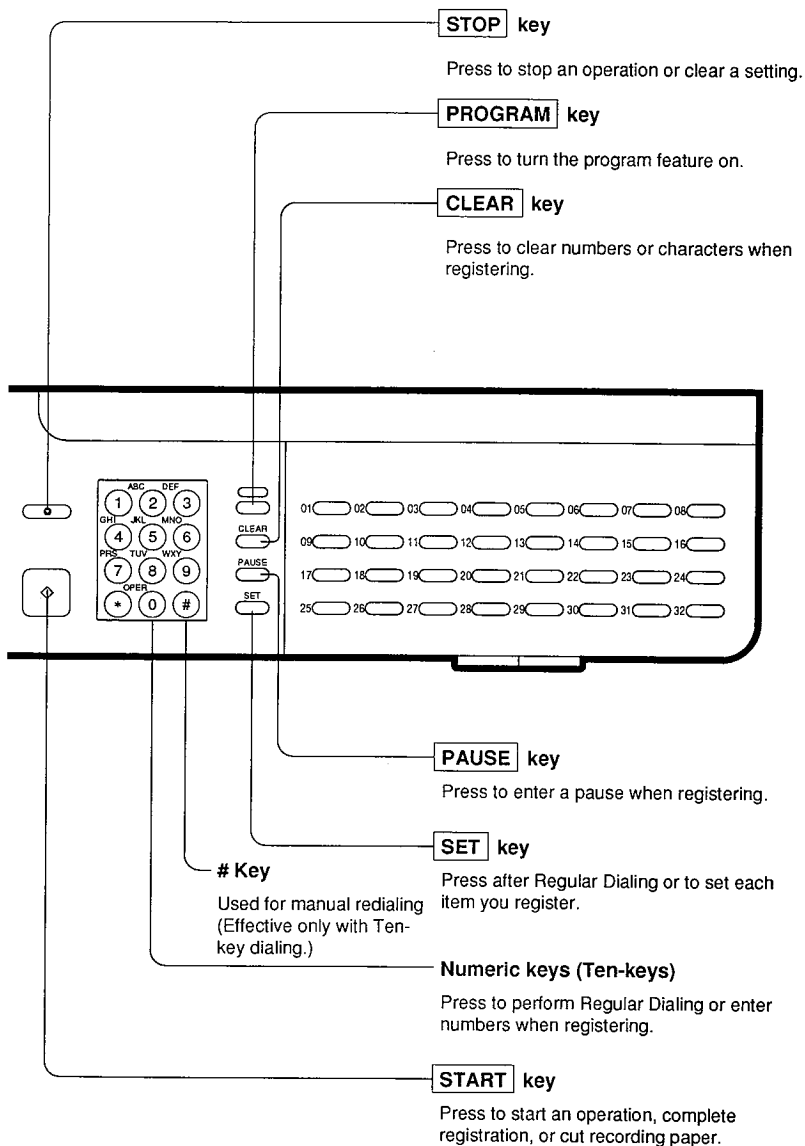
Press to select the name of the person sending the document.

MONITOR key

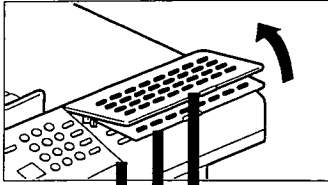
Press to check the display when sending or receiving.

* To stop communication, press the STOP key while pressing and holding the MONITOR key.





The Operation Panel



One-touch Speed Dialing Panels

The keys on this side of the control panel have two functions.

- When one or more of the panels are closed, the keys act as One-touch Speed Dialing keys.
- When the panels are open, the keys perform the operations described on these two pages.

STAMP key

Press to stamp originals after they have been sent. (L770 only)

EXTRA key

120V: This key increases the reading width from 208mm to 214mm.

230V: This key is used when making an extension call, and cannot be used in some areas

CURSOR key

Press to move the cursor when registering information.

SPACE key

Press to enter a space when registering.

STANDBY key

Press to complete registration and return to standby.

SEARCH keys

Press to search for menus and entries.

DELAYED TRANSACTION key

Press to send or receive documents at a preset time.

TEL REGISTRATION key

Press to register telephone numbers for Speed Dialing.

USER DATA key

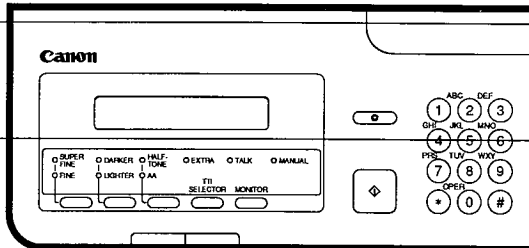
Press to register personal data with your fax.

1. Tally lamp (Green)

It flashes on and off when the facsimile uses telephone line.
It is lit when image or other data of transmission reservation or memory reception is stored in the memory.
(Do not turn the power switch off when this lamp is lit.)

2. Tally lamp (Red)

It is lit when the printer is in abnormal condition. (No paper, no toner, when the cover is open, while preheating, when a service error occurs.)

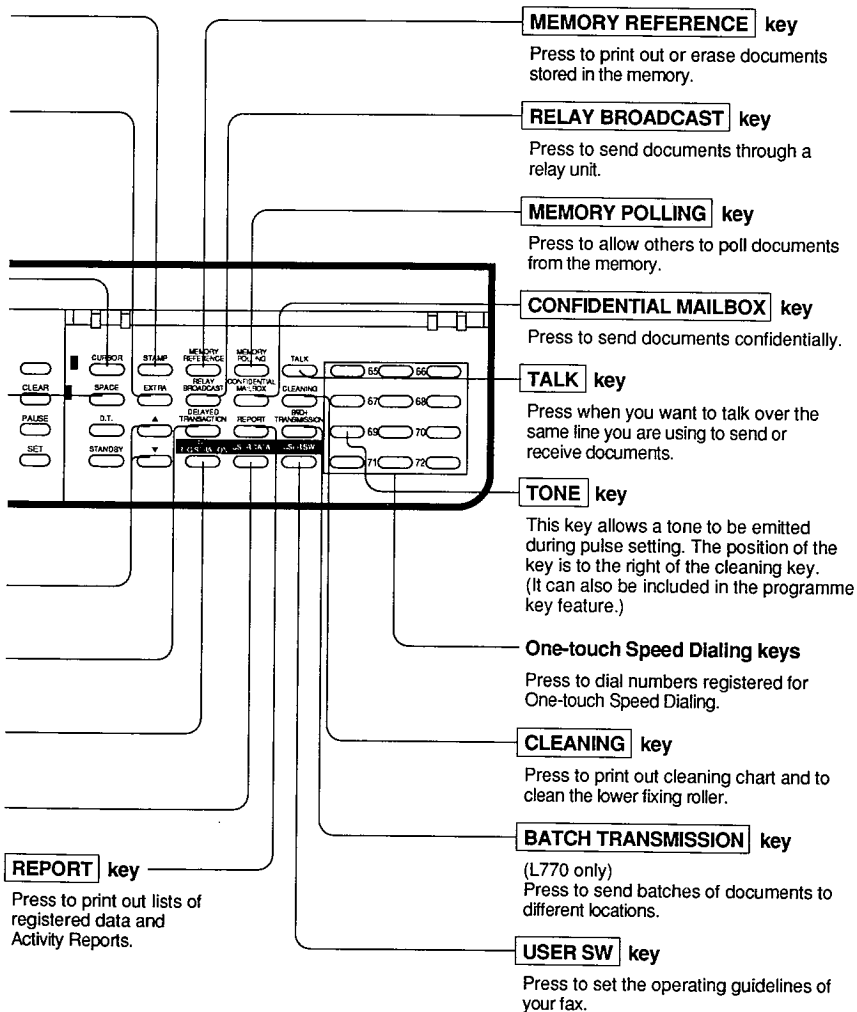


Top panel

Second panel (L770 only)

One-touch Speed Dialing keys

Press to dial numbers registered for One-touch Speed Dialing.



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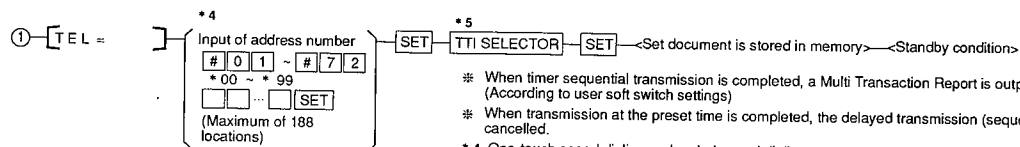
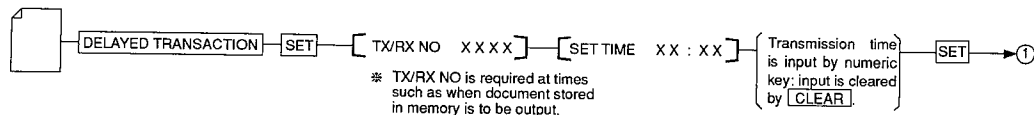
219



219



1.1.3. Delayed broadcasting (Delayed sequential broadcasting)



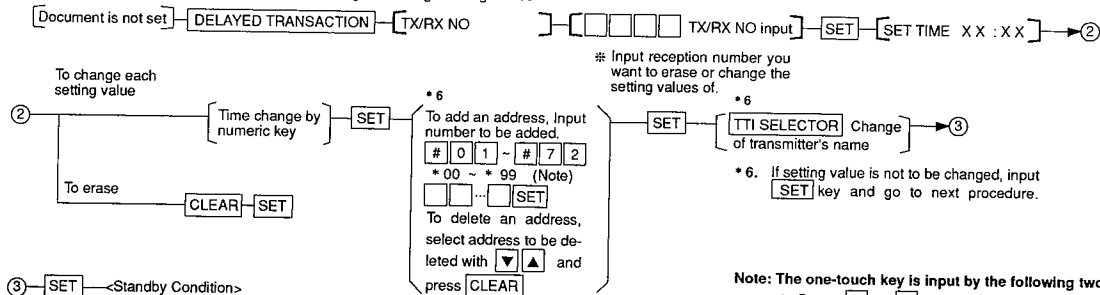
* 4 One-touch speed dialing and coded speed dialing are input from the ten key. In the case of one-touch, **#** is input beforehand.

* 5 After the **TTI SELECTOR** key has been depressed, if the ten key is depressed like **0 7**, for example, the transmitter's name with a registered code of 07 can be selected. Press **0 0** to select user's initials.

Note: One-touch key input can be done by the following 2 methods.

1. Press **01** ~ **72** for direct input using one-touch key.
2. Input using ten key. (**# 0 1** ~ **# 7 2**)

● How to erase delayed (sequential) broadcasting and change setting values

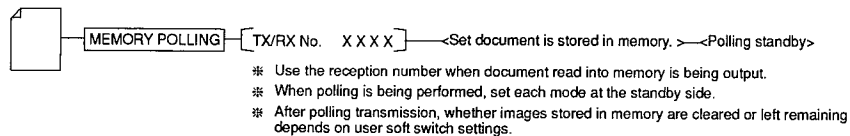


Note: The one-touch key is input by the following two methods

1. Press **01** ~ **72** for direct input using one-touch key.
2. Input using numeric key. (**# 0 1** ~ **# 7 2**)

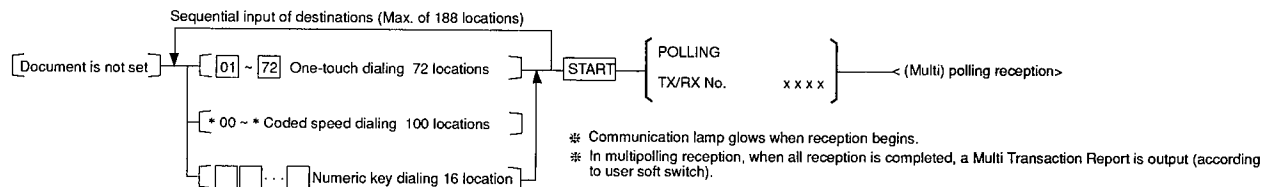
1.1.4. Polling standby

The standby side polling ID and the receiving side polling ID must match.



1.1.5. (Multi) polling reception

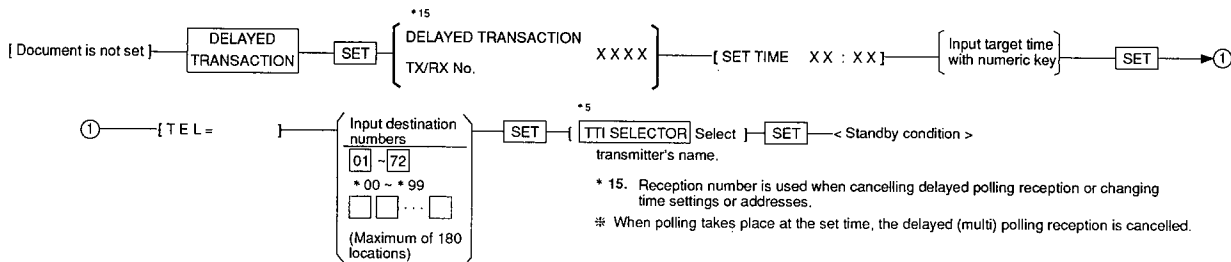
The standby side polling ID and the receiving side polling ID must match.



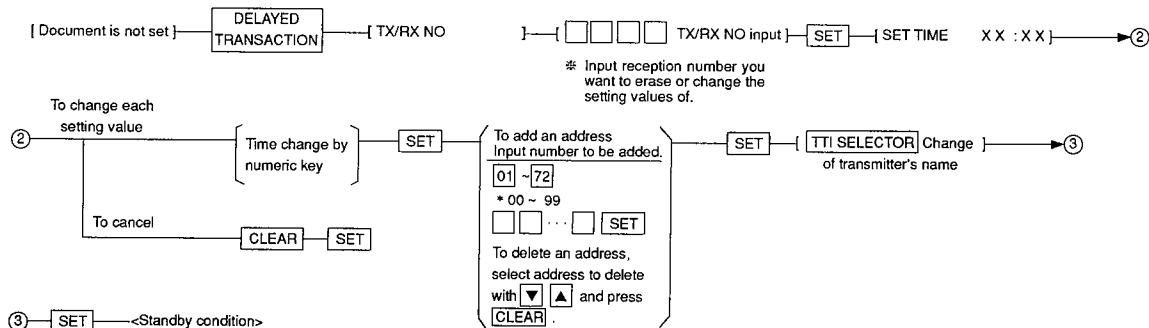
- To suspend reception

Press **MONITOR** and confirm change of LCD display, then press **STOP**.

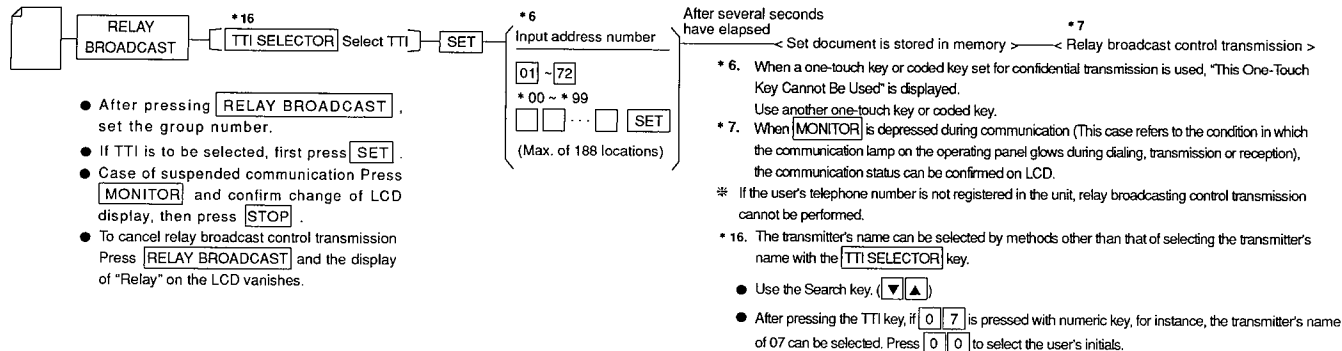
1.1.6. Delayed (Multi) polling reception



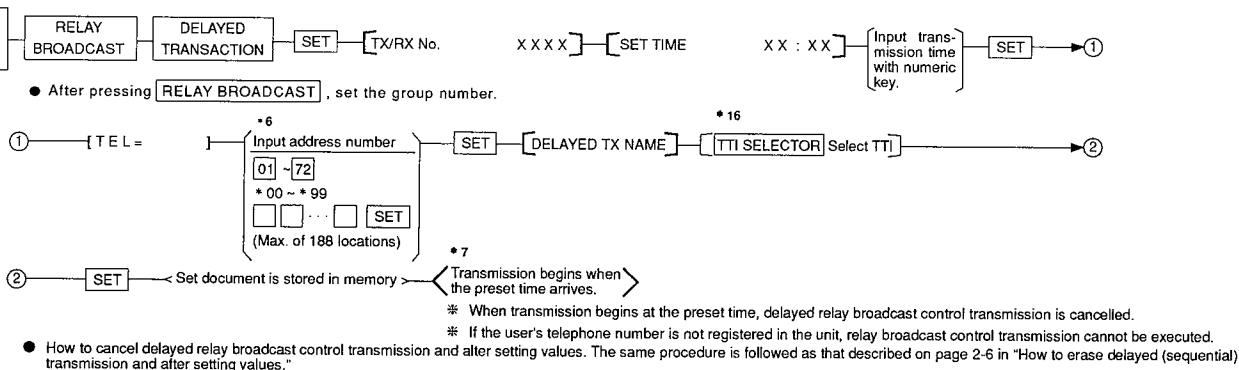
- How to cancel time (multi) polling reception and alter setting values



1.1.7. Relay broadcasting control transmission



1.1.8. Delayed relay broadcasting control transmission



1.1.9. Relay reception/relay broadcasting transmission (available with 2MByte or 4MByte DRAM) (L770 only)

By performing the following registrations, relay reception and relay broadcasting transmission can be performed.

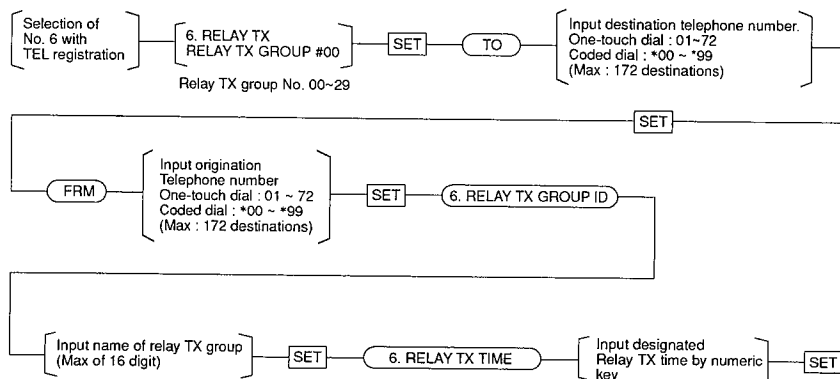
If the user's telephone number is not registered in the unit, however, relay broadcasting transmission cannot be performed.

(1) Relay TX group # registration

Telephone number registration for relay destination and relay origination (control station).

One-touch speed dialing or coded speed dialing is used for registration. Up to 72 telephone numbers can be registered by one-touch speed dialing and 100 numbers by coded dialing for a total of 172 destinations.

Details are described from page 2-50.



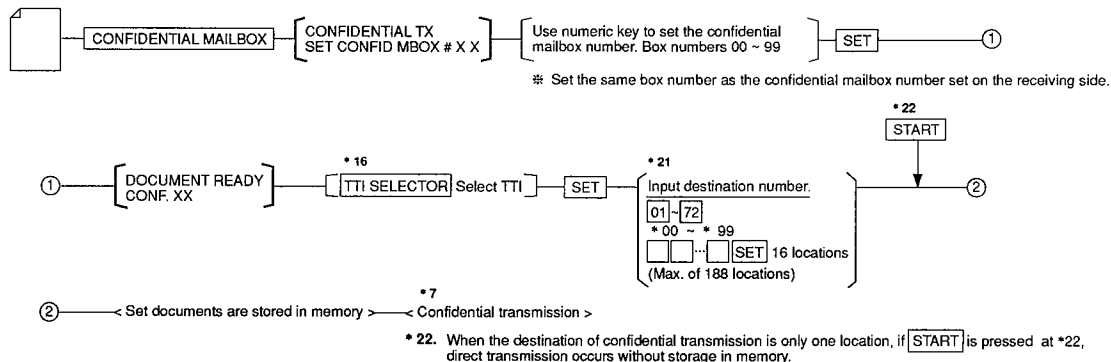
If relay broadcasting transmission is to be performed immediately, press **SET** key without registering the time.

(2) Registration of user soft switch (L770 only)

Refer to P2-17 for registration of user soft switch.

- Set the "Relay Switch A" to ON.
- Set the "Relay Switch B."
- * When Relay Switch B is left ON, all the documents received by the unit are taken as relay transmission and subjected to relay broadcast transmission at the preset time. Immediately after completion of relay broadcast transmission, set the switch at OFF.
- For output of documents received by relay, set "Relay Print" for "Output."
- Upon completion of relay broadcast transmission, set "RY B'CAST REPORT" to Yes in order to transmit relay results report to the relay broadcast control station.

1.1.10. Confidential transmission

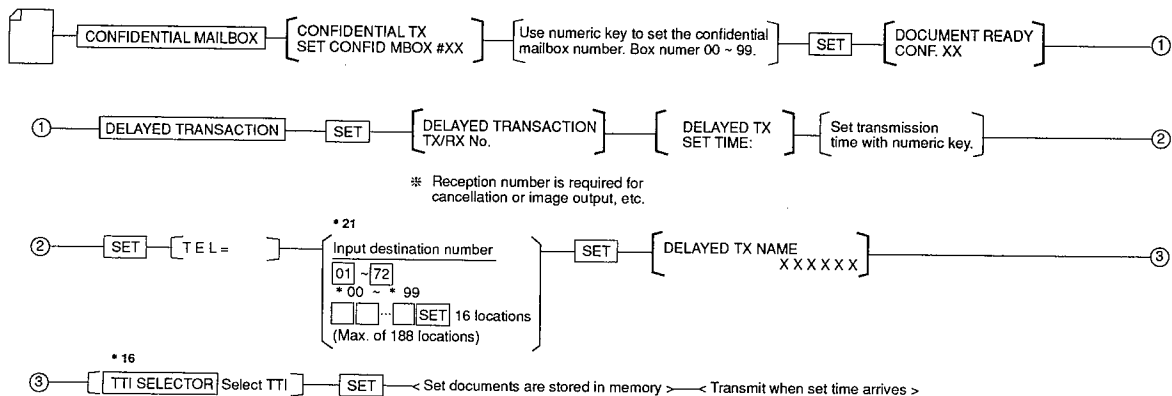


* To stop the transmission, press **MONITOR**, confirm that LCD display has changed, then press **STOP**

* To cancel confidential transmission, press **CONFIDENTIAL MAILBOX** so that "Confidential" disappears from the LCD.

* 21. When a one-touch key or a coded speed key set for relay broadcasting control transmission is used, "The one-touch key cannot be used." is displayed; use a different one-touch key or a coded speed dial key.

1.1.11. Delayed confidential transmission



※ When transmission is performed at set time, the delayed confidential mailbox transmission is cancelled.

- How to cancel delayed confidential mailbox transmission and change setting values

The same procedure is used as the procedure described on page 2-6 under "How to cancel delayed (broadcasting) transmission and change setting values".

1.1.12. Confidential reception

Confidential reception becomes possible by registering confidential mailbox number and confidential password. The confidential mailbox which stores documents received confidentially is designated by a 2-digit number. (If a document is sent from the origin of confidential transmission to a confidential mailbox number not designated, a communication error occurs.) To print out a document received confidentially, designate a confidential password which has been input with a 4-digit number. One confidential password must have been set for each confidential mailbox. However, if mailbox number 00 has been designated, the document can be printed out without entering a confidential password, so designation of such a password is unnecessary. Furthermore, each confidential mailbox can be named. This is called the confidential mailbox initials.

USER DATA — { USER DATA
1. ENTER YOUR TEL } — { Press the search key ▼, ▲ until the LCD displays as "7. Confidential mailbox." } — { USER DATA
7. CONFID.MAILBOX } — ①

① — SET — { Mailbox # 00 } — { Use numeric key to register confidential mailbox } — SET — { Password 0 0 0 0 } — ②
* 00 to 31

② — { Use numeric key to register confidential password 0000 to 9999 } — SET — { 7. CONFID.MBOX NAME } — { Confidential initials Input of confidential initials (Input by same procedure as for register of user's initials.) } — ③

③ — SET — STANDBY

● Change of confidential password and deletion of confidential mailbox

USER DATA — { USER DATA
1. ENTER YOUR TEL } — { Press the search key ▼, ▲ until LCD displays as "7. Confidential mailbox." } — { USER DATA
7. CONFID.MAILBOX } — ①

① — SET — { Mailbox # } — { Use numeric key to enter confidential mailbox number to be deleted or changed. } — SET — { Password } — ②

② — { Use numeric key to enter confidential password . } — SET — { Password 0 0 0 0 } — ③

* If password matches,
"0000" is displayed.

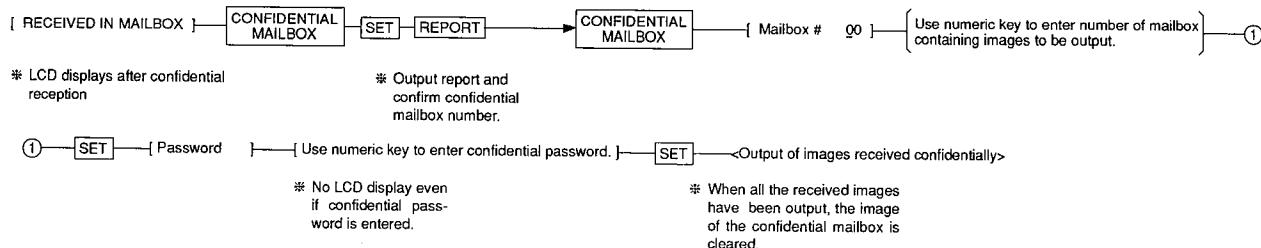
When changing confidential password

When deleting confidential mailbox

CLEAR

③ — { Use numeric key to enter new confidential password . } — SET — { 7. CONFID.MBOX NAME } — { Confidential mailbox initials can be changed. } — SET — STANDBY

1.1.13. Confidential reception data output

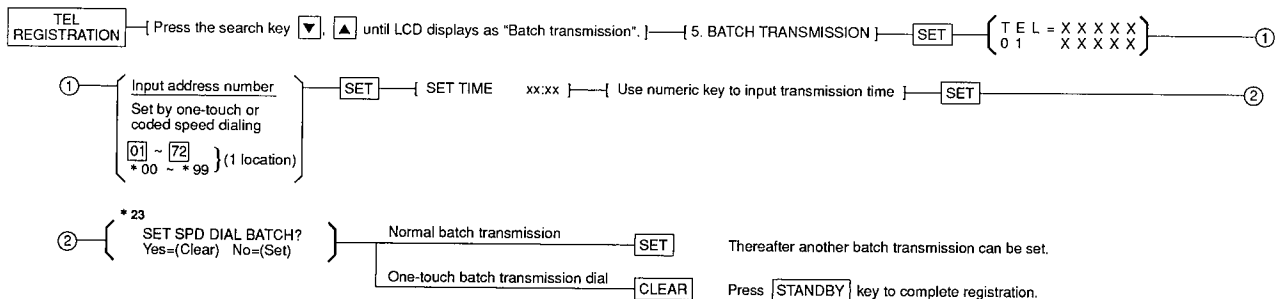


Note: Even if a document received confidentially is already in the confidential mailbox, additional documents can be received and stored in the mailbox.

1.1.14. Batch transmission (L770 only)

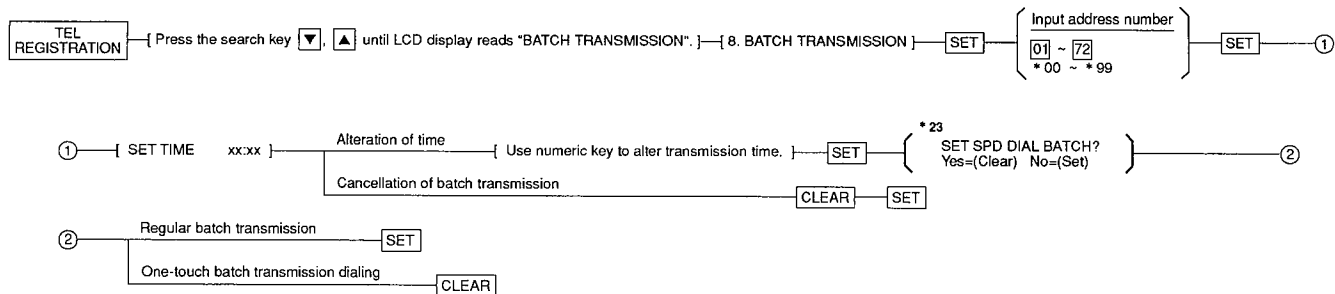
Up to 172 batch destinations can be set. When memory is used for other functions, however, only the empty sections can be used.

● Batch transmission setting

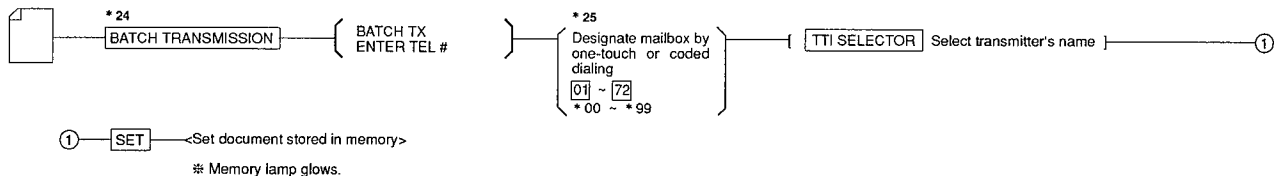


* 23 The destination of batch transmission can be registered by one-touch or coded speed dialing. When the document is set and the one-touch or coded dial is pressed, it is treated as batch transmission, and the document is stored in the memory. This is called one-touch batch transmission dialing.

● Transmission time alteration / Batch transmission cancellation



● Storage in mailbox



* 24. When using one-touch batch transmission dialing, the **BATCH TRANSMISSION** key is not to be depressed.

* 25. When a mailbox number which has not been set is designated, the LCD reads as "NO TIME SET"

When batch transmission is completed, the documents in the mailbox are cleared, but the mailbox itself can remain.

When the main power supply is turned OFF, the mailbox contents are cleared. When it is turned again to ON, "TX RESERVE MEMORY CLEAR REPORT" is print out.

1.1.15. Transmission completed stamp (Effective only for direct transmission) (L770 only)

* 26

[STAMP] — [Stamp] — <Press stamp on document completely transmitted>

* 26. If [STAMP] key is pressed once again, "Stamp" of the display disappears and the mode is cancelled.

1.1.16. Output of memory received documents

※ When memory reception occurs, the LCD reads as "RECEIVED IN MEMORY."

* 27

[RECEIVED IN MEMORY] — [Set recording paper or toner cartridge] — [START] —  Output of memory received image

* 27 At the same time the memory lamp blinks.

※ Memory reception is possible during output of reports on communication register, etc., or during copying.

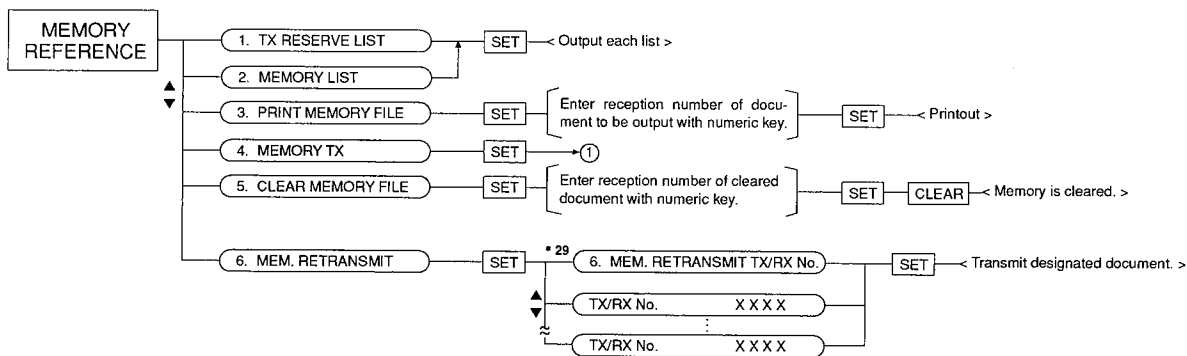
※ Polling reception into memory is possible when the memory is enough.

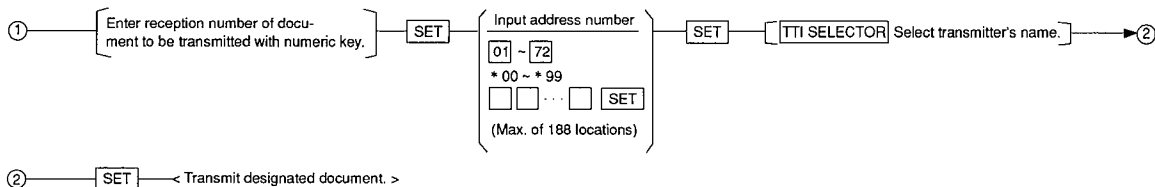
※ Upon completion of memory reception, memory contents are cleared when the power is turned to OFF.

1.1.17. Memory reference function

The memory reference mode is established by pressing the **MEMORY REFERENCE** key. The memory reference mode contains the following items. In executing items (2) to (5), the TX/RX No. of the destinated memory must be input.

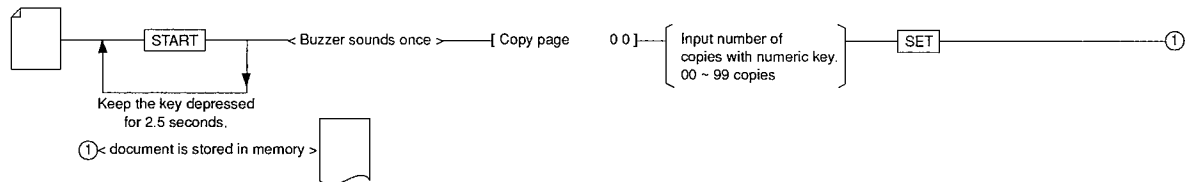
- (1) TX reservation list
This list is output when you want to check such things as the following: transmission reservation or delayed transmission, how many documents not transmitted are stored in memory, how long will it take before your document is transmitted, etc.
- (2) Memory list
Output when you want to confirm how much image memory is being used and for what purposes, or when you have forgotten the TX/RX No.
- (3) Print memory file
Output of image read into memory. (Effective only for output of images reserved for transmission)
- (4) Memory transmission
Used to retransmit image which has not transmitted with memory TX for some reasons.
- (5) Clear memory file
Image stored in memory are cleared. Memory reception documents, however, are not cleared by this operation.
Image can be cleared in redial waiting status.
- (6) Memory retransmission
Used for retransmission of images subjected to transmission error.





- * 29. Select reception number of transmitted error with  ,  key.
If there is no transmission error, reception number is not displayed.

1.1.18. Memory (multi) copy

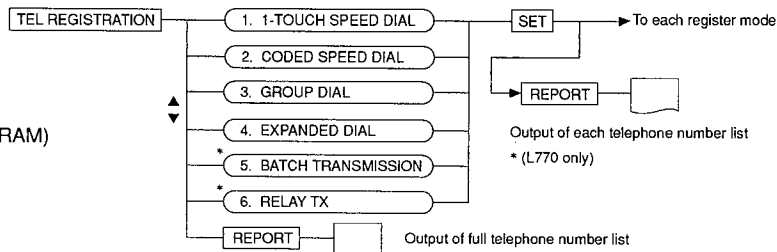


Copy image output
Copies are output whenever each page of document is stored in memory.

2-20

When the **TEL REGISTRATION** key is pressed, the TEL Registration mode is established, and the following items can be registered.

- (1) One-touch speed dialing
- (2) Coded speed dialing
- (3) Group dialing
- (4) Expanded dialing
- (5) Batch transmission
- (6) Relay TX (only with optional DRAM)



The flowchart illustrates the steps to set the telephone number and TX mode:

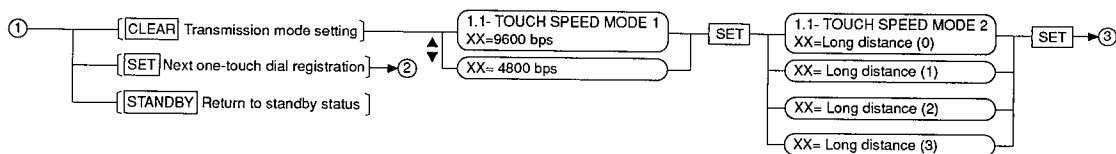
- Select No. 1 with TEL register** (Step 2)
- 1. 1-TOUCH SPEED DIAL 01 =** (Step 1)
- 1. 1-TOUCH SPEED DIAL 02 =** (Step 2)
- 1. 1-TOUCH SPEED DIAL 72 =** (Step 3)
- Input TEL No. (Max. of 38 digits/Display of 16 digits)** (Step 4)
- SET** (Button)
- Input initials of partner (Max. of 38 digits/Display of 16 digits)**
- SET** (Button)
- NEED TO SET TX MODE? Yes=(Clear) No=(Set)**
- 1** (End)

*** 1** If the PAUSE key is depressed during a telephone number, there is a wait for 2 seconds; if depressed at the end of a telephone no., there is a wait for ten seconds. The PAUSE key and SPACE key can be input up to a maximum of 38 digits.

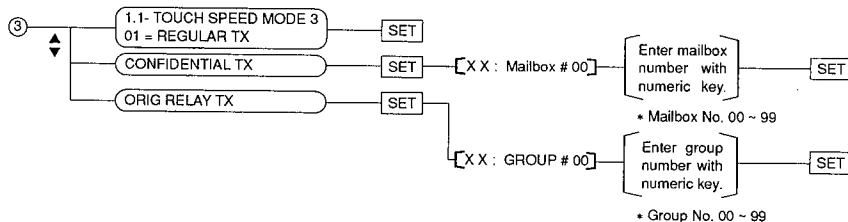
*** Press CLEAR when changing TEL No.**

*** Input by the same procedure as for register of user initials.**

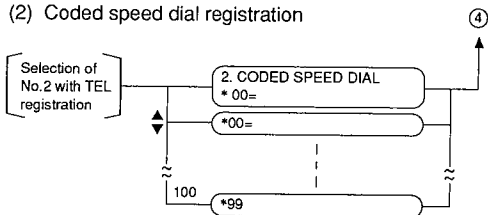
*** One-touch SPD is selected by direct input of the numeric key after ∇ , $\blacktriangle$ and # keys.**



* Long distance (0) = No echo countermeasure (regular communication)
 Long distance (1) = Echo countermeasure (Ignore first DIS)
 Long distance (2) = Echo countermeasure (First DIS crushing with 1650Hz)
 Long distance (3) = Echo countermeasure (First DIS crushing with 1850Hz)

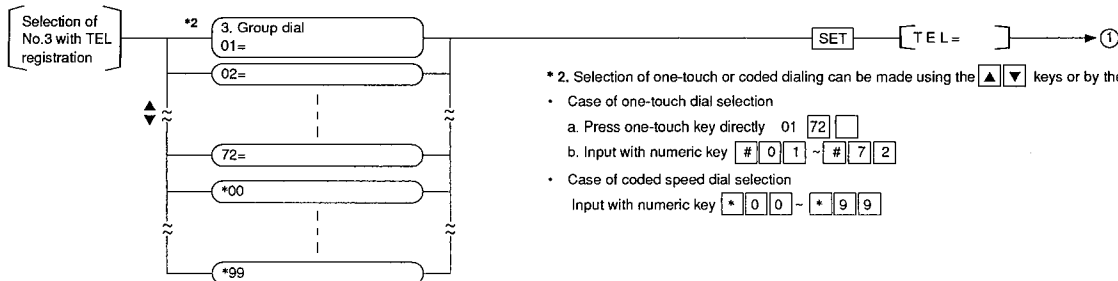


(2) Coded speed dial registration



Thereafter, the same operation as for one-touch dial registration.

(3) Group dial registration



* Select one-touch or coded speed dial with nothing else registered.

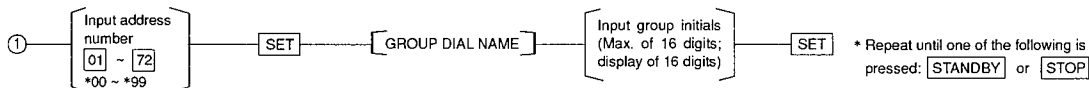
* 2. Selection of one-touch or coded dialing can be made using the keys or by the following method.

• Case of one-touch dial selection

- a. Press one-touch key directly 01
- b. Input with numeric key ~

• Case of coded speed dial selection

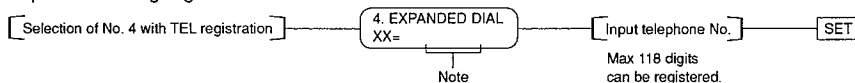
Input with numeric key ~



* Maximum of 171 addresses in one group

* Input by the same procedure as for registering user initials.

(4) Expanded dialing registration



Max 118 digits
can be registered.

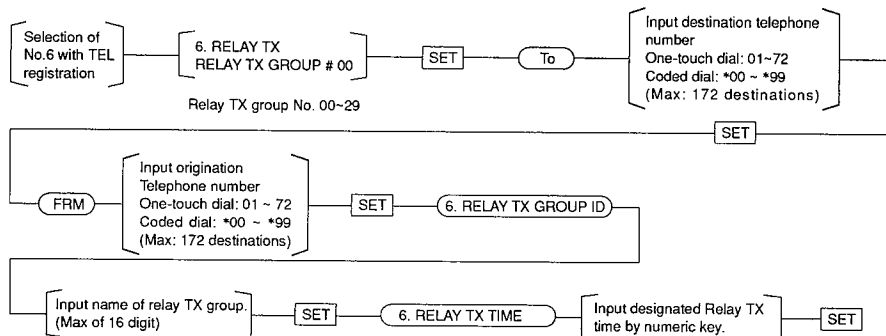
Note: Display message

	Number is already registered.
	Group dialing is already registered.
	Expanded Dialing is already registered.
	Nothing is registered.

(5) Batch transmission (Batch-transmission setting) (L770 only)

Refer to page 2-15.

(6) Relay TX (Available with 2 MByte or 4 MByte DRAM) (L770 only)

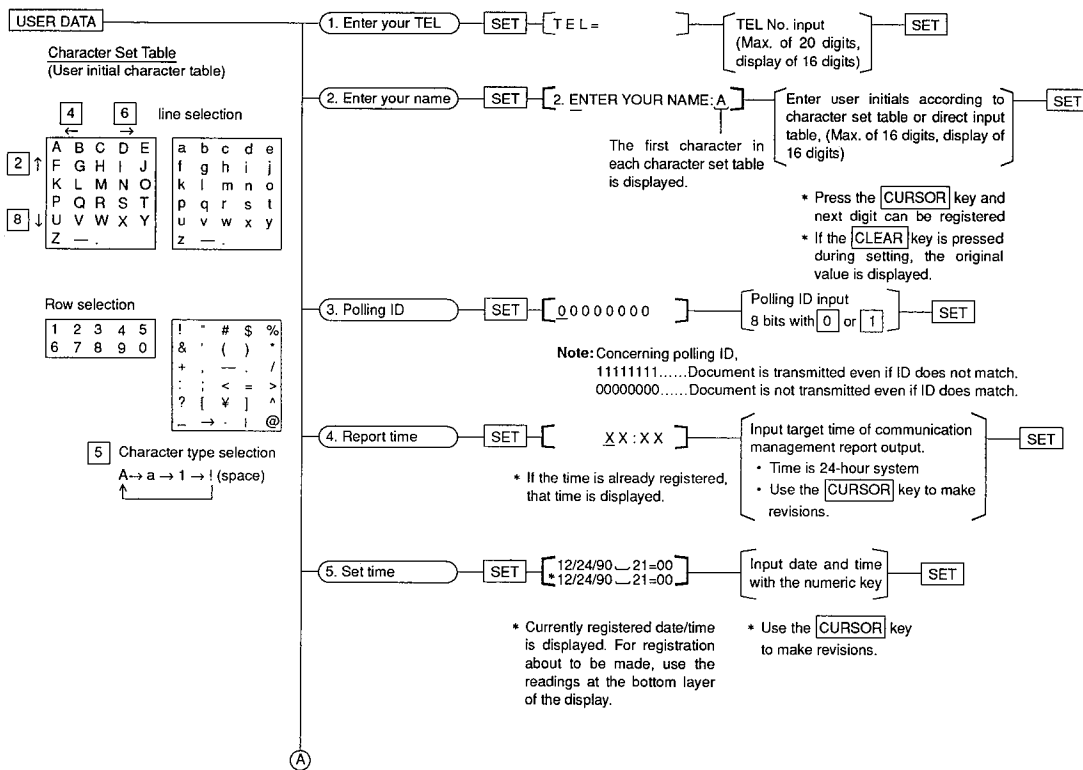


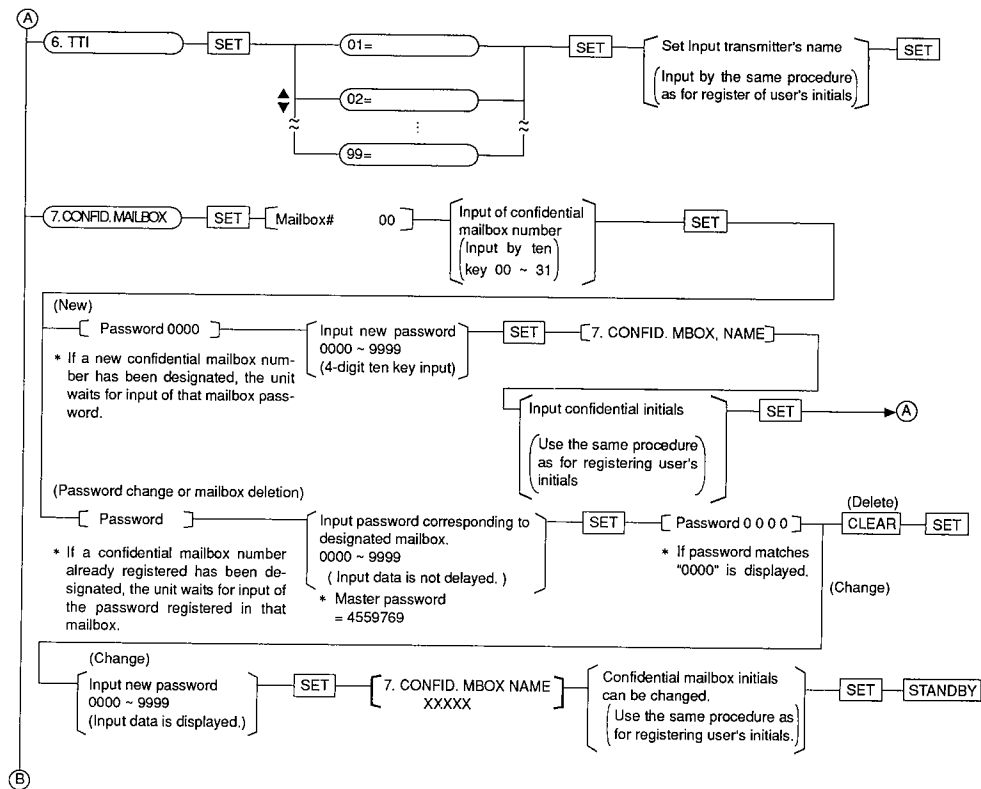
If relay broadcasting transmission should be performed immediately, press **SET** key without registering the time.

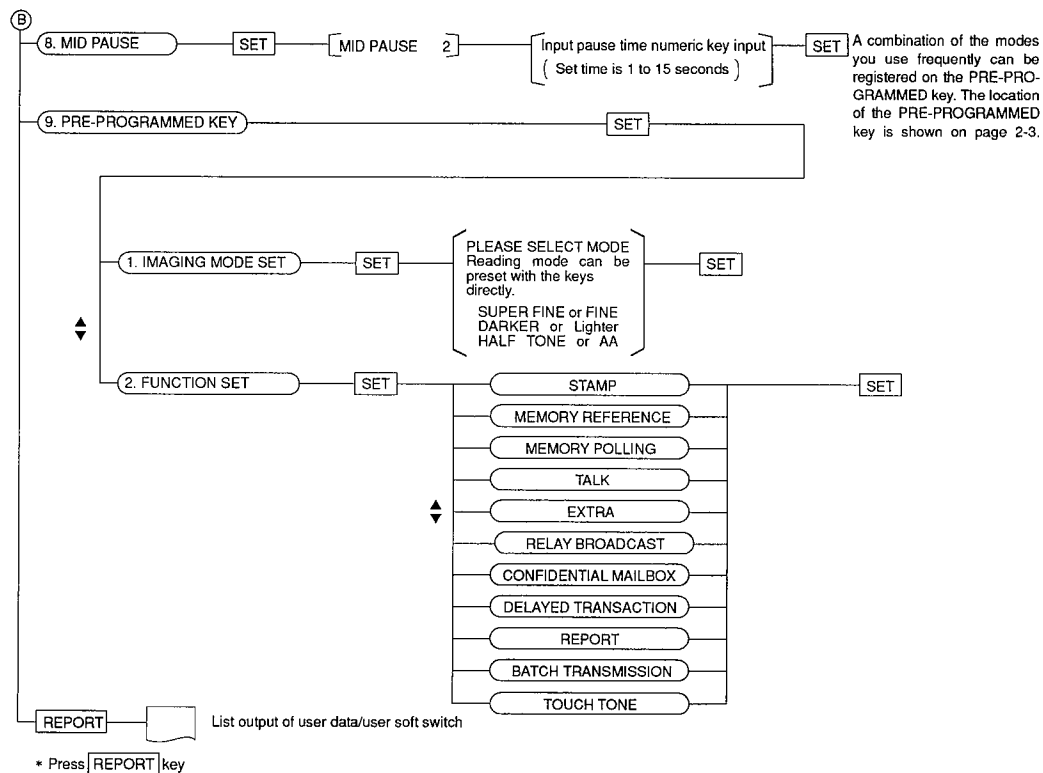
1.2.2. User data registration

The user data register mode is assumed by pressing the USER DATA key, and the following items can be registered.

- | | |
|--|---|
| (1) User Tel number. | (6) Name of transmitter |
| (2) User initials. | (7) Confidential mailbox |
| (3) Polling ID. | (8) Pause time (Pause time set between telephone numbers can be changed.) |
| (4) Communication management report output time. | (9) PRE-PROGRAMMED KEY |
| (5) Date/Time. | |







Direct Character Input Table

(For setting USER'S ID, TTI or CONFID. MBOX NAME)

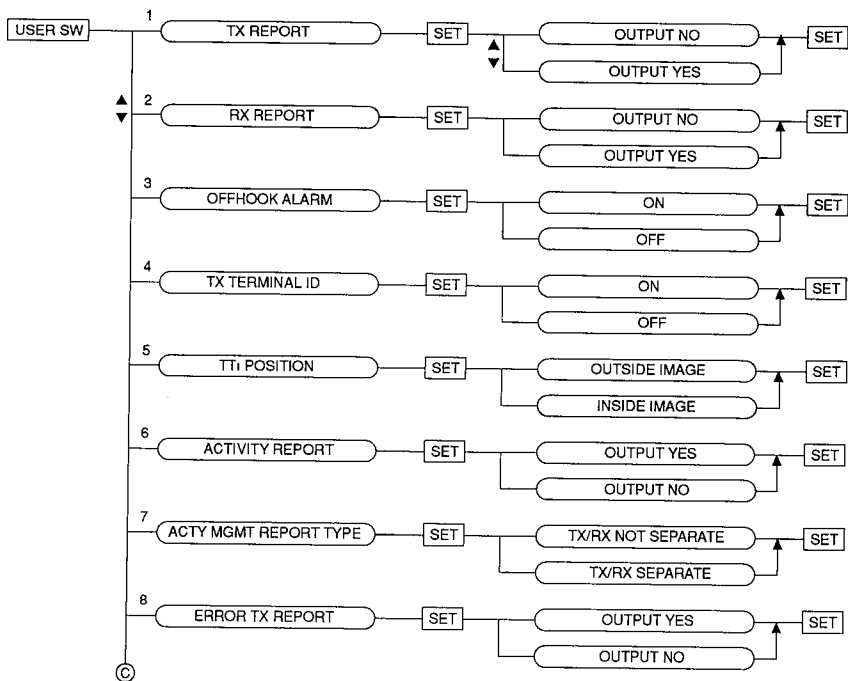
Aa!	Bb"	Cc\$	Dd%	Ee&	Ff'	Gg(	Hh)
01	02	03	04	05	06	07	08
Ii+	Jj,	Kk—	Ll.	Mm/	Nn:	Oo;	Pp<
09	10	11	12	13	14	15	16
Qq=	Rr>	Ss?	Tt[	Uu¥	Vv]	Ww^	Xx-
17	18	19	20	21	22	23	24
Yy→	Zz'	— —	..@	Table change	← Shift	Space	Shift →
25	26	27	28	29	30	31	32

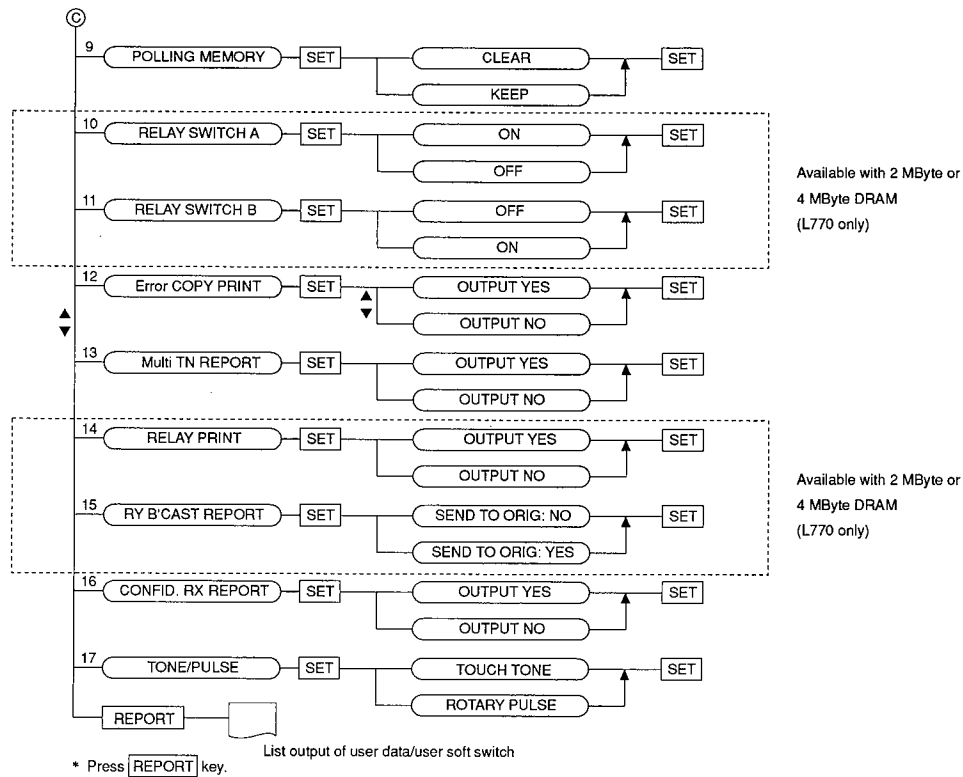
1.2.3. User soft switch registration

The user soft switch registration mode is established by pressing the **USER SOFT** switch key. The following items can be registered.

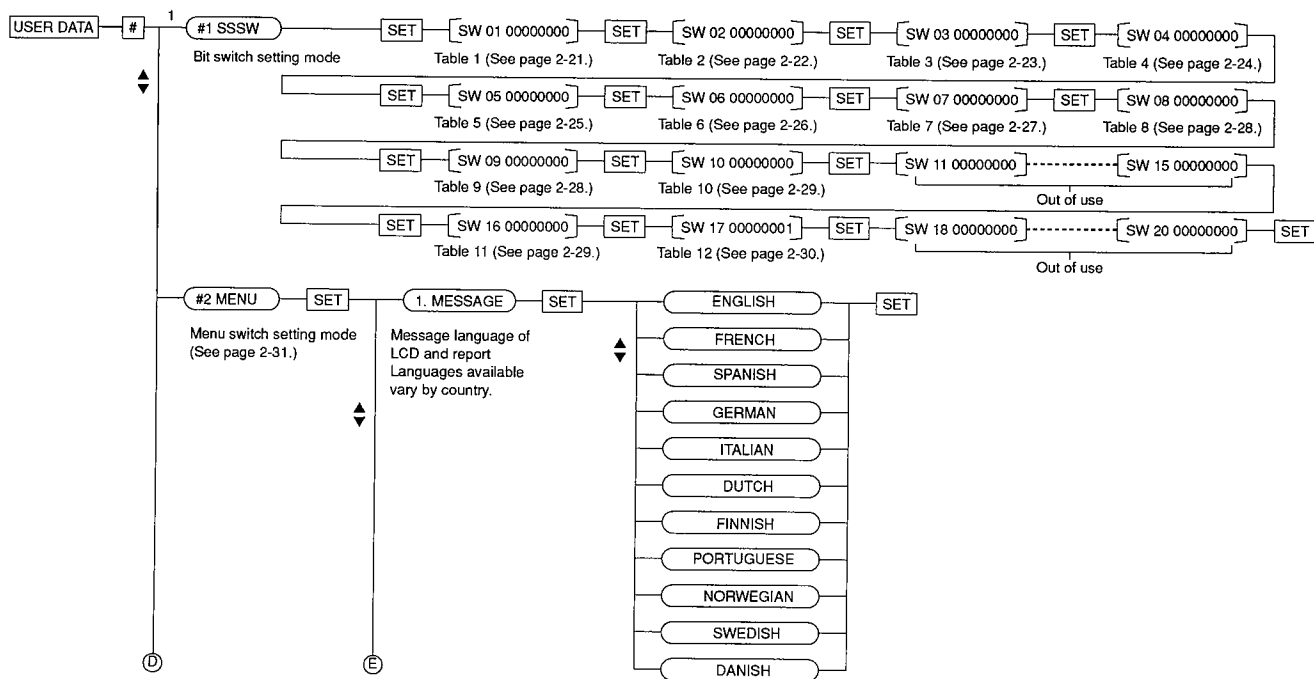
1)	Communication results record (transmission results report)	Yes/*No
2)	Communication results report (reception results report)	Yes/*No
3)	Off hook alarm	Off/*On
4)	Print of transmitter's terminal ID	No/*Yes
5)	Position of transmitter's terminal ID	Inside image/*Outside image
6)	Automatic output of activity report upon 40 communications of communication management report	No/*Yes
7)	Activity management report type; TX/RX SEPARATE	Yes/*No
8)	Output of undelivered notices (error transmission report)	No/*Yes
9)	Erase image memory after polling transmission (Polling memory)	No/*Yes
10)	Relay switch for relay control function fax (relay switch A)	Relay/*No relay (ON/OFF) (L770 only)
11)	Relay switch for non-relay control function fax (relay switch B)	Yes/*No (ON/OFF) (L770 only)
12)	Output undelivered images in undelivered notices (error image)	No/*Yes
13)	Multi-communication results report	No/*Yes
14)	Output images received by relay during relay broadcasting (relay print)	No/*Yes (L770 only)
15)	Transmit back relay results report to relay broadcast control unit (relay results)	Yes/*No (L770 only)
16)	Confidential reception report	No/*Yes
17)	Line: tone/pulse switchover	Pulse/*Tone

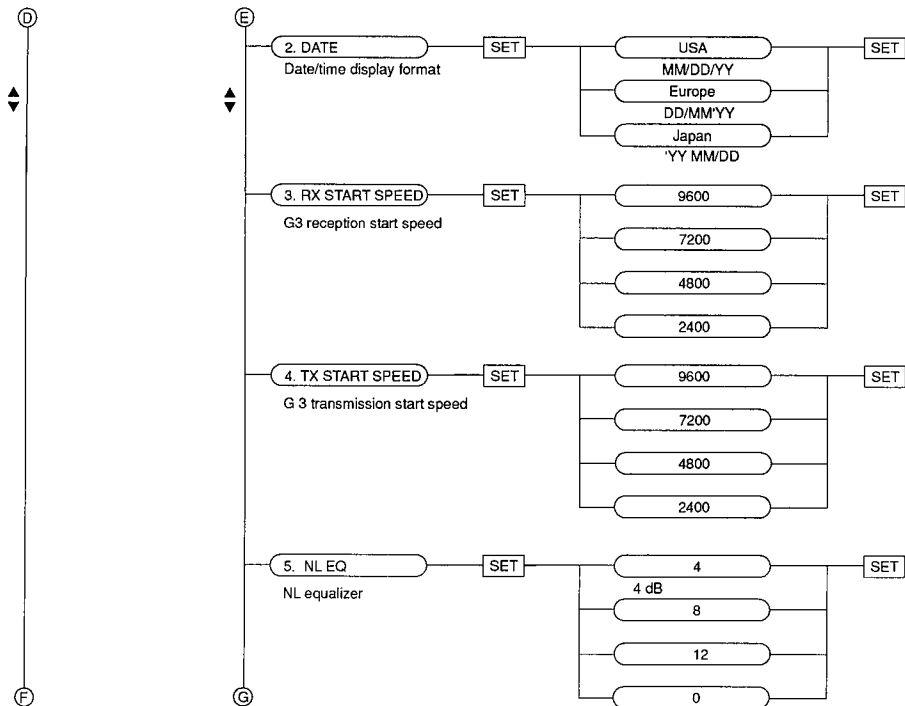
*° mark denotes factory settings.

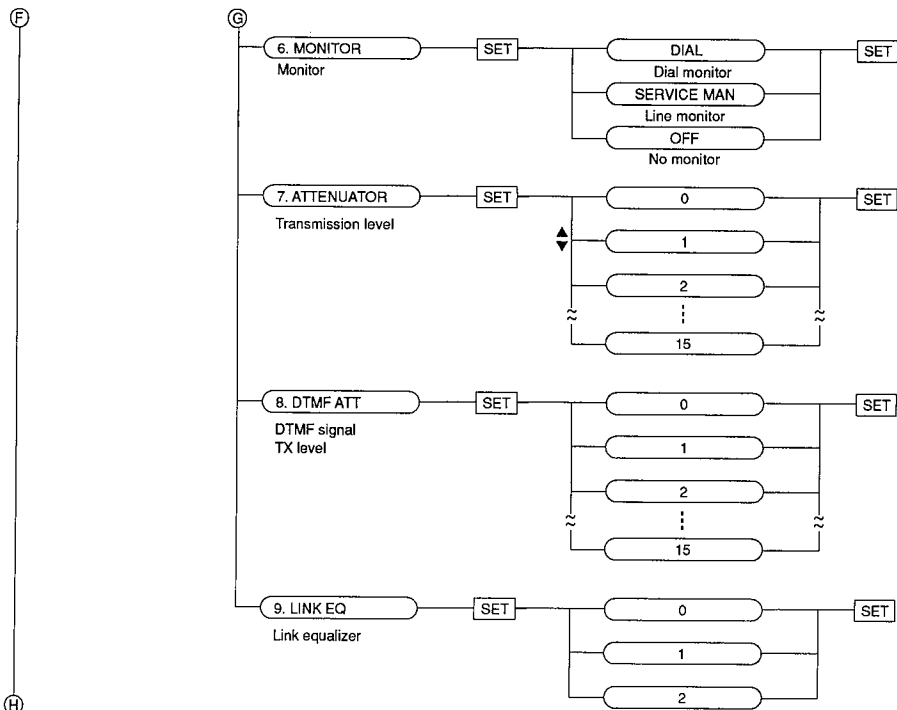


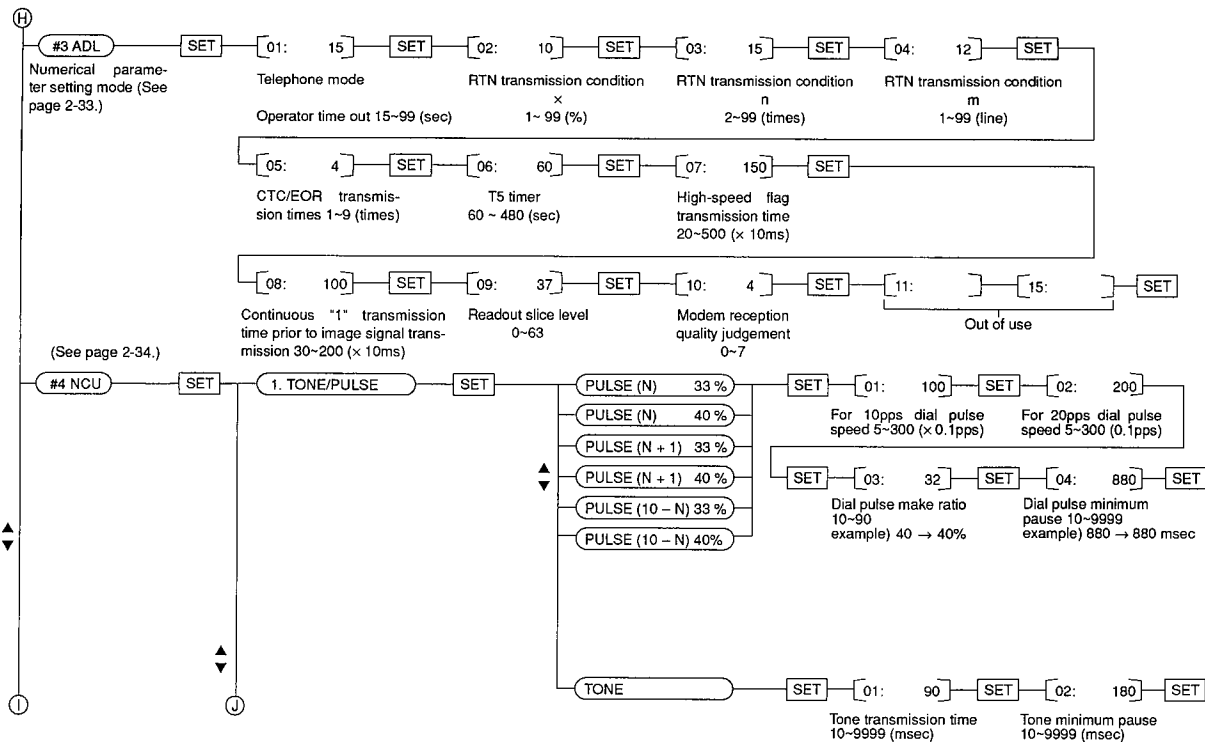


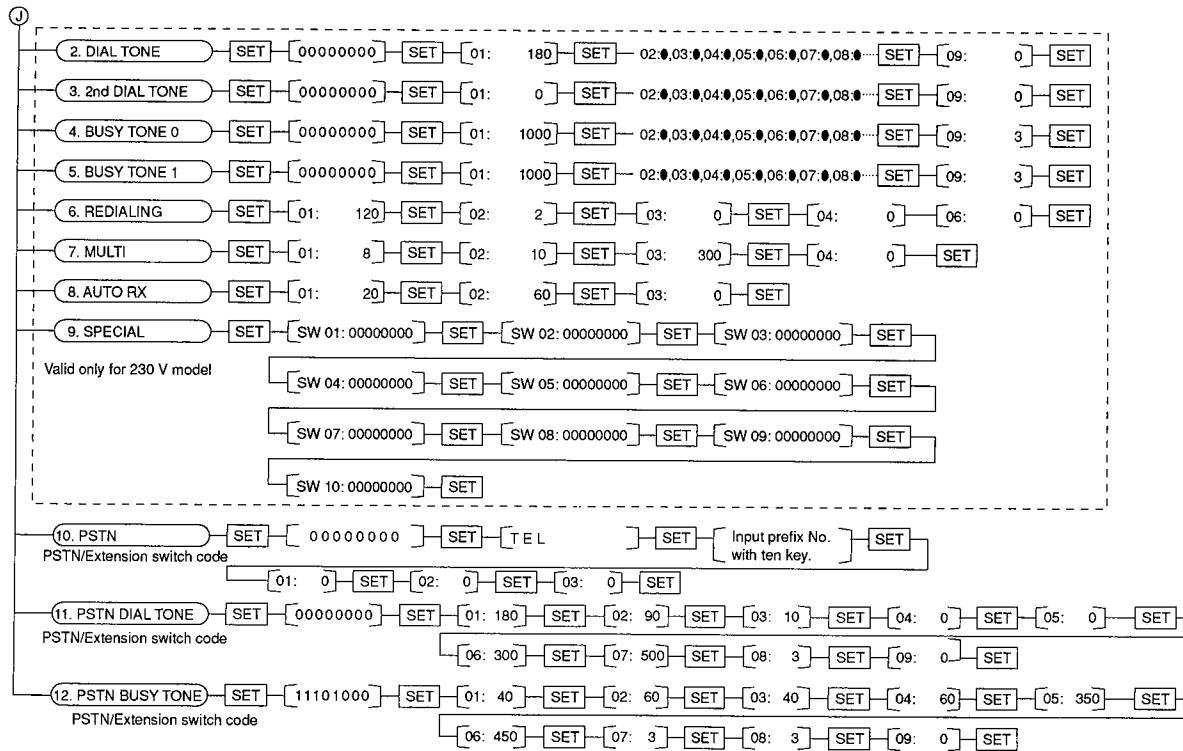
1.2.4. Service soft switch registration



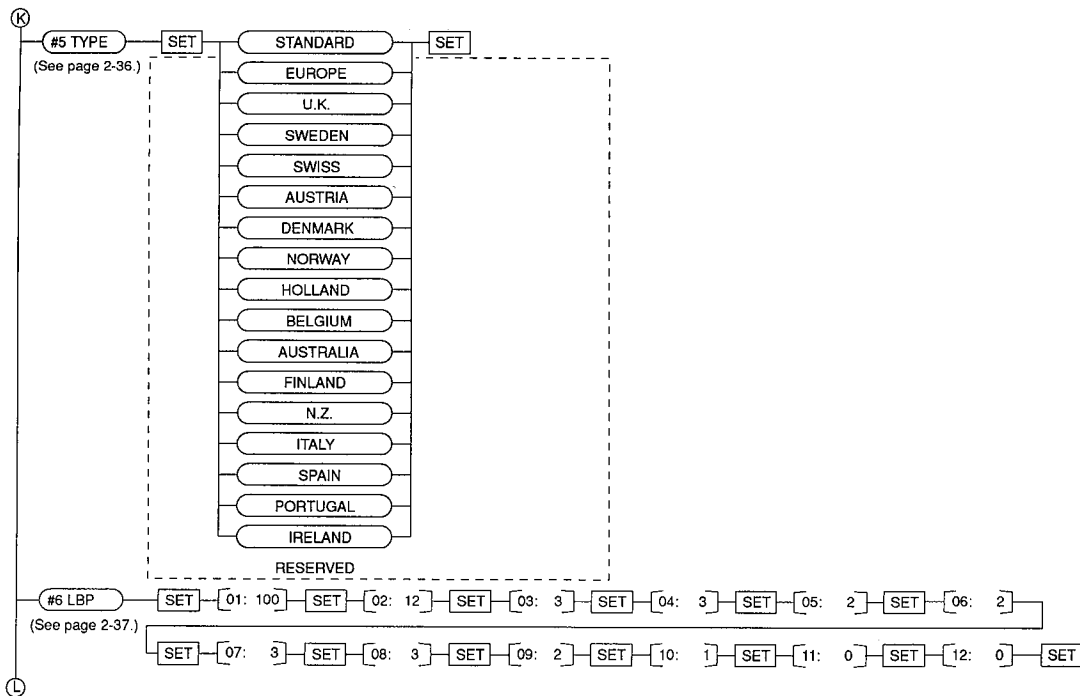


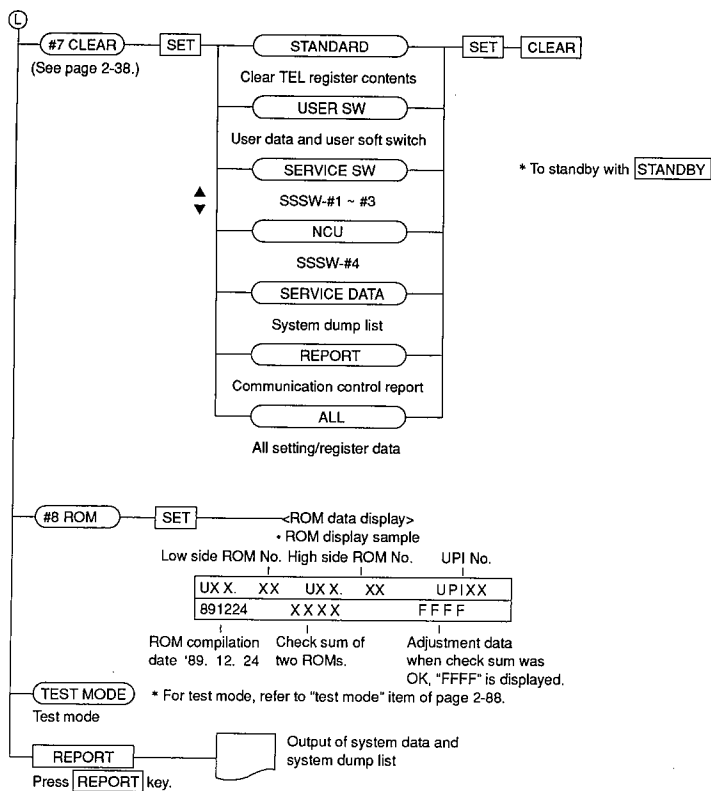






* For item (parameter) inside [], parameter values automatically set by type according to the setting of <TYPE>. So do not change these values except in special cases.





Service Soft Switch (#1)

# 1	
SW01	<u>0</u> 0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-1

[#1] SW01				
Bit No.	Function	1	0	Factory setting
0	Error code for serviceman	Output	Not output	0
1	Error memory dump	Output	Not output	0
2	Switch from pulse dialing to tone dialing by ☐ * key.	Yes	No	0
3	Switch from pulse dialing to tone dialing by ☐ # key.	Yes	No	0
4	Print memory file	All pages	1st page	0
5	Mark output on header (TTI)	FAX		0
6	Pseudo bell sound frequency for operator call	high	normal	0
7	Out of use			0

# 1	
SW02	0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-2

[#1] SW02				
Bit No.	Function	1	0	Factory setting
0	Memory reception	No	Yes	0 Note 1
1	Time sharing dialing	No	Yes	0 Note 2
2	1-page time out (Note 5)	64 min.	32 min.	0
3	CNG output upon auto dialing	No	Yes	0
4	Cancel of multi-communication	No	Yes	0 Note 3
5	Out of use			0
6	Redial conditions	Only upon T1 time over	After every error transmission other than RTN reception error	0 Note 4
7	Out of use			0

Note 1: When bit 0 is "1"

When printing becomes impossible during communication, memory reception is performed.

When printing is impossible before communication, memory reception is not performed.

Note 2: The method is different from the conventional models; FAX-705/750 etc. Refer to page 2-44 for details.

Note 3: Cancel of multi-communication

Multi-communication, operation is cancelled by **MONITOR** + **STOP**

(Confirm change of LCD display while pressing down on **MONITOR** key, then press **STOP** key), the remaining destinations are cancelled when the bit 4 is set to "0".

Note 4: Redial conditions

•When "0" is set during memory transmission, all error transmissions except RTN reception errors can be redialed.

•When "1" is set

Redialing is performed after T1 time over. In other words, redialing is performed only when the other party has not been recognized as a facsimile (including busy line).

Note 5: For the 230V model, the one-page timeout can be set with special switch SW08.

# 1	
SW03	0 0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-3

[#1] SW03				
Bit No.	Function	1	0	Factory setting
0	Out of use			0
1	EPT attached to V29 modem signal	Yes	No	0 Note 1
2	Out of use			0
3	Out of use			0
4	Ignore first DIS	Yes	No	0
5	Crush first DIS	Yes	No	0
6	DIS crushing tone frequency	1850Hz	1650Hz	0
7	1080Hz before CED	Output	Not output	0

Note 1: EPT = Echo Protect Tone

The V29 Echo Protect Tone serves to enhance modem convergence by transmitting an unmodulated carrier of $1700 \pm 1\text{Hz}$ about 200 ms before training at V29 (9600bps/ 7200pbs).

Concerning V27ter, transmission of unmodulated carrier is regulated by CCITT but V29 is not regulated.

By setting this bit to "1" the unit transmits unmodulated carrier by V29

# 1									
SW04	0	0	0	0	0	0	0	0	0
	7	6	5	4	3	2	1	0	

Chart 1-2-4

[#1] SW04				
Bit No.	Function	1	0	Factory setting
0	When an error occurs during memory TX (other than batch TX), the image in memory will be erased.	Yes	No	0 Note 1
* 1	When an error occurs during batch TX, the image in memory will be erased.	Yes	No	0 Note 2
2	Out of use			0
* 3	Report output after batch transmission.	Yes	No	0
4	Forced CED transmission during manual reception (For F-net in Japan)	Yes	No	0 Note 3
* 5	Relay broadcasting for all pages including RTN page.	No	Yes	0 Note 4
* 6	Relay control by confidential mailbox.	Yes	No	0 Note 4
* 7	Relay broadcasting excluding RTN page.	Yes	No	0 Note 4

Note 1: Undelivered image clear for general memory transmission (Bit 0)
When the bit is "1" if memory transmission does not complete for some errors, the undelivered image in the memory is cleared. When the bit is "0", it is not cleared.

Note 2: Undelivered image clear for batch transmission (Bit 1)
When the bit is "1" if batch transmission does not complete for some errors, the undelivered image in the memory is cleared. When the bit is "0", it is not cleared.

Note 3: During regular use, set this bit at the factory setting of "0."

Note 4: Relay broadcasting capability (Bit 5 to 7)
(Available with 2MByte or 4MByte DRAM)
Bit 5 is valid when Bit 7 is "1".

* L760: Out of use

# 1	
SW06	0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-6

[#1] SW06				
Bit No.	Function	1	0	Factory setting
0	Document transfer from the D.E.S. sensor to the prescan position	No	Yes	0 Note 1
1	Prescan before each scanning other than when power is first switched ON	No	Yes	0 Note 1
2	Edge emphasis	No	Yes	0 Note 1
3	ABC width in half-tone	B	A	0 Note 1
4	Restrict document length	No	Yes	0 Note 2
5	Out of use			0
6	UHQ noise filter	OFF	ON	0 Notes 1 & 3
7	Prohibit MONITOR + STOP	Yes	No	0 Note 4

Note 1: Set this bit as the factory setting of "0."

Note 2: Bit 2

When the bit is set at "0", if the document length exceeds 1.5m, a document check error results. With the bit at "1" there is no restriction.

Note 3: Bit 6

The filter eliminates small black printing dots in UHQ mode.

Note 4: Pressing **MONITOR** and **STOP** are methods for stopping on-line operation. When this bit (bit 7) is set at "1", it is impossible to stop on-line operation.

# 1	
SW07	<u>0</u> 0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-7

[#1] SW07				
Bit No.	Function	1	0	Factory setting
0	Transmission of DTMF code during initial identification	Possible	Impossible	0 Note 1
1	Format of DTMF code transmission by ten key	One digit at a time	Batch	0 Notes 1 & 2
2	Polling RX is performed in forced monitor mode	Yes	No	0
3	Out of use			0
* 4	Stamp is printed after memory storage	Yes	No	0
5	Out of use			0
6	Closed network reception	Yes	No	0 Note 1
7	Closed network transmission	Yes	No	0 Note 1

Note 1: Set this bit as the factory setting of "0."

Note 2: This bit is effective only when bit 0 is set to "1."

* L 760: Out of use

# 1									
SW08									
	0	0	0	0	0	0	0	0	0
	7	6	5	4	3	2	1	0	

Chart 1-2-8

[#1] SW08				
Bit No.	Function	1	0	Factory setting
0	ID for closed network			0
1				0
2				0
3				0
4				0
5				0
6				0
7				0

# 1									
SW09									
	0	0	0	0	0	0	0	0	0
	7	6	5	4	3	2	1	0	

Chart 1-2-9

[#1] SW09				
Bit No.	Function	1	0	Factory setting
0	ECM transmission frame size	64byte	256byte	0 Notes 1 & 2
1	Upon ECM transmission, after EOR transmission and ERR reception, the next image is transmitted.	Yes	No	0 Notes 1 & 2
2	Out of use			0
3	Out of use			0
4	Out of use			0
5	Out of use			0
6	Out of use			0
7	ECM protocol	No	Yes	0 Note 1

Note 1: This bit is a service soft switch regarding ECM.

Note 2: Set this bit as the factory setting of "0."

# 1	
SW10	0 0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-10

[#1] SW10				
Bit No.	Function	1	0	Factory setting
0	Out of use			0
1	Out of use			0
2	Forced direct transmission	Yes	No	0 Note 1
3	Out of use			0
4	Resolution can be changed when copying	Yes	No	0
5	Out of use			0
6	Out of use			0
7	Out of use			0

Note 1: When the bit is set to "1", non-delayed one-destination transmission is performed as direct transmission.

SW11 to SW15 are omitted because they are reserved.

# 1	
SW16	0 0 0 0 0 0 0 1
	7 6 5 4 3 2 1 0

Chart 1-2-11

[#1] SW16				
Bit No.	Function	1	0	Factory setting
0	Reduction printing on the smaller recording paper.	Yes	No	1
1	Out of use			0
2	Out of use			0
3	Out of use			0
4	"Half tone" + "Super fine"	Yes	No	0
5	90% reduction	No	Yes	0
6	Printing when toner shortage	Yes	No	0
7	Error report output when STOP key is pressed.	No	Yes	0

# 1	
SW17	0 0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-12

[#1] SW017				
Bit No.	Function	1	0	Factory setting
0	Prohibit legal size on the sub-tray	Yes	No	0
1	Out of use			0
2	Out of use			0
3	Out of use			0
4	Clear counter when printer cover is open.	No	Yes	0 Note 1
5	When printing other party's Tel number on the Activity Report, give priority to either a) the number registered in host machine, or b) the other party's own CSI.	b)	a)	0 Note 2
6	Continuous polling	Yes	No	0 Note 3
7	Fixed time polling	Yes	No	0 Note 3

Note 1: When this bit is 1, the value of the print counter listed in the system dump list is not cleared until service mode All Clear, or Report Clear are done, and the counter continues to count each time a print out is made. When this bit is 0, (default), the value is cleared by opening the cover.

Note 2: When this bit is 1, if CSI is received from the other party's machine, the CSI data from that party is used when printing the telephone number in the Activity Report. When the bit is 0, (default), the called number is given priority, and CSI is used only when no call is made.

Note 3: 1) Delayed polling (bit 6=0, bit 7=0)
Activates at set time, and stops after one round. Stops completely if the **STOP** key is pressed.

2) Continuous polling (bit 6=1, bit 7=0)
Once registered, it activates every day at the set time, and completes one round. Pressing the **STOP** key cancels one round, but it will continue the next day as before.

3) Fixed time polling (bit 6=0, bit 7=1)
Activates at the set time, and continues in definitely. Pressing the **STOP** key stops the operation completely.

Service Soft Switch (#2)

- Menu Switch Setting Mode

2
MESSAGE

The above display appears when (#2) is selected and the menu switch setting mode is assumed. When the   keys are depressed, each item appears in sequence. The setting mode of the item on display is established by the **[SET]** key. Chart 1-2-11 gives a list of each menu switch.

Chart 1-2-14

[#2] Menu switch setting mode				
Item name	Selection details	Selection Item	Remark	Factory setting
MESSAGE	Selection of LCD and report language	English, French, Spanish, German, Italians, Dutch, Finnish, Portuguese, Norwegian, Swedish, Danish	Selectable languages vary with country	English
DATE	Selection of date display format	Europe Japan USA	'YYMM/DD MM/DD/YY DD/MM'YY	Europe (230V model) USA (120V model)
RX START SPEED	G3 reception start speed	9600 7200 4800 2400	9600bps 7200bps 4800bps 2400bps	9600bps
TX START SPEED	G3 transmission start speed	9600 7200 4800 2400	9600bps 7200bps 4800bps 2400bps	9600bps
NLEQ	NL equalizer	0 4 8 12	0 dB 4 dB 8 dB 12 dB	4 dB
MONITOR	Dial and line monitor	DIAL SERVICEMAN OFF	Dial monitor Line monitor No monitor	DIAL
ATTENUATOR	Transmission level	0 - -15	Transmission output level can be adjusted by every 1 dBm.	-10dBm
DTMF	DTMF transmission level	0 - -15	Transmission output level can be adjusted by every 1 dBm.	-7dBm
LINK	LINK Equalizer	0 1 2	0 link 1 link 2 link	0 link

Service Soft Switch (#3)

- Parameter value setting mode

#3 ADL	
01:	15

When (#3) is selected, the above is shown in the display and the unit enters the parameter value setting mode. Input of parameter value for each item is made by using the numeric keys, and is set when the **[SET]** key is pressed.

When the **[SET]** key is pressed, parameter value for the next item is displayed and stands by for input. Be sure to set parameter values within the specified range. Parameter values are shown in Chart 1-2-12.

Chart 1-2-15

[#3] Parameter value setting mode				
Parameter No.	Details	Setting range	Factory setting	Actual setting
01:	Operator timeout period in the telephone mode	15 – 99 (seconds)	15	15 seconds
02:	RTN transmission condition X	1 – 99 (%)	10	10% Note 2
03:	RTN transmission condition n	2 – 99 times	15	15 times Note 2
04:	RTN transmission condition m	1 – 99 lines	12	12 lines Note 2
05:	CTC/EOR transmission timing	1 – 9 times	4	4 times Notes 1 & 2
06:	T 5 timer	60 – 480 (seconds)	60	60 seconds Notes 1 & 2
07:	High-speed flag transmission time in ECM mode	200 – 5000 (ms)	150 (× 100ms)	1500ms Notes 1 & 2
08:	Consecutive "1" transmission time before image signal transmission	300 – 2000 (ms)	100 (× 10 ms)	1000ms Note 2
09:	Readout slice level (In case of 2 value processing)	0 – 63	37	37 Note 2
10:	Out of use		0	4
11:	Out of use		0	
12:	Out of use		0	
13:	Out of use		0	
14:	Out of use		0	
15:	Out of use		0	

Note 1: ECM related parameters

Note 2: With respect to this parameter, under normal use at present, there is no problem in setting values when TYPE setting has occurred after All Clear operation. Consequently, in the field, there is no need to set this parameter.

Note 3: Setting value meanings are as follows;

Strict lenient
0 ←————→ 7

Service Soft Switch [#4 NCU]

NCU and automatic dialing parameter setting mode

TONE/PULSE...Selection of dial format and setting of parameters covering dial format

TONE/PULSE	PULSE (N)	33%
	PULSE (N)	40%
	PULSE (N+1)	33%
	PULSE (N+1)	40%
	PULSE (10-N)	33%
	PULSE (10-N)	40%
	TONE	

- PULSE (Pulse dial = DP)

PULSE	PULSE (N)	Regular pulse dial Dial N = N pulse generation Dial 0 = 10 pulse generation
	PULSE (N+1)	Special pulse dial Dial N = N + 1 pulse generation
	PULSE (10-N)	Special pulse dial Dial N = 10-N pulse generation

If the above setting has been made, the next setting in [] becomes unnecessary. Return to Standby with the [STANDBY] key.

01: Pulse dial speed for 10pps setting range
02: Pulse dial speed for 20pps setting range
03: Pulse dial make ratio setting range (example: make ratio 33% = 33)
04: Pulse dial minimum pause time Setting range (example: minimum pause 650msec = 650)

- * TONE/PULSE is at PULSE (pulse dial) when unit is shipped from the factory.

Note: Tone/Pulse switchover is also available at user soft switches. The sequence of preference is according to the settings of the user soft switches.

DIAL TONE	Parameter settings regarding dial tone (For only 230V model)
2ND DIAL TONE	Parameter settings regarding 2nd dial tone (For only 230V model)
BUSY TONE 0	Parameter settings regarding busy tone before dialing (For only 230V model)
BUSY TONE 1	Parameter settings regarding busy tone after dialing (For only 230V model)
REDIALING	Parameter settings regarding redialing Note 1
MULTI.....	Parameter settings regarding broadcasting and multi-polling
AUTORX	Parameter settings regarding auto-reception
SPECIAL.....	Parameter settings regarding special control system (For only 230V model)

PSTN	Parameter settings regarding extension line/outside line control
PSTN DIAL TONE	Parameter settings regarding PBX dial tone (For only 230V model)
PSTN BUSY TONE.....	Parameter settings regarding PBX busy tone (For only 230V model)

Note 1: These parameter values will be set automatically by type when TYPE is set. Do not change these values unless there are special circumstances.

PSTN SW	<u>0</u> 0 0 0 0 0 0 0
	7 6 5 4 3 2 1 0

Chart 1-2-16

[#4] Service Soft Switch PSTN				
Bit No.	Function	1	2	Factory setting
0	PBX-Prefix mode	Yes	No	0
1	PBX-earth connection mode	Yes	No	0
2	PBX-hooking mode	Yes	No	0
3	Reserved			0
4	Reserved			0
5	Reserved			0
6	Reserved			0
7	Reserved			0

When bit No. 0 is set to "1" and press **[SET]** key, following display appears and prefix No. can be set.

PSTN TEL=

Chart 1-2-17

Parameter No.	Details	Setting range	Factory setting	Actual value
01	PBX-hooking (Loop dis-connection) time	0 ~ 9999 (ms)	90	90ms
02	PBX-earth connection time	0 ~ 9999 (ms)	200	200ms
03	Reserved		0	

Service Soft Switch (#5 TYPE)

- (TYPE) setting

TYPE	STANDARD
------	----------

When TYPE is selected, the above display appears and the current setting value is shown. All the parameters of the network control format can be set at once with this mode.

By pressing the   keys, the names of the countries which can be set are displayed in sequence. New setting are made by pressing the **[SET]** Key.

The name of each country which can be set is given below.

1) STANDARD.....USA is set at "STANDARD"

When this is selected and the set key is pressed, standard values by format can be set all at once in the parameters of each item of [DIAL TONE] – [SPECIAL]

Service Soft Switch (#6 LBP)

- LBP parameter

#6	LBP	100
01:		

When [LBP parameter] is selected, the above is shown in the display and the unit enters the parameter value setting mode. Input of parameter value for each item is made by using the numeric keys, and is set when the **[SET]** key is pressed.

When the **[SET]** key is pressed, parameter value for the next item is displayed and stands by for input. Be sure to set parameter values within the specified range. Parameter values are shown in the table below.

Chart 1-2-18

[#6] Parameter value setting mode				
Parameter No.	Details	Setting range	Factory setting	Actual value
01	Time after TOP to starting printing		100	100 ms (=2.5 mm)
02	Maximum missing area		12	12mm
03	A L P S parameter 1		3	
04	A L P S parameter 2		3	
05	A L P S parameter 3		2	
06	A L P S parameter 4		2	
07	A L P S parameter 5		3	
08	A L P S parameter 6		3	
09	A L P S parameter 7		2	
10	A L P S parameter 8		1	
11	Printing area expansion		0	-6mm
12				

Note: During regular use, set the contents above as factory setting.

FAX-L770 SSSW Default Setting

Page: 1

TYPE	EUROPE	Sweden	Swiss	Austria	Denmark	Norway	Holland	Belgium
#1								
sw01	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw02	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw03	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw04	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw05	01000000	01000000	01000000	01000010	01000000	01000000	01000000	01000000
sw06	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw07	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw08	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw09	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw10	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw11	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw12	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw13	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw14	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw15	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw16	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw17	00000001	00000001	00000001	00000001	00000001	00000001	00000001	00000001
sw18	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw19	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw20	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
MESSAGE	English	English	English	English	English	Norwegian	English	English
DATE	Europe	Japan	Europe	Europe	Europe	Europe	Europe	Europe
RXSPED	9600	9600	9600	9600	9600	9600	9600	9600
TXSPED	9600	9600	9600	9600	9600	9600	9600	9600
NL EQ	4	4	4	4	4	4	4	4
MONITOR	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL
ATTENUATOR	10	10	5	5	10	10	10	10
DTMF ATT	7	7	4	4	7	7	8	4
LINK EQ	0	0	0	0	0	0	0	0
#3								
01	15	15	15	15	15	15	15	15
02	10	10	10	10	10	10	10	10
03	15	15	15	15	15	15	15	15
04	12	12	12	12	12	12	12	12
05	4	4	4	4	4	4	4	4
06	60	60	60	60	60	60	60	60
07	150	150	150	150	150	150	150	150
08	100	100	100	100	100	100	100	100
09	37	37	37	37	37	37	37	37
10	4	4	4	4	4	4	4	4
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0

FAX-L770 SSSW Default Setting

Page: 2

TYPE	Finland	Italy	Spain	Portugal	U.K.	Australia	N.Z.	Reserved
#1								
sw01	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw02	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw03	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw04	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw05	01000000	01000000	01000000	01000000	01000000	01000000	01000000	01000000
sw06	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw07	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw08	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw09	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw10	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw11	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw12	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw13	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw14	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw15	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw16	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw17	00000001	00000001	00000001	00000001	00000001	00000000	00000001	00000001
sw18	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw19	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw20	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
#2								
MESSAGE	English	English	English	English	English	English	English	English
DATE	Europe	Europe	Europe	Europe	Europe	Europe	Europe	Europe
RX SPEED	9600	9600	9600	9600	9600	9600	9600	9600
TX SPPED	9600	9600	9600	9600	9600	9600	9600	9600
NLEQ	4	4	4	4	4	4	4	4
MONITOR	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL	DIAL
ATTENUATOR	10	4	10	10	10	10	10	10
DTMF ATT	7	4	7	7	7	4	5	7
LINK EQ	0	0	0	0	0	0	0	0
#3								
01	15	15	15	15	15	15	15	15
02	10	10	10	10	10	10	10	10
03	15	15	15	15	15	15	15	15
04	12	12	12	12	12	12	12	12
05	4	4	4	4	4	4	4	4
06	60	60	60	60	60	60	60	60
07	150	150	150	150	150	150	150	150
08	100	100	100	100	100	100	100	100
09	37	37	37	37	37	37	37	37
10	4	4	4	4	4	4	4	4
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0

FAX-L770 SSSW Default Setting

Page: 3

TYPE	EUROPE	Sweden	Swiss	Austria	Denmark	Norway	Holland	Belgium
#4								
TONE/PULSE								
PULSE	DP(n)	DP(n+1)	DP(n)	DP(n)	DP(n)	DP(n)	DP(n)	DP(n)
	10pps40%	10pps40%	10pps40%	10pps40%	10pps33%	10pps40%	10pps40%	10pps33%
01	100	100	100	100	100	100	100	100
02	200	200	200	200	200	200	200	200
03	38	38	38	38	32	38	38	32
04	880	600	880	880	600	880	880	880
TONE								
01	90	67	71	80	90	80	70	71
02	180	75	70	80	210	80	70	70
DIAL TONE	01000000	11000000	11000000	11000000	11000000	11000000	11000000	11000000
01	350	6000	1000	1000	1000	2000	4000	4000
02	130	82	80	80	130	130	130	80
03	10	7	7	10	10	7	10	10
04	0	0	0	0	0	0	0	0
05	0	0	0	0	0	0	0	0
06	320	340	320	390	320	300	80	370
07	580	580	620	510	580	570	650	520
08	96	144	128	64	160	128	160	176
09	0	0	0	0	0	0	0	0
2nd D.TONE	00000000	11000000	00000000	00000000	00000000	11000000	11000000	10000100
01	0	6000	0	0	0	2000	4000	4500
02	0	82	0	0	0	130	130	15
03	0	7	0	0	0	7	10	45
04	0	0	0	0	0	0	0	47
05	0	0	0	0	0	0	0	85
06	0	340	0	0	0	300	80	1120
07	0	580	0	0	0	570	650	1180
08	16	144	16	16	16	128	160	152
09	0	0	0	0	0	0	0	2
BUSY TONE 0	00000000	00000000	10000000	00000000	00000000	10000000	10000000	00000000
01	1000	1000	2000	1000	1000	1000	1000	1000
02	40	22	7	40	40	7	17	40
03	60	27	70	60	60	60	62	60
04	40	22	7	40	40	10	17	40
05	60	27	70	60	60	64	62	60
06	350	340	320	350	350	350	320	350
07	450	580	580	450	450	500	570	450
08	96	144	56	96	160	96	136	112
09	3	3	2	3	3	3	3	3
BUSY TONE 1	00000000	00000000	10000000	10001000	00000000	10000000	10000000	00000000
01	1000	1000	2000	1000	1000	1000	1000	1000
02	40	22	7	16	40	7	19	40
03	60	27	70	44	60	60	57	60
04	40	22	7	16	40	10	20	40
05	60	27	70	44	60	64	58	60
06	350	340	320	350	350	350	320	350
07	450	580	580	450	450	500	570	450
08	96	144	48	88	160	96	88	112
09	3	3	2	2	3	3	2	3
REDIAL								
01	120	120	120	120	120	120	120	120
02	2	2	2	2	2	5	2	2
03	0	0	0	0	0	0	0	0
04	0	0	0	0	0	0	0	0
05	0	0	0	0	0	0	0	0
06	0	0	0	0	0	0	0	0
MULTI								
01	8	8	8	1	8	8	8	8
02	10	10	10	10	10	10	10	10
03	300	300	300	60	300	300	300	300
04	0	0	5	3	10	0	0	0

FAX-L770 SSSW Default Setting

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TYPE	Finland	Italy	Spain	Portugal	U.K.	Australia	N.Z.	Reserved
#4								
TONE/PULSE								
PULSE	DP(n) 10pps40%	DP(n) 10pps40%	DP(n) 10pps33%	DP(n) 10pps33%	DP(n) 10pps33%	DP(n) 10pps33%	DP(10-n) 10pps33%	DP(n) 10pps33%
01	100	100	100	100	100	100	100	100
02	200	200	200	200	200	200	200	200
03	38	38	32	32	32	32	32	32
04	880	980	400	880	880	880	800	880
TONE								
01	70	90	67	90	90	90	80	90
02	70	180	144	180	180	180	80	180
DIAL TONE	01000000	10000000	11000000	11000000	01000000	01000000	01000000	01000000
01	1000	1000	1000	1500	400	350	350	350
02	130	40	200	200	130	130	130	130
03	0	75	10	10	10	10	0	0
04	0	30	0	0	0	0	0	0
05	10	120	0	0	0	0	10	10
06	280	350	350	250	320	320	320	320
07	580	520	520	500	580	580	580	580
08	96	128	104	96	160	96	96	96
09	0	1	0	0	0	0	0	0
2nd D.TONE	00000000	10000000	00000000	00000000	00000000	00000000	00000000	00000000
01	0	1000	0	0	0	0	0	0
02	0	12	0	0	0	0	0	0
03	0	75	0	0	0	0	0	0
04	0	30	0	0	0	0	0	0
05	0	120	0	0	0	0	0	0
06	0	280	0	0	0	0	0	0
07	0	700	0	0	0	0	0	0
08	16	112	16	16	16	16	16	16
09	0	1	0	0	0	0	0	0
BUSY TONE 0	00000000	00000000	00000000	10000000	00000000	00000000	00000000	00000000
01	1000	1000	1000	1500	1000	1000	1000	1000
02	40	15	40	45	40	40	40	40
03	60	75	60	65	60	60	60	60
04	40	55	40	15	40	40	40	40
05	60	120	60	35	60	60	60	60
06	400	320	350	250	350	350	350	350
07	520	450	450	500	450	450	450	450
08	96	96	96	96	160	96	96	96
09	3	3	3	3	3	3	3	3
BUSY TONE 1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
01	1000	1000	1000	1500	1000	1000	1000	1000
02	40	15	200	45	40	40	40	40
03	60	75	10	65	60	60	60	60
04	40	55	0	15	40	40	40	40
05	60	120	0	35	60	60	60	60
06	350	320	320	250	350	350	350	350
07	450	450	580	500	450	450	450	450
08	96	96	96	128	160	96	96	96
09	3	3	0	3	3	3	3	3
REDIAL								
01	120	120	120	120	120	180	360	120
02	2	2	2	2	2	2	2	2
03	0	0	0	0	0	0	0	0
04	0	0	0	0	0	0	0	0
05	0	0	0	0	0	0	0	0
06	0	0	0	0	0	0	0	0
MULTI								
01	8	8	8	8	8	8	8	8
02	10	10	10	10	10	10	10	10
03	300	300	300	300	300	300	300	300
04	0	0	0	0	0	0	0	0

FAX-L770 SSSW Default Setting

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TYPE	EUROPE	Sweden	Swiss	Austria	Denmark	Norway	Holland	Belgium
#4								
AUTO RX								
01	20	20	20	20	20	22	20	20
02	60	20	20	20	60	190	30	60
03	0	0	200	200	0	0	400	0
SPECIAL								
sw01	00000100	00000000	10101100	00100100	00000100	00000100	00000100	00000100
sw02	00000000	00000000	00000111	11110000	00000000	00001000	00000000	00101000
sw03	00000000	00000000	00010101	00000000	00000000	00000000	00000000	00000000
sw04	00000000	00010000	01000000	01100011	00000000	00010000	00010000	00000100
sw05	00000000	00000000	00000000	10100001	00000000	00000000	00000000	00000000
sw06	11110101	11110101	11110101	11110101	11110101	11110101	11110101	11110101
sw07	00000000	00000000	01000000	00100000	01000000	00000000	00000000	00011000
sw08	00000001	00000001	00000101	00000000	00000001	00000001	00001001	00000001
sw09	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw10	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
01	0	0	0	9	0	0	0	0
02	3500	6000	8500	3500	3500	4600	3500	3500
03	2	2	2	2	2	2	2	2
04	10	5	5	35	10	10	5	5
05	0	0	0	800	0	0	0	0
06	0	0	0	800	0	0	0	0
PSTN								
sw	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
TEL								
01	90	70	90	60	90	90	80	90
02	200	200	300	300	200	300	200	200
03	0	0	0	0	0	0	0	0
PSTN D. TONE	00000000	00000000	01000000	00000000	00000000	00000000	01000000	00000000
01	200	200	200	60	200	2000	200	200
02	130	82	80	80	130	130	130	130
03	10	7	7	10	10	10	10	10
04	0	0	0	0	0	0	0	0
05	0	0	0	0	0	0	0	0
06	320	320	320	390	320	300	80	320
07	580	580	580	510	580	580	650	580
08	96	112	80	40	112	96	136	112
09	0	0	0	0	0	0	0	0
PSTN B. TONE	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
01	1000	1000	2000	1000	1000	1000	1000	1000
02	40	22	7	40	40	40	17	40
03	60	27	70	60	60	60	60	60
04	40	22	7	40	40	40	17	40
05	60	27	70	60	60	60	60	60
06	350	340	320	350	350	350	320	350
07	450	580	580	450	450	450	570	450
08	96	144	56	96	160	96	136	112
09	3	3	2	3	3	3	3	3

FAX-L770 SSSW Default Setting

Page: 6

TYPE	Finland	Italy	Spain	Portugal	U.K.	Australia	N.Z.	Reserved
#4								
AUTO RX								
01	20	20	20	20	20	20	30	30
02	60	60	60	60	12	40	12	12
03	0	0	0	0	400	400	400	400
SPECIAL								
sw01	00000100	00000100	00000100	00000100	00011100	00110100	00000100	00100100
sw02	10000000	10000000	00000000	00000000	00000000	00000000	00000000	00000000
sw03	00000000	00010100	00000000	00000000	00000000	00000000	00000000	00000000
sw04	00000000	00000000	00000000	00000000	01011000	00010000	00000000	00000000
sw05	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw06	11110101	11110101	11110101	11110101	11110101	11110101	11110101	11110101
sw07	00000000	00010000	00000100	00000000	00000000	00000000	00000000	00000000
sw08	00000001	00010001	00000001	00000001	00000001	00000001	00000001	00000001
sw09	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
sw10	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
01	0	0	0	0	0	0	0	0
02	3500	3500	3500	3500	3500	3500	3500	3500
03	2	2	2	2	4	2	2	2
04	10	10	10	10	10	10	10	10
05	0	0	0	0	0	0	0	0
06	0	0	0	0	0	0	0	0
PSTN								
sw	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
TEL								
01	70	90	90	90	60	90	330	60
02	350	200	200	200	75	200	200	300
03	0	0	0	0	0	0	0	0
PSTN D. TONE	01000000	10000000	00000000	00000000	00000000	00000000	00000000	01000000
01	200	1000	200	200	200	200	200	200
02	130	12	200	130	130	130	130	130
03	0	25	10	10	10	0	0	0
04	0	40	0	0	0	0	0	0
05	10	60	0	0	0	10	10	10
06	280	250	350	320	320	320	320	320
07	580	650	520	580	580	580	580	580
08	96	128	56	96	160	96	96	96
09	0	1	0	0	0	0	0	0
PSTN B. TONE	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
01	1000	1000	1000	1000	1000	1000	1000	1000
02	40	15	40	40	40	40	40	40
03	60	75	60	60	60	60	60	60
04	40	55	40	40	40	40	40	40
05	60	120	60	60	60	60	60	60
06	400	320	350	350	350	350	350	350
07	520	450	450	450	450	450	450	450
08	96	96	96	96	160	96	96	96
09	3	3	3	3	3	3	3	3

Service Soft Switch (#7 CLEAR)

- Clear Mode

C L E A R T E L

When [CLEAR MODE] is selected, the above display appears and the clear mode is assumed. The clear mode contains the following items.

- (1) TEL Contents registered with the TEL registration are cleared.
- (2) USER SW Contents registered with user data and user data and user soft switches are cleared.
- (3) SERVICE SW Contents of SSSW - #1 – #3 are cleared.
- (4) NCU Contents of SSSW - #4 are cleared.
- (5) SERVICE DATA Contents of system dump list are cleared.
- (6) REPORT Contents of communication management report are cleared.
- (7) ALL All setting/registered data are cleared.

When   are depressed, each item is displayed in sequence.

By depressing [SET] [CLEAR], the details of the item on display are cleared.

Note: The values when the unit was shipped from the factory are set by clearing the selected items and the numerical values of various parameters.

2

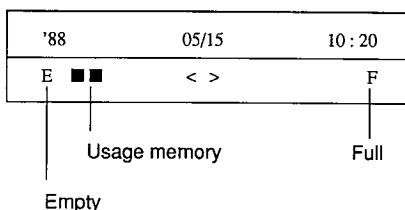
EXPLANATION OF OPERATION

- 2 . 1 Document setting
- 2 . 2 Dual operation
- 2 . 3 Monitor mode
- 2 . 4 Copying
- 2 . 5 Multi-copying
- 2 . 6 Speaker sound
- 2 . 7 Transmission reservation
- 2 . 8 Dialing method
- 2 . 9 Transmission
- 2 .10 Reception
- 2 .11 Confidential communication
- 2 .12 New relay broadcasting system (Available with 2 MByte or 4MByte DRAM)
- 2 .13 Roller cleaning
- 2 .14 LBP reset operation
- 2 .15 Other functions

2.1 Document Setting

When a document is set in the document tray and the DS (Document Sensor) is switched from OFF to ON, the speaker rings and the ADF activates. The remaining memory capacity is shown on the LCD display, and then the display changes to "DOCUMENT READY."

LCD display



2-2 Dual Operation (L770 only)

Dual operation refers to performance of on-line (communication) and off-line (copying, etc.) on one unit.

- On-line operation refers to communication in progress (including dialing).
- Off-line operation covers such operations as copying, transmission reservation on next document, and so on.

Under dual operation with this unit, the following items of operation are possible.

- (1) Transmission reservation of next document (document stored in memory) during memory transmission.
- (2) Copying (including multi-copying), output of each report, and image output all during memory transmission.
- (3) When ringing signal is detected, if the unit has been set for automatic reception, memory reception can take place during copying (including multi-copying), output of each report, or image output. Copying continues as it is.
- (4) When the pre-set communication time arrives, delayed memory transmission or delayed memory reception (delayed polling) starts even during copying (including multi-copying), output of each report, or image output.
- (5) Transmission reservation for next document is possible even during reception.

Operation

- To stop the on-line side, confirm change of LCD display while pressing down on **MONITOR** key, then press **STOP** key.
- Display of the on-line side is given as long as the **MONITOR** key is depressed.

Note: Multiple off-line operations (copying, communication reservation, output of documents stored in memory, output of each report, manual communication) initiated by key operation cannot be performed simultaneously.

Example: During memory reception (or memory transmission), transmission reservation cannot be made while implementing report output (or during other recording operation).

2.3 Monitor Mode

Dual operation of on-line (communication) and off-line (copying, etc.) functions must be done with one unit. Since this unit has only one operation component and one speaker, the time used for on-line or off-line functions must be divided.

For this reason, the unit has a monitor mode, and while this mode is engaged, the on-line side can use LCD display, speaker and each key. The monitor mode comes in two types; manual and compulsory.

- Manual monitor mode

The monitor mode is established while the **MONITOR** key is kept depressed and the status of communication, etc., of the on-line side is shown on LCD display. (Partner's telephone no., ID, communication mode, etc., are displayed.)

- Compulsory monitor mode

Without pressing the **MONITOR** key, the monitor mode is established throughout the time of manual transmission, in the initial period of manual reception, and during callout of telephone mode.

- (1) When the **MONITOR** key is kept depressed manually while no on-line operations are being performed, the on-line operation just completed is displayed.

Example

TRANSMITTING OK	
TX/RX NO	0005

Transmission of TX/RX number 0005 has been properly completed.

TX/RX NO.	0011
REDIALING	

Communication of reception number 0011 has assumed redial standby condition.

- (2) While the main power supply is ON, the on-line side display is as follows. Hereinafter, when an on-line operation is performed, the display can be rewritten to conform to that operation.

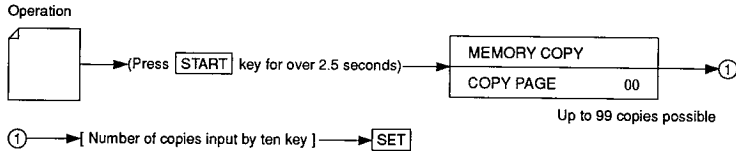
< Monitor Mode >

2.4 Copying

- (1) Set document with unit in on-hook status.
- (2) Press the **START** key to have the document carried by ADF to the readout position.
- (3) Copying is possible in various setting modes (darker, half-tone, etc.).
- (4) If another document is set, the operation repeats itself from step (3). If there is no other document, standby status is assumed.
 - * If recording paper runs out, or toner shortage is detected during reception, following pages are stored in the memory.
 - * If the document length of one page exceeds 1.5 m, the operation ends with a "Document Inspection" error.
 - * While copying (both direct copy and memory copy), fine mode is set regardless of the mode setting.

2.5 Multi (memory) copying

- (1) After the **START** key has been pressed for over 2.5 seconds, the number of copies to be taken can be set.



- (2) When the number of copies to be taken is input by numerical key, and the **SET** key is pressed, the document is saved in memory. Then the designated number of copies are output.

Resolution is fixed as fine mode in multicopying.

Note: In conventional multicopying, all the pages of documents are read first, and output in volume units. In this machine, one page is read and printed the specified number of times. This is because the image memory area is extremely small, and because it is faster to copy the same page several times.

2.6 Speaker Sounds

The speaker sounds are as follows.

- (1) Normal finish sound
Sound made when operations such as transceiving or copying have ended properly.
- (2) Error tone
Sound made when operations such as transceiving or copying have not ended properly.
- (3) Pseudo ringing sound
Sound made when there is operator call for talk notice or talk reservation.
- (4) Off-hook alarm
Sound made when off-hook status remains after communication is completed.
- (5) Key touch tone
Each time an individual key is depressed, a corresponding sound is heard.

2.7 Transmission Reservation

When transmission occurs in which memory was used, the LCD display resumes standby condition after the document is stored in memory. A short while thereafter, the stored documents are transmitted automatically, but it is possible at this time to store a separate document in memory and reserve transmission for it. After the previous documents have been transmitted, the newly reserved document for transmission is transmitted in sequence. A maximum of 200 transmission reservations can be made if memory is empty enough. (A maximum of 32 reservations using delayed function is used can be made).

- * Transmission reservations can also be made during reception. In this case, after the reception is completed, the document reserved for transmission is transmitted.
- * A communication reservation list can be output when you want to confirm status of transmission reservations.
- Operation

Set document, select any readout mode (fine, superfine, darker, half-tone) and input the destination with one-touch dialing, coded speed dialing, or numeric key dialing. After a brief interlude, the document is stored in memory.

Note: If the memory becomes overfilled while a document is being saved, error status is assumed and the transmission reservation is cancelled.

2.8 Dialing Method

2.8.1 One-touch dialing

- The telephone numbers of up to 72 locations can be registered in (01) to (72).
- In each one-touch dial, a telephone number up to a maximum of 38 digits (when space is available in telephone number memory) can be input.
- For each destination, the partner's initials (16 digits) can be registered along with communication mode, and whether by confidential mailbox or by relay broadcasting control (transmission).
- The communication modes are as follows.
 - [9600bps start] Start from 9600bps (normal communication).
 - [4800bps start] Start from compulsory 4800bps. Used when there is a bad line.
 - [Long distance 0] Non-echo countermeasure
 - [Long distance 1] Ignore first DIS
 - [Long distance 2] Crush first DIS (1650Hz)
 - [Long distance 3] Crush first DIS (1850Hz)
- When the registered one-touch key is pressed, the one-touch key number, partner's telephone number, and partner's initials (if registered) are displayed on LCD.

Note: Details (confidential, relay, communication mode) registered in one-touch key are effective only for transmission.

2.8.2 Coded speed dialing

- Telephone numbers of up to 100 locations can be registered in *00 – *99.
- The communication modes which can be registered in coded speed dialing are the same as those in one-touch dialing.

2.8.3 Numeric key dialing

Telephone numbers can be dialed by using the numeric keys on the operation panel. The number of digits per telephone number, including [PAUSE] and [SPACE] keys, which can be input is 38 digits. Inputs from digit 39 onward are ignored. The input telephone number is fixed by pressing the [START] key.

2.8.4 Numeric key last call (manual redial)

When dialing takes place from this unit, the telephone number of the last call from the unit is recorded. However, recording is executed only numeric key dialing, not with one-touch or coded speed dialing.

By pressing the [#] key, the last telephone number which was called can be redialed.

When the power switch is turned off, contents are cleared.

2.8.5 Multi-calling

All one-touch, coded speed, and numeric key dialing can be stored and displayed, and sequential calling can be implemented.

Destinations up to 188 locations

- One-touch dialing 72 locations
- Coded speed dialing 100 locations
- Numeric key dialing 16 location

Operation

Example: Multi-calling of the following

One-touch dial [01][02]

Coded speed dial *03 *05

Numeric key dial 03 349 0375, 03 758 6736

1. Press one-touch dial [01][02], then press *03 *05 03 349 0375 [SET] 03 758 6736 [SET] by numeric key.

At this time if the interlude between each dialing operation is 5 seconds or longer, the unit shifts to calling operation of the dial pressed thus far.

2. Press [START] key to implement multi-calling.

2.8.6 Time sharing dialing

Operation

1. When dialing is performed but the other party is busy, and redial standby condition is established, if the next communication reservation is already registered, one dial of that reserved communication is performed.
2. If, after the first calling operation is completed, there is a call for which redial standby was established earlier and the redial waiting time of that call has elapsed, the call is dialed once again.

2.9 Transmission

2.9.1 Memory transmission by auto dial

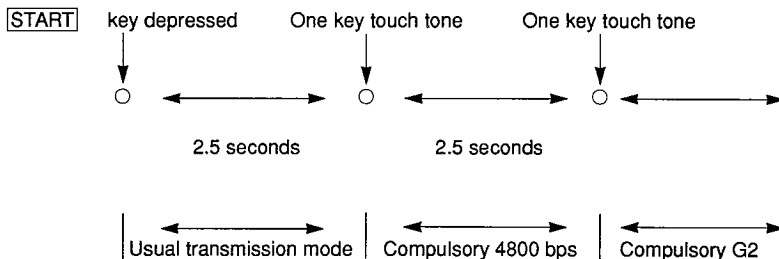
- When document is set and one-touch, coded speed or numeric key dialing is implemented, the document is stored in memory and memory transmission occurs.

2.9.2 Direct transmission by auto dial

- Document is set and one-touch, coded speed or numeric key dialing is implemented. Next, Press the **START** key and direct transmission occurs.
- Redialing takes place even in direct transmission.

2.9.3 Transmission by telephone unit

- In standby status, the document is set, and dialing is performed from the telephone. Then, after the **START** key is pressed, the document is transmitted. At this time, the transmission mode can be changed according to how long the **START** key is kept depressed.



2.9.4 Stamp (L770 only)

The transmission stamp is effective for direct transmission or transmission by telephone. The ○ mark is stamped on a fully transmitted document by pressing the **STAMP** key beforehand.

2.9.5 Broadcast transmission

- When, during memory transmission, multiple destinations have been selected, broadcast transmission is implemented. At this time, the maximum number of destinations is as follows:
 $\text{One-touch } 72 + \text{coded speed } 100 + \text{ten key dial } 16 = 188 \text{ (maximum)}$
- When document storage is completed, documents are transmitted in sequence to the registered destinations.

2.9.6 Delayed (broadcast) transmission

- After the document is set, the delayed transmission reservation mode is entered by pressing the **DELAYED TRANSACTION** key.
- Transmission target time and destination are registered. If multiple destinations are registered at this time, delayed broadcast transmission is implemented. Maximum of 188 destinations.
- When the designated time arrives, calling and transmission to the registered destinations takes place automatically, and in sequence.
- If no images are stored in memory at the transmission time, # 024 error results.
- When transmission occurs at a designated time, delayed (broadcast) transmission is cancelled.

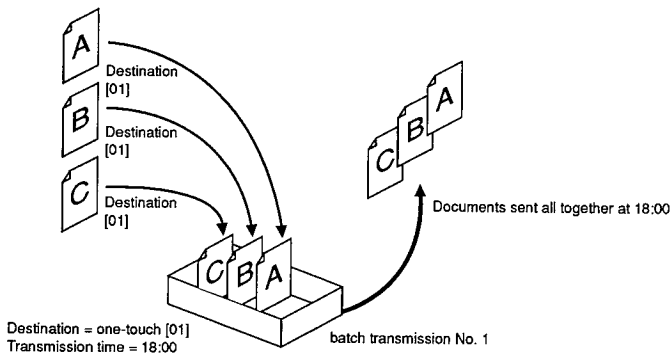
2.9.7 Batch transmission (L770 only)

Concerning batch transmission

With this function, when more than one document are to be sent to the same destination, they are not sent right away but are stored in memory and transmitted all at once at a designated time.

Operation sample

1. Register one-touch key 01 as batch transmission destination.
 - * Destination telephone number or group dial must already be set in 01.
2. The transmission time is set for 18:00.
3. Document A, B and C addressed to destination 01 are placed in the mailbox at different times.



4. When the transmission time (18:00) arrives, documents A, B and C are gathered and sent automatically to 01 destination.

Operation Procedure

1. Set document
2. Press **BATCH TRANSMISSION** key
 - Note:** If one-touch or coded speed dial has been set as batch transmission, there is no need to press the key.
3. Select destination with one-touch or coded speed dial.
4. Select transmitter's individual name with **TTI SELECTOR** key.
5. Document is read into memory automatically.
6. When the designated time arrives, transmission begins automatically.

Note 1: Batch transmission can be set for a maximum of 172 locations. If memory is used for some other function, setting can only be done in the empty portion.

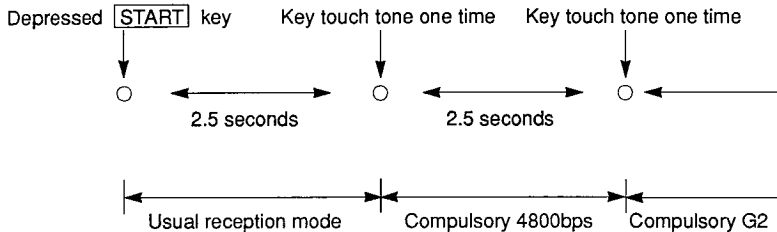
Note 2: When transmission is completed, documents in memory are erased, but the batch transmission itself can still be used.

2.10 Reception

2.10.1 Reception by telephone unit (manual reception)

After dialing from this telephone unit without setting a document, confirm partner's response signal and press **[START]** key.

At this time, the reception mode can be changed according to how long the **[START]** key is kept depressed.



2.10.2 (Multi) polling reception

In the case of polling, the polling ID of the polling standby side (call transmission side) and of the polling reception side (call receiving side) must match.

Special polling ID

- 00000000 → Polling command not received and document not transmitted even if polling IDs match.
- 11111111 → Document is transmitted when polling command arrives even if polling IDs do not match.

Operation

1. Execute one-touch, coded speed or ten key dialing without setting document.
2. Press **[START]** key to establish polling reception mode.
3. If multiple destinations have been registered at time of dialing, multi-polling is established. At this time the maximum number of destinations is 188 locations.

In manual reception, upon receiving the DIS that there is a document set in the other party's machine, the fax sends DTC, and then proceeds to polling reception protocol.

2.10.3 Delayed (multi) polling reception

1. Without setting the document, press the **[DELAYED TRANSACTION]** key to establish the delayed polling mode.
2. When the polling time and destinations have been registered, the unit shifts to the delayed polling reception mode.
3. If multiple destinations are registered at the appropriate time, delayed multi-polling operation begins. The maximum number of destinations is 188 locations.
4. When the designated time arrives, polling reception begins in sequence from the registered destinations.
5. When reception begins at the designated time, delayed (multi) polling reception is cancelled.

Various kinds of delayed polling can be set by Service Soft Switch.

For details, see Ch2, SSSW #17/18.

2.10.4 Memory reception

If recording paper or toner runs out during automatic reception, this function automatically stores in memory the images received from the next page.

Memory reception operation

1. If the recording paper runs out, or toner shortage is detected during reception, memory reception begins on the next page.
2. After memory reception takes place, the LCD reads "RECEIVED IN MEMORY."
3. Memory reception is possible in the G3 and G2 modes.
4. A maximum of approximately 8 document sheets (Canon A4 size standard documents, at time of standard mode) can be stored in memory with standard DRAM.

* The number of pages stored in memory varies with the blackness percentage and the resolution of the document. Number of page increases with optional DRAM. (e.g. approx. 120 pages with 4MByte DRAM.)

Print out of memory received data

1. Set recording paper.
2. Set toner cartridge
3. Press **[START]** key and the received images are printed out.

N. B.

- If the memory becomes full during memory reception, the operation ends in a communication error. The images received for the page prior to error, however, are recorded.
- The width of the recording paper during memory reception is determined by the status of the recording paper width sensor at the time.
- If during printout of memory received images, the recording paper supply runs out or other problems arise, the images still remain in memory.
- If the supply of recording paper runs out during manual reception, memory reception is implemented.
- If during reception on B4 size recording paper, the supply of this paper runs out and memory reception is implemented, the images are reduced if A4 size recording paper is set.
- Printing completion sound is not emitted for memory reception image output.

2.11 Confidential Communication

Concerning confidential communication

Documents transmitted confidentially are stored in the image memory (confidential mailbox) of the receiving side. To output a document which has been received confidentially, the user at the receiving side must input the confidential mailbox no., which was registered beforehand, and the password (secret number). Hence, the confidential communication function is used when you want to send documents to specific persons only.

2.11.1 Confidential transmission

- This unit can perform confidential transmission to Canon units (e.g., FAX-850, this unit also has confidential transmission function) having a confidential reception function.
- If the receiver does not have a confidential reception function (e.g., FAX-630), error results.
- The following items must be set in advance at the receiving side for confidential transmission.

1. Setting of confidential mailbox

A number from 00 to 31 must be set as the confidential mailbox number.

2. Setting of password

Password must be set for each mailbox.

- * Mailbox numbered 00 does not require a password.
- If during confidential transmission, the confidential mailbox no. has not been set in the receiving side beforehand, error results.
- If there is not enough empty space in the image memory of the receiving side, error results.

2.11.2 Confidential reception

- For confidential reception, the confidential mailbox and the password must be set in advance as described above at (1) Confidential transmission.
 - An outline of confidential reception operations is given below.
1. Images from the transmitter designating confidential are stored in a designated numbered mailbox.
 2. When confidential reception is completed, a message is displayed on the LCD.
Display of "RECEIVED IN MAILBOX."
 3. Press the **CONFIDENTIAL MAILBOX** **REPORT** keys to output report and confirm confidential mailbox number.
 4. Press the **CONFIDENTIAL MAILBOX** key.
 5. Input the password of the mailbox indicated in the report.
 6. When the confidential mailbox number designated by the transmitter matches the confidential mailbox number input beforehand into the receiver, and when the password is correctly input after image reception, the images stored in memory are output.
 7. When output is completed normally, the image memory is erased.
- * If the confidential mailbox number = 00, the box does not require a password.
 - * If there is no usable area in image memory, error results.

2.12 New Relay Broadcasting System

This new system is valid when 2 MByte or 4 MByte image memory is equipped, otherwise conventional relay broadcasting system is performed.

Relay broadcasting destinations can be selected by the relay originating fax with this system.

The new relay system makes it possible to relay data to many destination group numbers designated by the relay originating facsimile. The group numbers are transmitted to the relay facsimile by NSS.

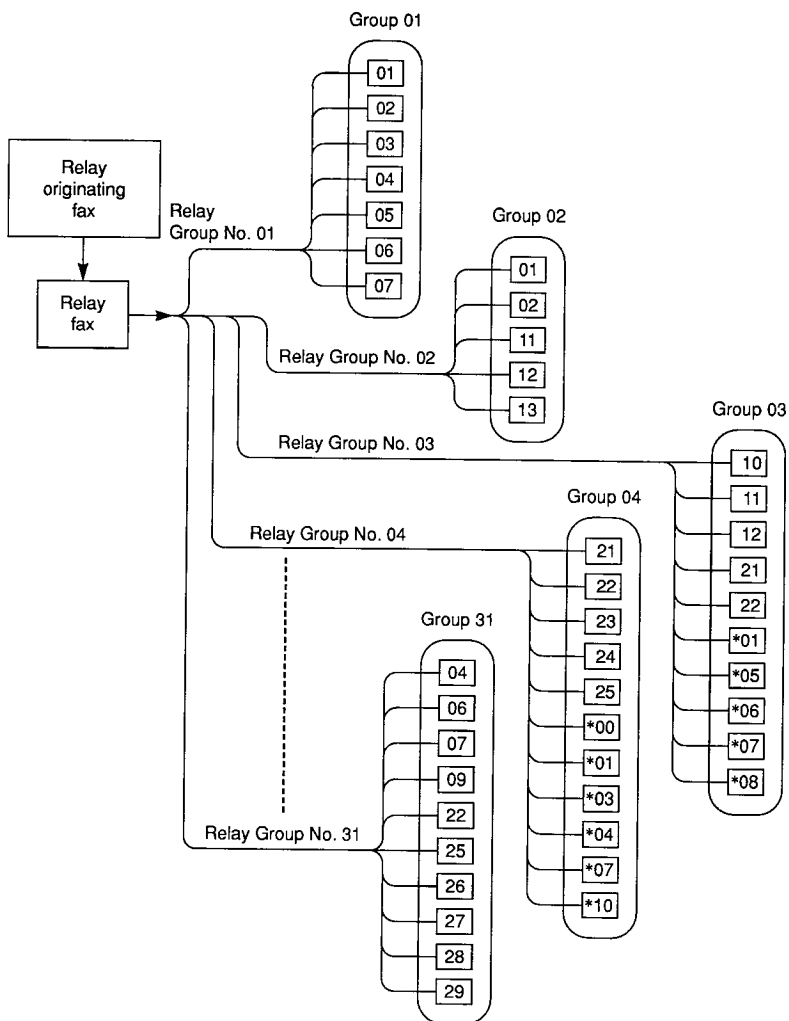


Chart 2-12-1 Relay FAX list

TYPE	MODEL
LATEST	FAX-L770 (/W 2M or 4MByte DRAM), FAX-850 (120V/W U05.07 or later,) Canofax 850HD (100 V), Canofax Laser 770 (/W 2M or 4MByte DRAM)
* MODIFIED	FAX-850 (100V, 230V and 120V/W U05.04 or older) Canofax 705A, FAX-750 (120V)
ORIGINAL	FAX-730 FAX-L920
CONFID	FAX with confidential transmission function
OTHER	FAX without relay originating function

*Original machines that were modified.

Note 1: The FAX-L770 can be used as a relay facsimile only when its DRAM size has been expanded to at least 2 megabytes by installation of the G3 FAX OPTION MEMORY I. The standard DRAM size is 1.0 megabytes . The DRAM size of the FAX-L770 can be expanded to 2, or 4 megabytes by combining the G3 FAX OPTION MEMORY I & II. The DRAM size of the FAX-L760 can be expanded to 1.5 Mbytes by the G3 FAX OPTION MEMORY I.

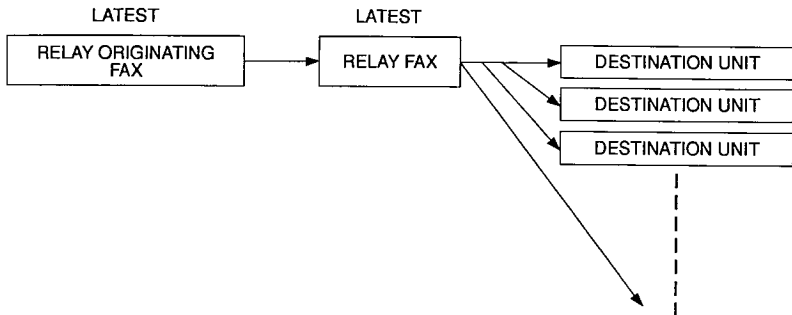
Note 2: Relay group number
FAX-L770, FAX-850 : No. 00 to 29
Canofax 850HD (100V) : No. 00 to 31

Following combinations can be taken for the New Relay Broadcasting System.
Details are described in the following pages.

Chart 2-12-2

	Relay originating FAX	Relay FAX
1	Latest type	Latest type
2	Latest type	Original type
3	Latest type	Modified type
4	Confidential	Latest type
5	Original or Modified type	Latest type
6	Other type	Latest type

2.12.1 Relay control between latest types:



1. Relay originating facsimile

Settings

(1) TEL registration

Set the telephone number using one-touch or coded speed dialing. Relay transmission depends on whether or not the relay group number is set.

(2) User data: Telephone number of the originating facsimile (TSI)

(3) USSW: None

Operation

(1) If the relay group number was set using one-touch or coded speed dialing, load the document and make the call using one-touch or coded speed dialing.

(2) If the relay group number was not set using one-touch or coded speed dialing, load the document, press the relay key, enter the relay group number, and make the call using one-touch speed dialing, etc.

2. Relay facsimile

Settings

(1) TEL registration

Set the group number, destination, telephone number of the originating facsimile, group ID, and time under "Relay TX" (item 6).

(2) USSW

1. Set "RELAY SW A" on

2. "RELAY PRINT": Outputs images received by the memory of the relay facsimile.

3. "RELAY BROADCAST REPORT": Transmits image data of relay results from the relay facsimile to the relay originating facsimile (MH, Fine, MTT = 40 ms).

(3) User data: Telephone number of the relay facsimile (CSI)

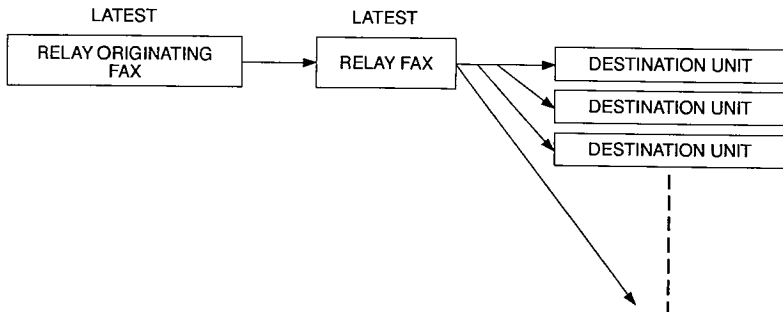
3. Operations

The relay facsimile receives all images from the originating facsimile, stores them in memory, and then broadcasts them to the destination unit relay group numbers specified by the originating facsimile.

Notes

- (1) If the toner runs out when "RELAY PRINT" is on, the relay facsimile transmits the relay image to the destination units, and then clears the image.
- (2) If the telephone number (TSI) of the originating facsimile is not registered, a communication error occurs at the relay originating facsimile.
- (3) If the relay facsimile has no free memory, a communication error occurs.
- (4) The telephone number and group number (specifying relay transmission) of the originating fax are compared with each relay facsimile coded speed dialing number, and then with each one-touch speed dialing number until the last six digits match.
- (5) If the memory overflows during memory reception, a communication error occurs. The relay facsimile stops subsequent relay broadcasting.

2.12.2 Relay control between a latest type and an original type



1. Relay originating facsimile

- (1) Tel registration: Set the telephone number of the relay facsimile using one-touch or coded speed dialing, and enter relay group number 00.
- (2) User data: Telephone number of the originating facsimile (TSI)
- (3) USSW: None

Operation

- (1) If relay group number 00 was registered using one-touch or coded speed dialing, load the document and make the call using one-touch or coded speed dialing.
- (2) If relay group number 00 was not registered using one-touch or coded speed dialing, load the document, press the relay key, enter relay group number 00, and make the call using one-touch speed dialing, etc.

2. Relay facsimile

Settings

- (1) TEL registration
 1. Register the relay destination under "DESTINATION UNIT" (item 5).
 2. Register the telephone number of the originating facsimile under "ORIG FAX TEL #1" (item 6).
- (2) USSW
 1. Set "RELAY SW A" on.
 2. "RELAY PRINT": Outputs the images received by the relay facsimile.
 3. "RELAY BROADCAST REPORT": Transmits image data of relay results from the relay facsimile to the relay originating facsimile (MH, Fine, MTT = 40 ms).
- (3) User data: Telephone number of the relay facsimile (CSI)

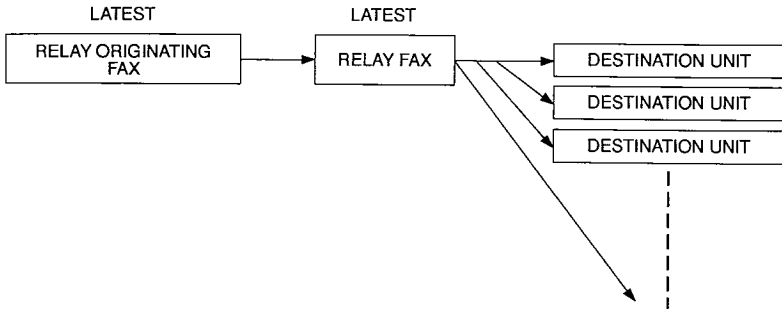
3. Operations

The relay facsimile receives all images from the originating facsimile, stores them in memory, and then broadcasts them to the destination units registered under "RELAY DESTINATION".

Notes

- (1) If the telephone number (TSI) of the originating facsimile is not registered, a communication error occurs.
- (2) If the relay facsimile does not have enough memory, a communication error occurs.
- (3) The telephone numbers of "ORIGINATING FAX TEL # 1" registered in the relay facsimile are compared with the telephone number (TSI) of the relay originating facsimile until the last six digits (or last four digits for the 730) match.
- (4) If the memory overflows during memory reception, a communication error occurs. The relay facsimile stops subsequent relay broadcasting.

2.12.3 Relay control between a latest type and a modified type



1. Relay originating facsimile

Settings

- (1) TEL registration: Set the telephone number of the relay facsimile using one-touch or coded speed dialing and enter relay group number 00.
- (2) User data: Telephone number of the originating facsimile (TSI)
- (3) USSW: None

Operation

- (1) If relay group number 00 was registered using one-touch or coded speed dialing, load the document and make the call using one-touch or coded speed dialing.
- (2) If relay group number 00 was not registered using one-touch or coded speed dialing, load the document, press the relay key, enter relay group number 00, and make the call using one-touch dialing, etc.

2. Relay facsimile

Settings

- (1) TEL registration
 1. Register the relay destinations at "DESTINATION UNIT" #01 to 08 (item 5).
 2. Register the telephone number of the originating facsimile and unit number of the broadcasting destination at "ORIG FAX TEL #1" (item 6).
- (2) USSW
 1. Set "RELAY SW A" on.
 2. "RELAY PRINT": Outputs the images received by the relay facsimile.
 3. "RELAY BROADCAST REPORT": Transmits image data of relay results from the relay facsimile to the relay originating facsimile (MH, Fine, MTT = 40 ms).
- (3) User data: Telephone number of the relay facsimile

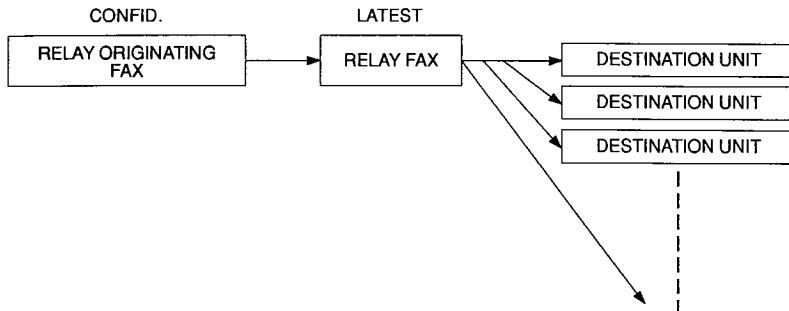
3. Operations

The relay facsimile broadcasts images to the destination unit numbers registered in "ORIG FAX TEL #1" that match the TSI of the originating facsimile.

Notes

- (1) If the telephone number (TSI) of the originating facsimile is not set, a communication error occurs.
- (2) If the relay facsimile does not have enough memory, a communication error occurs.
- (3) The telephone number and group number (specifying relay transmission) of the originating fax is compared with each relay facsimile coded speed dialing number and then with each one-touch speed dialing number until the last six digits match.
- (4) If the memory overflows during memory reception, a communication error occurs. The relay facsimile stops subsequent relay broadcasting.

2.12.4 Relay control between a confidential model and a latest type



1. Relay originating facsimile

Settings

- (1) TEL registration: Register the confidential box number using one-touch or coded speed dialing if possible.
- (2) User data: Telephone number of the originating facsimile (TSI)
- (3) USSW: None

Operation

- (1) If the confidential box number was registered using one-touch or coded speed dialing, load the document and make the call using one-touch or coded speed dialing.
- (2) If the confidential box number was not (or cannot be) registered using one-touch or coded speed dialing, load the document, perform those operations that are required before starting confidential transmission, enter the relay group number of the relay facsimile in which destination unit numbers to which data is to be relay broadcast have been registered, and perform the confidential transmission operation.

2. Relay facsimile

Settings

- (1) TEL registration
Register the group number, destination, telephone number of the originating facsimile, group ID, and time under "Relay TX" (item 6).
- (2) USSW
 1. Set "RELAY SW A" on.
 2. "RELAY PRINT": Outputs the images received by the relay facsimile.
 3. "RELAY BROADCAST REPORT": Transmits image data of relay results from the relay facsimile to the relay originating facsimile (MH, Fine, MTT = 40 ms).
- (3) User data: Telephone number of the relay facsimile (CSI)
- (4) SSSW: Set SSSW #1 SW04 b6 to 1.

3. Operations

The relay facsimile receives all images from the originating facsimile, stores them in memory, then broadcasts them to those destination units which have the same relay group number as the confidential box number specified by the originating facsimile.

Caution

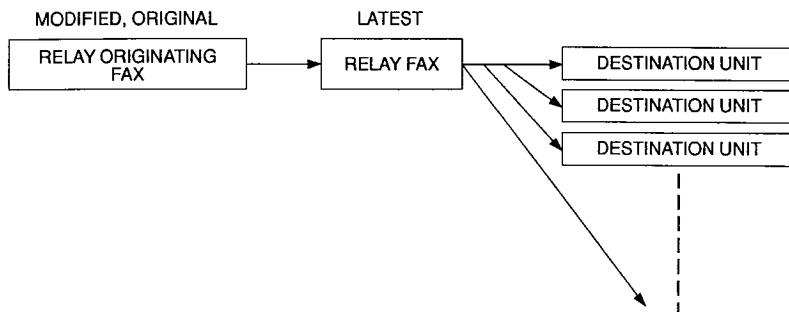
When SSSW #1 b6 = 1, note the following:

1. When the originating facsimile requests confidential transmission, and an incorrect confidential box number happens to match a relay group number of the relay facsimile, the confidential image is relay-broadcast to the wrong destination if the telephone number of the originating facsimile was registered. Take special care when performing relay transmission using a confidential box number.
2. Numbers in the range 00 to 29 (31) that have already been registered as confidential box numbers cannot be registered as relay group numbers. (They can be registered when b6 = 0.) For example, suppose that when b6 = 0, 01 is registered as a confidential box number, and 01 is also registered as a relay group number. If b6 is changed to 1, 01 is a relay group number, and the telephone numbers of destinations and the originating facsimile cannot be changed. If there is an image in the confidential box when b6 = 0 and if b6 is changed to 1, it cannot be taken out of the box. (It cannot be taken out even when b6 is changed back to 0 after first being changed to 1.)

Notes

- (1) If the toner runs out when "RELAY PRINT" is on, the relay facsimile transmits the relay image to the destination, and then clears the image.
- (2) If the telephone number (TSI) of the originating facsimile is not registered, a communication error occurs.
- (3) If the relay facsimile does not have enough memory, a communication error occurs.
- (4) The telephone number and group number (specifying relay transmission) of the originating fax is compared with each relay facsimile coded speed dialing number and then with each one-touch speed dialing number until the last six digits match.
- (5) If the memory overflows during memory reception, a communication error occurs. The relay facsimile stops subsequent relay broadcasting.
- (6) The relay facsimile performs relay broadcasting even when the originating facsimile specifies the relay group number.
- (7) If the telephone number of the originating facsimile has been registered in the same relay group as the specified box number when the relay facsimile receives confidential data, the relay fax handles it as relay data.

2.12.5 Relay control between a modified or an original type and a latest type



1. Relay originating facsimile

Settings

- (1) TEL registration
Register the telephone number of the relay facsimile using one-touch speed dialing, etc. Register the telephone number of the relay originating facsimile if possible.
- (2) User data: Telephone number of own facsimile
- (3) USSW: None

Operation

When the relay originating facsimile has been registered using a one-touch speed dialing key, load the document and press the one-touch speed dialing key. Otherwise, perform the relay control transmission operation.

2. Relay facsimile

Settings

- (1) TEL registration
Register the destinations, telephone number of the originating facsimile, group ID, and transmission time in group No. 00 at "RELAY TX" (item 6).
- (2) USSW
 1. Set "RELAY SW A" on.
 2. "RELAY PRINT": Outputs the images received by the relay facsimile.
 3. "RELAY BROADCAST REPORT": Transmits image data of relay results from the relay facsimile to the relay originating facsimile (MH, Fine, MTT = 40 ms).
- (3) User data: Telephone number of own facsimile (CSI)

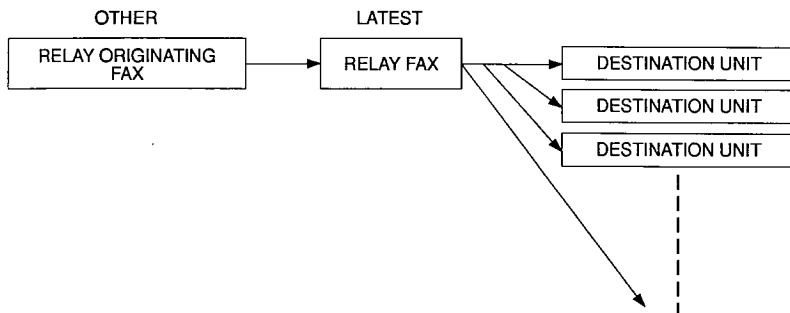
3. Operations

The relay facsimile receives all images from the originating facsimile, stores them in memory, then broadcasts them to the destination units registered in relay group No. 00.

Notes

- (1) If the toner runs out when "RELAY PRINT" is on, the relay facsimile transmits the relay image to the destination units, and then clears the image.
- (2) If the telephone number (TSI) of the originating facsimile is not registered, a communication error occurs.
- (3) If the relay facsimile does not have enough memory, a communication error occurs.
- (4) The relay origination telephone No. in relay TX group No. specified by relay originating fax and telephone No. of the originating fax (TSI) are compared with coded speed dialing number and then with each one-touch speed dialing number until the last six digits match.
- (5) If the memory overflows during memory reception, a communication error occurs. The relay facsimile stops subsequent relay broadcasting.

2.12.6 Relay control between other type and a latest type



1. Relay originating facsimile

Settings

(1) TEL registration

Telephone number of the originating facsimile (TSI)

Operation

Load the document and transmit data to the relay facsimile in the usual way.

2. Relay facsimile

Settings

(1) TEL registration

Register the destinations, telephone number of the originating facsimile, group ID, and transmission time in group No. 29 (or No. 31 for the Canofax 850HD) under "Relay TX" (item 6).

(2) USSW

1 Set "RELAY SW A" on.

2. Set "RELAY SW B" on.

3. "RELAY PRINT": Outputs the images received by the relay facsimile.

4. "RELAY BROADCAST REPORT": Transmits image data of relay results from the relay facsimile to the relay originating facsimile (MH, Fine, MTT = 40 ms).

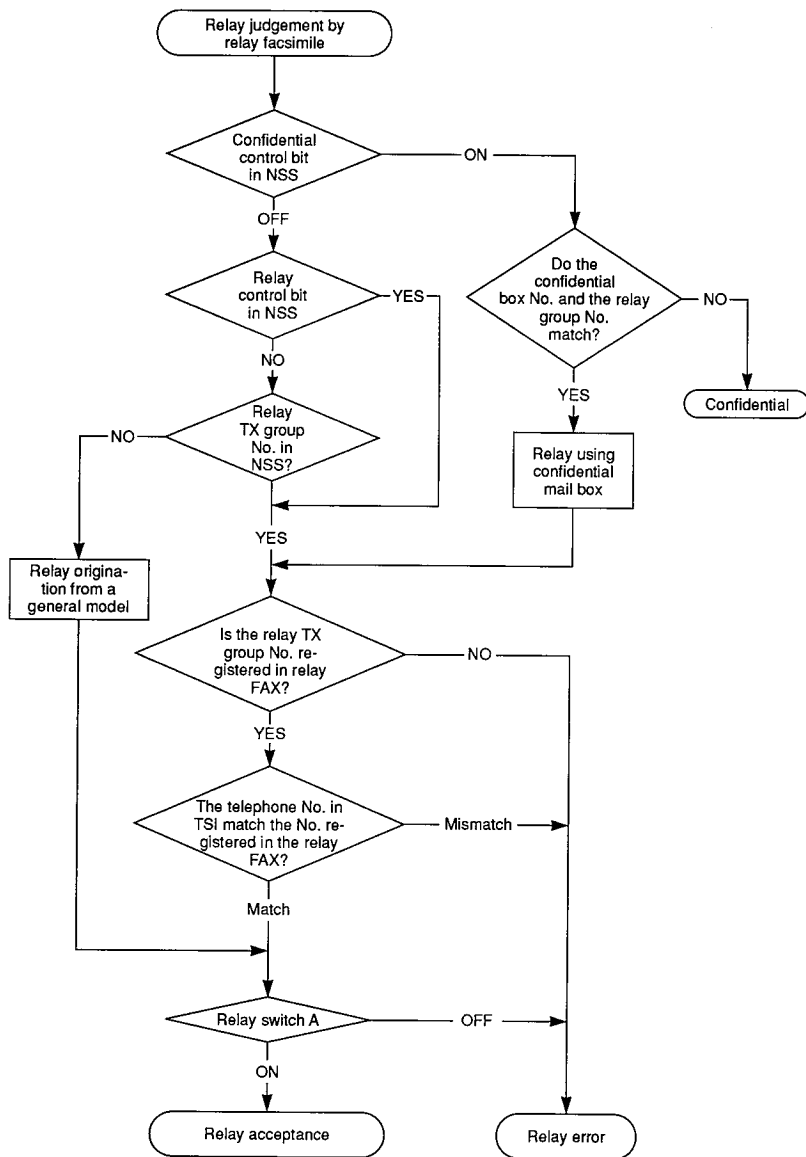
(3) User data: Telephone number of the relay facsimile (CSI)

3. Operations

The relay facsimile receives all images from the originating facsimile, stores them in memory, then broadcasts them to the destination units registered in relay group No. 29 (or No. 31 for the Canofax 850HD).

Notes

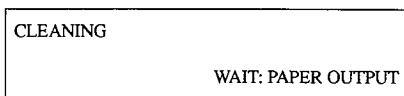
- (1) If the toner runs out when "RELAY PRINT" is on, the relay facsimile transmits the relay image to the destinations, transmits the image to the destinations, then clears the image.
- (2) If the telephone number (TSI) of the originating facsimile was not registered, a communication error occurs.
- (3) If the relay facsimile does not have enough memory, a communication error occurs.
- (4) The relay origination telephone No. in relay TX group No. 29 (or No. 31 for the Canofax 850HD) are compared with the telephone No. of the relay originating fax until the last six digits match.



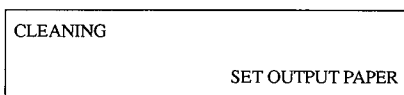
2.13 Roller Cleaning

Following procedure should be performed every time a toner cartridge is replaced with a new one.

- (1) Cleaning paper is output by pressing the cleaning key in the standby status.
Cleaning mode is not set while printer is operating or not ready



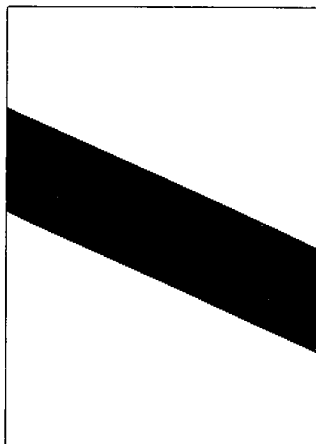
- (2) Set cleaning paper face down in the cassette.



- (3) Cleaning paper is fed by pressing the set key.



- (4) After finishing feeding, the machine beeps to indicate that the operation is finished and goes back to the standby mode.



2-13-1 Cleaning paper sample

2.14 LBP Trouble Shooting

2.14.1 LBP Reset operation

When LBP errors occur and "CHECK PRINTER" is displayed on the LCD, the LBP can be returned to the standby status by the following operation instead of by turning the power off and on. This is useful when there is image data in the image memory.

Operation

Press USER DATA, #, *, 1.

N.B.

1. If a FAX-L770/760 which has been in a cold place is installed in a warm place, condensation may form on the polygon mirror etc.. If this happens, the LBP cannot detect the presence of condensation, and enters the ready status. If there is a call, the FAX-L770/760 enters the receiving status.
2. If condensation remains on the mirror when the received images should be output, the LBP detects an error and enters the error status. This first received images cannot be output, and remain in memory as memory reception.
3. The FAX-L770/760 enters the service error status and "CHECK PRINTER" is displayed. Since service errors occur, the FAX-L770/760 cannot receive. However, manual reception is possible.
4. The LBP checks the status only when printing starts. So even if there is no longer any condensation, the LBP stays in the service error status.
5. The LBP can be reset by the above LBP reset operation. If there is no longer any condensation, the LBP can return to the normal standby status and the images in the memory can be output.

2.14.2 LBP Status Details

With key operations, LBP's internal status can be read.

Operation

Press **USER DATA** + **#** + *****

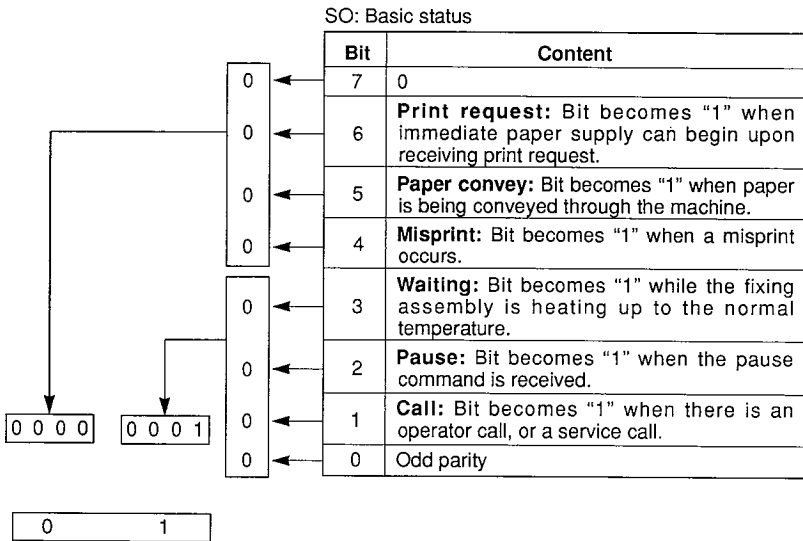
When the following display is shown, status will be displayed;

```
LBP STATUS
S0 : 01 S1 : 01 S2 : 01
```

See the following pages for status details.

How to read S0, S1, S2 table

Chart 2-14-1



If LCD display displayed "05"

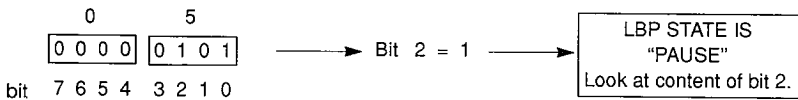


Chart 2-14-2

S0: Basic status

Bit	Content
7	0
6	Print request: Bit becomes "1" when immediate paper supply can begin upon receiving print request.
5	Paper convey: Bit becomes "1" when paper is being conveyed through the machine.
4	Misprint: Bit becomes "1" when a misprint occurs.
3	Waiting: Bit becomes "1" while the fixing assembly is heating up to the normal temperature.
2	Pause: Bit becomes "1" when the pause command is received.
1	Call: Bit becomes "1" when there is an operator call, or a service call.
0	Odd parity

Chart 2-14-3

S1: Operator call status

Bit	Content
7	0
6	Reserved
5	Reserved
4	No Paper: Bit becomes "1" when there is no paper in the required part of the machine.
3	Jam: Bit becomes "1" when there is a paper jam in the machine.
2	Door open: Bit becomes "1" when the printer cover is open.
1	Test printing: Bit becomes "1" when a test print is being carried out.
0	Odd parity

Chart 2-14-4

S2: Service call status

Bit	Content
7	0
6	Fixing assembly breakdown: Bit becomes "1" when the fixing heater or control circuit overheats.
5	BD breakdown: Bit becomes "1" when the BD signal is not output correctly.
4	Scanner motor breakdown: Bit becomes "1" when the scanner motor cannot rotate at the normal rate.
3	0
2	0
1	Reserved
0	Odd parity

2.15 Other Functions

2.15.1 Copy mode

When copying (both via memory and direct) is performed, the superfine mode is set regardless of fine or superfine settings.

2.15.2 PRE-PROGRAMMED key

This facsimile machine lets you register the function keys you use frequently under the PRE-PROGRAMMED key. The transmission mode, scanning density, and other settings can also be registered on the PRE-PROGRAMMED key.

The following keys can be registered.

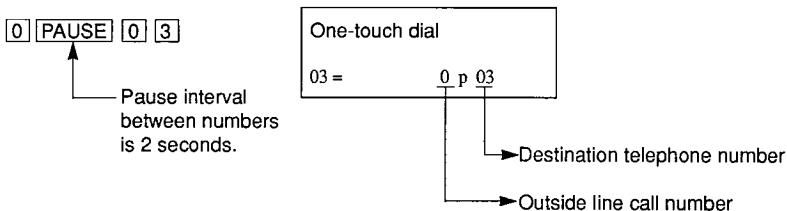
STAMP MEMORY REFERENCE MEMORY POLLING TALK F NET
RELAY BROADCAST CONFIDENTIAL MAILBOX DELAYED TRANSMISSION
REPORT MAILPOST TOUCH TONE

The following modes can be registered:

SUPER FINE or FINE DARKER or LIGHTER HALF TONE or AA

2.15.3 How to use pause

- When this unit is connected to a private branch exchange (PBX), if a call is made from an extension line to an outside line, dial "0" or other outside line call number before dialing the telephone number. A brief time period is required after the PBX receives this "0" until the outside line is connected. If a pause is inserted between the outside line call number and the telephone number during register of each one-touch or coded speed dial and during ten-key dialing, there is a wait of two seconds.

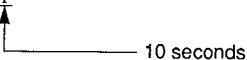


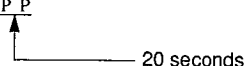
- * The factory setting of the pause interval between numbers is 2 seconds. This pause interval between numbers can be changed in user data registration. The range of potential time change is from 1 to 15 seconds.

- When dialing overseas

With this unit, if the partner does not answer within about 35 seconds after dialing, the line is cut by a built-in timer. In actual dialing overseas, however, there are districts where, after dialing, 35 seconds or more passes before the line is connected. In these cases, start of timer must be delayed by inserting a pause at the end of the telephone number.

- * The pause inserted at the end of the telephone number, that is the last pause, is fixed at 10 seconds.

Example 1. 0 3 1 2 3 4 5 6 7 P


Example 2. 0 3 1 2 3 4 5 6 7 P P


2.15.4 Memory reception data output

When automatic reception occurs during copying, memory dumping, etc., or during operation of recording system, memory reception is established. Output of the received images is done by pressing the start key.

2.15.5 Talk notice condition

With reserved communication (transmission reservation, delayed transmission, delayed polling, etc.), talk notice is impossible. Talk reservation, however, is possible at the final page only in case of direct transmission.

2.15.6 How to change line to telephone

After dialing by auto dial (one-touch, coded speed, ten key), the line cannot be switched to this unit even if its handset is lifted up. In this case, switch can be made by implementing auto dial after the handset is lifted up. Also, for Talk Notice, first pick up the unit handset, dial and after confirming partner's signal tone, press the **[TALK]** key.

2.15.7 Dial number registration

This unit differs from its predecessors (FAX-730, 410, 705) in that the register memory of one-touch or coded speed dial numbers is of variable length. With the conventional units, a maximum of 38 digits can be registered in all the one-touch and coded speed dial numbers. With this new unit, on the other hand, a dial register memory with a total of 6060 digits has been prepared in the memory. These 6060 digits can be used in common with one-touch, coded speed, Extend dial and group dials. In this way, with register of a short dial, the remainder of memory can be used for other one-touch, coded speed, Extend dial or group dials, so that memory is used more efficiently. Its unique feature is that Extend dial and group dials can be freely registered. Its drawback is that the number of maximum length (average 36 digits) cannot be registered in all the dials.

- * The remainder of dial memory is printed as % in the user data list as a rough indicator (output by pressing **[USER DATA]** **[REPORT]** key).

Notes

1. Error sound is emitted, when copying operation is attempted during reception.
2. Interrupt sound is same as pseudo bell sound for operator call.
3. Memory reception is performed when toner runs out during reception. LCD indicates "RECEIVED IN MEMORY".
4. When this machine performs relay broadcasting control reception during copying operation, it does not start relay broadcasting until the relayed image is printed.
5. When transmission is performed without recording paper, and the transmission result report is selected to print out by USSW, the memory lamp will not go out because the report is stored in the memory. The lamp goes out when recording paper is set and the report is printed out.

3 LISTS AND REPORTS

3.1 The List of Lists and Reports

A list of lists and reports output from this machine is presented below. Samples of them are presented in the following pages.

Chart 3-1-1

No.	Type of list/report	Contents.	Output operation
1	One-touch speed dial telephone number list	List of the telephone numbers registered in one-touch speed dial.	TEL REGISTRATION SET REPORT
2	Coded speed dial telephone number list	List of the telephone numbers registered in coded speed dial.	TEL REGISTRATION ▼ SET REPORT
3	Group dial telephone number list	List of the telephone numbers registered in group dial.	TEL REGISTRATION ▼ ▼ SET REPORT
4	Expanded dial list	List of the telephone numbers registered in expanded dial.	TEL REGISTRATION ▼ ▼ ▼ SET REPORT
* 5	Batch transmission telephone number list	List of the telephone numbers set for batch transmission.	TEL REGISTRATION ▼ ▼ ▼ ▼ SET REPORT
* 6	Relay destination unit list	List of the telephone numbers for relay destinations.	TEL REGISTRATION ▼ ▼ ▼ ▼ ▼ SET REPORT
7	User data list	Data list for user ID, polling ID and user soft switches	USER DATA REPORT At this time, the "TTI list" is also output.
8	TTI list	List of registered TTI (up to 99 names)	USER DATA REPORT At this time, "User Data list" is also output.
9	System data list	Data list for serviceman registered in service soft switch	USER DATA # REPORT
10	System dump list	Data list of the following ● No. of transaction times, No. of transaction pages ● Usage times of each transmission speed ● Usage times of each communication mode ● Occurrence times of each error code	USER DATA # REPORT System data list and system dump list are output simultaneously.

* L770 only

No.	Type of list/report	Contents.	Output operation
11	Activity report (Transmission results report)	Report of transmission results for each communication (Output can be selected by user soft switch.)	Output upon finish of transmission
12	Activity report (Reception results report)	Report of reception results for each communication (Output can be selected by user soft switch)	Output upon finish of reception
13	Activity report (Communication management report)	A list of latest 40 communications, indicating what types of communication were performed to which destinations The report format (TX/RX separate or not) can be selected with item 7, user SW.	REPORT
14	Error transmission report (undelivery notice)	When an error has occurred during memory transmission, a report of the error and the first page of the image are output. (Output of error report and image can be inhibited by user soft switch.)	Output when an error has occurred during memory transmission.
15	Multi-transaction results report	Output when all multi-communications such as broadcast transmission have been finished.	Output when multi-communication finish
16	Relay broadcast results report	When relay broadcasting finishes, the relay station transmits the result report to the relay control station. (Transmission of the result report can be inhibited by user soft switch.)	Automatically transmitted upon completion of relay broadcast.
17	Confidential memory report	The report indicates the number(s) of the confidential box where confidential image has been received.	CONFIDENTIAL REPORT
18	Confidential message notice	Report of confidential box where confidential image has been received	When finishing confidential reception
19	Transaction schedule (Transmission re-servation list)	Indicates the non-transmitted image and the transmission order of each image.	MEMORY REFERENCE SET

No.	Type of list/report	Contents.	Output operation
20	Memory list	Indicates how much of the image memory is being used and for what purpose. It also indicates TX/RX No.	MEMORY REFERENCE ▼ SET
21	Transmission Reserve memory clear report	With the main power supply at OFF, all the images stored in memory are cleared. When the main power supply is ON, the list indicates what image was in transmission reservation status.	Main power supply ON → OFF → ON

* All telephone numbers lists (No. 1 – No. 7) can be output by pressing
TEL REGISTRATION REPORT key.

3.2 Samples of Lists and Reports

3.2.1 One-touch speed dial telephone number list

One-touch speed dial can be registered at up to 72 locations. One-touch speed dial information not registered in the one-touch speed dial telephone number list is not printed out.

07/05/91 11:09 ☎222222 BB 001

***** *** 1-TOUCH SPEED DIAL LIST *** *****						
SD #	CONNECTION TEL	CONNECTION ID	MODE	TX SPEED	☎	⌚
[01]	111111	CHISATO	BATCH TX	9600bps 0		16:45
[02]	333333	MAX	MEMORY TX	9600bps 0		
[03]	444444	BRAD	MEMORY TX	9600bps 0		
[18]	002 7896542535362	D. CONRAN	MEMORY TX	9600bps 0		
[34]	GROUP DIAL	GROUP				
[50]	GROUP DIAL	Staff R'pt				

↑
Delayed TX time
↑
Confidential box number

3.2.2 Coded speed dial telephone number list

Coded speed dial can be registered at up to 100 locations.

Coded speed dial information not registered in the coded speed dial list is not printed out.

07/05/91 11:10 ☎222222 BB 001

***** *** CODED SPEED DIAL LIST *** *****						
SD #	CONNECTION TEL	CONNECTION ID	MODE	TX SPEED	☎	⌚
[*01]	111111	CHISATO	MEMORY TX	9600bps 0		
[*02]	333333	MAX	MEMORY TX	9600bps 0		
[*03]	01 7754 6523	LONDON	MEMORY TX	9600bps 0		
[*04]	555555	Carric Ltd.	MEMORY TX	9600bps 0		

↑
Delayed TX time
↑
Confidential box number

3.2.3 Group dial telephone number list

07/05/91 11:10 ☎222222 BB 001

```
*****
***  GROUP DIAL LIST  ***
*****

[ 34]  GROUP           [ 01]  111111          CHISATO
                        [ 02]  333333          MAX
                        [ 03]  444444          BRAD

[ 50]  Staff R'pt      [ 01]  111111          CHISATO
                        [ 02]  333333          MAX
                        [ 03]  444444          BRAD
```

3.2.4 Expanded dial list

07/05/91 11:18 ☎222222 BB 001

```
*****
***  EXPANDED DIAL LIST  ***
*****

[ 04]  YAECAKI          058 45675675789 3563563
[ 08]  TS Industries    9809809 986806555556868321232658
```

3.2.5 Batch transmission telephone number list

07/05/91 11:19 ☎222222 BB 001

```
*****
***  BATCH TX DIAL LIST  ***
*****

[ 01]  CHISATO          111111          START TIME16:45
```

3.2.6 Relay destination unit list

```

07/05/91  11:19  ☎222222  BB  001

*****
*** RELAY TX REFERENCE LIST ***
*****

GROUP # 01:  CHISATO          START TIME  11:25
DESTINATION UNIT  [ 01]

ORIGINATING UNIT  [ 02]

GROUP # 07:  SS1              START TIME   :
DESTINATION UNIT  [ 02] [ 03]

ORIGINATING UNIT  [ 01]

```

3.2.7 User data list

Output by pressing the **USER DATA** **REPORT** key. At this time, TTI list is also output.

```

07/05/91  11:20  ☎222222  BB  001

*****
*** USER'S DATA LIST ***
*****

USER'S ID      -----  BB
USER'S TEL     -----  222222
POLLING ID     -----  01010101
REPORT TIME    -----  15:20
MID PAUSE      -----  2
PRE-PROGRAMMED KEY -----  IMAGING MODE
TX REPORT      -----  OUTPUT NO
RX REPORT      -----  OUTPUT NO
OFFHOOK ALARM  -----  ON
TX TERMINAL ID -----  ON
TTI POSITION     -----  OUTSIDE IMAGE
ACTIVITY REPORT -----  OUTPUT YES
ACTY MGMT REP SEPARATE -----  TX/RX NOT SEPARATE
ERROR TX REPORT -----  OUTPUT YES
POLLING MEMORY -----  CLEAR
RELAY SWITCH A -----  ON
RELAY SWITCH B -----  ON
ERROR COPY PRINT -----  OUTPUT YES
MULTI TRANSACTION REPORT -----  OUTPUT YES
RELAY PRINT     -----  OUTPUT NO
RELAY BROADCAST REPORT -----  SEND TO ORIG:YES
CONFID. RX REPORT -----  OUTPUT YES
TONE/PULSE     -----  TOUCH TONE
% REMAINING DIAL MEMORY -----  91%

```

3.2.8 TTI (transmitter's terminal ID) list

Up to 99 names (TTI) can be registered in the list. By pressing the **USER DATA** **REPORT** key, 99 TTIs are output. At this time, the user data list is also output.

07/05/91	11:21	☎222222	BB	001
***** *** TTI *** *****				
01: MC	02: KUMIKO	03: L770		
04:	05:	06:		
07:	08:	09:		
10:	11:	12:		
13:	14:	15:		
16:	17:	18:		
19:	20:	21:		
22:	23:	24:		
25:	26:	27:		
28:	29:	30:		
31:	32:	33:		
34:	35:	36:		
37:	38:	39:		
40:	41:	42:		
43:	44:	45:		
46:	47:	48:		
49:	50:	51:		
52:	53:	54:		
55:	56:	57:		
58:	59:	60:		
61:	62:	63:		
64:	65:	66:		
67:	68:	69:		
70:	71:	72:		
73:	74:	75:		
76:	77:	78:		
79:	80:	81:		
82:	83:	84:		
85:	86:	87:		
88:	89:	90:		
91:	92:	93:		
94:	95:	96:		
97:	98:	99:		

3.2.9 System data list

Output by pressing the **USER DATA** **#** **REPORT** keys.

The system dump list is also output at this time.

07/05/91 11:22 ☎222222

BB

001

*** SYSTEM DATA LIST ***

#1 SSSW

SW01	----	00000000
SW02	----	00000000
SW03	----	00000000
SW04	----	00000000
SW05	----	01000000
SW06	----	00000000
SW07	----	00000000
SW08	----	00000000
SW09	----	00000000
SW10	----	00000000
SW11	----	00000000
SW12	----	00000000
SW13	----	00000000
SW14	----	00000000
SW15	----	00000000
SW16	----	00000001
SW17	----	00000000
SW18	----	00000000
SW19	----	00000000
SW20	----	00000000

#2 MENU

1. MESSAGE	----	English
2. DATE	----	USA
3. RX START SPEED	----	9600
4. TX START SPEED	----	9600
5. NL EQ	----	4
6. MONITOR	----	DIAL
7. ATTENUATOR	----	9
8. DTMF ATT	----	3
9. LINK EQ	----	0

#3 ADL

01 :	----	15
02 :	----	10
03 :	----	15
04 :	----	12
05 :	----	4
	----	60
	----	150
	----	100

12. PSIN BUSY

01 :	----	15
02 :	----	10
03 :	----	15
04 :	----	12
05 :	----	4
06 :	----	60
07 :	----	350
08 :	----	450
09 :	----	3
	----	3
	----	0

#5 TYPE

TYPE	----	STANDARD
------	------	----------

#6 LBP

01 :	----	100
02 :	----	12
03 :	----	3
04 :	----	3
05 :	----	2
06 :	----	2
07 :	----	3
08 :	----	3
09 :	----	2
10 :	----	1
11 :	----	0
12 :	----	0

#8 ROM

HIGH	----	U11.01
LOW	----	U11.01

START DATE

DATE	----	06/14/91
------	------	----------

3.2.10 System dump list

- * 1 Total reception page number and total transmission page number
- * 2 Transmission pages (No. of direct and manual transmission pages; No. of memory transmission pages)
- * 3 Number of pages by document size
- * 4 Number of communication pages at each transmission speed
- * 5 Number of communication pages at each mode (G3, standard/fine/superfine)
- * 6 Number of communication pages of each coding method
- * 7 Times of communication of each mode
- * 8 Generation times of each error code

Example

280 1 7 3 8 2

↑ ↑

Generation Generation

frequency frequency

of 280 error of 281 error

.....

07/05/91

11:24

☎222222

BB

001

 *** SYSTEM DUMP LIST ***

CLEAR DATE

0*/09/**

RX	=	31	TX	=	51	RETX	=	0				
DOC	=	10	MEM	=	41							
A4	=	82	B4	=	0	A3	=	0	A5	=	0	
9600	=	82	7200	=	0	4800	=	0	2400	=	0	
STD	=	26	FINE	=	56	SUPER	=	0				
MH	=	0	MR	=	20	MMR	=	62				
G3	=	14	G2	=	0							
MF1	=	0	MF2	=	0	ECM	=	95				
PRINT	=	25										

#000	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	10	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	5	3	0	0	0	0	0	0	0
#000	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
#100	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
#200	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
#220	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
#280	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
#520	0	0	0	0	0	0	0	0	0	0	0	0
#600	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
#750	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
#999	0											

Error data of the latest 3 communications

06/06/91 11:28 ☎195766

CHISATO

002

#1 LATEST

##201

START TIME 05/28 09:44
OTHER PARTY 757061
MAKER CODE 10001000

Rx : (bit 1) 00000000 (bit 8)
(bit 9) 01100001 (bit16)
(bit17) 00011111 (bit24)
(bit25) 00100000 (bit32)

Tx : (bit 1) 00000000 (bit 8)
(bit 9) 01110011 (bit16)
(bit17) 00011111 (bit24)
(bit25) 00100000 (bit32)

Rx :	NSS TSI DCS	PIX PPS=NULL	PIX DCN
Tx :	NSF CSI DIS	CFR	MCF

#2

##201

START TIME 05/27 12:40
OTHER PARTY
MAKER CODE 10001000

Rx : (bit 1) 00000000 (bit 8)
(bit 9) 01100001 (bit16)
(bit17) 00011111 (bit24)
(bit25) 00100000 (bit32)

Tx : (bit 1) 00000000 (bit 8)
(bit 9) 01110011 (bit16)
(bit17) 00011111 (bit24)
(bit25) 00100000 (bit32)

Rx :	NSS DCS	PIX DCN
Tx :	NSF DIS	CFR

3.2.11 Activity report (transmission results report)

Output after completion of one communication. Output can be inhibited by user soft switch.

```
07/05/91  11:35  ☎222222  BB  001

*****
***  ACTIVITY REPORT  ***
*****

TRANSMISSION OK

TX/RX NO.          0159
CONNECTION TEL      111111
CONNECTION ID      CHISATO
START TIME         07/05 11:34
USAGE TIME         00'42
PAGES              1
RESULT             OK
```

3.2.12 Activity report (reception results report)

Output after completion of one communication. Output can be inhibited by user soft switch.

```
07/05/91  11:34  ☎222222  BB  001

*****
***  ACTIVITY REPORT  ***
*****

RECEPTION OK

TX/RX NO.          0160
CONNECTION TEL      111111
CONNECTION ID      CHISATO
START TIME         07/05 11:30
USAGE TIME         03'22
PAGES              1
RESULT             OK
```

3.2.13 Activity report (communication management report)

The latest 40 communications records are output by pressing the **[REPORT]** key.

The report format can be selected with the item 7, USER SW as follows:

(1) TX/RX not separate format

07/05/91 11:37 ☎222222 BB 001

*** ACTIVITY REPORT ***

ACTY#	MODE	CONNECTION TEL	CONNECTION ID	START TIME	USAGE T.	PAGES	RESULT
*0107	ORIG. TX	G3	195766 CHISATO	06/25 11:00	00'05	0	NG
*0107	ORIG. TX	G3	195766 CHISATO	06/25 11:04	00'05	0	NG #035
*0107	ORIG. TX	G3	195766 CHISATO	06/25 11:07	00'04	0	NG #035
*0108	ORIG. TX	G3	333333 MAX	06/25 11:13	00'10	0	NG #035
*0108	ORIG. TX	G3	333333 MAX	06/25 11:16	00'09	0	NG #035
*0109	ORIG. TX	G3	195766 CHISATO	06/25 11:18	00'05	0	NG #036
*0108	ORIG. TX	G3	333333 MAX	06/25 11:19	00'10	0	NG #035
*0109	ORIG. TX	G3	195766 CHISATO	06/25 11:21	00'05	0	NG #036
*0109	ORIG. TX		195766 CHISATO	06/25 11:24	00'02	0	NG #035
*0110	ORIG. TX		195766	06/25 12:39	00'00	0	NG STOP
*0111	TX	ECM	444444 BRAD	06/25 13:04	03'11	1	OK STOP
*0117	RELAY RX	ECM	111111 CHAS	06/25 13:48	00'38	1	OK
*0117	RLY B' CAST	ECM	333333 MAX	06/25 13:51	00'35	1	OK
*0117	RLY B' CAST	ECM	444444 BRAD	06/25 13:52	00'36	1	OK
*0118	TX	ECM	111111 CHISATO	06/25 13:53	00'47	1	OK
*0119	RELAY RX	ECM	111111 DAT5	06/25 13:58	00'46	1	OK
*0119	RLY B' CAST	ECM	333333 MAX	06/25 13:59	01'01	1	OK
*0119	RLY B' CAST	ECM	444444 BRAD	06/25 14:01	01'01	1	OK
*0120	TX	ECM	111111 CHISATO	06/25 14:03	00'47	1	OK
*0121	RELAY RX	ECM	111111 Sales	06/25 14:44	00'45	1	OK
*0121	RLY B' CAST	ECM	333333 MAX	06/25 14:46	01'00	1	OK
*0121	RLY B' CAST	ECM	444444 BRAD	06/25 14:47	01'00	1	OK
*0122	TX	ECM	111111 CHISATO	06/25 14:49	00'47	1	OK
*0123	CONFID. TX	ECM	111111 CHISATO	06/25 15:10	03'21	1	OK
*0124	CONFID. TX	ECM	111111 CHISATO	06/25 15:21	03'22	1	OK
*0125	CONFID. RX	ECM	444444 BRAD	06/25 15:30	01'28	1	OK
*0126	CONFID. RX	ECM	111111 CHISATO	06/25 15:59	04'03	2	OK
*0127	BATCH TX	ECM	111111 CHISATO	06/25 16:45	04'41	3	OK
0128							
0129							
*0130	TX		111111 CHISATO	07/04 13:59	00'00	0	NG
0143	TX		111111 CHISATO	07/04 16:14	00'00	0	NG #018
0144	TX		111111 CHISATO	07/04 16:22	00'00	0	NG #018
0150	AUTO RX	ECM	111111 CHISATO	07/05 09:32	02'28	1	OK STOP
0152	AUTO RX	ECM	111111 CHISATO	07/05 09:39	00'38	1	OK
0153	AUTO RX	ECM	111111 CHISATO	07/05 09:41	03'19	1	OK
0154	TX	ECM	1 CHISATO	07/05 10:12	02'52	1	OK
0156	AUTO RX	ECM	111111 CHISATO	07/05 10:50	00'45	1	OK
0157	AUTO RX	ECM	111111 CHISATO	07/05 10:51	00'46	1	OK
0158	TX	ECM	111111 CHISATO	07/05 10:53	00'43	1	OK
0160	AUTO RX	ECM	111111 CHISATO	07/05 11:30	03'22	1	OK
0159	TX	ECM	111111 CHISATO	07/05 11:34	00'42	1	OK

The * mark here indicates that communication management report was output once previously.

(2) TX/RX separate format

07/05/91 12:53 222222

BB

001

 *** ACTIVITY MANAGEMENT REPORT TX ***

ACTY#	MODE	CONNECTION TEL	CONNECTION ID	START TIME	USAGE T.	PAGES	RESULT
*0109	ORIG. TX G3	195766	CHISATO	06/25 11:18	00'05	0	NG
*0108	ORIG. TX G3	333333	MAX	06/25 11:19	00'10	0	NG 0 #035
*0109	ORIG. TX G3	195766	CHISATO	06/25 11:21	00'05	0	NG 0 #036
*0109	ORIG. TX	195766	CHISATO	06/25 11:24	00'02	0	NG 0 #035
*0110	ORIG. TX	195766		06/25 12:39	00'00	0	NG 0 STOP
*0111	TX ECM	444444	BRAD	06/25 13:04	03'11	1	OK
*0117	RLY B'CAST ECM	333333	MAX	06/25 13:51	00'35	1	OK
*0117	RLY B'CAST ECM	444444	BRAD	06/25 13:52	00'36	1	OK
*0118	TX ECM	111111	CHISATO	06/25 13:53	00'47	1	OK
*0119	RLY B'CAST ECM	333333	MAX	06/25 13:59	01'01	1	OK
*0119	RLY B'CAST ECM	444444	BRAD	06/25 14:01	01'01	1	OK
*0120	TX ECM	111111	CHISATO	06/25 14:03	00'47	1	OK
*0121	RLY B'CAST ECM	333333	MAX	06/25 14:46	01'00	1	OK
*0121	RLY B'CAST ECM	444444	BRAD	06/25 14:47	01'00	1	OK
*0122	TX ECM	111111	CHISATO	06/25 14:49	00'47	1	OK
*0123	CONFID. TX ECM	111111	CHISATO	06/25 15:10	03'21	1	OK
*0124	CONFID. TX ECM	111111	CHISATO	06/25 15:21	03'22	1	OK
*0127	BATCH TX ECM	111111	CHISATO	06/25 16:45	04'41	3	OK
0128							
0129							
*0130	TX	111111	CHISATO	07/04 13:59	00'00	0	NG 0 #018
*0143	TX	111111	CHISATO	07/04 16:14	00'00	0	NG 0 #018
*0144	TX	111111	CHISATO	07/04 16:22	00'00	0	NG 0 STOP
*0154	TX ECM	1	CHISATO	07/05 10:12	02'52	1	OK
*0158	TX ECM	111111	CHISATO	07/05 10:53	00'43	1	OK
*0159	TX ECM	111111	CHISATO	07/05 11:34	00'42	1	OK

 *** ACTIVITY MANAGEMENT REPORT RX ***

ACTY#	MODE	CONNECTION TEL	CONNECTION ID	START TIME	USAGE T.	PAGES	RESULT
*0117	RELAY RX ECM	111111	CHAS	06/25 13:48	00'38	1	OK
*0119	RELAY RX ECM	111111	DATS	06/25 13:58	00'46	1	OK
*0121	RELAY RX ECM	111111	Sales	06/25 14:44	00'45	1	OK
*0125	CONFID. RX ECM	444444	BRAD	06/25 15:30	01'28	1	OK
*0126	CONFID. RX ECM	111111	CHISATO	06/25 15:59	04'03	2	OK
*0150	AUTO RX ECM	111111	CHISATO	07/05 09:32	02'28	1	OK
*0152	AUTO RX ECM	111111	CHISATO	07/05 09:39	00'38	1	OK
*0153	AUTO RX ECM	111111	CHISATO	07/05 09:41	03'19	1	OK
*0156	AUTO RX ECM	111111	CHISATO	07/05 10:50	00'45	1	OK
*0157	AUTO RX ECM	111111	CHISATO	07/05 10:51	00'46	1	OK
*0160	AUTO RX ECM	111111	CHISATO	07/05 11:30	03'22	1	OK
0161	AUTO RX ECM	111111	CHISATO	07/05 11:41	03'19	1	OK

3.2.14 Error transmission report (undelivery notice)

Output can be inhibited by user soft switch.

06/06/91 12:58 195766

CHISATO

001

*** ERROR TX REPORT ***

TX FUNCTION WAS NOT COMPLETED

TX/RX NO.	0167	
CONNECTION TEL		21957
CONNECTION ID		
START TIME	06/06 12:58	
USAGE TIME	00'00	
PAGES	0	
RESULT	NG	0 STOP

THE SLEREXE COMPANY LIMITED

SAPORS LANE - BOOLE - DORSET - BH25 8ER

TELEPHONE BOOLE (945 13) 51617 - TELEX 123456

Our Ref. 350/PJC/EAC

18th January, 1972.

Dr. P.N. Cundall,
Mining Surveys Ltd.,
Holroyd Road,
Reading,
Berks.

Dear Pete,

Permit me to introduce you to the facility of facsimile transmission.

In facsimile a photocell is caused to perform a raster scan over the subject copy. The variations of print density on the document cause the photocell to generate an analogous electrical video signal. This signal is used to modulate a carrier, which is transmitted to a remote destination over a radio or cable communications link.

At the remote terminal, demodulation reconstructs the video signal, which is used to modulate the density of print produced by a printing device. This device is scanning in a raster scan synchronised with that at the transmitting terminal. As a result, a facsimile copy of the subject document is produced.

↑
At time of memory transmission error, the first page of images is printed out. Output of the undelivered images can be inhibited by user soft switch.

3.2.15 Multi-transaction results report

Output when multiple destinations have been designated and all communications finish.

```
07/05/91  13:20  ☎222222  BB  001

*****
***  MULTI TRANSACTION REPORT  ***
*****

TX/RX NO.                0168

INCOMPLETE TX/RX  [ 02] 333333                MAX
                  [ 03] 444444                BRAD
                  4
TRANSACTION OK    [ 01] 111111                CHISATO
                  1

ERROR
```

3.2.16 Relay broadcast results report (only with optional DRAMs)

The relay station transmits the report as image data to the relay originating FAX after relay broadcasting finishes.

```
07/05/91  14:36  ☎222222  BB  +--+ CHISATO  001/001

*****
***  RELAY BROADCAST REPORT  ***
*****

TX/RX NO.                0173

INCOMPLETE TX/RX

TRANSACTION OK  [ 02] 333333                MAX
                [ 03] 444444                BRAD

ERROR
```

3.2.17 Confidential mailbox report

Output when [CONFIDENTIAL MAILBOX], [REPORT] keys are pressed.

```
06/06/91  15:39  ☎195766  CHISATO  001

*****
***  CONFID. MAILBOX REPORT  ***
*****

CONFID MAILBOX      CONFID. MAILBOX NAME  PAGES
   01              BBC                      1
```

3.2.18 Confidential message notice

```
07/05/91  14:34  ☎222222  BB  001

*****
***  CONFIDENTIAL MESSAGE NOTICE "URGENT"  ***
*****

CONFID. MESSAGE TO:  BBC

TX/RX NO.            0174

CONNECTION TEL       111111

CONNECTION ID        CHISATO

START TIME           07/05 14:34

USAGE TIME            00'38

PAGES                 1

RESULT                OK
```

3.2.19 Transaction schedule (transmission reservation list)

Output when **MEMORY REFERENCE** key is pressed.

Refer to page 2-12.

07/05/91	14:44	222222	BB	001		
***** *** TRANSACTION SCHEDULE *** *****						
TX/RX NO.	MODE	CONNECTION TEL	PAGES	SET TIME	START TIME	TTI
0176	DELAYED TX	[01] CHISATO [02] MAX	1	07/05 14:41	15:00	BB
0177	D. POLLING	333333	0	07/05 14:43	14:42	BB
0178	BATCH TX	[01] CHISATO	1	07/05 14:43	16:45	MC

Note: When delayed polling is set, "0" is printed at the page column of the schedule.

3.2.20 Memory list

Output when **MEMORY REFERENCE** key is pressed.

Refer to page 2-12.

07/05/91	14:45	222222	BB	001		
***** *** MEMORY LIST *** *****						
TX/RX NO.	MODE	CONNECTION TEL	PAGES	SET TIME	START TIME	TTI
0176	DELAYED TX	[01] CHISATO	1	07/05 14:41	15:00	BB
		[02] MAX				
0177	D. POLLING	333333	0	07/05 14:43	14:42	BB
0167	TRANSMISSION	[02] MAX	1	07/05 13:00	*****	BB
0168	TRANSMISSION	[02] MAX	1	07/05 13:02	*****	BB
		[03] BRAD				
		4				
0178	BATCH TX	[01] CHISATO	1	07/05 14:43	16:45	MC

Note: Start time in the above list means;

Blank: Redialing waiting status

*****: Redialing times excess

3.2.21 Transmission reserve memory clear report

Output when power switched ON from OFF.

07/05/91 14:46 ☎222222

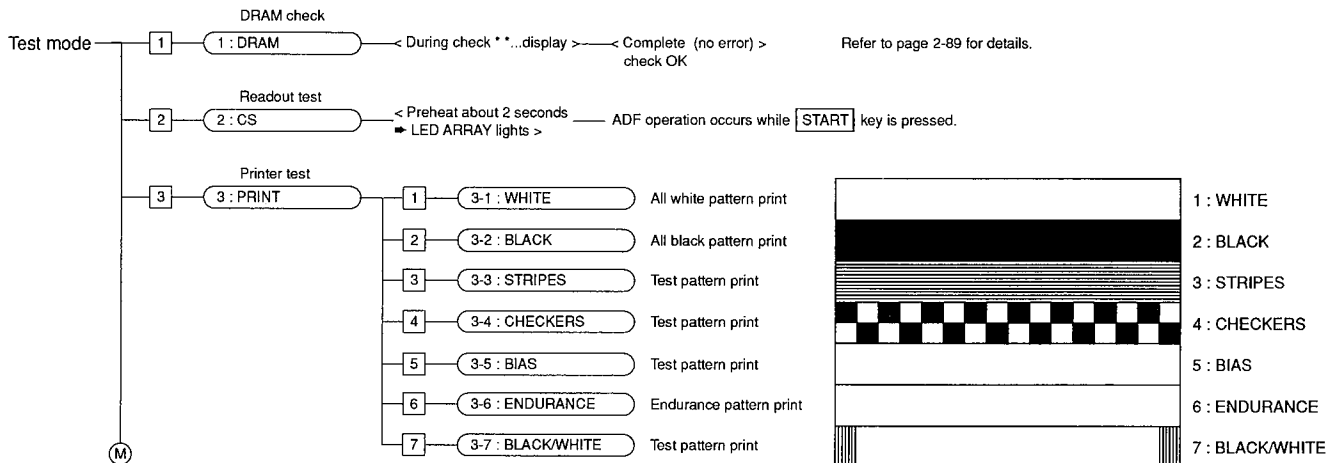
BB

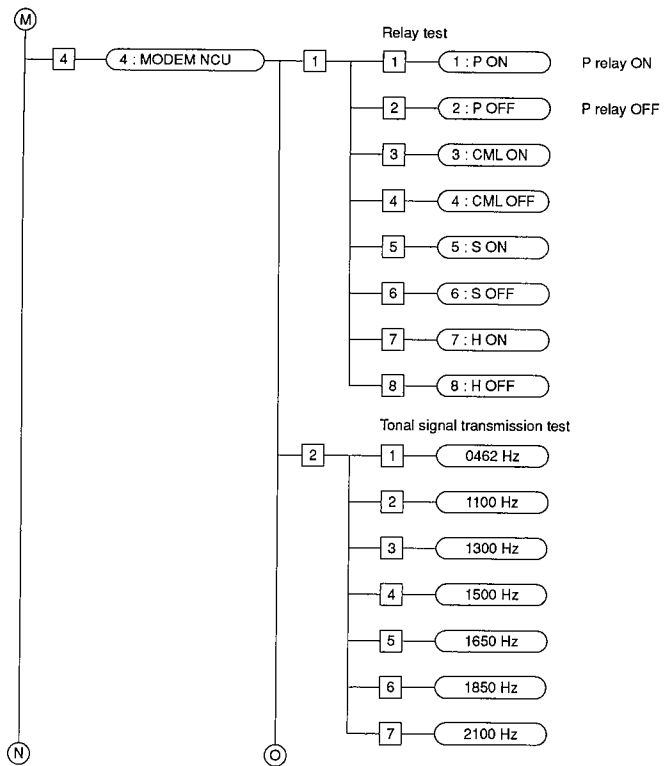
001

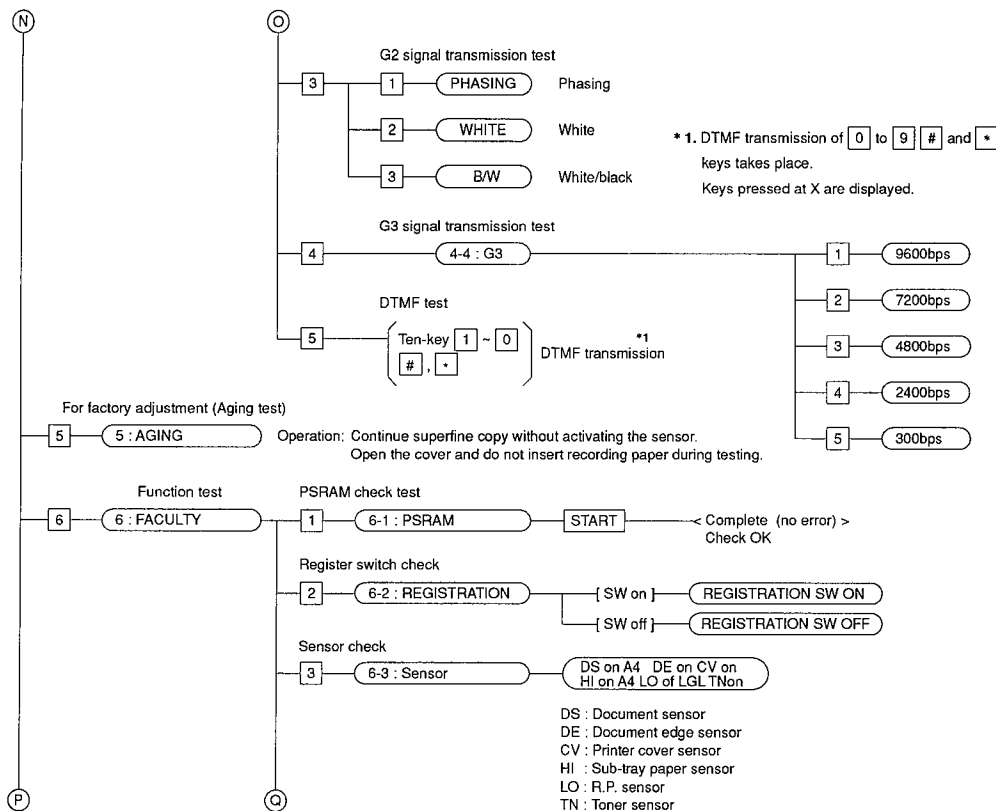
***** *** TX RESERVE MEMORY CLEAR REPORT *** *****							
TX/RX NO.	MODE	CONNECTION TEL	PAGES	SET TIME	START TIME	TTI	
0176	DELAYED TX	[01] CHISATO	1	07/05 14:41	15:00	BB	
		[02] MAX					
0177	D. POLLING	333333	0	07/05 14:43	14:42	BB	
0167	TRANSMISSION	[02] MAX	1	07/05 13:00	*****	BB	
0168	TRANSMISSION	[02] MAX	1	07/05 13:02	*****	BB	
		[03] BRAD					
		4					
0178	BATCH TX	[01] CHISATO	1	07/05 14:43	16:45	MC	

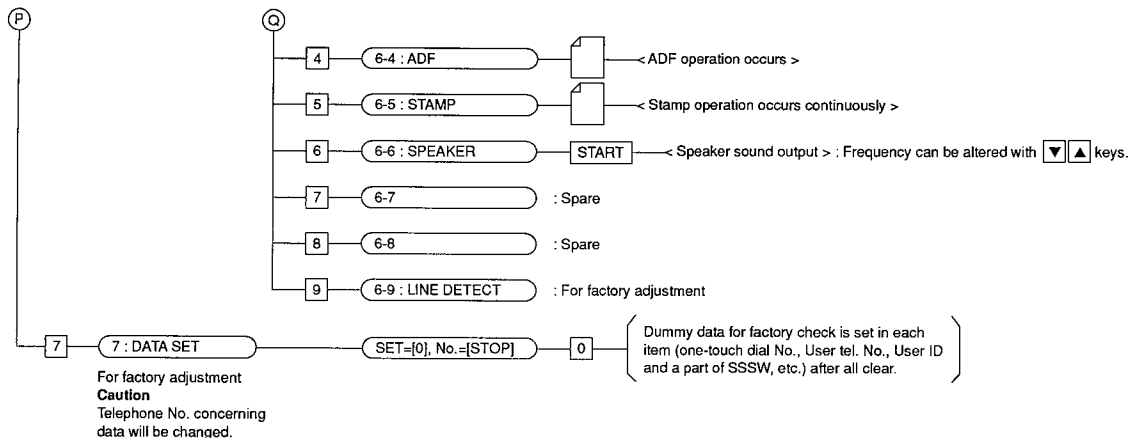
4 TEST MODE

All memory contents will be cleared when the machine returns to **STANDBY**. Therefore, all memory contents should be cleared before using the **TEST MODE**. Select the test mode with service soft switch by pressing **USER DATA**, **#**, **▲**, **SET**. To cancel the **TEST MODE**, just press **STANDBY** key or turn off the power switch. After each test, press **STOP** to continue.









DRAM test

(i) Display during test

1: D-RAM 512 K
* *

Memory size is displayed:

512 K	→	0.5 MByte
1536 K	→	1.5 Mbyte
2048 K	→	2.0 MByte
4096 K	→	4.0 MByte

* marks indicate the bank being tested.

(ii) Display when error

WRT = RD=
BANK= ADR=

WRT → Written data, RD → Read data
BANK → Bank No., ADR → Address No.

(iii) Display when OK

1: D-RAM
complete (no error)

5 HARD SWITCHES AND VARIABLE RESISTORS

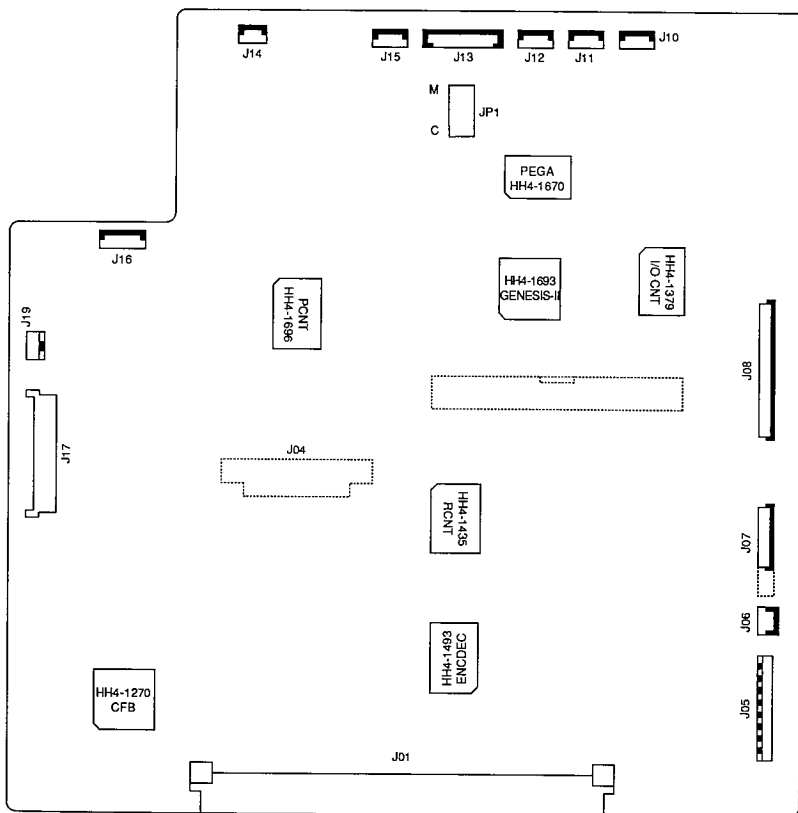
5.1 SCNT 1 Card

(HG1-2519) 120V

(HG1-2662) 230V

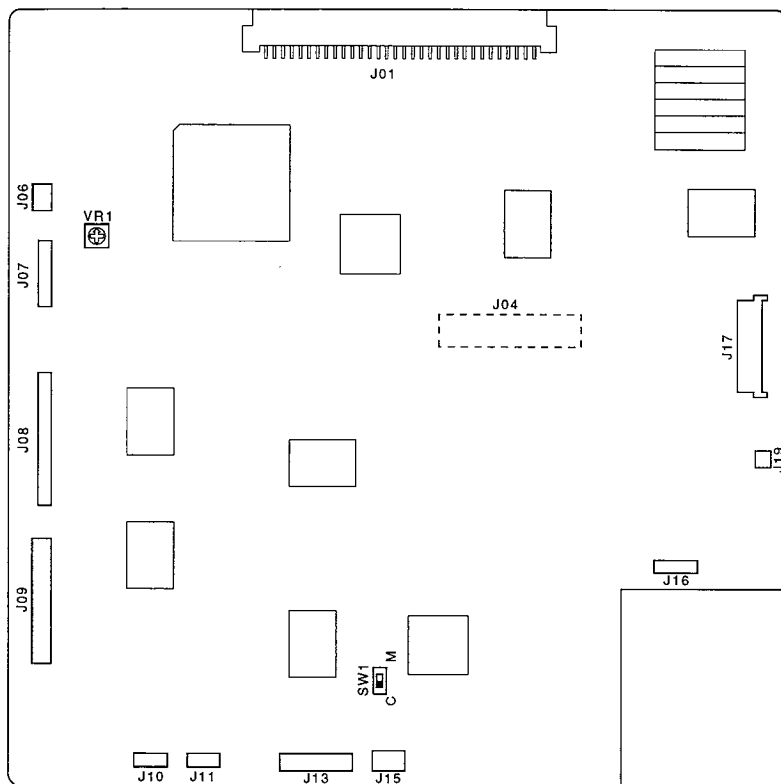
(HG1-2876) 230V

(HG1-3193) 230V



JP1: For factory use
 This JP should be M side. (120V)
 This JP should be C side. (230V)

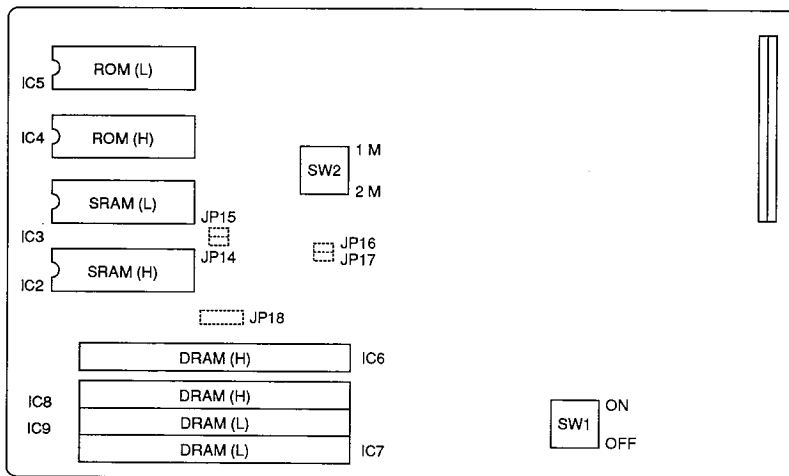
(HG1-3313) 120V L770#2/L760#2



SW1: For factory use (This switch should be C side.)
VR1: For factory use

5.2 SCNT 2 Card

(HG1-2390) 120V	(HG1-3269) 230V
(HG1-2392) 230V	(HG1-3229) 120V
(HG1-2400) 230V	(HG1-3270) 230V
(HG1-2877) 230V	(HG1-3271) 230V
(HG1-2878) 120V	(HG1-3272) 230V
(HG1-3199) 230V	(HG1-3273) 230V
(HG1-3204) 230V	



SW1: Reserved
All bit should be OFF.

SW2: ROM size switch
1 M side : Two 1 Mbit ROMs use (USA model)
2 M side : Two 2 Mbit ROMs use (EC model, RS-232C model)

Chart 5-2-1 Memory combinations (L770#1)

Total memory	1.0 Mbyte	2.0 Mbyte (*1)	2.0 Mbyte (*2)	4.0 Mbyte
IC	Standard	Memory kit 1Mbyte	Memory kit 2Mbyte	Memory kit 2Mbyte
IC8	-----	0.5Mbyte	-----	1.0 Mbyte
IC9	-----	0.5 Mbyte	-----	1.0 Mbyte
IC6	0.5 Mbyte	0.5 Mbyte	1.0 Mbyte	1.0 Mbyte
IC7	0.5 Mbyte	0.5 Mbyte	1.0 Mbyte	1.0 Mbyte

Chart 5-2-2 Memory combinations (L760#1)

Total memory	0.5 Mbyte	1.5 Mbyte
IC	Standard	Memory kit 1Mbyte
IC 6	0.25 Mbyte	0.25 Mbyte
IC 8	-----	0.5 Mbyte
IC 9	-----	0.5 Mbyte
IC 7	0.25 Mbyte	0.25 Mbyte

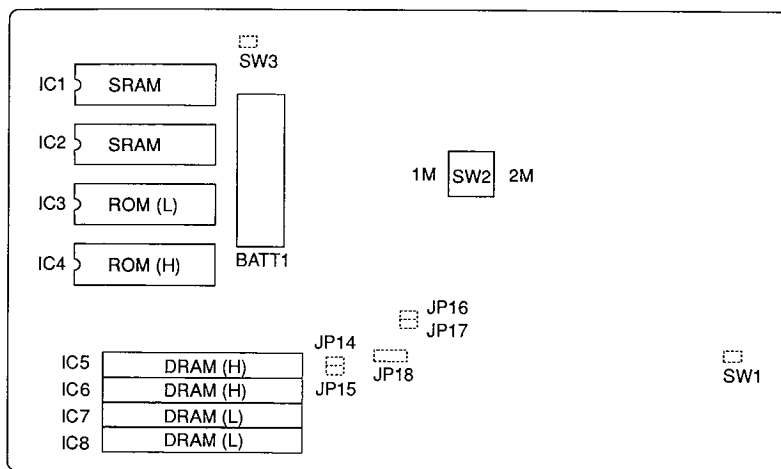
Chart 5-2-3 JP setting (L770#1)

Total memory	1.0 Mbyte	2.0 Mbyte (*1)	2.0 Mbyte (*2)	4.0 Mbyte
JP 14	Open	Open	Short	Short
JP 15	Short	Short	Open	Open
JP 16	Open	Open	Short	Short
JP 17	Short	Short	Open	Open

Chart 5-2-4 JP setting (L760#1)

Total memory	0.5 Mbyte	1.5 Mbyte
JP 14	Open	Open
JP 15	Short	Short
JP 16	Open	Open
JP 17	Short	Short

(HG1-3314) 120V/L760#2
 (HG1-3492) 120V/L770#2



SW1: Factory setting of Tone/Pulse in user soft switches.

- OPEN : Tone
- SHORT : Pulse (LATIN 120V model only)

SW2: ROM (IC3, IC4) size switch

- 1M side : For USA model
- 2M side : For other model

SW3: Back-up battery (BATT1) SW

- OPEN : OFF
- SHORT : ON

* This SW should be set to short.

Chart 5-2-5 Memory combinations (L770#2)

Total memory	1.0 Mbyte	2.0 Mbyte (*1)	2.0 Mbyte (*2)	4.0 Mbyte
IC	Standard	Memory kit 1Mbyte	Memory kit 2Mbyte	Memory kit 2Mbyte
IC5	-----	0.5Mbyte	-----	1.0 Mbyte
IC6	-----	0.5 Mbyte	-----	1.0 Mbyte
IC7	0.5 Mbyte	0.5 Mbyte	1.0 Mbyte	1.0 Mbyte
IC8	0.5 Mbyte	0.5 Mbyte	1.0 Mbyte	1.0 Mbyte

Chart 5-2-6 Memory combinations (L760#2)

Total memory	0.5 Mbyte	1.5 Mbyte
IC	Standard	Memory kit 1Mbyte
IC 7	0.25 Mbyte	0.25 Mbyte
IC 5	-----	0.5 Mbyte
IC 6	-----	0.5 Mbyte
IC 8	0.25 Mbyte	0.25 Mbyte

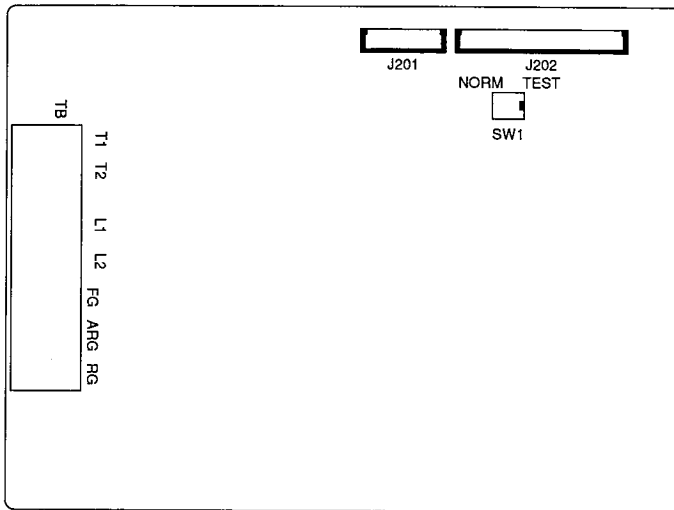
Chart 5-2-7 JP setting (L770#2)

Total memory	1.0 Mbyte	2.0 Mbyte (*1)	2.0 Mbyte (*2)	4.0 Mbyte
JP 14	Open	Open	Short	Short
JP 15	Short	Short	Open	Open
JP 16	Open	Open	Short	Short
JP 17	Short	Short	Open	Open

Chart 5-2-8 JP setting (L760#2)

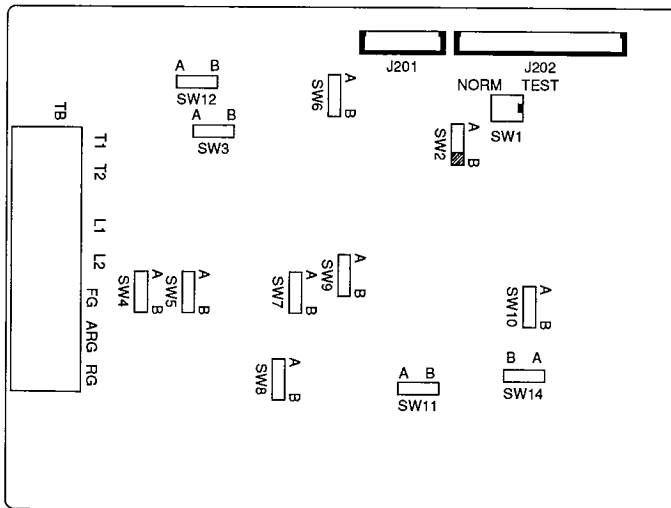
Total memory	0.5 Mbyte	1.5 Mbyte
JP 14	Open	Open
JP 15	Short	Short
JP 16	Open	Open
JP 17	Short	Short

5.3 NCU Card (HG1-2394) 120 V



SW1: Off-hook switch (In normal use set to NORM side)

(HG1-2396) 230V
(HG1-2397) 230V
(HG1-2398) 230V
(HG1-2399) 230V
(HG1-3071) 230V



SW14: only HG1-2399 for SWISS (set to B side)

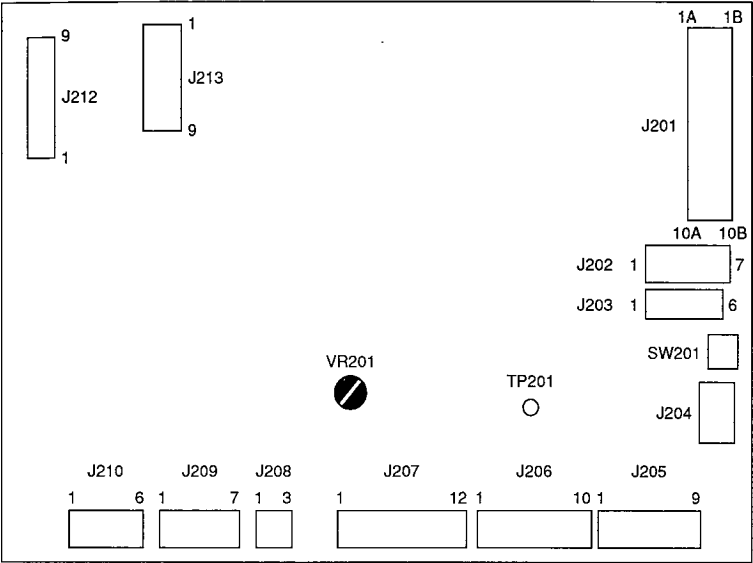
Chart 5-3-1

Nation	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11	SW12
GENERAL	OFF	A	A	A	A	A	A	A	A	A	A	C
NORWAY	OFF	A	A	A	A	A	A	A	A	B	B	C
SWEDEN	OFF	A	A	A	A	A	A	B	A	A	A	C
DENMARK	OFF	A	A	A	A	A	B	A	A	A	A	C
IRELAND	OFF	A	A	A	A	B	A	A	A	A	A	C
AUSTRIA	OFF	A	A	A	A	A	A	A	B	A	A	B
NEW ZEALAND	OFF	A	A	A	A	B	A	A	A	A	A	A
U.K. (HG1-3071)	OFF	A	B	A	A	A	A	A	A	A	A	C
SWITZERLAND (HG1-2399)	OFF	A	A	A	A	A	A	A	A	A	A	B
RESERVED	OFF	A	A	A	A	B	A	A	A	B	A	C
GERMAN (HG1-2397)	OFF	A	A	A	A	—	—	—	—	—	—	C
AUSTRALIA (HG1-2398)	OFF	A	—	—	—	—	—	—	—	—	—	—

- SW1 : Off-hook switch (in normal use set to NORM side)
 SW2 : SSSW/TEST mode setting switch
 SW3 : Out of band transmitting level switch on standby
 SW4,5 : PBX-earth connection mode switch
 SW6 : CI impedance setting switch
 SW7 : Spark killer & transient response of the loop current setting switch
 (for DENMARK)
 SW8,9 : Spark killer switch
 SW10 : Return loss adjustment switch
 SW11 : Loop resistance setting switch
 SW12 : CI voltage setting switch

5.4 DCNT Card

(HG1-2453)



SW No.	Function
SW 201	Printing test pattern

TP No.	Function
TP 201	For factory use

VR No.	Function
VR 201	Adjusting leading edge registration

5.5 Density Adjusting Card

The diagram illustrates the Density Adjusting Card with the following components and pin configurations:

- J701:** A 3-pin connector with pins 1 through 3.
- TB702:** A 3-pin connector with pins 1 through 3.
- TB701:** A 9-pin connector with pins 1 through 9.
- TB703:** A 3-pin connector with pins 1 through 3.
- VR701:** A potentiometer component.

VR No.	Function
VR 701	Adjusting primary voltage (DC) and developing bias (DC) (Valiable with print density adjustment lever)

6 ERROR CODE

The error code chart presented here is not restricted exclusively to this unit but can be used as an error code for certain other Canon facsimiles as well. Hence, error codes not relevant to this Canon facsimile are also shown.

6.1 User's Error Code

Message	Code	Cause	Remedy
CHECK DOCUMENT	#001	Document is caught in the ADF unit.	Insert document once again. Use the document cover if the sheet is not standard size.
DOCUMENT TOO LONG	#003	It takes more than 16 minutes to copy one sheet. (8 minutes with overseas specifications)	Take a copy with a copier and divide it up before sending it by facsimile.
BUSY/NO SIGNAL	#005	The partner's machine is other than G3/G2. Identification time too long or partner does not respond within 45 seconds.	Check communication mode of partner. If partner's unit is not G3/G2, no communication is possible.
POLLING ID ERROR	#008	Polling error generated due to difference in ID number (Generated at transmitter's side).	Contact polling request source. If necessary, contact service man and have ID number adjusted to match.
CHECK PAPER	#009	Paper gets stuck during reception or copying, or paper supply runs out. (Display indication only.)	Check recording paper.
—	#010	Communication control memory full. Normally, after 40 communications, memory dump takes place automatically, and this error does not arise.	After 40 communications have been dumped from memory automatically, the standby mode is assumed. If there is no recording paper at this time, memory dump occurs automatically when paper is set.
CHECK DOCUMENT	#011	Document is not set in partner's machine upon polling request.	Call the partner by telephone and have the document sent.

Message	Code	Cause	Remedy
NO RX PAPER	#012	There is no recording paper in the partner's machine during transmission.	Call the partner by telephone and have recording paper set.
—	#017	A tonal signal other than G2, G1 or OLD FM is sent from the partner's machine.	Check the communication mode of the transmitting unit.
—	#018	Automatic dialing executed but no circuit connection because of no answer or because line was busy.	Try once again.
—	#019	Memory transmission attempted but transmission data is not stored in memory. (Display indication only)	Store transmission data in memory.
POLLING ID ERROR	#021	During polling reception, DCN is received from the partner's unit even though the partner's unit is in polling standby. Example: Polling error because ID numbers do not match.	Contact the polling request source. If necessary, contact a service man and have the ID numbers made to match.
—	#022	Telephone number of an address designated for sequential broadcasting or multipolling is not registered.	Register one-touch dial telephone numbers.
—	#024	Document not set at prescribed time when sending document by delayed transmission.	Reset the document and send once again.
NOT AVAILABLE NOW	#025	Confidential and relay were set in one-touch keys simultaneously and attempt was made to use these one-touch keys.	

NOTE: 1)#005 shows error except during automatic reception operation.

2)Error shown when recording paper at receiving unit runs out.

Sending side: Display of #012 during G3 and of ##007 during G2.

Receiving side: After detecting the end mark of recording paper, if a paper within B4 size length has been received, finish is normal. If the next page is received, #009 error is indicated.

Message	Code	Cause	Remedy
NO CONFID TX	#033	No confidential function in the partners receiver unit. (Transmission side error)	Confidential transmission cannot be done.
NO CONFID TX	#034	Designated confidential box does not exist in the partner's receiver unit. Or, box cannot be used because the memory of the partner's unit is full.	Check the number of confidential box.
NO ORIGINAL RELAY TX	#035	No relay function in partner's receiver unit.	Relay transmission cannot be done./ Cannot designate relay
NO ORIGINAL RELAY TX	#036	Relay is rejected from the relay station. Or, relay station memory is full.	Relay transmission cannot be done.
—	#037	Image memory is full.	Clear unnecessary image memory. Printout confidential or memory received image.
CLOSED NETWORK ID	#039	Transmission within a closed network failed. ● Bit for closed network transmission is not set correctly on the transmission side. ● Bit for closed network reception is not set correctly on the reception side. ● Closed network IDs do not match.	Confirm that all settings relating to closed network are correct.
STOP KEY PRESSED	#099	Stop key has been pressed	Try once again.

6.2 Error Code for Service Man

6.2.1 G2 mode error code

Code	Cause
##003	MCF2 reception cannot be done with G2 transmission.
##004	EOM2 or PIS cannot be received with G2 reception. Or Carrier Detect (CD) signal is not detected for over one second.
##006	Phase synchronization cannot be obtained with G2 reception. (After second sheet)
##007	CFR2 cannot be received with G2 transmission.
##010	Phase alignment of G2 cannot be done upon reception using the telephone network (First sheet only)
##011	Image signal cannot be received within five seconds after G2 mode image reception operation.
##012	EOM is received, then after MCF, G12 is sent and signal other than PIS or GC2 is received.

6.2.2 G3 mode error code

Code	Cause
##100	Excessive command retransmission in G3 mode (fourth time) (other than # #280 – # #290) Normal
##101	Data rate incompatible with G3 transmission. Example: speed or partner's modem does not match.
##102	Fall back impossible with G3 transmission. FTT is received with training check, but CFR not received despite two checks at 2400bps.
##103	EOL can not be detected for 5 seconds in G3 mode. (For 60 seconds in CBT mode) 1 line maximum transmission time excess.
##104	RTN received in G3 mode. Image assessment standard: Setting possible by soft switch. Default values: 1. 10% or more error lines generated among all lines. 2. Error generated for 12 consecutive lines (Burst error) 3. Consecutive error from 2 to 11 lines occurs 15 or more times on one page.
##106	Commands cannot be received for 6-second interval during command reception in G3 mode. (T2 time over: other than ##292, ##293, ##294) Finish when there is no response from partner's unit after MCF transmission. (EOP reception)
## 107	Transmitting unit cannot fall back during G3 reception (Upon 2400BPS reception, RTN or FTT is sent and DCN is received.)
##108	Polarity conversion detected during G3, MF2 transmission. (Abnormality generated with STOC. Or receiving side releases circuit during G3 exchange.

Code	Cause
##109	A binary signal other than DIS, DTC, CFR or FTT is received after DCS transmission. Excessive command retransmission.
##111	Error is generated in the data during printout of data stored in image memory.
##114	RTN has been transmitted in G3 mode.
##200	Carrier is not detected for 6 seconds.
##201	DCN is received with other than normal transmission sequence during binary sequence in G3 mode.
##202	CD not dropped during binary sequence in G3 mode. (Noise level is high and binary signal space cannot be detected.)
##204	DTC received even though there is no transmission data in your own unit.
##224	Trouble occurred in G3 procedure.
##232	Control IC encoding is not complete.
##237	Control IC decoding is not complete.
##295	Same as code # #232.

Note) The IC referred to in codes # #232 and # #237 above is the DICEP IC for FAX-850 and FAX-L770. The IC converts raw data into MH/MR/MMR code and vice versa.

Code	Cause
##280	Image memory error/After TCF transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##281	After EOP transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##282	After EOM transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##283	After MPS transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##284	DCN received after TCF transmission
##285	DCN received after EOP transmission
##286	DCN received after EOM transmission
##287	DCN received after MPS transmission
##288	Signal other than expected signal is received after EOP transmission.
##289	Signal other than expected signal is received after EOM transmission
##290	Signal other than expected signal is received after MPS transmission
##291	After reception of the first DTC, and while waiting for the second or subsequent DTC signals, another type of signal is received.
##292	T2 (6 seconds) time over upon reception of G3 mode command (NODE: F:See CCITT reception flow) (EOL down received for five seconds)
##293	T2 (6 seconds) time over upon reception of G3 mode command (NODE: F:See CCITT reception flow) (CD not detected for six seconds)
##294	T2 (6 seconds) time over upon reception of G3 mode command (NODE: F: See CCITT reception flow (Commands cannot be received after transmission of RTN or PIN with defective image.)

6.3.3 ECM mode error code

Code	Cause
##750	After PPS-NULL transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##751	Signal other than expected signal is received after PPS-NULL transmission.
##752	DCN received after PPS-NULL transmission.
##753	RNR received after PPS-NULL transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmission or T5 time is excessive.
##754	PPR is received n times after PPS-NULL transmission. Then after CTC transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##755	After PPS-MPS transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##756	Signal other than expected signal is received after PPS-MPS transmission.
##757	DCN received after PPS-MPS transmission.
##758	RNR received after PPS-MPS transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmit frequency or T5 time is excessive.
##759	PPR is received n times after PPS-MPS transmission. Then after CTC transmission, appropriate signals cannot be received and there is an excess of command retransmit frequency.
##760	After PPS-EOM transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##761	Signal other than expected signal is received after PPS-EOM transmission
##762	DCN received after PPS-EOM transmission.
##763	RNR received after PPS-EOM transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmission or T5 time is excessive.
##764	PPR is received n times after PPS-EOM transmission. Then after CTC transmission, appropriate signals cannot be received and there is an excess of command retransmit frequency.
##765	After PPS-EOP transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##766	Signal other than expected signal is received after PPS-EOP transmission
##767	DCN received after PPS-EOP transmission.
##768	RNR received after PPS-EOP transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmission or T5 time is excessive.

Code	Cause
##769	PPR is received n times after PPS-EOP transmission. Then after CTC transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##770	After EOR-NULL transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##771	Signal other than expected signal is received after EOR-NULL transmission.
##772	DCN received after EOR-NULL transmission.
##773	RNR received after EOR-NULL transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmission or T5 time is excessive.
##774	ERR is received after EOR-NULL transmission but the next transmission is not continued.
##775	After EOR-MPS transmission, appropriate signals cannot be received and there is an excess of command retransmission.
## 776	Signal other than expected signal is received after EOR-MPS transmission
##777	DCN received after EOR-MPS transmission
##778	RNR received after EOR-MPS transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmission or T5 time is excessive.
##779	ERR is received after EOR-MPS transmission but the next transmission is not continued.
##780	After EOR-EOM transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##781	Signal other than expected signal is received after EOR-EOM transmission.
##782	DCN received after EOR-EOM transmission.
##783	RNR received after EOR-EOM transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmission or T5 time is excessive.
##784	ERR is received after EOR-EOM transmission but the next transmission is not continued.
##785	After EOR-EOP transmission, appropriate signals cannot be received and there is an excess of command retransmission.
##786	Signal other than expected signal is received after EOR-EOP transmission
##787	DCN received after EOR-EOP transmission.

Code	Cause
##788	RNR received after EOR-EOP transmission. Then after RR transmission, appropriate signals cannot be received and there is an excess of command retransmission or T5 time is excessive.
##789	ERR is received after EOR-EOP transmission.
##790	EOR-Q or ERR is received.
##791	Other than appropriate signal is received during sequence in ECM mode.
##792	Ejection of an appropriate command in excess of scheduled time during partial page processing while receiving in the ECM mode is detected.
##793	Ejection of a valid frame in excess of the prescribed time during high-speed signal reception in CEM mode is detected.
##794	Upon retransmission, there is no data to be transmitted. (PPR of all 0 is received).

7

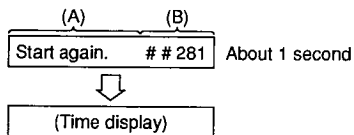
ERROR CODE OUTPUT FORMAT

The LCD display when there is an error and the print format change according to the settings of the user soft switch (user SW) and service soft switch. Here are some samples.

User soft switch TX REPORT RX REPORT	SSSW [#]SW01		LCD display		Print			
	bit 0	bit 1	(A)	(B)	(C)	(D)	(E)	(F)
Not output	0	0	○	—	—	—	—	—
Not output	1	0	○	○	—	—	—	—
Output	0	0	○	—	○	○	—	—
Output	1	0	○	○	○	—	○	—
×	0	1	○	—	○	—	—	○
×	1	1	○	○	○	—	○	○

Note: X indicates there is no relation between "Output" and "Not output."

● LCD display



CHAPTER 3

INSTALLATION

1

INSTALLATION DETAILS

1.1 Precautions

1. Always allow an interval of at least three seconds when turning power switch OFF and ON.
2. Check whether an electric current is present within one minute after turning the power switch ON. At this time, the LCD display indicates "PLEASE WAIT" and no key can be used to input data.
3. When registering any item of data, always set the Registration switch to ON. When registration is complete, always turn the registration switch back OFF.
4. When moving a cold machine into a warm room, leave it for about one hour to gradually warm up.

A rapid change of temperature causes dew in the LBP optical system, which will cause LBP error.

Refer to Chapter 2 page 2-66 for details on how to treat an LBP error.

1.2 Unpacking and Accessories Confirmation

120 V model	230 V model
• Main unit • Document tray • Eject Paper tray • Extension tray • Handset unit • Handset holder • Handset holder support L770 only • Modular jack cord L770 only • Cassette Paper (letter) L770 only • Address label • Instruction book (English) • Limited warranty note • Installation completion report	• Main unit • Document tray • EJECT Paper tray • Program Key LABEL • Modular Cover • Cassette Paper (A4) • Address LABEL • Reference card (English) • Modular COVER • Screw (M3 × 6)

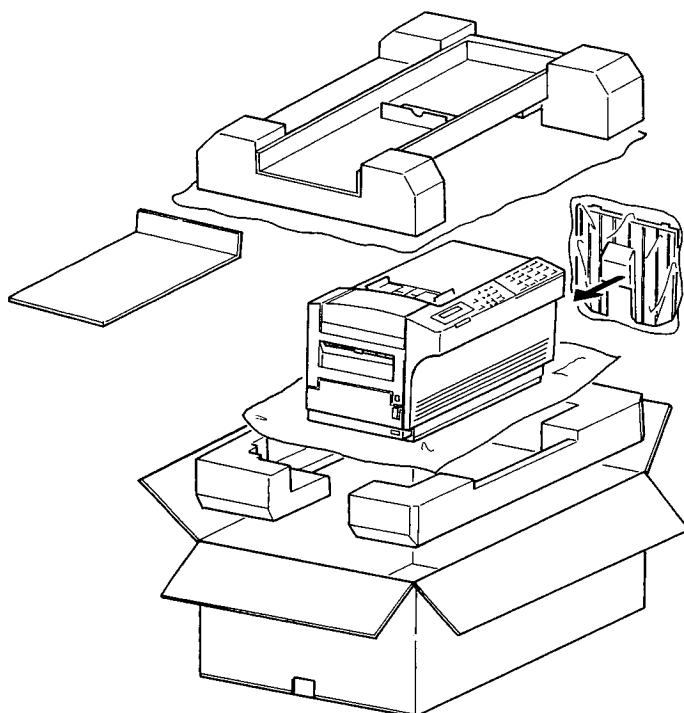


Figure 3-1-1

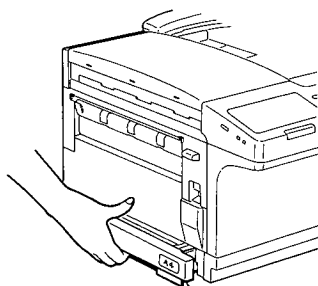
2 INSTALLATION PROCEDURE

2.1 Paper Cassette Setting

Please use the specified toner cartridge (FX-1). Other types of cartridge may cause problems.

Please perform the roller cleaning operation described in page 2-66 whenever the cartridge is replaced.

1. Remove the cassette as shown in the figure.



Paper cassette

2. Set recording paper in the cassette, then set the cassette in the main unit again.

Figure 3-2-1

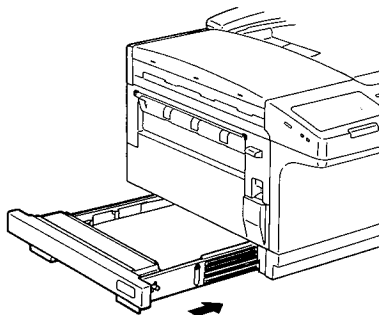


Figure 3-2-2

2.2 Toner Cartridge Setting

Note: Please use toner specifically designed for facsimile use.

1. Open the printer cover.

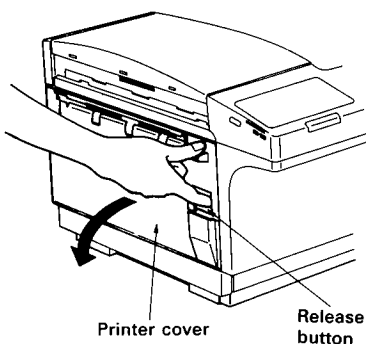


Figure 3-2-3

2. Open the printer cover, then remove the two spacers.

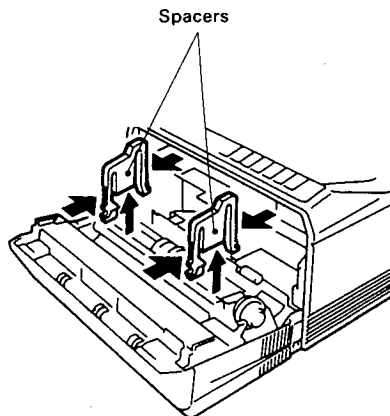


Figure 3-2-4

3. Open the cartridge box and take out the aluminum cartridge bag. Then open the aluminum bag and take out the cartridge.

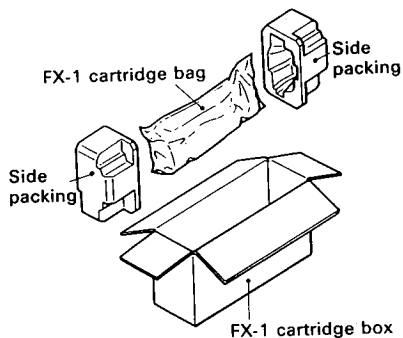


Figure 3-2-5

4. Hold the both ends of the cartridge horizontally by both hands. Slowly rock the cartridge by 45 degrees in the vertical direction (5 or 6 times) to distribute toner evenly.

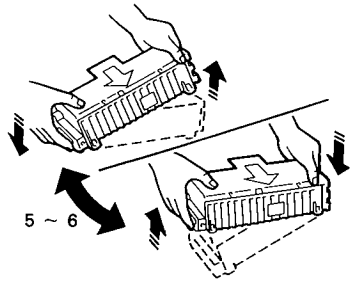


Figure 3-2-6

5. Place the cartridge on a flat surface. Hold the top surface with one hand and pull out the orange tab with the other to remove the sealing tape.

6. Set the cartridge in the printer unit while holding the tab which is located on the upper part of the cartridge.

Note: When setting the cartridge in the printer unit, make sure to insert it until it reaches the bottom.

7. Close the printer cover.

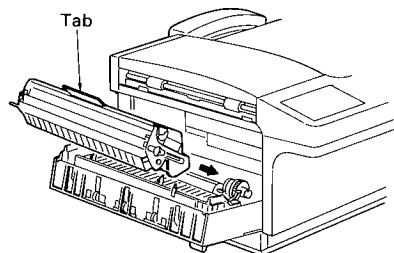


Figure 3-2-7

2.3 Test Copy

Copy to check the operation and copied image.

2.4 Telephone (Handset) Connection (L770 only)

Insert the supplied handset into the modular jack of the main unit.

- The 230 V model is not provided with a handset.
- The modular jack of the 230 V model has 6 pins.

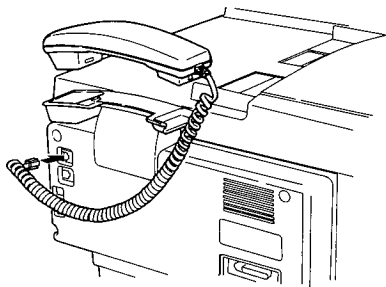


Figure 3-2-8

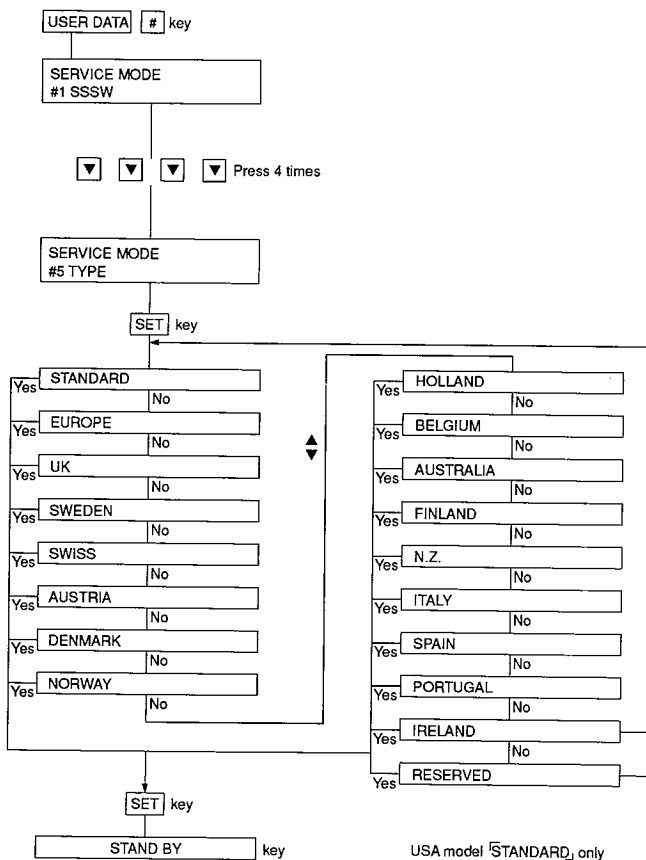
2.5 Clear Operation

Step	Operation	Display	Remarks
1	USER DATA #	SERVICE MODE #1 SSSW	
2	Set LCD display for CLEAR with ▼ or ▲ key.	SERVICE MODE #7 CLEAR	
3	SET	#7 CLEAR TEL	
4	Set LCD display for ALL with ▼ or ▲ key.	#7 CLEAR ALL	
5	SET	#7 CLEAR TEL	All set data are cleared (value initialization)

2.6 Setting Type (230 V model only)

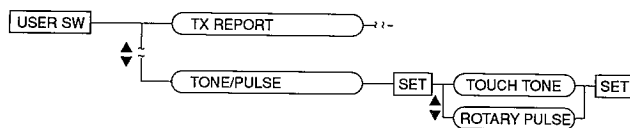
This operation automatically sets the initial values for each country.
The following are set automatically.

DIAL TONE	MULTI
2nd DIAL TONE	AUTO RX
BUSY TONE	SPECIAL
REDIALING	(TONE/PULSE)



2.7 PB/DP (Pulse/Tone)

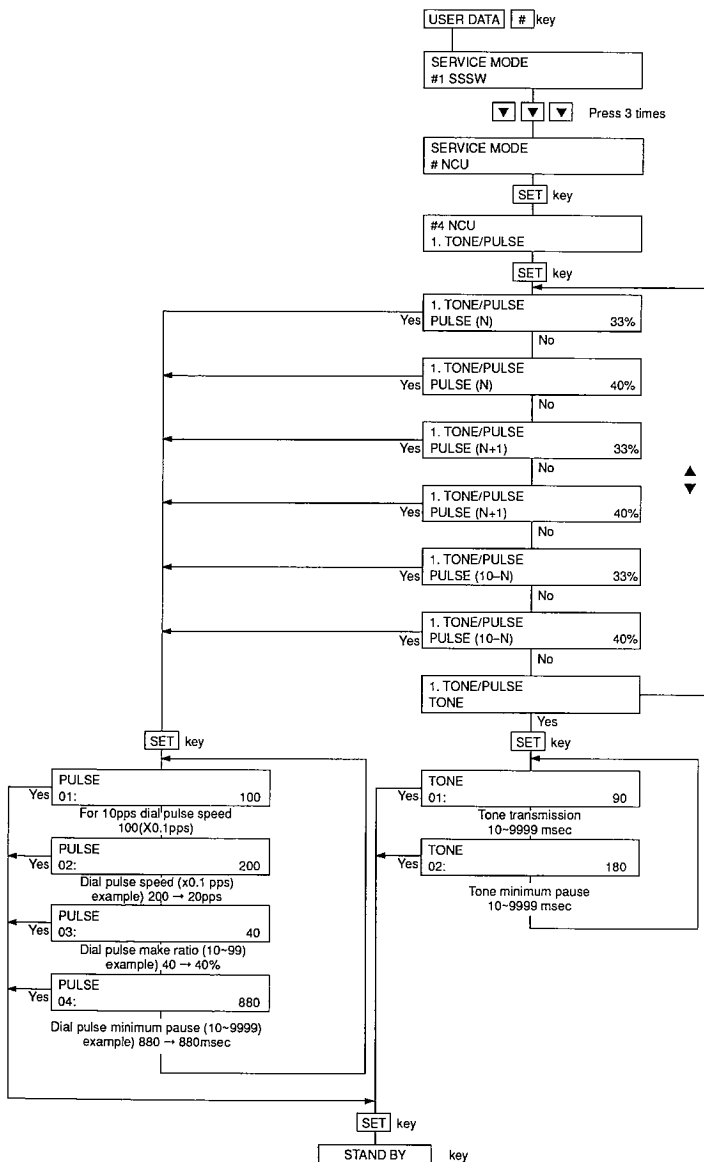
2.7.1 Facsimile side setting



- ROTARY PULSE: When using pulse dial (DP) line
- TOUCH TONE: When using tone dial (PB) line

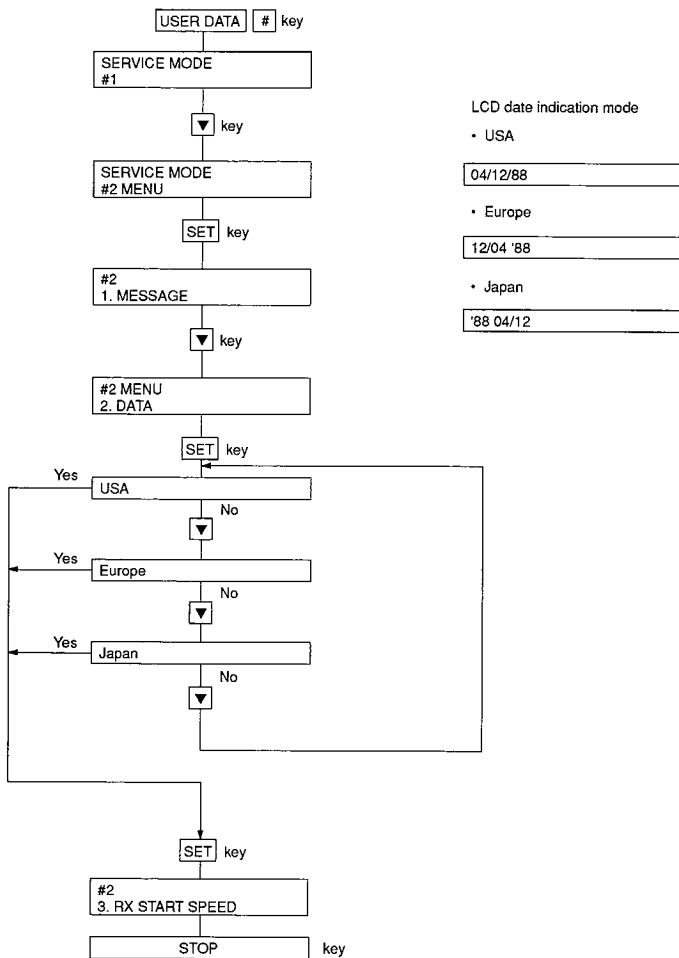
2.8 Setting Tone/Pulse Parameter (230 V model only)

Tone/pulse parameter will be set automatically when Type has been set.
But must be registered parameter for subscriber line parameter according to user's subscriber line as PB/DP parameter



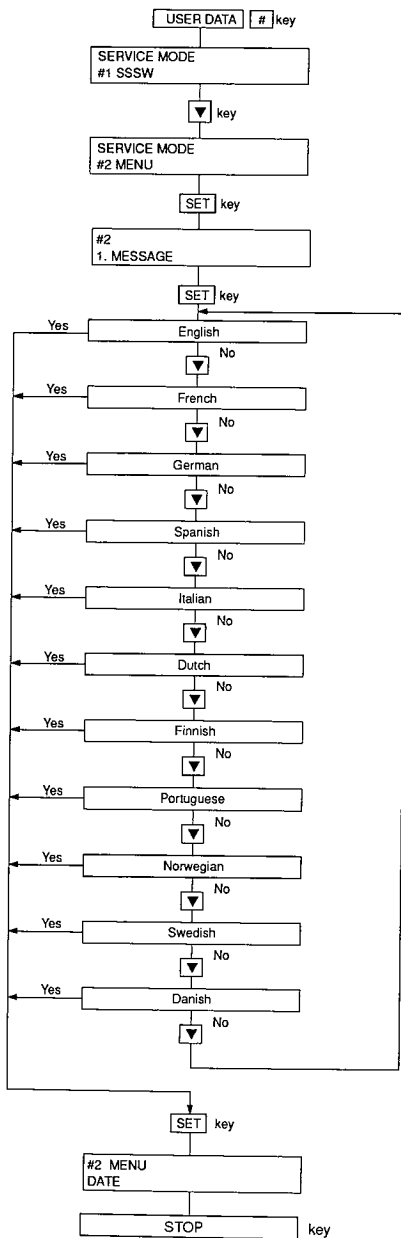
2.9 Setting Date Indication mode

Use this procedure to change the LCD date indication mode.



2.10 Setting Message

Use this procedure to change indications appearing on the LCD and on reports.

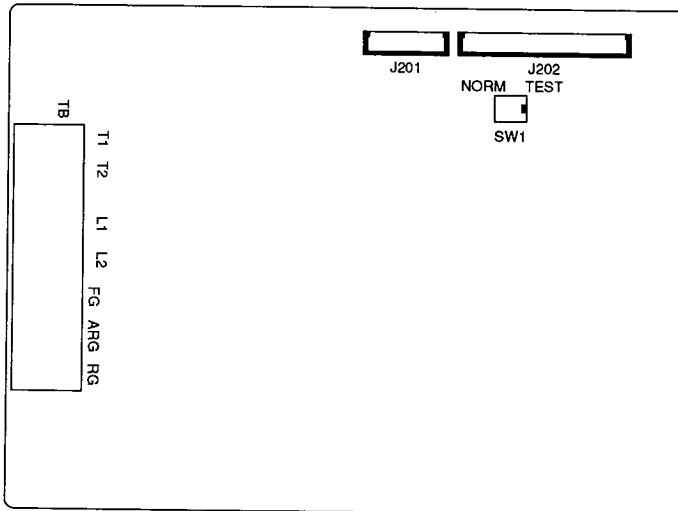


For the USA model:
English, French and
Spanish only can be selected.

2.11 Various checks

2.11.1 NCU Card

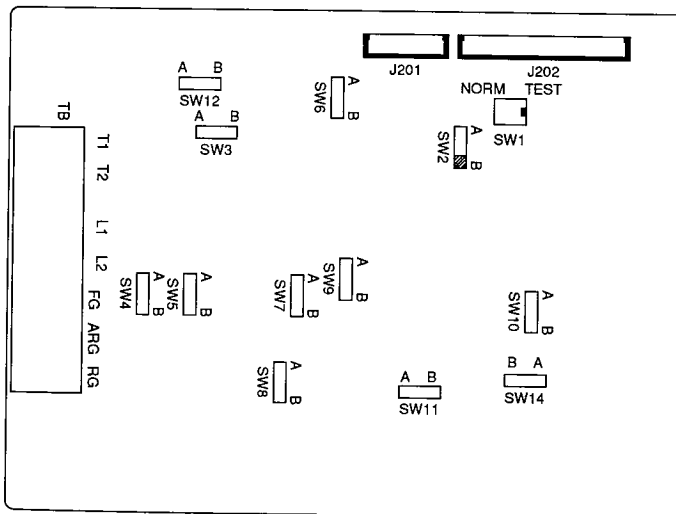
[120 V model]



Confirm that the SW1 (NORMAL/TEST switch) is set to the NORMAL side. (The SW1 is set to the NORMAL side at the time of shipment.)

The SW1 of the NCU can be set when removing the entry SW cover (refer to "Parts Catalog").

[230 V model]



SW14: Only HG1-2399 for SWISS (set to B side)

2.12 Telephone Line Connection

Line polarity need not be matched for this unit.

(Polarity also need not be registered)

1. Connect the line cord to the modular jack as shown in the figure.

- Since the wiring of the 230 V model differs in some countries, route the wiring according to the conditions of the country where the model is to be installed.

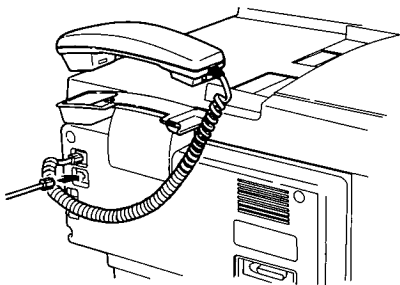
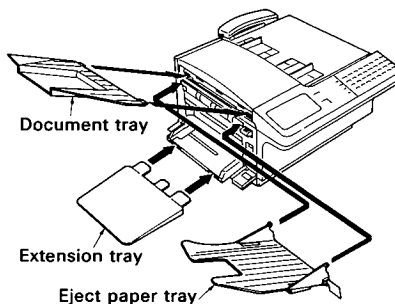


Figure 3-2-9

2.13 Trays and Manual Feed Paper Setting

1. Install the Document tray, Extension tray, and Eject paper tray in the main unit.



2. Set the paper on the Extension tray.

Figure 3-2-9

3

INSTALLATION TEST

3.1 Communication Test

1. Make copy and check image for irregularities.
2. Check transmission and automatic reception.
3. Make sure that your unit ID and telephone number are recorded on the transmission image.
4. If the image or communication is defective, refer to Chapter 4 "How to Repair."

Attention: If the facsimile machine does not operate normally, refer to Chapter 2 and make sure that all soft switches and all hard switches are set properly.

3.2 Adjustment Items

1. Transmission level adjustment.

The transmission level can be adjusted through soft switch setting. If adjustment is necessary, refer to "Service Soft Switch Registration" in Chapter 2.

2. NL adjustment

The NL value can be adjusted by setting the service soft switches.

- The NL value is set for 4dB when the machine is shipped from the factory.
- To alter this setting, refer to "Service Soft Switch Registration" in Chapter 2.

3. Link equalizer

The link equalizer value can be adjusted by setting the service soft switches.

- The link equalizer value is set for "0dB" when the machine is shipped from the factory.
- To alter this setting, refer to "Service Soft Switch Registration" in Chapter 2.

4. Speaker volume adjustment

Speaker volume can be adjusted with the volume control knob shown in the figure.

5. Print density adjustment lever.

The print density adjustment lever can be seen when the printer is opened. It is used to adjust the print density.

If this lever is moved in the left direction, the print density becomes lighter.

There are two click positions for print density adjustment lever and the lever has four settings from left to right. Normally, the lever should be set to the position of right click as shown below.

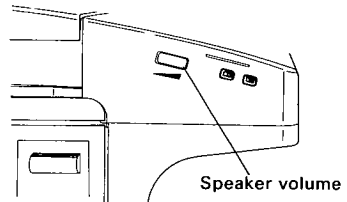


Figure 3-2-1

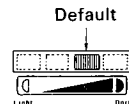


Figure 3-2-2

(Open the front cover and use the lever to select the printing density.)

CHAPTER 4

HOW TO REPAIR

1

CONCERNING REPAIRS

CAUTION

Replace the lithium battery only with the one listed in the Parts Catalog.

Use of another battery may present a risk of fire or explosion. The battery may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble or dispose of in fire. Keep the battery out of reach of children and discard used battery promptly.

1.1 Checks Before Repairing

Always turn off the power switch before repairing and check the following items.

- (1) Are all the connectors connecting each unit and each sensor fully inserted?
- (2) Is the power supply cord plugged in securely?
- (3) Have the modular jacks and the telephone circuit been connected properly?

1.2 Precautions

- (1) Always turn off the power switch and remove the power supply before replacing any units, or inserting or removing any connectors.
- (2) Do not touch the metallic parts of connectors, as this may lead to poor connections.
- (3) When inserting connectors, be sure to insert them fully and in the correct direction.
- (4) When reassembling the battery and turning ON the power again after pulling out the battery for disassembly or servicing, Activity report is output continuously.
Countermeasure: Turn ON the power while pressing the **MONITOR** key.
Then carry out the all clear operation:

USER DATA **#** **▲** **▲** **▲** **SET** **▲** **SET**

1.3 Special Tools and Adjustment/Setting

- (1) This unit does not require any special tools.
- (2) When replacing any of the components shown below, registration data of one-touch dial, each soft switch, etc., must be reset.
 - SCNT 2 card
 - Battery
- (3) Slice level
The slice level is adjusted by the service soft switch according to user preference. This slice level adjustment, however, is effective only during pure binary processing; it is not effective with half-tone.
Operation: See Chapter 2.

2

TROUBLESHOOTING

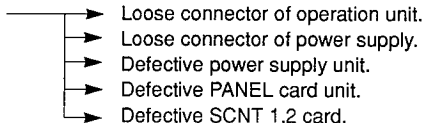
What follows here is a list of the main suspect areas of the most common troubles. The actual cause of the trouble, however, may be different from that given here.

2.1 LBP Error with Image Data in the Memory

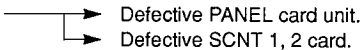
Press **USER DATA** **#** ***** **1**, so as not to erase the image data. Refer to page 2-65 for details.

2.2 Display

(1) LCD does not display at all.

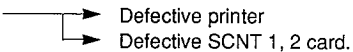
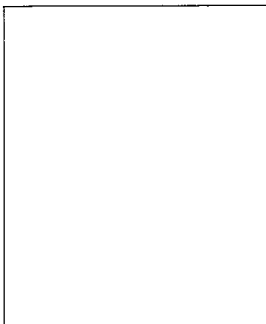


(2) Poor LCD display

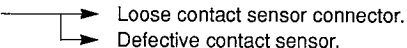


2.3 Copied Images

(1) All white (Make sure that document or recording paper has not been turned up-side down.)

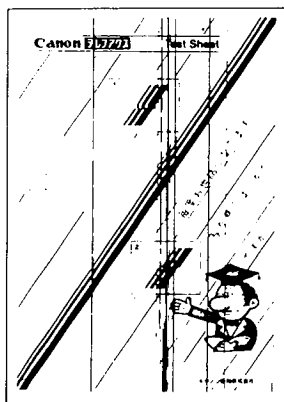


(2) All black



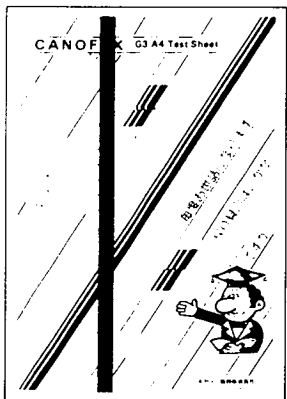
(2) Black lines

Type 1 (Black lines are notched and uneven in thickness)



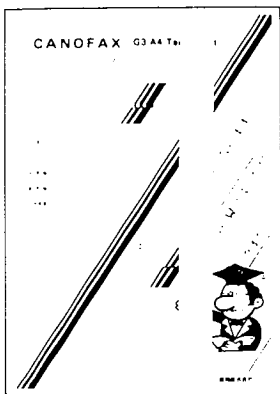
→ The glass on the document table is dirty.

Type 2 (Black line is one solid line of even thickness)



→ Defective contact sensor.
→ Defective printer.
→ Defective SCNT 1, 2 unit.

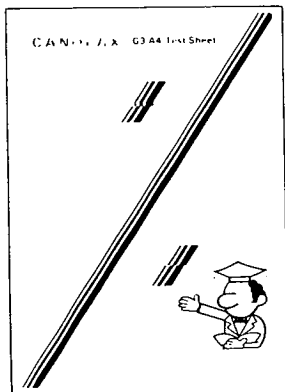
(3) Blank segment



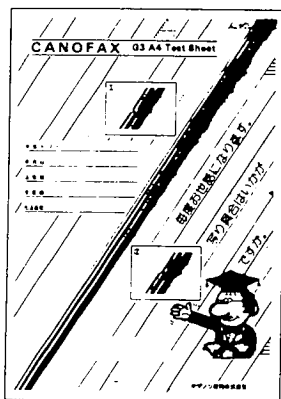
- Defective printer.
- Defective SCNT 1, 2 card.
- Defective contact sensor.

(4) Image color is too light or too dark

- Defective slice level adjustment (time of pure binary processing only).
- Unsatisfactory print density adjustment.



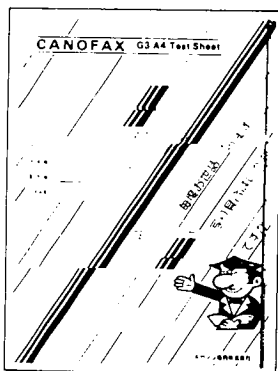
(5) Blurred Image → Contact sensor.



2.4 Reception Image

If there is a defective reception image, first take a copy of another image, and if the latter is defective, the problem may be with the machine itself. In this case, refer to "2.2 Copy Image" and ascertain the malfunction. If the copied image is normal, the partner's machine, or the circuit, may be defective.

• Line skip → Defective circuit.



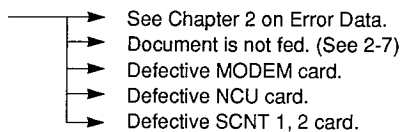
2.5 Keys

- (1) Set document and press START key.
- The recording paper is cut normally.
 - Document not set securely. Loose document sensor (DS) connector.
 - Defective document sensor.
- (2) Key does not work during various types of registration.
- Registration switch at side of operating component is OFF.
 - Defective PANEL card.
 - Defective SCNT card.
- (3) Key inputs cannot be made
- Some key is locked. (Key is stuck.)
 - Defective PANEL card.
 - Defective SCNT 1, 2 card.

2.6 Transmission

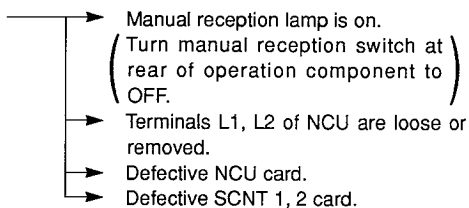
- (1) Cannot do auto dialing (One-touch speed dialing, Coded speed dialing, Ten key dialing)
- Defective setting of PB/DP, 10 pps/20pps.
 - Loose NCU card connector SCNT.
 - Loose or removed NCU terminals: T1, T2, L1, L2.
 - Defective NCU card.
 - Defective PANEL card.
 - Defective SCNT card.
- (2) Cannot dial from handset
- Defective setting of PB/DP, 10pps/20pps.
 - Wiring between handset and NCU card is cut.
 - Loose or removed NCU terminals: T1, T2, L1, L2.
 - Defective handset.

- (3) Cannot transmit even when connected to partner Error displayed.

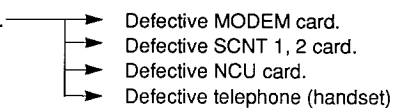


2.7 Reception

- (1) Automatic reception cannot be done



- (2) Manual reception cannot be done.



3

UNIT REPLACEMENT/ADJUSTMENT

Note: When re-assembling, grounding wires must be fixed to their original position.

3.1 Removal of Rear Cover and Side Cover

1. Press the release button and open the printer cover.

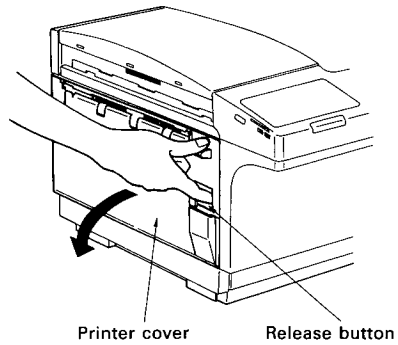


Figure 4-3-1

2. Unscrew the two screws and remove the rear cover and side cover.

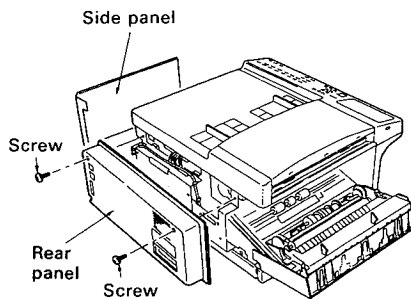


Figure 4-3-2

3.2 NCU Card Replacement

3.2.1 Removal

1. Remove the rear cover and side cover (fixed with two screws).
2. Remove the four screws and then remove the NCU cover.

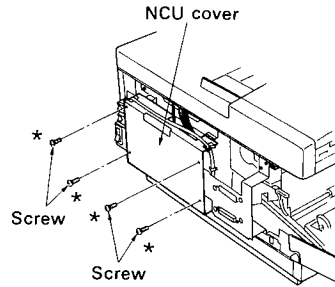


Figure 4-3-3

3. Remove the modular cord which is connected to the T1, T2, L1, and L2, and ARG on the NCU card. Remove connectors J201 and J202 shown in the figure, then remove the three screws and the NCU card.

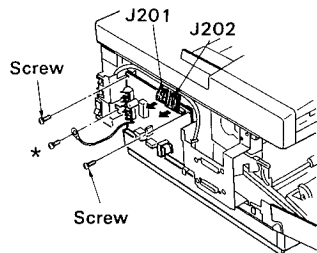


Figure 4-3-4

3.2.2 Installation

Install the NCU card in the reverse order of its removal.

3.3 ROM Replacement

3.3.1 Removal procedures

1. Remove the rear cover and side cover (fixed with two screws).
2. Remove the five screws shown in the figure.
Lift up the upper cover, pull out the connector and remove the upper cover.

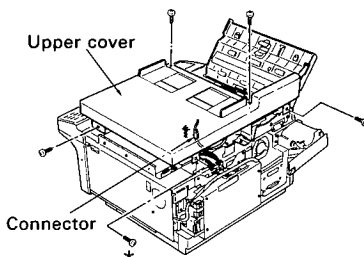


Figure 4-3-5

3. Remove the three screws shown in the figure and remove the SCNT2 plate.

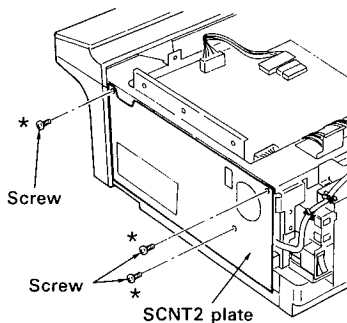


Figure 4-3-6

4. Remove the two ROMs (IC4 and 5) from the SCNT2 card.

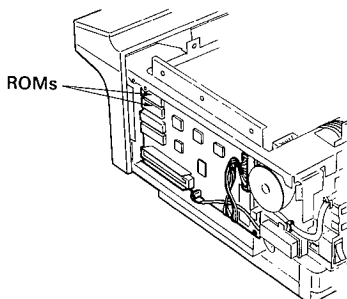


Figure 4-3-7

3.3.2 Installation

Install the ROMs in the reverse order of their removal.

3.4 Modem Card, SCNT1 Card and SCNT2 Card Replacement

3.4.1 Removal

1. Remove the rear cover and side cover (fixed with two screws). Remove the five screws shown in the figure, lift up the upper cover, pull out the connector and remove the upper cover.

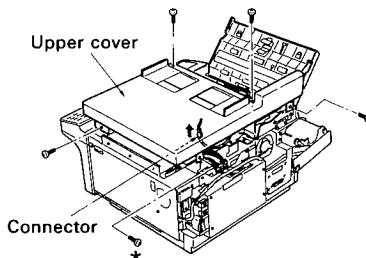


Figure 4-3-8

2. Remove the eight screws shown in the figure and remove the SCNT1 plate.

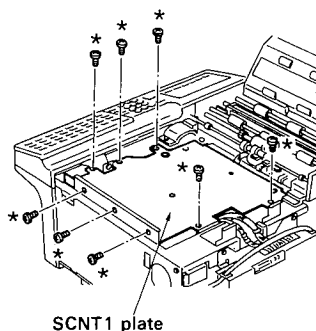


Figure 4-3-9

3. Pinch the locking support shown in the figure with a pair of pliers or similar tool, and remove the modem card from the SCNT1.

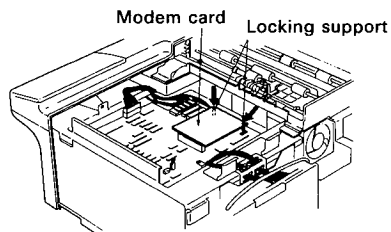


Figure 4-3-10

4. Remove the three screws shown in the figure and remove the SCNT2 plate.

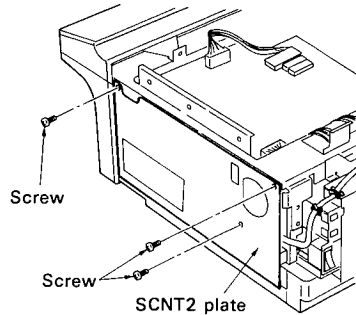


Figure 4-3-11

5. Remove the two screws shown in the figure and remove the plate holding the SCNT2 card.

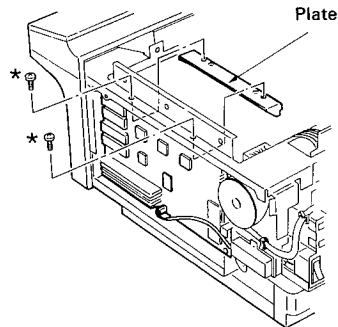


Figure 4-3-12

6. Remove all connectors except connector ① on the SCNT card. Remove the four screws shown in the figure, and remove the screw which fixes the ground wire of the SCNT1 card. Remove connector ①, then remove the SCNT1 card. (At this time, lift up the SCNT1 card slightly and confirm that its bottom connector is detached, then remove connector ①).

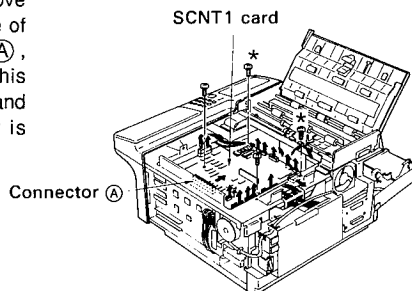


Figure 4-3-13

7. Pull out the battery connector J3 from the SCNT2 card. (L770 #1 & L760 #1)
Then remove the two screws and remove the SCNT2 card.

Note: L770 #2 & L760#2: The jumper plug which shorts SW3, is not replaced along with the SCNT2 card. Therefore, always be sure to re-short SW3 with the jumper plug when replacing the SCNT2 card.

In case the battery cord or jumper plug has to be pulled out for removing the SCNT2 card, turn on the power as described in page 4-1, 1-2, Precautions (4).

When handling the SCNT2 card, if the jumper plug which shorts SW3 or the battery cord is removed, all of the data backed up by the lithium battery will be lost. Therefore, be sure never to remove the jumper plug or the battery cord except when replacing the SCNT2 card.

- For the 120V model, set SW2 to the 1M position.
- For the 230V model, set SW2 to the 2M position.

3.4.2 Installation

Install the connectors in the reverse order of their removal.

3.5 Facsimile Power Supply Unit Replacement

3.5.1 Removal

1. Remove the NCU cover while referring to "3.2 NCU Replacement". (for 230 V model only)
2. Remove the SCNT2 card while referring to "3.4 Modem Card, SCNT1 Card, and SCNT2 Card Replacement".
3. Unscrew the four screws and remove the connector, then pull out the facsimile power supply.

Note: Re-attach the (A) screw to the power supply unit after removing the ground wire.

3.5.2 Installation

Install the power supply unit in the reverse order of its removal.

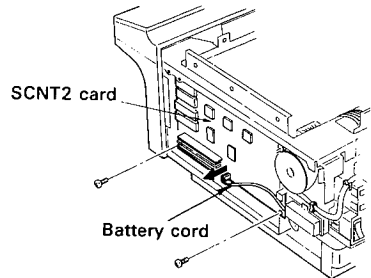


Figure 4-3-14

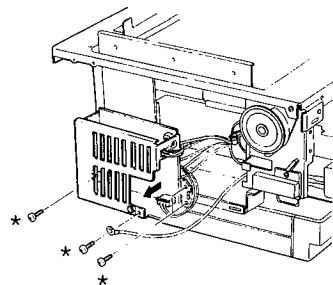


Figure 4-3-15

3.6 Operation Unit Replacement

3.6.1 Removal

1. Remove the rear cover and side cover.
2. Remove the five screws shown in the figure. Lift up the upper cover, pull out the connector and remove the upper cover.

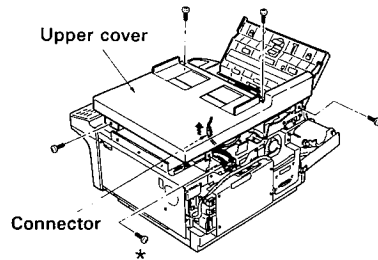


Figure 4-3-16

3. Remove the eight screws and remove the SCNT1 plate.

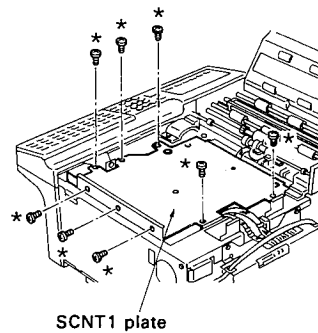


Figure 4-3-17

4. Open the printer cover and remove the screw shown in the figure.

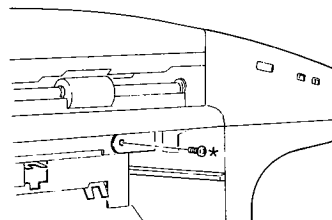


Figure 4-3-18

5. Remove connector J17 from the SCNT1 card, and remove the screw which fixes the ground wire.

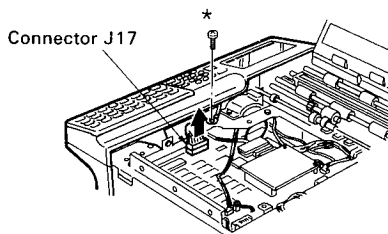


Figure 4-3-19

6. Remove the screw shown in the figure while holding the operation unit with your hands.

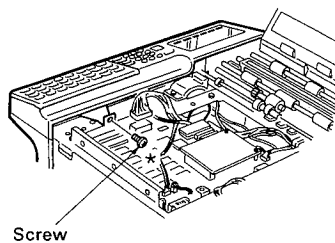


Figure 4-3-20

7. Remove the operation unit from the main unit, taking care not to drop it.

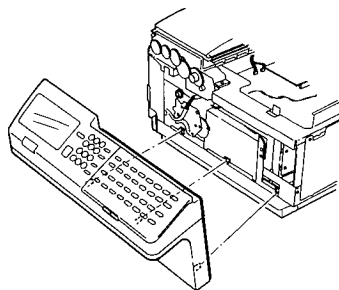


Figure 4-3-21

8. Disassemble the operation unit as shown in the figure.

3.6.2 Installation

Install the operation unit in the reverse order of its removal.

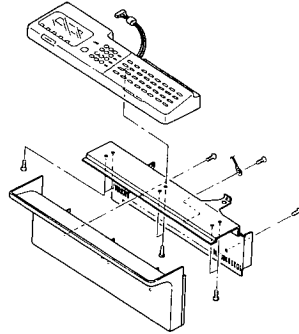


Figure 4-3-22

3.7 DCNT Card Replacement

3.7.1 Removal

1. Remove the SCNT1 card and SCNT2 card while referring to "3.4 Modem Card, SCNT1 Card, and SCNT2 Card Replacement".
2. Remove the operation unit while referring to "3.6 Operation Unit Replacement".
3. Remove the five screws which fix the ground wires. (Remove the four screws for 230 V model)

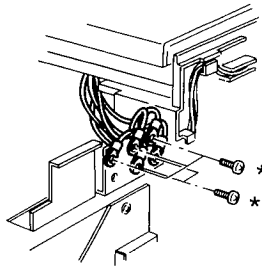


Figure 4-3-23

4. Remove the five screws shown in the figure and remove the ADF unit.

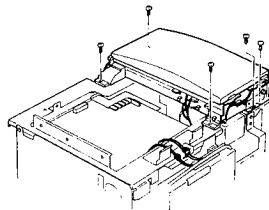


Figure 4-3-24

5. Remove the two screws shown in the figure, and remove the plate.

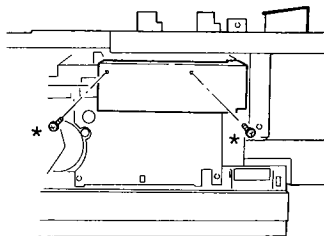


Figure 4-3-25

6. Remove the four screws shown in the figure, remove the four screws which fix the ground wire, and remove the DCNT card shield plate.

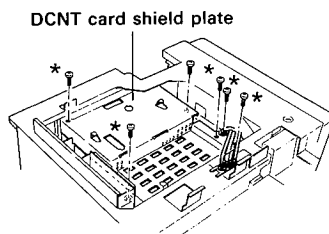


Figure 4-3-26

7. Remove the connectors on the DCNT card. Remove the two (A) screws and loosen the DCNT card spacer, and remove the DCNT Card.

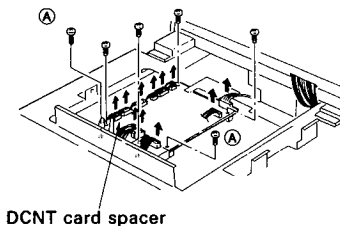


Figure 4-3-27

3.7.2 Installation

Install the DCNT card in the reverse order of its removal.

3.8 Fan Motor and Density Adjusting Card Replacement

3.8.1 Removal

1. Remove the SCNT1 card and SCNT2 card while referring to "3.4 Modem Card, SCNT1 Card, and SCNT2 Card Replacement".
2. Remove the operation unit while referring to "3.6 Operation Unit Replacement".
3. Remove the five screws which fix the ground wire.
(Remove the four screws for 230 V model.)

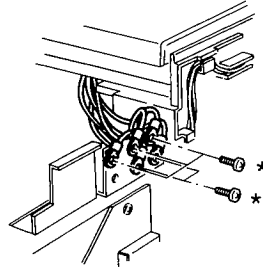


Figure 4-3-28

4. Remove the two screws shown in the figure and remove the ADF unit.

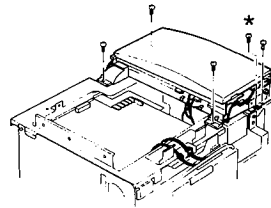


Figure 4-3-29

5. Remove the two screws shown in the figure and remove the plate.

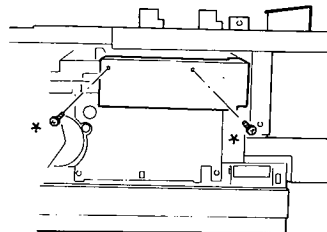


Figure 4-3-30

6. Remove the four screws shown in the figure, and the four screws which fix the ground wire, and remove the SCNT1 card supporting plate.

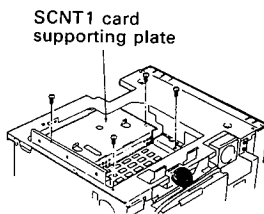


Figure 4-3-31

7. Remove the eight screws shown in the figure, and remove the main unit.

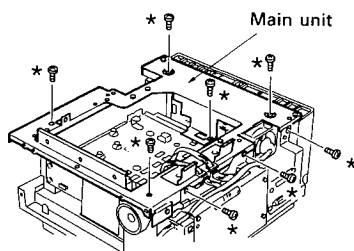


Figure 4-3-31

8. Remove the fan connector, and remove the fan.

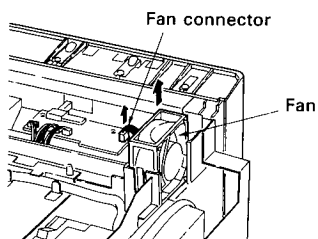


Figure 4-3-32

9. Remove the four screws, and remove the three connectors, then remove the print density adjusting card.

3.8.2 Installation

Install the fan motor and density adjusting card in the reverse order of their removal.

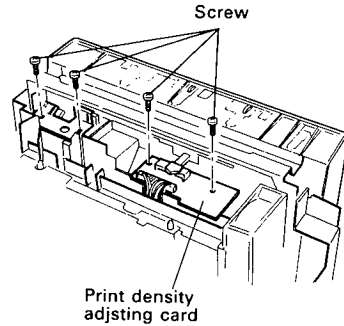


Figure 4-3-34

3.9 Printer Power Supply Unit Replacement

Note: L760 #2 model has one power supply unit, which serves both the fax and the printer.

3.9.1 Removal

1. Remove the SCNT1 card and SCNT2 card while referring to "3.4 Modem Card, SCNT1 Card, and SCNT2 Card Replacement".
2. Pull out the power supply for the facsimile while referring to "3.5 Replacement of Power Supply for Facsimile".
3. Remove the operation unit while referring to "3.6 Operation Unit Replacement".
4. Remove the D-CNT card while referring to "3.7 D-CNT Card Replacement".
5. Remove the eight screws shown in the figure and remove the main unit.

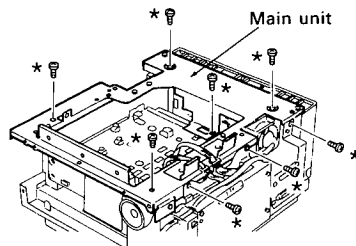


Figure 4-3-35

6. Remove the six screws shown in the figure and remove the SCNT2 card supporting plate. At this time, remove the connector which connects the printer power supply unit. (Remove connector ① in figure 38)

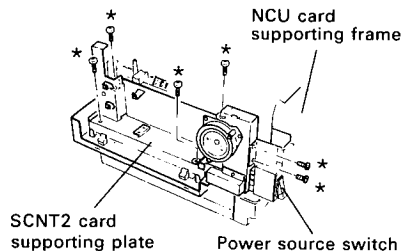


Figure 4-3-36

7. Remove the two screws shown in the figure and remove the NCU card supporting frame. At this time, you do not need to remove the power supply switch.

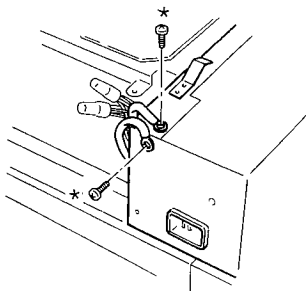


Figure 4-3-37

8. Remove the three screws and remove the D-CNT card supporting frame.

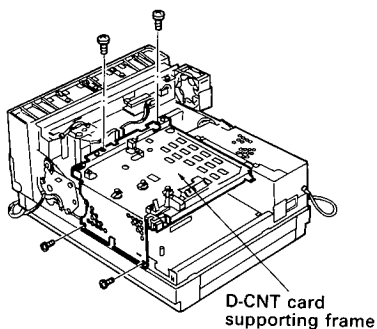


Figure 4-3-38

9. Remove the three screws and connector (B) shown in the figure, then remove the printer power supply unit.

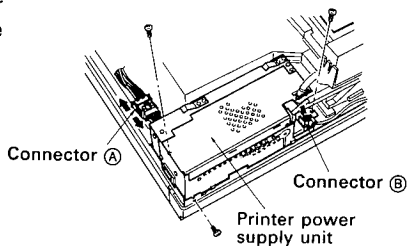


Figure 4-3-39

3.9.2 Installation

Install the printer power supply unit in the reverse order of its removal.

3.10 High-Voltage Power Supply Card Replacement

3.10.1 Removal

1. Remove the printer power supply unit while referring to "3.9 Printer Power Supply Unit Replacement".
2. Remove the three connectors shown in the figure, and pull out the high-voltage cover.

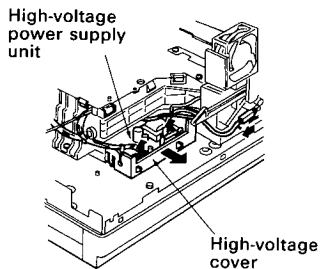


Figure 4-3-40

3. Remove the high-voltage card from the high-voltage cover (fixed with one screw).

3.10.2 Installation

Install the high-voltage power supply unit card in the reverse order of its removal.

3.11 Main Motor Replacement

3.11.1 Removal

1. Perform steps a) to h) of the "3.9 Printer Power Supply Unit Replacement".
2. Remove the two screws shown in the figure and remove the main motor.

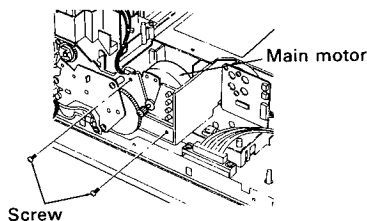


Figure 4-3-41

3.11.2 Installation

Install the main motor in the reverse order of its removal.

3.12 Replacement of Laser and Scanner Unit

3.12.1 Configuration

The laser and scanner unit sweeps a laser beam across the photosensitive drum. It is configured as shown below.

Note:

Never touch the mirror or lens circled in the above figure when removing or reassembling each unit. Never loosen the screws holding the mirror and lens.

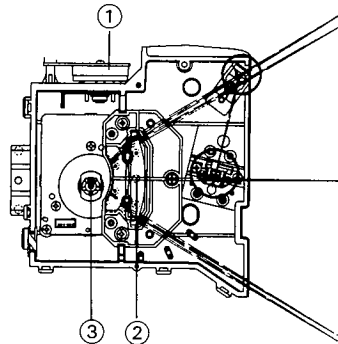


Figure 4-3-42

3.12.2 Removal

1. Remove the printer power supply unit cord while referring to "3.9 Printer Power Supply Unit Replacement".
2. Remove the connector while depressing the part marked with a white arrow on the laser unit. Next, unscrew the two screws and remove the laser unit.

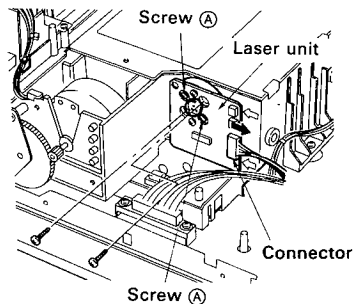


Figure 4-3-43

Note:

- Never touch the laser element leads circled in the above figure when removing or reassembling the laser unit. Never loosen any screws not specified in the above figure.
 - Make sure not to loosen screw (A) which fixes the semiconductor laser.
3. Remove the one screw and the four tabs fixing the scanner cover and remove the scanner cover.

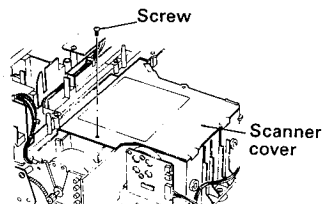


Figure 4-3-44

4. Remove the three screws and remove the lens unit.

Note:

1. Never touch the lens surface or scanning mirror when replacing the lens unit. If you touch the lens surface or scanning mirror, replace it with a new one, as this can cause abnormal images.
2. Never touch the mirror or lens circled in the above figure.

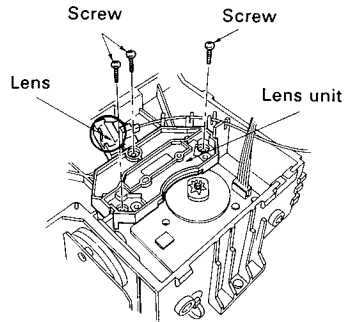


Figure 4-3-45

5. Pull out the connector while holding the scanner unit.
Unscrew the three screws.
Remove the scanner unit.

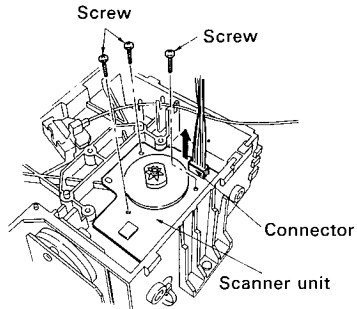


Figure 4-3-46

Notes:

1. Never touch the scanning mirror when replacing the scanner unit. If you touch the scanning mirror, replace it with a new one, as this can cause abnormal images.
2. The scanner motor is weak under an axial load. (See Figure 4-3-37.) Avoid any axial load on the scanner motor during reassembly. If the scanner motor is subjected to an axial load because of being dropped, replace it with a new one.
3. During reassembly, wipe off the contact surfaces of the lens unit, scanner unit, and printer with lint-free paper moistened with alcohol.

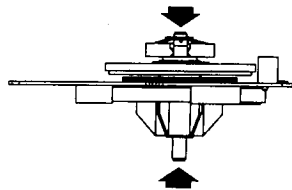


Figure 4-3-47

3.12.3 Installation

The installation is done in the reverse order of removal.

3.13 Drive Assembly Replacement

3.13.1 Removal

1. Remove the operation unit while referring to "3.6 Operation Unit Replacement."
2. Remove the cartridge.
3. Remove the four screws and remove the wire band, then remove the gear unit.

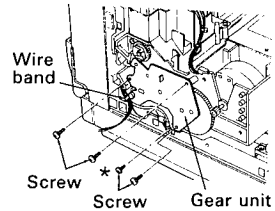


Figure 4-3-48

3.13.2 Installation

Install the gear unit in reverse order of its removal.

3.14 Separation Guide Replacement

3.14.1 Removal

1. Open the ADF unit and unscrew the two screws shown in the figure, then remove the ADF upper cover.

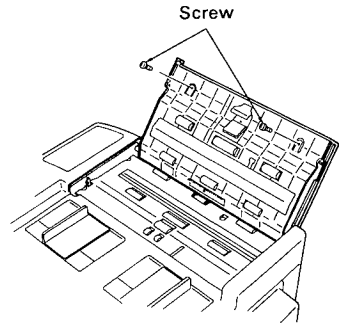


Figure 4-3-49

2. Remove the screw shown in the figure and remove the separation guide.

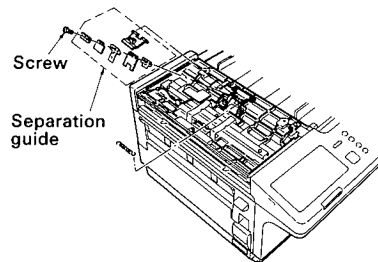


Figure 4-3-50

3.14.2 Installation

Install the separation guide in reverse order of its removal.

3.15 Separation Roller/Transport Roller Replacement

3.15.1 Removal

1. Open the ADF unit and unscrew the four screws shown in the figure, then remove the ADF lower cover.

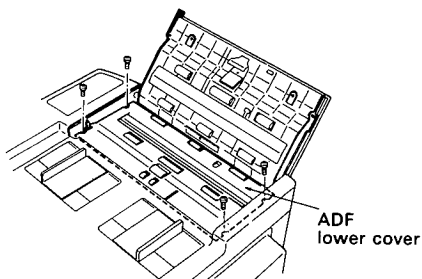


Figure 4-3-51

2. Remove the two E-rings from the separation roller shaft. Remove the separation roller and the sub separation roller as shown in the figure.

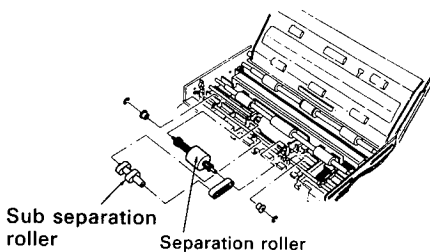


Figure 4-3-52

3.15.2 Installation

Install the separation roller and the Sub separation roller in the reverse order of their removal.

3.16 Contact Sensor Replacement

3.16.1 Removal

1. Remove all connectors on the SCNT1 card while referring to "3.4 a/b/f)".

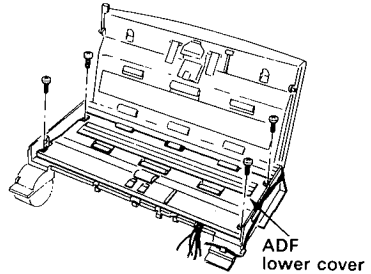


Figure 4-3-53

2. Remove the operation unit while referring to "3.6 Operation Unit Replacement".
3. Remove the ADF unit while referring to "3.7".
4. Open the ADF cover and remove the four screws shown in the figure, then remove the ADF lower cover.
5. Remove the three screws and connector shown in the figure, then remove the contact sensor.

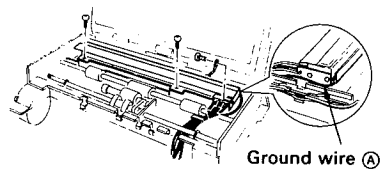


Figure 4-3-54

Note: Be careful not to damage the grounding wire (A) (brown), which is soldered directly onto the CS unit.

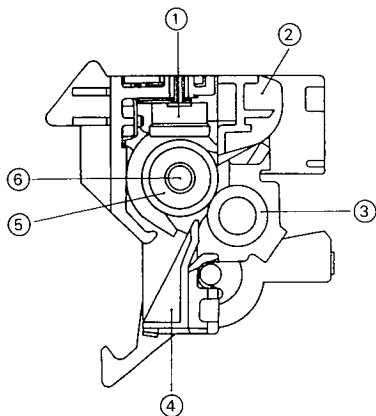
3.16.2 Installation

Install the contact sensor in the reverse order of its removal.

3.17 Fixing Unit

3.17.1 Configuration

The fixing unit fixes the toner image onto the paper (makes it permanent). It is configured as shown below.



- ① Thermoswitch
- ② Delivery guide
- ③ Lower fixing roller
- ④ Fixing unit entrance guide
- ⑤ Upper fixing roller
- ⑥ Fixing roller heater

Figure 4-3-55

3.17.2 Removing the fixing unit

1. Open the printer.
2. Remove the cartridge.
3. Remove the five screws. Next, expand the side wall of the front cover in the direction of the arrow, then remove the hooks in order from the drive side (right side of the figure below). Finally remove the fixing unit.

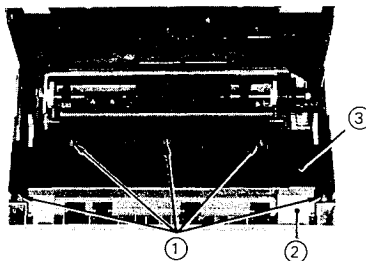


Figure 4-3-56 (a)

- ① Screws
- ② Delivery cover
- ③ Fixing unit

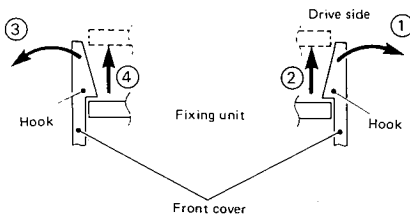
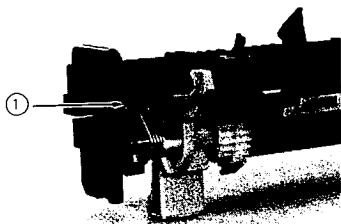


Figure 4-3-56 (b)

3.17.3 Disassembly and reassembly

1. Fixing roller heater

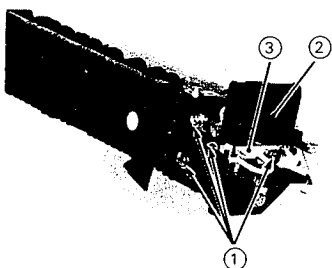
- a. Loosen the screw holding the fixing roller heater.



- ① Screw

Figure 4-3-57

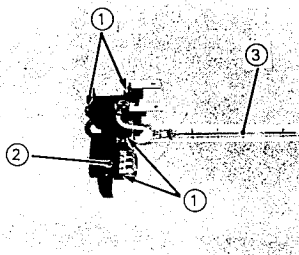
- b. Remove the four screws, and pull the fixing roller heater carefully out of the upper roller together with left connector holder.



- ① Screws
- ② Left connector holder
- ③ Fixing roller heater

Figure 4-3-58

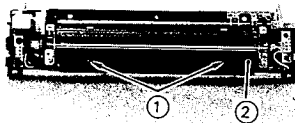
- c. Remove the four screws and then the fixing roller heater from left connector holder.



- ① Screws
- ② Left connector holder
- ③ Fixing roller heater

Figure 4-3-59

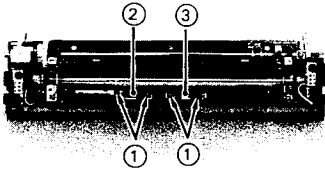
2. Thermoswitches
- a. Remove the two screws and then the delivery guide. Be sure to avoid losing the spring.



- ① Screws
- ② Delivery guide

Figure 4-3-60

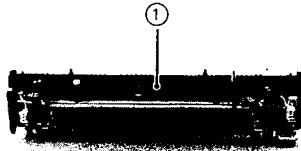
- b. Remove the two screws and then thermoswitch 1 or 2.



- ① Screws
② Thermoswitch 1
③ Thermoswitch 2

Figure 4-3-61

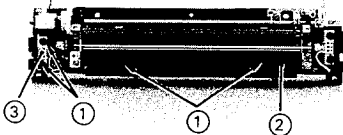
- b. With a flat-bladed screwdriver, remove the four hooks holding the wire cover to the fixing unit. Remove the wire cover from the fixing unit.



- ① Wire cover

Figure 4-3-63

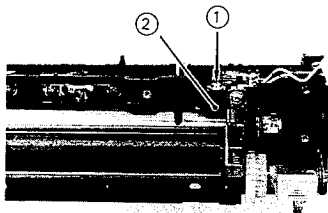
3. Thermistor
a. Remove the four screws and then the delivery guide and the connector. Be sure to avoid losing the spring.



- ① Screws
② Delivery guide
③ Connector (J502)

Figure 4-3-62

- c. Remove the screw and then the thermistor.



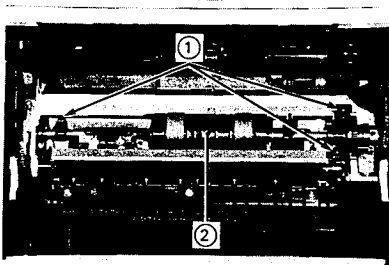
- ① Screws
② Thermistor

Figure 4-3-64

3.18 Paper Transport System

3.18.1 Pick-up roller unit

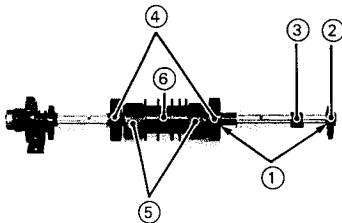
1. Removing the pick-up roller unit
 - a. Open the printer.
 - b. Remove the cartridge.
 - c. Remove the three screws and then the pick-up roller unit.



- ① Screws
- ② Pick-up roller unit

Figure 4-3-65

2. Disassembly and reassembly
 - a. Remove the E-rings from the pick-up roller shaft.
 - b. Remove the cam, bushing, auxiliary rollers 1, auxiliary rollers 2, and pick-up rollers from the pick-up roller shaft.

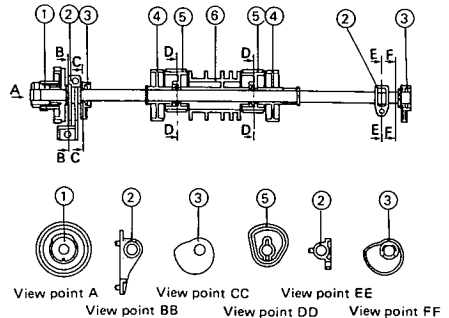


- ① E-rings
- ② Cam
- ③ Bushing
- ④ Auxiliary roller 1
- ⑤ Pick-up rollers
- ⑥ Auxiliary roller 2

Figure 4-3-66

Note:

When replacing the pick-up rollers, be sure to position the rollers, pick-up roller clutch, and cam as shown below.



- ① Pick-up roller clutch
- ② Bushing
- ③ Cam
- ④ Auxiliary roller 1
- ⑤ Pick-up roller
- ⑥ Auxiliary roller 2

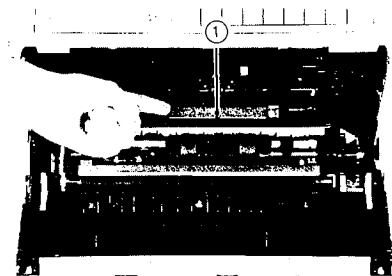
Figure 4-3-67

Note:

The pick-up roller and pick-up roller clutch are mounted on the pick-up roller shaft at particular positions. The pick-up roller can easily be replaced and returned to its original position. However, a special tool is required to locate the pick-up clutch at the correct position. For this reason, never replace the pick-up roller clutch in the field nor apply any force to the clutch.

3.18.2 Separation Pad

1. Removing the separation pad
 - a. Open the printer.
 - b. Remove the cartridge.
 - c. Remove the separation pad.



- ① Separation pad

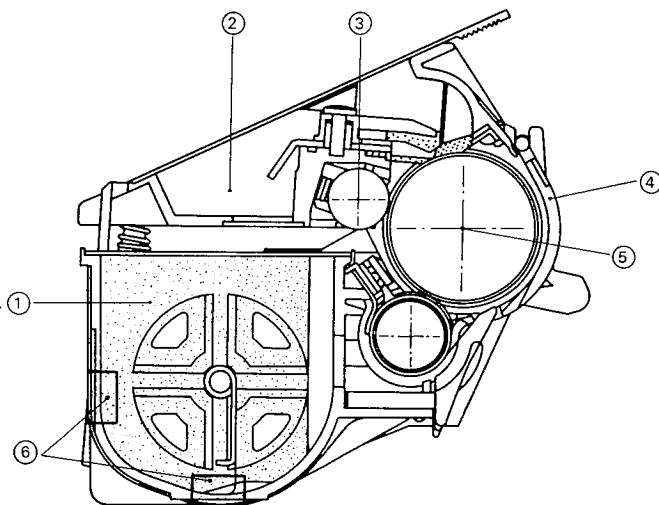
Figure 4-3-68

3.19 FX-1 Cartridge

3.19.1 Configuration

The FX-1 cartridge combines a photosensitive drum, primary charging roller, developing unit, and drum cleaning unit in one housing, and is replaced as a unit. During printing the drum rotates and an invisible electrostatic latent image is formed on its surface and then developed into a visible image by toner.

The EP-L cartridge cannot be disassembled.



- ① Developing unit
- ② Drum cleaning unit
- ③ Primary charging roller

- ④ Protective shield
- ⑤ Photosensitive drum
- ⑥ Sensor Window

Figure 4-3-69

1. Protective shield

The photosensitive drum is protected by a protective shield that prevents exposure to strong light. If the drum were exposed to strong light, blank areas or black streaks might appear on prints. Do not open the protective shield unless necessary. (The protective shield is automatically opened when the cartridge is inserted into the printer and the printer is closed.)

3.19.2 Cleaning the photosensitive drum

1. Open the printer and remove the cartridge.
2. Open the protective shield.
3. Liberally sprinkle toner on a piece of flannel or other soft cloth and clean the drum surface with it.

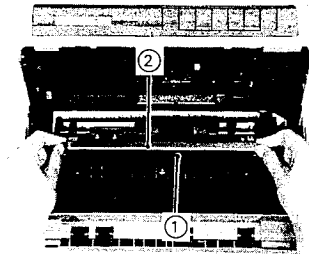
Notes:

1. Be sure to turn the drum only in the direction that it turns during printing. If the drum is turned backwards, the spring-loaded contact that conducts the developing bias to the inside rim of the developing cylinder will be bent. Do not touch the photosensitive part of the drum when rotating the drum.
2. Use flannel or some other soft cloth to clean the drum surface. Lint-free paper is too hard, and will scratch the surface. Never use solvents for cleaning the drum.
3. Finish cleaning as quickly as possible to avoid long exposure of the drum to light, as this can cause abnormal image.

3.20 Transfer Charging Roller

3.20.1 Removing the transfer charging roller

1. Open the printer.
2. Remove the transfer charging roller together with the guide.



- ① Transfer charging roller
② Guide

Figure 4-3-70

3. Remove the roller from the guide.

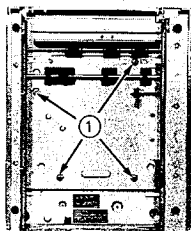
Notes:

1. Use dry lint-free paper (producing little paper dust) to clean the transfer charging roller. Never use solvents for cleaning.
2. If paper dust or toner cannot be removed from the transfer charging roller with lint-free paper, or if the roller is deformed, replace it with a new one.

3.21 Cassette Paper Feeder

3.21.1 Removing the cassette paper feeder from the printer

1. Lay the printer on its back.
2. Remove the four screws and separate the cassette paper feeder from the printer.

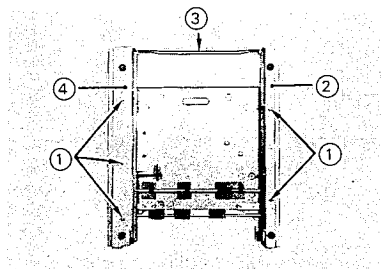


① Screws

Figure 4-3-71

3.21.2 Removing the cassette feed rollers

1. Remove the five screws, and remove the right cover, left cover, and rear cover.



① Screws

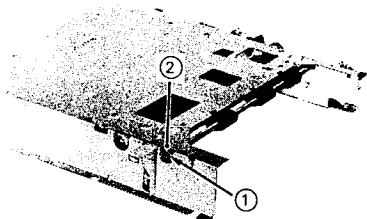
② Left cover

③ Rear cover

④ Right cover

Figure 4-3-72

2. Remove the E-ring and then the bushing.

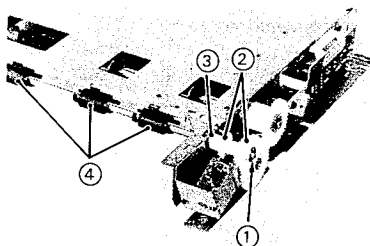


① E-ring

② Bushing

Figure 4-3-73

3. Remove the E-ring, two gears, bushing, and the cassette feed roller.



① E-ring

② Gears

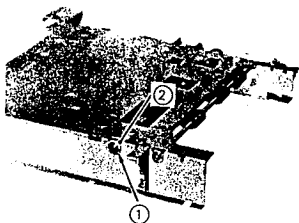
③ Bushing

④ Cassette feed roller

Figure 4-3-74

3.21.3 Removing the cassette pick-up rollers

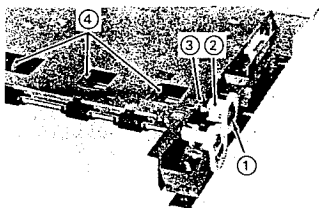
1. Remove the right cover, left cover, and rear cover.
2. Remove the E-ring and then the bushing.



- ① E-ring ② Bushing

Figure 4-3-75

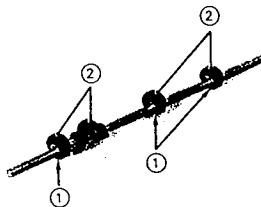
3. Remove the E-ring. Loosen the setscrew that secures the clutch drum to the pick-up roller shaft.
4. Remove the cassette pick-up roller clutch, bushing, and the cassette pick-up roller shaft.



- ① E-ring ③ Bushing
② Cassette pick-up roller clutch ④ Cassette pick-up roller

Figure 4-3-76

5. Remove the E-ring and then the cassette pick-up roller.



- ① E-ring ② Cassette pick-up roller

Figure 4-3-77

Note:

When replacing the pick-up rollers, be sure to position the rollers and pick-up roller clutch as shown below.

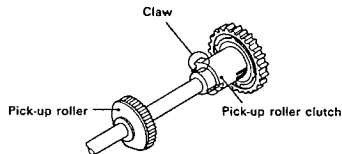


Figure 4-3-78

3-21-4 Adjustment of the installation position of the cassette pick-up roller clutch

When installing the cassette pick-up roller clutch, use a thickness gauge to adjust the distance between the clutch and the E-ring to 0.2 mm, then fix the clutch into position.

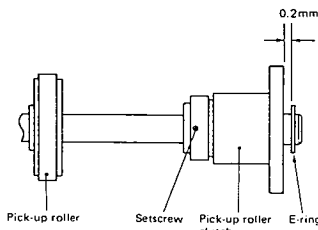
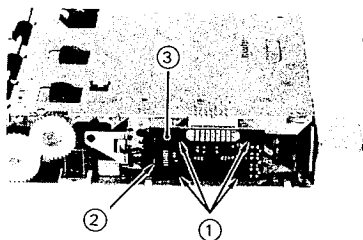


Figure 4-3-79

3.21.5 Removing the cassette paper feeder card

1. Remove the right cover.
2. Remove the four screws, disconnect the connector, and remove the cassette paper feeder PCB.



- | | |
|-----------------------|---------------------------------|
| ① Screws | ③ Cassette paper
feeder CARD |
| ② Connector
(J902) | |

Figure 4-3-80

4

SENSORS

Locations of sensors

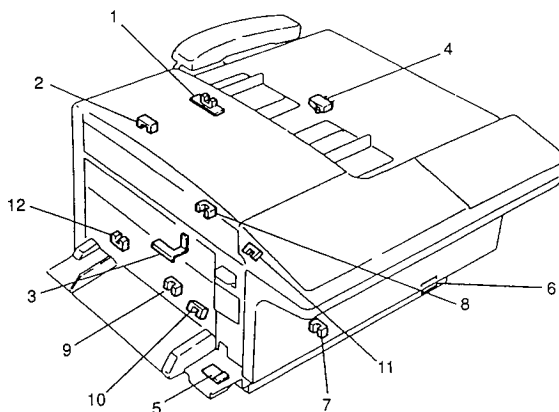


Figure 4-4-1

Chart 4-4-1

No	Sensor Name	Parts Number	Type
1	Document Sensor (DS)	HG1-2402-000	Photointerrupter
2	Document Edge Sensor (DES)	HG1-2346-000	Photointerrupter
3	Toner Sensor (TN)	HH7-1576-000	Photointerrupter
4	Document Width Sensor (DWS)	HH7-1548-000	Microswitch
5	R.P. Size Switch	HH7-1557-000	Microswitch
6	Cassette Size Sensor (CSS)	RG1-1596-000	Microswitch
7	R.P. Sensor (RPS)	WG8-0291-000	Photointerrupter
8	Paper Eject Sensor (PES)	WG8-0291-000	Photointerrupter
9	Paper Feed Sensor (POS)	RG1-1778-000	Photointerrupter
10	Sub-tray Paper Sensor (SPS)	WG8-0323-000	Photointerrupter
11	Printer Cover Sensor (PCS)	WG8-0291-000	Photointerrupter
12	Eject Cover Sensor (PCS)	WG8-0323-000	Photointerrupter

Note 1: Sensors 1 to 7, 10 to 11 can be checked in Test mode. (See page 2-103.)

Note 2: Print cover sensor works only when a cartridge is inserted.

Toner Sensor works only when Printer cover sensor is ON.

Note 3: Document Width Sensor is L770 only.

CHAPTER 5

INSPECTION ITEMS

1 PERIODIC INSPECTION

1.1 List of Cleansing Agents

No.	Agent	Component	Use	Remarks
1	Alcohol: Ethyl (pure or denatured) or isopropyl (pure or denatured)	C_2H_5OH , $(CH_3)_2CHOH$	Cleaning: plastic, rubber, external parts	• Purchase locally • Flammable: Keep away from flame
2	MEK (methyl ketone)	$CH_3CO-C_2H_5$	Cleaning: oil and toner stains	• Purchase locally • Highly flammable: keep away from flame

Table 5-1-1

1.2 Cleaning Item

1.2.1 White Reference Cleaning

Open the ADF unit and clean the white reference.

It should be wiped slightly with lint-free paper moistened with isopropyl alcohol.

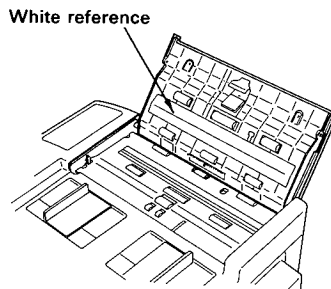


Figure 5-1-1

1.2.2 Glass Plate Cleaning

Open the ADF unit and clean the glass plate. Glass plate should be wiped with methanol.

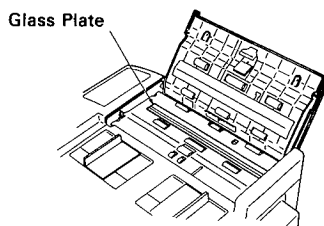


Figure 5-2-2

1.2.3 ADF Section Cleaning

Clean each roller of the ADF section with isopropanol alcohol. Dirt on separation guide or ADF section rollers can cause defective feeding.

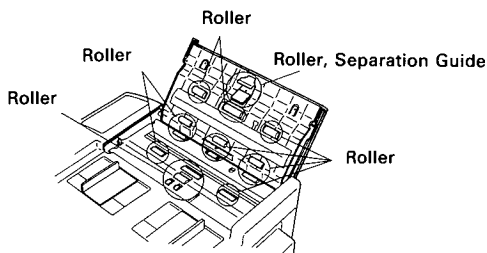


Figure 5-2-3

2**EXPECTED SERVICE LIVES OF CONSUMABLES**

The following is a table of consumables which, over the warranty period of the printer, are expected to need replacement once or more because of deterioration or damage. The lifespan of the consumables is expressed in terms of the number of prints processed; replace them when they prove to be faulty.

2.1 Expendable Parts List

Parts name	Parts No.	Qt'y	Life	Remarks
Battery	HH7-1212-000	1	5 years	
Separation guide	HG1-2383-000	1	Note 1	
Separation roller	HA1-7351-000	1	Note 1	
Sub separation roller	HA1-7352-000	1	Note 1	
Stamp UNIT	HH7-1549-000	1	100,000 Times or more	
Fan motor	HH7-1581-000	1	3.5 years	

Note1: Replace if ADF isolation performance deteriorates and is not improved by cleaning.

Parts name	Parts No.	Qt'y	Life (sheets)	Remarks
Pick-up roller unit	RG1-1792-000	1	50,000	Replace the pick-up roller unit and separation pad together.
Separation pad unit	RG1-1912-000	1	50,000	
Transfer charging roller	RA1-7627-000		150,000	
Fixing unit	HG1-2387-000	1	150,000	100/115 V
	HG1-2539-000	1	150,000	220/240 V

Note: The values above are estimates only, and subject to change based on future data.

3**STAMP INK REFILL (L770 only)**

The customer must refill the stamp ink.

Ink sold on the market can be used as refill.

Ink name: "Schachimata X Stamper INK (Y-30 blue)" in Japanese marked. The name of the INK may be different. Use of other products may cause malfunction.

1. Lift up the ADF panel. (Fig. 5-3-1)

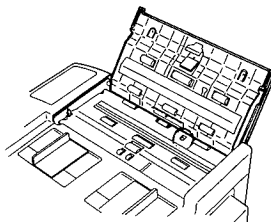


Figure 5-3-1

2. Refill ink from to portion shown in the Figure. (Be careful not to spill ink because ink cannot be absorbed at the center of the stamp.)
3. Use stamping after about one hour has passed since ink was refilled. (Otherwise, ink from might run.)

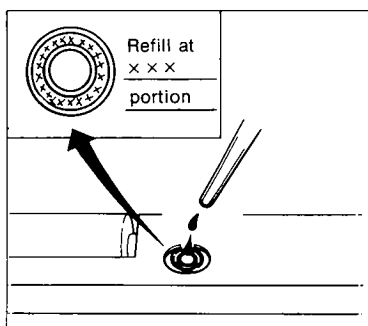


Figure 5-3-2

CHAPTER 6

PARTS CATALOG

HOW TO USE THE PARTS LIST

1. Assembly Location Diagrams

Locations of the main units and the main parts are shown in illustrations. In these illustrations, blocks represent names, and circles represent figure numbers.

2. Parts Illustration Number and Symbols

Numbers attached to each parts illustration are Key Nos., and the same parts are represented by the same Key Nos. Key numbers for screws, washers are combinations of letters and numbers (ex. A6, F2, H3, etc. are Key numbers for screws and washers).

3. Parts List Pages

The parts list pages contain the following columns and information.

a) Figure and Key Number Column

The first column shows the figure number corresponding to the parts illustrations, and the Key numbers are represented by just numbers only except for CARD UNIT, screws and washers.

b) Part Number Column

The second column shows the part number of the part. The letters NPN in this column indicate that the parts or assemblies described in the description column do not have a part number.

c) Quantity Column

The quantity shown in this column is the quantity of the part used per figure. (The following indication is optional)

Indication	Contents
RF	When parts which do not have part numbers are described in the parts catalog. Standards ● If NPN is in the parts number column, NPN must be used together.
AR	Used for parts required in known or unknown quantities. Standards ● Parts of unknown quantity like screws and washers. ● Washers for adjustment ● Supplementary parts when replacement parts are used (electric parts etc.)
EQ	Represent substitutes parts. Standards The substitute parts are described as indicated below. ● Important parts

d) Rank Column

The Parts marked "N" are service parts, but are not stock items. They are produced on order basis.

4.Screws and Washers

Refer to "Screws and Washers List" to know the part numbers and names of screws and washers.

Explanatory Note

The parts catalogue is divided into two, one for L770, and one for L760. Differences between various countries and regions, and between #1 and #2 versions are indicated by means of code letters, B-N, and P. See the following table for details.

Parts Catalogue A

Code	Name	Number	Voltage	Region
B	FAX-L770 #1	H11-0942	120V	USA
C	FAX-L770 #1	H11-0943	230V	EC
D	FAX-L770 # 1	H11-0944	230V	UK
E	FAX-L770 # 1	H11-0945	230V	GER
F	FAX-L770 #1	H11-0946	230V	NL/SWE
H	FAX-L770 #1	H11-0948	230V	AUS
J	FAX-L770 #1	H11-1286	120V	LATIN
K	FAX-L770 #1	H11-1287	230V	LATIN
L	FAX-L770 #1	H11-1289	230V	SWITZ
N	FAX-L770 #1	H11-2139	230V	AE
P	FAX-L770 #2	H11-2382	120V	USA

Parts Catalogue B

Code	Name	Number	Voltage	Region
B	FAX-L760 #1	H11-2152	120V	USA
C	FAX-L760 #1	H11-2153	230V	EC
D	FAX-L760 #1	H11-2154	230V	UK
E	FAX-L760 #1	H11-2155	230V	GER
F	FAX-L760 #1	H11-2156	230V	NL/SWE
H	FAX-L760 #1	H11-2239	230V	SWITZ
L	FAX-L760 #2	H11-2292	120V	USA

A**DETAILED PARTS (FAX-L770)**

- 101. EXTERNAL COVERS, ETC.
- 102. INTERNAL COMPONENTS
- 103. ADF UNIT
- 104. PRINTER UNIT
- 105. PRINTER COVER & RECORDING PAPER TRAY UNIT
- 106. FIXING ASSEMBLY
- 107. INTERNAL COVER ASSEMBLY
- 108. UPPER COVER UNIT
- 109. CASSETTE FEEDER UNIT
- 110. OPERATION PANEL UNIT
- 111. OTHERS (L770#1)
- 112. OTHERS (L770#2)

101.EXTERNAL COVERS, ETC.

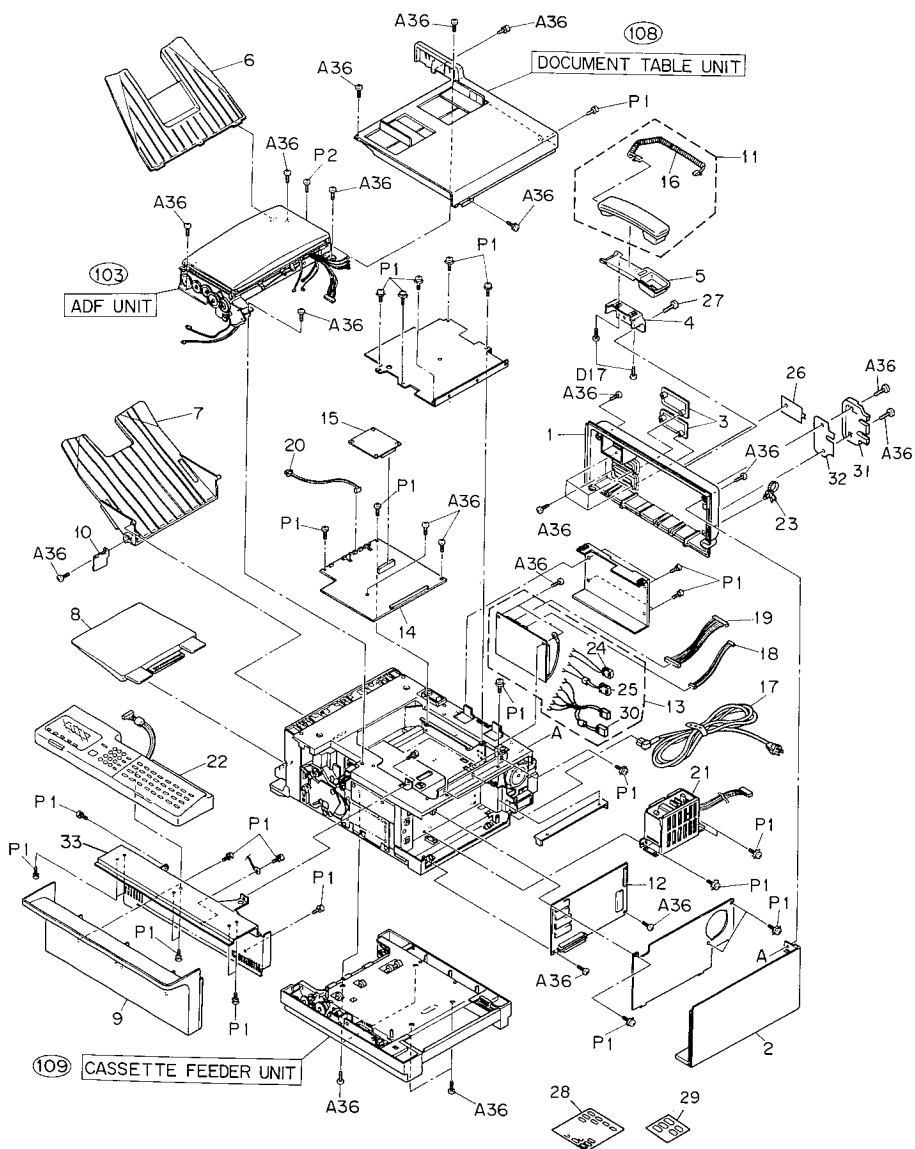
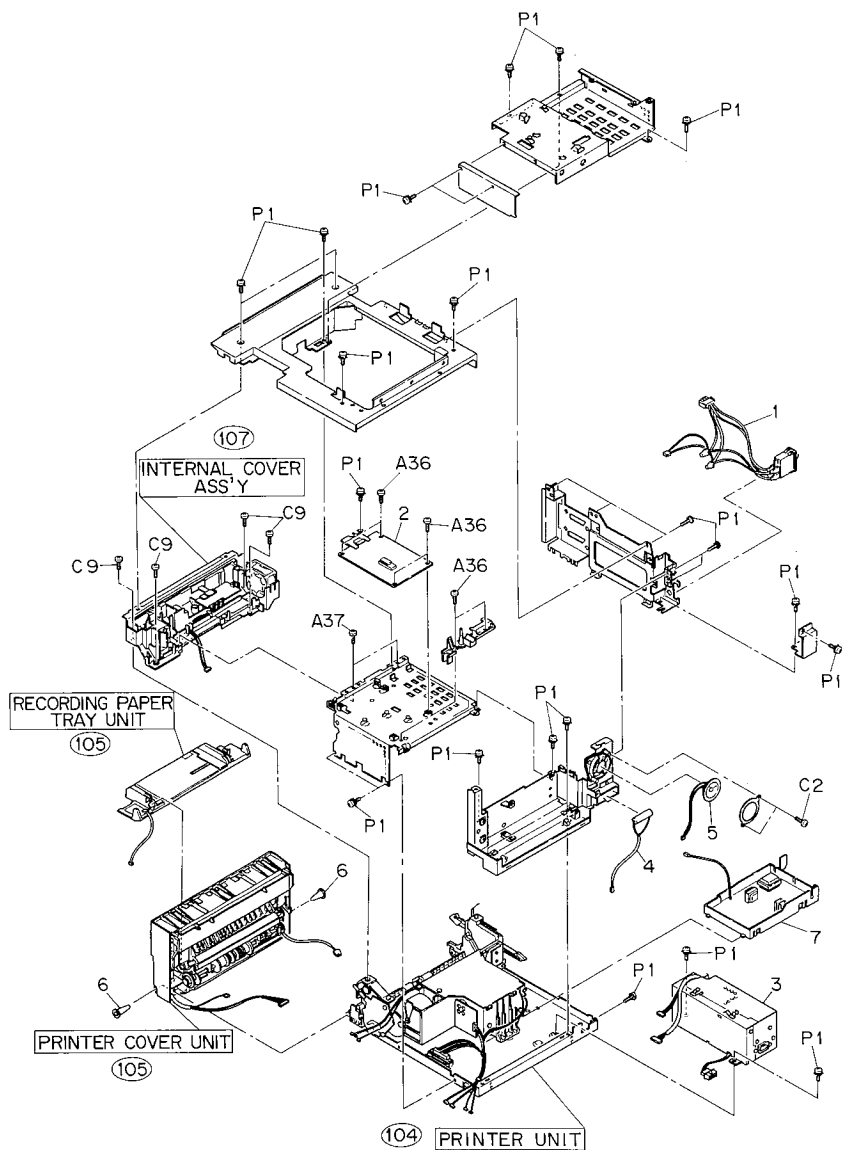


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
101	NPN		RF	EXTERNAL COVERS, ETC.	
1	HA1-6552-000		1	REAR COVER	
2	HA1-6553-000		1	SIDE COVER	
3	HA1-6555-000		2	CONNECTOR COVER	
4	HA1-6559-000		1	STAY, HANDSET HOLDER	.B.D...H.JK...P....
5	HA1-6560-000		1	HANDSET REST (2)	.B.D...H.JK...P....
6	HA1-6578-000		1	DOCUMENT TRAY	
7	HA1-6579-000		1	EJECT PAPER TRAY	
8	HA1-6580-000		1	EXTENSION TRAY	
9	HA1-6591-000		1	FRONT COVER	
10	HA1-6687-000		1	PROTECT COVER	.CD.F.H.JKL.N.....
	HA1-7613-000		1	PROTECT COVER	.E.....
	HA2-0147-000		1	PROTECT COVER	.B.....P.....
11	HG1-2185-000		1	HANDSET UNIT	.B.....JK...P....
	HG1-2657-000		1	HANDSET UNIT	.H.....
12	HG1-3039-000		1	HANDSET UNIT	.D.....
	HG1-2390-000		1	SCNT 2 CARD UNIT	.B.....
	HG1-2392-000		1	SCNT 2 CARD UNIT	.C.....KL.....
	HG1-2400-000		1	SCNT 2 CARD UNIT	.E.....
	HG1-2877-000		1	SCNT 2 CARD UNIT	.F.....
	HG1-2878-000		1	SCNT 2 CARD UNIT	.J.....
	HG1-3199-000		1	SCNT 2 CARD UNIT	.H.....
	HG1-3204-000		1	SCNT 2 CARD UNIT	.N.....
	HG1-3269-000		1	SCNT 2 CARD UNIT	.D.....
	HG1-3492-000		1	SCNT 2 CARD UNIT	.P.....
13	HG1-2394-000		1	NCU CARD UNIT	.B.....J.....P....
	HG1-2396-000		1	NCU CARD UNIT	.C.F...K..N.....
	HG1-2397-000		1	NCU CARD UNIT	.E.....
	HG1-2398-000		1	NCU CARD UNIT	.H.....
	HG1-2399-000		1	NCU CARD UNIT	.L.....
14	HG1-3071-000		1	NCU CARD UNIT	.D.....
	HG1-2519-000		1	SCNT 1 CARD UNIT	.B.....H.J.....
	HG1-2662-000		1	SCNT 1 CARD UNIT	.CD.....KL.N.....
	HG1-2876-000		1	SCNT 1 CARD UNIT	.F.....
	HG1-3193-000		1	SCNT 1 CARD UNIT	.E.....
15	HG1-3313-000		1	SCNT 1 CARD UNIT	.P.....
16	HG1-3487-000		1	MODEM CARD UNIT	.BCDEF.H.JKL.N.....
	HH2-1702-000		1	COILED CORD	.H.....
	HH2-1703-000		1	COILED CORD	.B.....JK...P....
	HH2-1995-000		1	COILED CORD	.D.....
17	HH2-1718-000		1	POWER SUPPLY CORD	.B.....J.....P....
	HH2-1727-000		1	POWER SUPPLY CORD	.C.EF...K..N.....
	HH2-1728-000		1	POWER SUPPLY CORD	.D.....
	HH2-1729-000		1	POWER SUPPLY CORD	.H.....
	HH2-1730-000		1	POWER SUPPLY CORD	.L.....

FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
18	HH2-1719-000		1	CABLE ASSEMBLY 7 PIN	
19	HH2-1720-000		1	CABLE ASSEMBLY 15 PIN	
20	HH2-1770-000		1	CABLE ASSEMBLY 2 PIN	
21	HH3-5143-000		1	POWER SUPPLY UNIT	B.....J.....
	HH3-5144-000		1	POWER SUPPLY UNIT	CDEF.H..KL.N.....
22	HH7-1555-000		1	OPERATION PANEL UNIT	B.....J.....P.....
	HH7-1556-000		1	OPERATION PANEL UNIT	C.D.F.H..KL.N.....
	HH7-1686-000		1	OPERATION PANEL UNIT	E.....
23	WT2-5014-000		1	CABLE TIE	
24	HH2-1277-000		1	MODULAR JACK	B.....J.....P.....
	HH2-1721-000		1	MODULAR JACK	H.....
25	HH2-1722-000		1	MODULAR JACK	B.....H.J.....P.....
26	HA2-0145-000		1	COVER, ENTRY SW	
27	XB1-2301-607		1	SCREW, MACHINE M3-10	
28	HA1-6581-000		2	ADDRESS LABEL	
29	HA1-7509-000		1	LABEL, PROGRAM KEY	
	HA2-0868-000		1	LABEL, MERCURY	...D.....
30	HH2-1908-000		1	MODULAR JACK W/CORD	CDEF...KL.N.....
31	HA1-6589-000		1	MODULAR COVER	CDEF.H..KL.N.....
32	HA2-0532-000		1	MODULAR SHEET	C.....
33	HA1-6592-000		1	FRAME, OPERATION PANEL	

102. INTERNAL COMPONENTS



103. ADF UNIT

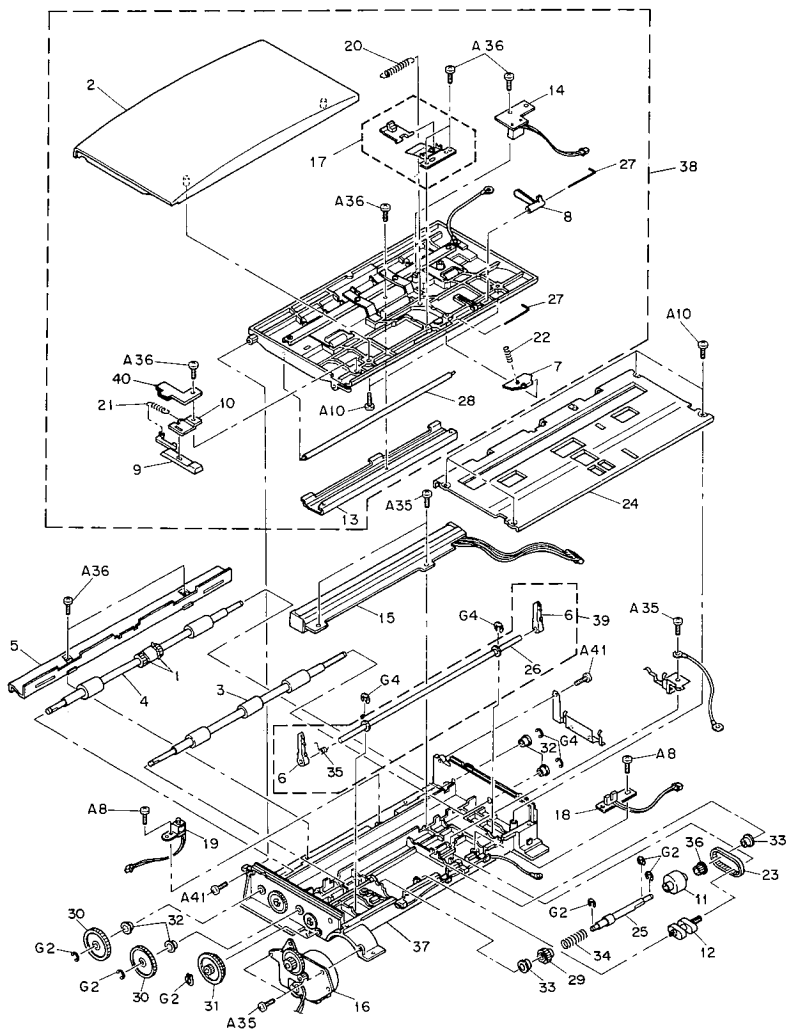


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
103	HG1-2342-000 HG1-2738-000 HG1-3494-000 1 HA1-4642-000 2 HA1-6554-000		1 1 1 2 1	ADF UNIT ADF UNIT ADF UNIT SUB ROLLER, EJECT ADF COVER	B.....J..... ...CDEF.H...KL.N.....P.....
	3 HA1-6603-000 4 HA1-6604-000 5 HA1-6612-000 6 HA1-6613-000 7 HA1-6631-000		1 1 1 2 1	ROLLER, DOCUMENT FEED ROLLER, DOCUMENT EJECT BRACKET, DOCUMENT TRAY HOOK LEVER SUB SEPARATION GUIDE	
	8 HA1-6637-000 9 HA1-6648-000 10 HA1-6649-000 11 HA1-7351-000 12 HA1-7352-000		1 1 1 1 1	ACTUATER, DS RELEASE KNOB, ADF COVER RELEASE LEVER, ADF COVER SEPARATION ROLLER SUB SEPARATION ROLLER	
	13 HF1-0673-000 14 HG1-2346-000 15 HG1-2347-000 HG1-2737-000 HG1-3493-000		1 1 1 1 1	PRESSURE PLATE, DOCUMENT DOCUMENT EDGE SENSOR CONTACT SENSOR UNIT CONTACT SENSOR UNIT CONTACT SENSOR UNIT	B.....J..... ...CDEF.H...KL.N.....P.....
	16 HG1-2348-000 HG1-3483-000 17 HG1-2383-000 18 HG1-2402-000 19 HH7-1549-000		1 1 1 1 1	ADF DRIVE UNIT ADF DRIVE UNIT SEPARATION GUIDE DOCUMENT SENSOR STAMP UNIT	BCDEF.H...KL.N.....P.....
	20 HS1-2217-000 21 HS1-2218-000 22 HS1-2221-000 23 XF9-0305-000 24 HA1-6602-000		1 1 1 1 1	SPRING SPRING SPRING COGGED BELT DOCUMENT GUIDE, LOWER	
	25 HA1-6607-000 26 HA1-6614-000 27 HA1-6632-000 28 HA1-6644-000 29 HS1-0223-000		1 1 2 1 1	SHAFT, SUB SEPARATION ROLLER SHAFT, HOOK LEVER SHAFT SHAFT, DOCUMENT PRESSURE GEAR, 15T	
	30 HS1-0225-000 31 HS1-0226-000 32 HS1-1017-000 33 HS1-1030-000 34 HS1-2033-000		2 1 4 2 1	GEAR, 68T GEAR, 68/80T BUSHING, 6MM BUSHING, 4MM SPRING, CLUTCH	
	35 HS1-2222-000 36 HS1-3064-000 37 HF1-0672-000 38 HG1-2345-000 39 HG9-0495-000		1 1 1 1 1	SPRING PULLY, 15T ADF FRAME UNIT DOCUMENT GUIDE UNIT (UPPER) HOOK LEVER ASSY	
	40 HA1-8682-000		1	PLATE, RELEASE	

104. PRINTER UNIT

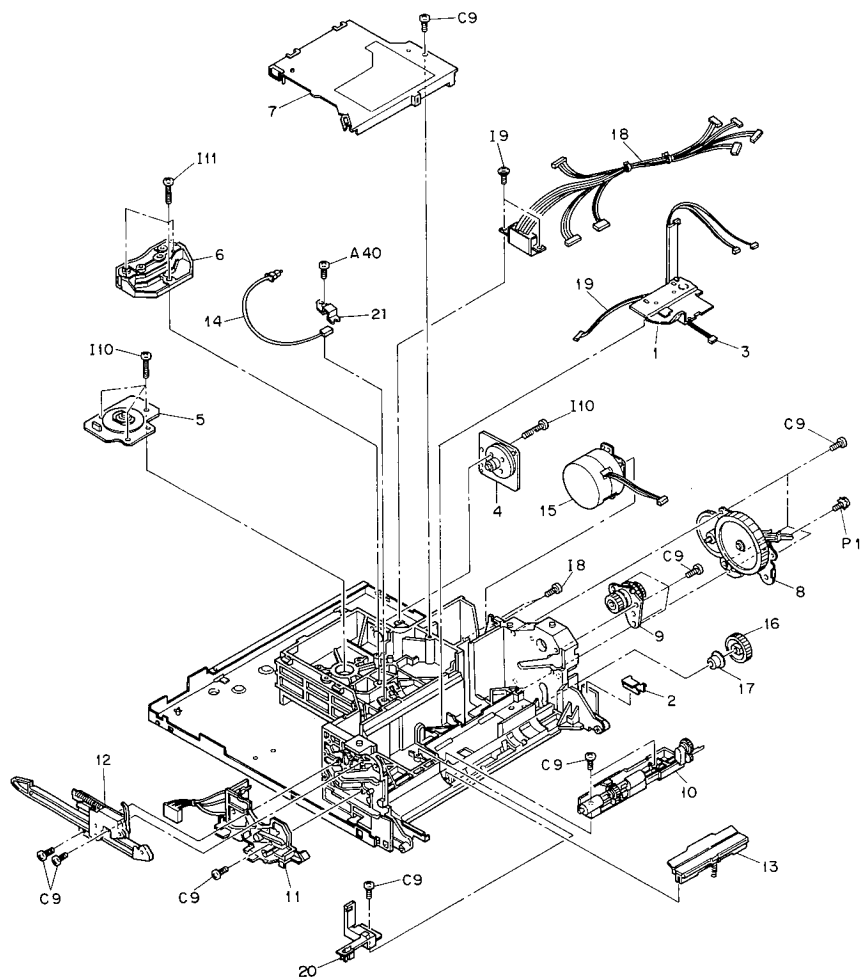


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
104	NPN		RF	PRINTER UNIT	
	1 RA1-7502-000		1	COVER, CABLE	
	2 RA1-7506-000		1	COVER, CORD	
	3 RF1-2385-000		1	CABLE, SENSOR	
	4 RG1-1769-000		1	LASER ASSEMBLY	
	5 RG1-1771-030		1	SCANNER MOTOR ASSEMBLY	
	6 RG1-1772-000		1	LENS ASSEMBLY	
	7 RG1-1773-040		1	SHUTTER ASSEMBLY	
	8 RG1-1776-000		1	DRIVE ASSEMBLY	
	9 RG1-1777-000		1	DRUM DRIVE ASSEMBLY	
	10 RG1-1778-030		1	FEEDER ASSEMBLY	
	11 RG1-1780-000		1	H.V. CONTACT ASSEMBLY	
	12 RG1-1781-030		1	ROD ASSEMBLY	
	13 RG1-1912-000		1	SEPARATION PAD UNIT	
	14 RH2-5104-000		1	OPTICAL FIBER CABLE	
	15 RH7-1094-000		1	MOTOR, STEPPING, DC4W	
	16 RS1-0284-000		1	GEAR, 30T	
	17 RS1-1048-000		1	BUSHING	
	18 RG1-1609-000		1	REAR CABLE ASSEMBLY	
	19 HH2-1774-000		1	CABLE ASSEMBLY, 3 PIN	
	20 HH7-1576-000		1	TONER SENSOR	
	21 RA1-7446-000		1	BLOCK, FIBER HOLDER	

105. PRINTER COVER & RECORDING PAPER TRAY UNIT

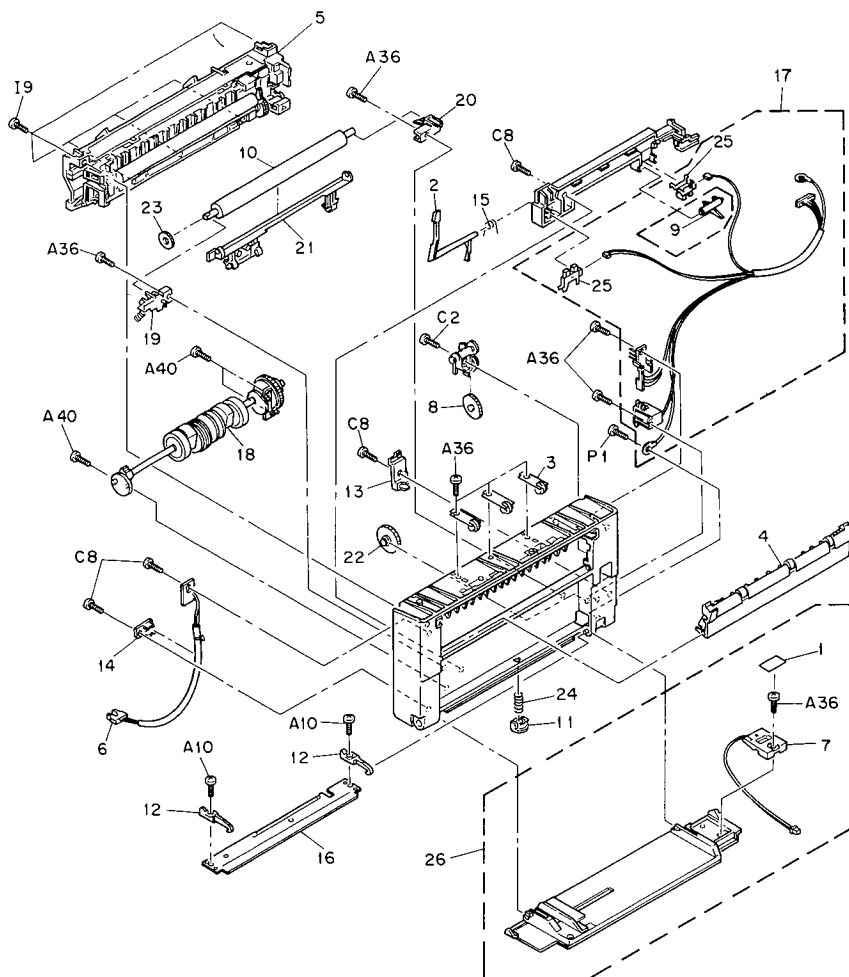


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
105	HG1-2350-000		1	PRINTER COVER UNIT	.B.....J.....P....
	HG1-2538-000		1	PRINTER COVER UNIT	..CDEF.H...KL.N.....
	1 HA1-6683-000		1	SWITCH LABEL, PAPER SIZE	.B.....H.J.....P....
	HA1-7752-000		1	SWITCH LABEL, PAPER SIZE	..CDEF....KL.N.....
	2 HA1-6686-000		1	ACTUATER, FU COVER SENSOR	
	3 HF1-0677-000		3	EJECT GUIDE ROLLER	
	4 HG1-2386-000		1	EJECT ROLLER UNIT	
	5 HG1-2387-000		1	FIXING UNIT	.B.....J.....P....
	HG1-2539-000		1	FIXING UNIT	..CDEF.H...KL.N.....
	6 HG1-2600-000		1	FIXING AC PCB ASSEMBLY	
	7 HH7-1557-000		1	R.P. SIZE SWITCH	
	8 HS1-0230-000		1	GEAR, 22T	
	9 RA1-7562-000		1	LEVER, PAPER SENSOR	
	10 HA2-0861-000		1	ROLLER, TRANSFER	
	11 RA1-7628-000		1	CAP, SPRING	
	12 RA1-7629-000		2	ARM, PAPER PICK-UP	
	13 RA1-7632-000		1	COVER, CORD, FRONT	
	14 RA1-7637-000		1	HOLDER, CORD	
	15 RA1-7718-000		1	SPRING, TORSION	
	16 RF1-2400-000		1	PLATE, PAPER GUIDE	
	17 RG1-1608-000		1	CABLE ASS'Y	
	18 RG1-1792-000		1	PICK-UP ROLLER ASS'Y	
	19 RG1-1793-000		1	LEFT TR ROLLER MOUNT ASS'Y	
	20 RG1-1794-000		1	RIGHT TR ROLLER MOUNT ASS'Y	
	21 RG9-0681-000		1	TRANSFER GUIDE ASS'Y	
	22 RS1-0290-000		1	GEAR, 30T	
	23 RS1-0292-000		1	GEAR, 27T	
	24 RS1-2244-000		1	SPRING, COMPRESSION	
	25 WG8-0323-000		2	PHOTO-INTERRUPTER	
	26 HG1-2351-000		1	RECORDING PAPER TRAY UNIT	.B.....H.J.....P....
	HG1-2797-000		1	RECORDING PAPER TRAY UNIT	..CDEF....KL.N.....

106. FIXING ASSEMBLY

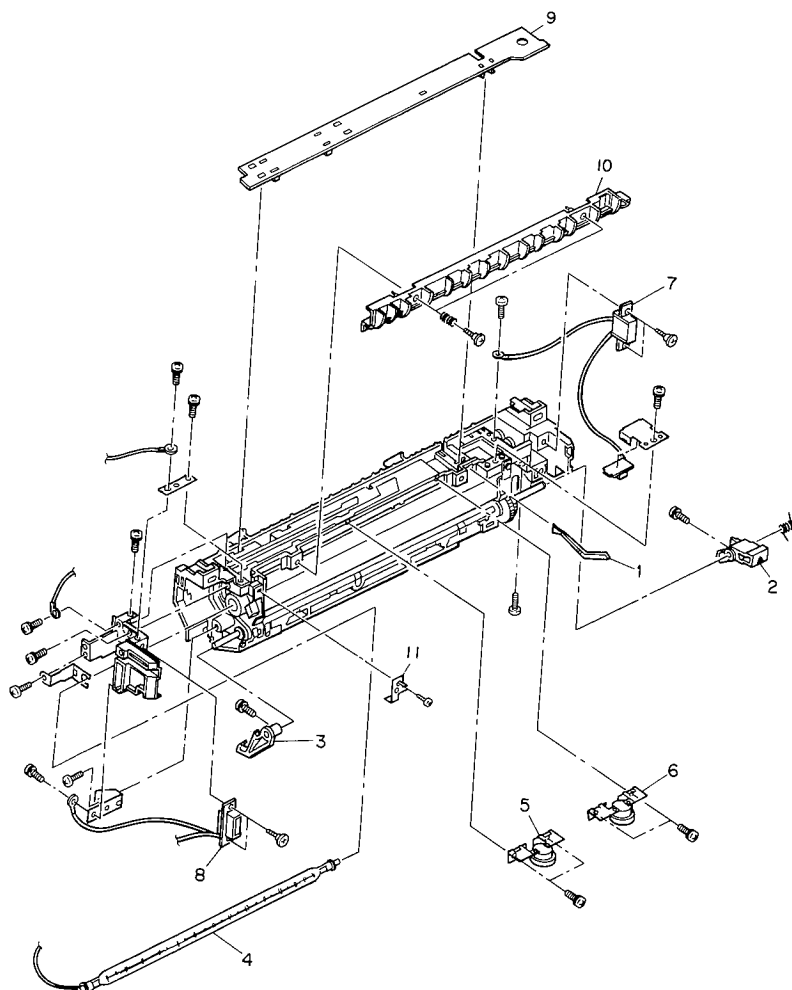


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
106	HG1-2387-000		1	FIXING ASSEMBLY	.B.....J.....P..... ..CDEF.H...KL.N.....
	HG1-2539-000		1	FIXING ASSEMBLY	
	1 HA1-6668-000		1	LEVER, DELIVERY SENSOR	
	2 RA1-7592-000		1	PLATE, HOOK, RIGHT	
	3 RA1-7593-000		1	PLATE, HOOK, LEFT	
	4 RH7-4032-000		1	HEATER, HALOGEN	.B.....J.....P..... ..CDEF.H...KL.N.....
	RH7-4033-000		1	HEATER, HALOGEN	
	5 RF1-2483-000		1	THERMO SWITCH (CONT)	
	6 RF1-2484-000		1	THERMO SWITCH (NOC)	
	7 RF1-2405-000		1	CABLE, THERMISTOR	
	8 RF1-2427-000		1	CABLE, AC CONNECTOR	..CDEF.H...KL.N.....
	9 RA1-7610-050		1	COVER, WIRE	
	10 HF1-0680-000		1	GUIDE, PAPER DELIVERY	
	11 HA1-7795-000		1	COVER, HEATER HALOGEN	

107. INTERNAL COVER ASSEMBLY

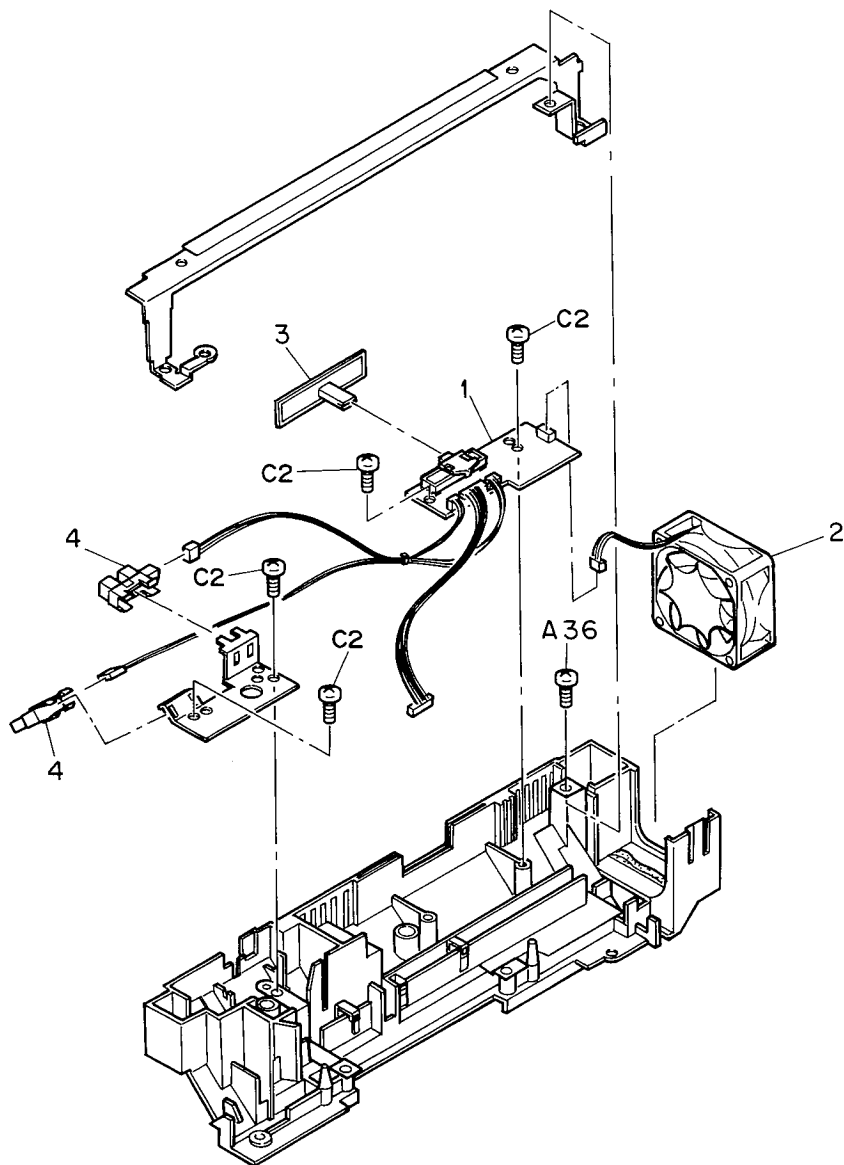
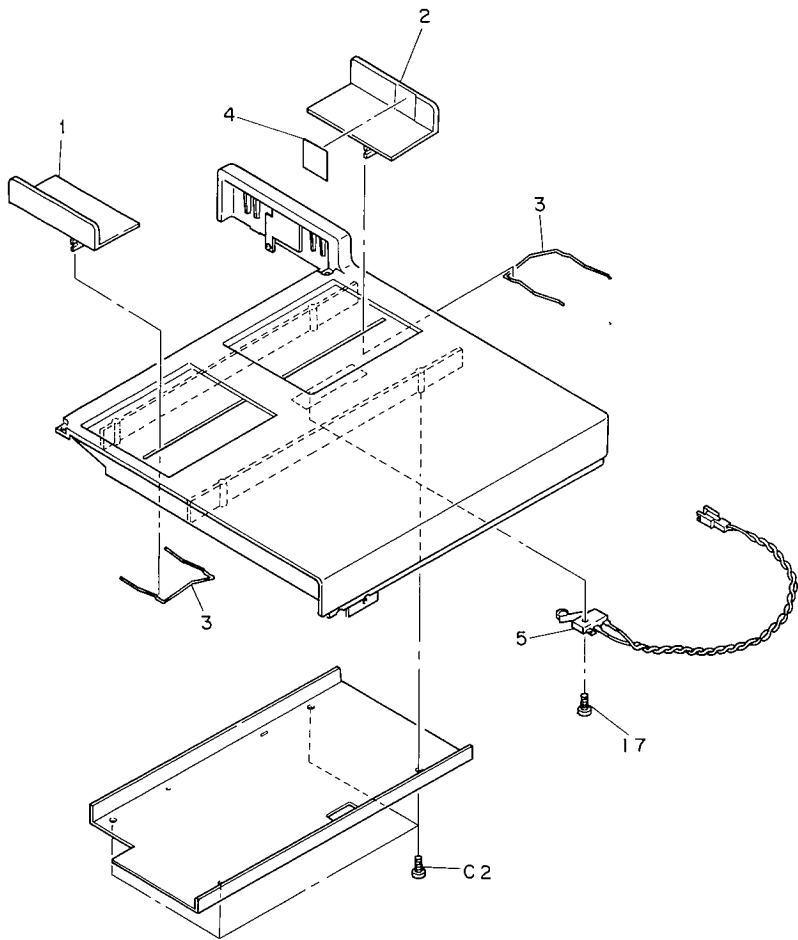


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
107	HG1-2517-000		RF	INTERNAL COVER ASSEMBLY	
1	HG1-2518-000		1	DENSITY ADJUSTING CARD UNIT	
2	HH7-1581-000		1	FAN, CF60-T219NID	
3	RA1-7457-000		1	PRINT DENSITY SLIDER	
4	WG8-0291-000		2	PHOTO INTERRUPTER	

108. UPPER COVER UNIT



109. CASSETTE FEEDER UNIT

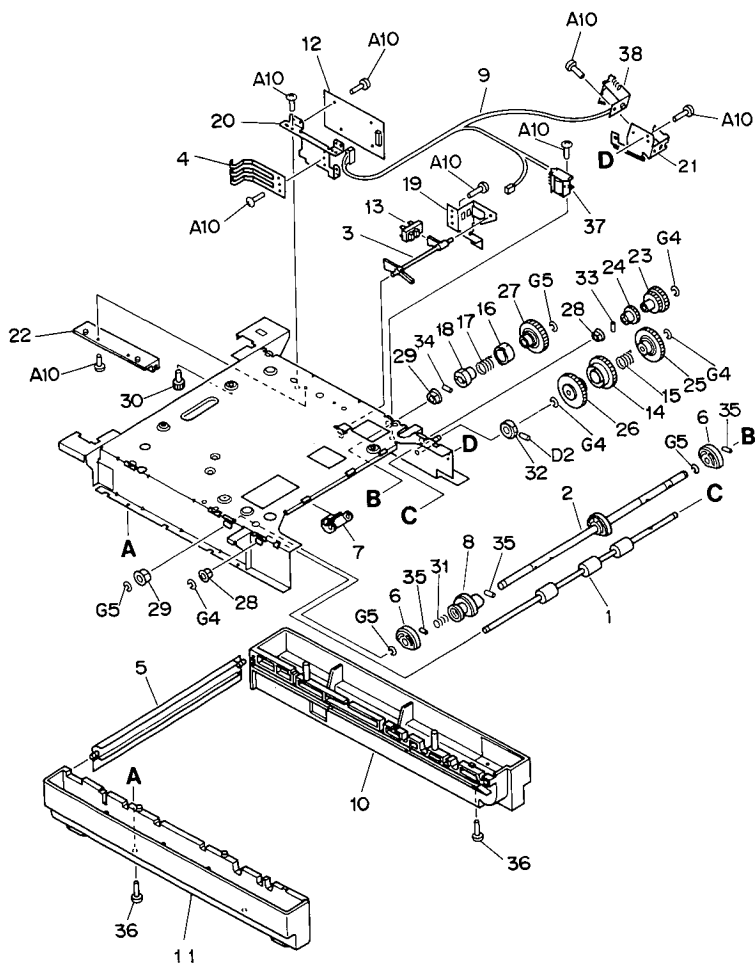
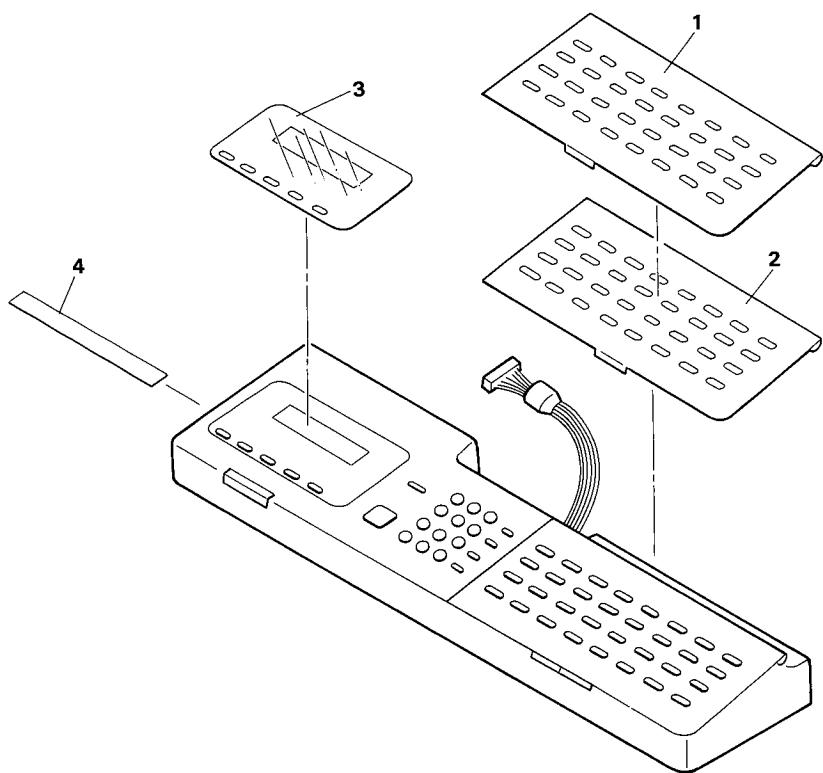


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
109	NPN		RF	CASSETTE FEEDER UNIT	
1	RA1-7654-000		1	SHAFT, FEED ROLLER	
2	RA1-7655-000		1	SHAFT, PICK-UP ROLLER	
3	RA1-7661-000		1	ARM, SENSING	
4	RA1-7664-000		1	SPRING, LEAF	
5	RA1-7668-000		1	COVER, STOP	
6	RA1-7674-000		3	ROLLER, PICK-UP	
7	RA1-7821-000		3	GUIDE, ROLLER	
8	RA1-7824-000		1	ROLLER, PICK-UP	
9	RF1-2406-000		1	CABLE	
10	RF1-2418-000		1	COVER, FEEDER, RIGHT	
11	RF1-2419-000		1	COVER, FEEDER, LEFT	
12	RG1-1596-000		1	CASSETTE FEEDER PCB ASS'Y	
13	WG8-0291-000		1	PHOTO-INTERRUPTER	
14	RA1-7656-000		1	RING, RATCHET, A	
15	RA1-7657-000		1	SPRING, CLUTCH, A	
16	RA1-7658-000		1	RING, RATCHET, B	
17	RA1-7659-000		1	SPRING, CLUTCH, B	
18	RA1-7660-000		1	RING	
19	RA1-7662-000		1	MOUNT, SENSOR	
20	RA1-7663-000		1	MOUNT, PCB	
21	RA1-7665-000		1	MOUNT, SOLENOID	
22	RA1-7666-000		1	GUIDE, CASSETTE	
23	RS1-0295-000		1	GEAR, 33T/19T	
24	RS1-0296-000		1	GEAR, 17T	
25	RS1-0297-000		1	GEAR, 37T	
26	RS1-0298-000		1	GEAR, 39T	
27	RS1-0299-000		1	GEAR, 34T	
28	RS1-1053-000		2	BUSHING	
29	RS1-1054-000		2	BUSHING	
30	XA9-0494-000		4	SCREW, M3	
31	RS1-2254-000		1	SPRING, COMPRESSION	
32	RS1-6047-000		1	COLLAR, RETAINING	
33	XD3-2160-082		1	PIN, PARALLEL 1.6 x 8	
34	XD3-2200-122		1	PIN, PARALLEL 2 x 12	
35	XD3-2200-142		3	PIN, PARALLEL 2 x 14	
36	XB1-2300-603		4	SCREW, BH 3 x 6	
37	RH2-5025-000		1	SOLENOID, DC24V	
38	RH2-5026-000		1	SOLENOID, DC24V	

110. OPERATION PANEL UNIT



111. OTHERS (L770 #1)

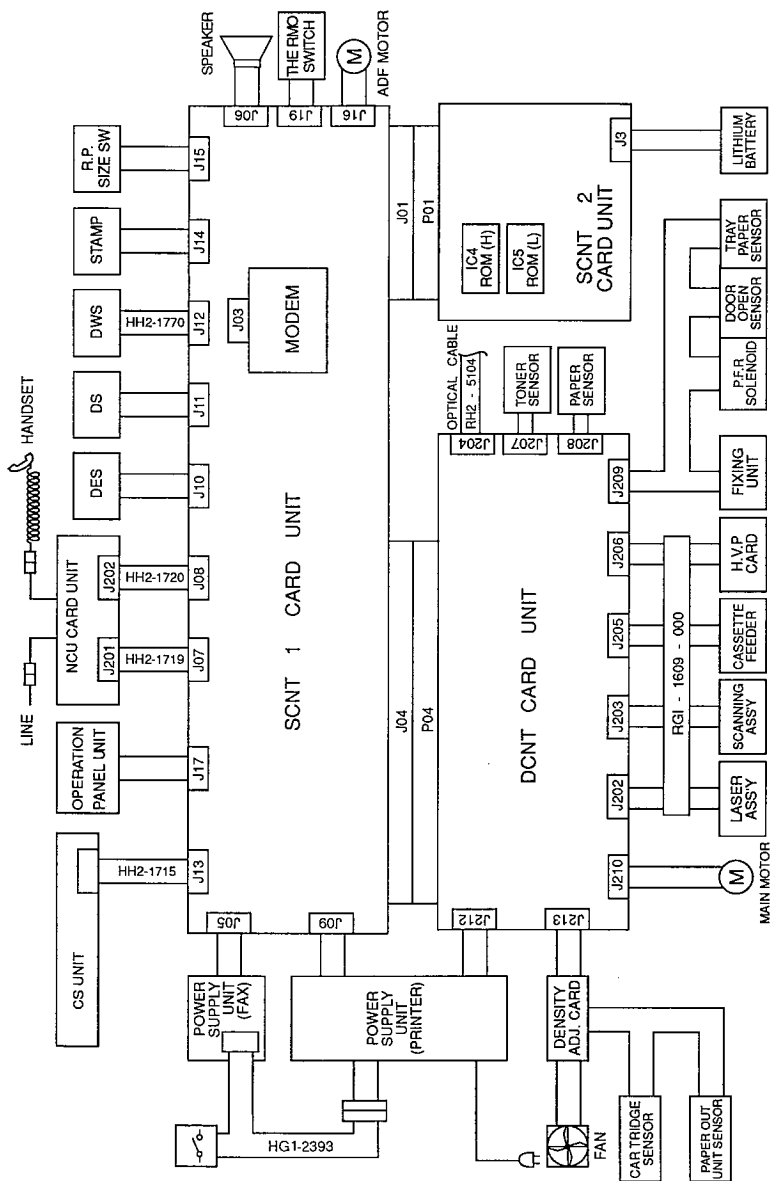
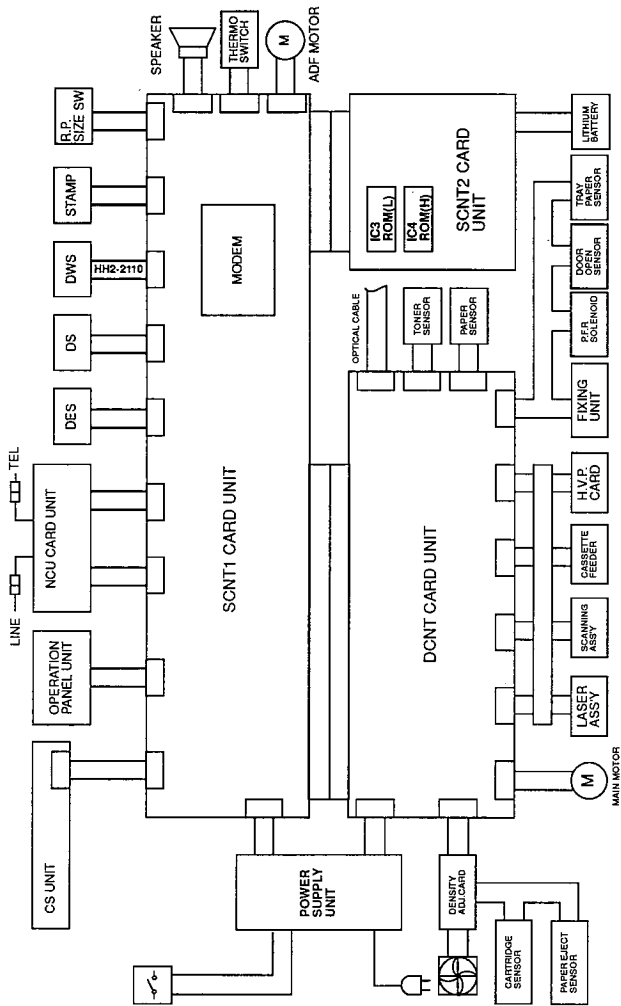


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
111	NPN IC 4 HH4-1984-000 HH4-1998-000 HH4-2003-000 HH4-2111-000		RF 1 1 1 1	OTHERS (L770#1) AM27C010-155DG (ROM H) MASK ROM LH530863 (ROM H) uPD27C2001D-15 (ROM H) uPD27C2001D-15 (ROM H)	J..... ..B.....E.....H.....
	HH4-2123-000 HH4-2144-000 IC 5 HH4-1985-000 HH4-1999-000 HH4-2004-000		1 1 1 1 1	MASK ROM LH532H40 (ROM H) EPROM HN27C201G (ROM H) AM27C010-155DG (ROM L) MASK ROM LH530864 (ROM L) uPD27C2001D-15 (ROM L)	..C..F....KL.N.....D.....J..... ..B.....E.....
	HH4-2112-000 HH4-2124-000 HH4-2145-000		1 1 1	uPD27C2001D-15 (ROM L) MASK ROM LH532H41 (ROM L) EPROM HN27C201G (ROM L)	H..... ..C..F....KL.N.....D.....

112. OTHERS (L770 #2)



B	DETAILED PARTS (FAX-L760)
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- 201. EXTERNAL COVERS, ETC.
- 202. INTERNAL COMPONENTS
- 203. ADF UNIT
- 204. PRINTER UNIT
- 205. PRINTER COVER & RECORDING PAPER TRAY UNIT
- 206. FIXING ASSEMBLY
- 207. INTERNAL COVER ASSEMBLY
- 208. UPPER COVER UNIT
- 209. CASSETTE FEEDER UNIT
- 210. OPERATION PANEL UNIT
- 211. OTHERS (L760#1)
- 212. OTHERS (L760#2)

201. EXTERNAL COVERS, ETC.

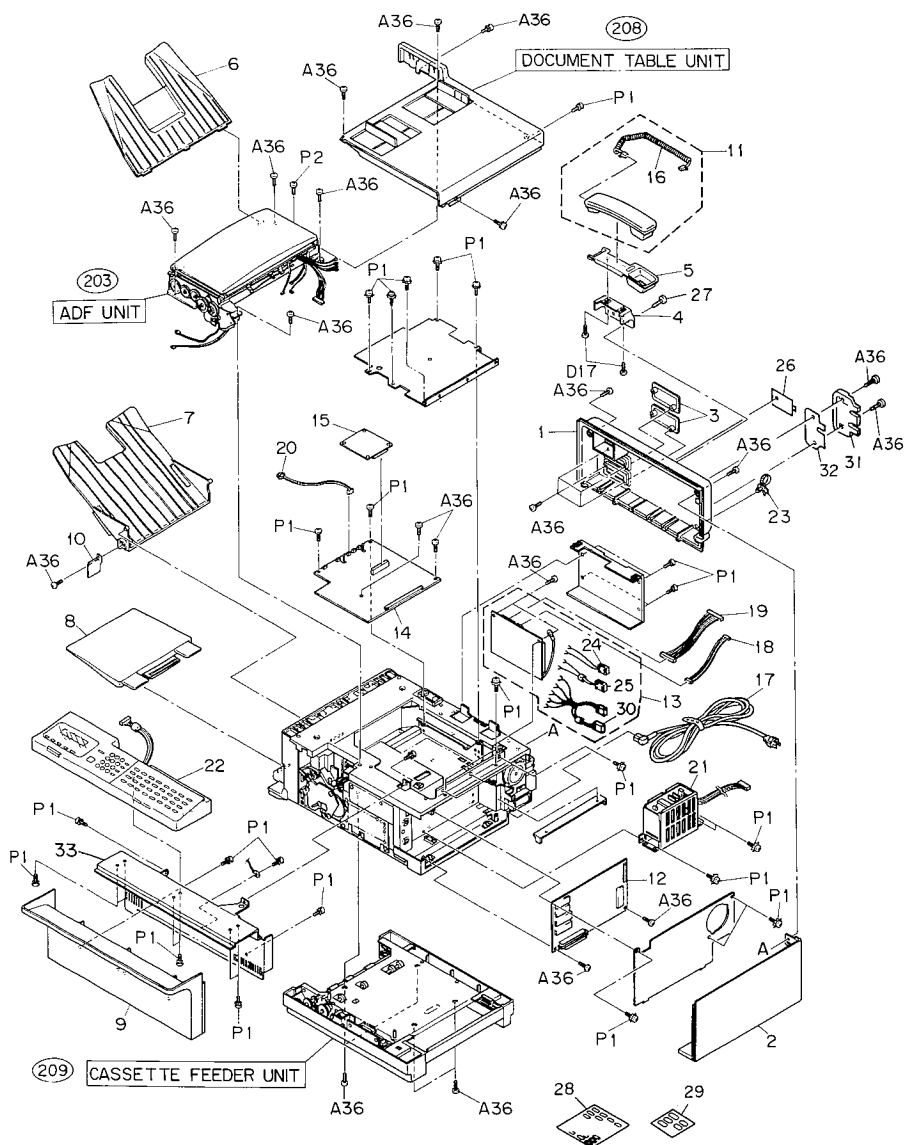


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
201	NPN		RF	EXTERNAL COVERS, ETC.	
	1 HA1-6552-000		1	REAR COVER	
	2 HA1-5663-000		1	SIDE COVER	
	3 HA1-6555-000		2	CONNECTOR COVER	
	4 HA1-6559-000		1	STAY, HANDSET HOLDER	... D
	5 HA1-6560-000		1	HANDSET REST (2)	... D
	6 HA1-6578-000		1	DOCUMENT TRAY	
	7 HA1-6579-000		1	EJECT PAPER TRAY	
	8 HA1-6580-000		1	EXTENSION TRAY	
	9 HA1-6591-000		1	FRONT COVER	
	10 HA1-6687-000		1	PROTECT COVER	.. C D . F . H
	HA1-7613-000		1	PROTECT COVER	... E
	HA2-0147-000		1	PROTECT COVER	.. B L
	11 HG1-3039-000		1	HANDSET UNIT	... D
	12 HG1-3229-000		1	SCNT 2 CARD UNIT	.. B
	HG1-3270-000		1	SCNT 2 CARD UNIT	.. C H
	HG1-3271-000		1	SCNT 2 CARD UNIT	... D
	HG1-3272-000		1	SCNT 2 CARD UNIT	... E
	HG1-3273-000		1	SCNT 2 CARD UNIT	... F
	HG1-3314-000		1	SCNT 2 CARD UNIT	 L
	13 HG1-2394-000		1	NCU CARD UNIT	.. B L
	HG1-2396-000		1	NCU CARD UNIT	... C . F
	HG1-2397-000		1	NCU CARD UNIT	... E
	HG1-2399-000		1	NCU CARD UNIT	 H
	HG1-3071-000		1	NCU CARD UNIT	... D
	14 HG1-2519-000		1	SCNT 1 CARD UNIT	.. B
	HG1-2662-000		1	SCNT 1 CARD UNIT	... C D ... H
	HG1-2876-000		1	SCNT 1 CARD UNIT	 F
	HG1-3193-000		1	SCNT 1 CARD UNIT	... E
	HG1-3313-000		1	SCNT 1 CARD UNIT	 L
	15 HG1-3487-000		1	MODEM CARD UNIT	.. B C D E F . H
	16 HH2-1995-000		1	COILED CORD	... D
	17 HH2-1718-000		1	POWER SUPPLY CORD	.. B L
	HH2-1727-000		1	POWER SUPPLY CORD	... C . E F
	HH2-1728-000		1	POWER SUPPLY CORD	... D
	18 HH2-1730-000		1	POWER SUPPLY CORD	 H
	19 HH2-1719-000		1	CABLE ASSEMBLY 7 PIN	
	20 HH2-1720-000		1	CABLE ASSEMBLY 15 PIN	
	21 HH2-1770-000		1	CABLE ASSEMBLY 2 PIN	
	HH3-5143-000		1	POWER SUPPLY UNIT	.. B
	21 HH3-5144-000		1	POWER SUPPLY UNIT	.. C D E F . H
	22 HH7-1707-000		1	OPERATION PANEL UNIT	.. B L
	HH7-1711-000		1	OPERATION PANEL UNIT	... C D . F . H
	HH7-1724-000		1	OPERATION PANEL UNIT	... E
	23 WT2-5014-000		1	CABLE TIE	

FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
24	HH2-1277-000		1	MODULAR JACK	.B.....L.....
25	HH2-1722-000		1	MODULAR JACK	.B.....L.....
26	HA2-0145-000		1	COVER, ENTRY SW	
27	XB1-2301-607		1	SCREW, MACHINE M3-10	
28	HA1-6581-000		2	ADDRESS LABEL	
29	HA1-7509-000		1	LABEL, PROGRAM KEY	...D.....
	HA2-0868-000		1	LABEL, MERCURY	...CDEF.H.....
30	HH2-1908-000		1	MODULAR JACK W/CORD	...CDEF.H.....
31	HA1-6589-000		1	MODULAR COVER	...C.....
32	HA2-0532-000		1	MODULAR SHEET	
33	HA1-6592-000		1	FRAME, OPERATION PANEL	

202. INTERNAL COMPONENTS

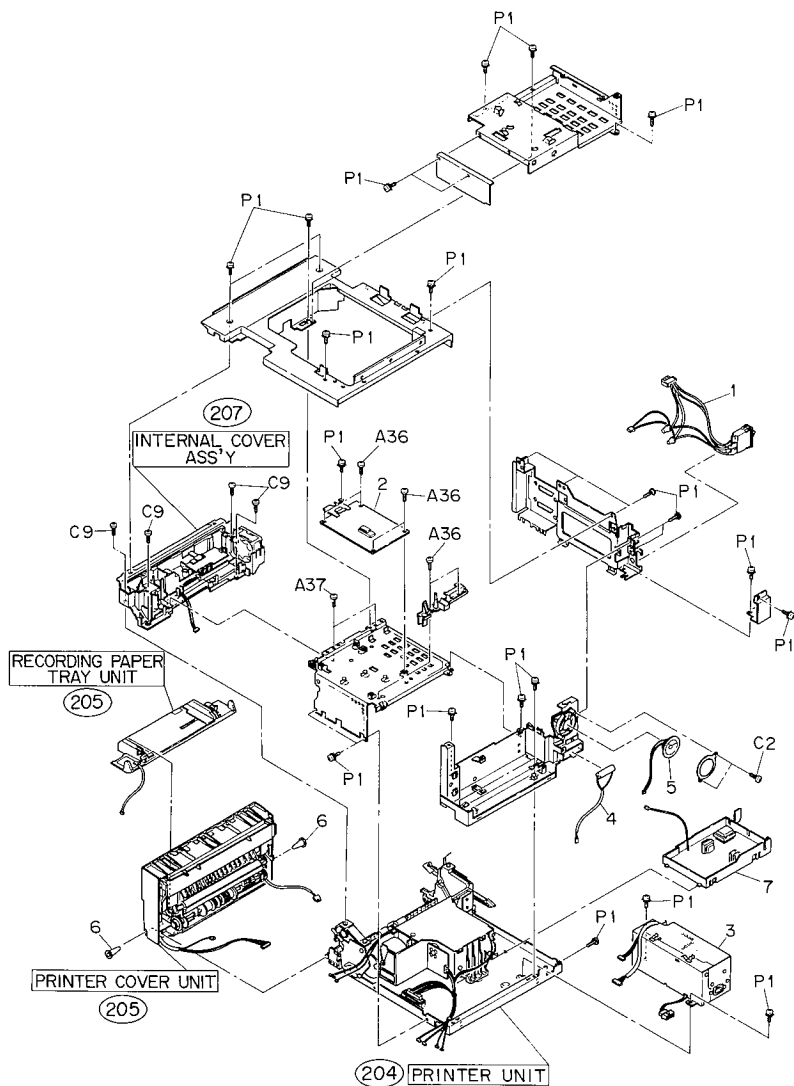


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
202	NPN		RF	INTERNAL COMPONENTS	
1	HG1-2393-000		1	POWER SW ASSEMBLY	. B
	HG1-2889-000		1	POWER SW ASSEMBLY	. . C D E F . H
	WC1-0125-000		1	POWER SW	 L
2	HG1-2453-000		1	DCNT CARD UNIT	
3	HG1-2660-000		1	POWER SUPPLY UNIT (PRINTER)	. B L
	HG1-2661-000		1	POWER SUPPLY UNIT (PRINTER)	. . C D E F . H
4	HH7-1212-000		1	LITHIUM BATTERY	. B C D E F . H
5	HH7-1399-000		1	SPEAKER UNIT	
6	RA1-7499-000		2	PIVOT	
7	RG9-0695-000		1	H.V. POWER SUPPLY CARD UNIT	

203. ADF UNIT

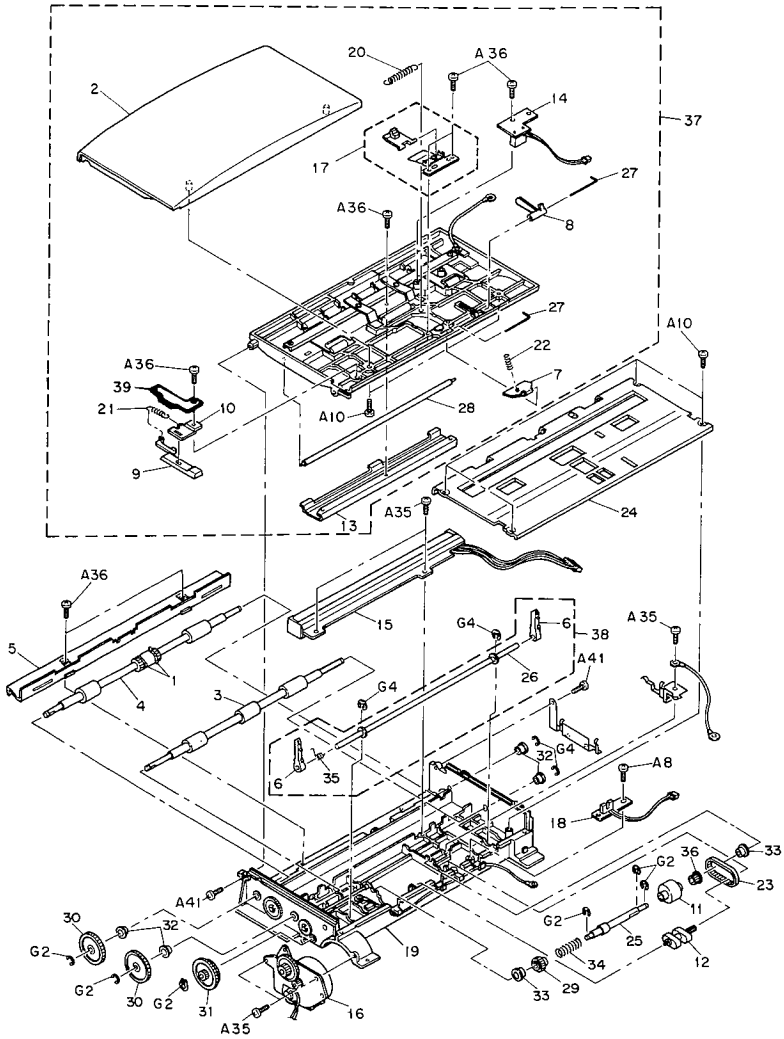


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
203	HG1-3227-000 HG1-3228-000 HG1-3286-000 1 HA1-4642-000 2 HA1-6554-000		1 1 1 2 1	ADF UNIT ADF UNIT ADF UNIT SUB ROLLER, EJECT ADF COVER	B..... CDEF.H.....L.....
	3 HA1-6603-000 4 HA1-6604-000 5 HA1-6612-000 6 HA1-6613-000 7 HA1-6631-000		1 1 1 2 1	ROLLER, DOCUMENT FEED ROLLER, DOCUMENT EJECT BRACKET, DOCUMENT TRAY HOOK LEVER SUB SEPARATION GUIDE	
	8 HA1-6637-000 9 HA1-6648-000 10 HA1-6649-000 11 HA1-7351-000 12 HA1-7352-000		1 1 1 1 1	ACTUATOR, DS RELEASE KNOB, ADF COVER RELEASE LEVER, ADF COVER SEPARATION ROLLER SUB SEPARATION ROLLER	
	13 HF1-0673-000 14 HG1-2346-000 15 HG1-2347-000 HG1-2737-000 HG1-3285-000		1 1 1 1 1	PRESSURE PLATE, DOCUMENT DOCUMENT EDGE SENSOR CONTRACT SENSOR UNIT CONTRACT SENSOR UNIT CONTRACT SENSOR UNIT	B..... CDEF.H.....L.....
	16 HG1-2348-000 HG1-3483-000 17 HG1-2383-000 18 HG1-2402-000 19 HF1-0672-000		1 1 1 1 1	ADF DRIVE UNIT ADF DRIVE UNIT SEPARATION GUIDE DOCUMENT SENSOR ADF FRAME UNIT	BCDEF.H.....L.....
	20 HS1-2217-000 21 HS1-2218-000 22 HS1-2221-000 23 XF9-0305-000 24 HA1-6602-000		1 1 1 1 1	SPRING SPRING SPRING COGGED BELT DOCUMENT GUIDE, LOWER	
	25 HA1-6607-000 26 HA1-6614-000 27 HA1-6632-000 28 HA1-6644-000 29 HS1-0223-000		1 1 2 1 1	SHAFT, SUB SEPARATION ROLLER SHAFT, HOOK LEVER SHAFT SHAFT, DOCUMENT PRESSURE GEAR, 15T	
	30 HS1-0225-000 31 HS1-0226-000 32 HS1-1017-000 33 HS1-1030-000 34 HS1-2033-000		2 1 4 2 1	GEAR, 68T GEAR, 68/80T BUSHING, 6MM BUSHING, 4MM SPRING, CLUTCH	
	35 HS1-2222-000 36 HS1-3064-000 37 HG1-2345-000 38 HG9-0495-000 39 HA1-8682-000		1 1 1 1 1	SPRING PULLY, 15T DOCUMENT GUIDE UNIT (UPPER) HOOK LEVER ASSY PLATE, RELEASE	

204. PRINTER UNIT

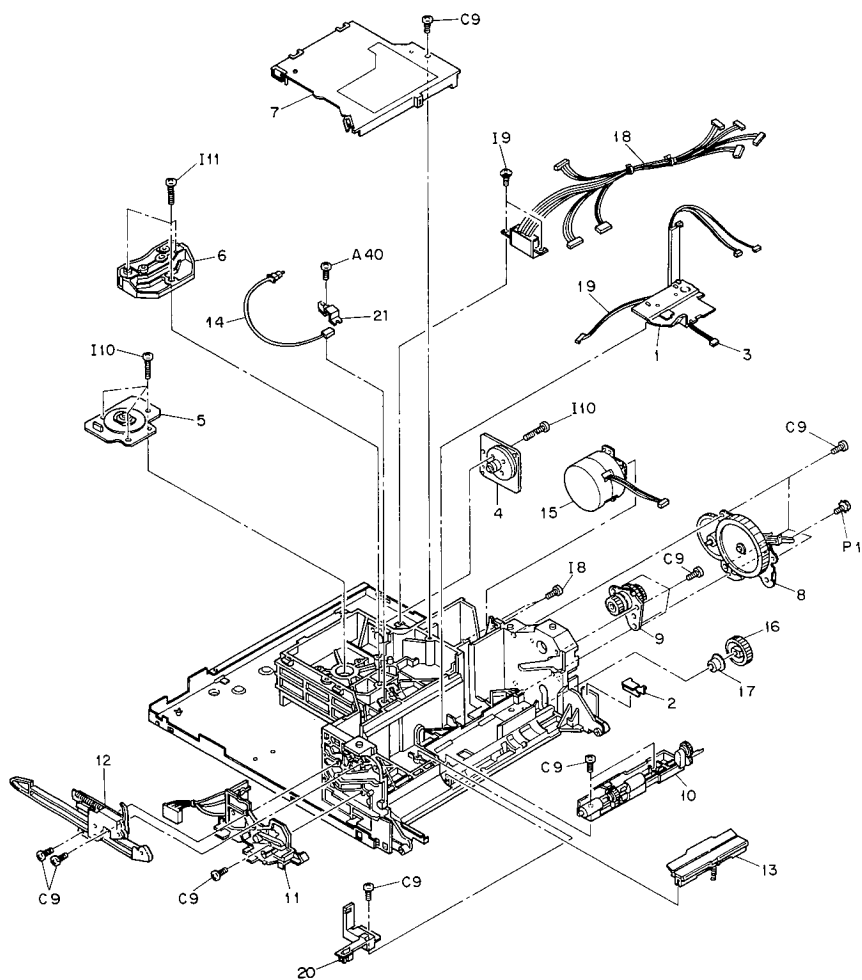


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
204	NPN		RF	PRINTER UNIT	
	1 RA1-7502-000		1	COVER, CABLE	
	2 RA1-7506-000		1	COVER, CORD	
	3 RF1-2385-000		1	CABLE, SENSOR	
	4 RG1-1769-000		1	LASER ASSEMBLY	
	5 RG1-1771-030		1	SCANNER MOTOR ASSEMBLY	
	6 RG1-1772-000		1	LENS ASSEMBLY	
	7 RG1-1773-040		1	SHUTTER ASSEMBLY	
	8 RG1-1776-000		1	DRIVE ASSEMBLY	
	9 RG1-1777-000		1	DRUM DRIVE ASSEMBLY	
	10 RG1-1778-030		1	FEEDER ASSEMBLY	
	11 RG1-1780-000		1	H.V. CONTACT ASSEMBLY	
	12 RG1-1781-030		1	ROD ASSEMBLY	
	13 RG1-1912-000		1	SEPARATION PAD UNIT	
	14 RH2-5104-000		1	OPTICAL FIBER CABLE	
	15 RH7-1094-000		1	MOTOR, STEPPING, DC4W	
	16 RS1-0284-000		1	GEAR, 30T	
	17 RS1-1048-000		1	BUSHING	
	18 RG1-1609-000		1	REAR CABLE ASSEMBLY	
	19 HH2-1774-000		1	CABLE ASSEMBLY, 3 PIN	
	20 HH7-1576-000		1	TONER SENSOR	
	21 RA1-7446-000		1	BLOCK, FIBER HOLDER	

205. PRINTER COVER & RECORDING PAPER TRAY UNIT

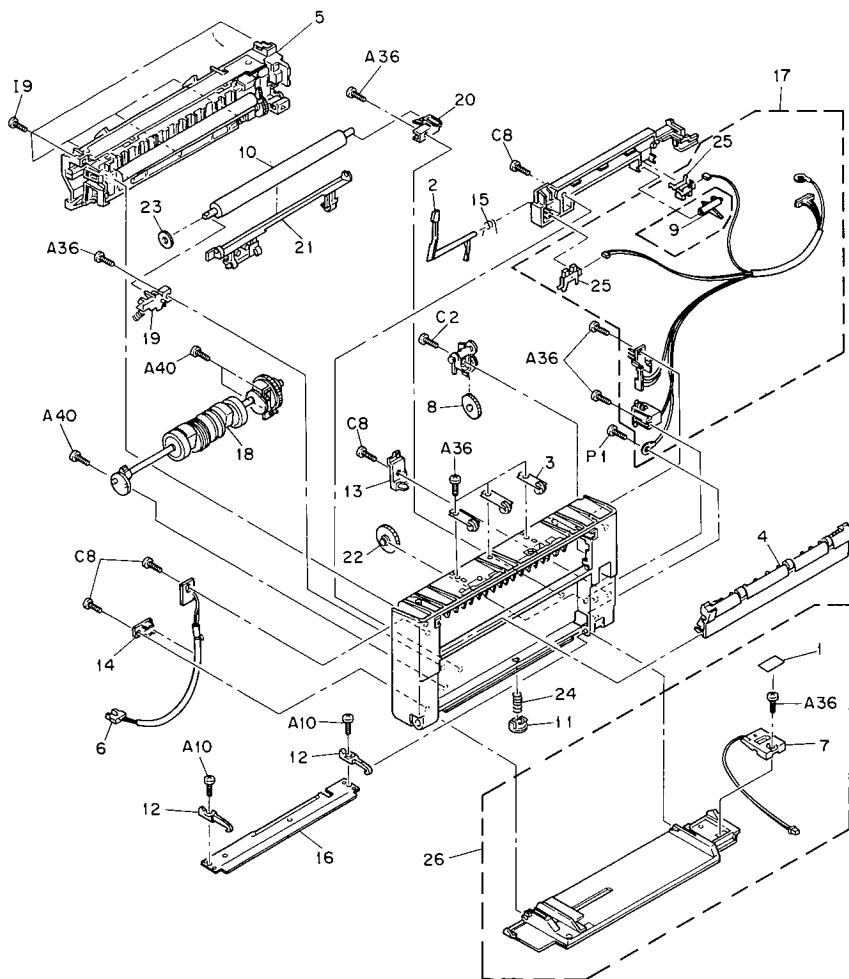


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
205	HG1-2350-000		1	PRINTER COVER UNIT	B.....L.....
	HG1-2538-000		1	PRINTER COVER UNIT	..CDEF.H.....
1	HA1-6683-000		1	SWITCH LABEL, PAPER SIZE	B.....L.....
	HA1-7752-000		1	SWITCH LABEL, PAPER SIZE	..CDEF.H.....
2	HA1-6686-000		1	ACTUATER, FU COVER SENSOR	
3	HF1-0677-000		3	EJECT GUIDE ROLLER	
4	HG1-2386-000		1	EJECT ROLLER UNIT	
5	HG1-2387-000		1	FIXING UNIT	B.....L.....
	HG1-2539-000		1	FIXING UNIT	..CDEF.H.....
6	HG1-2600-000		1	FIXING AC PCB ASSEMBLY	
7	HH7-1557-000		1	R.P. SIZE SWITCH	
8	HS1-0230-000		1	GEAR, 22T	
9	RA1-7562-000		1	LEVER, PAPER SENSOR	
10	HA2-0861-000		1	ROLLER, TRANSFER	
11	RA1-7628-000		1	CAP, SPRING	
12	RA1-7629-000		2	ARM, PAPER PICK-UP	
13	RA1-7632-000		1	COVER, CORD, FRONT	
14	RA1-7637-000		1	HOLDER, CORD	
15	RA1-7718-000		1	SPRING, TORSION	
16	RF1-2400-000		1	PLATE, PAPER GUIDE	
17	RG1-1608-000		1	CABLE ASS'Y	
18	RG1-1792-000		1	PICK-UP ROLLER ASS'Y	
19	RG1-1793-000		1	LEFT TR ROLLER MOUNT ASS'Y	
20	RG1-1794-000		1	RIGHT TR ROLLER MOUNT ASS'Y	
21	RG9-0681-000		1	TRANSFER GUIDE ASS'Y	
22	RS1-0290-000		1	GEAR, 30T	
23	RS1-0292-000		1	GEAR, 27T	
24	RS1-2244-000		1	SPRING, COMPRESSION	
25	WG8-0323-000		2	PHOTO-INTERRUPTER	
26	HG1-2351-000		1	RECORDING PAPER TRAY UNIT	B.....L.....
	HG1-2797-000		1	RECORDING PAPER TRAY UNIT	..CDEF.H.....

206. FIXING ASSEMBLY

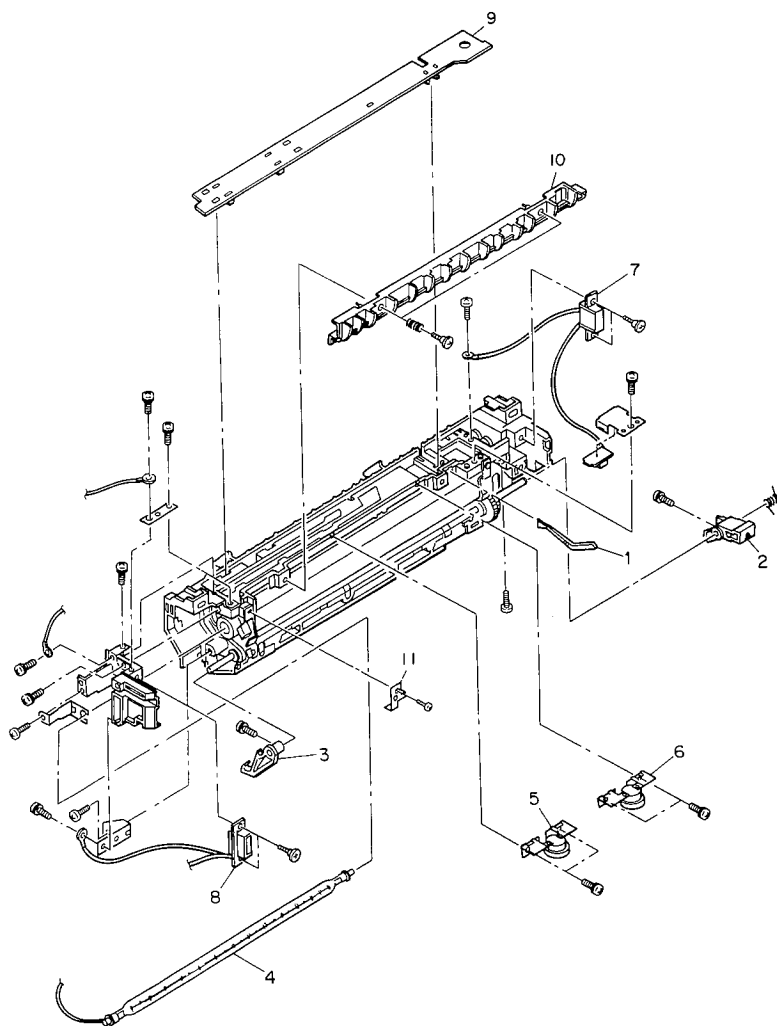


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
206	HG1-2387-000		1	FIXING ASSEMBLY	B.....L.....
	HG1-2539-000		1	FIXING ASSEMBLY	CDEF.H.....
	1 HA1-6668-000		1	LEVER, DELIVERY SENSOR	
	2 RA1-7592-000		1	PLATE, HOOK, RIGHT	
	3 RA1-7593-000		1	PLATE, HOOK, LEFT	
	4 RH7-4032-000		1	HEATER, HALOGEN	B.....L.....
	RH7-4033-000		1	HEATER, HALOGEN	CDEF.H.....
	5 RF1-2483-000		1	THERMO SWITCH (CONT)	
	6 RF1-2484-000		1	THERMO SWITCH (NOC)	
	7 RF1-2405-000		1	CABLE, THERMISTOR	
	8 RF1-2427-000		1	CABLE, AC CONNECTOR	
	9 RA1-7610-050		1	COVER, WIRE	
	10 HF1-0680-000		1	GUIDE, PAPER DELIVERY	
	11 HA1-7795-000		1	COVER, HEATER HALOGEN	CDEF.H.....

207. INTERNAL COVER ASSEMBLY

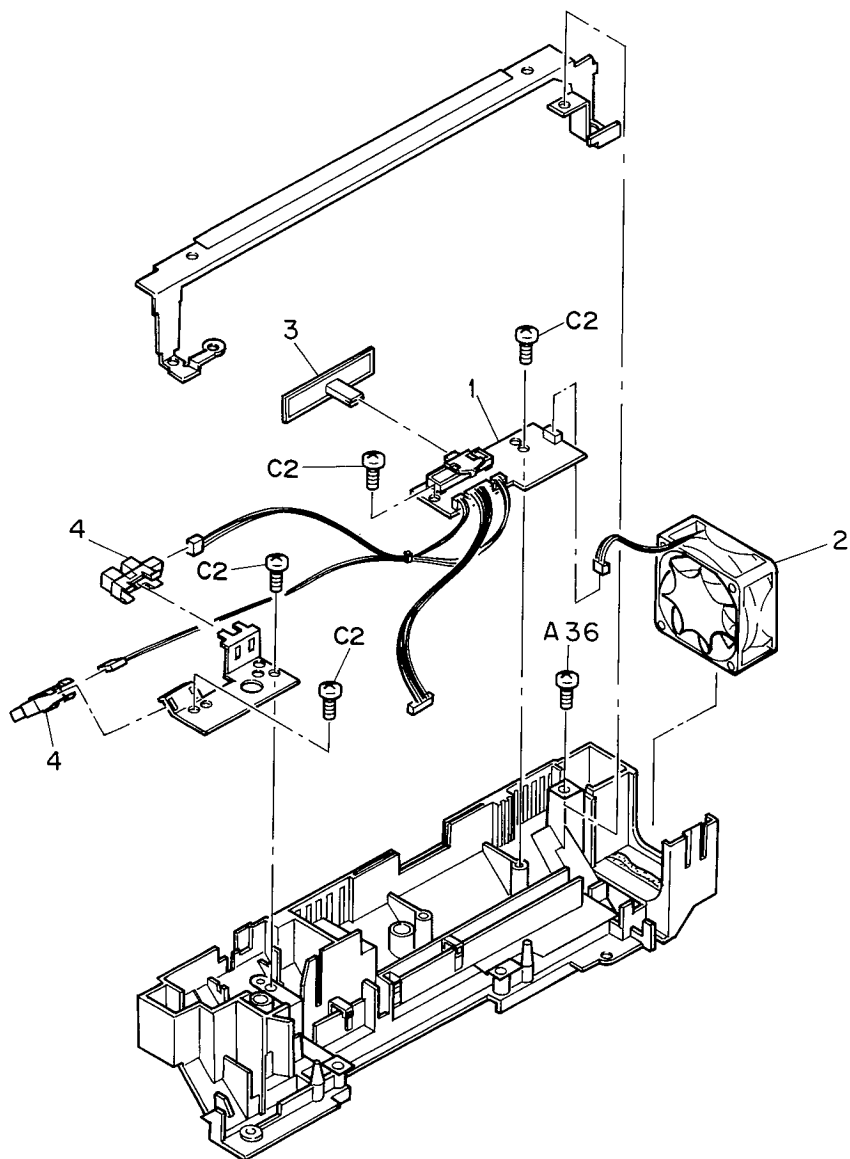


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
207	HG1-2517-000		RF	INTERNAL COVER ASSEMBLY	
1	HG1-2518-000		1	DENSITY ADJUSTING CARD UNIT	
2	HH7-1581-000		1	FAN, CF60-T219NID	
3	RA1-7457-000		1	PRINT DENSITY SLIDER	
4	WG8-0291-000		2	PHOTO INTERRUPTER	

208. UPPER COVER UNIT

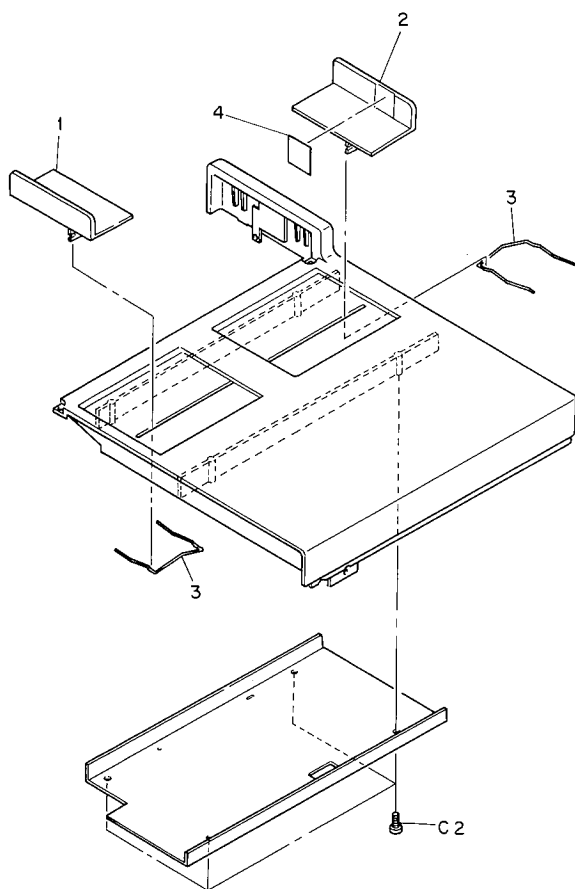


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
208	HG1-3226-000		1	UPPER COVER UNIT	
1	HA1-6571-000		1	DOCUMENT GUIDE (LEFT)	
2	HA1-6572-000		1	DOCUMENT GUIDE (RIGHT)	
3	HA1-6597-000		2	STOPPER, DOCUMENT GUIDE	
4	HA1-6598-000		1	STICKER	

This exploded view diagram illustrates the assembly of a mechanical device. The components are labeled as follows:

- 1**: A long shaft or rod.
- 2**: A small cylindrical component, possibly a bush or spacer.
- 3**: A small rectangular component, possibly a bracket or support.
- 4**: A multi-fingered component, possibly a comb or a set of contacts.
- 5**: A long, thin rectangular component, possibly a guide or a support rail.
- 6**: A small cylindrical component, possibly a bush or spacer.
- 7**: A small cylindrical component, possibly a bush or spacer.
- 8**: A small cylindrical component, possibly a bush or spacer.
- 9**: A long, thin rectangular component, possibly a guide or a support rail.
- 10**: A long, thin rectangular component, possibly a guide or a support rail.
- 11**: A long, thin rectangular component, possibly a guide or a support rail.
- 12**: A small rectangular component, possibly a bracket or support.
- 13**: A small rectangular component, possibly a bracket or support.
- 14**: A small cylindrical component, possibly a bush or spacer.
- 15**: A small cylindrical component, possibly a bush or spacer.
- 16**: A small cylindrical component, possibly a bush or spacer.
- 17**: A small cylindrical component, possibly a bush or spacer.
- 18**: A small cylindrical component, possibly a bush or spacer.
- 19**: A small rectangular component, possibly a bracket or support.
- 20**: A small rectangular component, possibly a bracket or support.
- 21**: A small rectangular component, possibly a bracket or support.
- 22**: A small rectangular component, possibly a bracket or support.
- 23**: A small cylindrical component, possibly a bush or spacer.
- 24**: A small cylindrical component, possibly a bush or spacer.
- 25**: A small cylindrical component, possibly a bush or spacer.
- 26**: A small cylindrical component, possibly a bush or spacer.
- 27**: A small cylindrical component, possibly a bush or spacer.
- 28**: A small cylindrical component, possibly a bush or spacer.
- 29**: A small cylindrical component, possibly a bush or spacer.
- 30**: A small rectangular component, possibly a bracket or support.
- 31**: A small cylindrical component, possibly a bush or spacer.
- 32**: A small cylindrical component, possibly a bush or spacer.
- 33**: A small cylindrical component, possibly a bush or spacer.
- 34**: A small cylindrical component, possibly a bush or spacer.
- 35**: A small cylindrical component, possibly a bush or spacer.
- 36**: A small cylindrical component, possibly a bush or spacer.
- 37**: A small rectangular component, possibly a bracket or support.
- 38**: A small rectangular component, possibly a bracket or support.

The diagram also includes several lettered labels indicating specific assembly points or features:

- A**: Indicated at three locations (near components 30, 5, and 11).
- B**: Indicated near component 7.
- C**: Indicated near component 1.
- D**: Indicated near components 19 and 21.

Various other labels are present, including **A10**, **G4**, **G5**, **D2**, and **D**, which likely refer to specific part numbers or specifications.

FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
209	NPN		RF	CASSETTE FEEDER UNIT	
1	RA1-7654-000		1	SHAFT, FEED ROLLER	
2	RA1-7655-000		1	SHAFT, PICK-UP ROLLER	
3	RA1-7661-000		1	ARM, SENSING	
4	RA1-7664-000		1	SPRING, LEAF	
5	RA1-7668-000		1	COVER, STOP	
6	RA1-7674-000		3	ROLLER, PICK-UP	
7	RA1-7821-000		3	GUIDE, ROLLER	
8	RA1-7824-000		1	ROLLER, PICK-UP	
9	RF1-2406-000		1	CABLE	
10	RF1-2418-000		1	COVER, FEEDER, RIGHT	
11	RF1-2419-000		1	COVER, FEEDER, LEFT	
12	RG1-1596-000		1	CASSETTE FEEDER PCB ASS"Y	
13	WG8-0291-000		1	PHOTO-INTERRUPTER	
14	RA1-7656-000		1	RING, RATCHET, A	
15	RA1-7657-000		1	SPRING, CLUTCH, A	
16	RA1-7658-000		1	RING, RATCHET, B	
17	RA1-7659-000		1	SPRING, CLUTCH, B	
18	RA1-7660-000		1	RING	
19	RA1-7662-000		1	MOUNT, SENSOR	
20	RA1-7663-000		1	MOUNT, PCB	
21	RA1-7665-000		1	MOUNT, SOLENOID	
22	RA1-7666-000		1	GUIDE, CASSETTE	
23	RS1-0295-000		1	GEAR, 33T/19T	
24	RS1-0296-000		1	GEAR, 17T	
25	RS1-0297-000		1	GEAR, 37T	
26	RS1-0298-000		1	GEAR, 39T	
27	RS1-0299-000		1	GEAR, 34T	
28	RS1-1053-000		2	BUSHING	
29	RS1-1054-000		2	BUSHING	
30	XA9-0494-000		4	SCREW, M3	
31	RS1-2254-000		1	SPRING, COMPRESSION	
32	RS1-6047-000		1	COLLAR, RETAINING	
33	XD3-2160-082		1	PIN, PARALLEL 1.6 x 8	
34	XD3-2200-122		1	PIN, PARALLEL 2 x 12	
35	XD3-2200-142		3	PIN, PARALLEL 2 x 14	
36	XB1-2300-603		4	SCREW, BH 3 x 6	
37	RH2-5025-000		1	SOLENOID, DC24V	
38	RH2-5026-000		1	SOLENOID, DC24V	

210. OPERATION PANEL UNIT

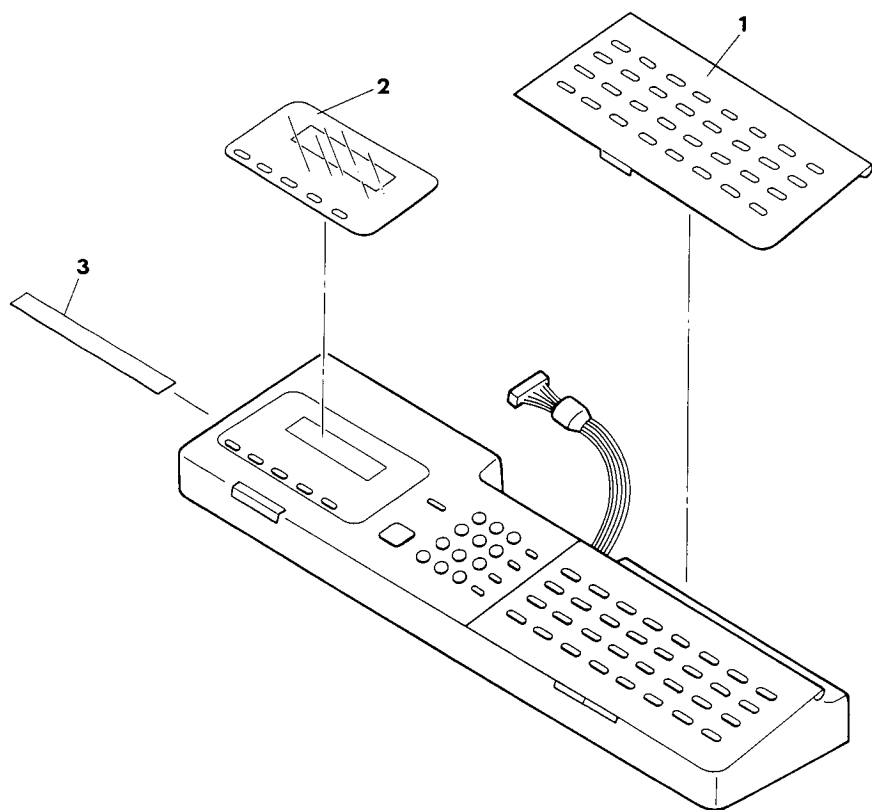


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
210	HH7-1707-000 HH7-1711-000 HH7-1724-000 1 HY7-2511-000 2 HY7-2513-000		1 1 1 1 1	OPERATION PANEL UNIT OPERATION PANEL UNIT OPERATION PANEL UNIT COVER, ONE-TOUCH DIAL (1) DISPLAY PANEL	B.....L..... ...C.D.F.H..... ...E.....
	3 HY7-2515-000 HY7-2532-000		1 1	FUNCTION SHEET (ENGLISH) FUNCTION SHEET (GERMAN)	B.C.D.F.H...L..... ...E.....

211. OTHERS (L760 #1)

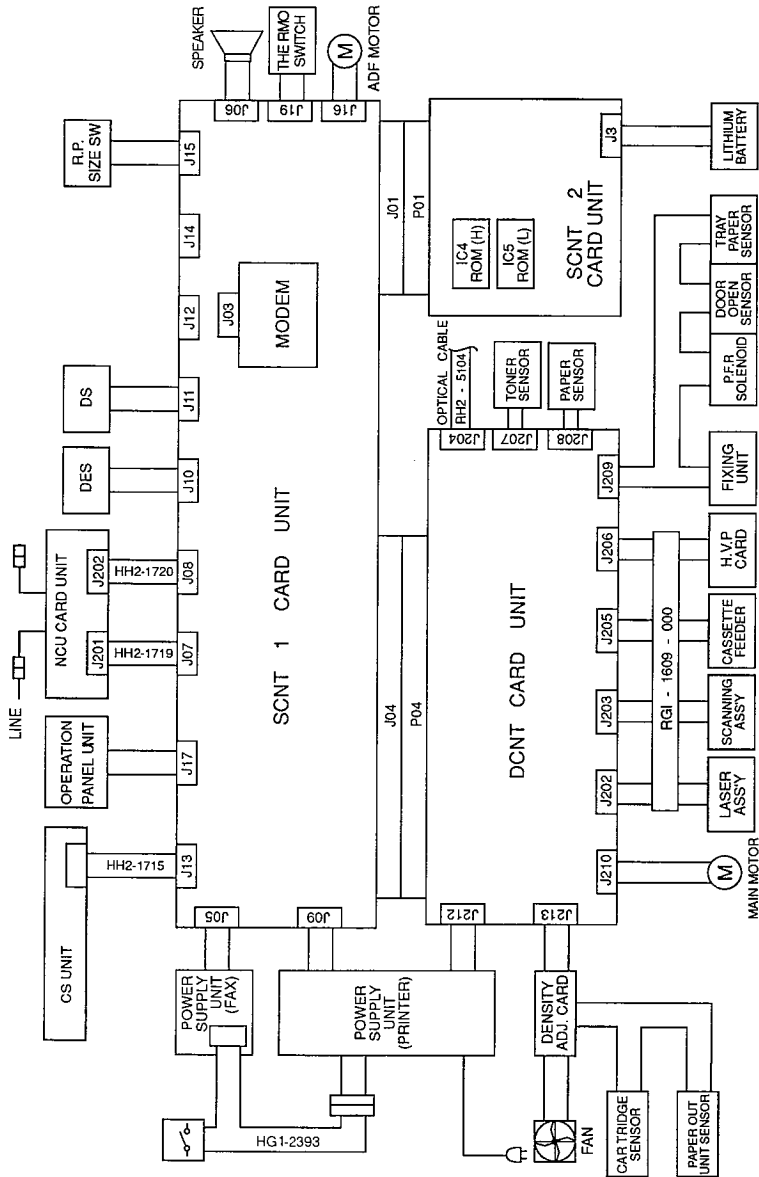
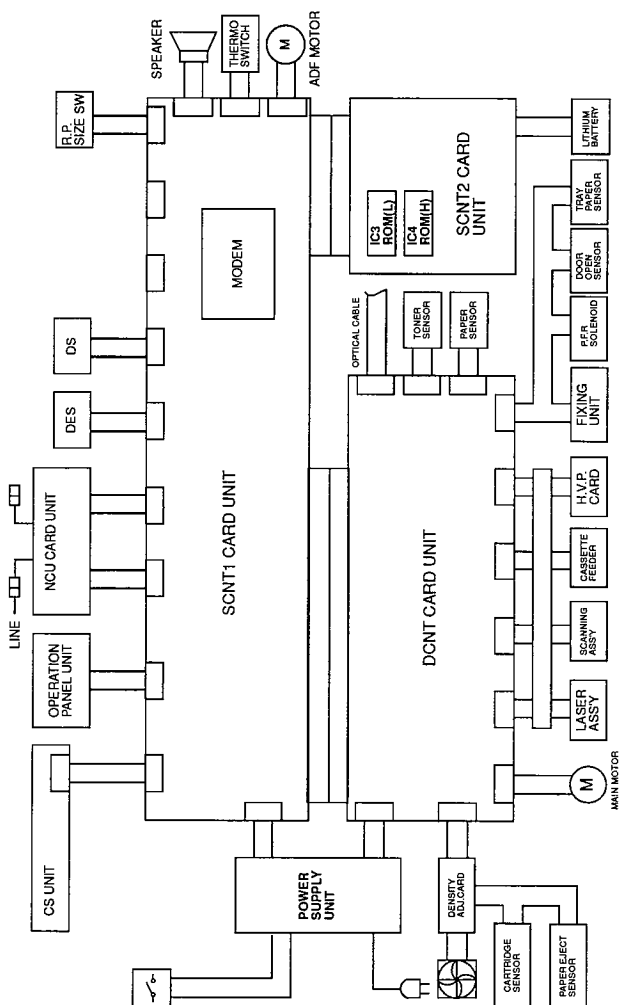


FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
211	NPN		RF	OTHERS (L760#1)	
IC 4	HH4-2148-000		1	EPROM uPD27C2001D-20 (ROM H)	..C..F.H.....
	HH4-2152-000		1	EPROM uPD27C2001D-15 (ROM H)	E.....
	HH4-2166-000		1	MASK ROM L53083H (ROM H)	.B.....
	HH4-2203-000		1	MASK ROM MB832000A (ROM H)	...D.....
IC 5	HH4-2149-000		1	EPROM uPD27C2001D-20 (ROM L)	..C..F.H.....
	HH4-2153-000		1	EPROM uPD27C2001D-15 (ROM L)	E.....
	HH4-2167-000		1	MASK ROM L53083J (ROM L)	.B.....
	HH4-2204-000		1	MASK ROM MB832000A (ROM L)	...D.....

212. OTHERS (L760 #2)



B. SCREWS & WASHERS LIST

FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
B	NPN		RF	SCREWS & WASHERS LIST	
A 1	XB1-1200-807		AR	SCREW, PH2x8	
A 2	XB1-1260-809		AR	SCREW, PH2,3x8	
A 3	XB1-1231-009		AR	SCREW, PH2,3x10	
A 4	XB1-1300-805		AR	SCREW, PH3x8	
A 5	XB1-2201-405		AR	SCREW, BH2x10	
A 6	XB1-2300-405		AR	SCREW, BH3x4	
A 7	XB1-2300-406		AR	SCREW, BH3x4	
A 8	XB1-2300-409		AR	SCREW, BH3x4	
A 9	XB1-2300-605		AR	SCREW, BH3x6	
A10	XB1-2300-609		AR	SCREW, BH3x6	
A11	XB1-2300-805		AR	SCREW, BH3x8	
A12	XB1-2300-809		AR	SCREW, BH3x8	
A13	XB1-2301-605		AR	SCREW, BH3x16	
A14	XB1-2302-009		AR	SCREW, BH3x20	
A15	XB1-2303-005		AR	SCREW, BH3x30	
A16	XB1-2400-405		AR	SCREW, BH4x4	
A17	XB1-2400-604		AR	SCREW, BH4x6	
A18	XB1-2400-605		AR	SCREW, BH4x6	
A19	XB1-2400-606		AR	SCREW, BH4x6	
A20	XB1-2400-607		AR	SCREW, BH4x6	
A21	XB1-2400-609		AR	SCREW, BH4x6	
A22	XB1-2401-009		AR	SCREW, BH4x10	
A23	XB1-2401-205		AR	SCREW, BH4x12	
A24	XB1-2501-005		AR	SCREW, BH4x10	
A25	XB1-3300-409		AR	SCREW, FTH3x4	
A26	XB1-3300-609		AR	SCREW, FTH3x6	
A27	XB1-2400-409		AR	SCREW, BH4x4	
A28	XB1-2301-205		AR	SCREW, BH3x12	
A29	XB1-2400-805		AR	SCREW, BH4x8	
A30	XB1-2400-806		AR	SCREW, BH4x8	
A31	XB1-1300-605		AR	SCREW, PH3x6	
A32	XB1-3300-606		AR	SCREW, FTH3x6	
A33	XB1-2301-609		AR	SCREW, MACHINE, M3x16	
A34	XB1-2401-005		AR	SCREW, MACHINE, M4x10	
A35	XB1-2300-407		AR	SCREW, BH3x4	
A36	XB1-2300-607		AR	SCREW, BH3x6	
A37	XB1-2401-007		AR	SCREW, MACHINE M4x10	
A38	XB1-3300-607		AR	SCREW, FTH3x6	
A39	XB1-7301-005		AR	SCREW, BH M3x10	
A40	XB1-2300-807		AR	SCREW, MACHINE M3x8	
A41	XB1-2301-007		AR	SCREW, MACHINE M3x10	
B 1	XB3-1200-605		AR	SCREW, BH2x6	
B 2	XB3-2300-805		AR	SCREW, BH3x8	
B 3	XB3-2400-805		AR	SCREW, BH4x8	
B 4	XB3-2301-005		AR	SCREW, BH3x10	
C 1	XB4-7200-809		AR	SCREW, TAP, BH2x8	
C 2	XB4-7300-809		AR	SCREW, TAP, BH3x8	
C 3	XB4-7300-605		AR	SCREW, FTH3x6	
C 4	XB4-6300-607		AR	SCREW, TAP3x6	

B. SCREWS & WASHERS LIST

FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
B C 5	XB4-7260-607		AR	SCREW, TAP, BINDING HEAD	
C 6	XB4-7300-807		AR	SCREW, TAP, BINDING HEAD	
C 7	XB4-7300-607		AR	SCREW, TAP TIGHT, BINDING HEAD	
C 8	XB4-7400-809		AR	SCREW, BH M4x8	
C 9	XB4-7401-007		AR	SCREW, BH M4x10	
D 1	XB6-1300-409		AR	SCREW, FP SET SH3x4	
D 2	XB6-2300-408		AR	SCREW, FP SET SH3x4	
D 3	XB6-2300-409		AR	SCREW, FP SET SH3x4	
D 4	XB6-2300-609		AR	SCREW, FP SET SH3x6	
D 5	XB6-2400-408		AR	SCREW, FP SET SH4x4	
D 6	XB6-6300-605		AR	SCREW, WITH WASHER PH3x6	
D 7	XB6-7300-405		AR	SCREW, TP, PH3x4	
D 8	XB6-7300-409		AR	SCREW, TP, PH3x4	
D 9	XB6-7300-605		AR	SCREW, TP, PH3x6	
D10	XB6-7300-609		AR	SCREW, TP, PH3x6	
D11	XB6-7400-609		AR	SCREW, TP, PH4x6	
D12	XB6-1300-408		AR	SCREW, FP SET SH3x4	
D13	XB6-7300-606		AR	SCREW, TP, PH3x6	
D14	XB6-2400-608		AR	SCREW, FP SET, SH4x6	
D15	XB6-7300-607		AR	SCREW, TP M3x6	
D16	XB6-7400-605		AR	SCREW, TP M4x6	
D17	XB6-7301-007		AR	SCREW, TP, PH M3x10	
E 1	XB7-2100-405		AR	NUT, HEX M4	
F 1	XD1-1103-133		AR	WASHER, SHIM M3.1	
F 2	XD1-2100-307		AR	WASHER, PLAIN M3	
F 3	XD1-4100-302		AR	WASHER, TOOTHED, INNER M3	
F 4	XD1-4100-402		AR	WASHER, TOOTHED, INNER M4	
F 5	XD1-1105-214		AR	WASHER, SHIM M5.2	
F 6	XD1-1104-125		AR	WASHER, SHIM M4.1	
F 7	XD1-1106-232		AR	WASHER, SHIM M6.2	
F 8	XD1-1106-231		AR	WASHER, SHIM M6.2	
F 9	XD1-4200-302		AR	WASHER, TOOTHED LOCK, M3	
F10	XD1-1100-502		AR	RETAINING RING (E-TYPE)	
G 1	XD2-1100-172		AR	WASHER, RETAINING 1.7MM	
G 2	XD2-1100-322		AR	WASHER, RETAINING 3.2MM	
G 3	XD2-1100-402		AR	WASHER, RETAINING 4.0MM	
G 4	XD2-1100-502		AR	WASHER, RETAINING 5.0MM	
G 5	XD2-1100-642		AR	WASHER, RETAINING 6.4MM	
G 6	XD2-1200-502		AR	WASHER, RETAINING 5.0MM	
G 7	XD2-1200-642		AR	WASHER, RETAINING 6.4MM	
G 8	XD2-2100-602		AR	RING, GRIP 6.00MM	
G 9	XD2-2300-302		AR	WASHER, RETAINING 30MM	
G10	XD2-2300-602		AR	WASHER, RETAINING 6.0MM	
G11	XD2-2300-802		AR	WASHER, RETAINING 8.0MM	
G12	XD2-2300-402		AR	WASHER, RETAINING 4.0MM	
G13	XD2-2300-502		AR	WASHER, RETAINING 5.0MM	
H 1	XD3-1160-162		AR	PIN, SPRING 1.6x16	
H 2	XD3-1200-102		AR	PIN, SPRING 2x10	
H 3	XD3-1300-142		AR	PIN, SPRING 3x14	
H 4	XD3-1300-162		AR	PIN, SPRING 3x16	

B. SCREWS & WASHERS LIST

FIGURE & KEY NO.	PART NO.	R A N K	Q T Y	DESCRIPTION	REMARKS
B H 5	XD3-2200-162		AR	PIN, PARALLEL 2x16	
H 6	XD3-2300-122		AR	PIN, PARALLEL 3x12	
H 7	XD3-2300-082		AR	PIN, PARALLEL 3x8	
H 8	XD3-2200-082		AR	PIN, PARALLEL	
I 1	XA9-0277-000		AR	SCREW WITH WASHER, M3x16	
I 2	XA9-0283-000		AR	SCREW, TP, PH3x6	
I 3	XA9-0290-000		AR	SCREW WITH WASHER M3x6	
I 4	XA9-0329-000		AR	SCREW WITH WASHER M3x10	
I 5	XA9-0233-000		AR	SCREW, M3x6	
I 6	XA9-0390-000		AR	SCREW, FTH3x4	
I 7	XA9-0340-000		AR	SCREW, BH2.3x8	
I 8	XA9-0259-000		AR	SCREW, TRUSS HEAD M3x8	
I 9	XA9-0342-000		AR	SCREW, STEPPED M3	
I 10	XA9-0459-000		AR	SCREW, TRUSS HEAD M3x16	
I 11	XA9-0462-000		AR	SCREW, TRUSS HEAD M3x10	
J1	XF9-0194-000		AR	COGGED BELT M50T	
J2	XF9-0196-000		AR	COGGED BELT M50T	
K1	XG3-6010-303		AR	BALL BEARING	
L1	XG9-0013-000		AR	BALL BEARING	
L2	XG9-0115-000		AR	PULLEY	
M1	X66-6615-000		AR	BAND, WIRING	
N1	XA1-1261-207		AR	M2.6x12	
O1	XB7-2200-305		AR	M3 NUT	
P1	XB2-3300-607		AR	SCREW WITH WASHER M3x6	
P2	XB2-3300-807		AR	SCREW WITH WASHER M3x8	

C. NUMERICAL INDEX

PART NUMBER	FIGURE & KEY No.	DESCRIPTION	PART NUMBER	FIGURE & KEY No.	DESCRIPTION
HA1-4642-000	103-1	SUB ROLLER, EJECT	HA1-6648-000	203-28	SHAFT, DOCUMENT PRESSURE
	203-1	SUB ROLLER, EJECT		103-9	RELEASE KNOB, ADF COVER
HA1-5663-000	201-2	SIDE COVER		203-9	RELEASE KNOB, ADF COVER
HA1-6552-000	101-1	REAR COVER	HA1-6649-000	103-10	RELEASE LEVER, ADF COVER
	201-1	REAR COVER		203-10	RELEASE LEVER, ADF COVER
HA1-6553-000	101-2	SIDE COVER	HA1-6668-000	106-1	LEVER, DELIVERY SENSOR
HA1-6554-000	103-2	ADF COVER		206-1	LEVER, DELIVERY SENSOR
	203-2	ADF COVER	HA1-6683-000	105-1	SWITCH LABEL, PAPER SIZE
HA1-6555-000	101-3	CONNECTOR COVER		205-1	SWITCH LABEL, PAPER SIZE
	201-3	CONNECTOR COVER	HA1-6686-000	105-2	ACTUATOR, FU COVER SENSOR
HA1-6559-000	101-4	STAY, HANDSET HOLDER		205-2	ACTUATOR, FU COVER SENSOR
	201-4	STAY, HANDSET HOLDER	HA1-6687-000	101-10	PROTECT COVER
HA1-6560-000	101-5	HANDSET REST (2)		201-10	PROTECT COVER
	201-5	HANDSET REST (2)	HA1-7351-000	103-11	SEPARATION ROLLER
HA1-6571-000	108-1	DOCUMENT GUIDE (LEFT)		203-11	SEPARATION ROLLER
	208-1	DOCUMENT GUIDE (LEFT)	HA1-7352-000	103-12	SUB SEPARATION ROLLER
HA1-6572-000	108-2	DOCUMENT GUIDE (RIGHT)		203-12	SUB SEPARATION ROLLER
	208-2	DOCUMENT GUIDE (RIGHT)	HA1-7504-000	110-4	FUNCTION SHEET (SPANISH)
HA1-6578-000	101-6	DOCUMENT TRAY	HA1-7509-000	101-29	LABEL, PROGRAM KEY
	201-6	DOCUMENT TRAY		201-29	LABEL, PROGRAM KEY
HA1-6579-000	101-7	EJECT PAPER TRAY	HA1-7613-000	101-10	PROTECT COVER
	201-7	EJECT PAPER TRAY		201-10	PROTECT COVER
HA1-6580-000	101-8	EXTENSION TRAY	HA1-7752-000	105-1	SWITCH LABEL, PAPER SIZE
	201-8	EXTENSION TRAY		205-1	SWITCH LABEL, PAPER SIZE
HA1-6581-000	101-28	ADDRESS LABEL	HA1-7795-000	106-11	COVER, HEATER HALOGEN
	201-28	ADDRESS LABEL		206-11	COVER, HEATER HALOGEN
HA1-6589-000	101-31	MODULAR COVER	HA1-8682-000	103-40	PLATE, RELEASE
	201-31	MODULAR COVER		203-39	PLATE, RELEASE
HA1-6591-000	101-9	FRONT COVER	HA2-0145-000	101-26	COVER, ENTRY SW
	201-9	FRONT COVER		201-26	COVER, ENTRY SW
HA1-6592-000	101-33	FRAME, OPERATION PANEL	HA2-0147-000	101-10	PROTECT COVER
	201-33	FRAME, OPERATION PANEL		201-10	PROTECT COVER
HA1-6597-000	108-3	STOPPER, DOCUMENT GUIDE	HA2-0532-000	101-32	MODULAR SHEET
	208-3	STOPPER, DOCUMENT GUIDE		201-32	MODULAR SHEET
HA1-6598-000	108-4	STICKER	HA2-0861-000	105-10	ROLLER, TRANSFER
	208-4	STICKER		205-10	ROLLER, TRANSFER
HA1-6602-000	103-24	DOCUMENT GUIDE, LOWER	HA2-0868-000	101-29	LABEL, MERCURY
	203-24	DOCUMENT GUIDE, LOWER		201-29	LABEL, MERCURY
HA1-6603-000	103-3	ROLLER, DOCUMENT FEED	HF1-0672-000	103-37	ADF FRAME UNIT
	203-3	ROLLER, DOCUMENT FEED		203-19	ADF FRAME UNIT
HA1-6604-000	103-4	ROLLER, DOCUMENT EJECT	HF1-0673-000	103-13	PRESSURE PLATE, DOCUMENT
	203-4	ROLLER, DOCUMENT EJECT		203-13	PRESSURE PLATE, DOCUMENT
HA1-6607-000	103-25	SHAFT, SUB SEPARATION ROLLER	HF1-0677-000	105-3	EJECT GUIDE ROLLER
	203-25	SHAFT, SUB SEPARATION ROLLER		205-3	EJECT GUIDE ROLLER
HA1-6612-000	103-5	BRACKET, DOCUMENT TRAY	HF1-0680-000	106-10	GUIDE, PAPER DELIVERY
	203-5	BRACKET, DOCUMENT TRAY		206-10	GUIDE, PAPER DELIVERY
HA1-6613-000	103-6	HOOK LEVER	HG1-2185-000	101-11	HANDSET UNIT
	203-6	HOOK LEVER	HG1-2342-000	103-	ADF UNIT
HA1-6614-000	103-26	SHAFT, HOOK LEVER	HG1-2345-000	103-38	DOCUMENT GUIDE UNIT (UPPER)
	203-26	SHAFT, HOOK LEVER		203-37	DOCUMENT GUIDE UNIT (UPPER)
HA1-6631-000	103-7	SUB SEPARATION GUIDE	HG1-2346-000	103-14	DOCUMENT EDGE SENSOR
	203-7	SUB SEPARATION GUIDE		203-14	DOCUMENT EDGE SENSOR
HA1-6632-000	103-27	SHAFT	HG1-2347-000	103-15	CONTACT SENSOR UNIT
	203-27	SHAFT		203-15	CONTACT SENSOR UNIT
HA1-6637-000	103-8	ACTUATOR, DS	HG1-2348-000	103-16	ADF DRIVE UNIT
	203-8	ACTUATOR, DS		203-16	ADF DRIVE UNIT
HA1-6644-000	103-28	SHAFT, DOCUMENT PRESSURE	HG1-2350-000	105-	PRINTER COVER UNIT

C. NUMERICAL INDEX

PART NUMBER	FIGURE & KEY No.	DESCRIPTION	PART NUMBER	FIGURE & KEY No.	DESCRIPTION
HG1-2351-000	205-	PRINTER COVER UNIT		201-14	SCNT 1 CARD UNIT
	105-26	RECORDING PAPER TRAY UNIT	HG1-2877-000	101-12	SCNT 2 CARD UNIT
	205-26	RECORDING PAPER TRAY UNIT	HG1-2878-000	101-12	SCNT 2 CARD UNIT
HG1-2380-000	108-	UPPER COVER UNIT	HG1-2889-000	102-1	POWER SW ASSEMBLY
HG1-2383-000	103-17	SEPARATION GUIDE		202-1	POWER SW ASSEMBLY
	203-17	SEPARATION GUIDE	HG1-3039-000	101-11	HANDSET UNIT
HG1-2386-000	105-4	EJECT ROLLER UNIT		201-11	HANDSET UNIT
	205-4	EJECT ROLLER UNIT	HG1-3071-000	101-13	NCU CARD UNIT
HG1-2387-000	105-5	FIXING UNIT		201-13	NCU CARD UNIT
	106-	FIXING ASSEMBLY	HG1-3193-000	101-14	SCNT 1 CARD UNIT
	205-5	FIXING UNIT		201-14	SCNT 1 CARD UNIT
	206-	FIXING ASSEMBLY	HG1-3199-000	101-12	SCNT 2 CARD UNIT
HG1-2390-000	101-12	SCNT 2 CARD UNIT	HG1-3204-000	101-12	SCNT 2 CARD UNIT
HG1-2392-000	101-12	SCNT 2 CARD UNIT	HG1-3226-000	208-	UPPER COVER UNIT
HG1-2393-000	102-1	POWER SW ASSEMBLY	HG1-3227-000	203-	ADF UNIT
	202-1	POWER SW ASSEMBLY	HG1-3228-000	203-	ADF UNIT
HG1-2394-000	101-13	NCU CARD UNIT	HG1-3229-000	201-12	SCNT 2 CARD UNIT
	201-13	NCU CARD UNIT	HG1-3269-000	101-12	SCNT 2 CARD UNIT
HG1-2396-000	101-13	NCU CARD UNIT	HG1-3270-000	201-12	SCNT 2 CARD UNIT
	201-13	NCU CARD UNIT	HG1-3271-000	201-12	SCNT 2 CARD UNIT
HG1-2397-000	101-13	NCU CARD UNIT	HG1-3272-000	201-12	SCNT 2 CARD UNIT
	201-13	NCU CARD UNIT	HG1-3273-000	201-12	SCNT 2 CARD UNIT
HG1-2398-000	101-13	NCU CARD UNIT	HG1-3285-000	203-15	CONTRACT SENSOR UNIT
HG1-2399-000	101-13	NCU CARD UNIT	HG1-3286-000	203-	ADF UNIT
	201-13	NCU CARD UNIT	HG1-3313-000	101-14	SCNT 1 CARD UNIT
HG1-2400-000	101-12	SCNT 2 CARD UNIT		201-14	SCNT 1 CARD UNIT
HG1-2402-000	103-18	DOCUMENT SENSOR	HG1-3314-000	201-12	SCNT 2 CARD UNIT
	203-18	DOCUMENT SENSOR	HG1-3483-000	103-16	ADF DRIVE UNIT
HG1-2453-000	102-2	DCNT CARD UNIT		203-16	ADF DRIVE UNIT
	202-2	DCNT CARD UNIT	HG1-3487-000	101-15	MODEM CARD UNIT
HG1-2517-000	107-	INTERNAL COVER ASSEMBLY		201-15	MODEM CARD UNIT
	207-	INTERNAL COVER ASSEMBLY	HG1-3492-000	101-12	SCNT 2 CARD UNIT
HG1-2518-000	107-1	DENSITY ADJUSTING CARD UNIT	HG1-3493-000	103-15	CONTACT SENSOR UNIT
	207-1	DENSITY ADJUSTING CARD UNIT	HG1-3494-000	103-	ADF UNIT
HG1-2519-000	101-14	SCNT 1 CARD UNIT	HG9-0495-000	103-39	HOOK LEVER ASS'Y
	201-14	SCNT 1 CARD UNIT		203-38	HOOK LEVER ASS'Y
HG1-2538-000	105-	PRINTER COVER UNIT	HH2-1277-000	101-24	MODULAR JACK
	205-	PRINTER COVER UNIT		201-24	MODULAR JACK
HG1-2539-000	105-5	FIXING UNIT	HH2-1702-000	101-16	COILED CORD
	106-	FIXING ASSEMBLY	HH2-1703-000	101-16	COILED CORD
	205-5	FIXING UNIT	HH2-1718-000	101-17	POWER SUPPLY CORD
	206-	FIXING ASSEMBLY		201-17	POWER SUPPLY CORD
HG1-2600-000	105-6	FIXING AC PCB ASSEMBLY	HH2-1719-000	101-18	CABLE ASSEMBLY 7 PIN
	205-6	FIXING AC PCB ASSEMBLY		201-18	CABLE ASSEMBLY 7 PIN
HG1-2657-000	101-11	HANDSET UNIT	HH2-1720-000	101-19	CABLE ASSEMBLY 15 PIN
HG1-2660-000	102-3	POWER SUPPLY UNIT (PRINTER)		201-19	CABLE ASSEMBLY 15 PIN
	202-3	POWER SUPPLY UNIT (PRINTER)	HH2-1721-000	101-24	MODULAR JACK
HG1-2661-000	102-3	POWER SUPPLY UNIT (PRINTER)	HH2-1722-000	101-25	MODULAR JACK
	202-3	POWER SUPPLY UNIT (PRINTER)		201-25	MODULAR JACK
HG1-2662-000	101-14	SCNT 1 CARD UNIT	HH2-1727-000	101-17	POWER SUPPLY CORD
	201-14	SCNT 1 CARD UNIT		201-17	POWER SUPPLY CORD
HG1-2737-000	103-15	CONTACT SENSOR UNIT	HH2-1728-000	101-17	POWER SUPPLY CORD
	203-15	CONTACT SENSOR UNIT		201-17	POWER SUPPLY CORD
HG1-2738-000	103-	ADF UNIT	HH2-1729-000	101-17	POWER SUPPLY CORD
HG1-2797-000	105-26	RECORDING PAPER TRAY UNIT	HH2-1730-000	101-17	POWER SUPPLY CORD
	205-26	RECORDING PAPER TRAY UNIT		201-17	POWER SUPPLY CORD
HG1-2876-000	101-14	SCNT 1 CARD UNIT	HH2-1770-000	101-20	CABLE ASSEMBLY 2 PIN

C. NUMERICAL INDEX

PART NUMBER	FIGURE & KEY No.	DESCRIPTION	PART NUMBER	FIGURE & KEY No.	DESCRIPTION
HH2-1774-000	201-20	CABLE ASSEMBLY 2 PIN	HH7-1724-000	210-	OPERATION PANEL UNIT
	104-19	CABLE ASSEMBLY, 3 PIN		201-22	OPERATION PANEL UNIT
HH2-1908-000	204-19	CABLE ASSEMBLY, 3 PIN		210-	OPERATION PANEL UNIT
	101-30	MODULAR JACK W/CORD	HS1-0223-000	103-29	GEAR, 15T
	201-30	MODULAR JACK W/CORD		203-29	GEAR, 15T
HH2-1995-000	101-16	COILED CORD	HS1-0225-000	103-30	GEAR, 68T
	201-16	COILED CORD		203-30	GEAR, 68T
HH3-5143-000	101-21	POWER SUPPLY UNIT	HS1-0226-000	103-31	GEAR, 68/80T
	201-21	POWER SUPPLY UNIT		203-31	GEAR, 68/80T
HH3-5144-000	101-21	POWER SUPPLY UNIT	HS1-0230-000	105-8	GEAR, 22T
	201-21	POWER SUPPLY UNIT		205-8	GEAR, 22T
HH3-5216-000	102-3	POWER SUPPLY UNIT	HS1-1017-000	103-32	BUSHING, 6MM
HH4-1984-000	111-IC 4	AM27C010-155DG (ROM H)		203-32	BUSHING, 6MM
HH4-1985-000	111-IC 5	AM27C010-155DG (ROM L)	HS1-1030-000	103-33	BUSHING, 4MM
HH4-1998-000	111-IC 4	MASK ROM LH530863 (ROM H)		203-33	BUSHING, 4MM
HH4-1999-000	111-IC 5	MASK ROM LH530864 (ROM L)	HS1-2033-000	103-34	SPRING, CLUTCH
HH4-2003-000	111-IC 4	uPD27C2001D-15 (ROM H)		203-34	SPRING, CLUTCH
HH4-2004-000	111-IC 5	uPD27C2001D-15 (ROM L)	HS1-2217-000	103-20	SPRING
HH4-2111-000	111-IC 4	uPD27C2001D-15 (ROM H)		203-20	SPRING
HH4-2112-000	111-IC 5	uPD27C2001D-15 (ROM L)	HS1-2218-000	103-21	SPRING
HH4-2123-000	111-IC 4	MASK ROM LH532H40 (ROM H)		203-21	SPRING
HH4-2124-000	111-IC 5	MASK ROM LH532H41 (ROM L)	HS1-2221-000	103-22	SPRING
HH4-2144-000	111-IC 4	EPROM HN27C201G (ROM H)		203-22	SPRING
HH4-2145-000	111-IC 5	EPROM HN27C201G (ROM L)	HS1-2222-000	103-35	SPRING
HH4-2148-000	211-IC 4	EPROM uPD27C2001D-20 (ROM H)		203-35	SPRING
HH4-2149-000	211-IC 5	EPROM uPD27C2001D-20 (ROM L)	HS1-3064-000	103-36	PULLY, 15T
HH4-2152-000	211-IC 4	EPROM uPD27C2001D-15 (ROM H)		203-36	PULLY, 15T
HH4-2153-000	211-IC 5	EPROM uPD27C2001D-15 (ROM L)	HY7-2511-000	110-1	COVER, ONE-TOUCH DIAL (1)
HH4-2154-000	212-IC 4	EPROM AM27C10-155DG (ROM H)		210-1	COVER, ONE-TOUCH DIAL (1)
HH4-2155-000	212-IC 3	EPROM AM27C10-155DG (ROM L)	HY7-2512-000	110-2	COVER, ONE-TOUCH DIAL (2)
HH4-2166-000	211-IC 4	MASK ROM L53083H (ROM H)	HY7-2513-000	110-3	DISPLAY PANEL
HH4-2167-000	211-IC 5	MASK ROM L53083J (ROM L)		210-2	DISPLAY PANEL
HH4-2199-000	112-IC 4	AM27C010-155DG (ROM H)	HY7-2515-000	110-4	FUNCTION SHEET (ENGLISH)
HH4-2200-000	112-IC 3	AM27C010-155DG (ROM L)		210-3	FUNCTION SHEET (ENGLISH)
HH4-2203-000	211-IC 4	MASK ROM MB832000A (ROM H)	HY7-2532-000	110-4	FUNCTION SHEET (GERMAN)
HH4-2204-000	211-IC 5	MASK ROM MB832000A (ROM L)		210-3	FUNCTION SHEET (GERMAN)
HH7-1212-000	102-4	LITHIUM BATTERY	RA1-7446-000	104-21	BLOCK, FIBER HOLDER
	202-4	LITHIUM BATTERY		204-21	BLOCK, FIBER HOLDER
HH7-1399-000	102-5	SPEAKER UNIT	RA1-7457-000	107-3	PRINT DENSITY SLIDER
	202-5	SPEAKER UNIT		207-3	PRINT DENSITY SLIDER
HH7-1548-000	108-5	DOCUMENT SIZE SENSOR	RA1-7499-000	102-6	PIVOT
HH7-1549-000	103-19	STAMP UNIT		202-6	PIVOT
HH7-1555-000	101-22	OPERATION PANEL UNIT	RA1-7502-000	104-1	COVER, CABLE
	110-	OPERATION PANEL UNIT		204-1	COVER, CABLE
HH7-1556-000	101-22	OPERATION PANEL UNIT	RA1-7506-000	104-2	COVER, CORD
	110-	OPERATION PANEL UNIT		204-2	COVER, CORD
HH7-1557-000	105-7	R.P. SIZE SWITCH	RA1-7562-000	105-9	LEVER, PAPER SENSOR
	205-7	R.P. SIZE SWITCH		205-9	LEVER, PAPER SENSOR
HH7-1576-000	104-20	TONER SENSOR	RA1-7592-000	106-2	PLATE, HOOK, RIGHT
	204-20	TONER SENSOR		206-2	PLATE, HOOK, RIGHT
HH7-1581-000	107-2	FAN, CF60-T219NID	RA1-7593-000	106-3	PLATE, HOOK, LEFT
	207-2	FAN, CF60-T219NID		206-3	PLATE, HOOK, LEFT
HH7-1686-000	101-22	OPERATION PANEL UNIT	RA1-7610-050	106-9	COVER, WIRE
	110-	OPERATION PANEL UNIT		206-9	COVER, WIRE
HH7-1707-000	201-22	OPERATION PANEL UNIT	RA1-7628-000	105-11	CAP, SPRING
	210-	OPERATION PANEL UNIT		205-11	CAP, SPRING
HH7-1711-000	201-22	OPERATION PANEL UNIT	RA1-7629-000	105-12	ARM, PAPER PICK-UP

C. NUMERICAL INDEX

PART NUMBER	FIGURE & KEY No.	DESCRIPTION	PART NUMBER	FIGURE & KEY No.	DESCRIPTION
RA1-7632-000	205-12	ARM, PAPER PICK-UP	RF1-2484-000	106-6	THERMO SWITCH (NOC)
	105-13	COVER, CORD, FRONT		206-6	THERMO SWITCH (NOC)
	205-13	COVER, CORD, FRONT	RG1-1596-000	109-12	CASSETTE FEEDER PCB ASSEMBLY
RA1-7637-000	105-14	HOLDER, CORD		209-12	CASSETTE FEEDER PCB ASSEMBLY
	205-14	HOLDER, CORD	RG1-1608-000	105-17	CABLE ASS'Y
RA1-7654-000	109-1	SHAFT, FEED ROLLER		205-17	CABLE ASS'Y
	209-1	SHAFT, FEED ROLLER	RG1-1609-000	104-18	REAR CABLE ASSEMBLY
RA1-7655-000	109-2	SHAFT, PICK-UP ROLLER		204-18	REAR CABLE ASSEMBLY
	209-2	SHAFT, PICK-UP ROLLER	RG1-1769-000	104-4	LASER ASSEMBLY
RA1-7656-000	109-14	RING, RATCHET, A		204-4	LASER ASSEMBLY
	209-14	RING, RATCHET, A	RG1-1771-030	104-5	SCANNER MOTOR ASSEMBLY
RA1-7657-000	109-15	SPRING, CLUTCH, A		204-5	SCANNER MOTOR ASSEMBLY
	209-15	SPRING, CLUTCH, A	RG1-1772-000	104-6	LENS ASSEMBLY
RA1-7658-000	109-16	RING, RATCHET, B		204-6	LENS ASSEMBLY
	209-16	RING, RATCHET, B	RG1-1773-040	104-7	SHUTTER ASSEMBLY
RA1-7659-000	109-17	SPRING, CLUTCH, B		204-7	SHUTTER ASSEMBLY
	209-17	SPRING, CLUTCH, B	RG1-1776-000	104-8	DRIVE ASSEMBLY
RA1-7660-000	109-18	RING		204-8	DRIVE ASSEMBLY
	209-18	RING	RG1-1777-000	104-9	DRUM DRIVE ASSEMBLY
RA1-7661-000	109-3	ARM, SENSING		204-9	DRUM DRIVE ASSEMBLY
	209-3	ARM, SENSING	RG1-1778-030	104-10	FEEDER ASSEMBLY
RA1-7662-000	109-19	MOUNT, SENSOR		204-10	FEEDER ASSEMBLY
	209-19	MOUNT, SENSOR	RG1-1780-000	104-11	H.V. CONTACT ASSEMBLY
RA1-7663-000	109-20	MOUNT, PCB		204-11	H.V. CONTACT ASSEMBLY
	209-20	MOUNT, PCB	RG1-1781-030	104-12	ROD ASSEMBLY
RA1-7664-000	109-4	SPRING, LEAF		204-12	ROD ASSEMBLY
	209-4	SPRING, LEAF	RG1-1792-000	105-18	PICK-UP ROLLER ASS'Y
RA1-7665-000	109-21	MOUNT, SOLENOID		205-18	PICK-UP ROLLER ASS'Y
	209-21	MOUNT, SOLENOID	RG1-1793-000	105-19	LEFT TR ROLLER MOUNT ASS'Y
RA1-7666-000	109-22	GUIDE, CASSETTE		205-19	LEFT TR ROLLER MOUNT ASS'Y
	209-22	GUIDE, CASSETTE	RG1-1794-000	105-20	RIGHT TR ROLLER MOUNT ASS'Y
RA1-7668-000	109-5	COVER, STOP		205-20	RIGHT TR ROLLER MOUNT ASS'Y
	209-5	COVER, STOP	RG1-1912-000	104-13	SEPARATION PAD UNIT
RA1-7674-000	109-6	ROLLER, PICK-UP		204-13	SEPARATION PAD UNIT
	209-6	ROLLER, PICK-UP	RG9-0681-000	105-21	TRANSFER GUIDE ASS'Y
RA1-7718-000	105-15	SPRING, TORSION		205-21	TRANSFER GUIDE ASS'Y
	205-15	SPRING, TORSION	RG9-0695-000	102-7	H.V. POWER SUPPLY CARD UNIT
RA1-7821-000	109-7	GUIDE, ROLLER		202-7	H.V. POWER SUPPLY CARD UNIT
	209-7	GUIDE, ROLLER	RH2-5025-000	109-37	SOLENOID, DC24V
RA1-7824-000	109-8	ROLLER, PICK-UP		209-37	SOLENOID, DC24V
	209-8	ROLLER, PICK-UP	RH2-5026-000	109-38	SOLENOID, DC24V
RF1-2385-000	104-3	CABLE, SENSOR		209-38	SOLENOID, DC24V
	204-3	CABLE, SENSOR	RH2-5104-000	104-14	OPTICAL FIBER CABLE
RF1-2400-000	105-16	PLATE, PAPER GUIDE		204-14	OPTICAL FIBER CABLE
	205-16	PLATE, PAPER GUIDE	RH7-1094-000	104-15	MOTOR, STEPPING, DC4W
RF1-2405-000	106-7	CABLE, THERMISTOR		204-15	MOTOR, STEPPING, DC4W
	206-7	CABLE, THERMISTOR	RH7-4032-000	106-4	HEATER, HALOGEN
RF1-2406-000	109-9	CABLE		206-4	HEATER, HALOGEN
	209-9	CABLE	RH7-4033-000	106-4	HEATER, HALOGEN
RF1-2418-000	109-10	COVER, FEEDER, RIGHT		206-4	HEATER, HALOGEN
	209-10	COVER, FEEDER, RIGHT	RS1-0284-000	104-16	GEAR, 30T
RF1-2419-000	109-11	COVER, FEEDER, LEFT		204-16	GEAR, 30T
	209-11	COVER, FEEDER, LEFT	RS1-0290-000	105-22	GEAR, 30T
RF1-2427-000	106-8	CABLE, AC CONNECTOR		205-22	GEAR, 30T
	206-8	CABLE, AC CONNECTOR	RS1-0292-000	105-23	GEAR, 27T
RF1-2483-000	106-5	THERMO SWITCH (CONT)		205-23	GEAR, 27T
	206-5	THERMO SWITCH (CONT)	RS1-0295-000	109-23	GEAR, 33T/19T

C. NUMERICAL INDEX

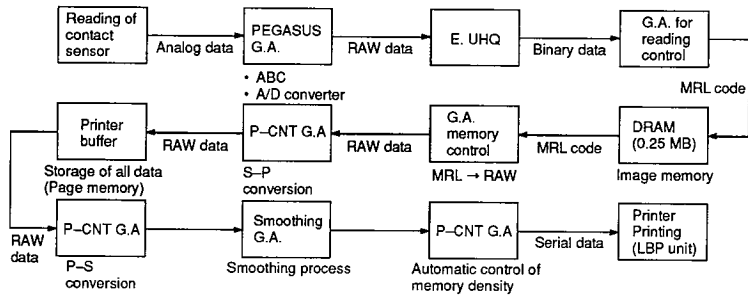
PART NUMBER	FIGURE & KEY No.	DESCRIPTION	PART NUMBER	FIGURE & KEY No.	DESCRIPTION
RS1-0296-000	209-23	GEAR, 33T/19T			
	109-24	GEAR, 17T			
RS1-0297-000	209-24	GEAR, 17T			
	109-25	GEAR, 37T			
RS1-0298-000	209-25	GEAR, 37T			
	109-26	GEAR, 39T			
RS1-0299-000	209-26	GEAR, 39T			
	109-27	GEAR, 34T			
RS1-1048-000	209-27	GEAR, 34T			
	104-17	BUSHING			
RS1-1053-000	204-17	BUSHING			
	109-28	BUSHING			
RS1-1054-000	209-28	BUSHING			
	109-29	BUSHING			
RS1-2244-000	209-29	BUSHING			
	105-24	SPRING, COMPRESSION			
RS1-2254-000	205-24	SPRING, COMPRESSION			
	109-31	SPRING, COMPRESSION			
RS1-6047-000	209-31	SPRING, COMPRESSION			
	109-32	COLLAR, RETAINING			
WC1-0125-000	209-32	COLLAR, RETAINING			
	102-1	POWER SW			
WG8-0291-000	202-1	POWER SW			
	107-4	PHOTO INTERRUPTER			
WG8-0323-000	109-13	PHOTO-INTERRUPTER			
	207-4	PHOTO INTERRUPTER			
WT2-5014-000	209-13	PHOTO-INTERRUPTER			
	105-25	PHOTO-INTERRUPTER			
XA9-0494-000	205-25	PHOTO-INTERRUPTER			
	101-23	CABLE TIE			
XB1-2300-603	201-23	CABLE TIE			
	109-30	SCREW, M3			
XB1-2301-607	209-30	SCREW, M3			
	109-36	SCREW, BH 3 x 6			
XD3-2160-082	209-36	SCREW, BH 3 x 6			
	101-27	SCREW, MACHINE M3-10			
XD3-2200-122	201-27	SCREW, MACHINE M3-10			
	109-33	PIN, PARALLEL 1.6 x 8			
XD3-2200-142	209-33	PIN, PARALLEL 1.6 x 8			
	109-34	PIN, PARALLEL 2 x 12			
XF9-0305-000	209-34	PIN, PARALLEL 2 x 12			
	109-35	PIN, PARALLEL 2 x 14			
	209-35	PIN, PARALLEL 2 x 14			
	103-23	COGGED BELT			
	203-23	COGGED BELT			

CHAPTER 7

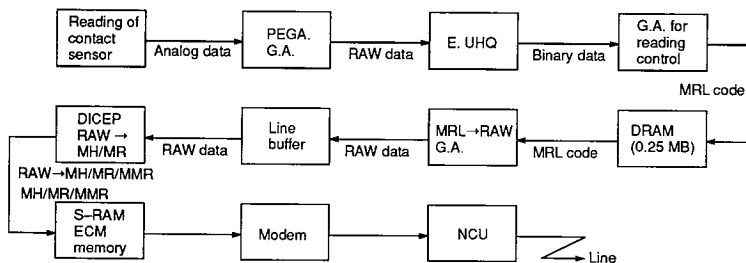
APPENDIX

Flow of Image Data in Each Mode

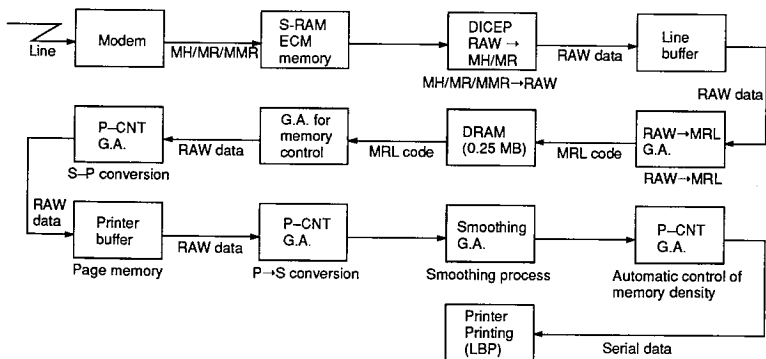
1. COPY



2. Tx



3. Rx



CHAPTER 8

NEW FUNCTIONS

1 ECM

ECM is an error correction mode conforming to CCITT recommendations which makes possible image data transceiving free of line skips.

1.1 Outline

In the ECM format, image data is divided up into block units, which are then distributed among any number of frames and sent to the receiver. At the receiver side, each time one frame is received, it is inspected for errors, and the process is repeated until one block is received. Upon reception of one block, if there is an error frame, the transmitting side is requested to send the error frame once again. Upon receipt of this request, the transmitting unit retransmits only the frame where error was generated, and after proper transceiving of image data has been confirmed, it starts sending the next data block.

1.2 Specifications

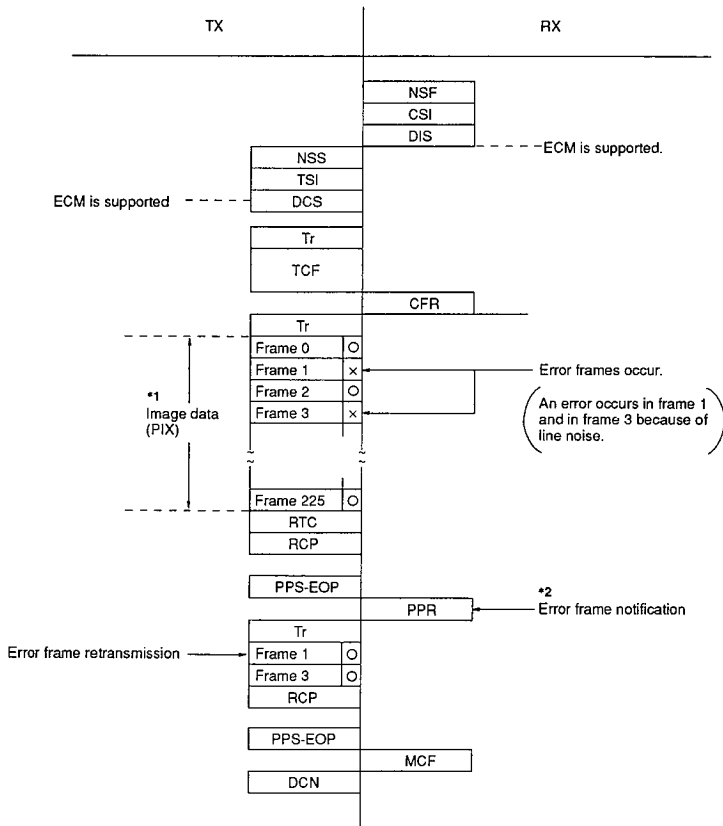
1. Communication format: Half duplex
2. Image signal composition: HDLC composition
 - MH/MR coded image signals are divided into prescribed unit frames and housed in HDLC data field.
3. Frame size: 256byte/64byte (Selection possible at SSSW)
4. Block size: 256 frames
5. Error detection format: CRC check and check of frame number continuity.
6. Binary signals for ECM

Abbreviation	Function	Signal format
CTC	Continue to correct	X100 1000
CTR	Response for continue to correct	X010 0011
EOR	End of retransmission	X111 0011
ERR	Response for end of retransmission	X011 1000
PPR	Partial page request	X011 1101
PPS	Partial page signal	X111 1101
RNR	Receive not ready	X011 0111
RR	Receive ready	X111 0110

7. Other
 - (1) Since this format complies with CCITT recommendation FAX-L770, if it is mounted in your machine, communication with machines by other companies is possible.
 - (2) Transmission speeds can vary greatly depending on line conditions. (Transmission time expands with greater occurrence of errors.)
 - (3) **In ECM communication, line conditions can cause image errors and communication errors.**

1.3 Control of Protocol Outline

1. The transmitter and receiver declare that they support ECM in the initial protocol.
2. If errors occur in the transmitted image data, the receiver uses a PPR request to make the sender retransmit the frames in error.
3. The sender retransmits only the frames in error.



*1. It is assumed that image data is transmitted within one block (64K bytes)

*2. The error frame is declared with PPR binary data. (Data is stored in PPR FIF.)

Frame number → 0 1 2 3 225

0	1	0	1		0
---	---	---	---	-------	---

0: No error
1: Error

ENHANCED UHQ IMAGE PROCESSING SYSTEM (READING CONTROL)

The new image processing system (Enhanced UHQ) combines the conventional image processing system (UHQ) and an automatic character/photo differentiation function (AA or auto adjuster mode). The conventional image processing system (UHQ) and the automatic character/photo differentiation function (AA mode) are outlined below.

2.1 Image Processing System (UHQ)

When image processing is done with the new readout method, high-quality images can be reproduced not only with letter documents but also with documents having letters and photos mixed. In this new method, analog image signals read by CCD are converted to black and white binary data. Main image processing of this new method incorporates new edge emphasis and error diffusion method. What follows is an explanation of image data flow in this new processor, including explanations of these two methods.

Image data flow with new readout method

(See block diagram of reading system in the new method)

Image signals (analog signals) ready by CCD are sent to the SCNT card via Amp. Image signals sent to the SCNT card undergo ABC and shading correction (electrical correction) at the analog circuit, then are converted to digital signals by the A/D converter. The converted image data is sent to the new edge emphasis processing component. Normally, the resolution of signals read by CCD is low. If image data of low resolution is converted as such to binary, it can cause image scratches or distortions. At the new edge emphasis component, a high-pass emphasis filter is used to compare the luminance level of the viewing pixel (pixel about to be made binary) with that of reference pixels (pixels surrounding the viewing pixel), and results are computed by software. A viewing pixel lighter than surrounding reference pixels is converted into a pixel lighter than the original viewing pixel, and a viewing pixel darker than surrounding reference pixels is converted to a pixel darker than the original viewing pixel. By using the output as image data, the edges of the image are emphasized, resulting in an improvement in both horizontal and vertical scanning resolutions.

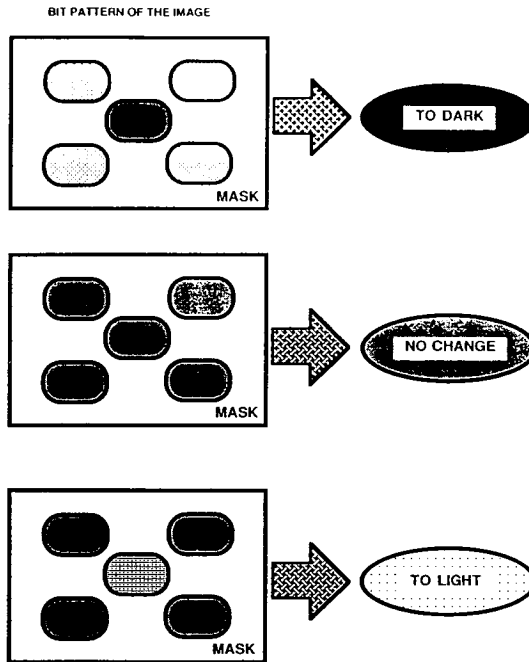


Fig. 8-2-1

The images of improved resolutions are then sent to the image data reduction component. Here, document (transmitted document and copied document) size is processed according to the size of the set recording paper as equivalent, A3 to B4, B4 to A4, or A3 to A4. Processing takes place by thinning out of multivalued data. The Half-tone key on the operating panel is used to select pure binary (letter document) or half-tone (letter & photo mixed document). In this case of pure binary (letter document) selection, output data from the image reduction component is converted into binary values (black or white) by the slice level, then output 1 bit at a time from the new image processor.

In the case of half-tone selection, output data of the image reduction component undergoes density conversion by the brightness → density conversion table, and the converted density data is sent to the (error scattering) component. Here the (error diffusion method) is used to convert density data into binary (black and white), and this data is then output 1 bit at a time from the new image processor (gate array).

The per-bit serial data thus made binary undergoes serial to parallel conversion by a separate gate array, then is loaded into system RAM via DMA transmission.

Error diffusion method

In the error diffusion method, the error (density deviation) between the output image and the original image is incorporated into a number of surrounding pixels. Thus it is unique in diffusing the error.

By scattering to peripheral pixels the errors generated during binary processing, the image as a whole looks like the original image, so that a smooth image can be reproduced.

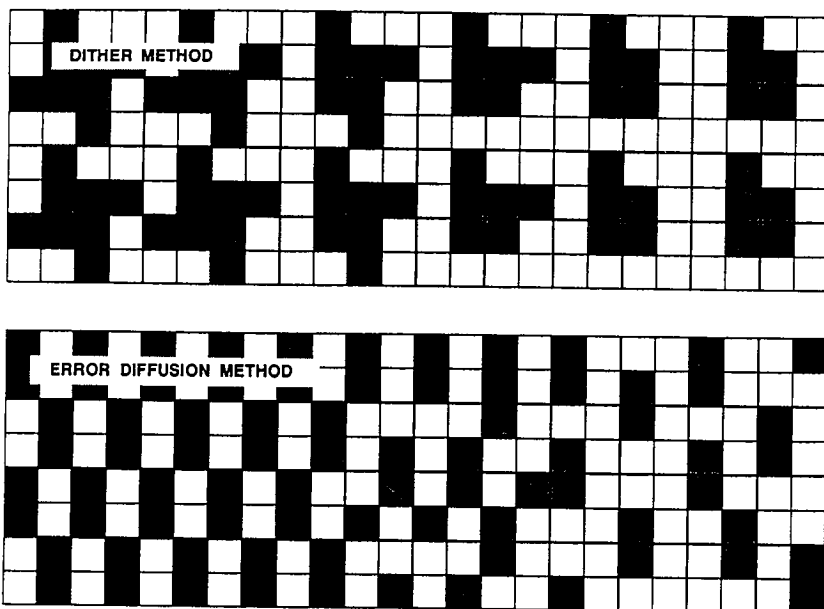
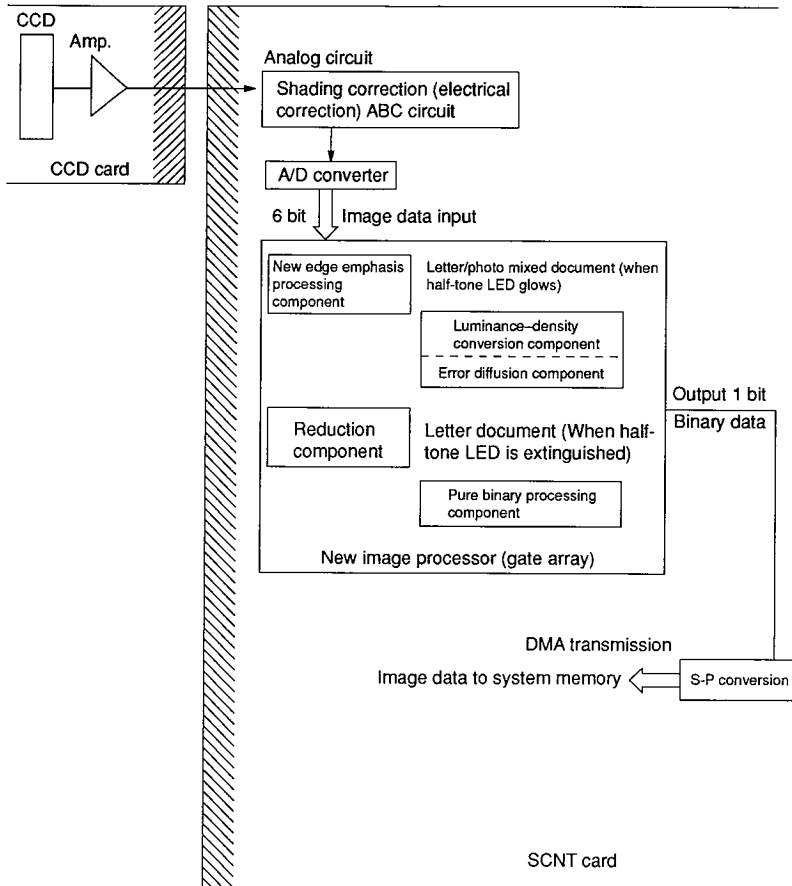


Fig. 8-22 ERROR DIFFUSION METHOD

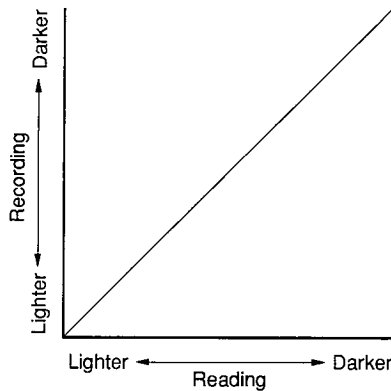
Since there is no determined pattern of image processing such as (dither matrix) in this method, there is no restriction on the number of gradations and slice level processing occurs depending on the pixel value of each individual pixel. Consequently, by using the error diffusion method for image processing, high-quality images close to the original images can be processed, which are smoother than those from dither matrix processing, even with documents which have letters and photos mixed.



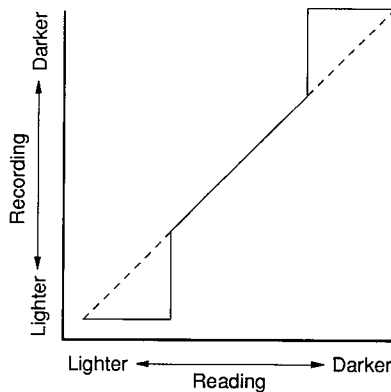
Block diagram of Readout System by New Readout Format

2.2 AA (Auto Adjuster) Mode

1. In an ordinary 64-gradation format, the density of the reading and that of the recording are in direct proportion to each other, as shown below. (UHQ halftone)



2. In the AA mode, dark colors and light colors are processed as black and white colors respectively to shorten the transmission time. In the UHQ halftone format, intermediate colors (between black and white) are reproduced as are. Therefore, the density of the reading and that of the recording have the following relation:



3

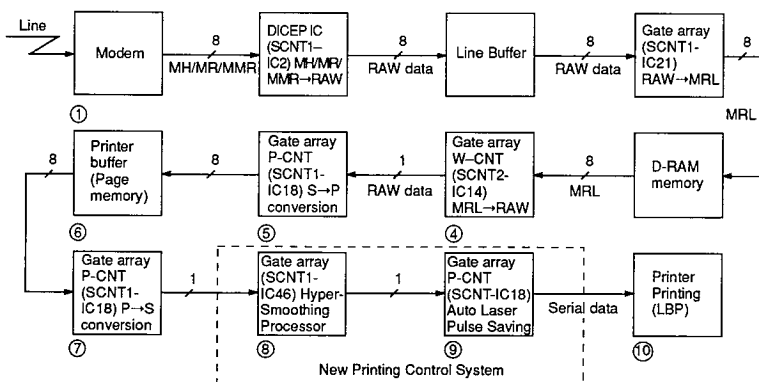
IMAGE PROCESSOR (NEW PRINTING CONTROL SYSTEM)

The new Printing Control System means:

- Hyper-Smoothing function
- Auto Laser Pulse Saving function

These two functions have been developed to improve the recording image quality on the receiving side.

Following is an explanation and the flow of the received image data:



- ① The received image data is demodulated by a modem and transmitted to DICEP IC of the SCNT 1 (SCNT 1-IC 2).
- ② The image data is converted from MH/MR/MMR codes to RAW data by DICEP IC and stored once in the line buffer.
- ③ In the case of memory reception, the image data is converted from RAW data to MRL codes (Intermediate code) by the gate array (SCNT 1-IC21) and stored in the D-RAM which is an image memory.
- ④ The image data is converted from MRL codes to RAW data by the gate array W-CNT (SCNT 2-IC14)
- ⑤ The image data is converted from serial RAW data to parallel RAW data by the gate array P-CNT (SCNT 2-IC18).
- ⑥ One page of the image data can be stored in the page memory.
- ⑦ As the image transmitted from the page memory is parallel data, it is converted to serial data by the gate array P-CNT (SCNT 1-IC18).
- ⑧ The image data is converted from standard mode to super fine mode or from fine mode to super fine mode by the gate array (SCNT 1-IC46) to obtain higher resolution. (Hyper-Smoothing processing)
- ⑨ The density of the image data is adjusted automatically by the gate array P-CNT (SCNT 1-IC 18).
- ⑩ The image data is printed out by LBP.