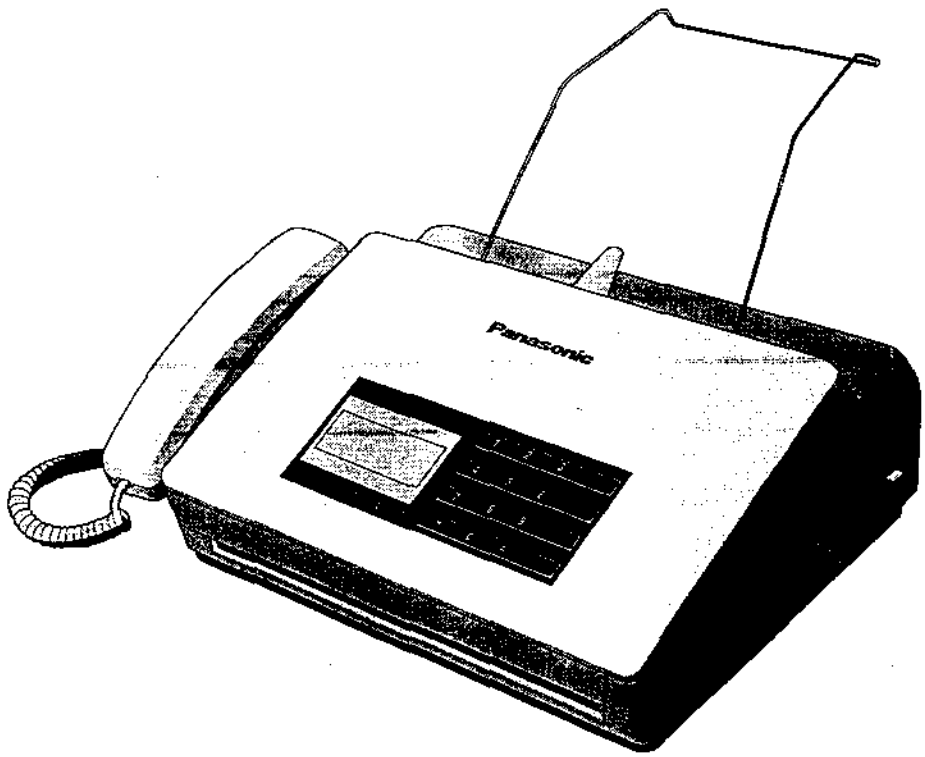
ORDER NO. MGCS940801C0
(Standard Version)

Service Manual

Facsimile

UF-V40
UF-V60



Panasonic

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WARNING : This product should only be serviced by a trained servicer who has been authorized to service the equipment because of the complexity of the equipment.

Matsushita Electric Corporation of America disclaims any responsibility for any damage or Injury which may result to any person or to any product which is serviced in reliance of this manual without proper training.

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Chapter 1
General Description

1.1 Overview

This section covers the features and specifications of Panasonic facsimile UF-V40 and UF-V60. These facsimiles can transmit and receive on the Public Switched Telephone Network (PSTN) in the modes conforming to ITU-T (CCITT) Group 3 recommendation.

The UF-V60 is equipped with a built in TAM (Telephone Answering Machine). Recorded messages are stored in a flash memory, which does not requires battery backup when a power failure occurs.

1.2 General Features and Functions

(1) Automatic Document Feeder
The Automatic Document Feeder feeds originals from the Document Tray automatically starting with the bottom page.
Capacity : 10 documents of average thickness and of the same size

(2) Automatic Dialing Function
Up to 20 stations can be easily dialed using the One-Touch or Abbreviated dialing function. There are 5 One-Touch keys and 15 Abbreviated dialing stations are provided. Other stations can be dialed directly from the keypad by entering the full number.

(3) Directory Search
You can easily find the station you wish to call by pressing the ABBR/SEARCH key repeatedly until the desired station name shows on the LCD.

(4) Error Correction Mode (ECM) (UF-V60 only)
Error Correction Mode, which conforms to ITU-T (CCITT) Recommendations, allows error-free data transmission. ECM with MMR Coding also conforms to ITU-T (CCITT) Recommendations.

(5) Speedy Transmission (UF-V60 only)
The use of MMR Coding with ECM, which conforms to ITU-T (CCITT) Recommendations, achieves faster transmissions. Short protocol reduces hand-shake time by shortening Phase B.

(6) Memory Transmission (UF-V60 only)
The contents of a document can be stored into the document memory first, then transmitted from memory. Operator attendance until transmission ends is not necessary. In case of the line failure, the machine will re-transmit only the remaining pages.

(7) Multi-Station Transmission (UF-V60 only)
Using the document memory, a document can be transmitted to multiple destinations (up to 23 stations).

(8) Deferred Transmission
The built-in 24-hour timer allows the operator to set deferred transmission. Using the document memory (UF-V60 only), a document can be transmitted to multiple destinations (up to 20 stations).

(9) Personal Mailbox (UF-V60 only)
Received document can be stored in the memory and not exposed to anybody. The stored document can be printed later at the machine or retrieved from a remote station.

(10) Substitute Reception (UF-V60 only)
The contents of the document will be received into the memory if the recording paper runs out or a recording paper jam occurs during reception. The stored document can be printed after replacing the recording paper or correcting a paper jam.

(11) Selective Reception
To prevent unwanted faxes from being received, the machine compares the ID number of the transmitting machine with the telephone number stored in the built-in automatic telephone dialer.

Note :The last 4 digits of both the received ID and telephone number stored in the built-in dialer are compared.

(12) Polling

You can poll a document from a remote unattended station. To prevent unauthorized polling, a 4-digit password will be checked at the remote station.

(13) Halftone

For transmission, this function ensures the high quality reproduction of gray shaded or photographic documents. This machine uses 64 levels of Error Diffusion to create the halftone.

(14) Copy

The Copy function allows the machine to be used as a copier. Using the document memory (UF-V60 only), up to 99 copies can be made of a single original.

(15) Help Function

When operation guidance is needed, detailed operation instructions will be printed out by pressing the HELP key.

(16) Journal Report

The Journal Report provides transaction information, such as number of pages transmitted or received with the result, communication started date and time, station identification, etc. This Journal Report is automatically printed every 10 transactions, or it can be printed manually at anytime.

(17) Communication Journal

Communication Journal is a result report of a communication which can be printed automatically after communication is completed. Printout condition for each communication can be selected by the setting in Fax Parameter 27,

OFF : Do not print
ALL : Print after each transmission.
INC : Print only when the transmission has failed.

(18) Verification Stamp

The Verification Stamp is automatically stamped on the document when the document is successfully transmitted. The ⊗ mark appears at the bottom of each page.

(19) Distinctive Ring Detector (Depending on the country)

This feature supports an optional telephone service, "Distinctive Ring Service" (see note.), provided by your local telephone company. It allows up to 2 different telephone numbers to be assigned on a single telephone line, each with a distinctive ring pattern. By setting Fax Parameter 12 to the appropriate ring pattern associated with the telephone number assigned to the machine, it can differentiate and answer the incoming call on the fax telephone number only. All other telephone number will not be answered. Check with the local telephone company on the availability of this optional service in your area.

Note: This feature can be used only for the country where local telephone company is providing this service. Please contact your local telephone company about availability of this service.

(20) Line Holding

You can temporary hold the line by pressing the HOLD key and a music will start playing. The line will be connected again by picking up the handset attached to the machine or an external telephone set.

(21) Silent Reception Mode

The machine can receive a call without ringing while FAX/TEL Auto Switch Mode is selected and Timer Switching Mode is set to Silent-Reception Mode.

(22) Remote Reception

Fax reception can be activated by entering the Remote Reception Command through an external telephone set.

(23) IN/OUT Switch

IN (Attended reception) and OUT (Unattended reception) mode can be easily changed by simply pressing the OUT button on the panel. When IN or OUT mode is selected, one of the reception mode is selected according to the setting in the Fax Parameter.

IN Mode : TEL (Fax manual reception)
: FAX/TEL Auto Switch

OUT Mode : FAX (Fax automatic reception)
: FAX/External TAM (UF-V40 only)
: FAX/Built-in TAM (UF-V60 only)
: FAX/TEL Auto Switch

(24) Fax/Tel Auto Switch

This feature allows you to share a single telephone line for both fax and voice call so that you can save on the cost of installing a second telephone line. When the machine answers an incoming call, it will automatically distinguish whether it is a fax or voice call. If it is a fax call, the machine will receive the document. If it is a voice call, the machine will ring through the built in speaker for operator attention.

Note : OGM1 and OGM2 are to be recorded by user.

(25) External TAM Interface (UF-V40 only)

An external TAM (Telephone Answering Machine) can be connected to this machine. If the machine is called, the machine determines if the call requires the use of the Fax mode or TAM mode automatically by checking a signal from the calling side. If CNG (Calling Tone, ITU-T T.30) signal is detected, the machine will switch the telephone line to the fax side and start fax communication. If CNG signal is not detected, the machine will stay in the TAM mode.

(26) Built-in TAM (UF-V60 only)

The UF-V60 are equipped with a built in TAM. Flash memory is adopted to record messages so even when a power failure has occurred, the messages will not be lost.

1) OGM (Outgoing Message) recording
An OGM can be recorded for Max. 30 seconds.

Note : The TAM OGMs are set for total of 30 seconds. The OGM1 and OGM2 in the FAX/TEL Automatic Switching mode are set for 4 seconds and 8 seconds respectively.

2) Message Recording
It is possible to record up to 99 ICMs (Incoming Messages) or a maximum of 9 minutes in total. You can select recording time of 30 seconds, 60 seconds, or 90 seconds for the ICMs by Fax Parameter.

3) Automatic Voice Message Transfer
You can program the machine to transfer a ICM (Incoming Message) to the specified station. After a new message is recorded, the machine will automatically call the preprogrammed telephone number. You can listen to the message at the called telephone set by entering the password using the keypad on the telephone.

Note : The code must be entered using DTMF (Dual Tone Multi-Frequency).

4) Toll Saver
It is possible to know if there is any ICM (Incoming Message) recorded in the memory when calling from outside for remote message retrieval, simply by listening to the number of rings before the machine answers. If there is message in the memory, the machine answers after the second ring. If not, the machine answers after the fifth ring. Therefore, if you hear the third ring you can hang up to save the toll and time.

5) Time Stamp
ICM recorded time (Day/Hour/Minute) will be displayed on the LCD when it is playing back.

6) Memo / 2-Way Recording
Two types of memo recording are available and you can play back the memo from the control panel or by the remote-controlled features. Recording time for each memo will vary depending on the memory available. Each memo is counted as an ICM.
Memo Message : A message can be recorded from the built-in microphone.
2-Way Recording Memo : Conversation over the telephone can be recorded for later reference.

(27) Remote Controlled Features (UF-V60 only)
You can activate the following features from a remote location by entering the Remote Control Password and Remote Control Code through a touch tone telephone.

Note : If the machine is set to Manual Reception Mode, it will not answer the call.

1) IN/OUT Setting
IN and OUT mode can be selected.

2) ICM Playback/Skip/Erase
Playback : Play back ICM from the first one.
Skip : Skip to the next ICM and starts playing.
: Skip to the last ICM and starts playing.
Erase : Erase all ICMs recorded.

3) Document Retrieval from Memory
You can retrieve a document received in the memory by polling. If a polling password is set at the remote station you also have to enter the proper password in order to poll the document.

4) Personal Mailbox Setting
You can set the machine to receive a document in the memory for retrieval later.

5) Fax Bulletin Retrieval/Erase/Storage
Retrieval : Retrieve a document received or stored in the Fax Bulletin from the remote station.
Erase : Erase the document received or stored in the Fax Bulletin from the remote station.
Storage : Send a document into the Fax Bulletin Board from a remote station.

6) Message Transfer and/or Mailbox Reception Notice Setting
Message Transfer : Set the machine to transfer an ICM to the specified station.
: Cancel the Message Transfer setting.
Mailbox Reception Notice : Set the machine to send a notice to the specified station to inform that the machine has received a document in the memory.
: Cancel the Mailbox Reception Notice setting.

7) Message Transfer and/or Mailbox Reception Notice Destination Change
Message Transfer : Change the specified station telephone number.
Mailbox Reception Notice : Change the specified station telephone number.

8) OGM Recording
You can record a new OGM from the remote telephone set.

(28) Fax Bulletin Board (UF-V60 only)
You can store a document into the Fax Bulletin Board in the machine's memory and let others uses the Polling or Remote Controlled feature to retrieve the document. The document in the Fax Bulletin Board will be kept until you erase them.

(29) Mailbox Reception Notice (UF-V60 only)
The machine can inform a specified station that the machine has received a document in the memory. After the machine receiving the document in the memory, the machine will call the telephone number programmed in advance and send a notice to that station. You can retrieve the document from the remote station by the Remote Controlled Feature (Document Retrieval from Memory)

1.3 UF-V60, UF-V40 and UF-128M Specification Comparison Table

Refer to the comparison table below for the different points between UF-V60, UF-V40 and UF-128M specifications.

Specification Comparison

Items	UF-V60	UF-V40	UF-128M
1. MAIN SPECIFICATION			
Compatibility	G3	←	←
Modem Speed (bps)	9600/7200/4800/2400 with automatic fallback	←	←
Coding Scheme	MH/MR/MMR/MWS	MH/MR/MWS	MH/MR/MWS
ECM	Yes (Conform to ITU-T)	No	Yes
White Line Skip	Yes	←	←
Short Protocol	Phase B	←	Phase B and D
Transmission Speed	Approx. 10 sec using ITU-T(CCITT) No.1 chart	Approx. 15 sec	Approx. 15 sec
2. SCANNER MECHANISM			
ADF Capacity	10 sheets	←	←
Document Size (Max.)	257 × 1000mm	←	←
Document Size (Min.)	148 × 105mm	←	148 × 73mm
Effective Document Width	208mm	←	←
Scanning Device	CCD	←	←
Scanning Resolution (pels/mm / lines/mm)	Standard : 8 × 3.85 Fine : 8 × 7.7 Super Fine : 8 × 15.4	←	← (Super Fine is not conforms to ITU-T)
Scanning Speed (A4 sizedocument) (Note 1)	12 seconds	N/A	12 seconds
Document Stack	Face down	←	←
3. PRINTER MECHANISM			
Recording Method	Thermal Print Head	←	←
Recording Paper Width	A4 / B4 (Note 2)	←	←
Recording Paper Length	30 m	←	50m
Effecting Printing Width	208mm / 252mm (Note 2)	←	←
Automatic Paper Cutter	Yes	←	←
Paper Stack	Face up	←	←

Note 1 : It is memory storing speed.

Note 2 : B4 size is used only for Taiwan and China.

Specification Comparison

Items	UF-V60	UF-V40	UF-128M
4. MEMORY			
Voice / Document Memory	Yes 9 min. or 50 pages	No	Yes (Document)
5. COPY QUALITY			
Half Tone	64 levels (Error Diffusion)	←	16 levels (Dithering)
Super Fine (8 x 15.4 lines/mm)	Yes (Conform to ITU-T)	←	← (Panafax only)
Original Contrast Selection	3 levels	←	2 levels
6. DIALING / TELEPHONE FEATURE			
One-touch Auto Dialing	5 stations	←	16 stations
ABBR.Auto Dialing	15 stations	←	54 stations
Auto Dialing Capacity	20 stations	←	70 stations
Telephone Number Capacity	Max. 36 digits	←	←
Station Name Capacity	Max. 15 characters	←	←
Directory Search Dialing	Sequential alpha-numeric sorted dialing search	←	No
Full Number Dialing (Buffered Dialing)	3 stations	1 station	3 stations
Direct Dialing (Monitor Dialing)	3 stations	1 station	←
Automatic Redialing	5 times with 3 minute interval	←	←
Manual Redialing	Yes	←	←
Chain Dialing	Monitor dialing Off Hook dialing	←	One-Touch / ABBR dialing Direct dialing
Line Monitor Speaker	Yes	←	←
Hold Key	Yes	←	No
Dialing Method	10 PPS or DTMF Slide Switch	←	10 PPS or DTMF Fax Parameter
Pulse-to Tone change	* key	←	←
Flash Key	Yes	←	No
Telephone Handset	Yes	←	←

Specification Comparison

Items	UF-V60	UF-V40	UF-128M
7. RECEIVE CONTROL			
Fax/Tel Autoswitch	Yes	←	←
Fax/External TAM Autoswitch	No	Yes	Yes
Fax/Built-In TAM Autoswitch	Yes	No	No
Voice Answer for Fax/Tel Autoswitch	*Yes*	←	*No*
Silent Reception	Fax/TEL mode Fax/TAM mode	Fax/TEL mode	No
Ring Counter	1 to 9	←	1 to 8
External Telephone *Connection*	Yes	←	←
External TAM Interface	No	Yes	Yes
Remote Reception	Yes	←	No
Friendly Reception (CNG detection during conversation over telephone)	Yes	←	No
Distinctive Ring Detection	Yes	←	←
Reception Mode Switching Timer	Yes	←	No
Off-Hook Detection of telephone connected parallel	Yes (Note)	← (Note)	No
8. TRANSMISSION FEATURES			
Memory Transmission	Max. 50 pages (using ITU-T No.1 chart)	No	Max. 7 pages
Multi-Station Transmission	Max. 23 stations	No	Max. 73 stations
Deferred Transmission	1 timer	←	No
Mailbox Reception Notice	Yes	No	No
9. RECEPTION FEATURES			
Personal Mailbox	Yes	No	No
Substitute Reception	Yes	No	Yes
10. POLLING FEATURES			
Polling	Yes	←	←
Fax Bulletin Board	Yes	No	No

Note : Depending on country.

Specification Comparison

Items	UF-V60	UF-V40	UF-128M
11. CONVENIENCE			
Panel Display	20 characters × 1 line	←	16 characters × 1 line
Help Function	Yes	←	No
Voice Contact	Yes	←	←
12. COPY FUNCTIONS			
Single Copy	Yes	←	←
Multiple Copy	Max. 99 copies	No	Yes
13. CERTAINTY			
Verification Stamp	Face side	←	←
Header / Total Page Print	Yes	←	←
Transmission Journal	Yes	←	←
Comm. Journal	Yes	←	←
14. LIST PRINTOUTS			
Speed Dial List	Yes	←	←
Fax Parameter List	Yes	←	←
Help Print	Yes	←	No
15. IDENTIFICATIONS			
Logo	Max. 25 characters	←	←
Character ID	First 16 characters of the Logo	←	No
Numeric ID	Max. 20 digits	←	←
16. SPECIAL COMMUNICATION FEATURE			
Remote Diagnostic Function	Yes	←	←
Daylight Savings Time Adjustment	Yes (Note)	← (Note)	No
Selective Reception	Yes	←	No

Note : Depending on country

Specification Comparison

Items	UF-V60	UF-V40	UF-128M
17 TAM FEATURE			
Built-In TAM	Max. 9 minutes for ICM	No	No
ICM Recording	Max. 99 messages	No	No
OGM	Max. 30 seconds	←	No
Message Transfer	Yes	No	No
Toll Saver	Yes	No	No
Time Stamp	Yes	No	No
Memo / 2 Way Recording	Yes	No	No
18. REMOTE CONTROLLED FEATURE			
In/Out Switching	Yes	No	No
ICM Playback/Skip/Erase	Yes	No	No
Personal Mailbox Retrieval	Yes	No	No
Personal Mailbox Setting	Yes	No	No
Fax Bulletin Board Retrieval/Erase/Store	Yes	No	No
Message Transfer Setting	Yes	No	No
Mailbox Reception Notice Setting	Yes	No	No
Changing Destination No. for Message Transfer	Yes	No	No
Changing Destination No. for Mailbox Reception Notice	Yes	No	No
OGM Recording	Yes	No	No
19. OTHERS			
Remote Diagnostic	Yes	←	←
Memory Backup	2 weeks	←	7 days
20. CONSTRUCTION			
Dimensions (W × D × H)	401 × 269 × 126 mm	←	340 × 303 × 130 mm
Weight	4.5 Kg	←	4.6 Kg

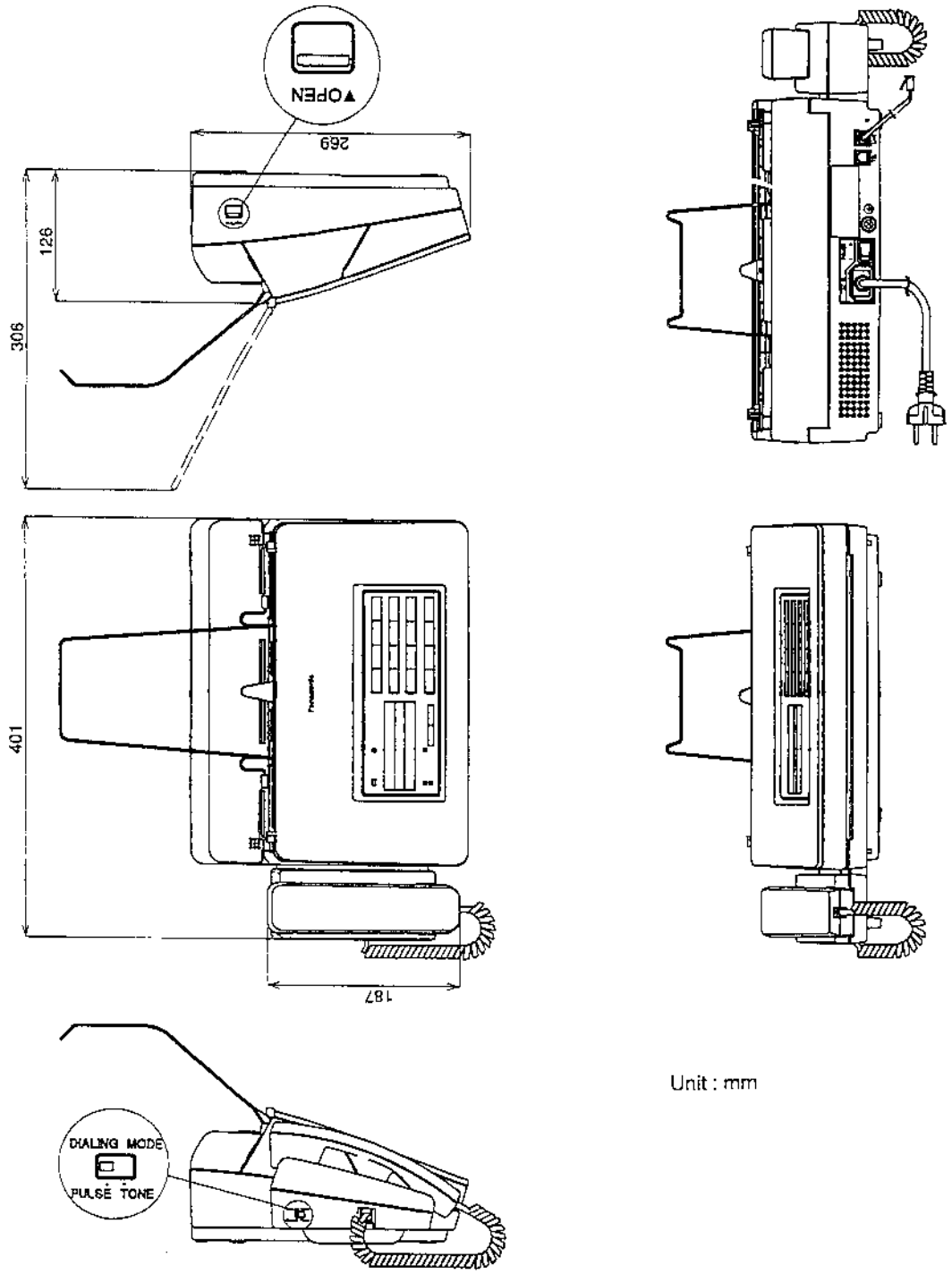
Specification Comparison

Items	UF-V60	UF-V40	UF-128M
21. POWER SUPPLY			
Power Supply	AC 180 - 264 V (AC 115 ± 17 V) 50/60 Hz, Single phase	←	←
Power Consumption	Standby : Approx. 7W Transmission : Approx. 20W Reception : Approx. 25W Copy (Max.) : Approx. 120W	←	Approx. 8W Approx. 18W Approx. 30W Approx. 88W
22. ENVIRONMENT			
Temperature	Operation : 6 to 35°C Storage : -10 to 55°C Transport : -30 to 60°C (Max. 72H)	←	Operation : 5 to 35°C
Relative Humidity	Operation : 20 to 80% RH Storage : 10 to 85% RH Transport : 10 to 85% RH (Max. 72H)	←	Transport : 5 to 85% RH
23. STANDARD			
ITU-T (CCITT)	Rec. T3, T4, T30	←	←
PTT	Each country standard	←	←
Safety	IEC959	←	←

Note: Manufacturer reserve the right to change the specification without notice.

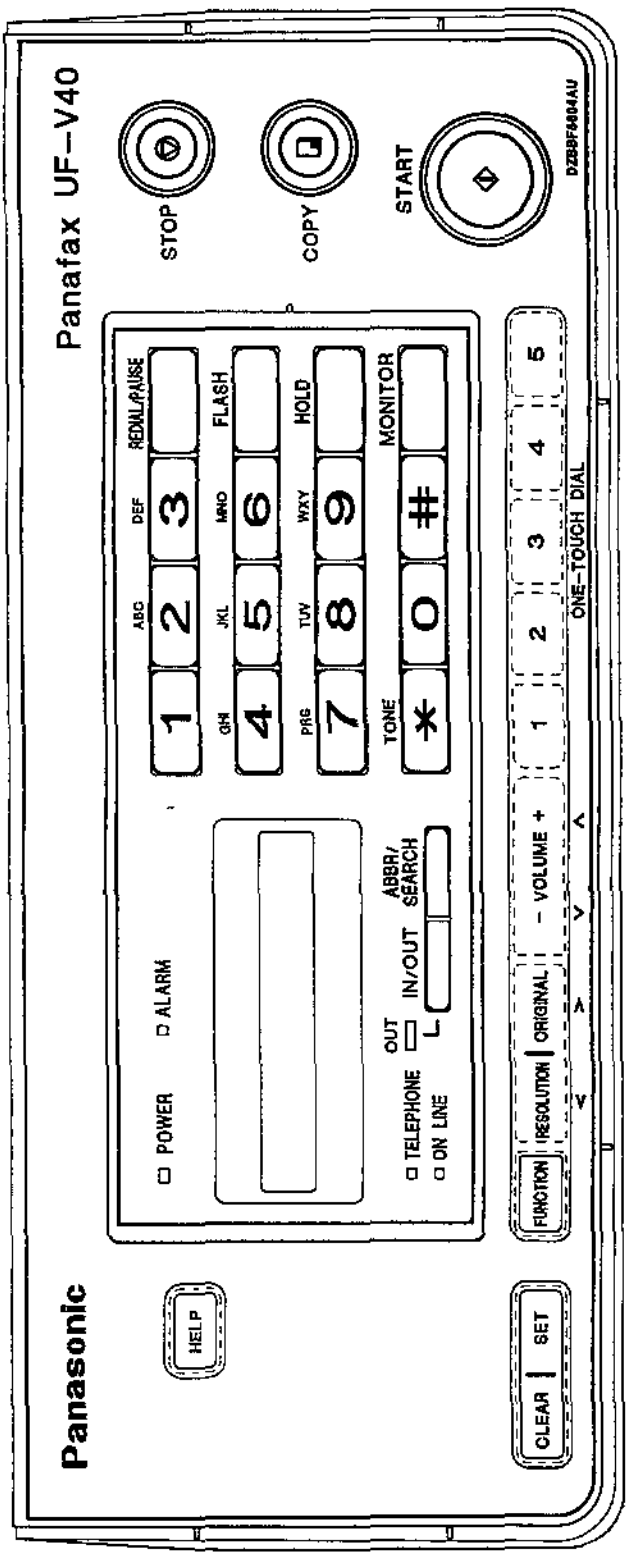
1.4 External View and Control Panel

(1) UF-V40 and UF-V60 External View



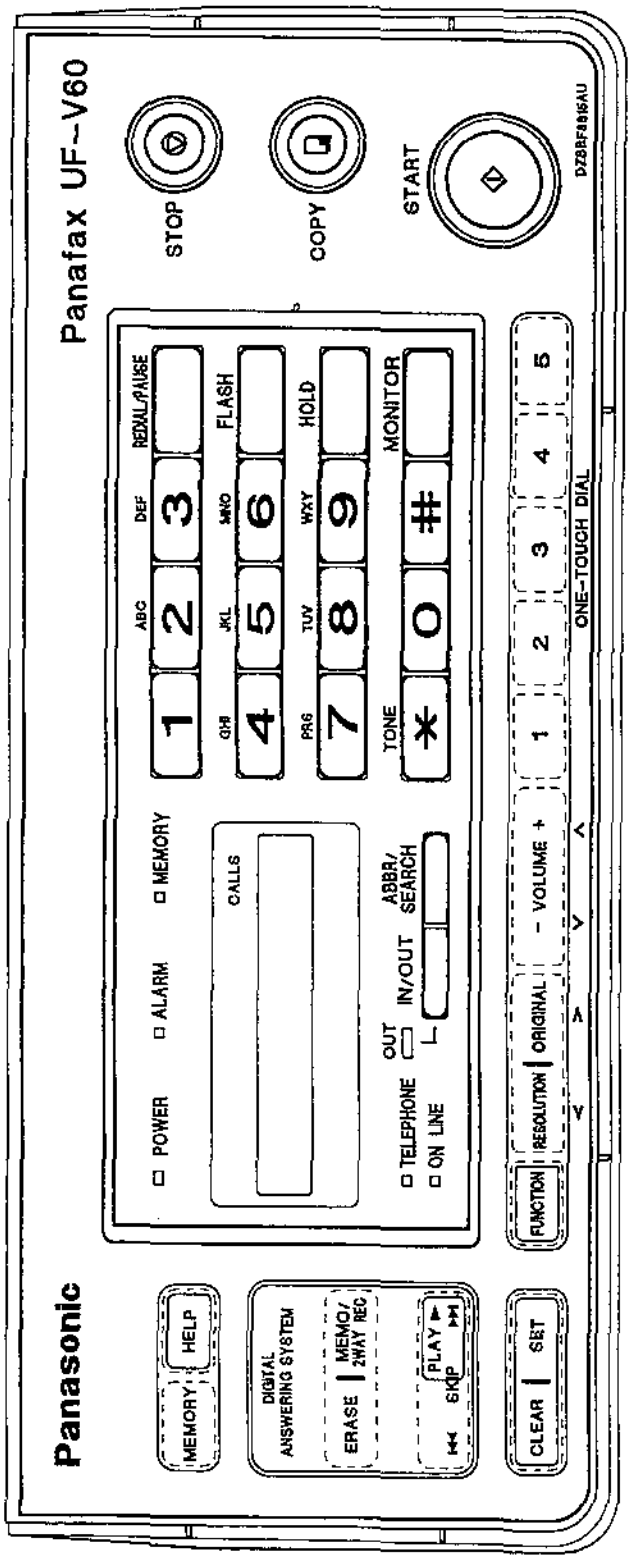
Unit : mm

(2) UF-V40 Control Panel Layout



Note : Depending on the country, word may vary.

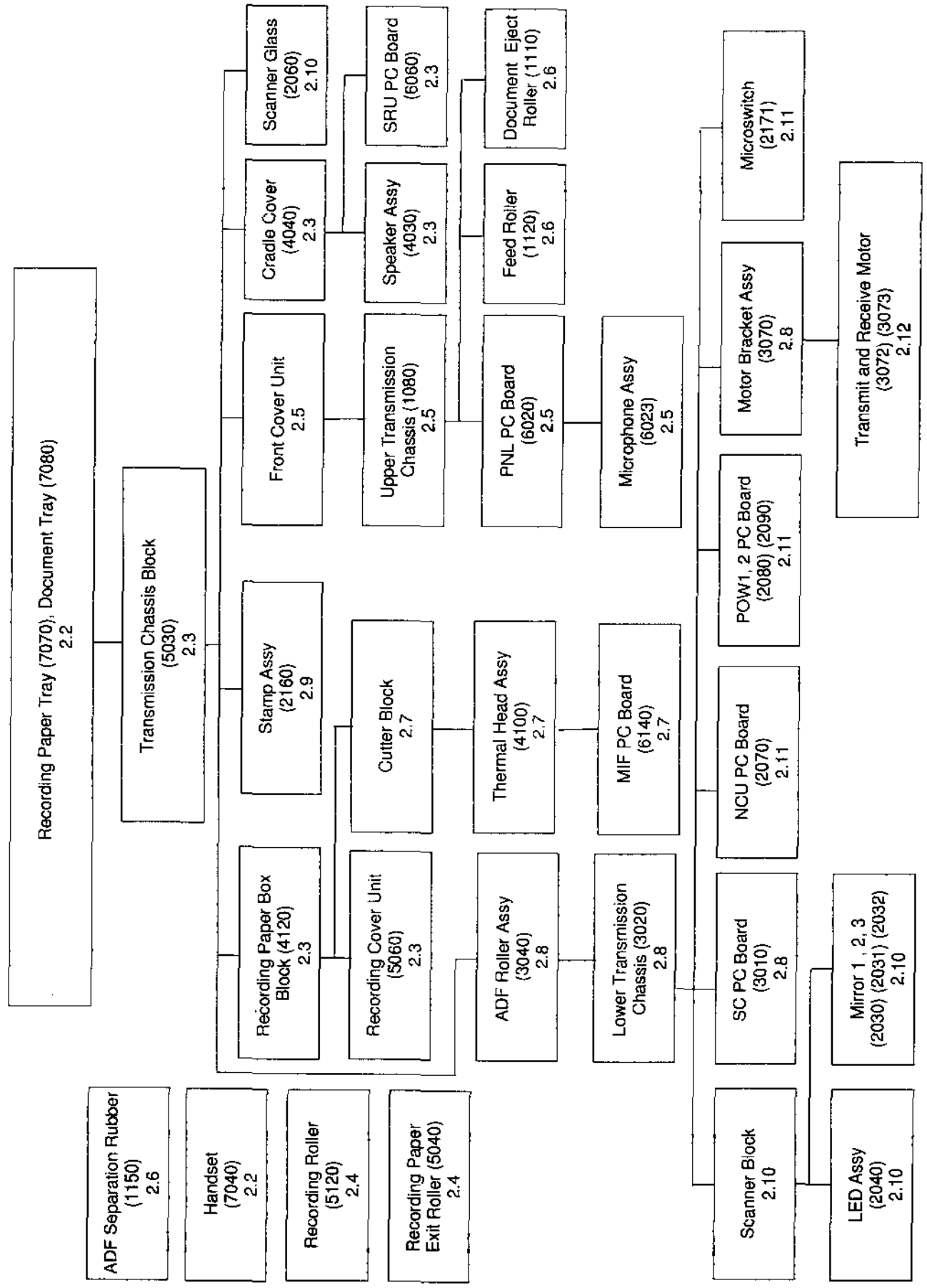
(3) UF-V60 Control Panel Layout



Note : Depending on the country, word may vary.

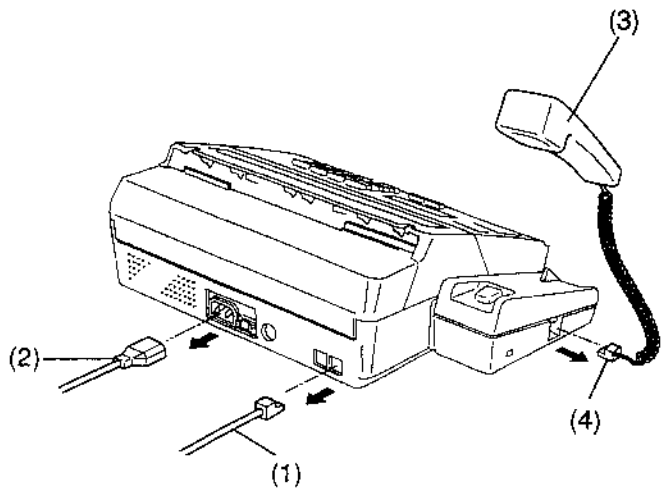
Chapter 2
Disassembly

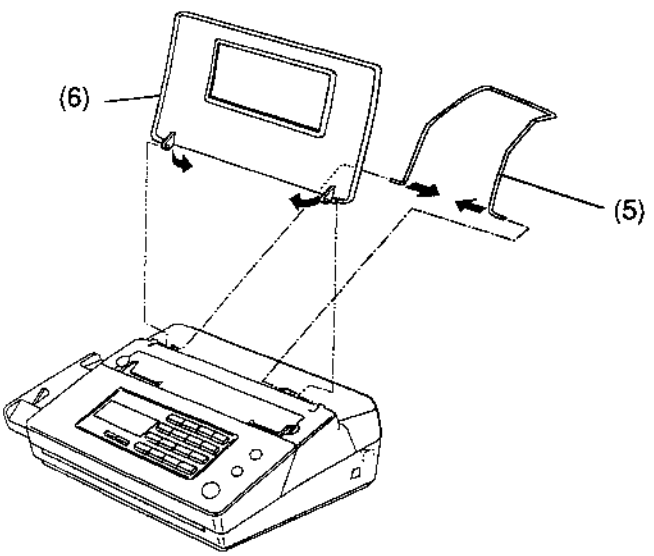
2.1 General Disassembly Flowchart



2.2 Document Tray (7080) and Recording Paper Tray (7070)

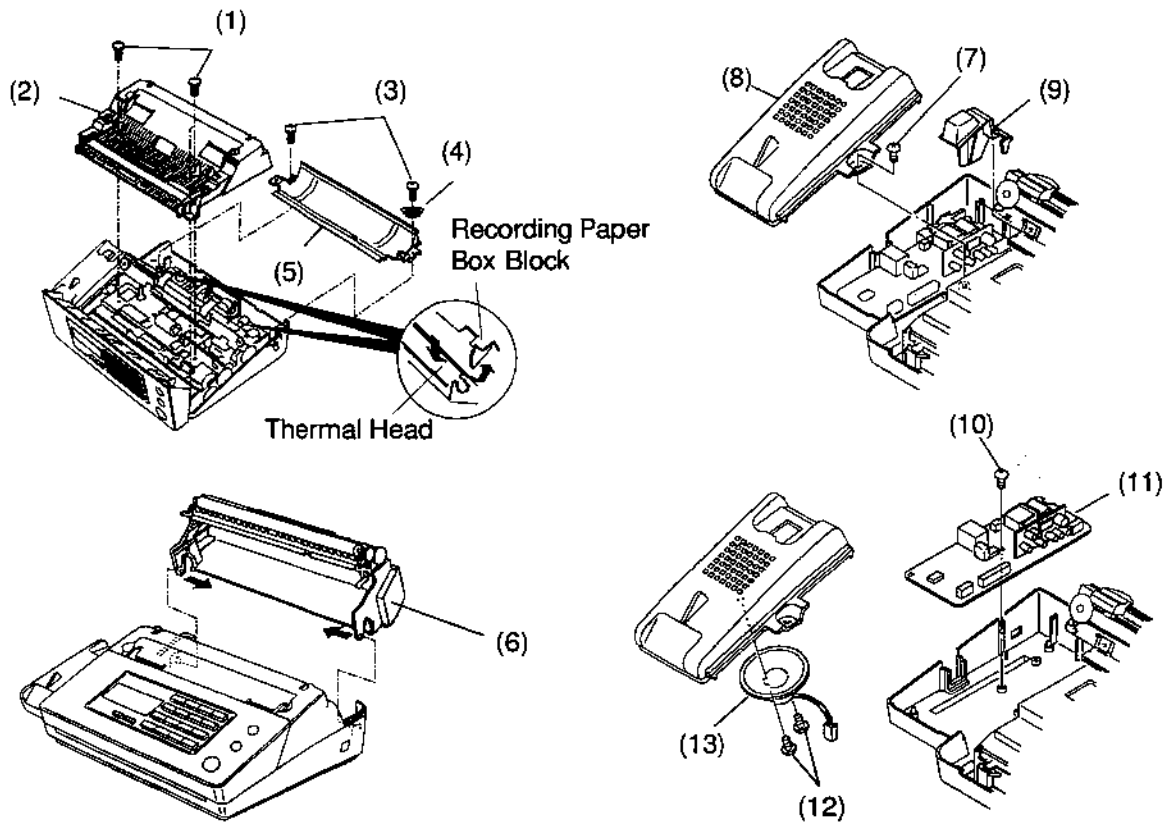
Step	Figure	Disassembly Procedure
1		Turn the Power Switch "Off".
2	(1)	Disconnect the ***Line Cord*** (7020).
3	(2)	Disconnect the ***Power Cord*** (7010).
4	(3)(4)	Remove the ***Handset*** (7040) and the ***Handset Cord*** (7030).
5	(5)	Remove the ***Recording Paper Tray*** (7070).
6	(6)	Remove the ***Document Tray*** (7080).





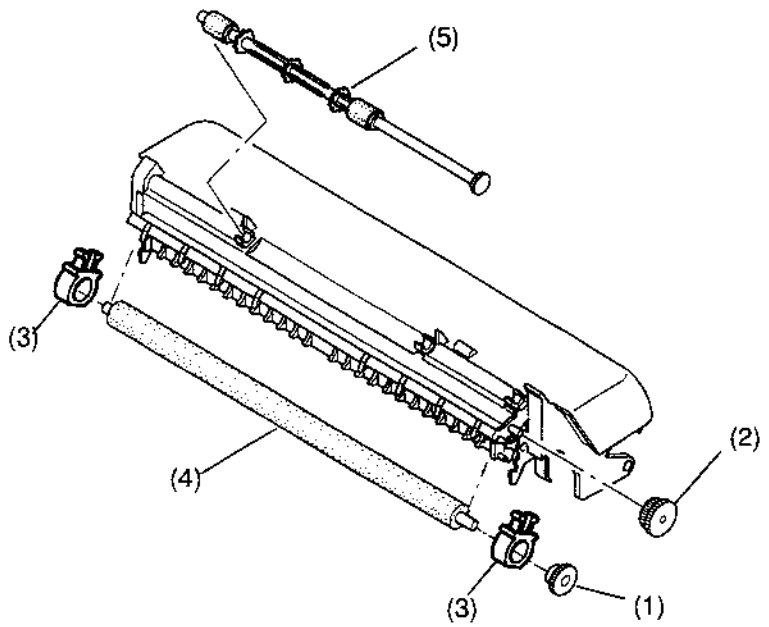
2.3 Transmission Chassis Block (5030), Recording Paper Box Block (4120), Recording Cover Unit (5060) and SRU PC Board (6060)

Step	Figure	Disassembly Procedure
1		Remove the Document Tray and the Recording Paper Tray. (See Section 2.2)
2	(1)	Three ***Screws*** (A5)
3	(2)	Remove the ***Transmission Chassis Block*** (5030).
4	(3) (4)	Two ***Screws*** (1Y) and one ***Coil Spring*** (4123)
5	(5)	Remove the ***Recording Paper Box Block*** (4120) while pressing down on the Thermal Head on each end. **Caution :** Be careful with the sharp cutter blade.
6	(6)	Remove the ***Recording Cover Unit*** (5060)
7	(7)	One ***Screw*** (1Y)
8	(8)	Remove the ***Cradle Cover*** (4040).
9		Disconnect CN41 on the SRU PC Board.
10	(9)	Remove the ***Hook Button*** (4050).
11		Disconnect CN37 and CN39 on the SRU PC Board.
12	(10)	One ***Screw*** (A5)
13	(11)	Remove the ***SRU PC Board*** (6060).
14	(12)	Two ***Screws*** (3P)
15	(13)	Remove the ***Speaker Assy*** (4030).



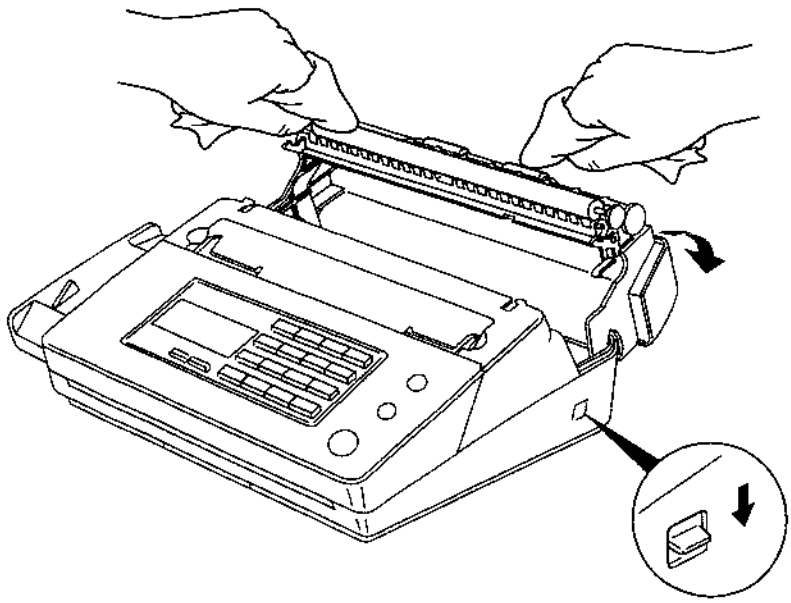
2.4 Recording Roller (5120) and Recording Paper Exit Roller (5040)

Step	Figure	Disassembly Procedure
1		Open the Recording Cover Unit.
2	(1)	Remove the ***Drive Gear*** (5121).
3	(2)	Remove the ***Clutch Gear*** (5070). **Note :** Be sure the white half is on the outside when reassemble.
4	(3)	Detach the ***Bushing*** (5051) by pushing the claws inward by a small screwdriver or whatever.
5	(4)	Remove the ***Recording Roller*** (5120).
6	(5)	Remove the ***Recording Paper Exit Roller*** (5040).



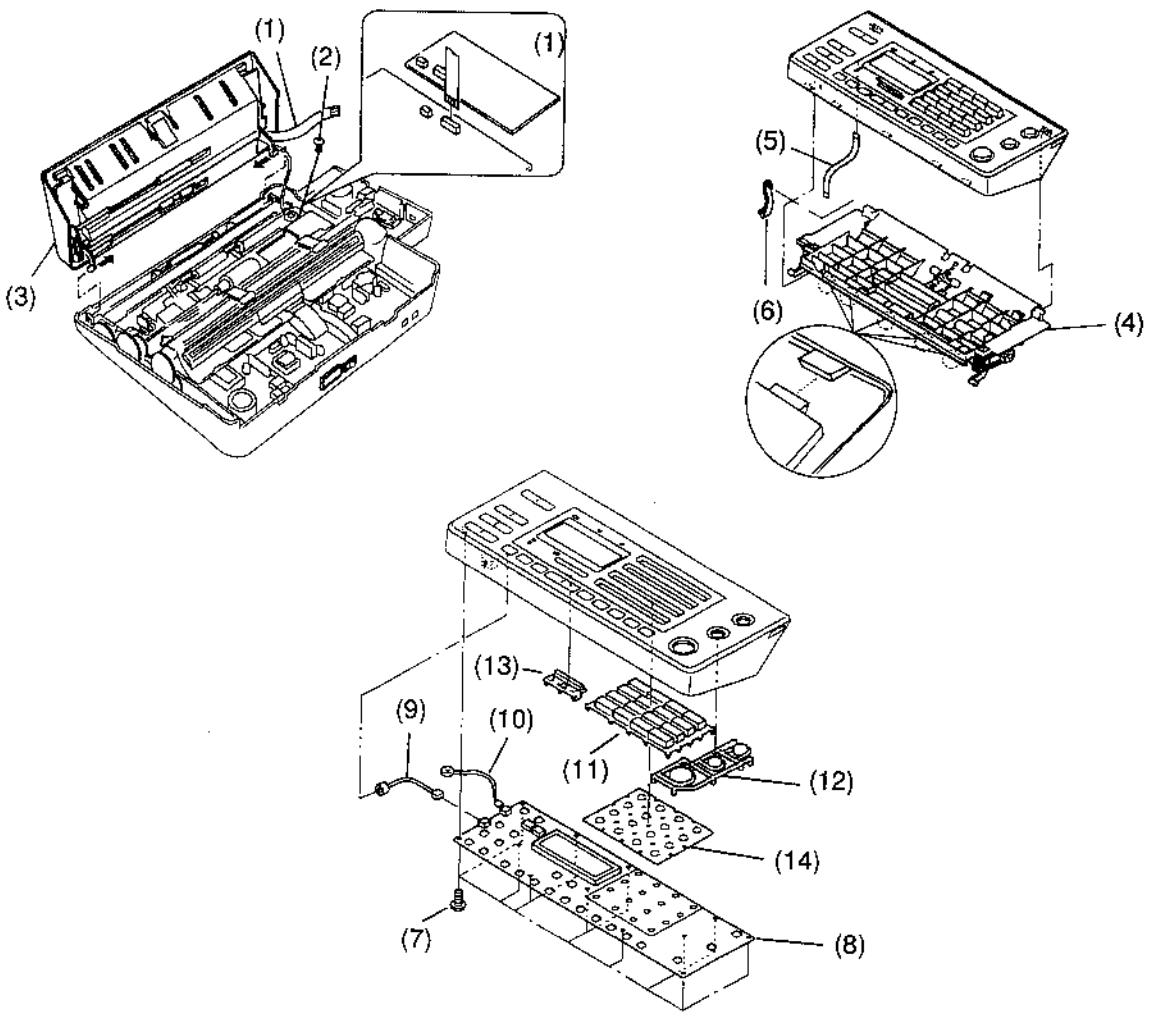
Cleaning

1. Open the Recording Cover.
2. Cleaning the Recording Roller and the Recording Paper Exit Roller using a soft cloth soaked with ethyl alcohol.



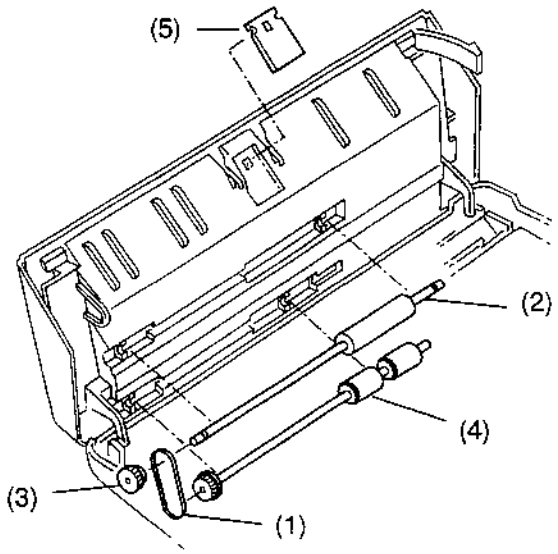
2.5 Panel PC Board (6020) and Microphone Assy (6023)

Step	Figure	Disassembly Procedure
1		Remove the Transmission Chassis Block and the Cradle Cover (See Section 2.3).
2	(1)	Disconnect CN15 on the SC PC Board.
3	(2)	One ***Screw*** (A5) and Ground Wire
4	(3)	Remove the Front Cover Unit.
5	(4)	Remove the ***Upper Transmission Chassis*** (1080) by releasing six hooks.
6	(5)	Remove the ***PNL1 FFC*** (6021) on the Panel PC Board.
7	(6)	Remove the ***S-Stopper*** (1180).
8	(7)	Twelve ***Screws*** (7B)
9	(8)	Remove the ***PNL PC Board*** (6020).
10	(9) (10)	Disconnect CN50 and CN57 on the PNL PC Board and remove the ***Microphone Assy*** (6023) and the ***Ground Strap*** (6024).
(11)	(11)~(14)	Remove the ***Key Top A, B, C*** (1030) (1031) (1032) and the ***Click Sheet*** (1040).



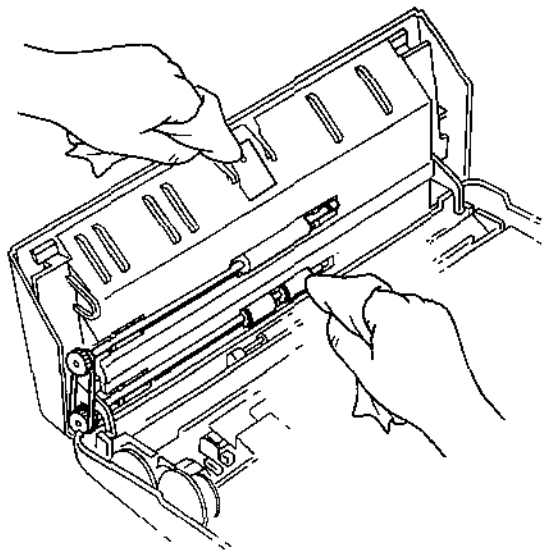
2.6 Feed Roller (1120), Document Eject Roller (1110) and Separation Rubber (1150)

Step	Figure	Disassembly Procedure
1		Open the Front Cover Unit.
2	(1)	Remove the ***Timing Belt*** (1130).
3	(2)	Remove the ***Feed Roller*** (1120).
4	(3)	Remove the ***Drive Gear*** (1100).
5	(4)	Remove the ***Document Eject Roller*** (1110).
6	(5)	Remove the ***Separation Rubber*** (1150).



Cleaning

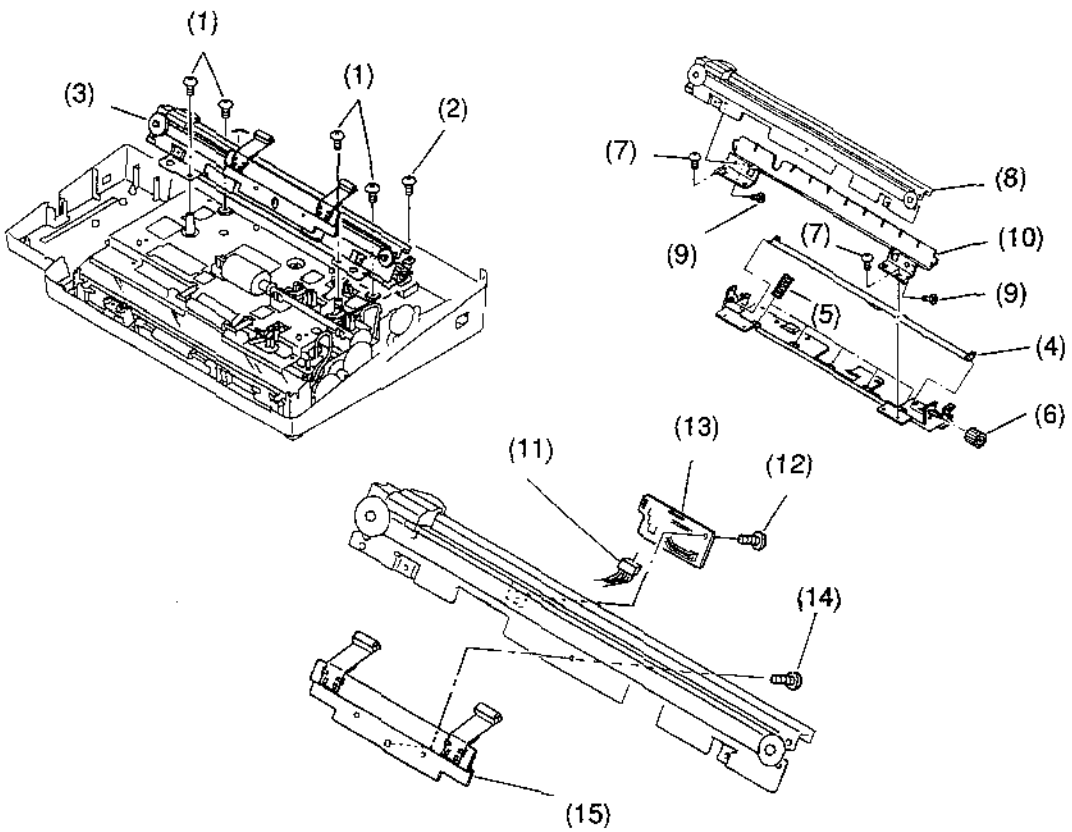
1. Open the Front Cover Unit.
2. Clean the Feed Roller, Document Eject Roller, Scanner Glass and Separation Rubber using a soft cloth soaked with ethyl alcohol.



2.7 Cutter Assy (4080), MIF PC Board (6140) and Thermal Head Assy (4100)

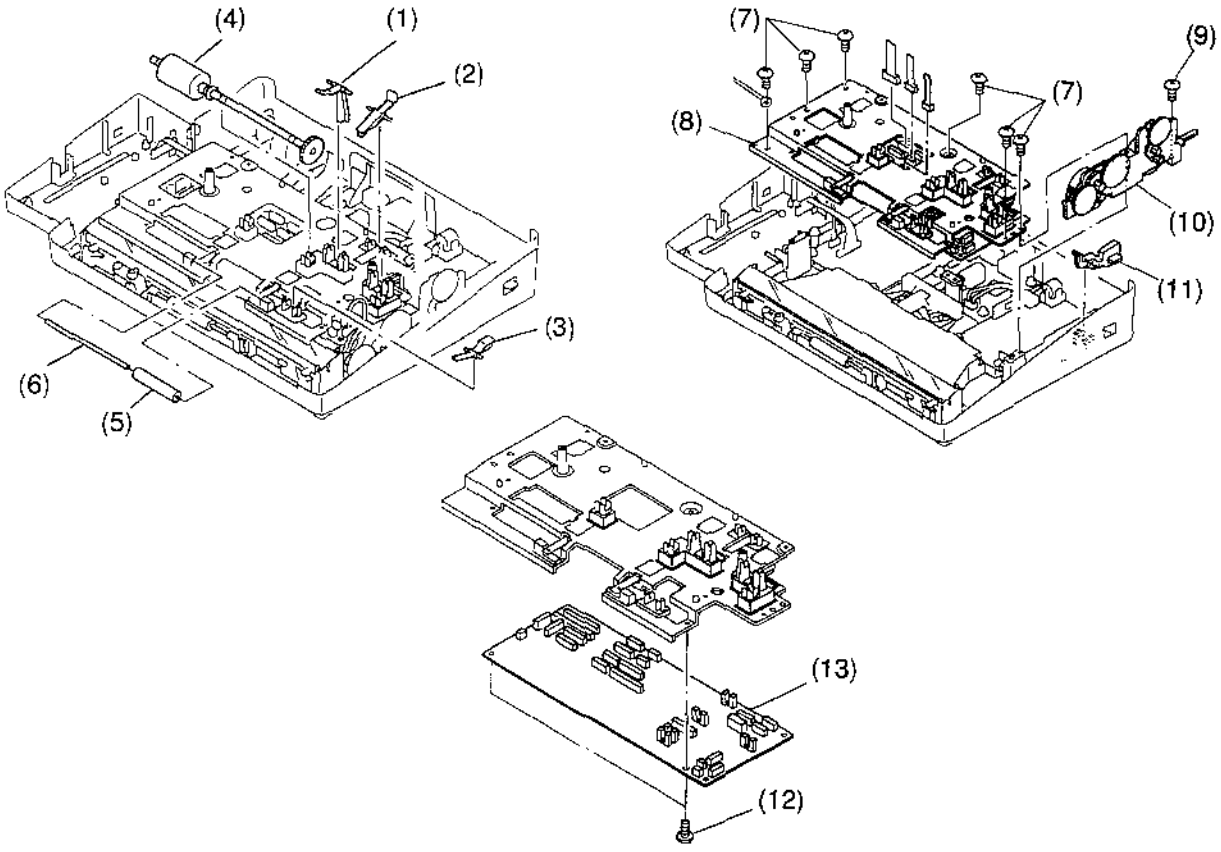
Step	Figure	Disassembly Procedure
1		Remove the Transmission Chassis Block and the Recording Cover Block. (See Section 2.3)
2	(1) (2)	Four ***Screws*** (A5) and one ***Screw*** (6Q)
3	(3)	Remove the Recording Block.
4		Disconnect CN20 and CN21 on the SC PC Board.
5	(4)	Remove the ***Thermal Head Assy*** (4100).
6	(5)	Remove five ***Coil Spring*** (4111).
7	(6)	Remove ***Idle Gear*** (4112).
8	(7)	Two ***Screws*** (A5)
9	(8)	Remove the Cutter Block.
10	(9)	Two ***Screws*** (A5)
11	(10)	Remove the ***R-Guide Plate*** (4090).
12	(11)	Disconnect CN61 and CN65 on the MIF PC Board.
13	(12)	One ***Screw*** (A5)
14	(13)	Remove ***MIF PC Board*** (6140).
15	(14)	One ***Screw*** (A5)
16	(15)	Remove the Pinch Roller Chassis Block.

Caution : Be careful with the sharp cutter blade when servicing.



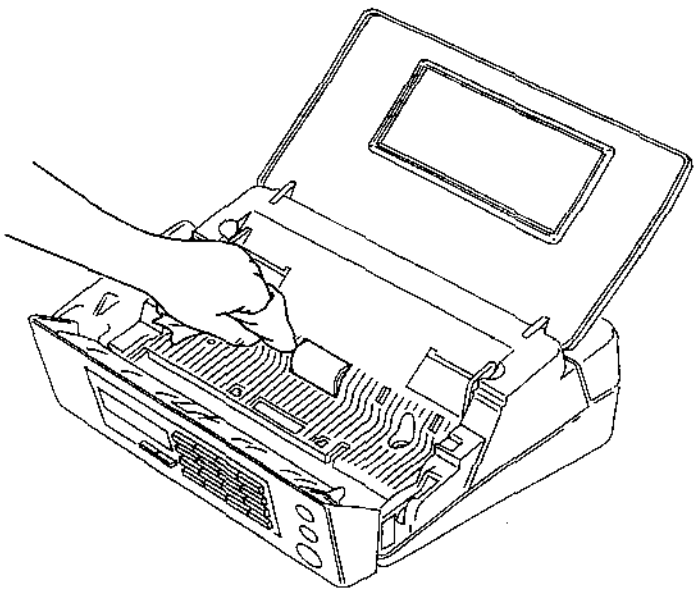
2.8 ADF Roller Assy (3040), Motor Bracket Assy (3070) and SC PC Board (3010)

Step	Figure	Disassembly Procedure
1		Remove the Recording Block. (See Section 2.6.)
2	(1)~(3)	Remove three ***Sensor Arms*** (3060) (3061) (3050).
3	(4)	Remove the ***ADF Roller Assy*** (3040).
4	(5)(6)	Remove the ***Pinch Roller*** (3030) and the ***Pinch Roller Shaft*** (3031).
5		Disconnect all connectors (CN11,12,13,14,15,18, 22) on the SC PC Board. Note : Release the lock on the CN18 before disconnecting the cable.
6	(7)	Six ***Screws*** (A5)
7	(8)	Remove the ***Lower Transmission Chassis*** (3020).
8		Disconnect CN30, 31 on the NCU and CN4 on the POW2 PC Board.
9	(9)	One ***Screw*** (A5)
10	(10)	Remove the ***Motor Bracket Assy*** (3070).
11	(11)	Remove the ***Latch Lever*** (2120).
12	(12)	Two ***Screws*** (A5)
13	(13)	Remove the ***SC PC Board*** (3010).
14		Disconnect CN10, 16 and 17 on the SC PC Board.



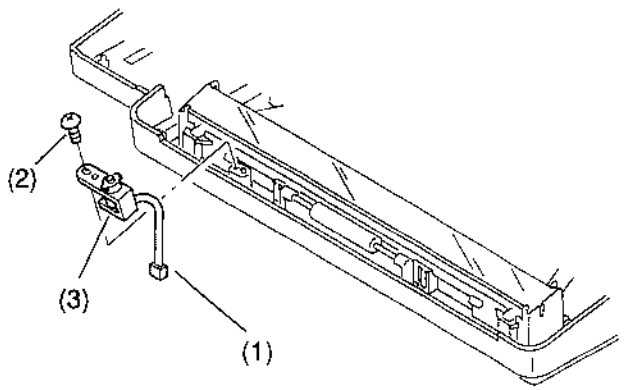
Cleaning

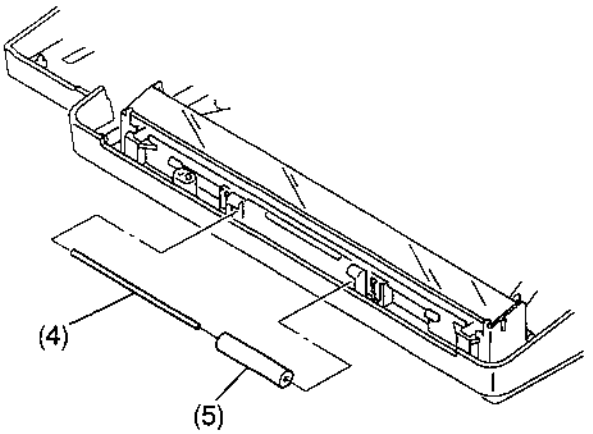
1. Open the Front Cover Unit.
2. Cleaning the ADF Roller using a soft cloth soaked with ethyl alcohol.



2.9 Stamp Assy (2160) and Pinch Roller A (2150)

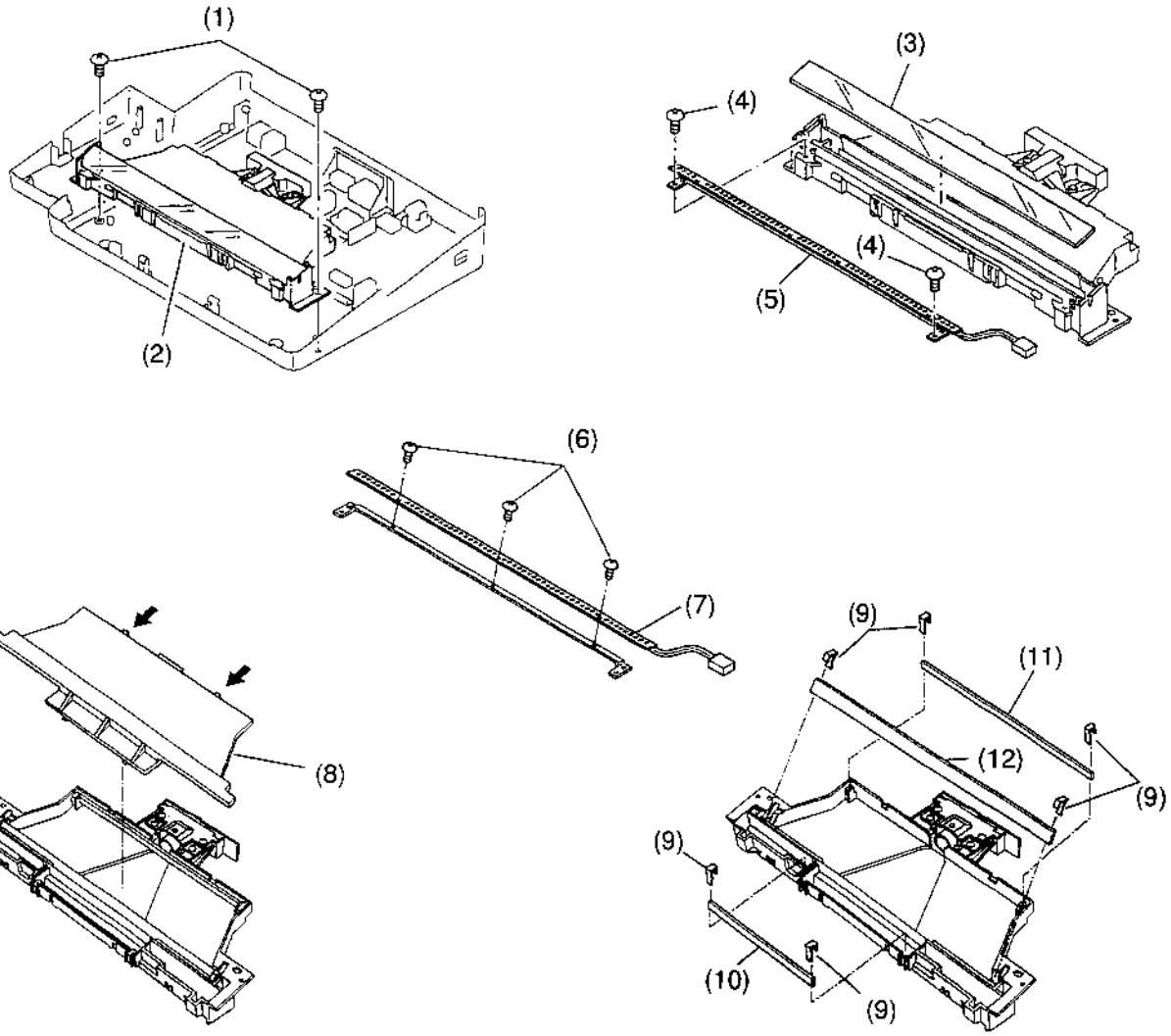
Step	Figure	Disassembly Procedure
1		Remove the Transmission Chassis Block. (See Section 2.3)
2	(1)	Disconnect CN14 on SC PC Board.
3	(2)	One ***Screw*** (A5)
4	(3)	Remove the ***Stamp Assy*** (2160).
5	(4)(5)	Remove the ***Shaft*** (2151) and the ***Pinch Roller A*** (2150).





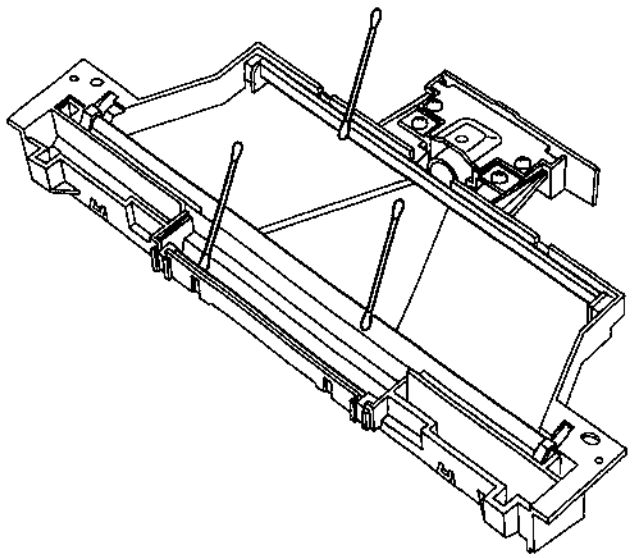
2.10 Scanner Block

Step	Figure	Disassembly Procedure
1		Remove the ***Lower Transmission Chassis*** (3020). (See Section 2.8)
2	(1)	Two ***Screws*** (A5)
3	(2)	Remove the ***Scanner Block***.
4	(3)	Remove the ***Scanner Glass*** (2060).
5	(4)	Two ***Screws*** (A5)
6	(5)	Remove the LED Block.
7	(6)	Three ***Screws*** (96)
8	(7)	Remove the ***LED Assy*** (2040).
9	(8)	Remove the ***Scanner Block Cover*** (2051).
10	(9)	Remove six ***Plate Springs*** (2033).
11	(10)~(12)	Remove ***Mirror 1, 2 and 3*** (2030), (2031) and (2032). Note : The surface marked with a line is the non reflective side.



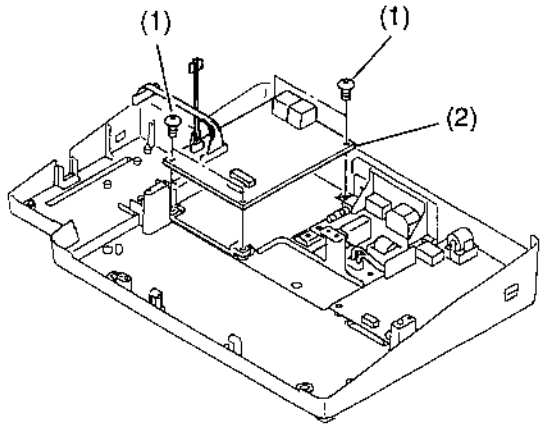
Cleaning

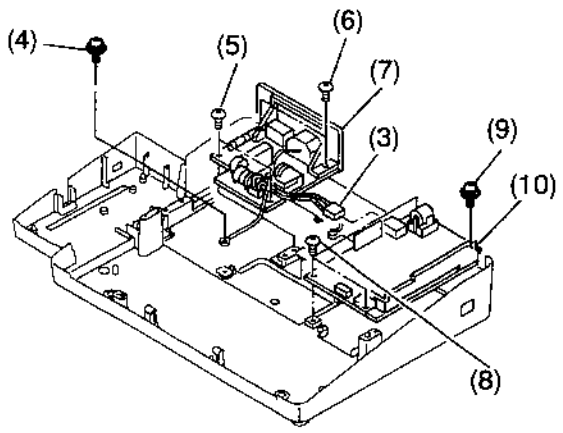
1. Remove the Scanner Block.
2. Remove the Scanner Block Cover.
3. Clean the reflective side of the Mirror 1, 2 and 3

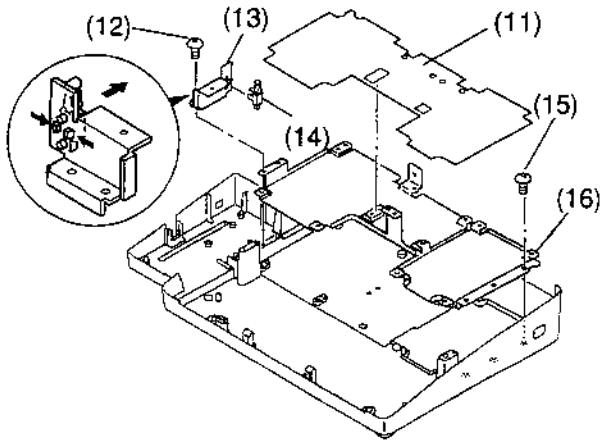


2.11 NCU PC Board (2070) and POW 1, 2 PC Boards (2080) (2090)

Step	Figure	Disassembly Procedure
1		Remove the ***Lower Transmission Chassis*** (3020). (See section 2.8)
2	(1)	Four ***Screws*** (A5)
3	(2)	Remove the ***NCU PC Board*** (2070).
4	(3)	Disconnect CN3 on the POW 2 PC Board.
5	(4)	One ***Screw*** (24) for the Ground strap on the POW 1 PC Board.
6	(5) (6)	Two ***Screws*** (A5) and two ***Screws*** (1Y)
7	(7)	Remove the ***POW 1 PC Board*** (2080).
8	(8) (9)	Three ***Screws*** (A5) and one ***Screw*** (B2)
9	(10)	Remove the ***POW 2 PC Board*** (2090).
10	(11)	Remove the ***Insulation Sheet*** (2100).
11	(12)	One ***Screw*** (A5)
12	(13)	Remove the ***Microswitch Bracket*** (2170).
13	(14)	Remove the ***Receiving Door Sensor*** (2171).
14	(15)	One ***Screw*** (A5)
15	(16)	Remove the ***NCU Chassis*** (2110).

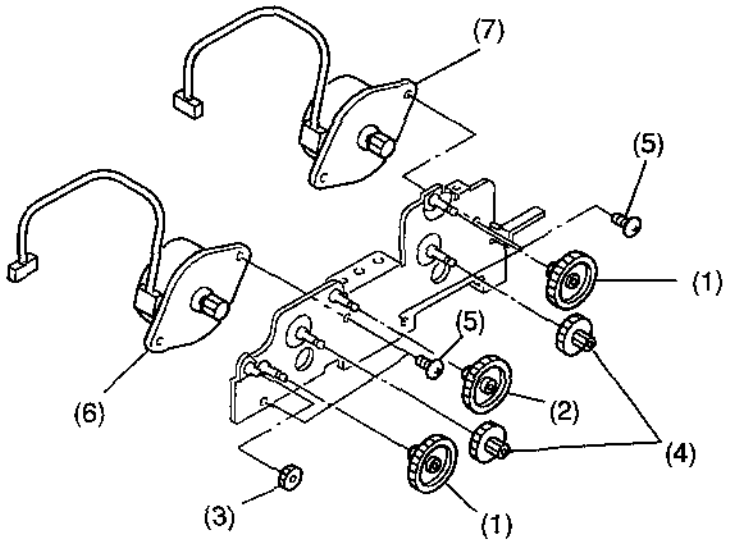






2.12 Motor Bracket Assy (3070), Transmit and Receive Motor (3072) (3073) and Gears (3074) (3075) (3076) (3077)

Step	Figure	Disassembly Procedure
1		Remove the ***Motor Bracket Assy*** (3070). (See section 2.8)
2	(1)~(4)	Remove six ***Gears*** (3074) (3075) (3076) (3077).
3	(5)	Four ***Screws*** (A5)
4	(6)(7)	Remove the ***Transmit Motor*** (3072) and ***Receive Motor*** (3073).



Note

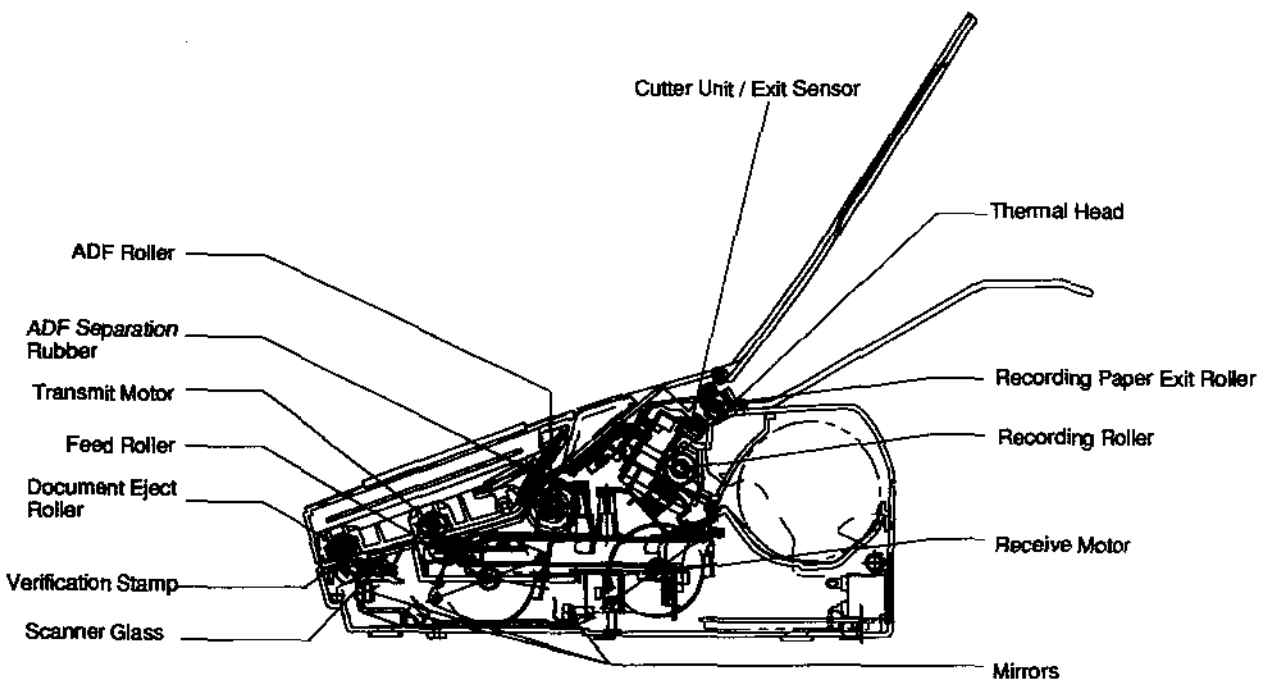
Chapter 3
Maintenance, Adjustments and Check Points

3.1 Required Tools

Tool List

No.	Tool	No.	Tool
1	Soft Cloth	5	Tweezers
2	Ethyl Alcohol	6	Pliers
3	Phillips Screwdriver (#0) (#2)	7	Cotton Swab
4	Blade-tip Screwdriver (3/32 in)	8	Brush

3.2 Periodic Maintenance Points



3.3 Periodic Maintenance Check List

The chart outlined below is a general guideline for maintenance. The example list is for an average usage of 50 transmitted and received documents per day. Needless to say, the environmental conditions and actual use will vary these factors.

The chart below is for reference only.

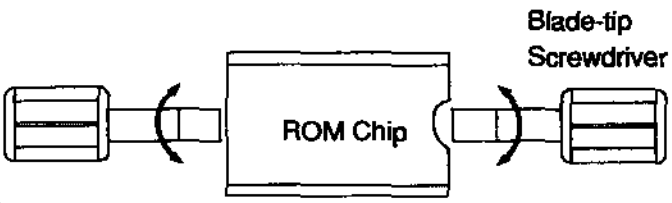
Periodic Maintenance Check List

Maintenance Item	Cleaning		Replacement/Adjustment	
	Cycle	Method	Cycle	Method
ADF Roller	3 months	Page 2-12	1-3 years (10,000 documents)	Page 2-12
Separation Rubber	3 months	Page 2-9	1-3 years (10,000 documents)	Page 2-8
Verification Stamp	-	Page 2-13	1-3 years (5,000 documents)	Page 2-13
Feed Roller	3 months	Page 2-19	3-5 years (30,000 documents)	Page 2-8
TX Motor	-	-	5 years	Page 2-17
RX Motor	-	-	5 years	Page 2-17
Scanner Glass	3 months	Page 2-9	-	-
Document Eject Roller	3 months	Page 2-9	3-5 years (10,000 documents)	Page 2-8
Recording Paper Exit Roller	3 months	Page 2-6	3~5 years (10,000 documents)	Page 2-5
Thermal Head	3 months	Page 2-10	4 years	Page 2-10
Recording Roller	3 months	Page 2-6	5 years	Page 2-5
Cutter Unit	-	-	5 years (30,000 documents)	Page 2-10
Exit Sensor (on the Cutter Unit)	3 months	Page 2-10	-	Page 2-10
Mirror 1, 2 and 3	3 months	Page 2-15	-	-

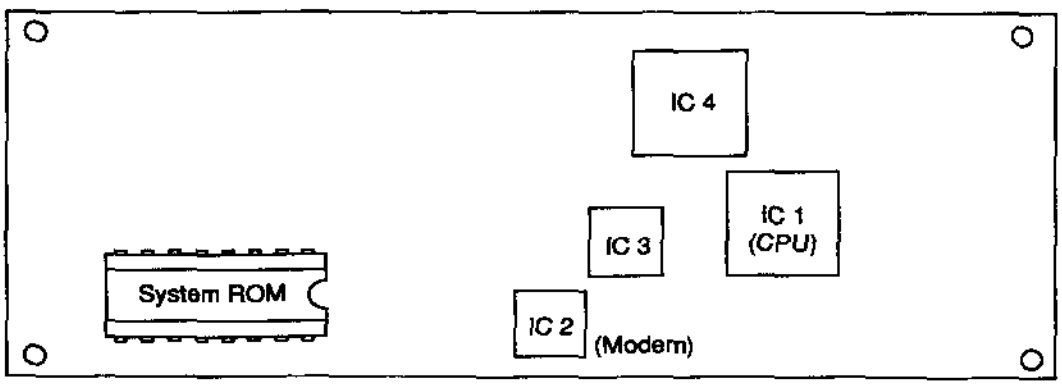
3.4 Program ROM

3.4.1 Replacement Procedure (ROM is mounted on SC PCB.)

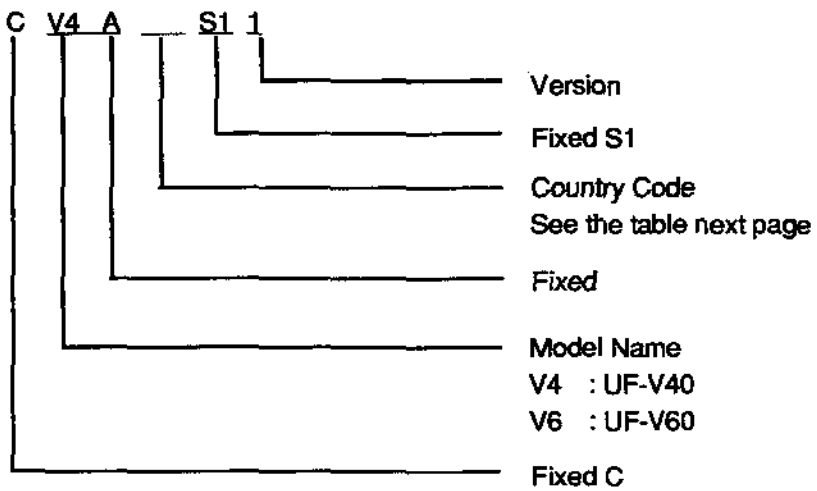
(1) Turn the Power Switch "Off".
(2) Open the Front Cover Assy.
(3) Remove the Transmission Chassis Block.
(4) Remove the ROM with a blade-tip screwdriver or equivalent tool.
(5) Insert new ROM.
(6) Reassemble machine.
(7) Perform Test Mode No. 6-Parameter Initialize.



3.4.2 ROM Location



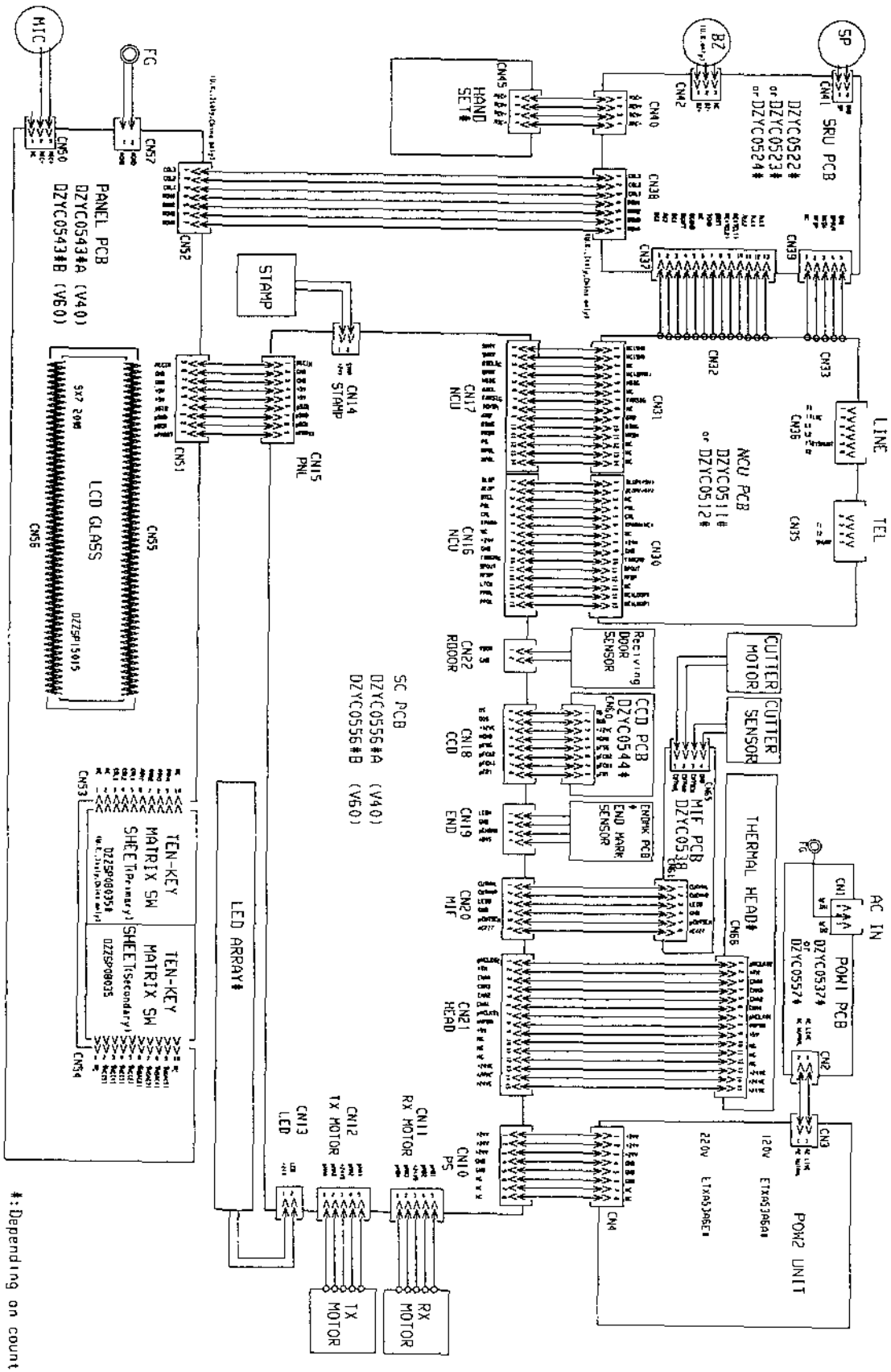
3.4.3 ROM Label



Country Code Table

Country Code	Country	Country Code	Country
AA	Austria	YA	Argentina
AB	U.K.	YC	Others (200 V)
AC	Canada	YS	Others (100 V)
AD	Denmark	YE	Indonesia
AE	Taiwan	YF	Polland
AF	Finland	YG	Greece
AG	Germany	YH	Hungary
AH	Holland	YK	Kuwait
AJ	Spain	YM	Malyasia
AK	Hong Kong	YP	Pakistan
AL	Asutralia	YR	Russia
AM	Switzerland	YS	Saudi Arabia
AN	Norway	YT	Thailand
AP	Portugal	YU	U.A.E.
AQ	Ireland	YV	China
AR	Belgium	YW	South Africa
AS	Sweden	YX	Singapore
AT	Turkey	YY	Mid-South America (100 V)
AU	U.S.A.	YZ	Mid-South America (200 V)
AV	France		
AW	New Zealand		

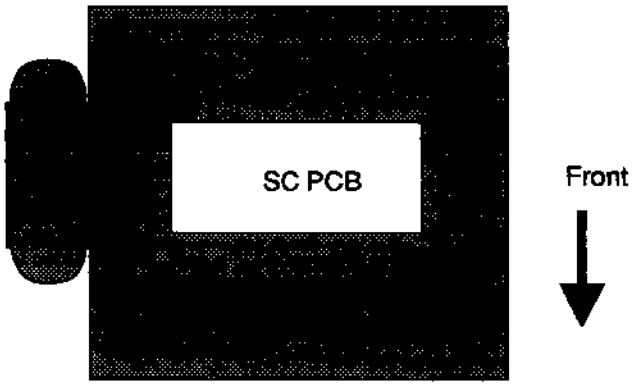
3.5 Schematic Diagram



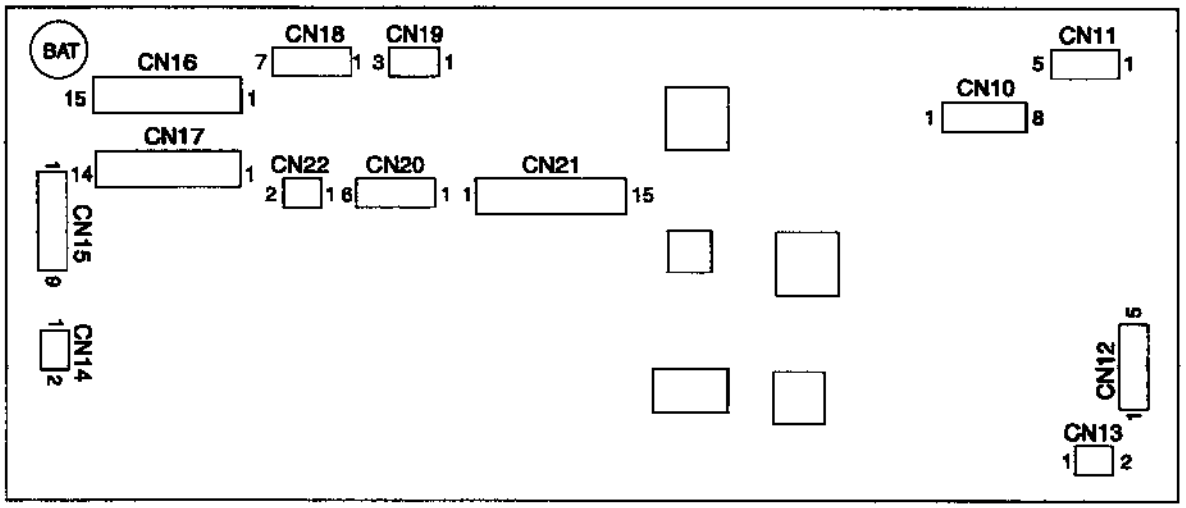
3.6 SC PC Board

3.6.1 SC PC Board Location

Top View



3.6.2 Connector Location on SC PC Board



Note : CN19 is used only for German model.

Lithium Battery

The Lithium Battery is a critical component.
(Type Number VL1220 Manufactured by Matsushita Electric Industrial Co., Ltd.)
It must never be subjected to excessive heat or discharge.It must therefore only be fitted in equipment designed specifically for its use.Replacement batteries must be of an approved type and manufacturer as indicated above.They must be fitted in the same manner and location as the original battery, with the correct polarity connections observed.Do not attempt to re-charge the old battery or re-use it for any other purpose.It should be disposed of in waste products destined for burial rather than incineration.

WARNING

The litium battery in this equipment must only be replaced by qualified personnel. When necessary, contact your local Panasonic supplier.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the above instructions.

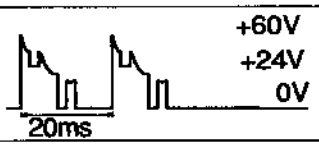
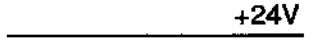
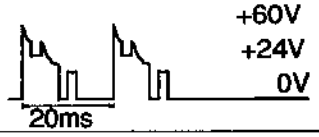
3.6.3 Pin Alignment

Note The following mark in the signal name mean;
* : analog signal.
n : digital signal (normal level is high, activated by low signal.)
p : digital signal (normal level is low, activated by high signal.)

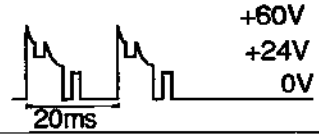
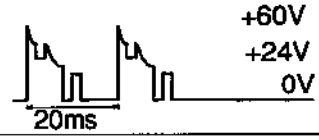
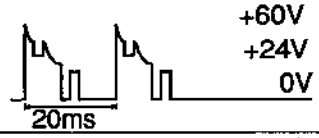
CN10

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	+24V	+24V	Power Supply Unit CN14-1	+24 DC Power Supply
2 IN	+24V	+24V	Power Supply Unit CN14-2	+24 DC Power Supply
3 IN	+24V	+24V	Power Supply Unit CN14-3	+24 DC Power Supply
4	GND	0V	Power Supply Unit CN14-4	Digital Ground
5	GND	0V	Power Supply Unit CN14-5	Digital Ground
6	MG	0V	Power Supply Unit CN14-6	Mechanical Ground
7	NC		Power Supply Unit CN14-7	No Connection
8	NC		Power Supply Unit CN14-8	No Connection

CN11

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 Out	pMB1		Rx MOTOR	Control Pulses for the Stepping Motor
2 Out	pMB2		Rx MOTOR	Control Pulses for the Stepping Motor
3 Out	+24VC		Rx MOTOR	+24V DC Power Supply
4 Out	pMB3		Rx MOTOR	Control Pulses for the Stepping Motor
5 Out	pMB4		Rx MOTOR	Control Pulses for the Stepping Motor

CN12

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 Out	pMA1		Tx MOTOR	Control Pulses for the Stepping Motor
2 Out	pMA2		Tx MOTOR	Control Pulses for the Stepping Motor
3 Out	+24VC		Tx MOTOR	+24V DC Power Supply
4 Out	pMA3		Tx MOTOR	Control Pulses for the Stepping Motor
5 Out	pMA4		Tx MOTOR	Control Pulses for the Stepping Motor

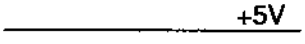
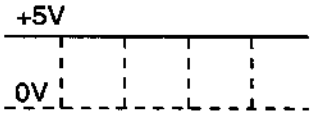
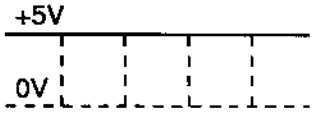
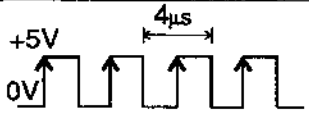
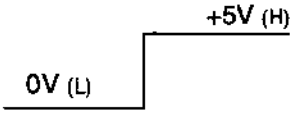
CN13

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	+24V	+24V	LED ARRAY	+24V DC Power Supply
2 OUT	LED	LED On 0V (L) / +24V (H) Off	LED ARRAY	LED Array Control Signal L :LED on H :LED off

CN14

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	+24V	+24V	STAMP	+24V DC Power Supply
2 OUT	STMP	Stamp On 0V (L) / +24V (H) Off	STAMP	Stamp solenoid Control Signal L :Stamp Solenoid on H :Stamp Solenoid off

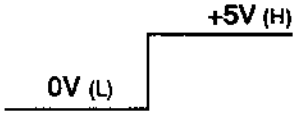
CN15

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	XTL		PANEL PC Board CN51-9	Mic Signal
2	GND		PANEL PC Board CN51-8	Digital Ground
3	GND		PANEL PC Board CN51-7	Digital Ground
4 OUT	+5V		PANEL PC Board CN51-6	+5V DC Power Supply
5 OUT	+5V		PANEL PC Board CN51-5	+5V DC Power Supply
6 OUT	pSID		PANEL PC Board CN51-4	Serial Input Data Synchronize to PSCK
7 IN	pSOD		PANEL PC Board CN51-3	Serial Output Data Synchronize to PSCK
8 OUT	pSCK		PANEL PC Board CN51-2	Synchronize Clock Input/ Output for Serial Data
9 OUT	nPNRST		PANEL PC Board CN51-1	Panel Reset Signal L :Reset Panel CPU

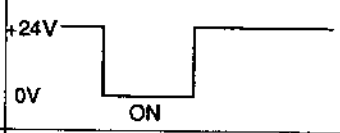
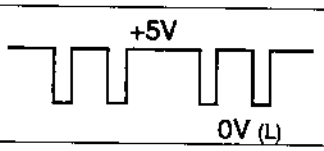
CN16 (1/2)

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	BLOP	+5V (H) 0V (L)	NCU PC Board CN30-1	External Telephone Off-Hook Detection L :Off-Hook
2 IN	BLOP	+5V (H) 0V (L)	NCU PC Board CN30-2	External Telephone Off-Hook Detection L :Off-Hook
3	BTEL		NCU PC Board CN30-3	Not used
4 OUT	PDL	+24V (H) 0V (L)	NCU PC Board CN30-4	Pulse Dialing Control Signal L :Break Loop H :Make Loop
5 OUT	CML	+24V (H) 0V (L)	NCU PC Board CN30-5	Control signal for RL1 L :Relay is switched.
6 IN	TPARA	+5V (H) 0V (L)	NCU PC Board CN30-6	Hook status for the phone connected parallel to LINE L :On-Hook H Pulse :Off-Hook
7 OUT	ATELDC		NCU PC Board CN30-7	Not used
8 OUT	+24V	+24V	NCU PC Board CN30-8	+24V DC Power Supply
9	GND	0V	NCU PC Board CN30-9	Digital Ground
10	FAX GND	0V	NCU PC Board CN30-10	Analog Ground

CN16 (2/2)

Pin No.	Signal Name	Signal Waveform	Destination	Function
11 OUT	SPOUT		NCU PC Board CN30-11	Speaker Signal
12 IN	MFDP		NCU PC Board CN30-12	Tone/Pulse Slide Switch Position H :Tone Dialing L :Pulse Dialing
13	LTCK		NCU PC Board CN30-13	Not used
14	PPOL		NCU PC Board CN30-14	Not used
15	PPOL		NCU PC Board CN30-15	Not used

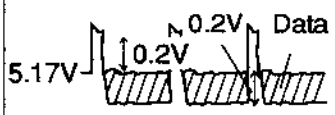
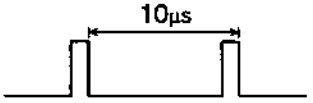
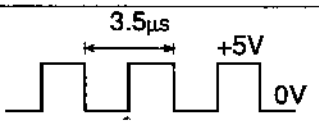
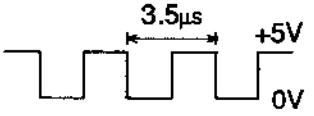
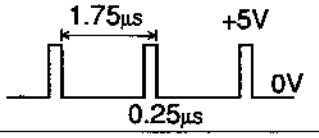
CN17 (1/2)

Pin No.	Signal Name	Signal Waveform	Destination	Function
1	SHRY		NCU PC Board CN31-1	Not used
2	SHRY		NCU PC Board CN31-2	Not used
3	BTEL DC		NCU PC Board CN31-3	Not used
4	DPMT		NCU PC Board CN31-4	Control signal Loop Relay
5 IN/OUT	HSIG		NCU PC Board CN31-5	Telephone signals and CNG
6	ATEL		NCU PC Board CN31-6	Not used
7 IN/OUT	FAX SIG		NCU PC Board CN31-7	Fax signals
8	TCKSW		NCU PC Board CN31-8	Not used
9	GND		NCU PC Board CN31-9	Digital Ground
10 IN	RING		NCU PC Board CN31-10	Ring Status of LINE L :Ringing

CN17 (2/2)

Pin No.	Signal Name	Signal Waveform	Destination	Function
11 IN	HKSW	+5V (H) 0V (L)	NCU PC Board CN31-11	Handset Hook Status H : On-Hook L : Off-Hook
12	PS		NCU PC Board CN31-12	Not used
13	NPOL		NCU PC Board CN31-13	Not used
14	NPOL		NCU PC Board CN31-14	Not used

CN18

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	OS		CCD PC Board CN60-1	Output Signal Shaded area is light detected
2 IN	DOS		CCD PC Board CN60-2	Differential Output Signal used to compare with OS to obtain light detected
3 OUT	+12 VC		CCD PC Board CN60-3	+12V DC Power Supply
4	AGND		CCD PC Board CN60-4	Analog Ground
5 IN	pFSG		CCD PC Board CN60-5	Serial Data
6 OUT	pFCK2		CCD PC Board CN60-6	Clock Signal
7 OUT	pFCK1		CCD PC Board CN60-7	Clock Signal
8 OUT	pFR1		CCD PC Board CN60-8	Reset Signal

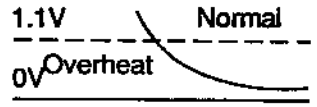
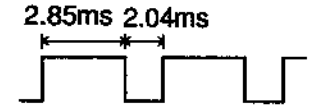
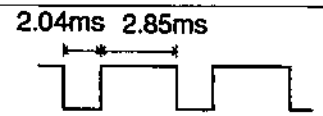
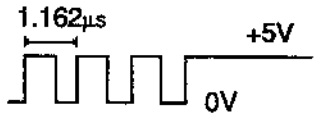
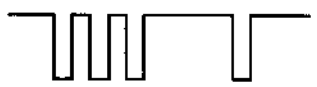
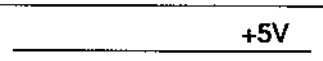
CN19

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	LEDA	Approx. +5V	ENDMK PC Board	Approx. +5 V DC Power Supply
2	GND		ENDMK PC Board	Digital Ground
3 IN	pENDNK	Approx. 3~5V (H); (L) Approx. 0~2V; Approx. 1V	ENDMK PC Board	END Mark Sensor Detect H : End mark L : Normal

CN20

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	CUTMVL	+22.4V (H); 0V (L)	MIF PC Board CN61-1	Cutter Motor Drive Signal H :Turn counter-clockwise
2 OUT	CUTMVR	+22.4V (H); 0V (L)	MIF PC Board CN61-2	Cutter Motor Drive Signal H :Turn clockwise
3 OUT	LEDB	Approx. +1.4V	MIF PC Board CN61-3	1.46V DC Power Supply to LED (Photo-sensor)
4	GND	0V	MIF PC Board CN61-4	Digital Ground
5 IN	pCUTSEN	+5V (H); 0V (L)	MIF PC Board CN61-5	Cutter Position Sensor L :Home position
6 IN	*EXIT	+5V (H); 0V (L)	MIF PC Board CN61-6	Recording Paper Exit Sensor L :Paper detected H :No paper detected

CN21 (1/2)

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	pHCLK02		Thermal Head	Serial Clock
2 IN	*TM		Thermal Head	Monitoring Thermistor (overheat) Threshold : Approx. 1.1V
3 OUT	ENA4		Thermal Head	Enable Signal (Not used for Rohm head. Used for Kyosera head.)
4 OUT	ENA3		Thermal Head	Enable Signal (Not used for Rohm head. Used for Kyosera head.)
5 OUT	ENA2		Thermal Head	Enable Signal
6 OUT	ENA1		Thermal Head	Enable Signal
7 OUT	pHCLK01		Thermal Head	Serial Clock
8 OUT	*VPDA		Thermal Head	Serial Data
9 OUT	+5V		Thermal Head	+5V DC Power Supply
10	MG		Thermal Head	Mechanical Ground

CN21 (2/2)

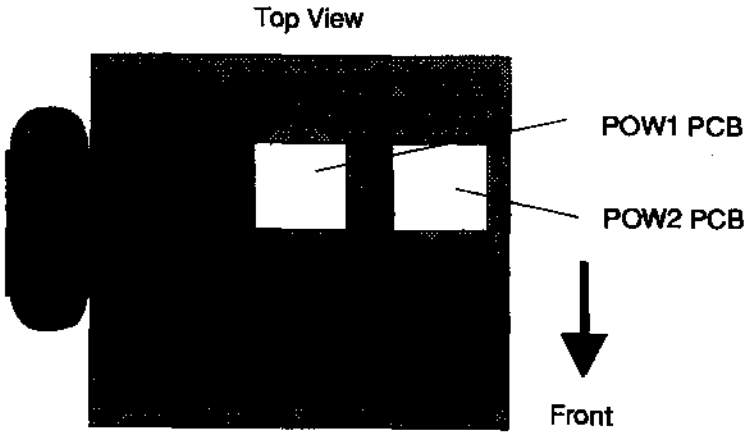
Pin No.	Signal Name	Signal Waveform	Destination	Function
11	MG	0V	Thermal Head	Mechanical Ground
12	MG	0V	Thermal Head	Mechanical Ground
13 OUT	+24VC	+24V	Thermal Head	+24V DC Power Supply
14 OUT	+24VC	+24V	Thermal Head	+24V DC Power Supply
15 OUT	+24VC	+24V	Thermal Head	+24V DC Power Supply

CN22

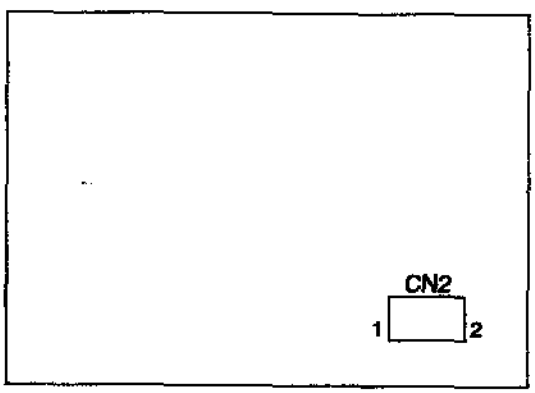
Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	RDOR	+5V (H), Close, Open, 0V (L)	RDOOR SENSOR	Rear Door Sensor L :Door close H :Door open
2	GND	0V	RDOOR SENSOR	Digital Ground

3.7 Power Supply PC Board

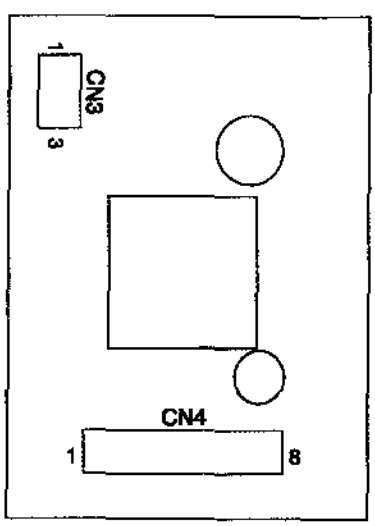
3.7.1 PCB Location



3.7.2 Connector Location on POW1 PC Board



3.7.3 Connector Location on POW2 PC Board



3.7.4 Pin Alignment

(1) POW1 PC Board

CN2

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	AC LIVE		POW2 PC Board CN3-3	110 VAC / 120 VAC or 220 VAC / 240 VAC
2 OUT	AC NUTRAL		POW 2 PC Board CN3-1	110 VAC / 120 VAC or 220 VAC / 240 VAC

(2) POW2 PC Board

CN3

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	AC NUTRAL		POW1 PC Board CN2-2	110 VAC / 120 VAC or 220 VAC / 240 VAC
2	NC			No connection
3 IN	AC LIVE		POW 1 PC Board CN2-1	110 VAC / 120 VAC or 220 VAC / 240 VAC

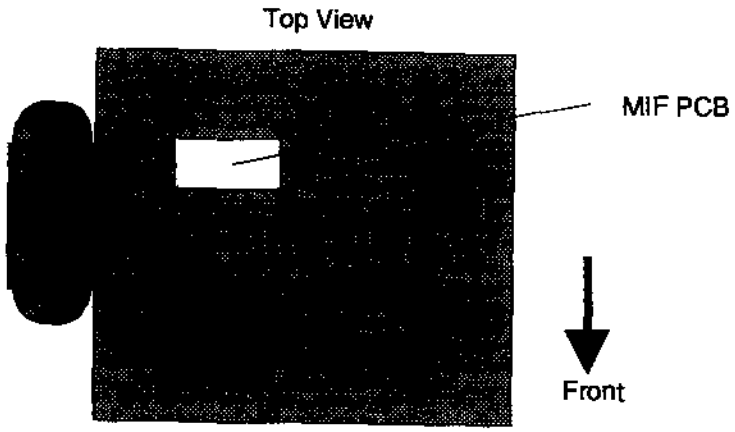
CN4

See CN10 on SC PC Board in page 3-8.

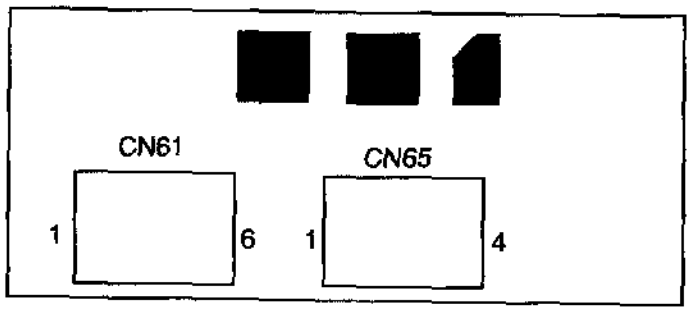
3.8 MIF PC Board

3.8.1 PCB Location

MIF PC board is mounted in the Cutter Unit.



3.8.2 Connector Location on MIF PC Board



3.8.3 Pin Alignment

CN65

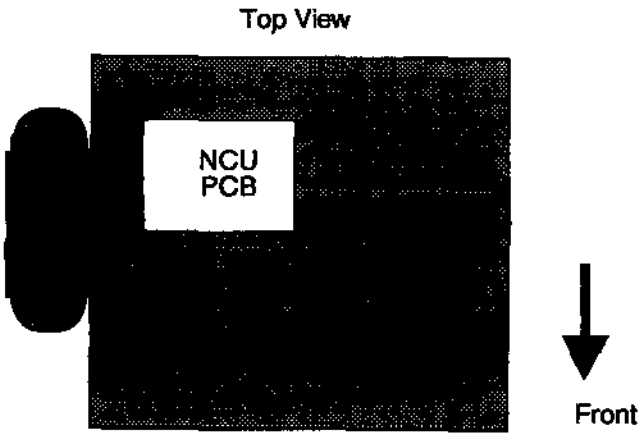
Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	CUTMVL	+24V (H) 0V (L)	Cutter Motor	Cutter Motor Drive Signal H : Rotate counter-clockwise
2 OUT	CUTMVR	+24V (H) 0V (L)	Cutter Motor	Cutter Motor DriveSignal H : Rotate clockwise
3	GND	0V	Cutter Sensor	Digital Ground
4 IN	pCUTSEN	5V (H) 0V (L)	Cutter Sensor	Cutter Position Sensor Signal L : Home position

CN61

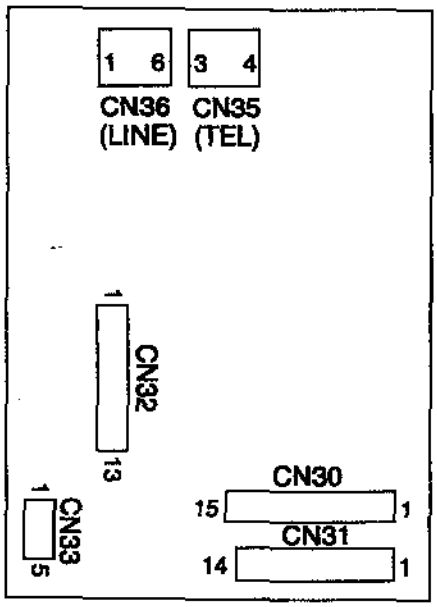
See CN20 on SC PC Board in page 3-17.

3.9 NCU PC Board

3.9.1 PCB Location

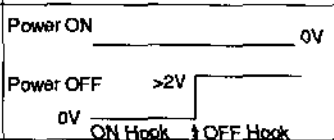


3.9.2 Connecter Location on NCU PC Board



3.9.3 Pin Alignment

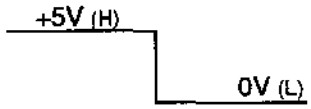
CN32 (1/2)

Pin No.	Signal Name	Signal Waveform	Destination	Function
1	RG2		SRU PC Board CN37-1	Telephone Signals
2	RG2		SRU PC Board CN37-2	Telephone Signals
3	RG1		SRU PC Board CN37-3	Telephone Signals
4	RGOFF		SRU PC Board CN37-4	Ringer ON/OFF Control H : ON L : OFF
5	RG GND		SRU PC Board CN37-5	Ringer Circuit Ground
6	NC		SRU PC Board CN37-6	No Connection
7	TGND		SRU PC Board CN37-7	Speech Circuit Ground
8	DRST		SRU PC Board CN37-8	Dialer reset signal (Used only for U.K., China and Italy)
9	TEL2		SRU PC Board CN37-9	Connected to T2 for U.K., Austria and Sweden
10	TEL1		SRU PC Board CN37-10	Connected to T1 for U.K., Austria and Sweden

CN32 (2/2)

Pin No.	Signal Name	Signal Waveform	Destination	Function
11 IN/OUT	TLL2		SRU PC Board CN37-11	Telephone Signals
12 IN/OUT	TLL1		SRU PC Board CN37-12	Telephone Signals
13 IN/OUT	TLL1		SRU PC Board CN37-13	Telephone Signals

CN33

Pin No.	Signal Name	Signal Waveform	Destination	Function
1	PS (RID)		SRU PC Board CN39-1	Not used
2 IN	MFDP		SRU PC Board CN39-2	Tone/Pulse Slide Switch Position H :Tone Dialing L :Pulse Dialing
3 IN	HKSW		SRU PC Board CN39-3	Hook Switch status of Handset H : On-Hook L : Off-Hook
4 OUT	SPOUT		SRU PC Board CN39-4	Speaker Signal
5	GND		SRU PC Board CN39-5	Digital Ground

CN35 (for U.K., Hong Kong, New Zealand)

Pin No.	Signal Name	Signal Waveform	Destination	Function
2	NC			No Connection
3	T1		External Telephone	Line Signal to External Telephone Device
4	T2		External Telephone	Line Signal to External Telephone Device
5	Shunt		External Telephone	Ringer Signal to External Telephone Device

CN35 (for Switzerland)

Pin No.	Signal Name	Signal Waveform	Destination	Function
2	Earth		External Telephone	Line Earth
3	NC			No Connection
4	T1		External Telephone	Line Signal to External Telephone Device
5	T2		External Telephone	Line Signal to External Telephone Device

CN35 (Other countries)

Pin No.	Signal Name	Signal Waveform	Destination	Function
3 IN/OUT	BTL1		External Telephone	Line Signal to External Telephone Device
4 IN/OUT	BTL2		External Telephone	Line Signal to External Telephone Device

CN36 (for U.K., Hong Kong, New Zealand)

Pin No.	Signal Name	Signal Waveform	Destination	Function
2	L1		Telephone Line	Line Signal
3	NC			No Connection
4	Shunt		Shunt Line	Ringer Signal
5	L2		Telephone Line	Line Signal

CN36 (Other countries)

Pin No.	Signal Name	Signal Waveform	Destination	Function
1	NC or E or T1		External Telephone	No connection or Line Earth or Line Signal to External Telephone Device.
2	NC or E or T1		External Telephone	No connection or Line Earth or Line Signal to External Telephone Device.
3	L1		Telephone Line	Line Signal
4	L2		Telephone Line	Line Signal
5	NC or T2		External Telephone	No connection or Line signal to External Telephone Device.
6	NC or T2		External Telephone	No connection or Line signal to External Telephone Device.

CN30

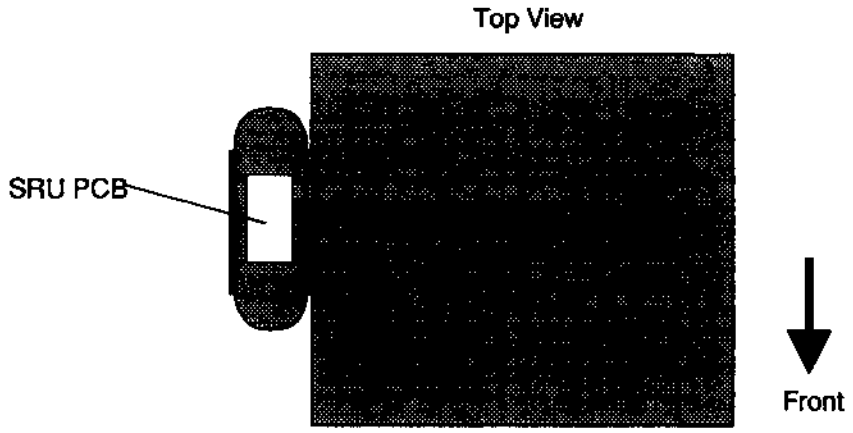
See CN16 on SC PC Board in page 3-12.

CN31

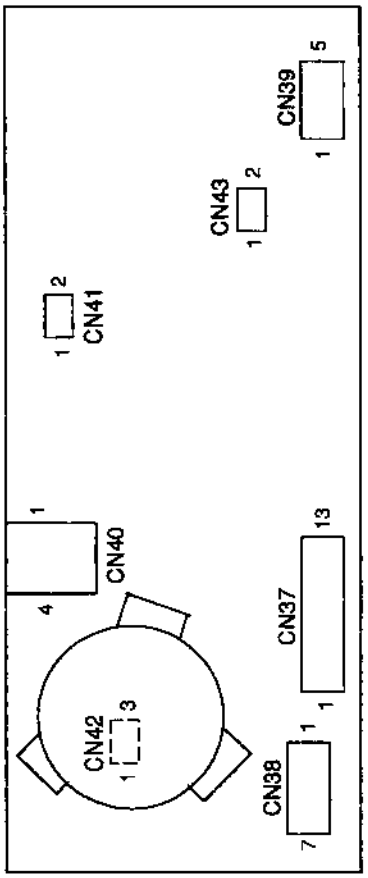
See CN17 on SC PC Board in page 3-14.

3.10 SRU PC Board

3.10.1 PCB Location



3.10.2 Connector Location on SRU PC Board



Note 1 CN38 is mounted on DZYC0523B (for UK) and DZYC0522X (for Italy) only.

Note 2 CN42 is not mounted.

Note 3 CN43 is not used .

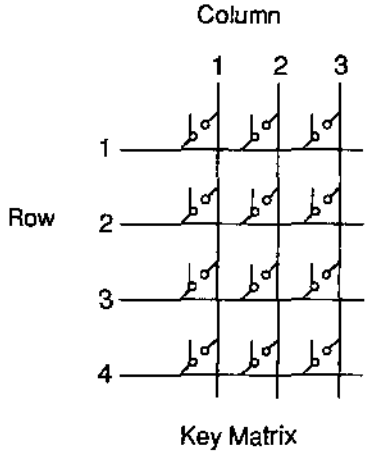
3.10.3 Pin Alignment

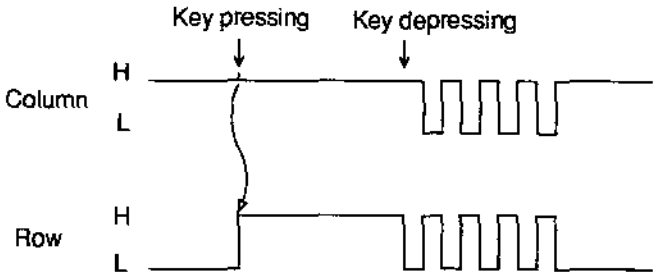
CN38

Pin No.	Signal Name	Signal Waveform		Destination	Function
1	Column 3	Stand by H level 2~5V; H; L	By detecting Key pressing	Key Matrix in the Control Panel	Scanning signal for Key Matrix when no power occured.
2	Column 2	H; L		Key Matrix in the Control Panel	Scanning signal for Key Matrix when no power occured.
3	Column 1	H; L		Key Matrix in the Control Panel	Scanning signal for Key Matrix when no power occured.
4	Row 1	L level 0 ~ 1V; H; L		Key Matrix in the Control Panel	Scanning signal for Key Matrix when no power occured.
5	Row 2	H; L		Key Matrix in the Control Panel	Scanning signal for Key Matrix when no power occured.
6	Row 3	H; L		Key Matrix in the Control Panel	Scanning signal for Key Matrix when no power occured.
7	Row 4	H; L		Key Matrix in the Control Panel	Scanning signal for Key Matrix when no power occured.

Supplementation :

By detecting key pressing, pluse signal is generated for both row and clumn. Row signal corresponding with key pressed is kept high.



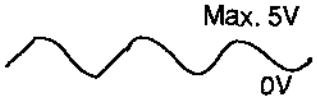


H level about 2V ~ 5V due to power is supplied from line.

CN40

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	MIC +		Handset	Handset Mic. Signal
2 OUT	RCV +		Handset	Handset Receiver Signal
3 OUT	RCV -		Handset	Handset Receiver Signal
4 IN	MIC -		Handset	Handset Mic. Signal

CN41

Pin No.	Signal Name	Signal Waveform	Destination	Function
1 OUT	SP		Speaker	Speaker Signal
2	GND		Speaker	Digital Ground

CN37

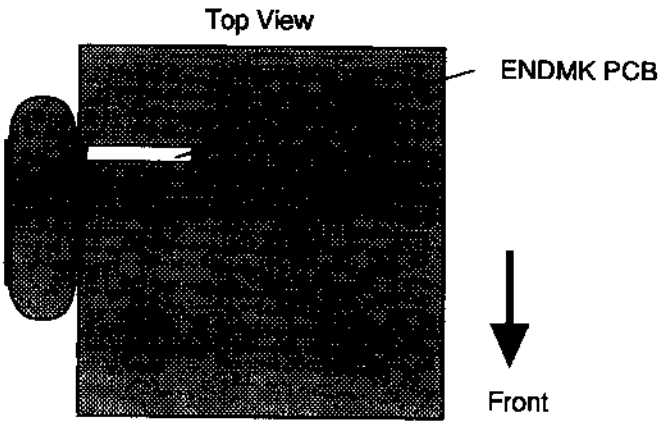
See CN32 on NCU PC Board in page 3-25.

CN39

See CN33 on NCU PC Board in page 3-26.

3.11 ENDMK PC Board (Only for Germany)

3.11.1 PCB Location



3.11.2 Connector Location on ENDMK PC Board

3.11.3 Pin Allignment

CN

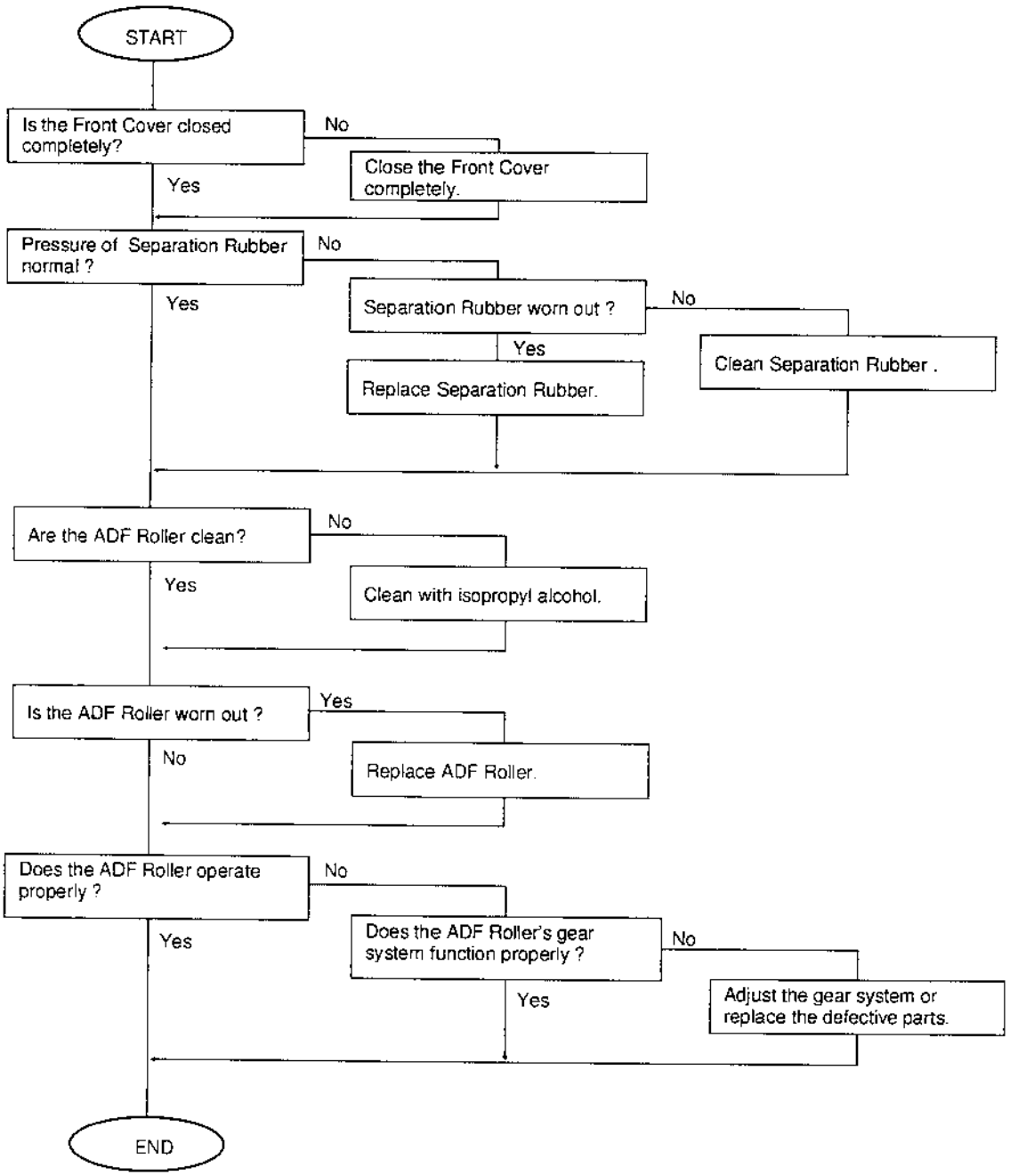
Pin No.	Signal Name	Signal Waveform	Destination	Function
1 IN	LEDA	Approx. +1.2V	SC PC Board CN19-1	Power Supply for LED
2	GND	0V	SC PC Board CN19-2	GND
3 OUT	pENDMK	Black Level White Leve Over 1V	SC PC Board CN19-3	End Mark Output Voltage White Level : Low Output Black Level : High Output

Chapter 4
Troubleshooting

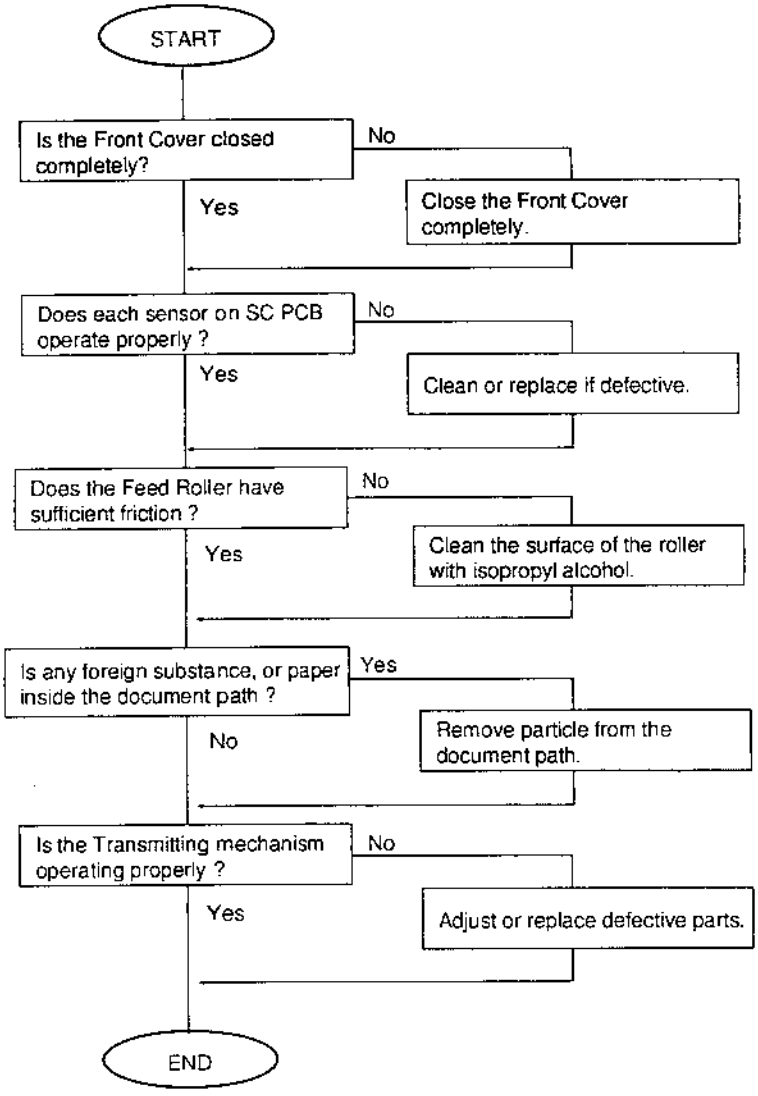
4.1 Troubleshooting of Mechanical Block

4.1.1 Improper Feeding

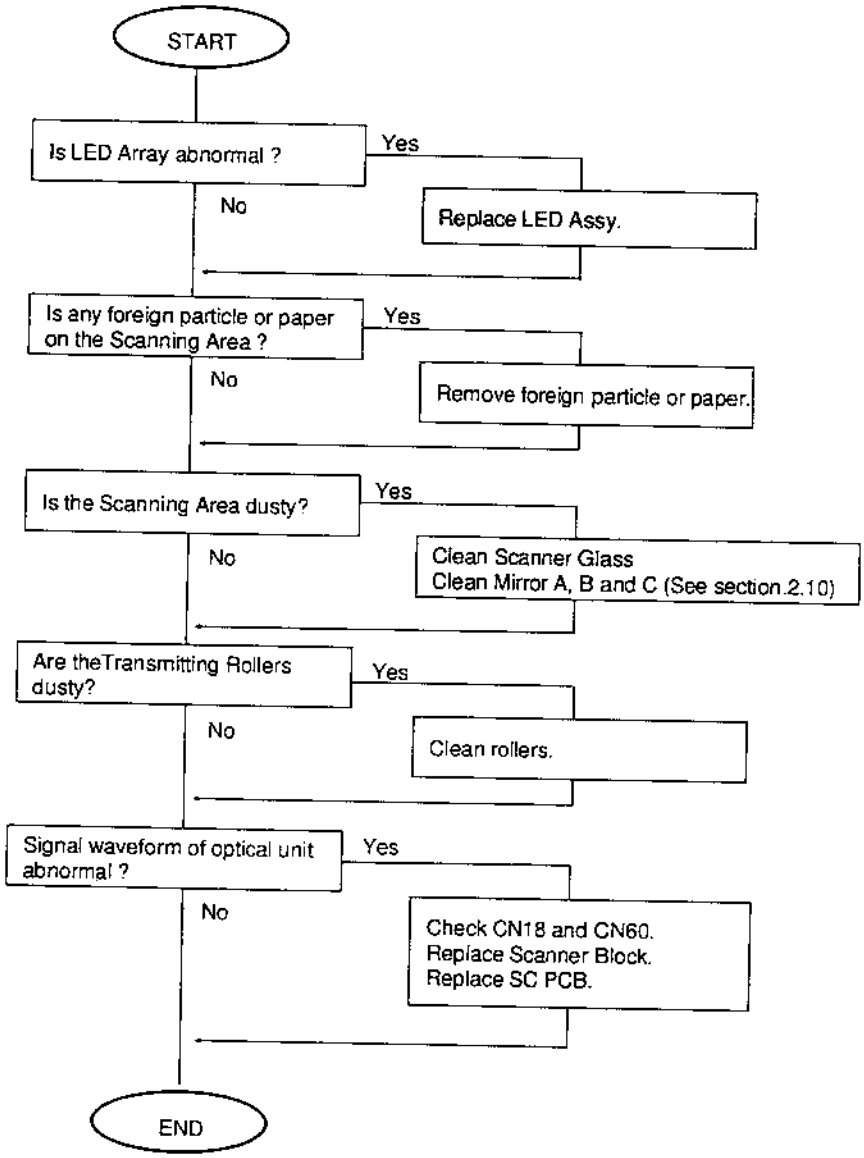
(Document does not feed or multiple feeds)



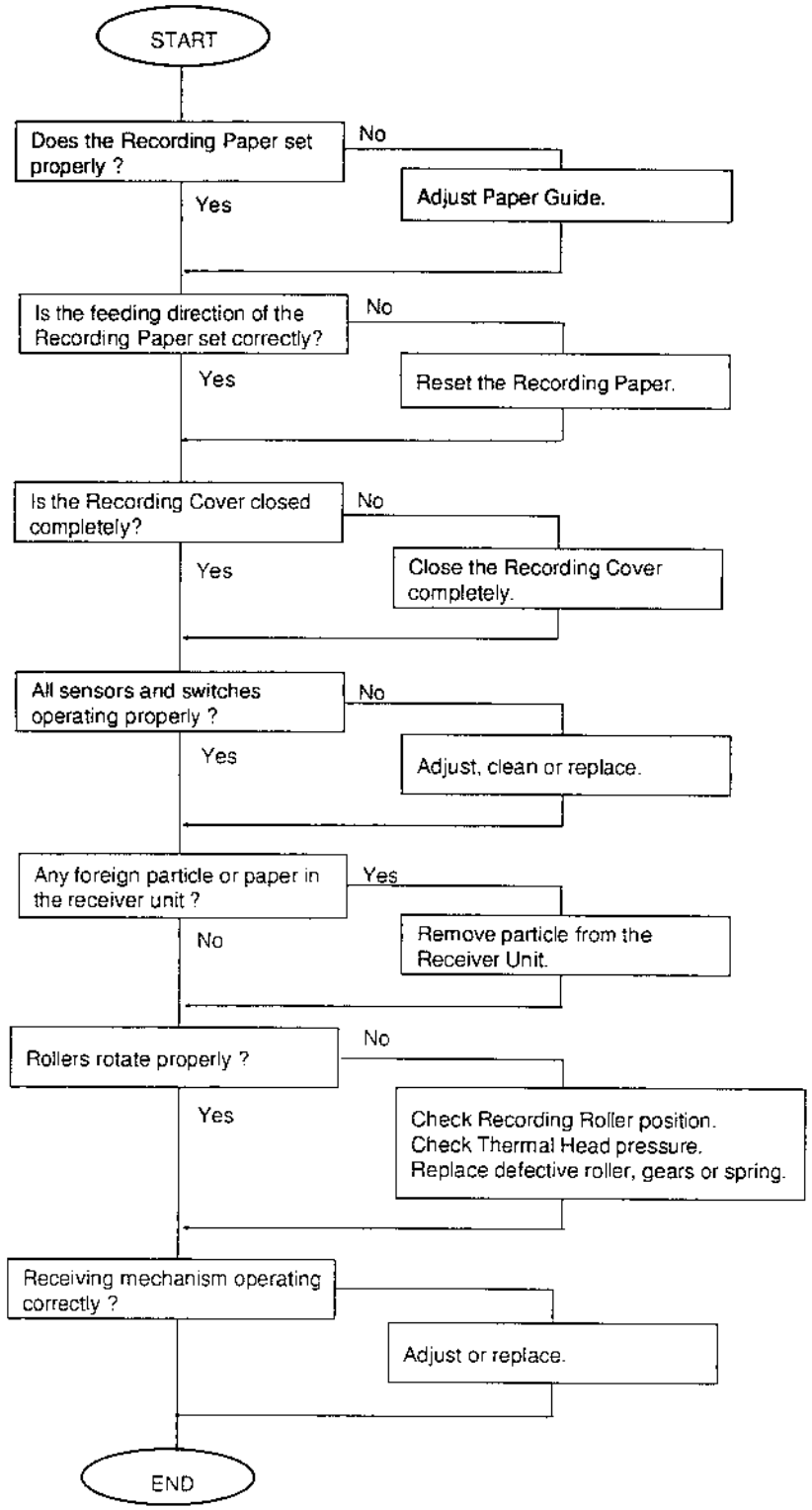
4.1.2 Document Jam or Skewing



4.1.3 Scanned Copy Quality Problems

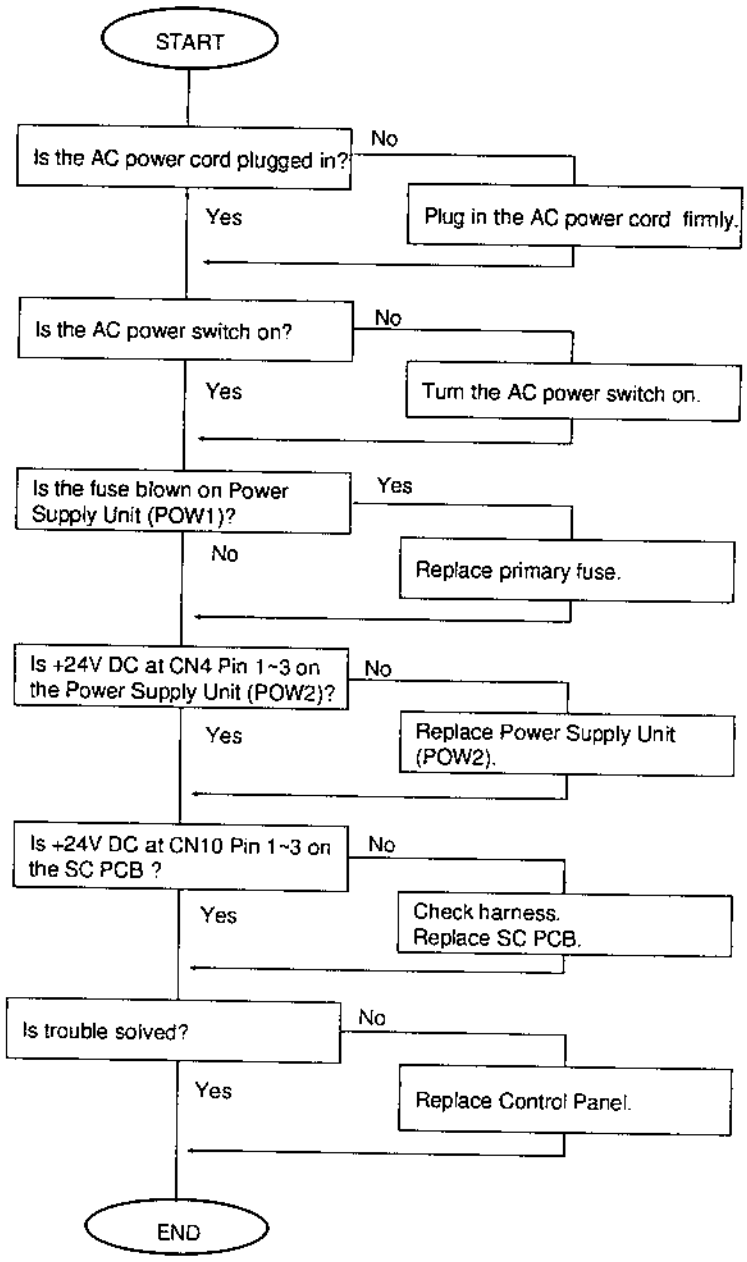


4.1.4 Printing Abnormal

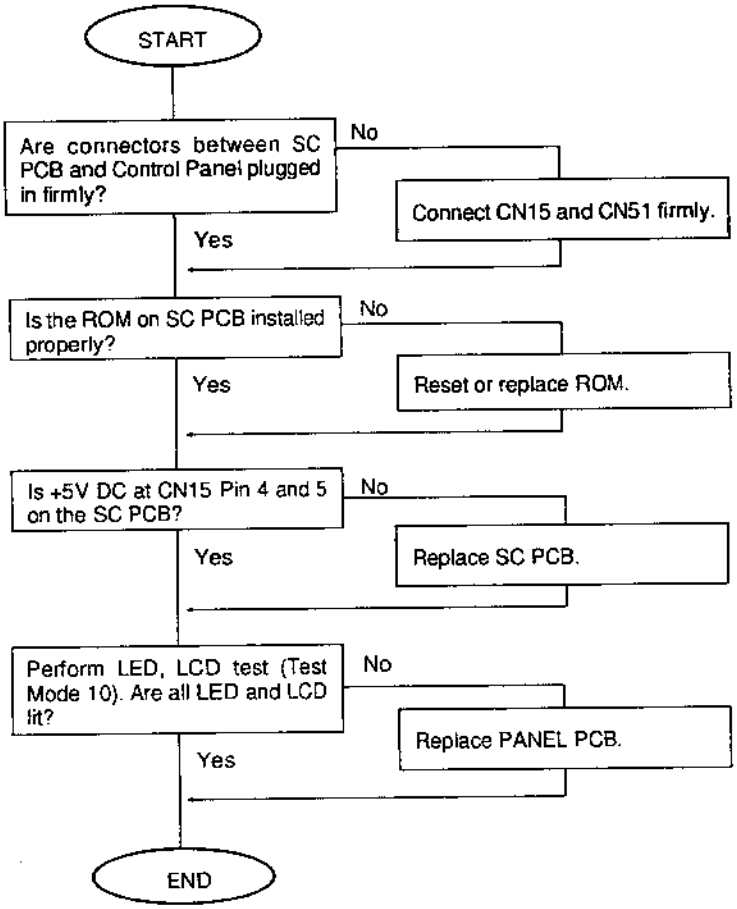


4.2 Troubleshooting of Electrical Block

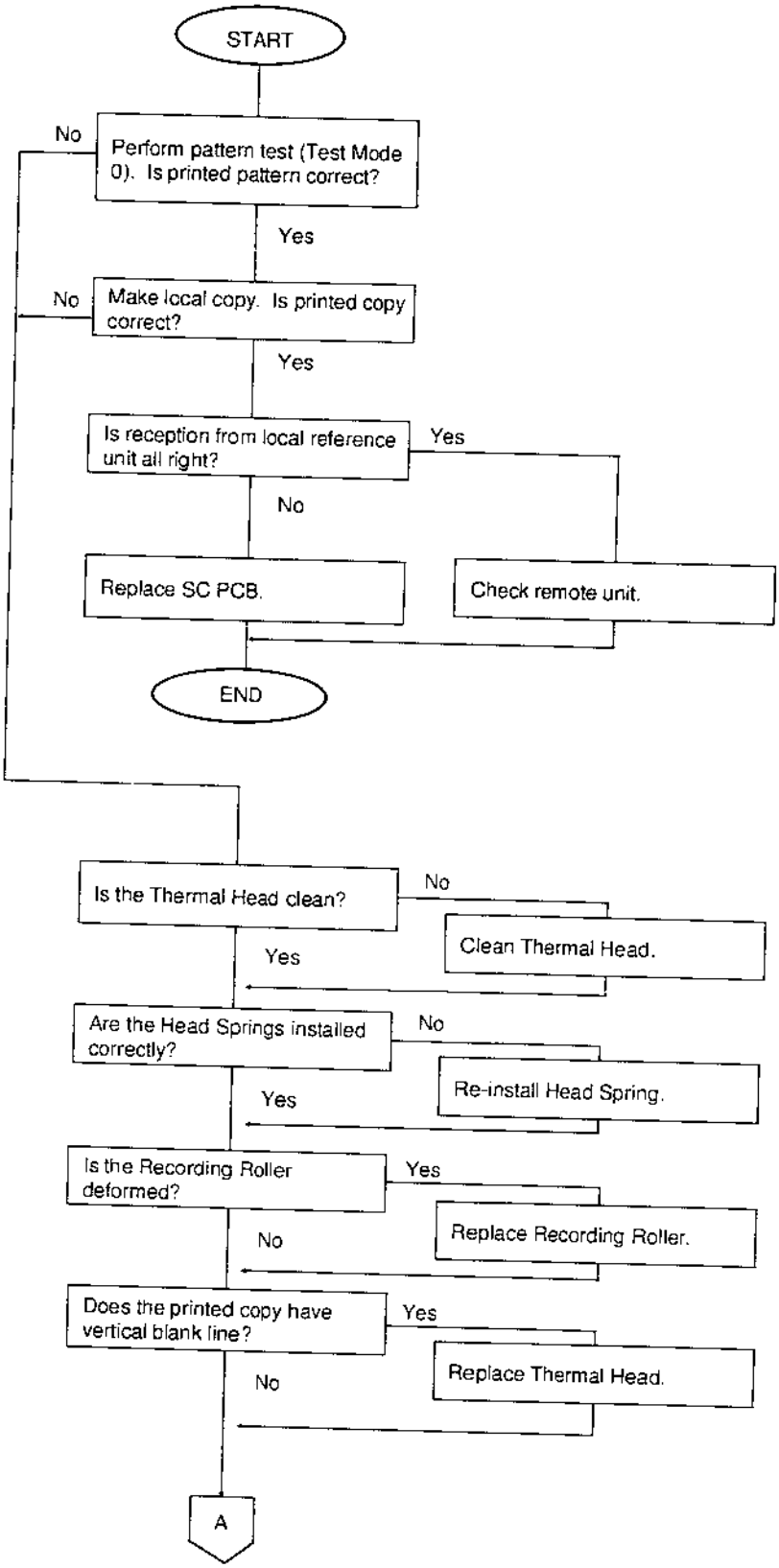
4.2.1 Power LED does not light.



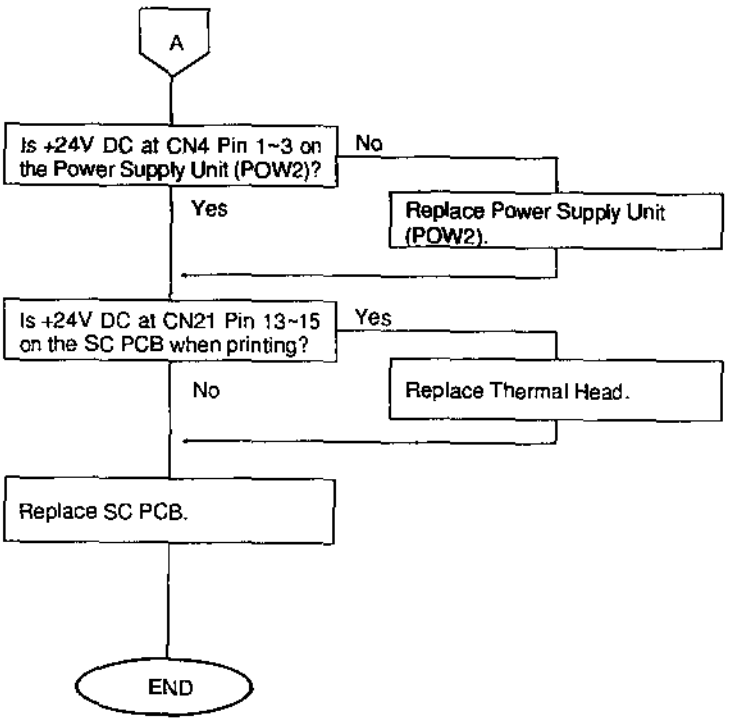
4.2.2 Control Panel Malfunction (1/2)



4.2.3 Printed Copy Quality Problems (1/2)

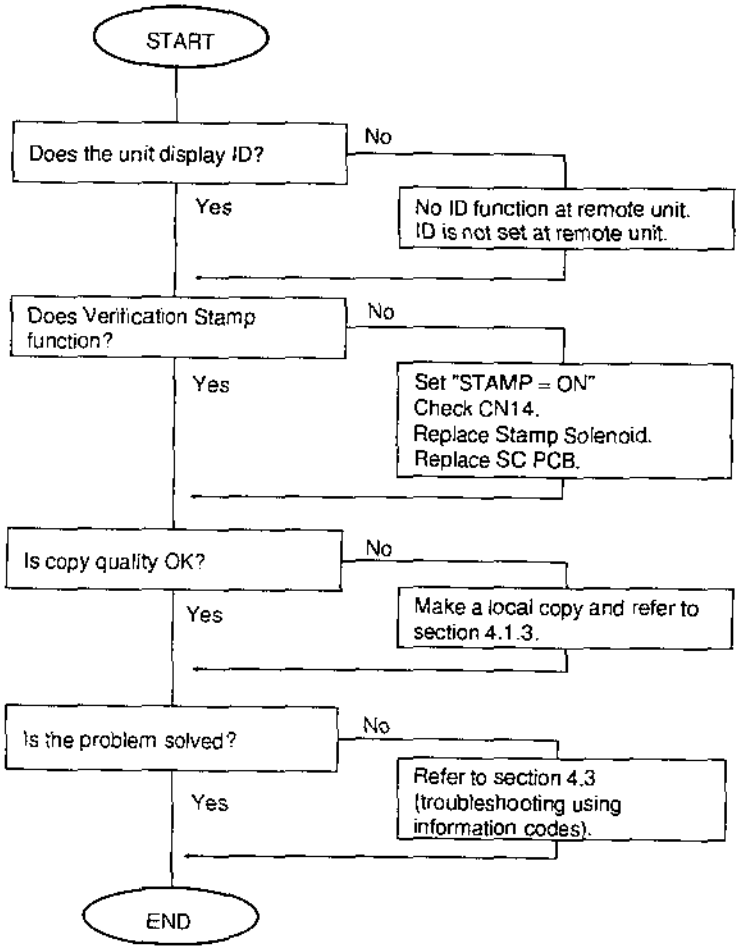


4.2.3 Printed Copy Quality Problems (2/2)

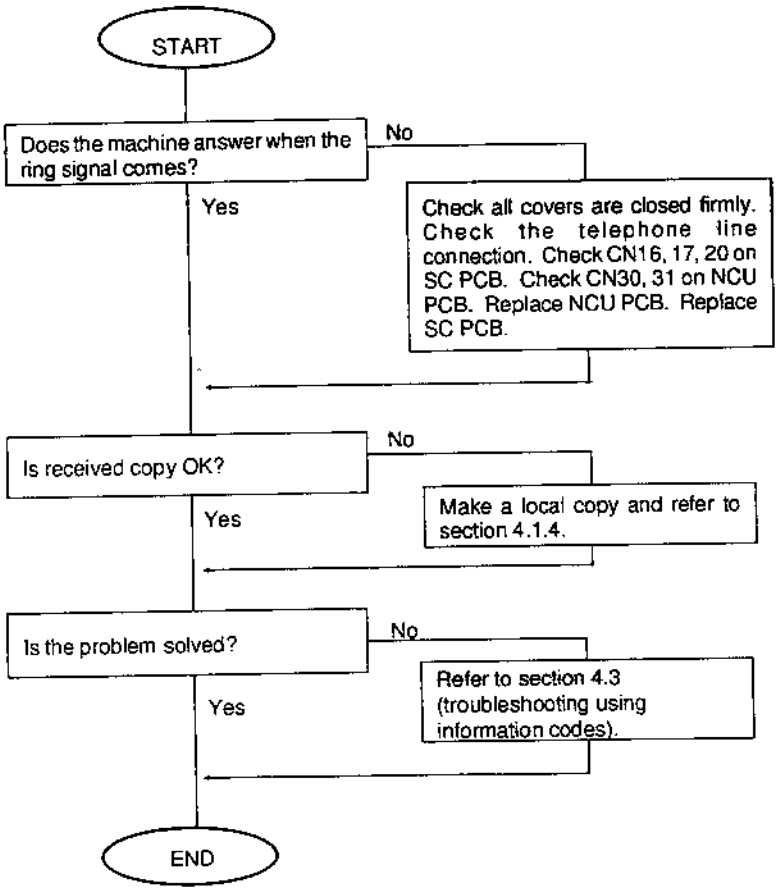


4.2.4 Communication Problems

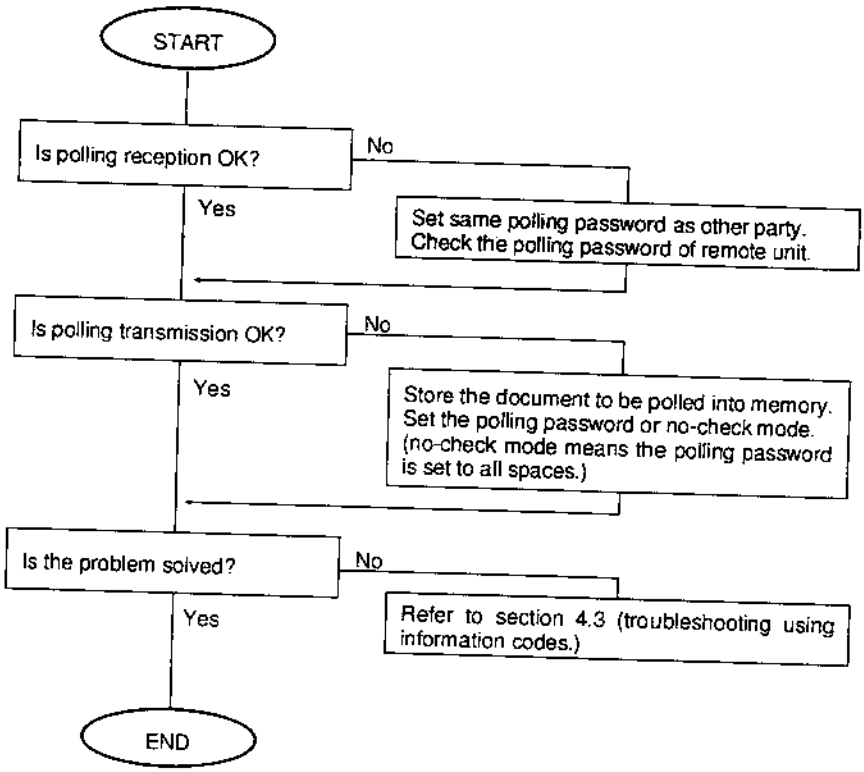
(1) Transmission



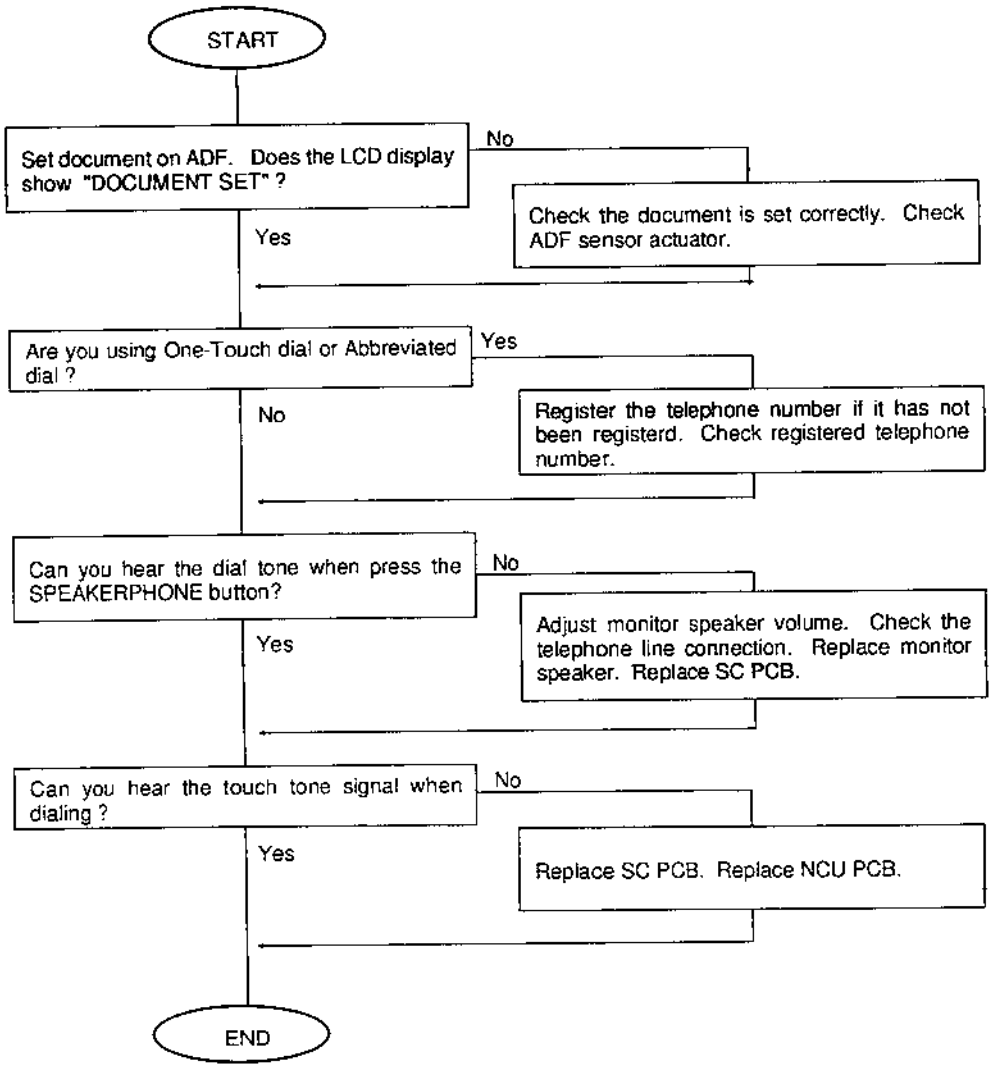
(2) Reception


START
Does the machine answer when the ring signal comes?
No
Yes
Check all covers are closed firmly. Check the telephone line connection. Check CN16, 17, 20 on SC PCB. Check CN30, 31 on NCU PCB. Replace NCU PCB. Replace SC PCB.
Is received copy OK?
No
Yes
Make a local copy and refer to section 4.1.4.
Is the problem solved?
No
Yes
Refer to section 4.3 (troubleshooting using information codes).
END

(3) Polling


START
Is polling reception OK?
No
Yes
Set same polling password as other party.
Check the polling password of remote unit.
Is polling transmission OK?
No
Yes
Store the document to be polled into memory.
Set the polling password or no-check mode.
(no-check mode means the polling password is set to all spaces.)
Is the problem solved?
No
Yes
Refer to section 4.3 (troubleshooting using information codes.)
END

4.2.5 Dialing Problems



4.3 Troubleshooting Information Codes

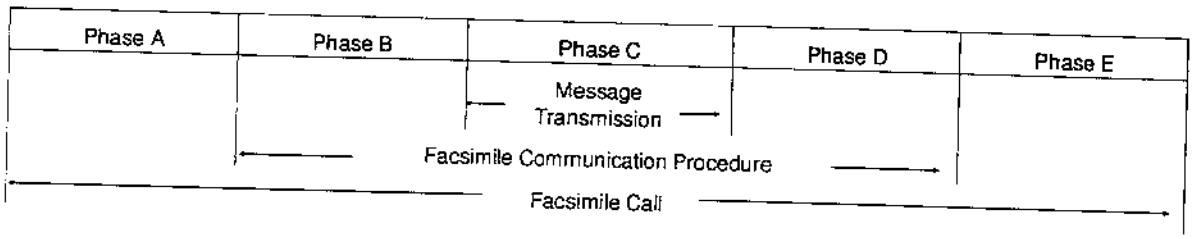
The 3-digit information code is displayed to show the units' status. This code is also printed on the journal. The relationship between information codes and corresponding chapters for troubleshooting are shown in the table below.

(1) Information Code

INFO Code	Chapter	Brief Trouble Explanation	Phase	INFO Code	Chapter	Brief Trouble Explanation	Phase
001	4.3.1	Recording paper jam		407	4.3.9	Transmission error	D
002	4.3.1	Recording paper jam		408	4.3.11	Transmission error	D
003	4.3.1	Recording paper jam		409	4.3.11	Transmission error	D
004	4.3.1	Recording paper jam		411	4.3.8	Polling reception error	B
010	4.3.2	No recording paper		414	4.3.8	Polling reception error	B
012	4.3.2	Received document too long	C	415	4.3.8	Remote side (mis-operation)	B
020	4.3.3	Thermal head overheat		416	4.3.12	Reception error	D
030	4.3.4	Document misfeeding	B	417	4.3.11	Reception error	C
031	4.3.4	Document too long	C	418	4.3.11	Reception error	C
032	4.3.4	Document too short		420	4.3.6	Reception error	B
060	4.3.5	RCV Door open		422	4.3.7	Transmission error	B
400	4.3.6	Transmission error	B	434	4.3.13	Signal noise level too high	B
401	4.3.7	Password mismatch	B	459	4.3.14	Reception error	C
402	4.3.7	Transmission error	B	490	4.3.11	Reception error	C
403	4.3.8	Polling reception error	B	494	4.3.14	Reception error	C
404	4.3.9	Transmission error	B	495	4.3.14	Reception error	C
405	4.3.9	Transmission error	B	630	4.3.16	Remote unit was busy	A
406	4.3.10	Selective reception error	B				

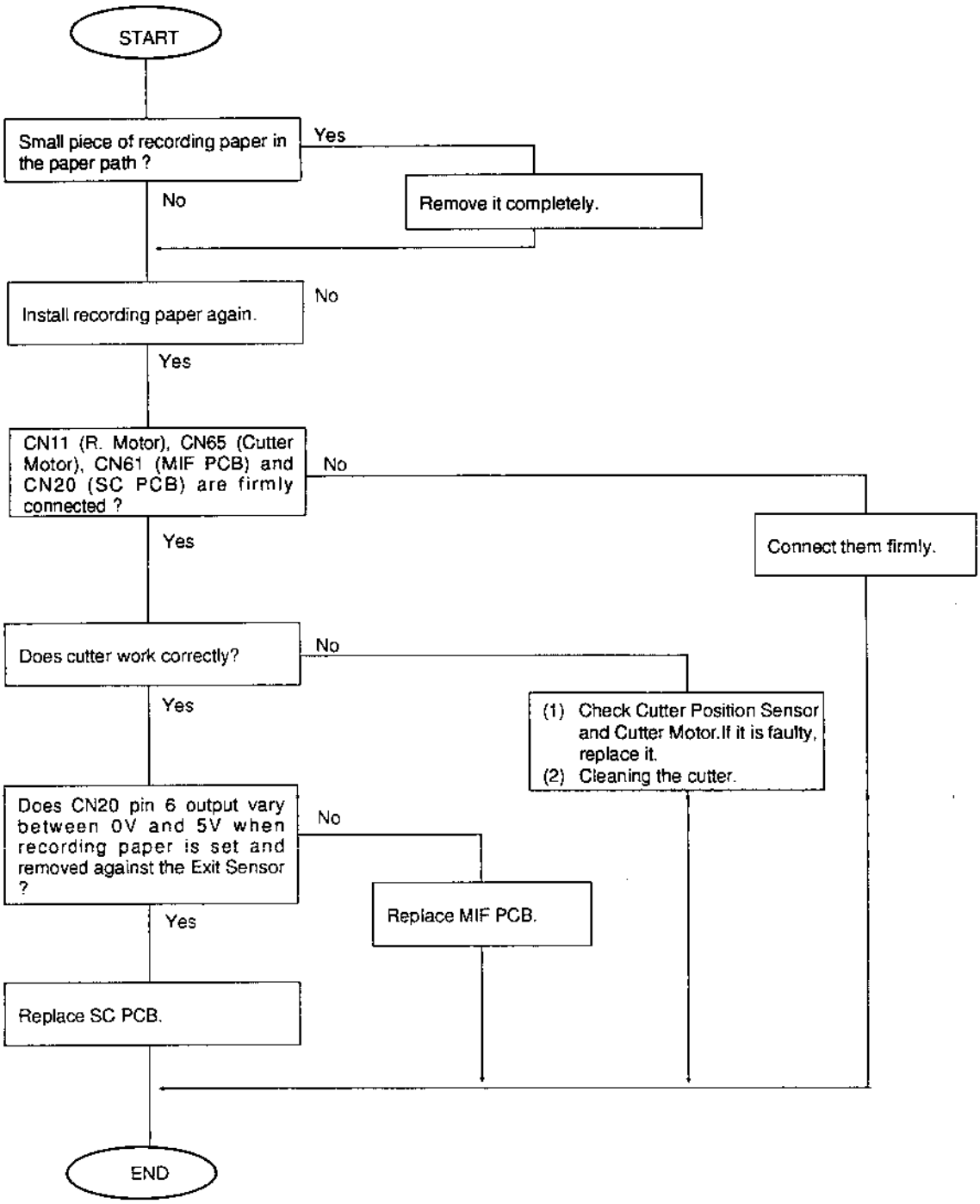
(2) Phase Explanation

Phase A Call establishment
Phase B Pre-message procedure

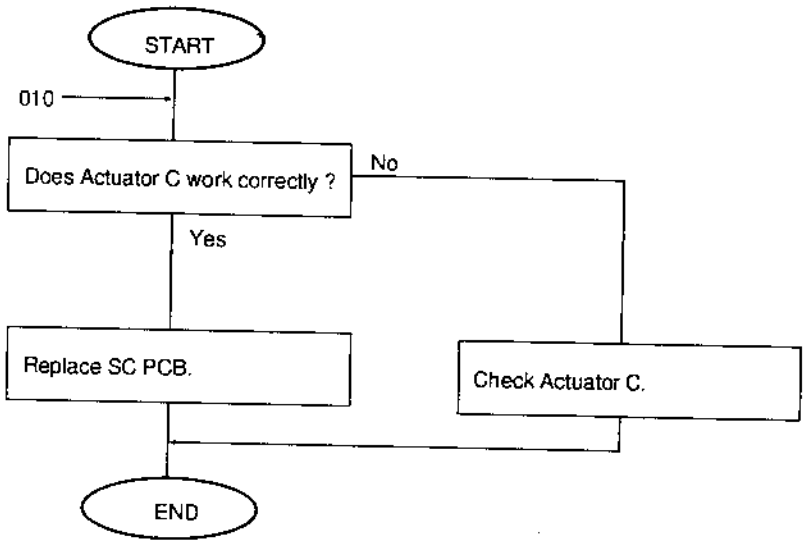


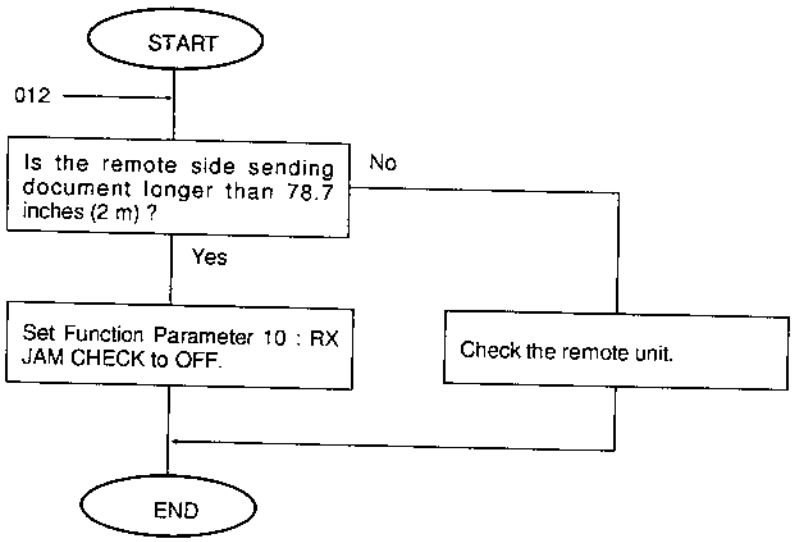
Phase C Message transmission
Phase D Post-message procedure
Phase E Call release

4.3.1 Information Code : 001, 002, 003, 004

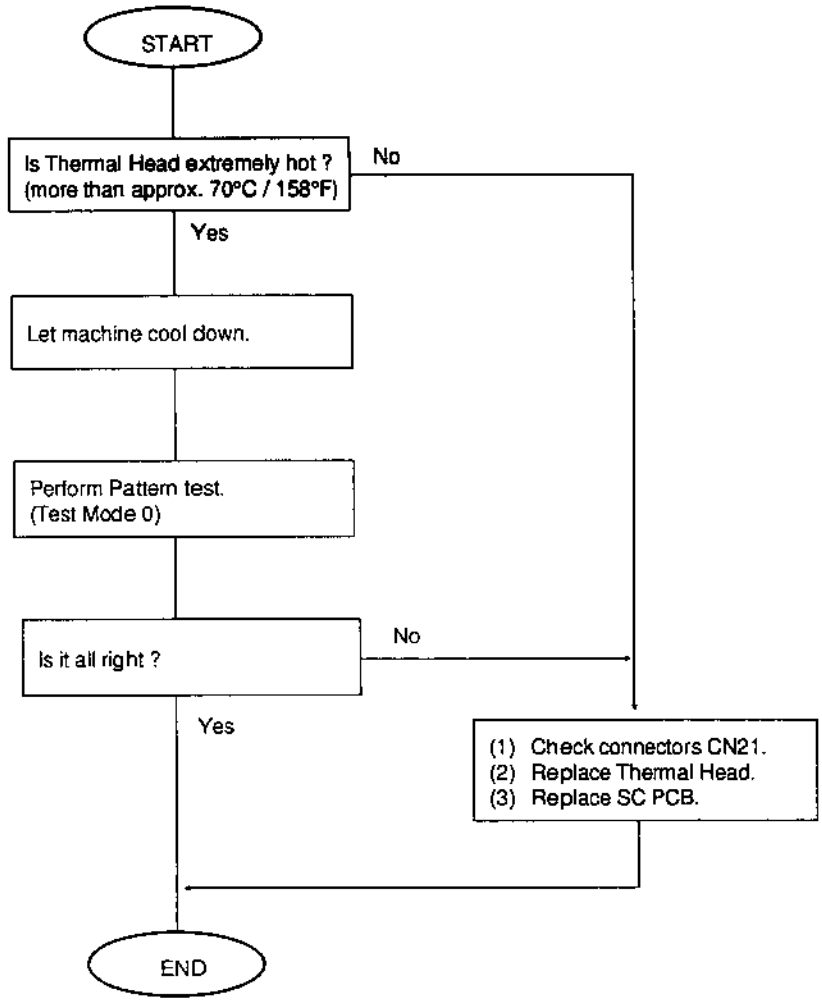


4.3.2 Information Code : 010, 012

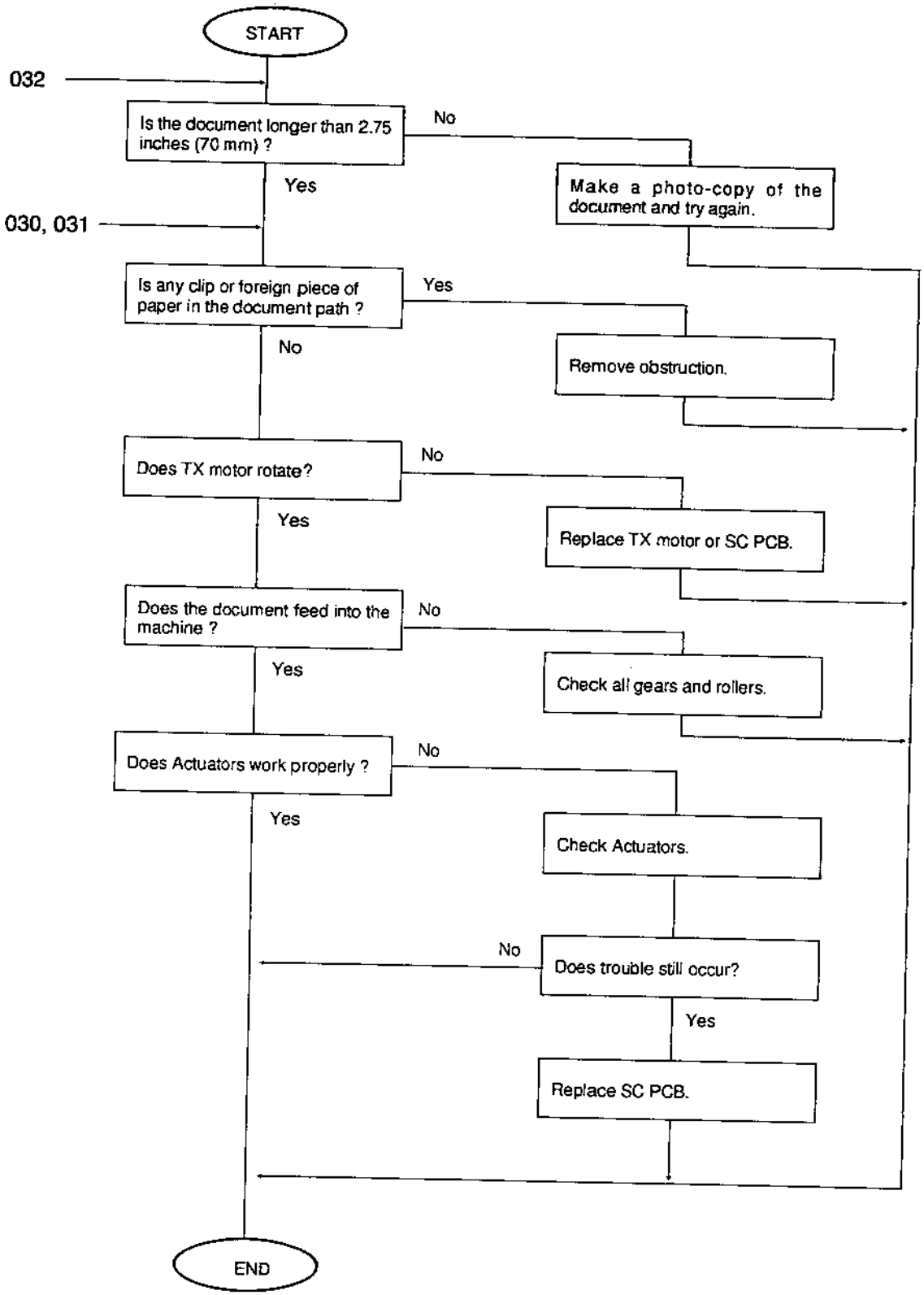




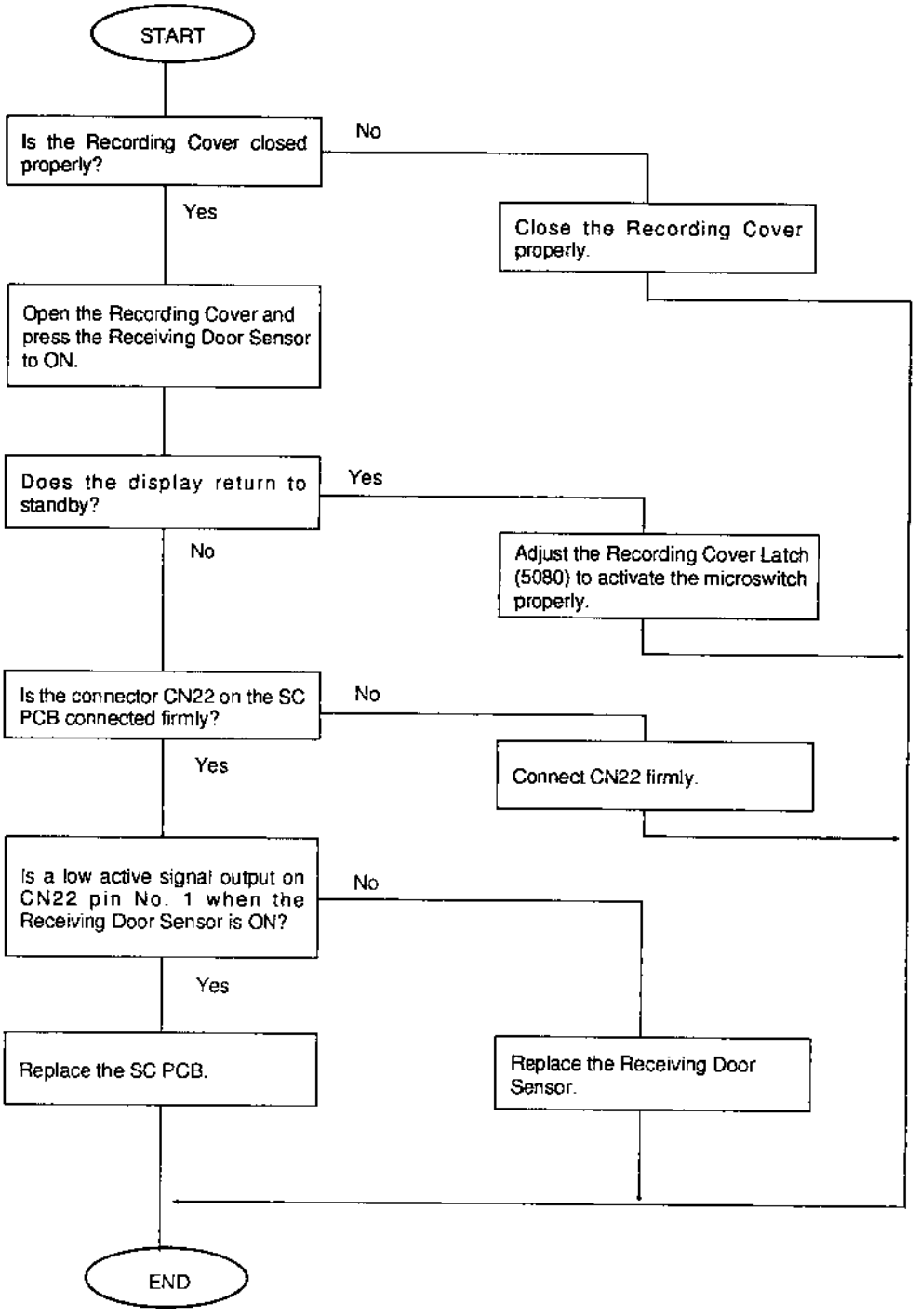
4.3.3 Information Code 020



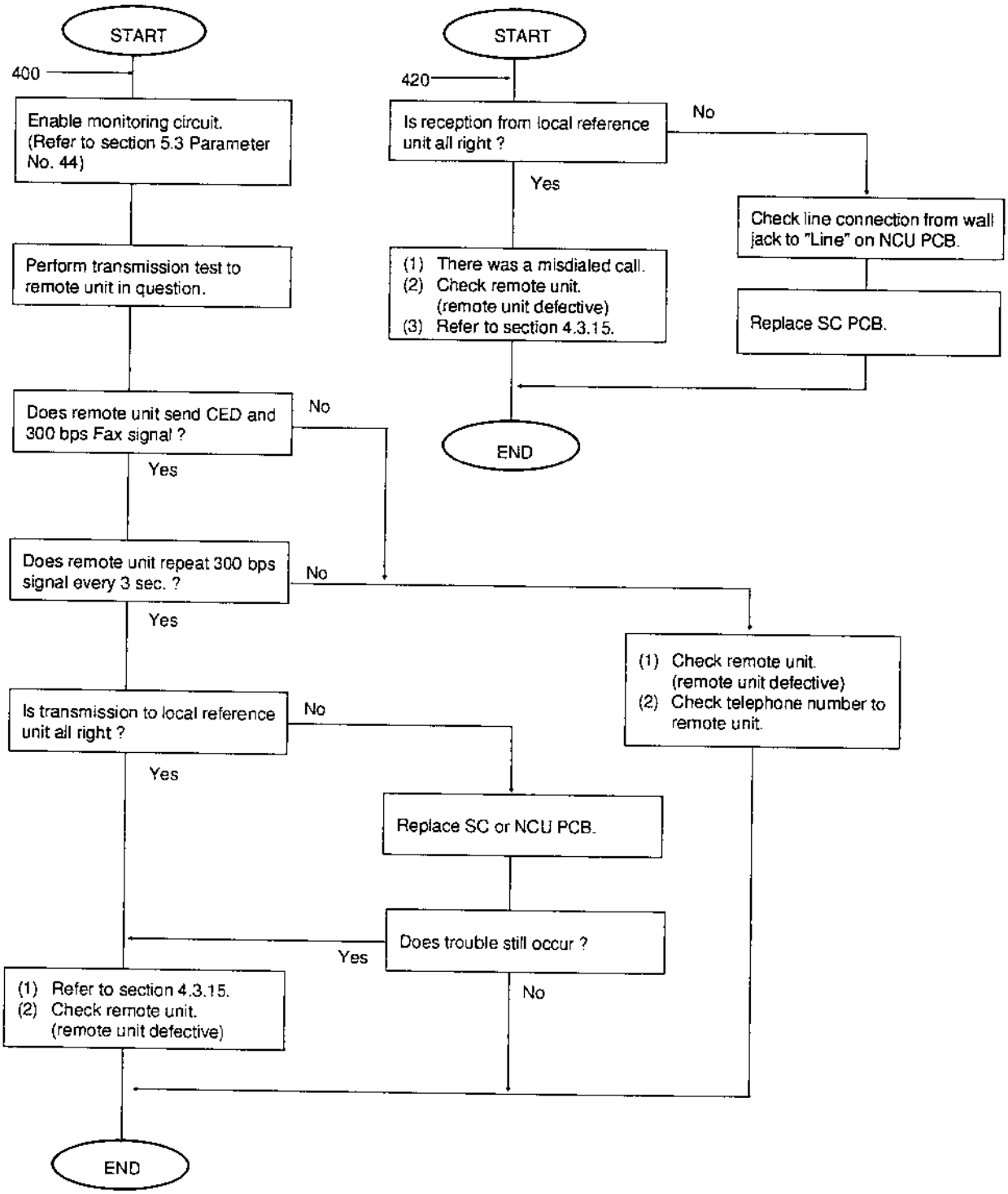
4.3.4 Information Code : 030, 031, 032 (Document Jam)



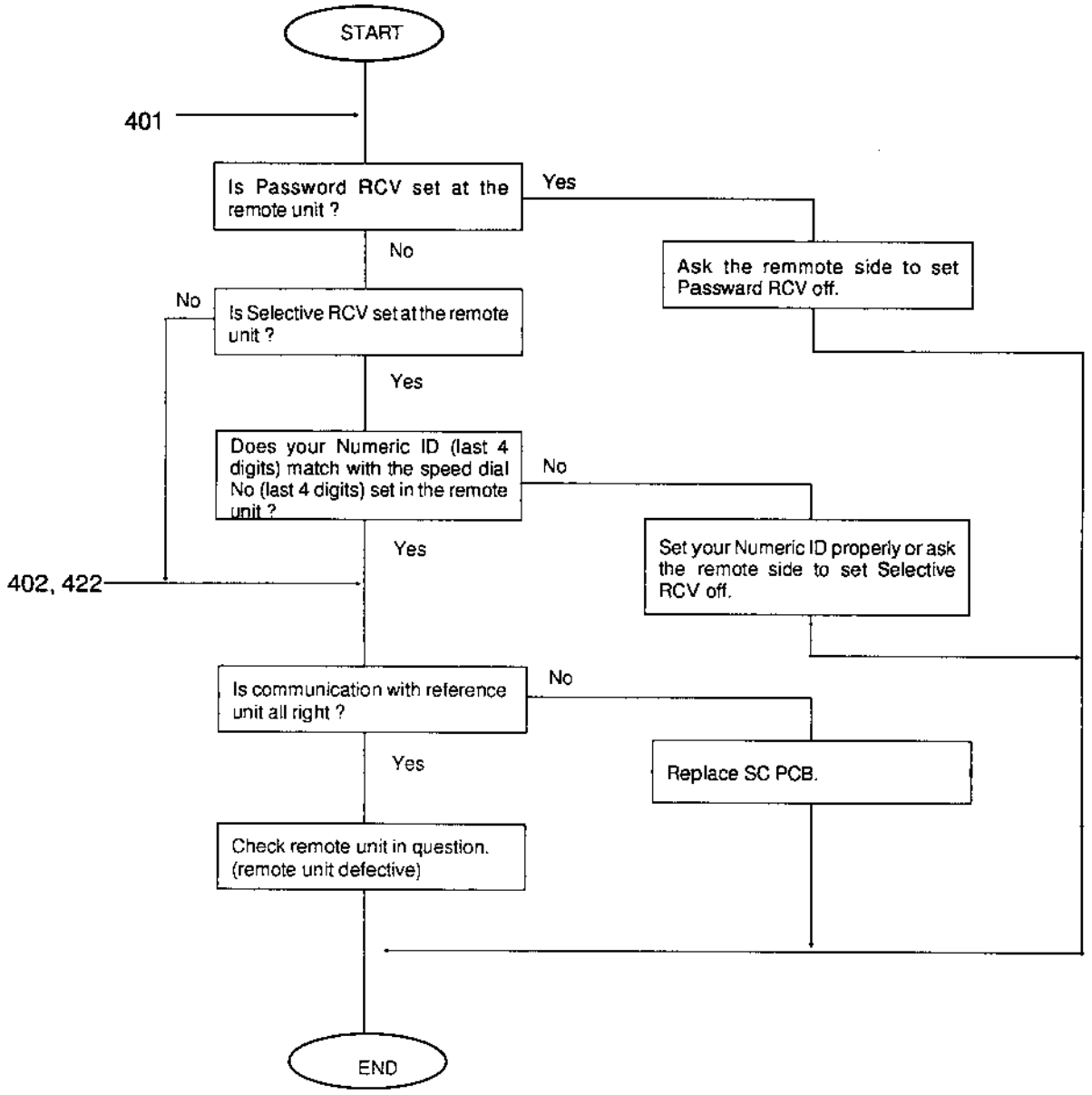
4.3.5 Information Code 060



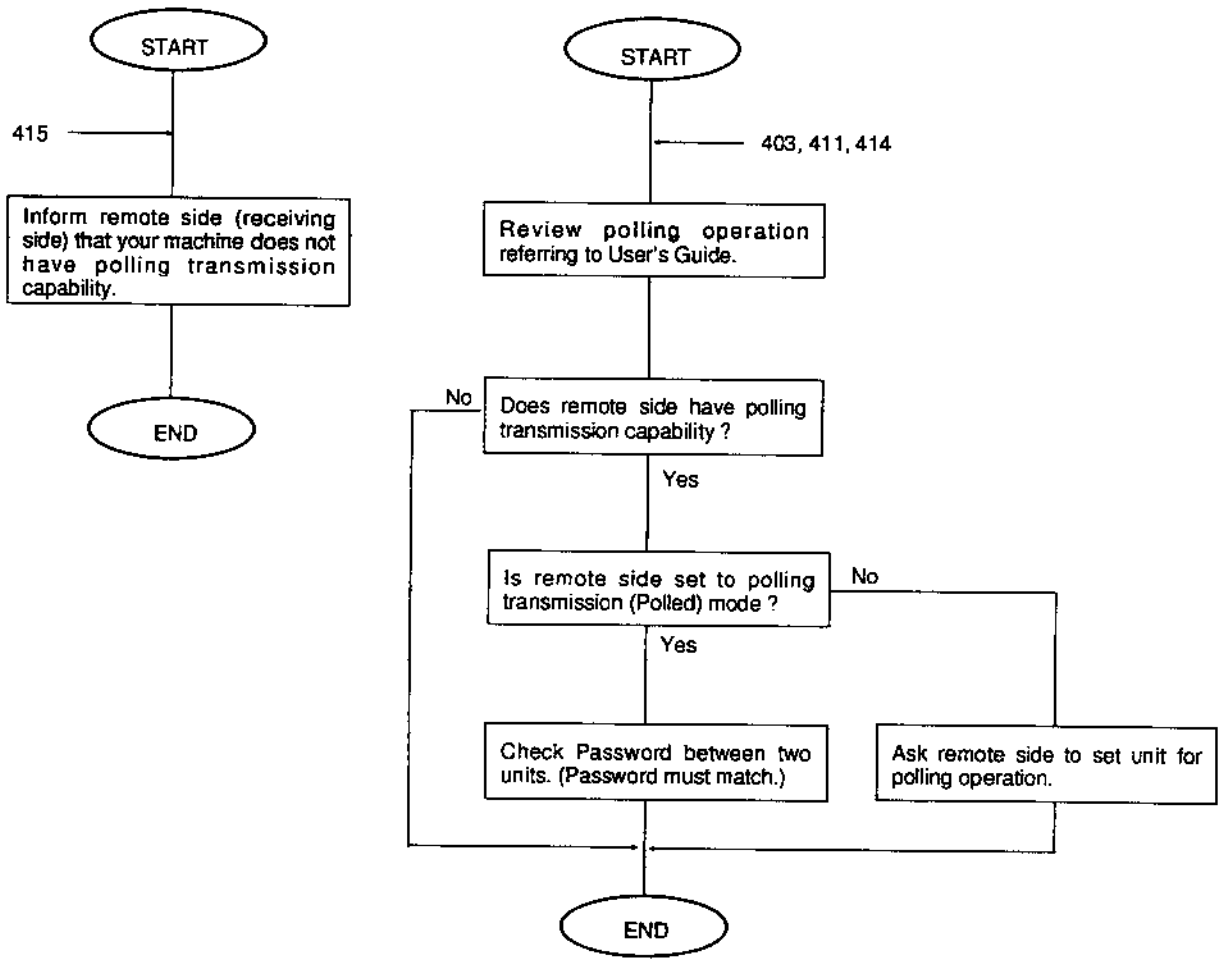
4.3.6 Information Code : 400, 420



4.3.7 Information Code 401, 402, 422

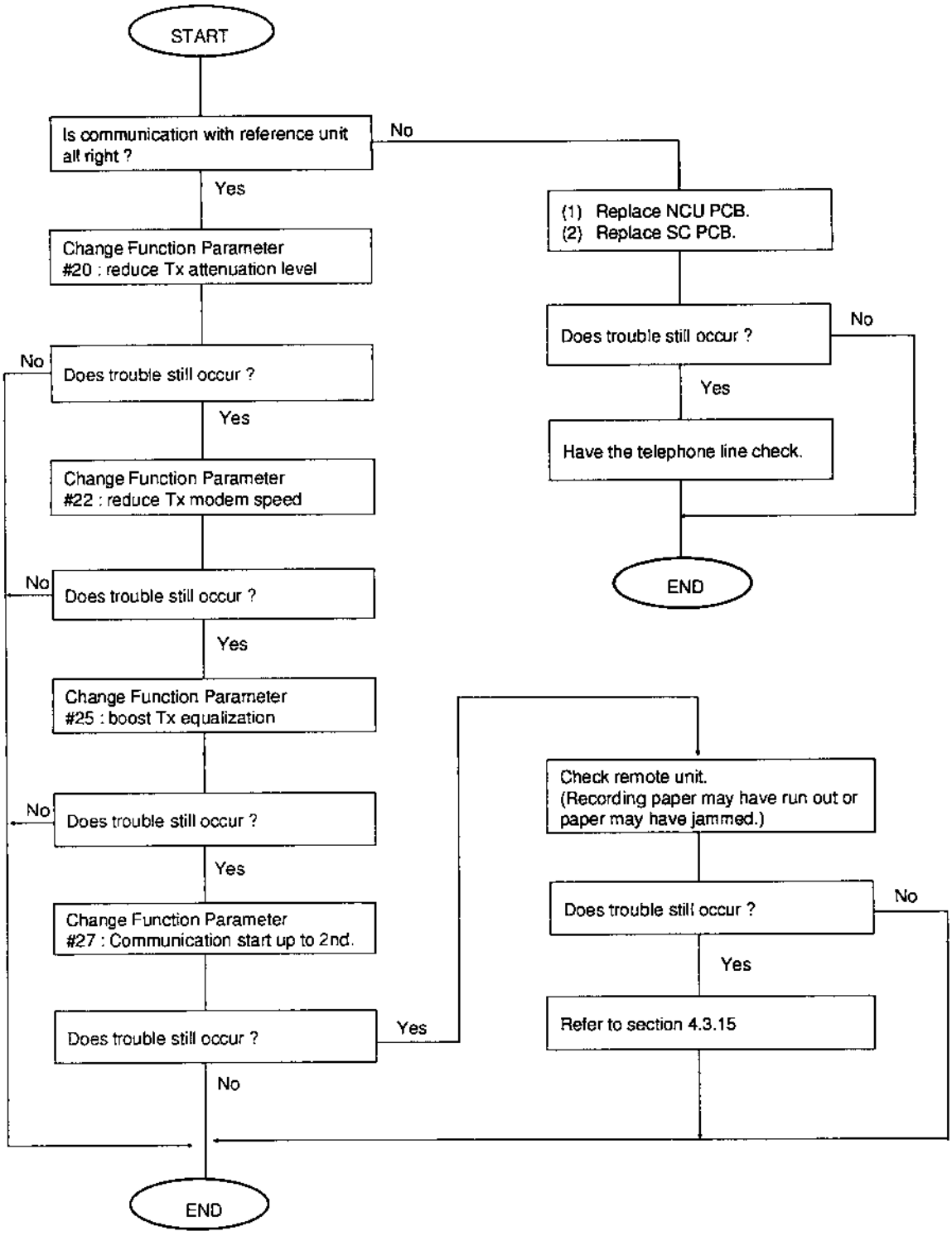


4.3.8 Information Code : 403, 411, 414, 415 (Polling Operation Trouble)

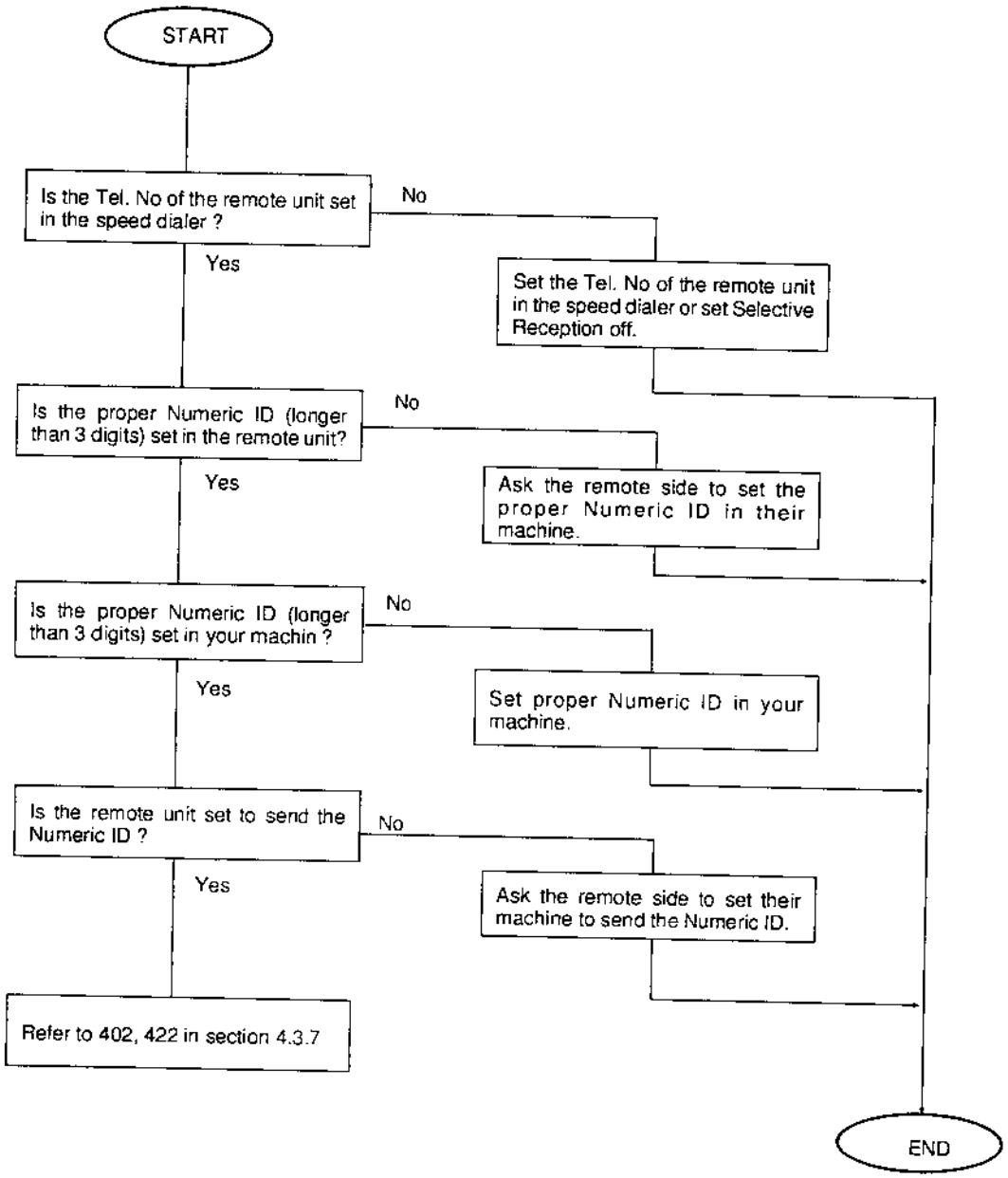


Polling communication with a 4-digit password is a Non ITU-T / C.C.I.T.T. Standard feature. If the manufacturer is different between the transmitter and receiver, polling communication with password may not be compatible.

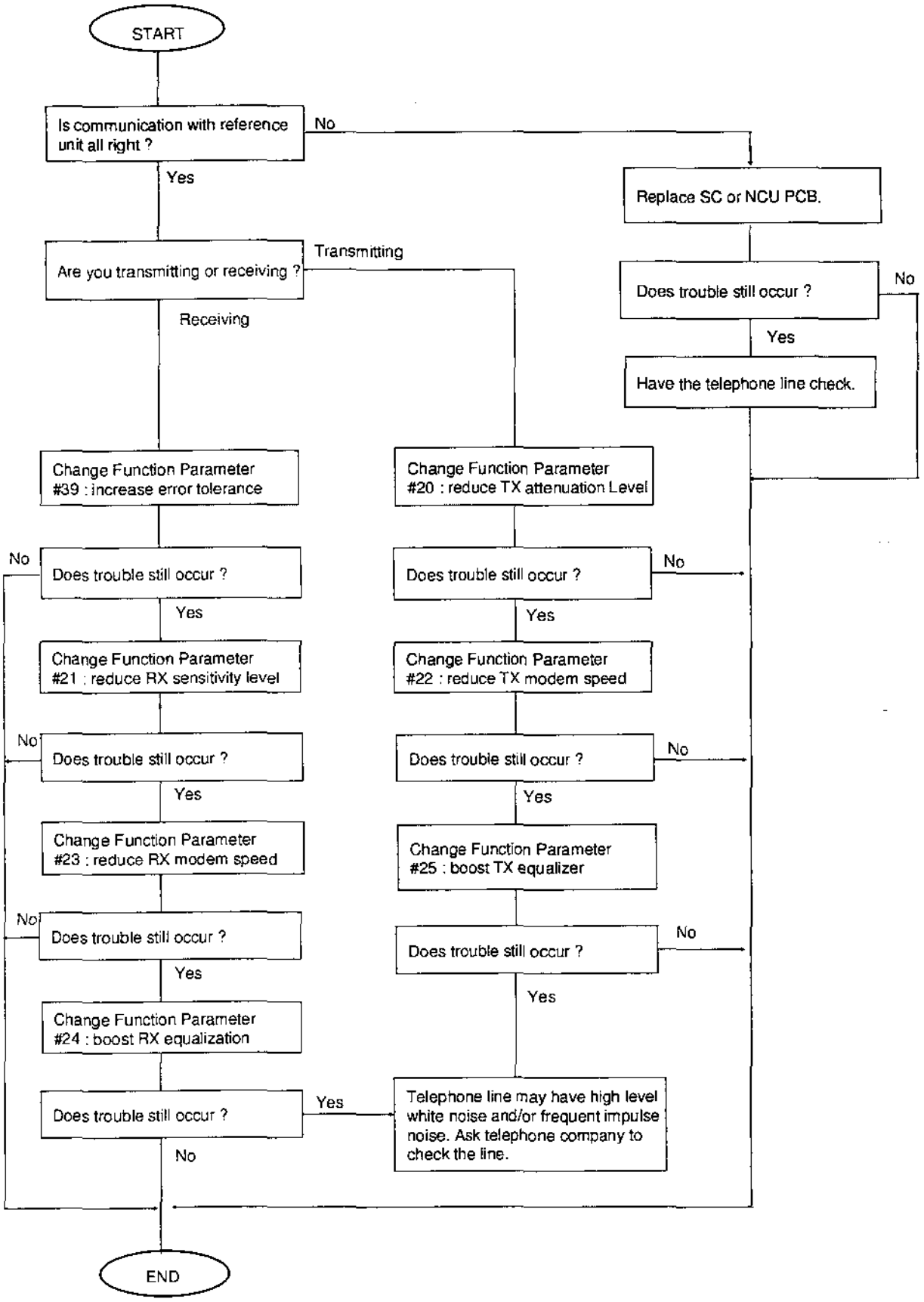
4.3.9 Information Code : 404, 405, 407



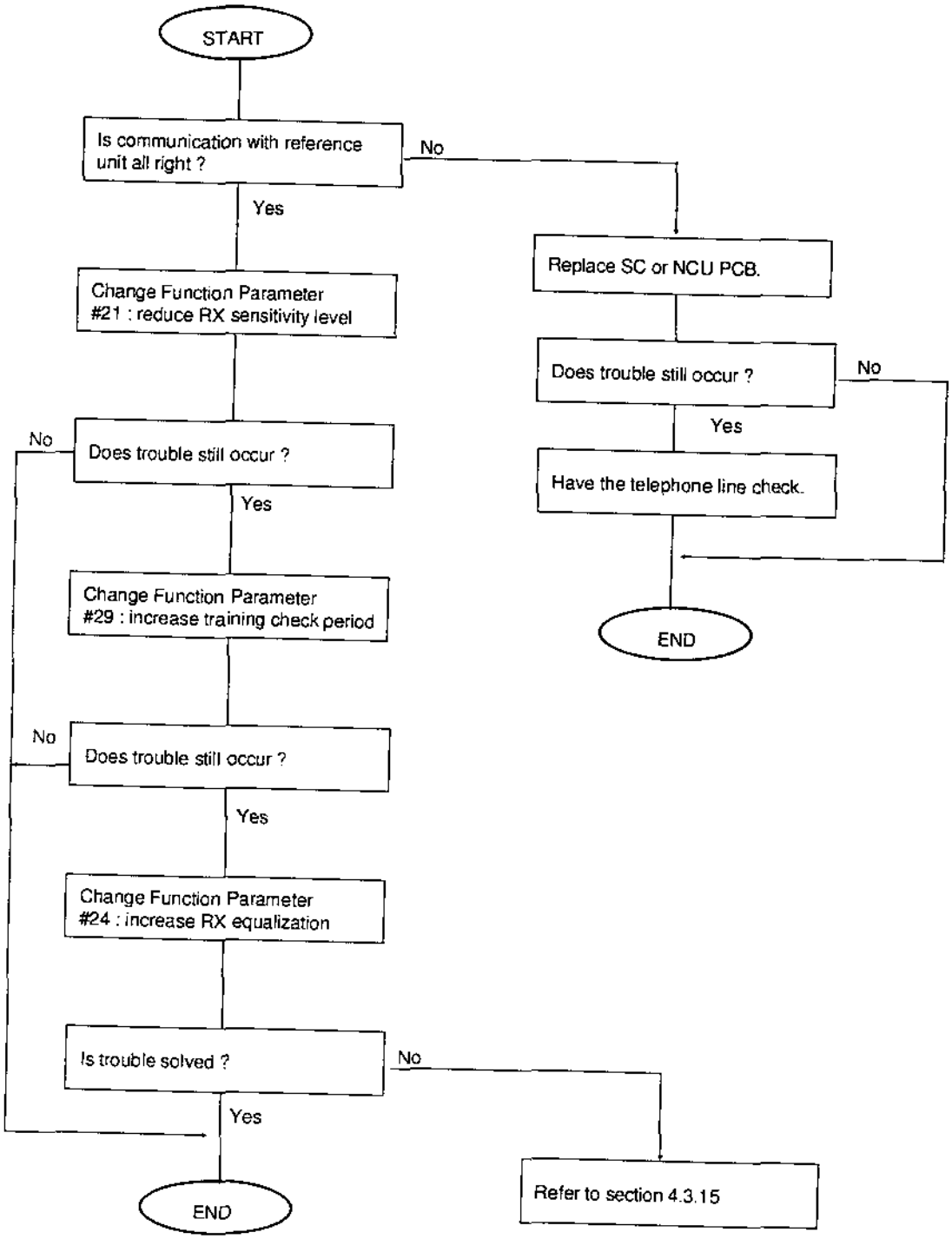
4.3.10 Information Code 406



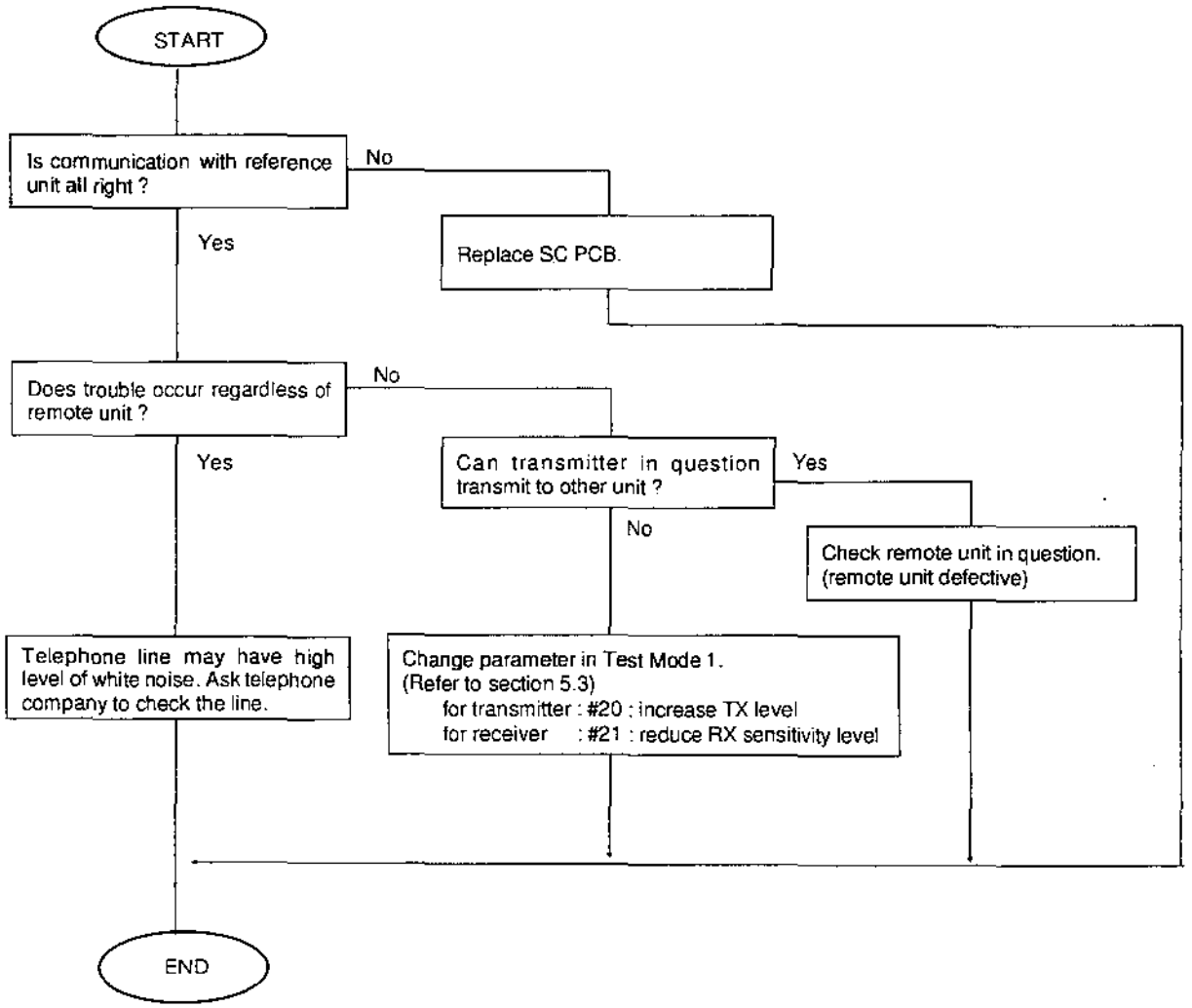
4.3.11 Information Code : 408, 409, 417, 418, 490



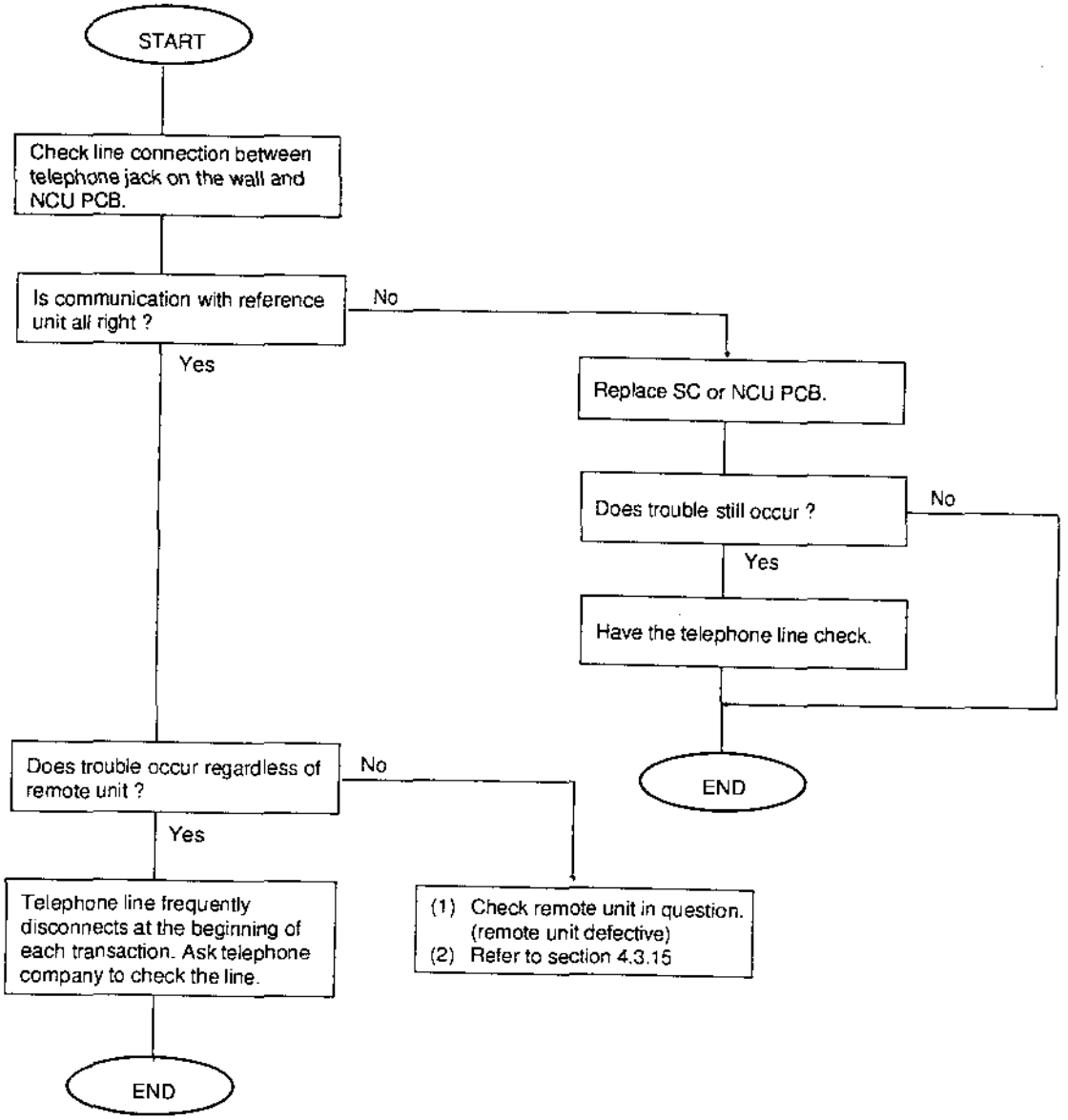
4.3.12 Information Code : 416



4.3.13 Information Code : 434

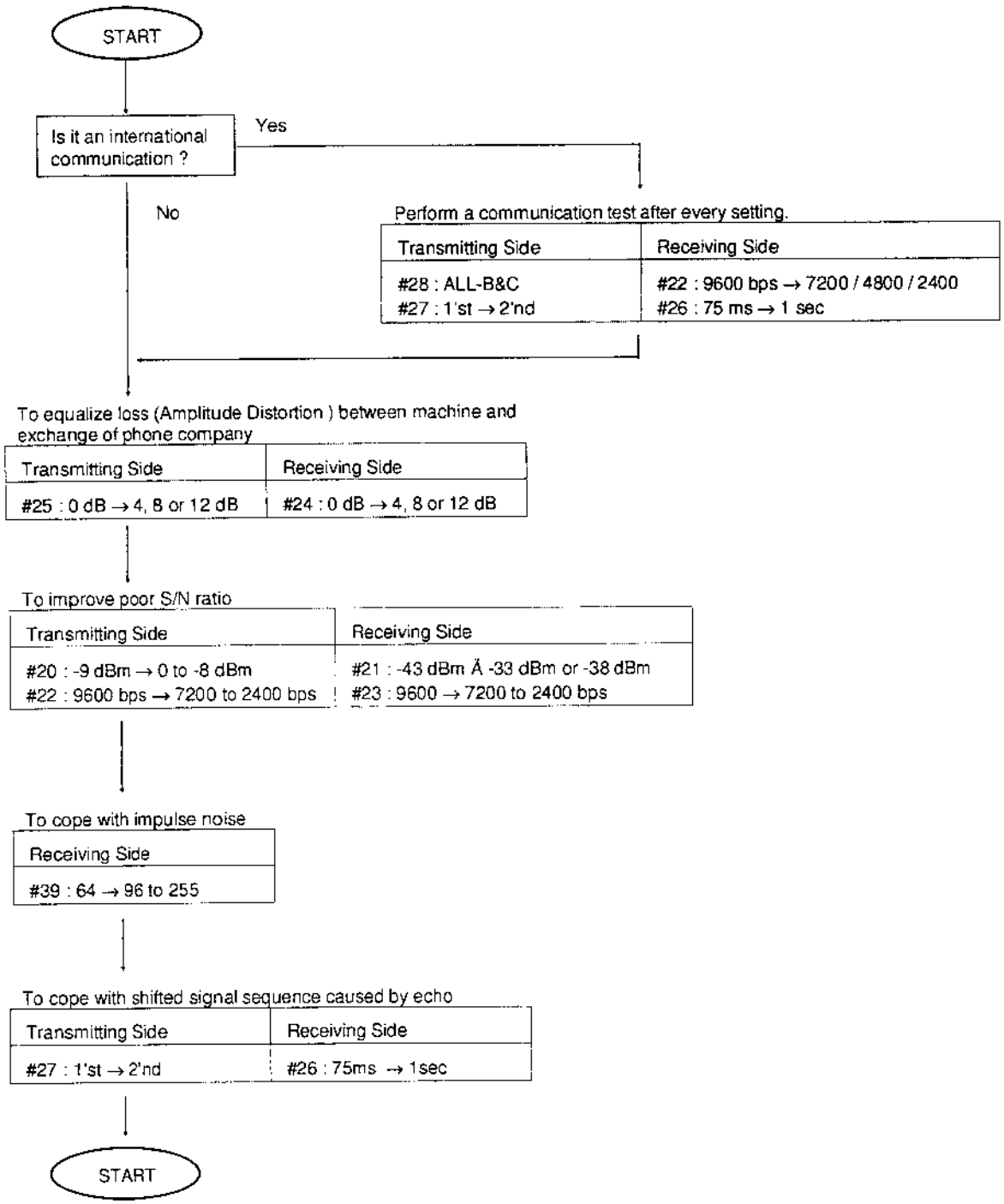


4.3.14 Information Code : 459, 494, 495

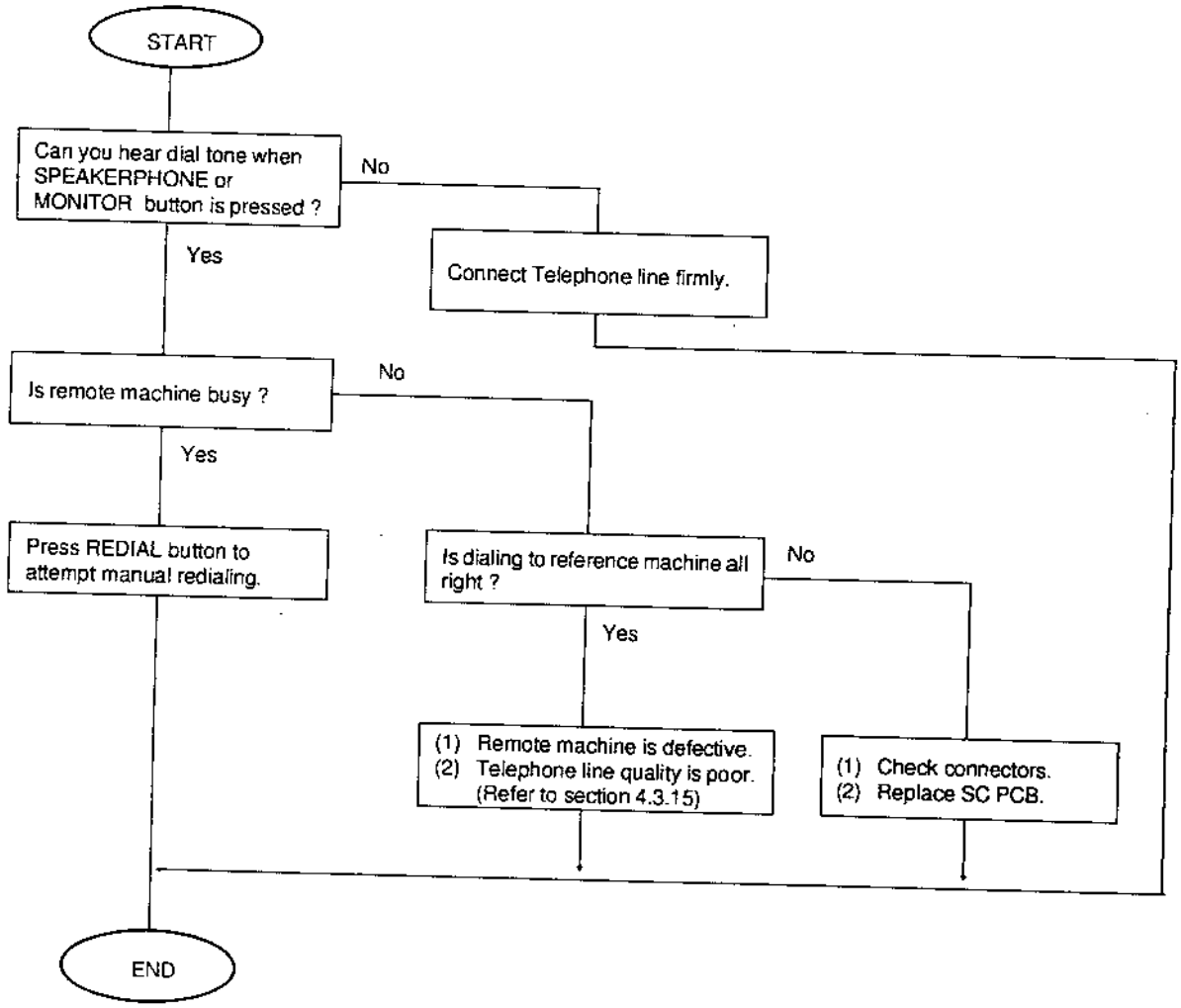


4.3.15 Communication Trouble

This section explains general trouble shooting procedures for the 400 series of Information Codes. The 400 error numbers are caused mostly by poor telephone line quality such as loss, noise, echo etc. This machine is furnished with Test Mode 1 to minimize problems caused by poor line quality. It is suggested that not only the transmitting machine but also the receiving machine be adjusted. This section gives relevant parameters in Test Mode 1 for both the transmitting and receiving side. Should no improvement be found after the parameters are adjusted, it is recommended that the parameters be set back to the default position.



4.3.16 Information Code : 630 (Dialing Error)



4.4 Information Code Table

Information Code Table (1/7)

Info. Code	Mode	Phase	Description of Problem	Cause
001	RCV COPY	-	Leading edge of the recording paper fails to reach the EXIT Sensor.	Recording Paper jam. Exit Sensor abnormal.
002	RCV COPY	-	Trailing edge of the recording paper fails to reach the Exit Sensor.	Recording Paper jam. Exit Sensor abnormal.
003	RCV COPY	-	Cutter did not move out of home position.	Recording Paper jam. Cutter Sensor abnormal.
004	RCV COPY	-	Cutter does not return to home position.	Recording paper jam. Cutter sensor abnormal.
010	RCV COPY	-	No recording paper	No recording paper or paper is not set properly. Paper Sensor is defective.
012	RCV (POLLING)	C D	The length of received document is too long.	The maximum received document length is 78.7 inches (2 m).
020	RX COPY	-	Thermal Head temperature is over 158°F (70 °C)	Thermal Head is defective. (due to abnormal Power Supply) Recording Paper jam
030	XMT	B	RP Sensor does not go On within 10 seconds after document starts feeding.	Document is not set properly. Defective RP Sensor or Actuator.
031	XMT COPY	C	Transmitting document was longer than 39.4 inches (1 m).	Document may get jammed. Defective RP Sensor or Actuator
032	XMT COPY	C	Transmitting document was shorter than 2.8 inches (70 mm).	Document may get jammed. Defective RP Sensor.
060	_	A	Recording Cover is open.	Cover is not firmly closed. Connectors are not firmly connected.
400	XMT	B	T1 timer (35 ± 5 sec.) elapsed without detecting 300 bps signals.	Wrong number is dialed and START button is pressed. Telephone line is disconnected in the course of dialing. SC PCB (Modem) or NCU is defective. Receiver is defective.

Information Code Table (2/7)

Info. Code	Mode	Phase	Description of Problem	Cause
401	XMT	B	DCN was returned from receiver when transmitter waits for CFR or FTT.	No available mailbox in the receiver. There is an incompatibility. (Ex.: Password Transmission)
402	XMT	B	DCN was returned from receiver when transmitter waits for NSF/DIS.	Receiver might work in non-CCITT mode only. There is incompatibility.
403	RCV (Polling)	B	Transmitter had no polling function.	"POLLED=ON" (polling XMT ready) is not set at transmitter. Document to be transmitted is not placed at transmitter.
404	XMT	B	Transmitter sent NSS (or DCS) followed by TCF three times but receiver did not respond. (CFR or FTT is usually returned.)	Receiver is defective.(Modem, NCU etc.) SC PCB (Modem) or NCU is defective. Receiver disconnects line during first NSS (or DCS) transmitted.
405	XMT	B	Transmitter received FTT after it transmitted TCF at 2400bps. Received RTN after communicating at 2400bps.	Line quality is poor. (TCF is damaged due to line noise.) Receiver is defective.(Modem, NCU etc.) SC PCB (Modem) or NCU is defective.
406	RCV (Password Comm.)	B	XMT-Password mismatched. RCV-Password mismatched. Selective RCV incomplete.	XMT, RCV password does not match. Last 4-digit of TSI does not match with the Last 4- digit of ONE-TOUCH, ABBR Telephone number.
407	XMT	D	Transmitter received no response after it transmitted post message such as EOP, MPS, EOM and so on. Or received DCN.	Receiver is defective. (No paper, paper jamming etc.) Receiver ceased receiving because of excessive error. (Line quality is poor.) SC PCB (Modem) or NCU is defective.
408	XMT	D	Transmitter received RTN after it transmitted EOP, MPS or EOM.	Receiver receives data with error. (Line quality is poor.) Receiver is defective.(Modem, NCU etc.) SC PCB (Modem) or NCU is defective.

Information Code Table (3/7)

Info. Code	Mode	Phase	Description of Problem	Cause
409	XMT	D	Transmitter receives PIN after it transmitted a post message such as EOP, MPS, EOM etc.	Receiver receives data with error due to poor line quality, and receiving operator requests voice contact. Receiver is defective (Modem, NCU etc.). SC PCB(Modem) or NCU is defective.
411	RCV (polling)	B	Received DCN after transmitting NSC.	Transmitter is not ready for polling communication. Password does not match between transmitter and receiver.
412	RCV	B D	No response within 12 seconds in NSS/DCS/MPS wait state. (After transmitting FTT, MCF or CFR)	Transmitter is defective. SC PCB is defective.
414	RCV (polling)	B	No response received after transmitting 3rd NSC.	Password does not match between transmitter and receiver. Transmitter is defective.(no document, document jam etc.)
415	RX (polling)	B	Remote side attempted to receive message from your machine in polling communication. "Inform remote side that your machine does not have the polling transmission feature."	There is incompatibility. Key Code does not match between transmitter and receiver.
416	RCV	D	Receiver did not detect post command such as EOP etc.	Transmitter is defective. Line quality is poor.(RTC signal is distorted due to line noise.) SC PCB (Modem) or NCU is defective.
417	RCV	D	Receiver returned RTN in response to post message.	Line quality is poor. (There are excessive errors in receiving data.) SC PCB (Modem) or NCU is defective.
418	RCV	D	Receiver transmitted PIN in response to PRI-Q from transmitter. (Transmitting operator requests voice contact.)	Line quality is poor. (There are excessive errors in receiving data.) SC PCB (Modem) or NCU is defective.

Information Code Table (4/7)

Info. Code	Mode	Phase	Description of Problem	Cause
419	RCV	D	Receiver transmitted PIN in response to Post Message from transmitter. (Transmitting operator requests voice contact.)	Line quality is poor. (There are excessive errors in receiving data.) SC PCB (Modem) or NCU is defective.
420	RCV	B	T1 timer (35 sec.) elapsed without detecting 300 bps signal.	There is a wrong incoming call. (no facsimile communication.) Transmitter is defective. SC PCB (Modem) or NCU is defective.
421	RCV	B	T1 timer (35 sec.) elapsed without detecting 300 bps signal, after receiver receives EOM (End of Message).	Transmitter is defective. SC PCB (Modem) or NCU is defective. Line quality is poor.
422	XMT	B	Received invalid NSF/DIS, NSC/DIC.	Remote unit is defective. SC PCB (Modem) or NCU is defective.
428	RCV	B	Received DCN while waiting DCS.	Transmitter is defective or incompatible. Passwords mismatch.
430	300 bps XMT	B	CS does not go ON within 30 seconds after RS is ON.	SC PCB (Modem) is defective.
431	RCV	B C	DCD does not go ON within 10 seconds after CD (Training Error) is ON.	Line quality is poor. Transmitter is defective. SC PCB (Modem) or NCU is defective.
432	XMT or Polling RCV	B	CD (response from Modem) did not turn OFF within 35 sec. in the initial routine (T1 timer period).	Line quality is poor. (Noise level is too high.) SC PCB (Modem) or NCU is defective.
433	300 bps XMT	D	Preamble was being sent more than 180 sec.	Recording at the remote unit is not finished.
434	XMT or RCV	B D	CD (response from Modem) did not turn OFF within 180 sec. after receiver detected FLAG signal.	Remote unit is defective. SC PCB (Modem) or NCU is defective.
435	RCV	C D	Timer over after sending 300 bps except EOM Reception in phase C, or time over after while waiting frame data detected high speed data.	Line quality is poor. Transmitter is defective. SC PCB (Modem) or NCU is defective.
436	RCV	B C	DCN received after transmitting FTT.	Transmitter is defective or incompatible. Line quality is poor.

Information Code Table (5/7)

Info. Code	Mode	Phase	Description of Problem	Cause
446	RCV	C	DCN received while waiting Post Command.	Transmitter is defective.
447	RCV	D	Did not receive Post Command in 15 sec.	Remote unit is defective. Line quality is poor.
458	RCV	C	Did not receive CD in 10 sec.	Line quality is poor. SC PCB (Modem) or NCU is defective. Remote unit gets a document jammed.
459	RCV	C	Failed training in 10 sec.	Line quality is poor.(Training signal is distorted due to line noise.) SC PCB (Modem) or NCU is defective.
490	RCV	C	Sum of error line exceeded the limit (parameter 39) by 64 lines.	Line quality is poor. SC PCB (Modem) or NCU is defective.
492	RCV	C	Did not receive any data in Receiving Data Buffer in 10 sec.	Remote unit is defective. Line quality is poor. SC PCB (Modem) or NCU is defective.
493	RCV	C	Did not detect the first EOL in 10 sec.	Remote unit gets a document jammed. Line quality is poor. SC PCB (Modem) or NCU is defective.
494	RCV	C	Interval between two EOLs was more than 10 sec. when receiver received message data.	Remote unit is defective. Line quality is poor. SC PCB (Modem) or NCU is defective.
495	RCV	C	Detected CD off.	Remote unit is defective. Line is disconnected. SC PCB (Modem) or NCU is defective.
540	XMT (ECM)	B	No response after transmitting 3rd CTC.	Remote unit is defective. Line quality is poor. SC PCB (Modem) or NCU is defective.
541	XMT (ECM)	D	No response after transmitting 3rd EOR or received DCN.	Remote unit is defective. Line quality is poor. SC PCB (Modem) or NCU is defective.
542	XMT (ECM)	D	No response to the 3rd RR transmitted or received DCN.	Remote unit is defective. Line quality is poor. SC PCB (Modem) or NCU is defective.

Information Code Table (6/7)

Info. Code	Mode	Phase	Description of Problem	Cause
543	XMT (ECM)	D	T5 Timer (60 sec.) elapsed without MCF.	Remote unit is defective.
544	XMT (ECM)	D	Stopped Transmission after EOR Transmission.	Line quality is poor. SC PCB (Modem) or NCU is defective.
549	XMT (ECM)	C	Did not finish sending a block in 8 minutes.	SC PCB (Modem) or NCU is defective.
550	RCV (ECM)	C	Following frame not detected in T1 time.	Remote unit disconnects line.
552	RCV (ECM)	D	RR not detected in 12 seconds after RNR Transmission.	Remote unit is defective.
553	RCV (ECM)	D	Detected DCN under abnormal ending.(except 554, 555)	Remote unit is defective. STOP button is pressed at remote unit.
554	RCV (ECM)	D	Transmitted ERR after receiving EOR	Line quality is poor.
555	RCV (ECM)	D	After receiving EOR, sent PIN and completed the procedure.	Line quality is poor. SC PCB (Modem) or NCU is defective.
556	RCV (ECM)	D	Received invalid FIF in CTC.	Remote unit is defective.
630	XMT or RCV (Polling)	B	Redial count over.	Dial tone is not detected. Second dial tone is not detected. (depending on country.) Busy tone is detected. (depending on country.) T1 timer (35±5 sec.) elapsed without signal from receiver.
870	Mem.XMT Multi-copy		Memory overflowed. File register is full.	Memory overflows.
871	Multi-copy Mem. Print	–	Memory error.	Memory is defective.
872	Multi-station XMT Multi-copy Substitute RCV	–	Memory error. (Decoding error)	Memory is defective.

Information Code Table (7/7)

Info. Code	Mode	Phase	Description of Problem	Cause
873	Multi-station XMT Multi-copy Substitute RCV	–	Memory is empty.	Memory is defective.
874	Multi-station XMT Multi-copy Substitute RCV	–	Memory is abnormal.	Memory is defective.
877	Multi-station XMT Multi-copy	–	Flash memory error.	Memory IC is not mounted. Memory IC is defective.
879	Multi-station XMT Mem.XMT	-	Memory directory overflowed or the file contains more than 99 pages.	Memory directory overflows.
880	Record Message	–	Memory overflowed.	Memory overflows.
990	Multi-CPU operation	-	No response from memory.	SC PCB is defective.
991	Multi-CPU operation	-	Response bit stays off.	SC PCB is defective.
992	Multi-station XMT	-	CODEC error (Encoding error)	CODEC is defective.
993	-	-	Invalid parameter exists.	Invalid parameter is set.
994	Multi-CPU operation	-	Did not receive mechanical control command or memory command.	SC PCB is defective.
995	Multi-CPU operation	-	Did not receive mechanical control command or memory command.	SC PCB is defective.

4.5 Diagnostic Codes

The 16-digit Diagnostic Code is provided for the service engineer to analyze how the communication was performed. It can be printed with the Journal by setting the Function Parameter No. 81 : DIAG. PRINT to ON.

(1) Example of Journal

JOURNAL

SAT, 12-MAR-94 3 : 00 PM

PANASONIC 123 456 7890

NO.	DATE	PAGES	DURATION	X/R	IDENTIFICATION	RESULTS(CODE)
1	JAN- 20 7:31 PM	1	1' 37	XMT	PANASONIC	OK

(2) Example of Diagnostic List

DIAGNOSTIC LIST

SAT, 12-MAR-94 3 : 00 PM

PANASONIC 123 456 7890

NO.	RESULTS
1	0 1 8 0 8 2 0 0 0 0 0 3 2 0 0 0

1st digit

16th digit

(3) Diagnostic Codes

1st Digit

- : Not used/defined

Data	Definition			
	Auto Dialing	Auto Reception		
0	-	-		
1	-	-		
2	-	-		
3	-	-		
4	-	Used		
5	-	-		
6	-	-		
7	-	-		
8	Used	-		
9	-	-		
A	-	-		
B	-	-		
C	-	-		
D	-	-		
E	-	-		
F	-	-		

2nd Digit

- : Not used/defined

Data	Definition			
	Polling	Reception	Transmission	
0	-	-	-	
1		-	Used	
2	-	Used	-	
3	-	-	-	
4	-	-	-	
5	Used	-	Used	
6	Used	Used	-	
7	-	-	-	
8	-	-	-	
9	-	-	-	
A	-	-	-	
B	-	-	-	
C	-	-	-	
D	-	-	-	
E	-	-	-	
F	-	-	-	

3rd Digit

- : Not used/defined

Data	Definition			
	G3 Non Standard	ECM	Frame Size	
0	–	–	–	
1	–	–	–	
2	–	–	–	
3	–	–	–	
4	–	Used	256	
5	–	–	–	
6	–	Used	64	
7	–	–	–	
8	Used	–	–	
9	–	–	–	
A	Used	–	–	
B	–	–	–	
C	Used	Used	256	
D	–	–	–	
E	Used	Used	64	
F	–	–	–	

4th Digit

- : Not used/defined

Data	Definition			
	Short Protocol B			
0	–			
1	–			
2	Used			
3	–			
4	–			
5	–			
6	–			
7	–			
8	–			
9	–			
A	–			
B	–			
C	–			
D	–			
E	–			
F	–			

5th Digit : Always "0"

Data	Definition			
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

6th Digit - : Not used/defined

Data	Definition			
	Modem Speed			
0	2400 bps			
1	4800 bps			
2	7200 bps			
3	9600 bps			
4	-			
5	-			
6	-			
7	-			
8	-			
9	-			
A	-			
B	-			
C	-			
D	-			
E	-			
F	-			

7th Digit

- : Not used/defined

Data	Definition			
	MMR	MH	MR	
0	-	-	-	
1	-	-	-	
2	-	-	Used	
3	-	-	Used	
4	-	Used	-	
5	-	Used	-	
6	-	-	-	
7	-	-	-	
8	Used	-	-	
9	Used	-	-	
A	-	-	-	
B	-	-	-	
C	-	-	-	
D	-	-	-	
E	-	-	-	
F	-	-	-	

8th Digit

- : Not used/defined

Data	Definition			
	K Parameter			
0	2			
1	4			
2	8			
3	∞			
4	-			
5	-			
6	-			
7	-			
8	-			
A	-			
B	-			
C	-			
D	-			
E	-			
F	-			

9th Digit **- : Not used/defined**

Data	Definition			
	Vertical Resolution			
0	–			
1	15.4 (Super Fine)			
2	–			
3	–			
4	–			
5	–			
6	–			
7	–			
8	–			
9	–			
A	–			
B	–			
C	–			
D	–			
E	–			
F	–			

10th Digit **- : Not used/defined**

Data	Definition			
	Vertical Resolution			
0	–			
1	3.85 (Standard)			
2	–			
3	–			
4	7.7 (Fine)			
5	–			
6	–			
7	–			
8	–			
9	–			
A	–			
B	–			
C	–			
D	–			
E	–			
F	–			

11th Digit

- : Not used/defined

Data	Definition			
	Min. Scan Line Time			
0	-			
1	10 ms			
2	20 ms			
3	-			
4	40 ms			
5	-			
6	-			
7	-			
8	-			
9	-			
A	-			
B	-			
C	-			
D	-			
E	-			
F	-			

12th Digit

- : Not used/defined

Data	Definition			
	Min. Scan Line Time			
0	-			
1	0 ms			
2	1.25 ms			
3	-			
4	2.5 ms			
5	-			
6	-			
7	-			
8	5 ms			
9	-			
A	-			
B	-			
C	-			
D	-			
E	-			
F	-			

13th Digit **- : Not used/defined**

Data	Definition			
	Min. Scan Line Time			
	Fine	Standard		
0	20 ms	20 ms		
1	5 ms	5 ms		
2	10 ms	10 ms		
3	10 ms	20 ms		
4	40 ms	40 ms		
5	20 ms	40 ms		
6	5 ms	10 ms		
7	0 ms	0 ms		
8	-			
9	-			
A	-			
B	-			
C	-			
D	-			
E	-			
F	-			

14th Digit **- : Not used/defined**

Data	Definition			
	Min. Scan Line Time w/ MWS		Min. Scan Line Time w/ MWS-2	
	S-Fine & Fine	Standard	S-Fine & Fine	Standard
0	-	-	-	-
1	-	-	T x 1	T x 1
2	-	-	T x 1	T x 1/2
3	-	-	T x 1/2	T x 1/2
4	T x 1	T x 1/2	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	T x 1/2	T x 1/2	-	-
9	-	-	-	-
A	-	-	-	-
B	-	-	-	-
C	T x 1/2	T x 1/4	-	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-

Note : T = Min. Scan Line Time

15th Digit

- : Not used/defined

Data	Definition			
	NSF	DIS	NSS	DCS
0	-	-	-	-
1	-	-	-	Used
2	-	-	Used	-
3	-	-	Used	Used
4	-	Used	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	Used	-	-	-
9	-	-	-	-
A	-	-	-	-
B	-	-	-	-
C	Used	Used	-	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-

16th Digit

- : Not used/defined

Data	Definition			
	Numeric ID	Character ID		
0	-	-		
1	-	-		
2	-	-		
3	-	-		
4	-	Received		
5	-	-		
6	-	-		
7	-	-		
8	Received	-		
9	-	-		
A	-	-		
B	-	-		
C	Received	Received		
D	-	-		
E	-	-		
F	-	-		

Chapter 5
Test Modes

5.1 Test Mode Table

The following test modes are provided to help you to set various functions and test the condition of the machine.

Test Mode

No	Test Mode	Description
0	PRINT TEST PATTERN	Test Pattern Printout Printing mechanism and electrical circuit will be tested by printing a test pattern from the memory.
1	FUNCTION PARAMETER	Function Parameter Factory default values can be changed.
2	EDIT SYSTEM RAM	System RAM Edit Factory use only. When you need to change the RAM values please consult with MGCS Engineering department.
3	PRINT RAM DATA	RAM Data Printout Function Parameter list in Test Mode 1 and RAM data in Test Mode 2 will be printed.
4	CCD TEST	CCD Test Document scanning mechanism and electrical circuit will be tested by scanning a document and checking the output signal from the CCD.
5	XMT TEST TONE	Tonal Signal Generation Modem function will be tested by sending fax signals.
6	RAM INITIALIZE	RAM Initialization Reset or clear the RAM data.
7	XMT DTMF TONE	DTMF Signal Generation Modem functioning will be tested by sending DTMF signals.
8	NOT USED	
9	MEMORY TEST	To check the Document Memory. (Only used for UF-V60)
10	LCD & LED	LCD and LED Test LCD and LED will be tested by lighting them.
11	ID SET	ID No. Setting ID No. can be entered by this mode. This test mode is only for the countries where service personnel is to enter the ID No.
12 ~ 13	NOT USED	
14	COPY MODE SET	Copy Mode Factory use only.

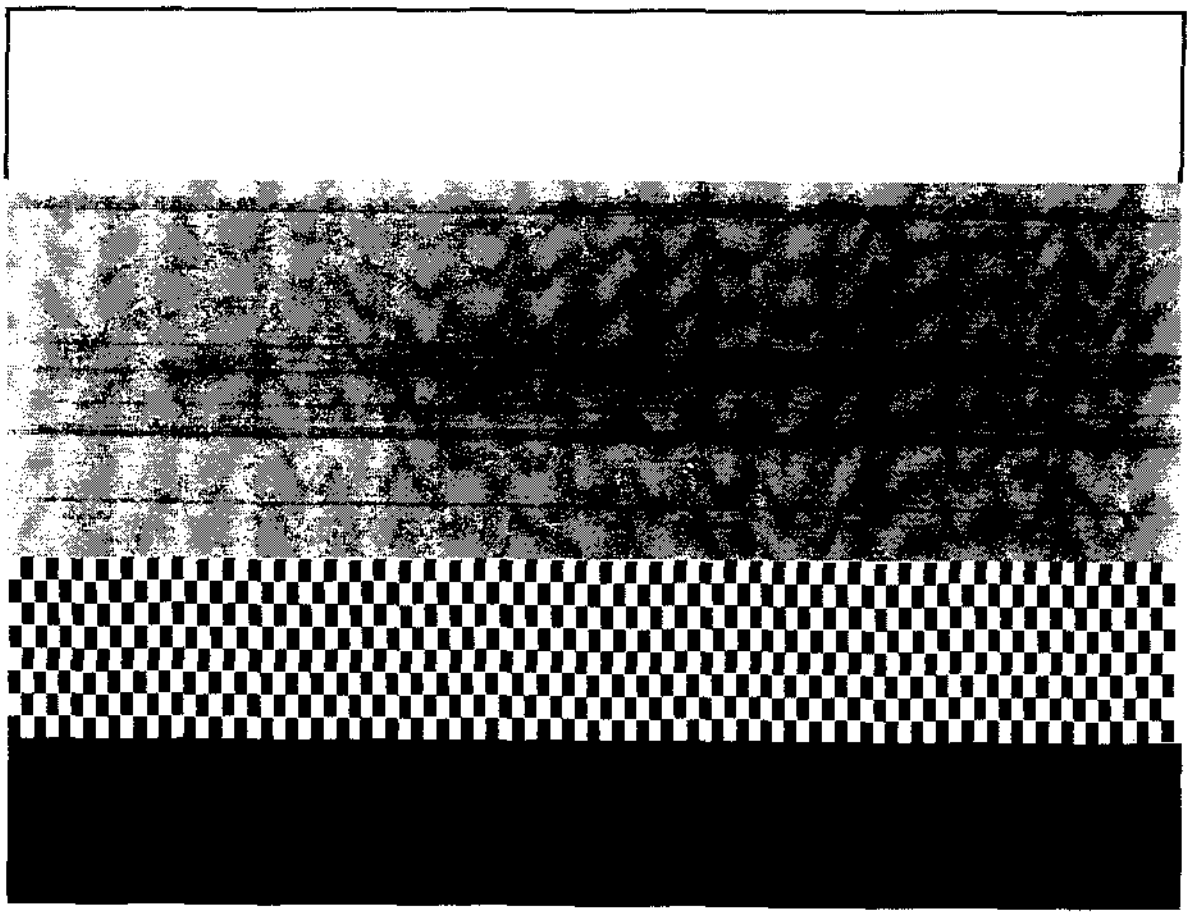
5.2 Test Mode 0 : Print a Test Pattern

A test pattern is printed by following the procedure below.

Test Mode 0 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "**4**".	FAX PARAMETERS (∨ ∧)
3	Press "**#**", "**★**", "**#**" and "**#**".	TEST MODE (∨ ∧)
4	Press "**0**" and "**START**".	* PRINTING *
5	After printing, the display returns to step 3 above.	TEST MODE (∨ ∧)
6	Press "**STOP**" to return to standby.	12-MAR SAT 03:00PM

Test Pattern



5.3 Test Mode 1: Function Parameter

Function Parameter settings are changed by following the procedure below.

Test Mode 1 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "**4**".	FAX PARAMETERS (∨ ∧)
3	Press "**#**", "*****", "**#**", and "**#**".	TEST MODE(∨ ∧)
4	Press "**1**", and "**START**".	PARAMETER (∨ ∧)
5	To select the parameter you want to change, enter a 2-digit code listed in the Function Parameter Table or scroll the display by pressing the "∨" or "∧" button . Example : Changing "**Redial Interval**" Press "**5**", "**2**", and "**START**	REDIAL INT.:180S
6	Pressing "<" or ">" button to select the desired setting.	REDIAL INT.:120S
7	Press "**START**" and the new setting will be stored. Display will show the next parameter.	REDIAL COUNT :02
8	Press "**STOP**" twice to return to standby.	12-MAR SAT 03:00PM

Note: Key function

"**START**" :The new setting value is stored in the machine.
"∨" : Scroll down (increment) the Function Parameter No.
"∧" : Scroll up (decrement) the Function Parameter No.
">" : Select the settings.
"<" : Select the settings.
"**CLEAR**" : Back to Step 4 screen.

Function Parameter

No.	Parameter	Selections	Default Value	Description
1 ~ 2	NOT USED			
03	TX JAM CHECK	OFF ON	ON	Document length determined as a jam. Off :Unlimited length On :Up to 1m
04	HEADER PRINT	IN NONE OUT	IN	Header printing position In :Inside of the original picture area None :No header Out :Outside of the original picture area
05 ~ 09	NOT USED			
10	RX JAM CHECK	OFF ON	ON	Maximum length of recording Off :Unlimited length On :Up to 2m
11	AUTO CUT	OFF ON	ON	Automatic cut of the recording paper Off :Recording paper is not cut. On :Recording paper is cut automatically.
12 ~ 19	NOT USED			
20	TX ATT	-00 dBm -01 dBm ~ -15 dBm	-09 dbm	Transmission signal output level Highest :-00dBm Lowest :-15dBm
21	RX ATT	-33 dBm -38 dBm -43 dBm -48 dBm	-43 dbm (Note 1)	Receiving sensitivity Lowest :-33dBm Highest :-48dBm
22	TX START	9600 bps 7200 bps 4800 bps 2400 bps	9600 bps	Modem starting speed in transmission
23	RX START	9600 bps 7200 bps 4800 bps 2400 bps	9600 bps	Modem starting speed in reception
24	G3 RX EQL	0 dB 4 dB 8 dB 12 dB	0 dB	Cable equalizer in G3 reception mode

Note 1 : Germany is -48 dBm.

Function Parameter

No.	Parameter	Selections	Default Value	Description
25	G3 TX EQL	0 dB 4 dB 8 dB 12 dB	0 dB	Cable equalizer in G3 transmission mode
26	CED & 300	75 ms 500 ms 1000 ms	75 ms	Pause time between CED and NSF/CSI/DIS signal
27	COMM. STRT	1st DIS 2nd DIS	1st DIS	Communication start up condition 1st DIS :Starting up with the first reception of the NSF and DIS. 2nd DIS :Starting up with the second reception of the NSF and DIS.
28	EP TONE	OFF NSTD-C NSTD-B & C ALL-C ALL-B & C	OFF	Echo protect tone on V.29 mode
29	TCF	100ms+1s 100ms+1.2s 200ms+1s 200ms+1.2s	200ms+1.2s	The TCF signal discard and checking time.
30	NON-STANDARD	OFF ON	ON	NSF and NSS signal transmission Off :G3 standard mode On :G3 non-standard mode
31	CSI TX	OFF ON	ON	CSI signal transmission Off :Not transmitted. On :Transmitted.
32	TSI/CIG TX	OFF ON	ON	TSI and CIG signal transmission Off :Not transmitted. On :Transmitted.
33	POL. PASSWORD	OFF ON	OFF	Checking polling password before Fax Bulletin Board data is being transmitted. (UF-V60 only) Off :Not checked. On :Checked.
34	S-PROTOCOL	OFF (B)	(B)	Short Protocol B Off :Not used. (B) :Used.
35	MWS	Off TYPE 1 TYPE 1 & 2	Type 1 & 2	Matsushita White Skip function Off :Not selected. Type 1 :MWS Type 1 is selected. Type 1& 2 :MWS Type 1 & 2 are selected.
36	CODING	MH MH/MR MH/MR/MMR	MH/MR/MMR	Coding scheme MH / MR / MMR is only for UF-V60.

Fanction Parameter

No.	Parameter	Selections	Default Value	Description
37	ECM	OFF ON	ON	ITU-T/CCITT Error Correction Mode (UF-V60 only) Off :Not selected. On :Selected.
38	SELECT RCV	OFF ON	OFF	Selective Reception mode Compare the last 4 digits of the calling station's ID with the last 4 digits of each speed dialing station. Off :Not check. On :Check.
39	ERR LINE CNT	32 lines 64 lines 96 lines 128 lines 160 lines 192 lines 244 lines 255 lines	64 Lines	Error Line Counter When the machine detects the error lines equal to or more than the line number set, the machine will disconnect the line.
40	ERR LINE %	5 % 10 % 15 % 20 %	10 % (Note 2)	Error Line percentage When the machine detects the error lines equal to or more than the percentage set, the machine will disconnect the line.
41	ERR DETECT	CNT %	CNT (Note 3)	Error detection method CNT :Determined by the Error Line Counter. % :Determined by the Error Line percentage.
42	NOT USED			
43	DC Loop	OFF ON	OFF	Checking DC Loop Off :Check DC Loop. On :Not check.
44	MONITOR	OFF ON	OFF	Monitoring the communication protocol through the speaker Off :Not selected. On :Protocol will be heard through the speaker.
45	ITU-T S-FINE	OFF ON	ON	ITU-T/CCITT Super Fine resolution Off :Not selected. On :Selected.
46 ~ 49	NOT USED			
50	BREAK RATIO	0% 1% ~ 98%	56%	Dial Pulse Break Ratio The number entered will be the Break Ratio.

Note 2 : The Netherlands is 5 %.

Note 3 : Germany and the Netherlands is %.

Function Parameter

No.	Parameter	Selections	Default Value	Description
51	FLASH KEY	FLASH EARTH	FLASH	Flash and Earth key function Flash :Flash key function is selected. Earth :Earth key function is selected.
52	REDIAL INT.	30 s 60 s 120 s 180 s	180 sec.	Automatic Redial interval The machine will redial automatically with the interval set if the called station is busy.
53	REDIAL COUNT	0 1 time ~ 98 times	5 times (Note 4)	Automatic Redial number Automatic Redial will be tried by the number set up to 98 times.
54	ON HOOK TIME	1 sec. 5 sec. 10 sec. 60 sec.	5 sec.	Waiting time before calling the next station in Multi-Station Transmission After sending a document to a station the machine will wait the period selected and then start calling the next station.
55	BUSY TONE CK	OFF ON	ON (Note 4)	Busy Tone detection Off :Not check. On :Check.
56	DIAL TONE CK	OFF ON	ON (Note 5)	Dial Tone detection Off :Not check. On :Check.
57	PBX. DT. CK	OFF ON	OFF (Note 5)	PBX Dial Tone detection Off :Not check. On :Check.
58	VOICE SNS	-33 dBm -38 dBm -43 dBm -48 dBm	-43dBm (Note 6)	Receiving sensitivity for voice
59	P.HK OFF CHK	OFF ON	ON (Note 7)	Parallel telephone off hook detection Off :Not check. On :Check.
60	RMT RX TMG	50 ms 80 ms 110 ms 140 ms 170 ms 200 ms	50 ms	Monitoring duration of DTMF in Remote Reception Monitoring duration of DTMF generated by an external telephone in Remote Reception

Note 4 : May vary depending on country

Note 5 : No function depending on country

Note 6 : Germany is -48 dBm.

Note 7 : North, Central & South America are ON.

Function Parameter

No.	Parameter	Selections	Default Value	Description
61	RMT RX DIGIT	2 4	2	No. of digit for Remote Reception Code 2 :2 digits 4 :4 digits
62	RMT RX CODE	00 ~ 99, **, ##	**	Remote Reception Code Preset Remote Reception code.
63	DTMF DETECT	OFF ON	ON	DTMF detection in Remote Reception Detect DTMF generated by the external telephone set while the calling and called parties are talking over the telephone Off :DTMF will be ignored On :DTMF will be detected.
64	RMT CONTROL	OFF ON	ON	Remote Control for built-in TAM and External TAM (UF-V60 only) Off :Invalid Remote control On :Remote control for the built-in TAM
65	SILENT TIME	00 sec. 01 sec. ~ 15 sec.	6 sec.	Monitoring duration of the incoming voice. If External TAM mode is selected and no incoming voice is detected during the period set, the machine will start Fax reception process. Select the desired duration according to the External TAM specifications.
66	TEL PRIORITY	TEL FAX	FAX	Telephone priority TEL :Not accept START key FAX :Start Fax operation by START key.
67	VOICE TX	-0 dBm -1 dBm ~ -15 dBm	-6 dBm	OGM output level
68 ~ 70	NOT USED			
71	REMOTE DIAG	OFF ON	ON	Remote Diagnostic Mode Off :Not accept the diagnosis. On :Allow the center station to diagnose.
72	DIAG CODE			Remote Diagnostic Password Enter 4 digit password.
73 ~ 80	NOT USED			
81	DIAG PRINT	OFF ON	OFF	Diagnostic Code Printout Diagnostic code will be printed following the Journal printout Off :Not printed. On :Printed.

Note : The default setting of parameters may vary depending on the country's specifications or regulations. Print the Function Parameter List to confirm the default settings. (See Test Mode 3 : RAM Data Printout.)

5.4 Test Mode 2 : System RAM Edit

RAM data can be changed by following the procedure below. However, please do not change any data in this Test Mode 2 unless you are informed the correct meaning of each RAM data.

Test Mode 2 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "**4**".	FAX PARAMETERS (∨ ∧)
3	Press "**#**", "**★**", "**#**" and "**#**".	TEST MODE(∨ ∧)
4	Press "**2**" and "**START**".	#000 [ ] =
5	Enter the RAM address you want to change.	
6	Enter the new RAM data and press "**START**".	
7	Repeat the step 5 to 6 if you want to change any other RAM data.	
8	Press "**STOP**" twice to return to standby.	12-MAR SAT 03:00PM

5.5 Test Mode 3 : RAM Data Printout

Function Parameter List and the settings in Test Mode 1 and RAM data in Test Mode 2 can be printed by following the procedure below.

Test Mode 3 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "**4**".	FAX PARAMETERS (∨ ∧)
3	Press "**#**", "*****", "**#**" and "**#**".	TEST MODE(∨ ∧)
4	Press "**3**" and "**START**".	* PRINTING *
5	After printing, the display returns to step 3 above.	TEST MODE(∨ ∧)
6	Press "**STOP**" to return to standby.	12-MAR SAT 03:00PM

5.6 Test Mode 4 : CCD Test

Document scanning will be started by following procedure below.

Test Mode 4 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "4".	FAX PARAMETERS (∨ ∧)
3	Press "#", "*", "#", and "#".	TEST MODE (∨ ∧)
4	Set a document on the ADF. Press "4" and "**START**". The machine will start scanning the document	CCD TEST
5	Press "**START**" to stop the feeding of the document. The machine is still scanning the document. Check the output signal sent from CCD.	CCD TEST
6	Press "**START**" to restart feeding the document.	CCD TEST
7	Repeat step 4 to 6 to check the signal if necessary.	CCD TEST
8	Press "**STOP**" twice and the display will return to standby.	12-MAR SAT 03:00PM

5.7 Test Mode 5 :Tonal Signal Generation

The following signals listed in the Tonal signal table can be send from the machine by following the procedure below.

Test Mode 5 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "**4**".	FAX PARAMETERS (∨ ∧)
3	Press "**#**", "**★**", "**#**", and "**#**".	TEST MODE(∨ ∧)
4	Press "**5**" and then press "**START**".	TONE = 9600 bps OFF
5	Enter the signal No you want to generate. (see Tonal signal table below.) Example : **V27ter 4800bps** Enter "**3**", or scroll the display by pressing "∨" or "∧" .	TONE = 4800 bps OFF
6	Press "**START**" and the signal will be sent out.	TONE = 4800 bps ON
7	Press "**STOP**" to end the signal generation. To select another signal, repeat step 5.	TONE = 4800 bps OFF
8	Press "**STOP**" twice to return to standby.	12-MAR SAT 03:00PM

Tonal Signal Table

Key Button	Signals			Display
1	V29	9600bps	Data (mark : 1)	TONE = 9600 bps OFF
2	V29	7200bps	Data (mark : 1)	TONE = 7200 bps OFF
3	V27ter	4800 bps	Data (mark : 1)	TONE = 4800 bps OFF
4	V27ter	2400bps	Data (mark : 1)	TONE = 2400 bps OFF
5	300bps	Flag pattern		TONE = 300 bps OFF
6	462Hz			TONE = 462 Hz OFF
7	1100Hz			TONE = 1100 Hz OFF
8	1650Hz			TONE = 1650 Hz OFF
9	1850Hz			TONE = 1850 Hz OFF
0	LINE			TONE = LINE OFF
*	2100Hz			TONE = 2100 Hz OFF

5.8 Test Mode 6 : RAM Initialization

RAM data is initialized or cleared by following the procedure below.

Test Mode 6 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	`12-MAR SAT 03:00PM`
2	Press "**FUNCTION**" and then "**4**".	`FAX PARAMETERS (∨ ∧)`
3	Press "**#**", "**★**", "**#**", and "**#**".	`TEST MODE(∨ ∧)`
4	Press "**6**" and then press "**START**".	`RAM INITIALIZE`
5	Press the dial number (2-digits) to select the initialize mode. (See below)	`TEST MODE(∨ ∧)`
6	Press "**STOP**" to return to standby.	`12-MAR SAT 03:00PM`

RAM Initialization

Key Button	Description
★	Parameter initialize. RAM settings in Test Mode 1 and Test Mode 2 will be initialized to the default settings
1, 0	Logo and ID settings will be cleared.
1, 2	Journal data will be cleared.
1, 3	One-Touch and ABBR. Nos. will be cleared.
1, 4	Passwords, Fax and Message Transfer Station Nos, Timer Switch and Diagnostic Codes will be cleared.
9, 9	Shipment set Delete and initialize all RAM data. (See Note 1)

Note 1: This operation should be performed when the machine is installed.

5.9 Test Mode 7 : DTMF Signal Generation

DTMF (Dual Tone Multi-Frequency) signal is generated by following the procedure below.

Test Mode 7 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "4".	FAX PARAMETERS (∨ ∧)
3	Press "#", "★", "#", and "#".	TEST MODE (∨ ∧)
4	Press "**7**" and "**START**".	[0] 941 & 1336 OFF
5	Press a key button to select the DTMF signal. (See below) Example : 770 & 1209 Hz Press "**4**".	[4] 770 & 1209 OFF
6	Press "**START**", then the DTMF signal is sent.	[4] 770 & 1209 ON
7	Press "**STOP**" and the DTMF signal will be stopped.	
8	To test other signals, repeat step 5 to 7.	
9	Press "**STOP**" twice and the display will return to standby.	12-MAR SAT 03:00PM

DTMF Signal

Key Button	DTMF	Display
1	697 & 1209 Hz	[1] 697 & 1209 OFF
2	697 & 1336 Hz	[2] 697 & 1336 OFF
3	697 & 1477 Hz	[3] 697 & 1477 OFF
4	770 & 1209 Hz	[4] 770 & 1209 OFF
5	770 & 1336 Hz	[5] 770 & 1336 OFF
6	770 & 1477 Hz	[6] 770 & 1477 OFF
7	852 & 1209 Hz	[7] 852 & 1209 OFF
8	852 & 1336 Hz	[8] 852 & 1336 OFF
9	852 & 1477 Hz	[9] 852 & 1477 OFF
0	941 & 1336 Hz	[0] 941 & 1336 OFF
★	941 & 1209 Hz	[*] 941 & 1209 OFF
#	941 & 1477 Hz	[#] 941 & 1477 OFF

5.10 Test Mode 10 : LCD and LED Test

LCD and LED are lit by following the procedure below.

Test Mode 10 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "**4**".	FAX PARAMETERS (∨ ∧)
3	Press "**#**", "**★**", "**#**", and "**#**".	TEST MODE (∨ ∧)
4	Press "**1**", "**0**", and "**START**".	LCD & LED TEST
5	Press "**START**" and all digits on LCD and LEDs will be lit.	■■■■■■■■■■■■■■■■■■■■
6	Press "**START**" to turn off LCD and LEDs	
7	Press "**STOP**" twice to return to standby.	12-MAR SAT 03:00PM

5.11 Test Mode 11 : ID No Setting

This test mode is only for the countries where service personnel is to enter the ID number. If the operation of entering the ID number is not listed in the User's Guide attached, follow the procedure below to enter the ID number.

Test Mode 11 Operation

Step	Operation or Unit Condition	LCD Display
1	Standby	12-MAR SAT 03:00PM
2	Press "**FUNCTION**" and "**4**".	FAX PARAMETERS (∨ ∧)
3	Press "**#**", "*****", "**#**", and "**#**".	TEST MODE(∨ ∧)
4	Press "**1**", "**1**", **and** "**START**".	TEL:■
5	Enter the telephone number. (Max. 20 digits)	TEL:1234567■
6	Press "**START**".	TEST MODE(∨ ∧)
7	Press "**STOP**" to return to standby.	12-MAR SAT 03:00PM

Note

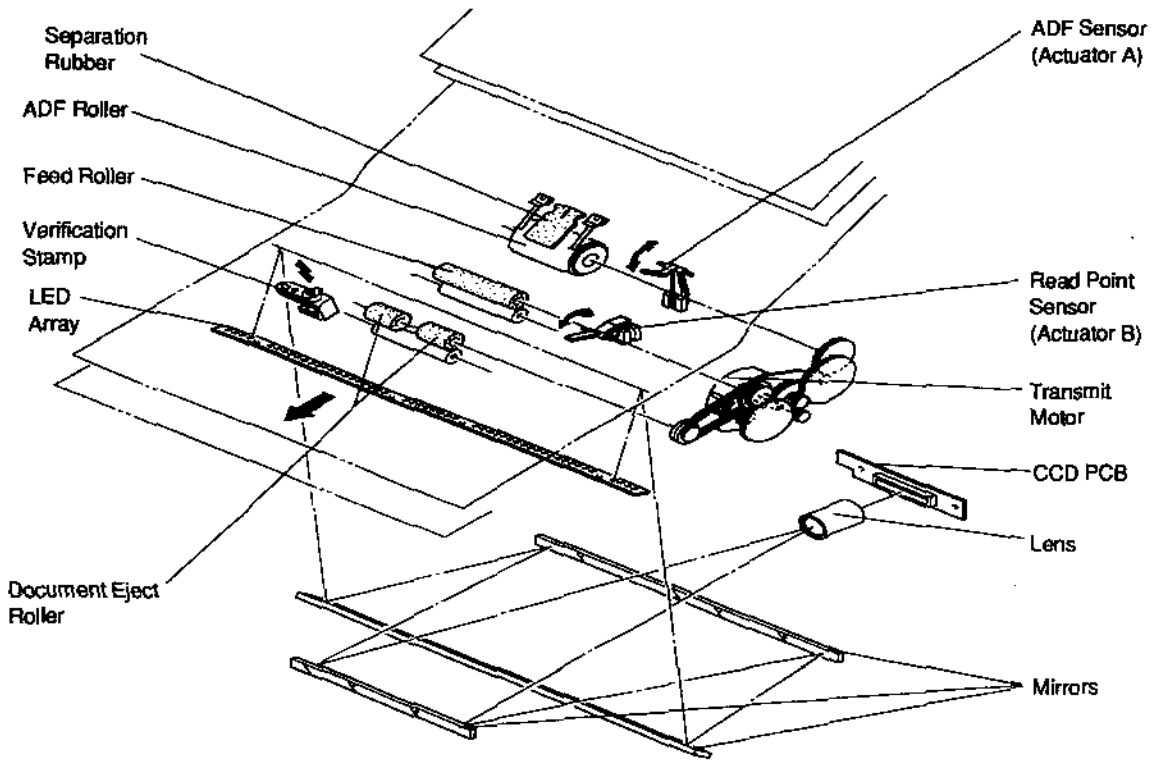
Chapter 6
System Description

6.1 Mechanical Operation

The mechanical units are installed in a single unit body. The mechanical block consists of the transmitting mechanism and the receiving mechanism.

6.1.1 Transmitting Mechanism

The Transmitting Mechanism consists of components which feed, scan, and eject documents, as well as send signals. These components and their functions are as follows:



(1) ADF Mechanism

The ADF (Automatic Document Feeder), consisting of the ADF Roller and Separation Rubber, automatically feeds paper using differences in friction. Each document is placed face-down on the ADF Tray before being fed into the unit.

(a) ADF Roller (3040)
The ADF Roller feeds documents page by page into the scanning area from the ADF Tray.

(b) Separation Rubber (1150)
The Separation Rubber separates documents placed on the ADF Tray and prevents multiple feeding.

(2) A4 LED Array (2040)

The unit contains one LED Array. It is used as a light source to apply light to the document. The LED Array turns on when the Read Point Sensor is activated by the document.

(3) Upper Transmission Chassis (1080)

Upper Transmission Chassis is an auxilliary part for feeding and ejecting documents. It provides the white scanning area and serves as a base for electronic shading.

(4) Transmitting Mechanism Driving System

The Transmitting Mechanism Driving System feeds documents through the transmitting mechanism. It consists of Transmit Motor A, the Feed Roller, Document Eject Rollers, and gears.

(a) Transmit Motor A (3072)
Transmit Motor A, controlled by the CPU, drives the ADF Roller, Feed Roller, and Document Eject Rollers, according to the density of the picture information.

(b) Feed Roller (1124)
The Feed Roller feeds the documents to the scanning point.

(c) Eject Roller (1110)
The Eject Roller feeds and ejects documents out of the machine.

(5) Sensors in Transmitting Mechanism (mounted on SC PCB)

(a) ADF Sensor
The ADF Sensor detects the presence of documents on the ADF Tray. When the document is placed on the ADF Tray, Actuator A (3060) is tripped and the LED light path opens. This light turns on the phototransistor, which outputs a low active signal (nADF).

(b) Read Point Sensor
The Read Point Sensor detects a document jam, and the start and end of scanning. The LED light path opens when Actuator B (3050) is tripped by the document. The light turns on the phototransistor, which outputs a low active signal (nSPAP). The CPU determines that a document is jammed if Actuator B is not tripped within a specified time after the ADF Roller starts feeding.

(6) Verification Stamp Assembly (2160)

The Verification Stamp Assembly stamps a mark on the front of the document after a successful transmission. It consists of the Stamp Head (2161), Stamp Solenoid, and Stamp Holder.

(7) Scanner Unit

The Scanner Unit consists of the three mirrors, a lens, and the CCD PC Board.

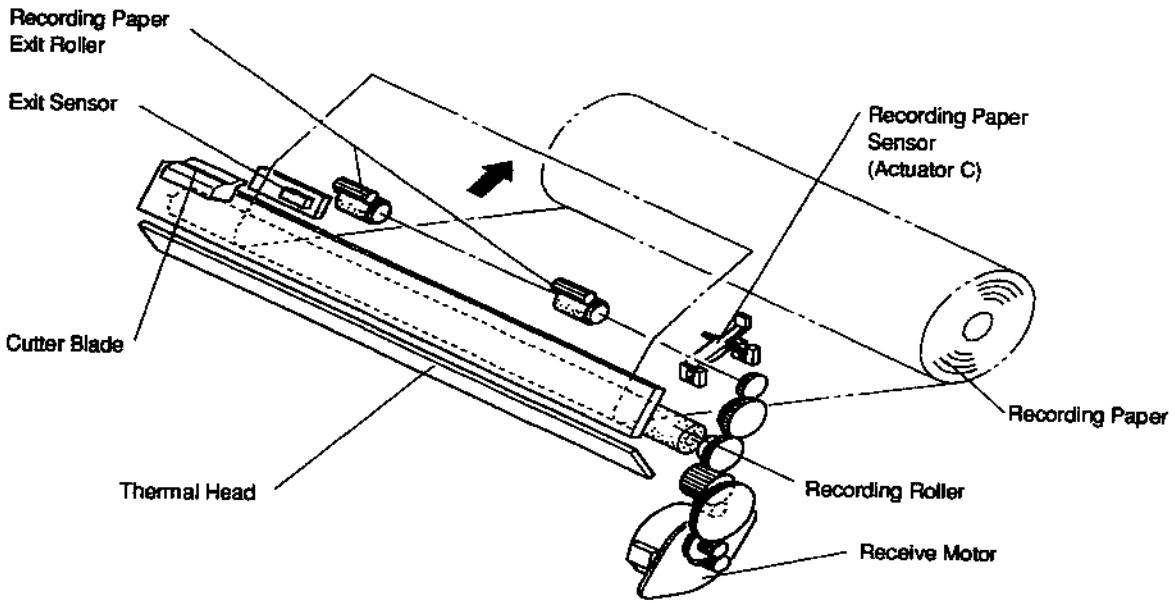
(a) Mirrors
The three mirrors reflect the light (image information) to the Lens.

(b) Lens
The Lens condenses the image information and passes it to the CCD.

(c) CCD PC Board
The CCD, mounted on the CCD PC Board, converts the image information into electrical signal.

6.1.2 Receiving Mechanism

The Receiving Mechanism consists of components which feed, record, eject and cut the recording paper. The components and their functions are as follows:



(1) Thermal Head (4100)

The Thermal Head unit consists of a Thermal Head and bracket, which adjusts and positions the heat element against the recording paper. To ensure a uniform contact with the recording paper surface, the Thermal Head is pressed against the recording paper with five Coil Springs (4111)

(2) Receiving Mechanism Driving System

The Receiving Mechanism Driving System consists of Receive Motor, the Recording Roller, Recording Paper Exit Roller, and gears. Receive Motor (3073) is used to drive the Recording Roller (5120) and the Recording Paper Exit Roller (5040) which feeds the Recording Paper.

(3) Cutter Unit (4080)

When the recording procedure is completed, a DC Motor drives the pulley fixed to the Cutter Unit. The pulley pulls the Cutter Blade horizontally across the recording paper via the attached steel cord.

(4) Sensors in Receiving Mechanism

(a) Recording Paper Sensor (3061) on the SC PCB
The Recording Paper Sensor detects the presence of the recording paper. When the recording paper is installed, Actuator C is tripped and the LED light path opens. This light turns on the phototransistor which outputs a low active signal (nRPAP).

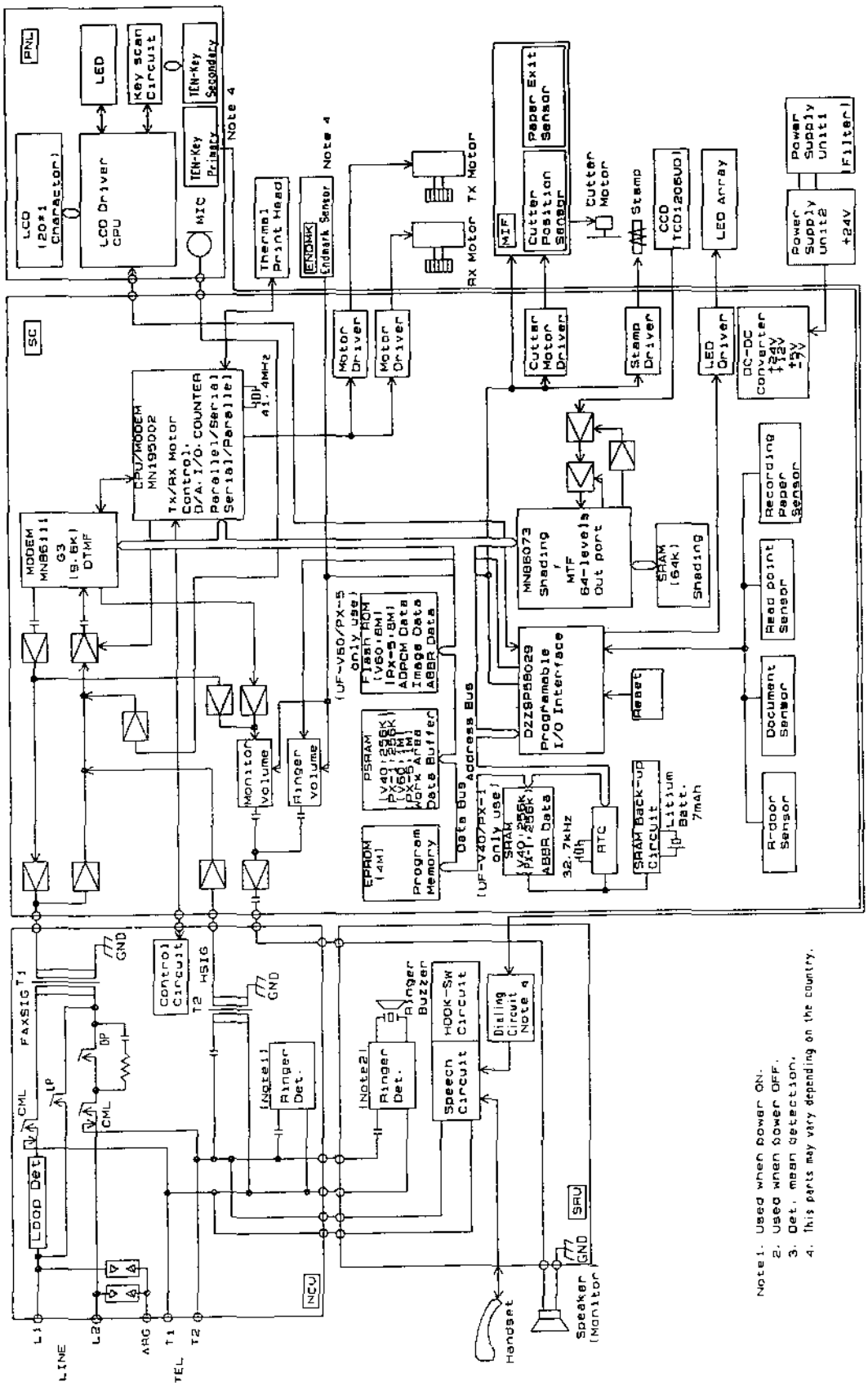
(b) Exit Sensor on the MIF PCB (4070)
The Exit Sensor detects recording paper jams. When the recording paper reaches the Exit Sensor, light reflects from the recording paper, turning on the phototransistor which outputs a low active signal (nEXIT)

(c) Cutter Position Sensor (Included in Cutter Unit: 4080)
The Cutter Position Sensor detects the Cutter Blade position. When the Cutter Blade is at the home position, the microswitch is actuated and outputs a low active signal (nCUTSEN).

(d) Receiving Door Sensor (6120)
The Receiving Door Sensor detects the position of the Receiving Door. When the door is closed, the microswitch is actuated and outputs a low active signal (nRDOR).

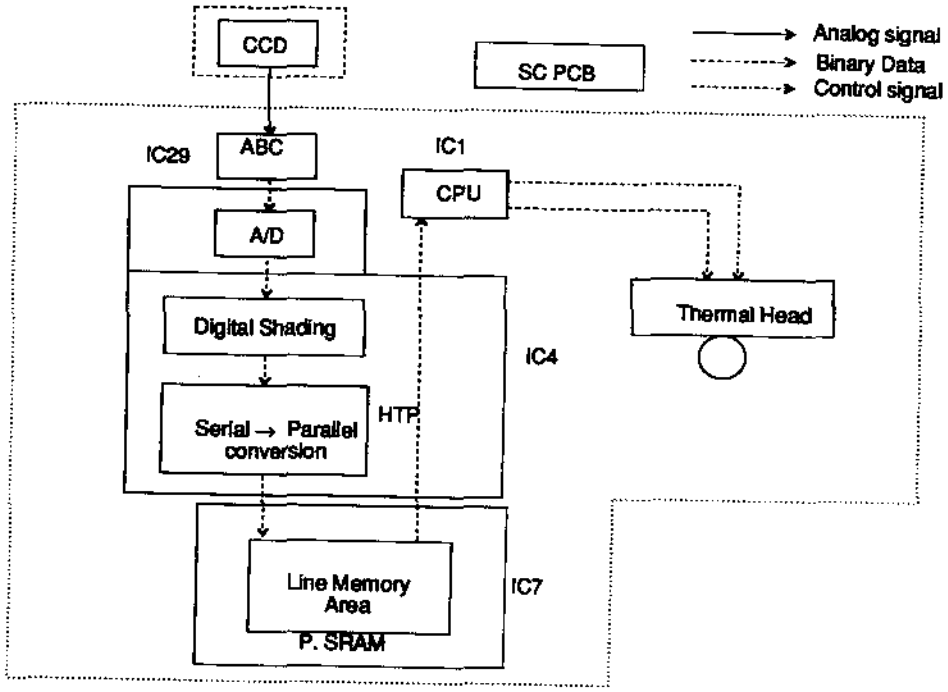
6.2 Electrical Circuit

6.2.1 Block Diagram

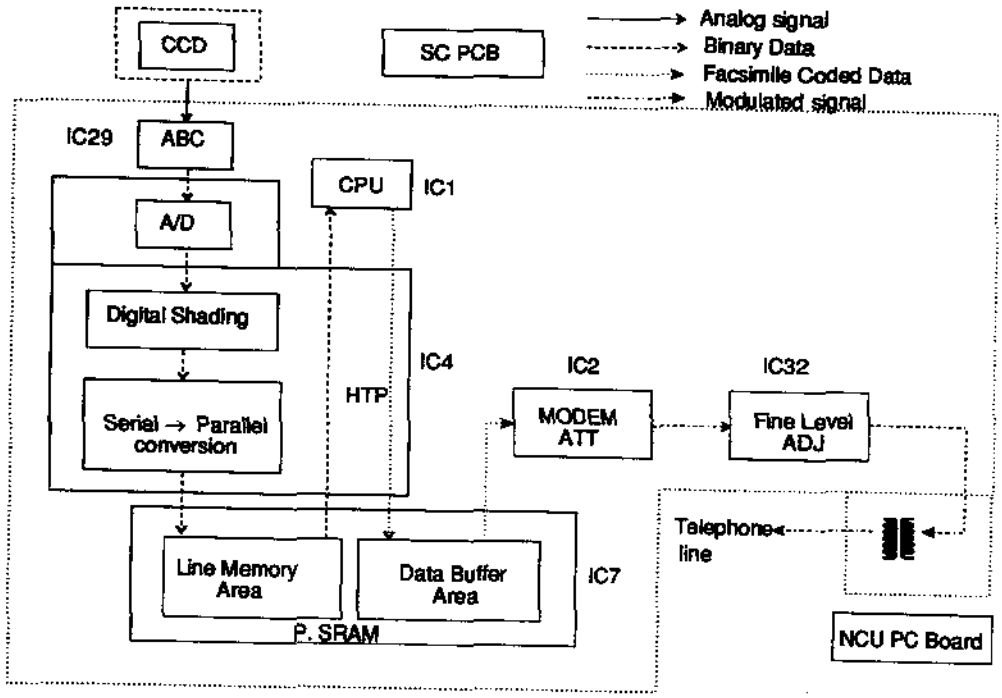


Note1. Used when power ON.
2. Used when power OFF.
3. Det. mean detection.
4. This parts may vary depending on the country.

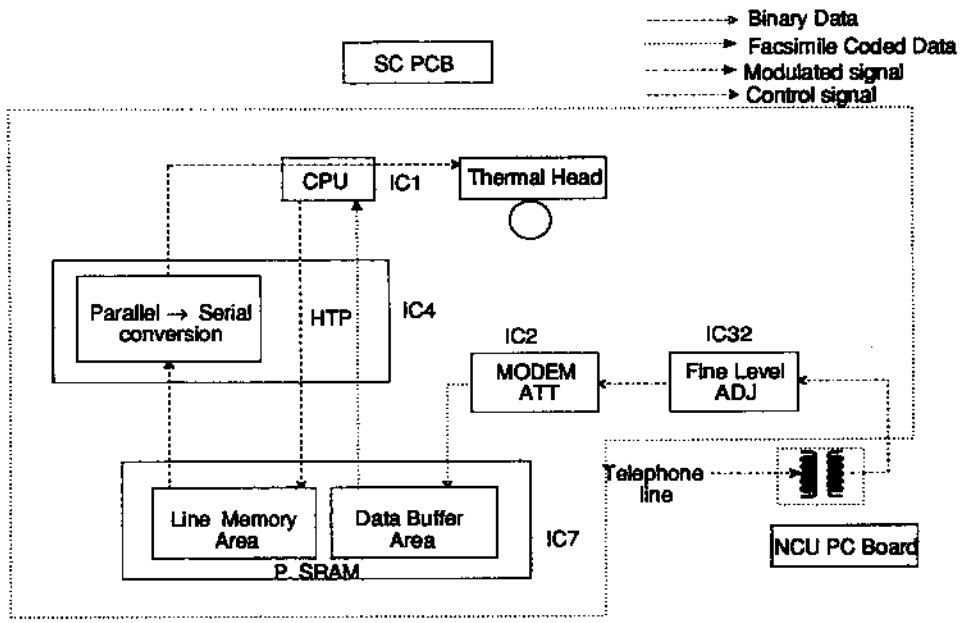
6.2.2 Copy Mode Signal Route



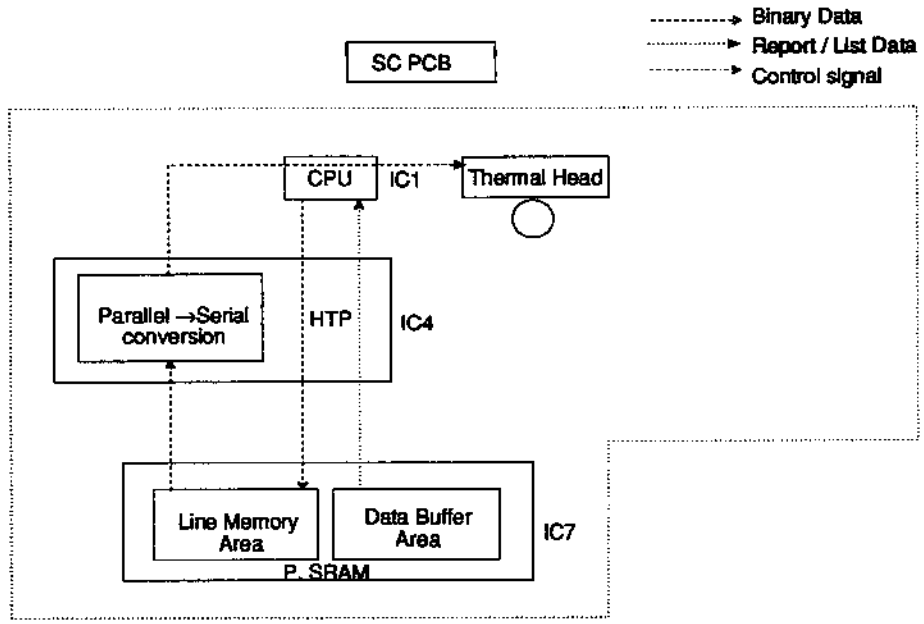
6.2.3 Transmission Signal Route



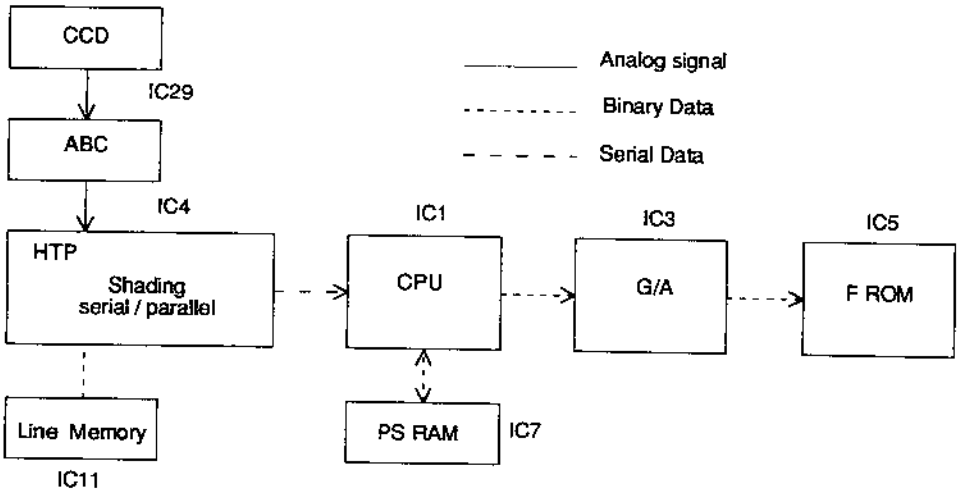
6.2.4 Reception Signal Route



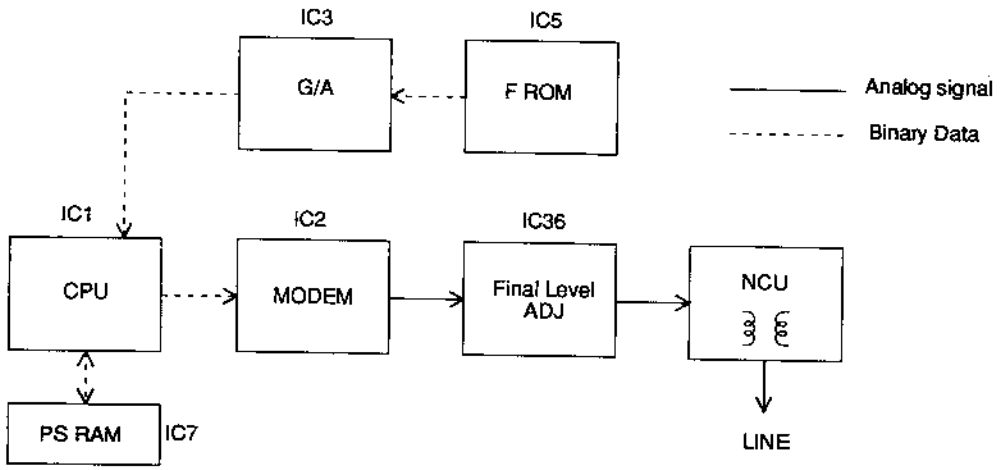
6.2.5 Report/List Print Signal Route



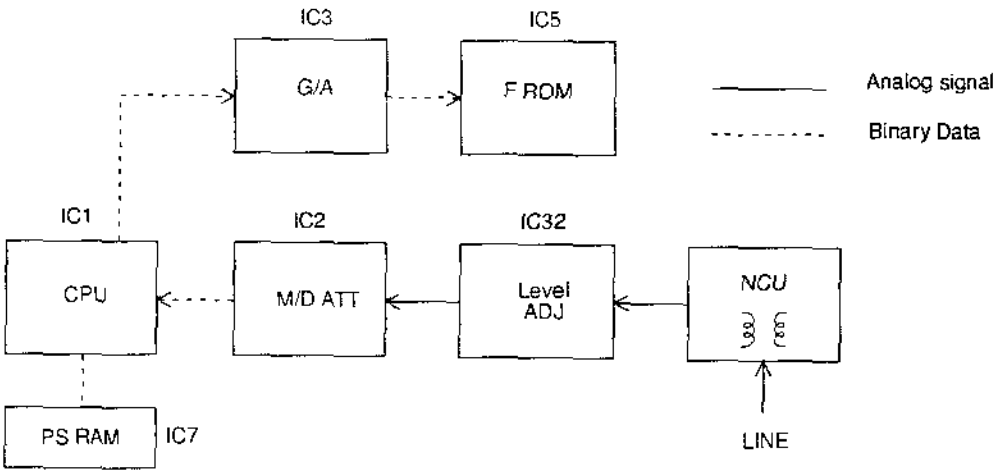
6.2.6 Storing into Memory (UF-V60 only)



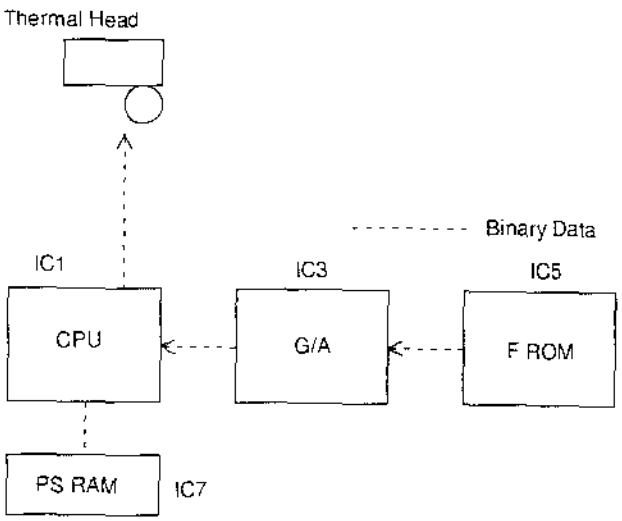
6.2.7 Memory Transmission (UF-V60 only)



6.2.8 Memory Reception (UF-V60 only)

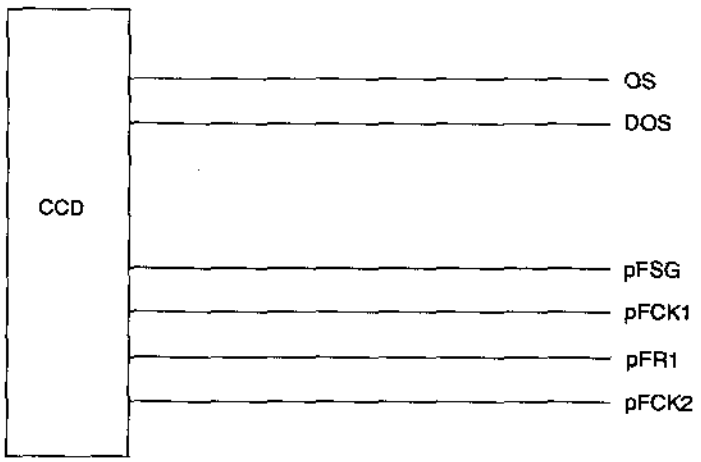


6.2.9 *Printout from Memory (UF-V60 only)*



6.3 CCD PC Board

6.3.1 Block Diagram



6.3.2 Block Explanation

The image read in the optical block is input to the CCD (TCD1206D) at 1,728 bits per line. The timing chart of the signal and clock on the CCD PCB is on the following page.

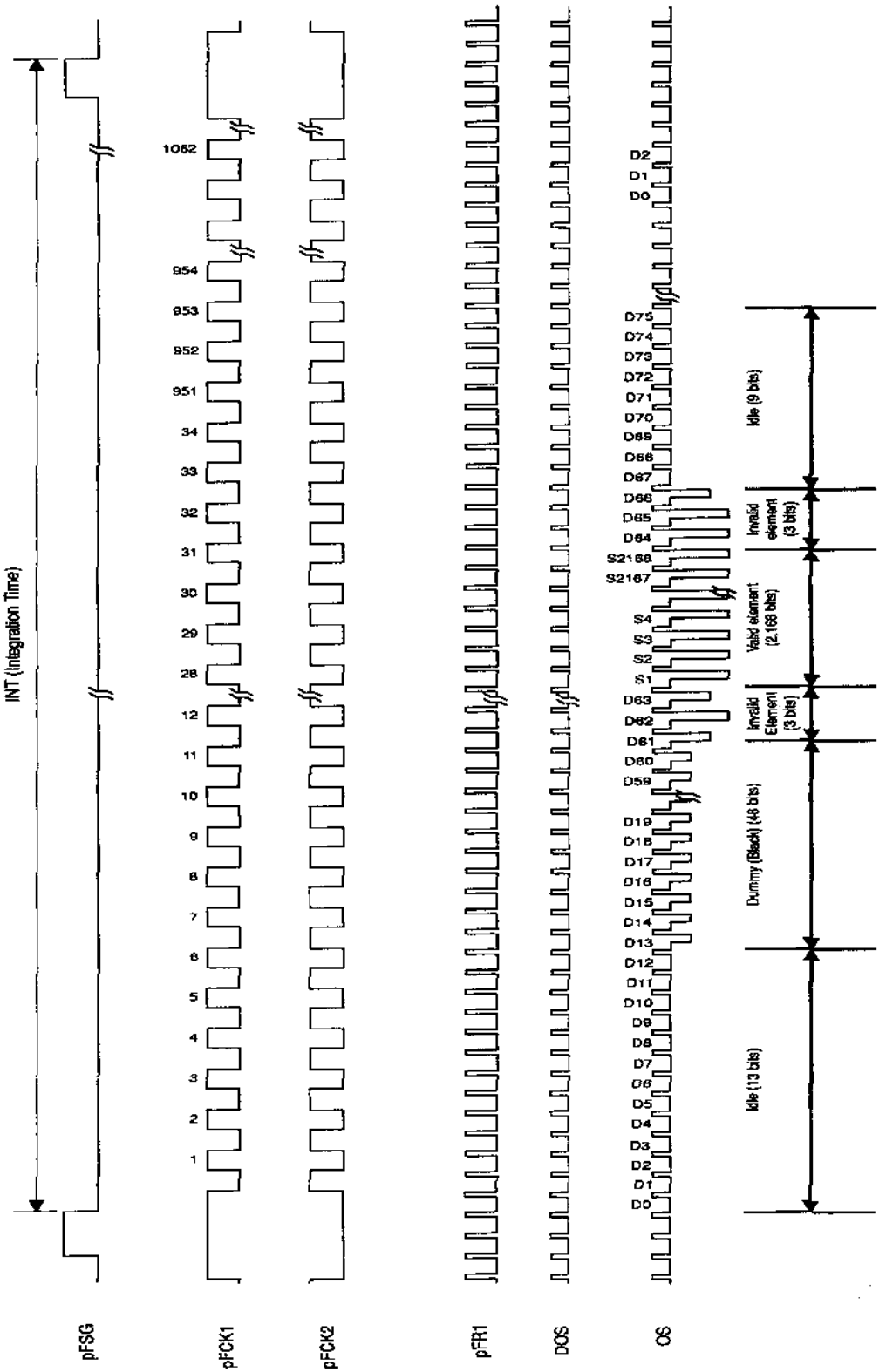
(1) CCD

The scanning capability of the CCD (TCD1206D) is 1,728 bits per line.

SIGNAL MEANING

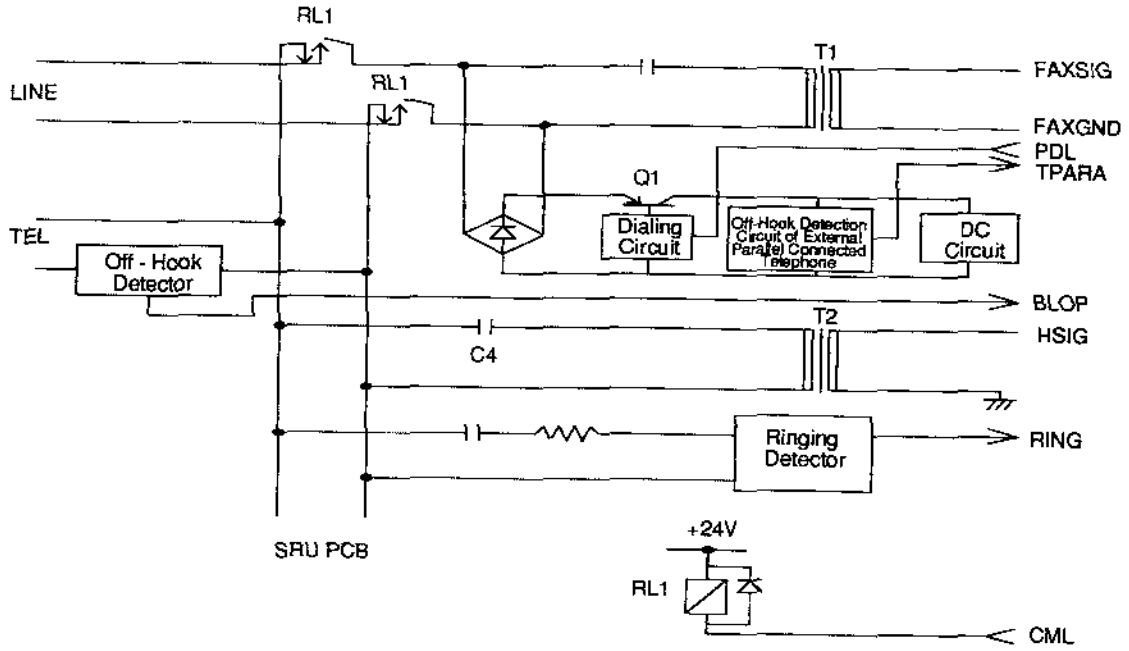
pFSG :Shift clock gate (Tint = 10 ms)
pFCK1 :CLOCK(= 576 kHz)
pFCK2 :CLOCK(= 576 kHz)
pFR1 :Reset Clock (+ 576 kHz)
OS :Signal Output
DOS :Compensation Output

6.3.3 Timing Chart



6.4 NCU Circuit

6.4.1 Block Diagram



6.4.2 Block Explanation

(1) Off-hook Detector

The circuit consists of the photo coupler PC4 and the input port IC3 on SC PC Board. When PC4 detects loop current flow, it emits a low active output signal (BLOP) to the CPU which monitors it for a specified time. If the CPU detects no change in the low signal level, it determines that the external telephone is Off-Hook.

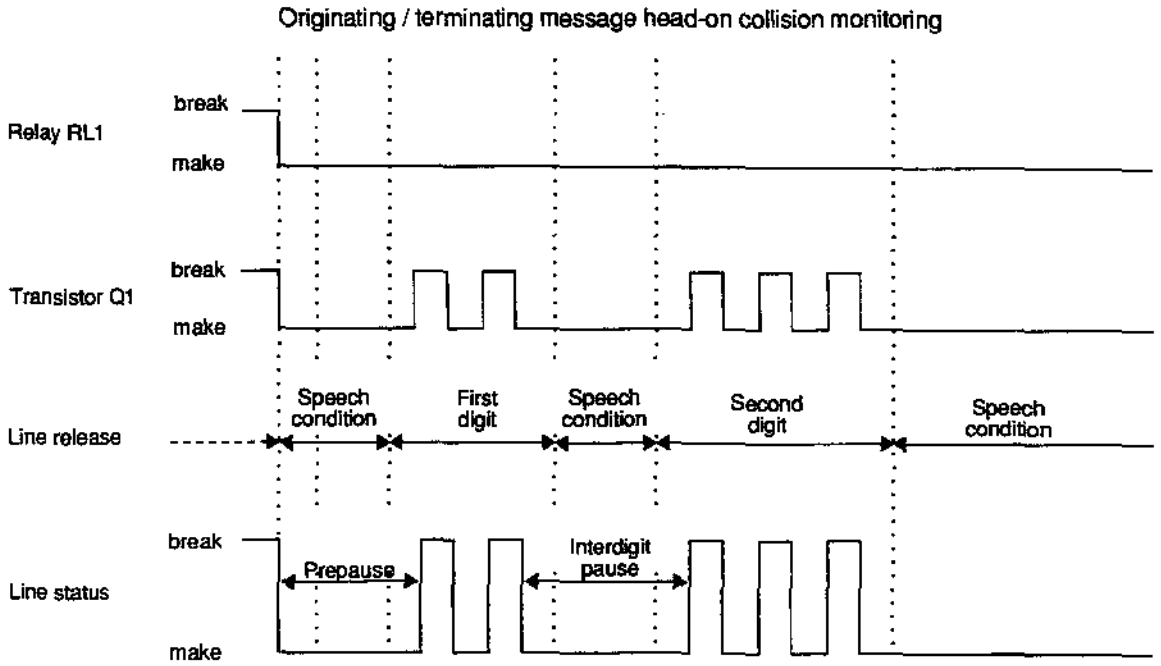
(2) Dial Pulse Generator

The circuit consists of Transistor Q1 and its peripheral circuit. The CPU on the SC PC Board controls all dial pulse generation sequences. The CPU turns relay RL1 and transistor Q1 on and off through the output port. The status of the relay and transistor during dialing is shown in the Dial Pulse Generation Timing Chart. When the absence of the terminating message is confirmed by the Off-Hook Detector, the CPU turns RL1 on to develop loop status (DC loop). After 4.5 seconds, the CPU turns Q1 on and off to generate dial pulses, making and breaking the loop by PDL signal.

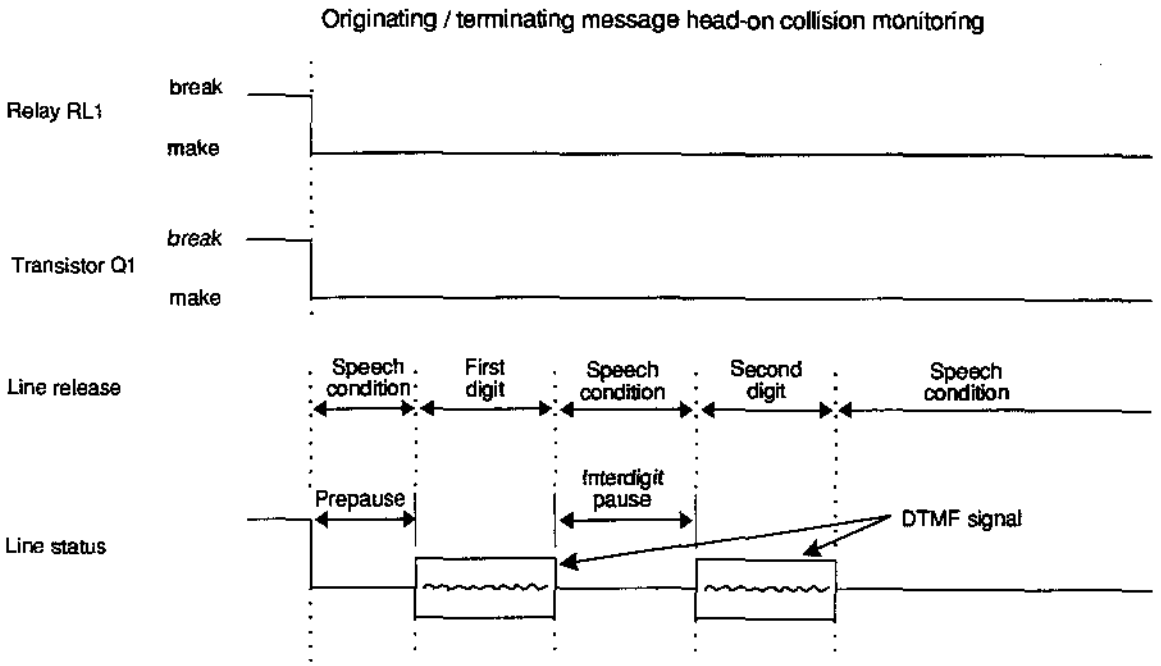
(3) DTMF Tone Generator

The circuit is incorporated in the MODEM on the SC PC Board. The DTMF Tone is conveyed to the telephone line using the same route as the facsimile signal (FAXSIG). The DTMF Tone selection is controlled by the CPU. The relay status during dialing is shown in the DTMF Tone Generation Timing Chart.

Dial Pulse Generation Timing Chart

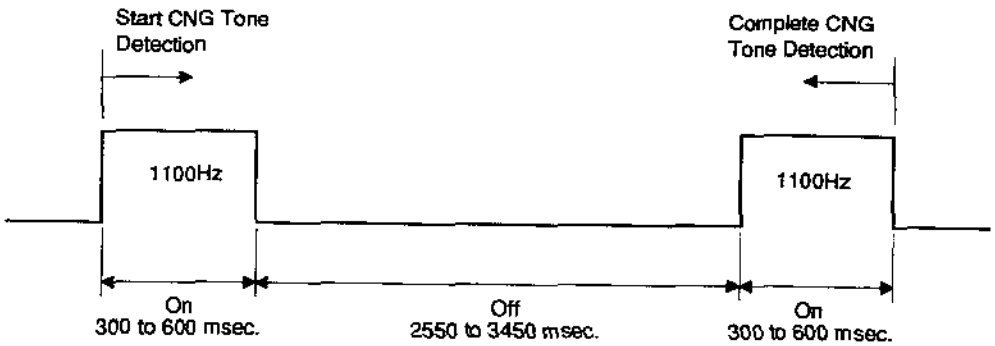


DTMF Tone Generation Timing Chart



(4) CNG Tone Detector

This circuit consists of Transformer T2 and capacitor C4. The CPU on SC PCB checks for the 1100 Hz signal on the FAXSIG and HSIG signal lines. If the detection time of On-Off-On is within a certain value, the signal is recognized as a CNG signal. If it is not within a certain value, CNG detection will restart from the beginning.



(5) Ring Detector

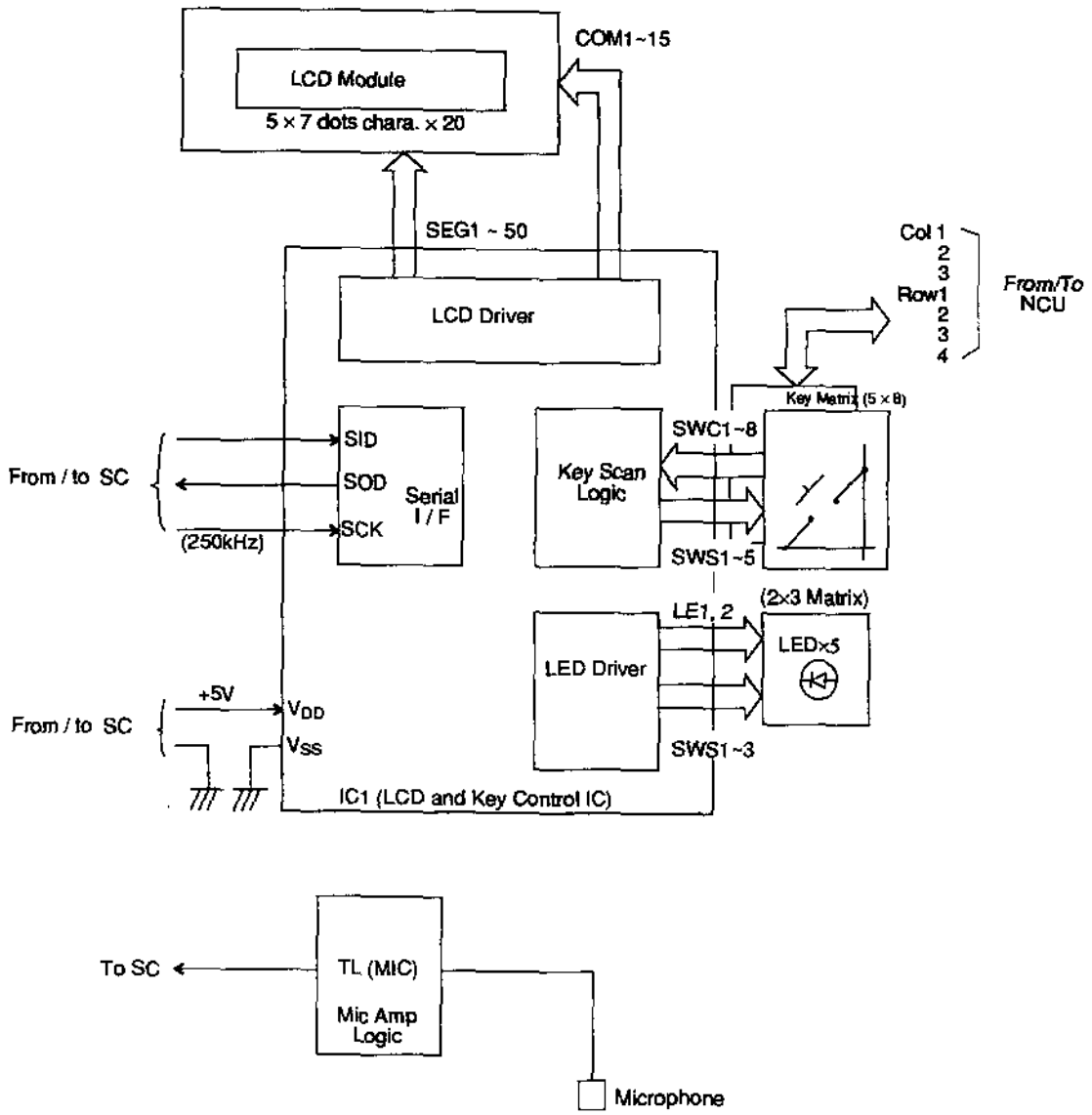
This circuit consists of a photocoupler, PC1, and its peripheral circuits. The ringing signal is a half-wave rectified in the Ring Detector, and transferred through the RING signal line to the CPU on the SC PCB. The CPU observes the signal to distinguish valid ringing signals from signals caused by chattering.
PC5 is used for activating Ring signal when power failure is occured in separate with Ring signal to be sent to CPU on the SC PCB.

(6) Off-Hook Detection Circuits of External Telephone connected parallel (DZYC511 only)

This circuit consist of a photocoupler, PC11, and its peripheral circuits. When the Externally Connected Telephone is Off-Hook, a high active output signal (TPARA) is sent to the CPU on the SC PCB.

6.5 Control Panel

6.5.1 Block Diagram



6.5.2 Block Explanation

The Control Panel consists of the LCD display and LEDs, which display various status information. It is normally interfaced to the main CPU. Keyed input signals are received by the panel CPU and the data is transferred to the main CPU on the SC PCB.

(1) IC1 (LCD and Key Control IC)

IC1 consists of an LCD Driver, a Serial Interface, Key Scan Logic, and an LED Driver.

(a) *Serial Interface*

The Serial Interface is 16 bit serial interface with 125 kHz transfer clock. This interface receives the command which controls the *LCD and LED from the CPU through the SID signal line, and sends* the entered key data to the CPU through the SOD signal line.

(b) Key Scan Logic
The Key Scan Logic produces a low output level to each line of BUS SWS1~5, then checks the input level of BUS SWC1~8. When a key in the key matrix is pressed, the key is identified by the output line number of BUS SWS and Input line number of BUS SWC.

(c) LCD Driver
The LCD is driven by the one-quarter bias (one sixteenth duty) method. The frame frequency is 78.1Hz.

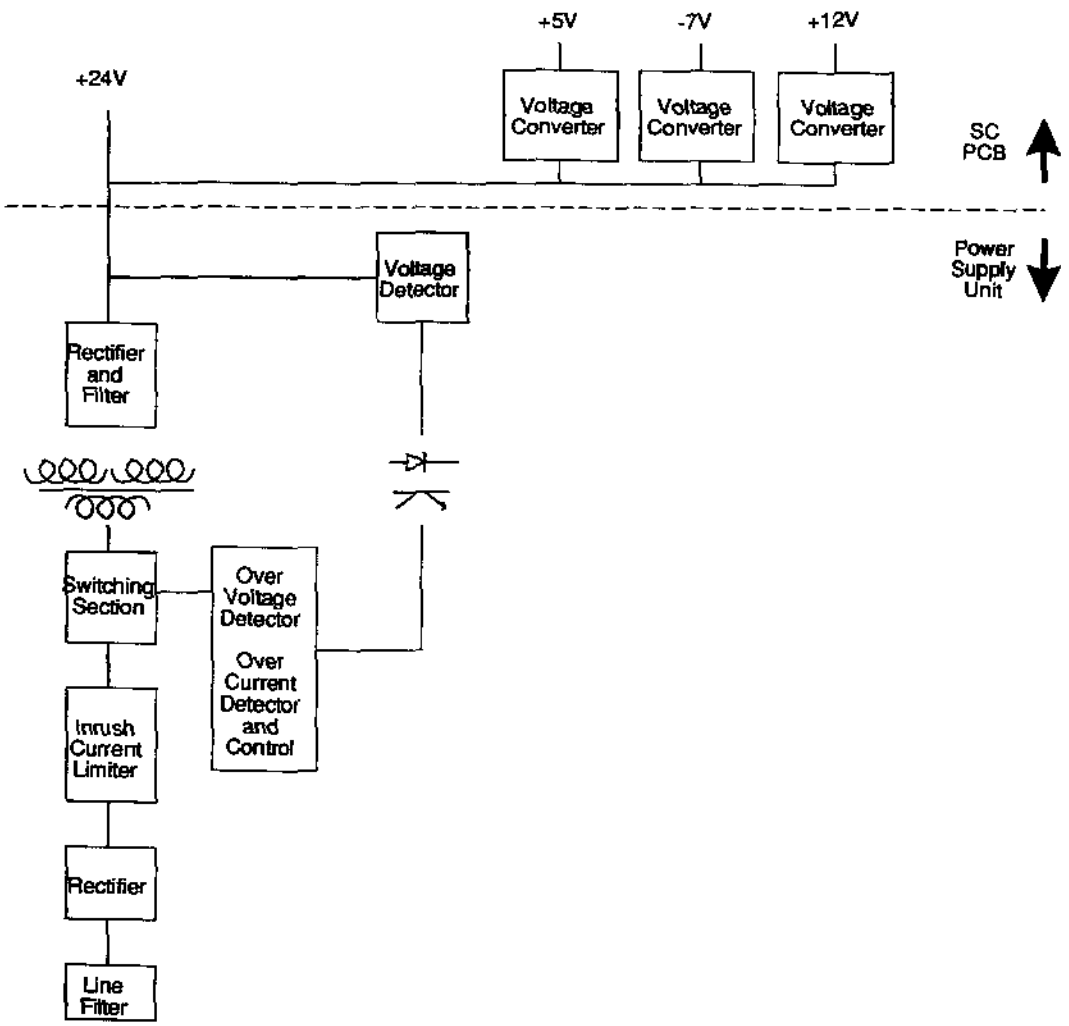
(d) LED Driver
LEDs are lit by a combination of the signals from the LED Driver, BUS LE1~2 and BUS SWS1~3.

(2) Mic Amp Logic
The signal from the Microphone is amplified and transferred to the SC PCB.

(3) Dialing on Power Failure (May vary depending on the country)
Country where this feature is equipped has double key matrix. Col 1~3, Row 1~4 Signal are sent directly to NCU.

6.6 Power Supply Unit

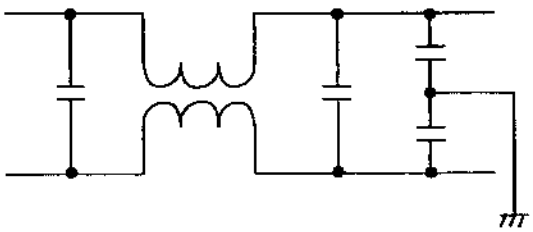
6.6.1 Block Diagram



6.6.2 Block Explanation

(1) Input Filter Circuit

AC line voltage travels to the rectifying circuit through the line filter. The line filter removes noise which may otherwise pass to the AC line from the power supply unit. It also protects the power supply unit from spikes which may pass into the unit from the AC line.



(2) Rectifying and Smoothing Circuit

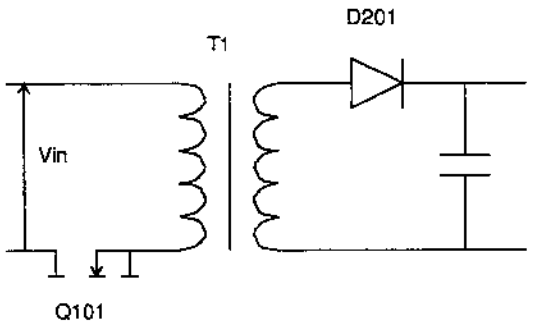
As soon as power is applied to the Power Supply Unit, AC line voltage is rectified by rectifier D101, which consists of 4 diodes. The output form D101 is smoothed by capacitor C109.

(3) Inrush Current Protection Circuit

When capacitor C109 is not charged by AC input, inrush current appears at the input side. Thermistor TH101 limits the inrush current.

(4) Main Switiching Circuit

The basic circuit is shown below. When the main switching element, Q101, is turned on, input voltage, Vin, is supplied to the primary winding of the transformer T1. However, no current will flow through diode D201 of the secondary side, due to reverse polarity of the secondary winding causing no power transmission within T1 but accumulation of the energy supplied to the primary winding. Then, when Q101 is turned off, the supply voltage to the primary winding is shut off, allowing D201 to conduct, releasing the energy accumulated in T1 to the circuit.



(5) Secondary Circuit (on SC PC Board)

+5V, -7V and +12V circuits are stabilized by regulator IC14, 15 and 16 respectively.

6.7 Automatic Switching Mode

Depending on the model number, there are 3 different automatic switching modes available: Fax/Tel, Fax/External TAM (Telephone Answering Machine) (UF-V40 only), and Fax/Built-in TAM (UF-V60 only). These modes are used for a single telephone line that shares fax and voice.

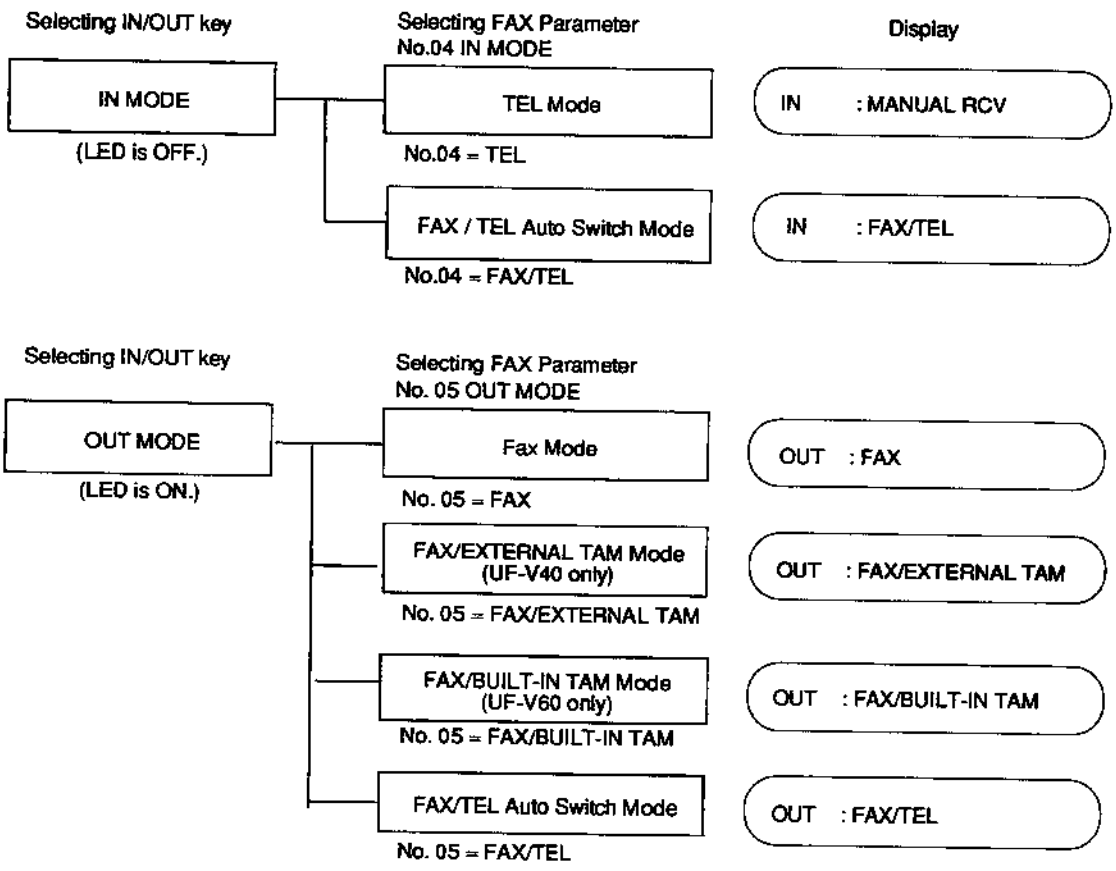
(1) Fax / Tel Automatic Switching Mode
This mode is used if the unit is connected on a telephone line which receives both fax and voice calls without a TAM connected.

(2) Fax / TAM Interface Automatic Switching Mode (UF-V40 only)
This mode is used if the machine is connected to a telephone line which receives both fax and voice calls and a TAM is connected.

(3) Fax / Built-in TAM Automatic Switching Mode (UF-V60 only)
This mode is used for the Built-in TAM when OUT mode is selected.

6.7.1 Mode Selection

The operation mode can be selected using a combination of the IN/OUT keys on the control panel and Fax Parameters.

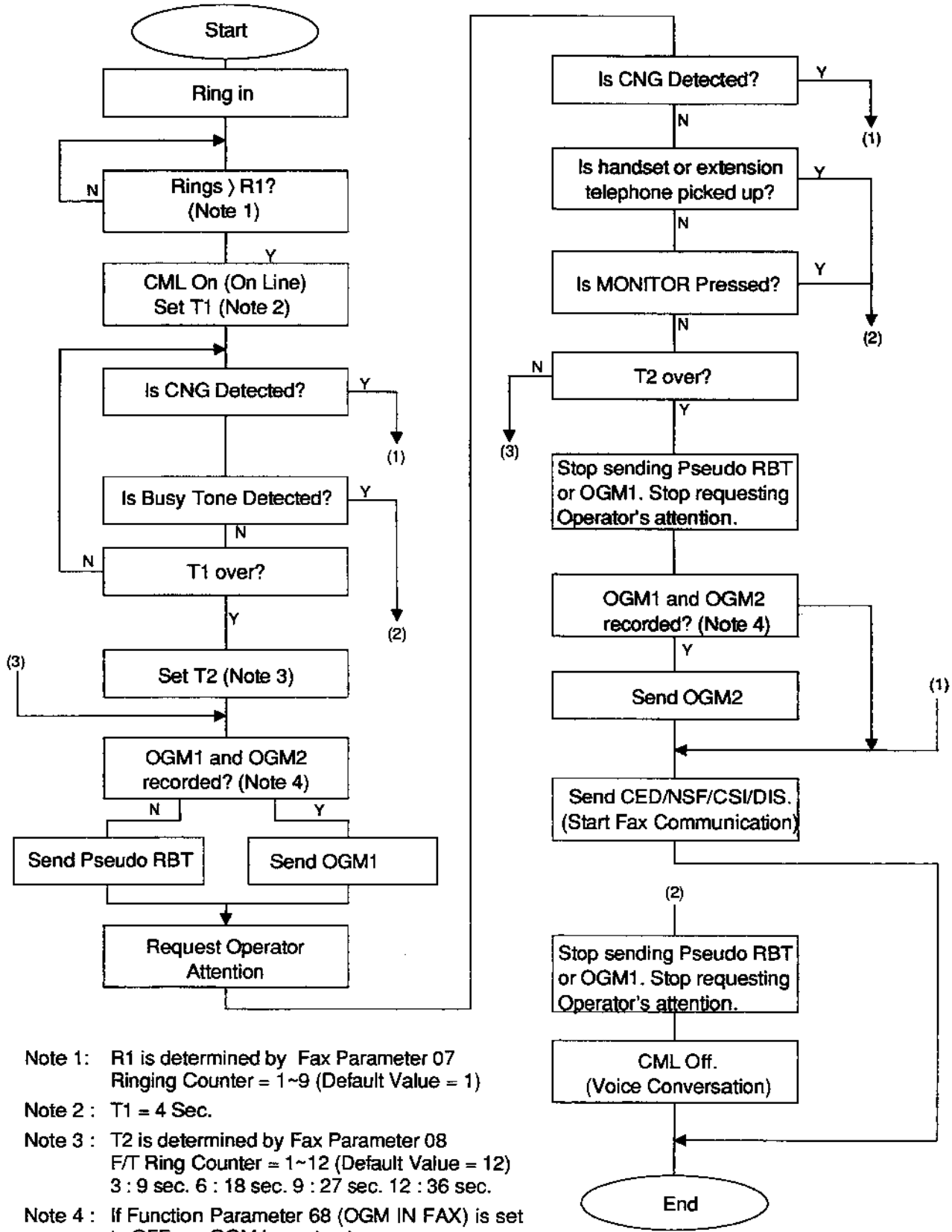


6.7.2 Fax / Tel Automatic Switching Mode

This mode is used for a single telephone line that is shared for Fax and Voice. When the Fax answers the incoming call, it sends a psuedo (false) ring-back tone to the caller or sends OGM1, OGM2. During this time, it monitors whether the call is from another Fax unit (Detecting CNG signal). If it is a Fax call, the unit automatically begins receiving the document. If it determines it is a Voice call, the unit will start ringing for the operator's attention.

1) Operation flow

The Fax/Tel Automatic Switching Mode operation flow is shown below.



Note 1: R1 is determined by Fax Parameter 07
Ringing Counter = 1~9 (Default Value = 1)

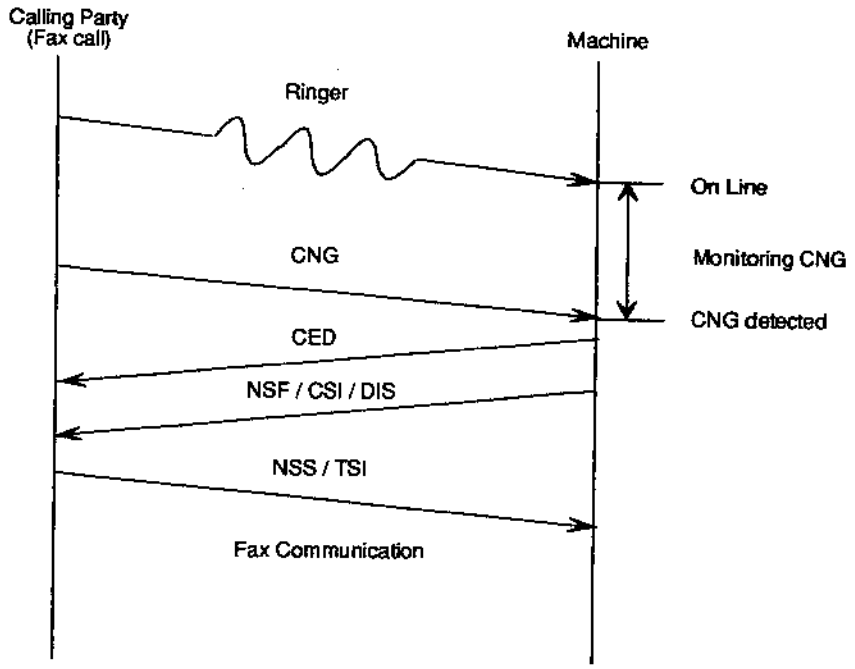
Note 2 : T1 = 4 Sec.

Note 3 : T2 is determined by Fax Parameter 08
F/T Ring Counter = 1~12 (Default Value = 12)
3 : 9 sec. 6 : 18 sec. 9 : 27 sec. 12 : 36 sec.

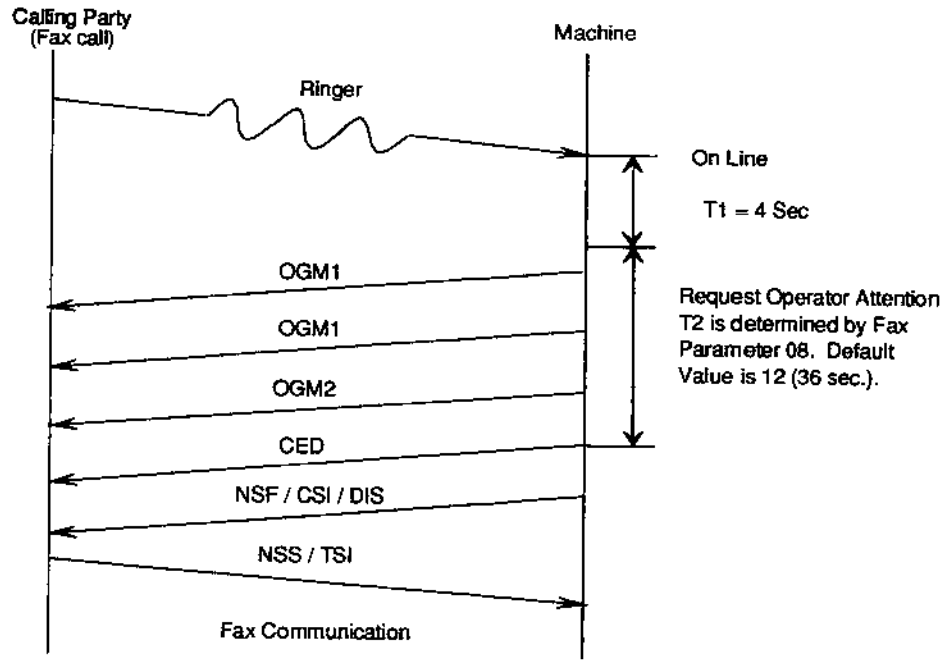
Note 4 : If Function Parameter 68 (OGM IN FAX) is set to OFF, no OGM is sent out.

2) Signal Sequence

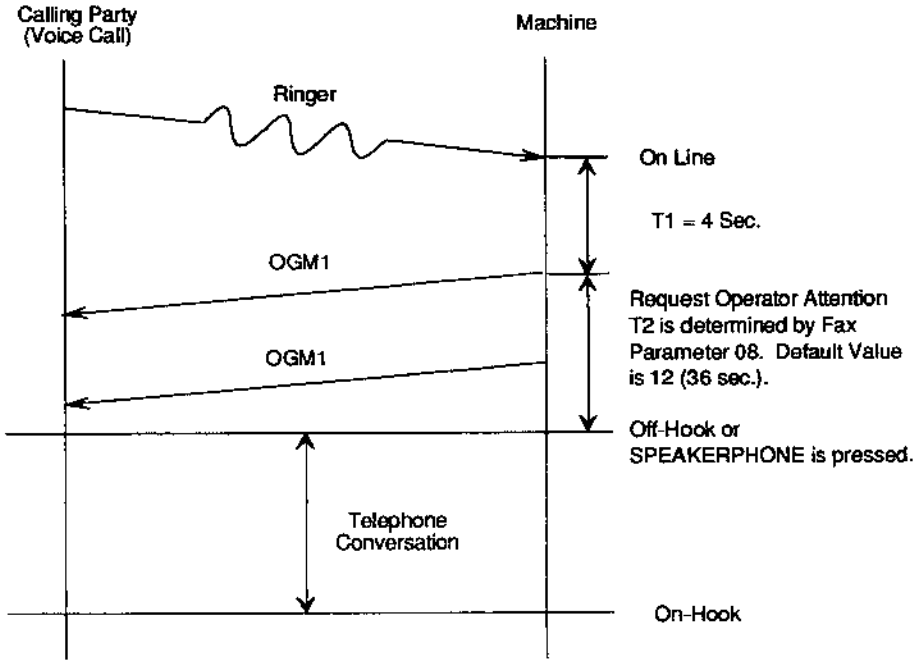
a) If the calling party is a Fax machine (with CNG signal)
If CNG signal is detected, the machine starts Fax communication procedure immediately.



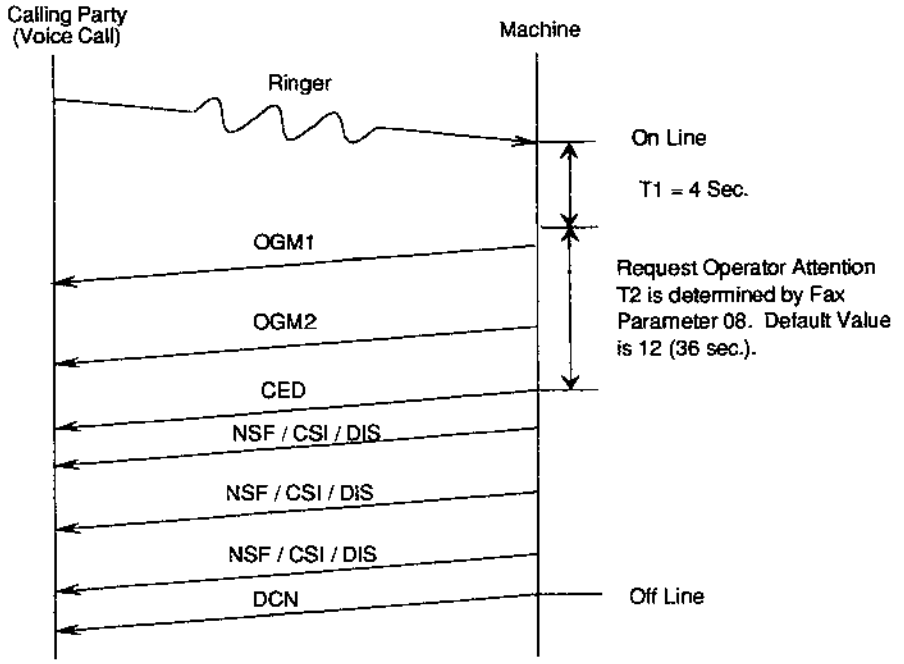
b) If the calling party is a Fax machine (without CNG signal)
When the calling party does not send a CNG signal, the unit will start requesting (ringing) for the operator's attention through the built-in speaker. If there is no response from the operator, the unit defaults to the Fax mode.



c) If the calling party is an operator
If the calling party is an operator, CNG will not be sent from the calling party. The unit will request an operator's attention through the built-in speaker while sending OGM1.



d) If the calling party is an operator and no one at the machine picks up the handset.
The machine will send Fax communication signals (CED / NSF / CSI / DIS) at the end of sequence, even though the machine does not detect the CNG signal.



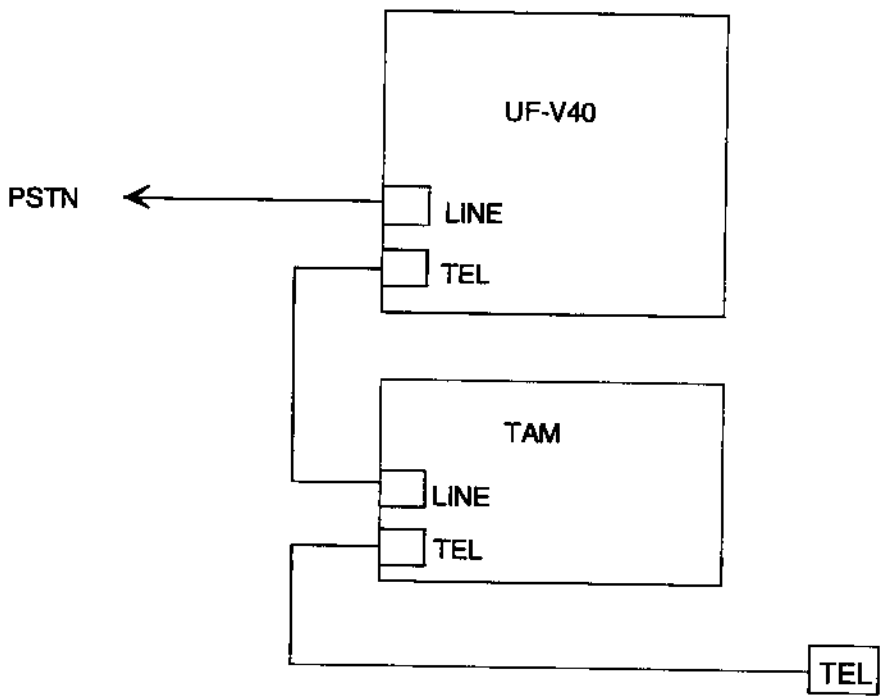
6.7.3 Fax / External TAM Automatic Switching Mode (UF-V40 only)

The Fax/External TAM Automatic Switching Mode is designed for connection of an external TAM (Telephone Answering Machine). This Interface automatically switches the telephone line between the Fax and the TAM. When a call is received, the TAM answers the call first. During that time, the fax also monitors the line to determine whether it is a voice or Fax call. If it is a voice call, the TAM will continue to function. If it is a fax call, the machine will automatically switch the line to fax and begin receiving the document.

(1) System Construction

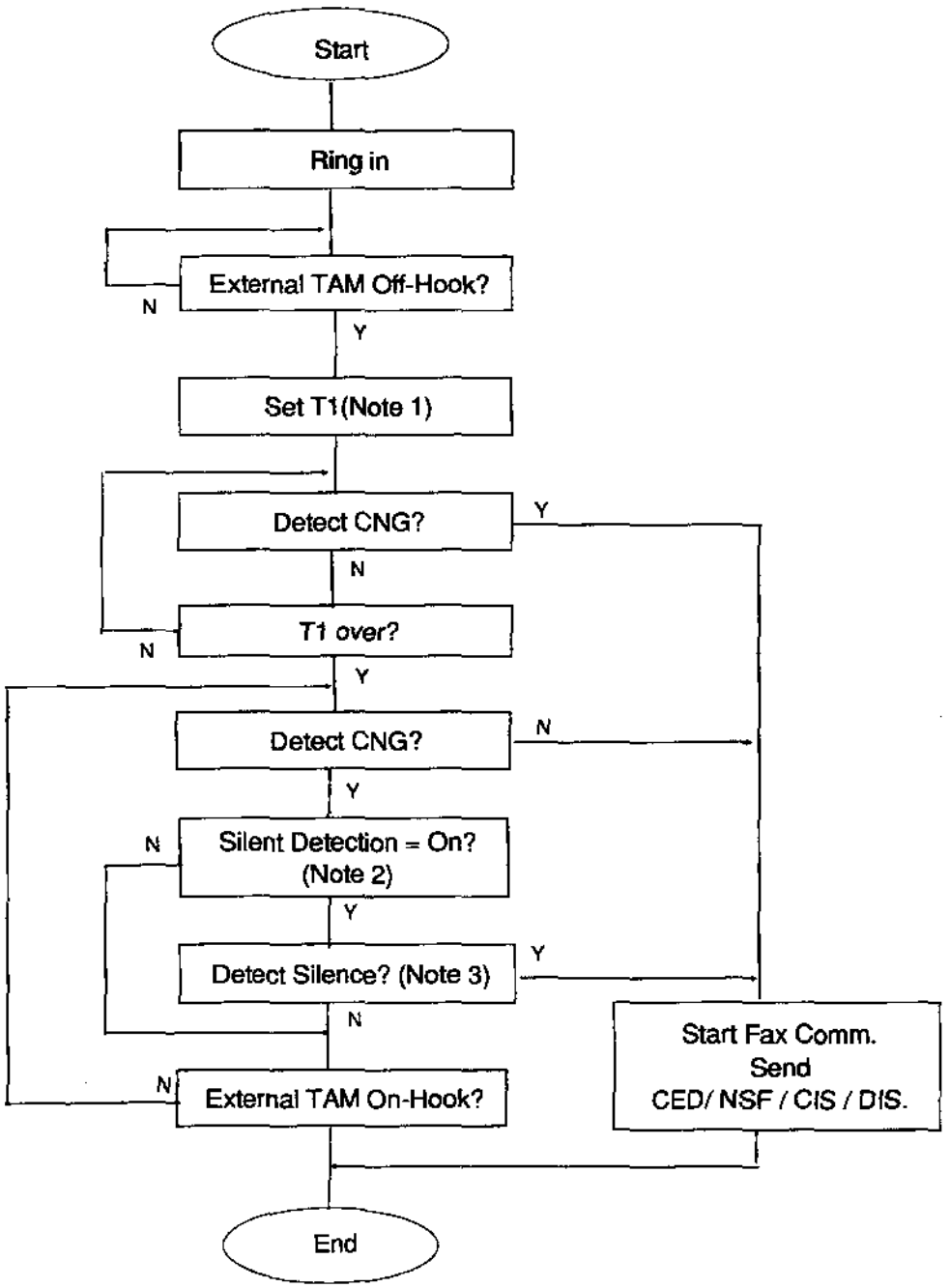
Construction of this system is shown below.

Note: The connection method for TAM depends on individual country's regulations.



(2) Operation flow

Fax / External TAM Interface Automatic Switching Mode operation flow is as follows.

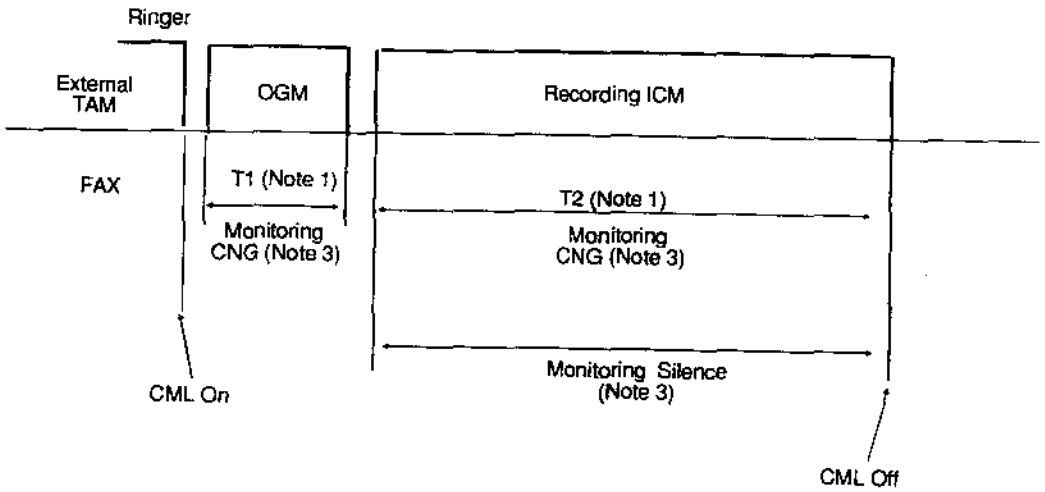


Note 1 : T1 is determined by Fax Parameter 40 External OGM Time (00 ~ 60 sec) Default Value is set to 15 sec.

Note 2 : Silent Detection is controlled by Fax Parameter 41 Silent Detection. Default Value is vary by countries.

Note 3 : If the silence lasts for the period set in Function Parameter 65 Silent Time, the machine will determine that the silence is detected. Default Value is set to 6 sec.

(3) Signal Detection Sequence



Note 1: T1 is determined by Fax Parameter 40 External OGM Time (00 ~ 60 sec). Default Value is set to 15 sec.

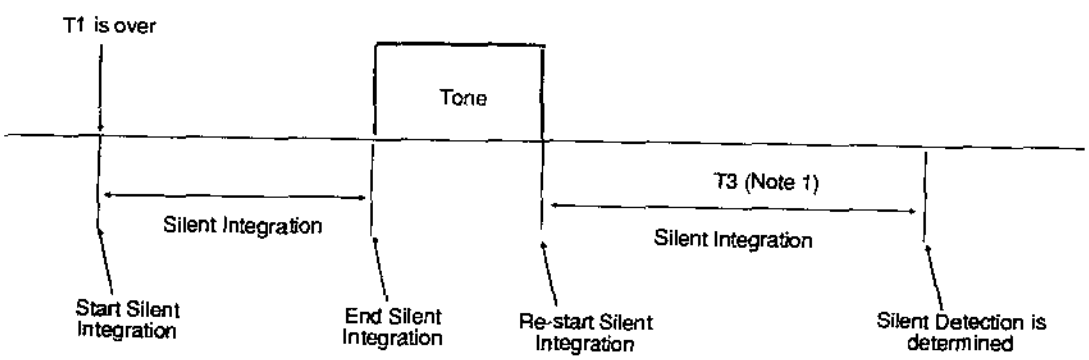
Note 2: T2 is determined by ICM (Incoming Message) recording time set in Fax Parameter 46. Default Value is 30sec.

Note 3: If CNG is detected, the machine will start Fax communication.

Note 4: Silence Detection function is controlled by Fax Parameter 41. Silence integration time is determined by the setting in Function Parameter 65. Default Value is 6 sec. If the silence is detected, the machine will start Fax communication.

(4) Silent (No Tone) Detection

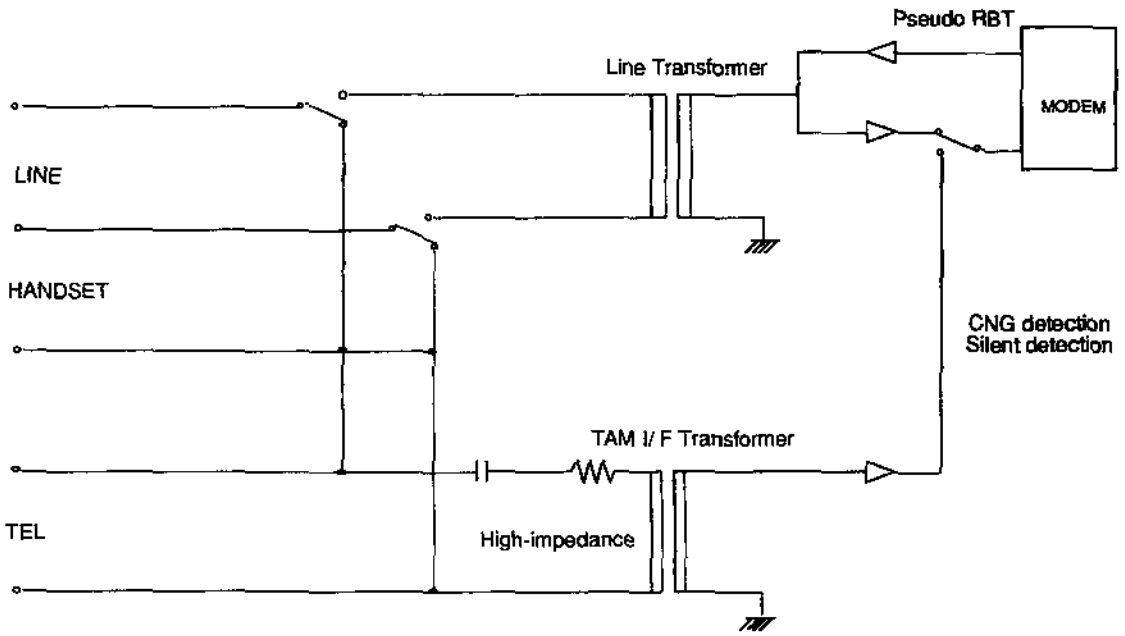
After T1 time (see above) the machine starts monitoring for the silence. If the silence lasts more than the set time, T3, (see below), the machine will determine the calling party is a Fax, then start Fax communication. If the silence is disturbed by a tone before the set time of T3 is completed, the machine will re-start integrating the silent time after no tone is detected.



Note 1: T3 is determined by the setting in Function Parameter 65.

(5) Hardware

The following figure shows CNG and Silent (No Tone) detection and Pseudo Ring Back Tone generating circuit. The CNG and Silent detection are checked by the Modem. The Ring Back Tone is also generated by the Modem. The machine detects CNG and Silent (No Tone) after the TAM seizes the telephone line. Therefore, CNG and silent (No Tone) cannot be detected through the Line Transformer. The Modem input is switched to the TAM I / F Transformer which has a high impedance.

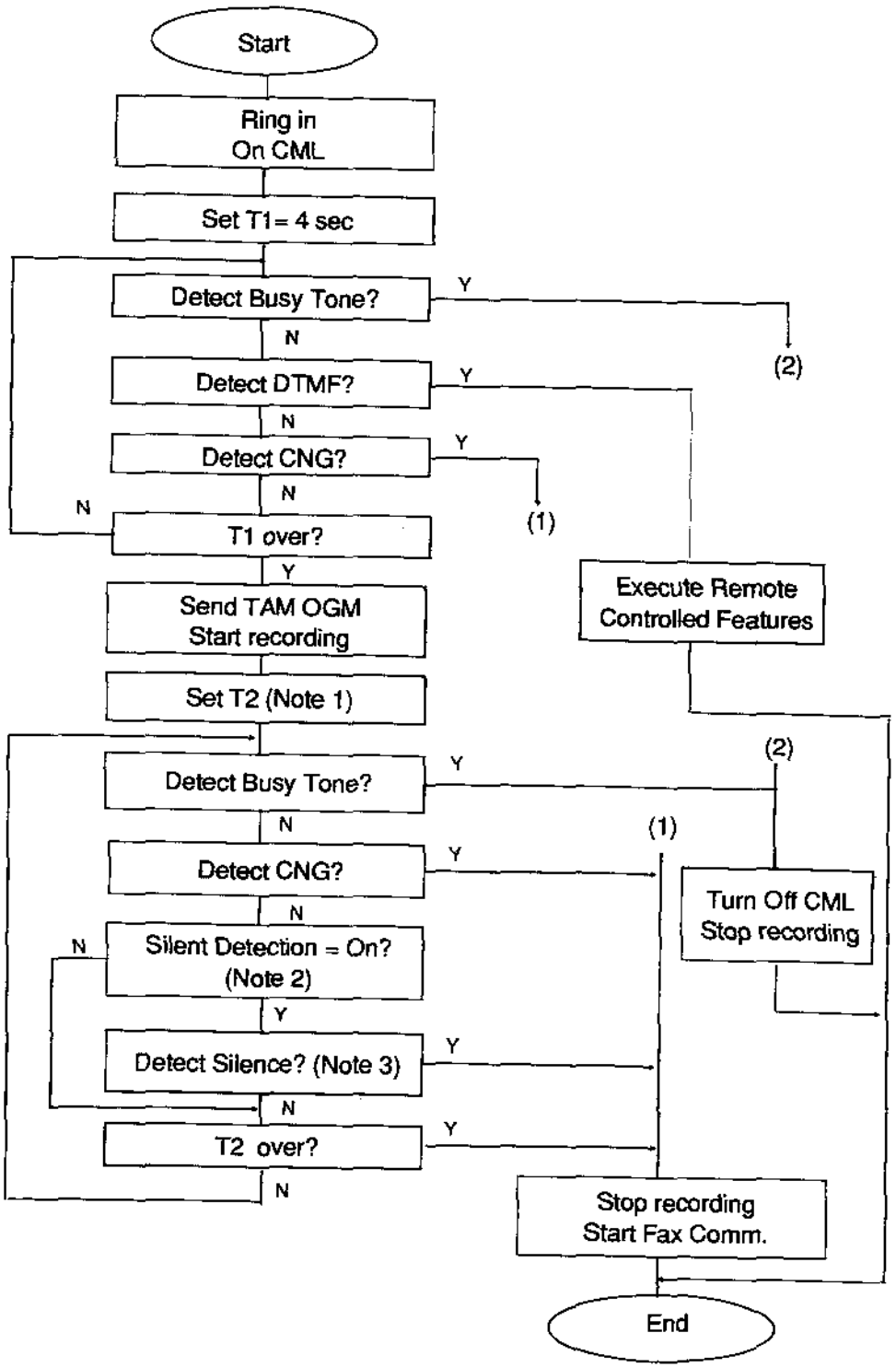


6.7.4 Fax / Built-In TAM Automatic Switching Mode (UF-V60 only)

The Fax / Built-in TAM Automatic Switching Mode is designed for the IC TAM included in the machine. This mode automatically switches the telephone line between the Fax and the TAM. When a call is received, the TAM answers the call first. During that time, the fax also monitors the line to determine whether it is a voice or a Fax call. If it is a voice call, the TAM will continue to function. If it is a fax call, the machine will automatically switch the line to fax and begin receiving the document.

(1) Operation flow

Fax / Built-In TAM Automatic Switching Mode operation flow is as follows.

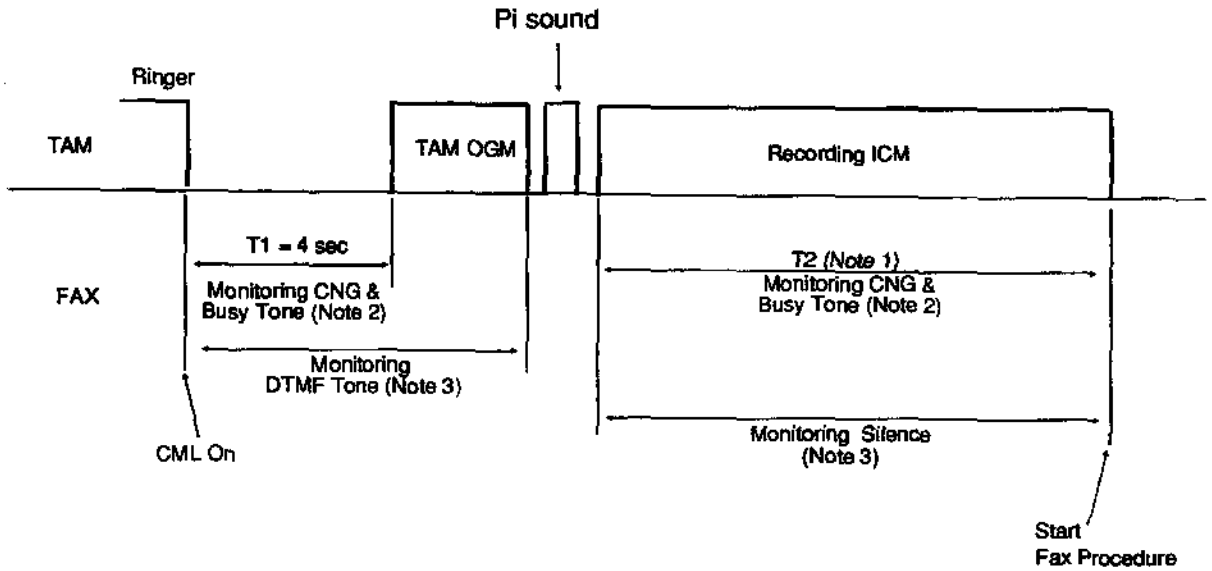


Note 1: T2 is determined by ICM recording time set in Fax Parameter 46.

Note 2: Silent Detection function is controlled by Fax Parameter 41.

Note 3: Silent time is determined by Function Parameter 65.

(2) Signal Detection Sequence



Note 1: T2 is determined by ICM (Incoming Message) recording time is set in Fax Parameter 46. Default Value is 30sec.

Note 2: If Busy Tone is detected, the machine will return to stand-by. If CNG is detected, the machine will start Fax communication.

Note 3: If DTMF is detected, the machine will start the Remote Controlled Features.

Note 4: Silent Detection function is controlled by Fax Parameter 41. Silent time is determined by the setting in Function Parameter 65. Default Value is 6 sec. If the silence is detected, the machine will start Fax communication.

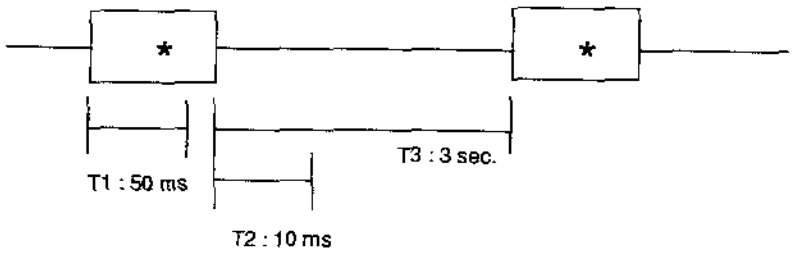
(3) Silent (No Tone) Detection

See section 6.7.3 (4) Silent (No Tone) Detection on Page 6-24.

6.8 Remote Reception

6.8.1 General Description

This feature allows the operator to activate the fax unit remotely, from an extension phone. This feature available on DTMF phones.



6.8.2 Limitation of Detection

The machine detects the signal to start fax communication by the integration time between the pressing of the * key as shown below.

T1 : Integration time to press the * key
T2 : No signal detection time
T3 : Waiting time for the * key to be pressed a second time

<Limitation of Detection>

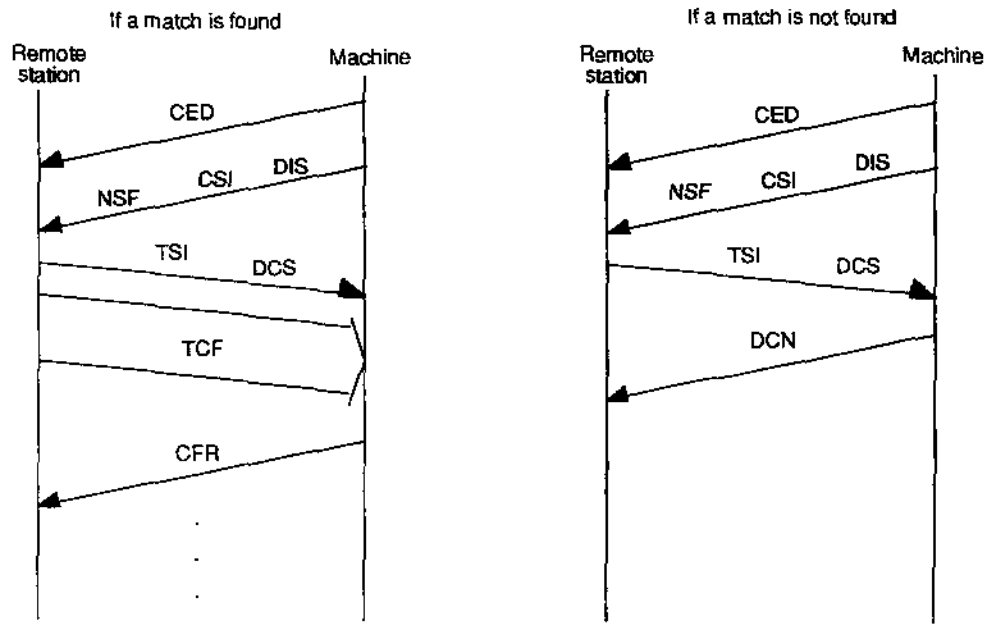
1. T3 timer is the waiting time between the first and second time the * key is pressed.
2. * signal detected in T2 timer is ignored.
3. Ignore the signals other than * detected in T2 timer. Then, wait for next * signal.
4. Ignore the signals other than DTMF detected in T3 timer. Then, wait for the next * signal.
5. If other than * signal is detected, re-start the detection sequence from the beginning.
6. If the T3 timer elapses without detecting a second *, re-start the detection sequence from the beginning.

6.9 Selective Reception

6.9.1 General Description

The machine has a feature that can prevent receiving unwanted documents (i.e. junk fax, direct mail, etc.). Before allowing reception of the document, the effective last 4 digits of TSI received from the remote station are compared with the effective last 4 digits of the telephone numbers programmed in each One-Touch or Abbreviated station. If a match is not found, the machine sends DCN to the remote station then handles the reception as an Error Code 406 without the alarm. Additionally, the reception is recorded in the Journal.

6.9.2 Signal Sequence



Note 1: When communicating with non-standard short protocol, the machine regards the ID in NSS, included in TCF, as the received ID.

Note 2: It is not an effective feature in Polling Reception (Polled) or Remote Diagnostics.

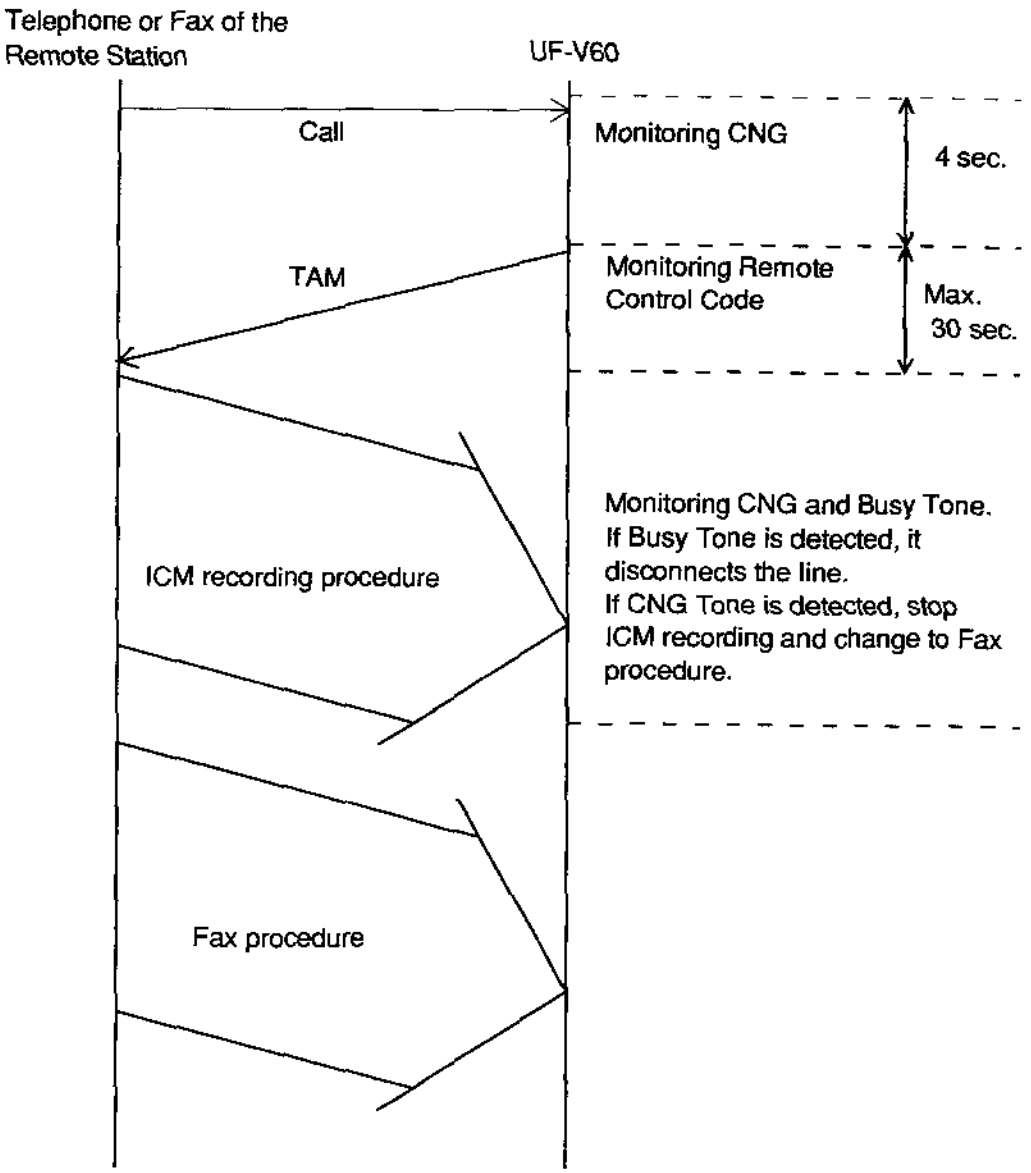
6.10 Fax / Built-in TAM Autoswitch (UF-V60 only)

(1)

The CNG signal is monitored over a 4-second silent period following reception of the incoming call. If the CNG signal is detected, the Fax Reception mode is set. If the CNG signal is not detected, the TAM OGM is played back to the caller. Subsequently the ICM recording mode is set.
If a busy tone is detected during ICM recording, the line is disconnected.
If a silent period is detected for 6 seconds, the Fax Reception mode is set.
Note that the Remote Control Code is monitored from the time the call is answered until the start of ICM recording. When the Remote Control Code is detected the unit awaits for the input of command.

This procedure is illustrated in the diagram below.

(2) Basic Procedure



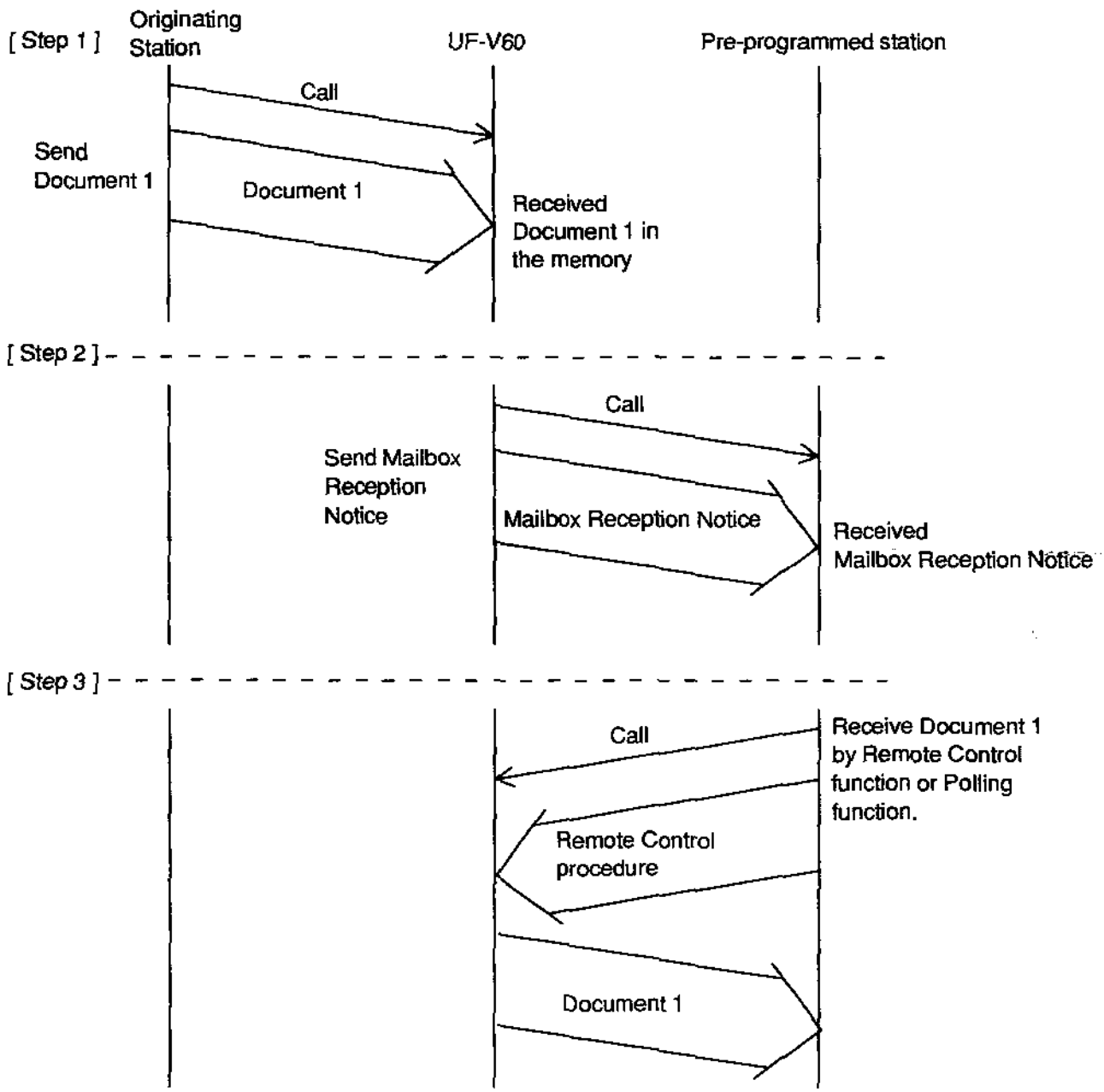
6.11 Personal Mailbox with Mailbox Reception Notice (UF-V60 only)

(1)

The machine can inform a specified station that it has received a document in the memory.After the machine receives the document in memory, it will call the telephone number programmed in advance and send a notice to that station. You can retrieve the document from the remote station by the Remote Controlled Feature (Document Retrieval from Memory).

This procedure is illustrated in the diagram below.

(2) Basic Procedure



6.12 Message Transfer (UF-V60 only)

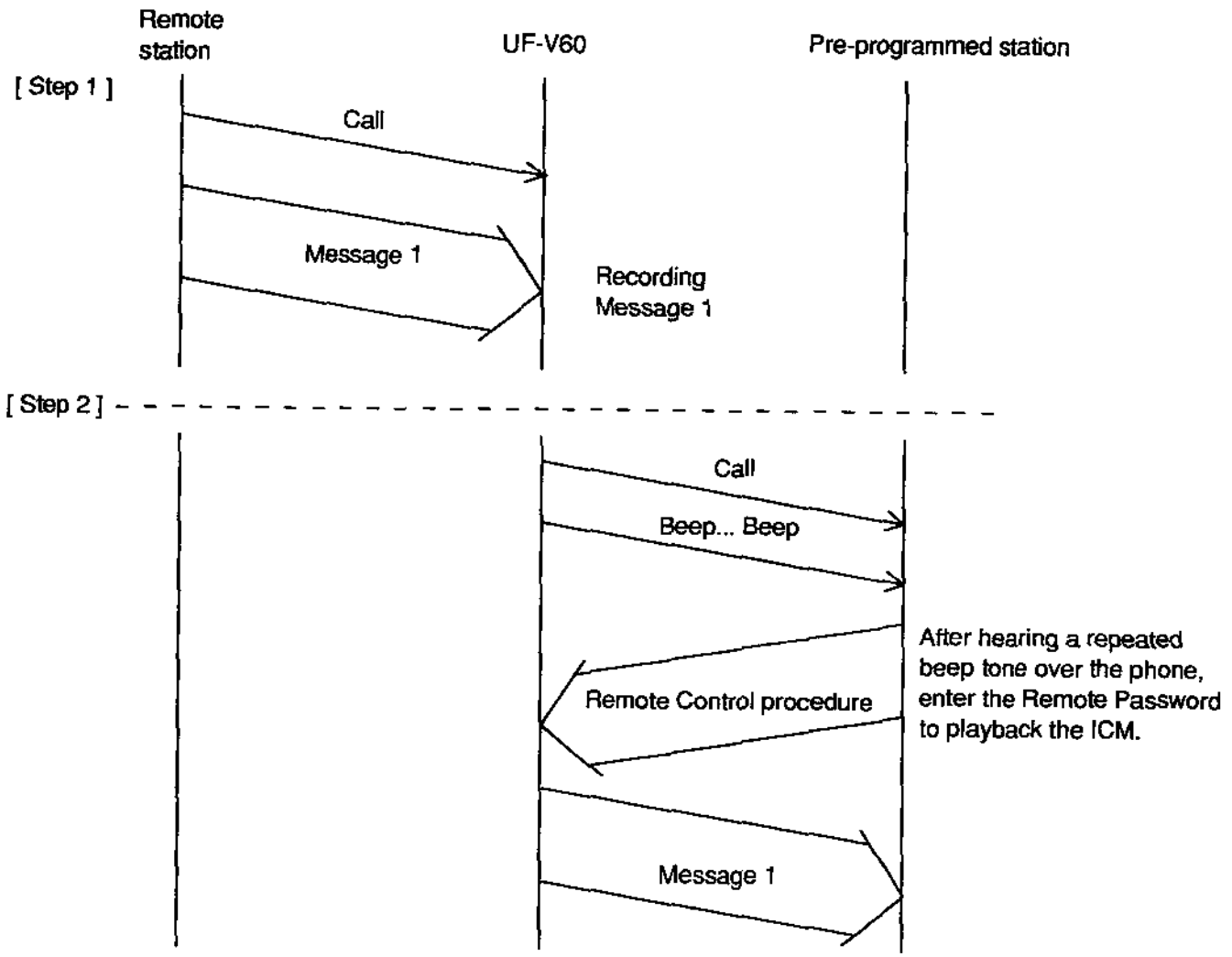
(1)

You can program the machine to transfer a ICM (Incoming Message) to the specified station. After a new message is recorded, the machine will automatically call the preprogrammed telephone number. You can listen to the message at the called telephone set by entering the password using the keypad on the telephone.

Note: The code must be entered using DTMF (Dual Tone Multi-Frequency).

This procedure is illustrated in the diagram below.

(2) Basic Procedure



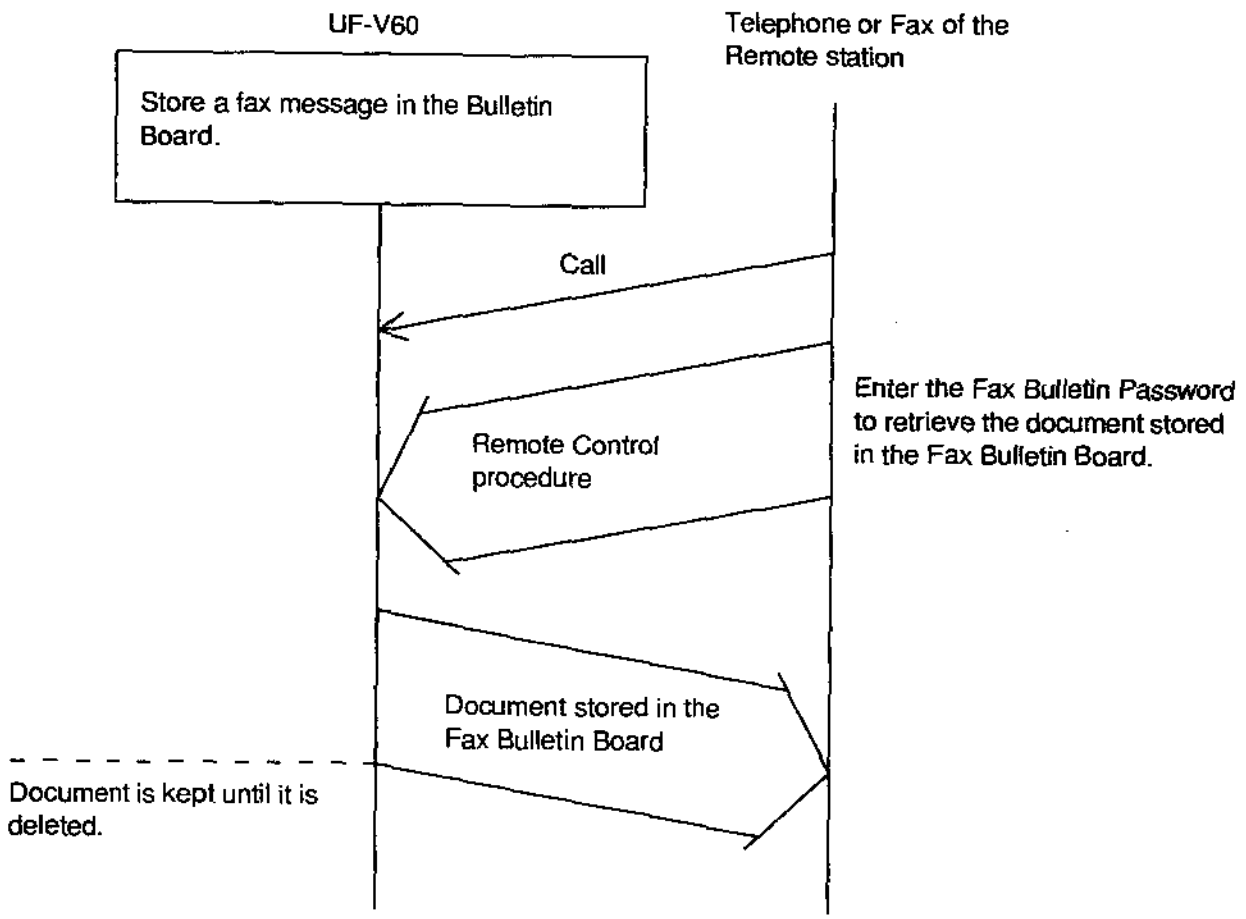
6.13 Fax Bulletin Board (UF-V60 only)

(1)

You can store a document into the Fax Bulletin Board in the machine's memory and let others use the remote controlled feature to retrieve the document. The document in the Fax Bulletin Board will be kept until you erase them.

This procedure is illustrated in the diagram below.

(2) Basic Procedure



6.14 Built in TAM (UF-V60 only)

The machine is equipped with built in TAM. Flash memory is adapted to record messages so even when a power failure has occurred, the messages will not be lost.

(1) TAM OGM (Outgoing Message) Recording

A TAM OGM can be recorded for Max. 30 seconds.

Note: The TAM OGM is set for 30 seconds, and OGM1 and OGM2 in FAX/TEL Automatic Switching mode are set for 4 seconds and 8 seconds respectively.

(2) Message Recording

It is possible to record up to 99 ICMs (Incoming Messages) or a maximum of 9 minutes in total. You can select recording time of 30 seconds, 60 seconds, or unlimited for the ICMs.

(3) Automatic Voice Message Transfer

You can program the machine to transfer a ICM (Incoming Message) to the specified station. After a new message is recorded, the machine will automatically call the preprogrammed telephone number. You can listen to the message at the called telephone set by entering the Remote Control Password using the keypad on the telephone.

Note: The code must be entered using DTMF (Dual Tone Multi-Frequency).

(4) Toll Saver

It is possible to know if there is any new ICM (Incoming Message) recorded in the memory when calling from outside for remote message retrieval, simply by listening to the number of rings before the machine answers. If there is any message in the memory, the machine answers after the second ring. If not, the machine answers after the fifth ring. Therefore, if you hear the third ring you can hang up to save the toll and time.

(5) Time Stamp

ICM recorded time (Day / Hour / Minute) will be displayed on the LCD when it is playing back.

(6) Memo / 2-Way Recording

Two types of memo recording are available and you can play back the memo from the control panel or by the Remote-Controlled features. Recording time for each memo will vary depending on the memory available. Each memo is counted as an ICM.

Memo Message	:	A message can be recorded from the built-in microphone.
2-Way Recording Memo	:	Conversation over the telephone can be recorded for a later reference.

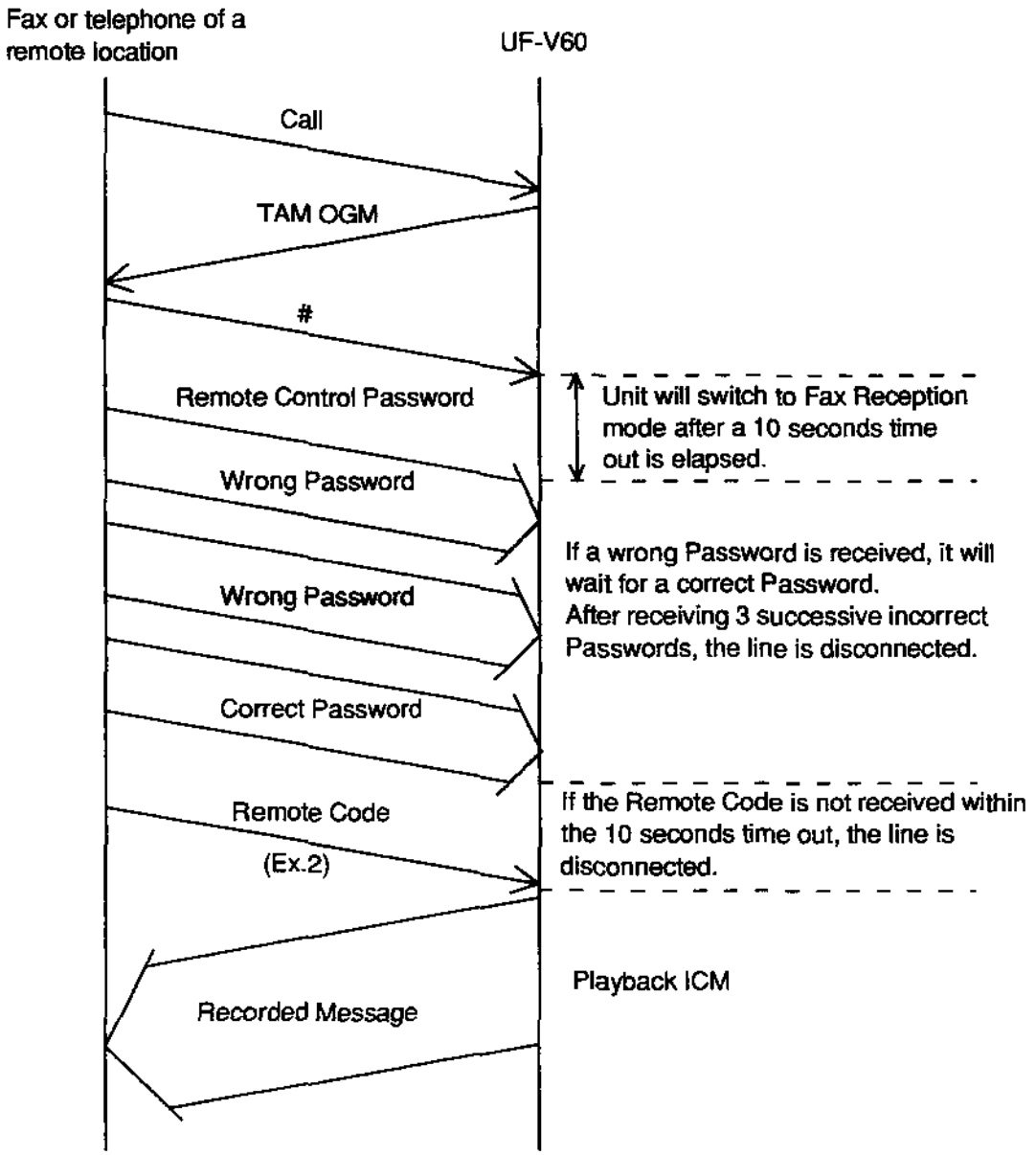
6.15 Remote Control Feature (UF-V60 only)

(1)

This function permits the retrieval of recorded messages or fax documents by sending remote commands from the remote location to the UF-V60.
Note that this function will only work with touch tone dialing from either a fax machine or a telephone.

The procedure for the Remote Control feature is illustrated below and the Remote Control Codes are indicated on the next page.

(2) Basic Procedure



(3) Remote Control Code Table

Function Name	Command Code	Sub. Code	Function
Repeat Message (I<<)	1	-	Repeats the message and starts playback from the beginning of the message.
Playback Message	2	-	Plays back from the first message.
Skip Message (>>I)	3	-	Skips to the beginning of the next message.
Erase All Messages	4	-	Erases all the recorded messages.
Record Greeting Message	5	-	Records a personal greeting message.
Message Transfer	6	1	Turns "ON" the Message Transfer function.
		2	Turns "OFF" the Message Transfer function.
		3	Setting the telephone number to be dialed after a message is recorded.
Mailbox Reception Notice	7	1	Turns "ON" the Mailbox Reception Notice function.
		2	Turns "OFF" the Mailbox Reception Notice function.
		3	Setting the telephone number to be dialed in order to send the Mailbox Reception Notice after a document is received in your Personal Mailbox.
Personal Mailbox	8	1	Turns "ON" the Personal Mailbox.
		2	Turns "OFF" the Personal Mailbox.
		3	Retrieves a document from the Personal Mailbox.
Fax Bulletin Board	9	1	Stores a document in the Fax Bulletin Board.
		2	Retrieves a document from the Fax Bulletin Board.
		3	Erases a document stored in the Fax Bulletin Board.
IN/OUT Mode	0	1	Switches to the OUT mode.
		2	Switches to the IN mode.

Upper Transmission & Control Panel Block (2/3)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
1021	DZNA000030	LCD Sheet(UF-V40)													1																			IJ
1021	DZNA000031															1																		
1021	DZNA000032																		1															
1021	DZNA000006																				1			1								1	
1021	DZNA000033			1					1																									
1021	DZNA000034									1																								
1021	DZNA000035																																	

Chapter 7
Exploded View & Parts List

Country Code	Country	Country Code	Country
AA	Austria	YA	Argentina
AB	U.K.	YC	Others (200 V)
AC	Canada	YS	Others (100 V)
AD	Denmark	YE	Indonesia
AE	Taiwan	YF	Polland
AF	Finland	YG	Greece
AG	Germany	YH	Hungary
AH	Holland	YK	Kuwait
AJ	Spain	YM	Malyasia
AK	Hong Kong	YP	Pakistan
AL	Asutralia	YR	Russia
AM	Switzerland	YS	Saudi Arabia
AN	Norway	YT	Thailand
AP	Portugal	YU	U.A.E.
AQ	Ireland	YV	China
AR	Belgium	YW	South Africa
AS	Sweden	YX	Singapore
AT	Turkey	YY	Mid-South America (100 V)
AU	U.S.A.	YZ	Mid-South America (200 V)
AV	France		
AW	New Zealand		

7.1 Upper Transmission & Control Panel Block (1/3)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
1010	DZCG000014	Control Panel Assy(UF-V40)	1																															IE
1010	DZCG000015				1																													
1010	DZCG000016						1																											
1010	DZCG000017										1																							
1010	DZCG000018														1																			
1010	DZCG000019															1																		
1010	DZCG000020																		1															
1010	DZCG000008																				1													

Upper Transmission & Control Panel Bicok (3/3)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
1022	DZNA000053	Panel Sheel(UF-V60)							1																									2K
1022	DZNA000057									1																								
1022	DZNA000054										1																							
1022	DZNA000055														1																			
1022	DZNA000070															1																		
1022	DZNA000056																		1															
1022	DZNA000010					1						1	1	1				1		1	1		1	1	1	1	1	1	1		1	1	1	
1022	DZNA000058																													1				
1023	DZKB000006	LED Window	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5K
1030	DZKB000006	Button A	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5H
1030	DZKB000002			1				1	1																									
1031	DZKB000019	Button B	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6J
1031	DZKB000018			1				1	1																									
1032	DZKB000008	Button C	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5G
1032	DZKB000004	Button C		1				1	1																									5G
1040	DZKM000001	Click Sheel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6J
1050	DZYC0543AA	Panel PC Assy(UF-V40)	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	7K
1050	DZYC0543BA	Panel PC Assy(UF-V40)		1						1																				1				
1050	DZYC0543AB	Panel PC Assy(UF-V60)	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	
1050	DZYC0543BB	Panel PC Assy(UF-V60)		1						1																				1				
1060	DZDS000001	Microphone	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5F
1061	DZJM000006	Microphone Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5F
1070	DZFP000012	Earth Strap	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6G
1080	DZJA000009	Upper Trans mission Chassis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6E
1081	DZJM000008	Plastic Film	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7C
1082	DZJM000007	Plastic Film	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8B
1090	DZLM000001	Bush	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6A,6C,6D,7C
1100	DZLF000001	Gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7E
1110	DZLA000002	Document Exit Roller	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7B
1120	DZLA000001	Feed Roller	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7B
1130	DZLK000001	Timing Belt	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7D
1140	DZJM000002	Guide Spring Plate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4D
1150	DZJN000007	ADF Separetor Rubber	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4D
1160	DZJM000003	Pressur Plate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3C
1170	DZKN000027	Coil Spring	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3C
1180	DZJM000004	S-Stopper	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3A
7B	XTB26+6J	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7F

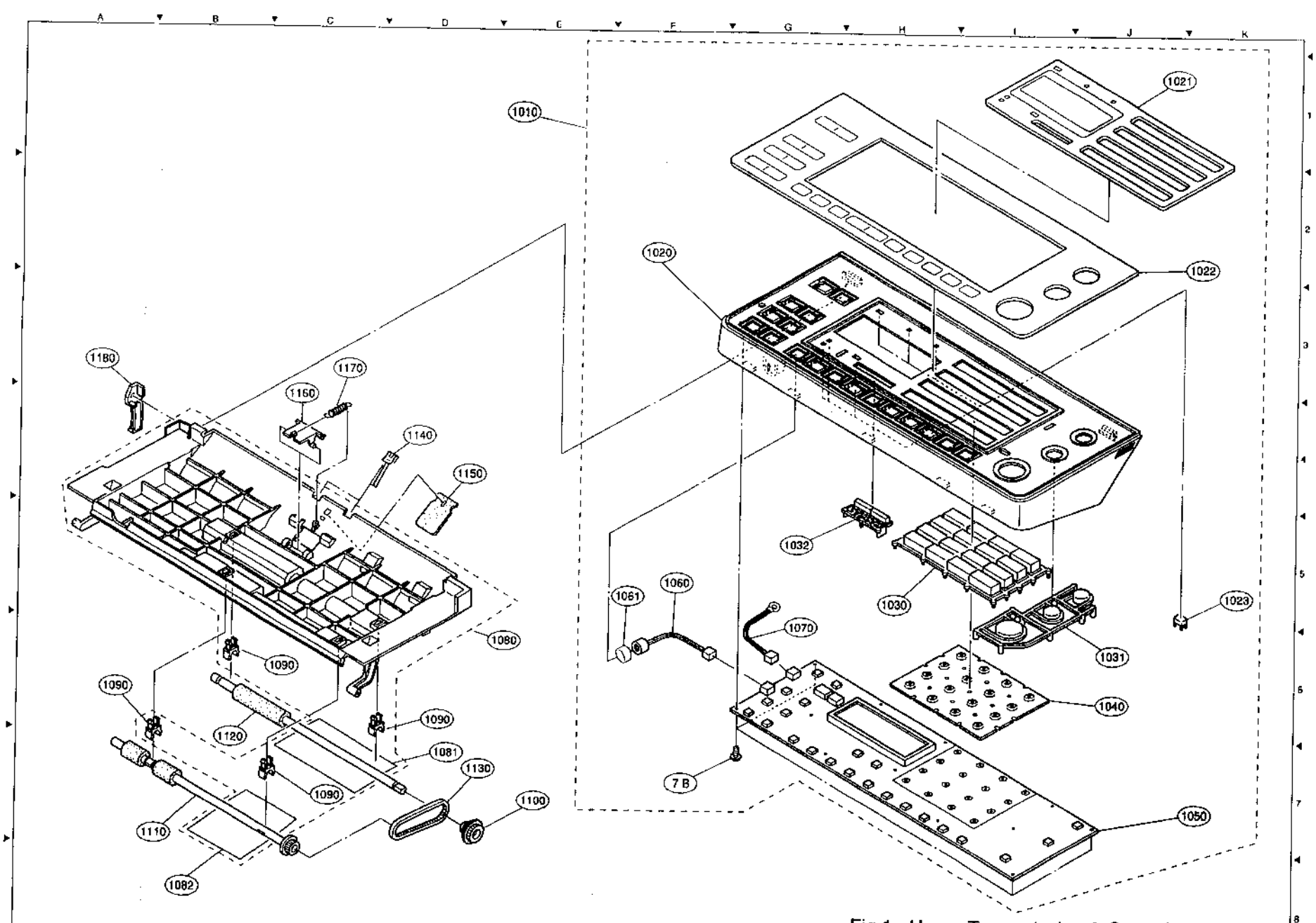


Fig.1 : Upper Transmission & Control Panel Block

Note

7.2 Base Block & Optical Unit Block (1/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
2020	DZHP000005	Scanner Block(A4)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	2D
2020	DZHP000001	Scanner Block(B4)				1																							1					
2030	DZTC000001	Mirror 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4B
2031	DZTC000002	Mirror 2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2E
2032	DZTC000003	Mirror 3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4F
2033	DZKP000001	Plate Spring	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4C,4F,4G
2040	DZFP000011	LED Assy(A4)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	3B
2040	DZFP000010	LED Assy(B4)				1																							1					
2041	DZJC000001	LED Holder	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3A
2051	DZJE000002	Scanner Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6C
2060	DZTE000001	Scanner Glass	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1C
2070	DZYC0512A	NCU PC Board Assy	1																															1I
2070	DZYC0512B			1																														
2070	DZYC0512D				1																													
2070	DZYC0512E					1																												
2070	DZYC0512F						1																											
2070	DZYC0512G							1																										
2070	DZYC0512H								1																									
2070	DZYC0512I									1																								
2070	DZYC0512J										1																							
2070	DZYC0512K											1																						
2070	DZYC0512L												1																					
2070	DZYC0512M													1																				
2070	DZYC0512N														1																			
2070	DZYC0512P															1																		
2070	DZYC0512Q																1																	
2070	DZYC0512R																	1																
2070	DZYC0512S																		1															
2070	DZYC0558T																			1														
2070	DZYC0511U																				1			1		1							1	
2070	DZYC0512V																					1												
2070	DZYC0512W																						1											
2070	DZYC0512YW																														1			
2070	DZYC0512YX																															1		
2070	DZYC0558M																									1								
2070	DZYC0558T																											1						
2070	DZYC0511YV																												1					
2080	DZYC0537U	Power Supply Unit1 (100V)				1															1												1	2J

Base Block & Optical Unit Block (2/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
2080	DZYC0557Y	Power Supply Unit1 (200V)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		2J
2090	ETXA53A8A	Power Supply Unit2 (100V)				1															1											1	2K
2090	ETXA53A8E	Power Supply Unit2 (200V)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		
2100	DZHA000001	Insulation Sheet	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4J
2110	DZJA000010	NCU Shassis Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5J
2111	DZHA000002	Plastic Sheet	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6K
2120	DZKB000001	Latch Button		1			1	1																										7K
2120	DZKB000005		1		1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2130	DZMC000002	Base Cover		1					1																									7I
2130	DZMC000016							1																										
2130	DZMC000003					1				1	1	1	1	1		1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2130	DZMC000004		1		1		1											1	1															
2140	DZMM000001	Rubber Foot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8G
2150	DZLA000006	Pinch Roller	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8G
2151	DZKG000001	Pinch Roller Shaft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8E
2152	DZKP000004	Plate Spring	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8E
2160	DZGB000001	Verification Stamp Assy																			1			1									1	7D
2160	DZGB000002		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1	1		
2161	DZHT000003	Verification Stamp Head																			1			1									1	7E
2161	DZHT000004		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1	1		
2170	DZJC000002	Micro Switch Bracket	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3G
2171	DZCH000001	Micro Switch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3H
2180	DZJM000032	Film(Only for UK)		1																														4E
1Y	XTB3+10J	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1J
A5	DZPB000001	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1G,1H,1I,2A,2D,2I,2K ,3B,3G,3J,5K,7D
A6	XSB4+10N	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4K
B2	P3X8TTSSMW	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2K
24	XYN4+F8	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2H
96	XYN26+6J	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1A

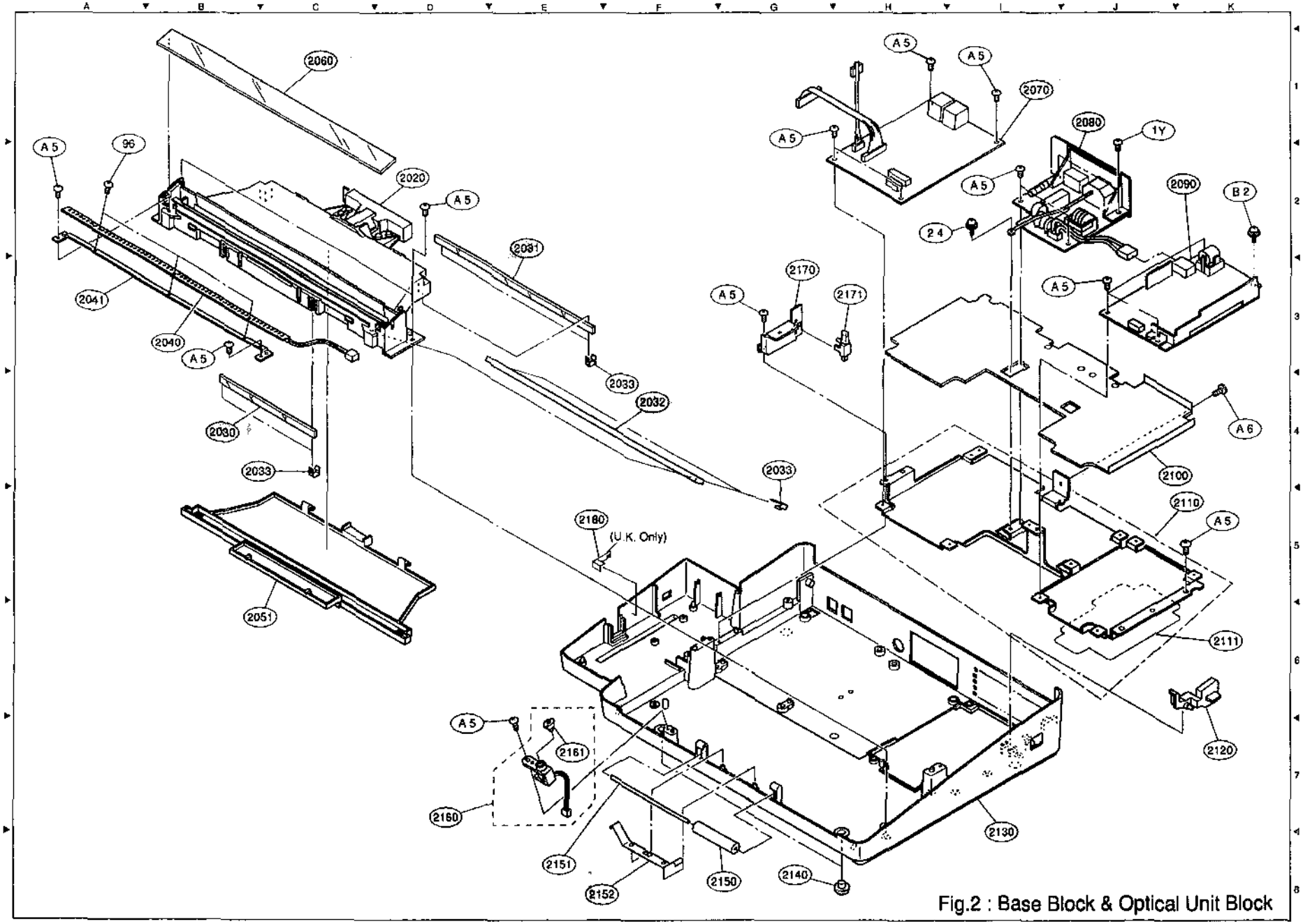


Fig.2 : Base Block & Optical Unit Block

Note

7.3 Lower Transmission Block (1/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
3010	DZYC0556UAEU	SC PC Board Assy(UF-V40)																			1													7B
3010	DZYC0556YAAA		1																															
3010	DZYC0556YAAB			1																														
3010	DZYC0556YAAD				1																													
3010	DZYC0556YAAE					1																												
3010	DZYC0556YAAF						1																											
3010	DZYC0556GAAG							1																										
3010	DZYC0556YAAH								1																									
3010	DZYC0556YAEE									1																								
3010	DZYC0556YAAJ										1																							
3010	DZYC0556YAAK											1																						
3010	DZYC0556YAAL												1																					
3010	DZYC0556YAAM													1																				
3010	DZYC0556YAAN														1																			
3010	DZYC0556YAAP															1																		
3010	DZYC0556YAAQ																1																	
3010	DZYC0556YAAR																	1																
3010	DZYC0556YAAS																		1															
3010	DZYC0556YAAT																			1														
3010	DZYC0556YAAW																						1											
3010	DZYC0556ZAYC																								1	1								
3010	DZYC0556YAYM																										1							
3010	DZYC0556YAYT																												1					
3010	DZYC0556YAYW																														(1)			
3010	DZYC0556YAYX																															1		
3010	DZYC0556YAYY																																1	
3010	DZYC0556YAAV																					1												
3010	DZYC0556ZAYV																													1				
3010	DZYC0556UBEU	SC PC Board Assy(UF-V60)																			1													
3010	DZYC0556YBAA		1																															
3010	DZYC0556YBAB			1																														
3010	DZYC0556YBAD				1																													
3010	DZYC0556YBAE					1																												
3010	DZYC0556YBAF						1																											
3010	DZYC0556GBAG							1																										
3010	DZYC0556YBAH								1																									
3010	DZYC0556YBEE									1																								
3010	DZYC0556YBAJ										1																							

Lower Transmission Block (2/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
3010	DZYC0556YBAK	SC PC Board Assy(UF-V60)										1																						
3010	DZYC0556YBAL												1																					7B
3010	DZYC0556YBAM													1																				
3010	DZYC0556YBAN														1																			
3010	DZYC0556YBAP															1																		
3010	DZYC0556YBAQ																1																	
3010	DZYC0556YBAR																	1																
3010	DZYC0556YBAS																		1															
3010	DZYC0556YBAT																			1														
3010	DZYC0556YBAW																				1													
3010	DZYC0556ZBYC																					1												
3010	DZYC0556YBYM																							1	1									
3010	DZYC0556YBYT																									1								
3010	DZYC0556YBYW																											1						
3010	DZYC0556YBYX																													1				
3010	DZYC0556UBYY																														1			
3010	DZYC0556YBAV																															1		
3010	DZYC0556ZBYV																				1													
3020	DZJA000005	Lower Transmission Chassis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2A
3030	DZLA000006	Pinch Roller A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5B
3031	DZKG000001	Shaft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4A
3032	DZKP000003	Spring Plate A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3A,4B
3040	DZLA000007	ADF Roller Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1B
3050	DZHC000001	Actuator	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3E
3060	DZHC000002	Actuator A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2D,2E
3061	DZHC000003	Actuator B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1D
3070	DZHP000003	Gear Bracket Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2I
3071	DZJA000006	Motor Bracket	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2H
3072	42S1N15DGNA	Stepping Motor A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4F
3073	42S1N15DCNZ	Stepping Motor B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2G
3074	DZLF000005	Gear A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3H,4G
3075	DZLF000006	Gear B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4H
3076	DZLF000007	Gear C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4F
3077	DZLF000004	Gear D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4G,4H
A5	DZPB000001	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1C,1G,2B,3E,3G,3H,8D

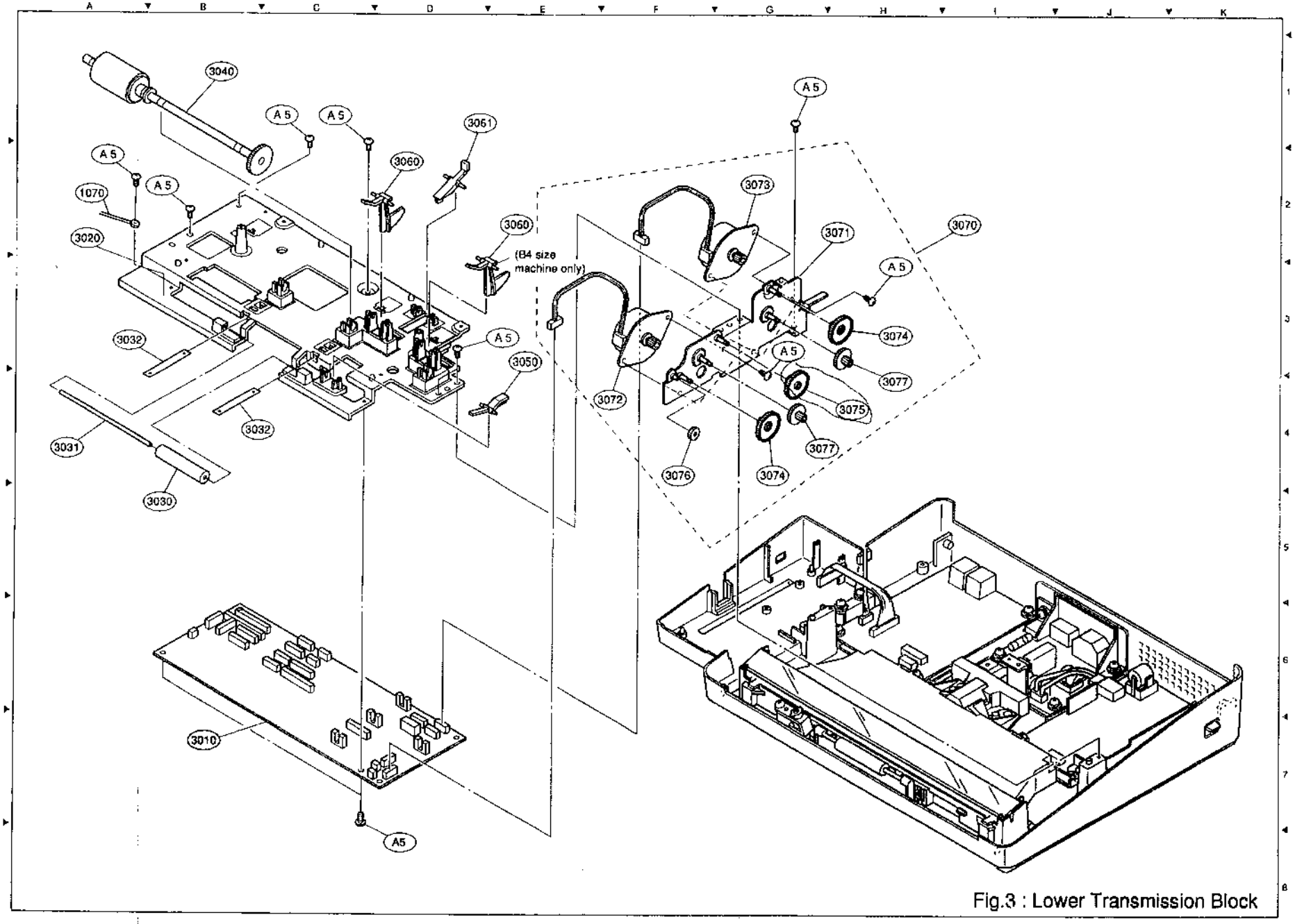


Fig.3 : Lower Transmission Block

Note

7.4 Recording Block & Handset Cradle Block (1/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
4010	DZYC0522U	SRU PC Board Assy																			1			1	1			1					1	6B
4010	DZYC0523A		1																															
4010	DZYC0523B			1																														
4010	DZYC0522D				1																													
4010	DZYC0522E					1																												
4010	DZYC0522F						1																											
4010	DZYC0524							1																										
4010	DZYC0522K											1																						
4010	DZYC0522H								1																									
4010	DZYC0522X									1																								
4010	DZYC0522J										1																							
4010	DZYC0522L												1																					
4010	DZYC0522M													1																				
4010	DZYC0522N														1																			
4010	DZYC0522Q																1																	
4010	DZYC0522R																	1																
4010	DZYC0523S																		1															
4010	DZYC0522W																						1											
4010	DZYC0522V																					1												
4010	DZYC0522YC																									1								
4010	DZYC0522YV																													1				
4010	DZYC0522YW																														1			
4010	DZYC0522YX																															1		
4010	DZYC0522P															1				1							1		1					
4030	DZFP000009	Speaker Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4B
4040	DZMA000002	Cradle Cover		1				1	1																									3A
4040	DZMA000008		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4050	DZKL000001	Hook Button	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4D
4060	DZJA000004	Pinch Roller Chassis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1B
4061	DZKP000002	Plate Spring	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1C,2D
4062	DZLA000005	Pinch Roller	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1C,1D
4070	DZYC0538	MIF PC Board Sensor Bord	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1F
⊗ 4080	DZHJ0560014	Cutter Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3G
4090	DZJF000005	R-Guide Plate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3E
4100	DZHT000005	Thermal Head Assy B4				1																								1				4G
4100	DZHT000006	Thermal Head Assy A4	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	
4101	DZJM000011	Plastic Plate A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5F
4110	DZJA000011	Thermal Head Chassis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5F

Recording Block & Handset Cradle Block (2/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
4111	DZKN000002	Spring Coil C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4E
4112	DZLF000008	Gear E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5G
4113	DZJM000012	Plastic Plate B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6G
4120	DZJE000003	Recording Paper Tray Assy		1				1	1																									2J
4120	DZJE000004	Recording Paper Tray Assy	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2J
4121	DZNK000006	Recording Installation Lable	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2J
4122	DZJM000001	Tape	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2J
4123	DZKN000005	Coil Spring	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2I,3J
4130	DZME000001	Separator A		1				1	1																									5J
4130	DZME000003	Separator A	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4K
4140	DZME000002	Separator B		1				1	1																									
4140	DZME000004	Separator B	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3H
4150	DZJM000032	Film		1																														
A5	DZPB000001	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4C
1Y	XTB3+10J	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1F,2D,2E,2G,3E,3F,4E,4G,5C,5F,6F
3P	DZPB000002	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4C,4H,5K
6Q	WH3X8TTS	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5A
																																		5G

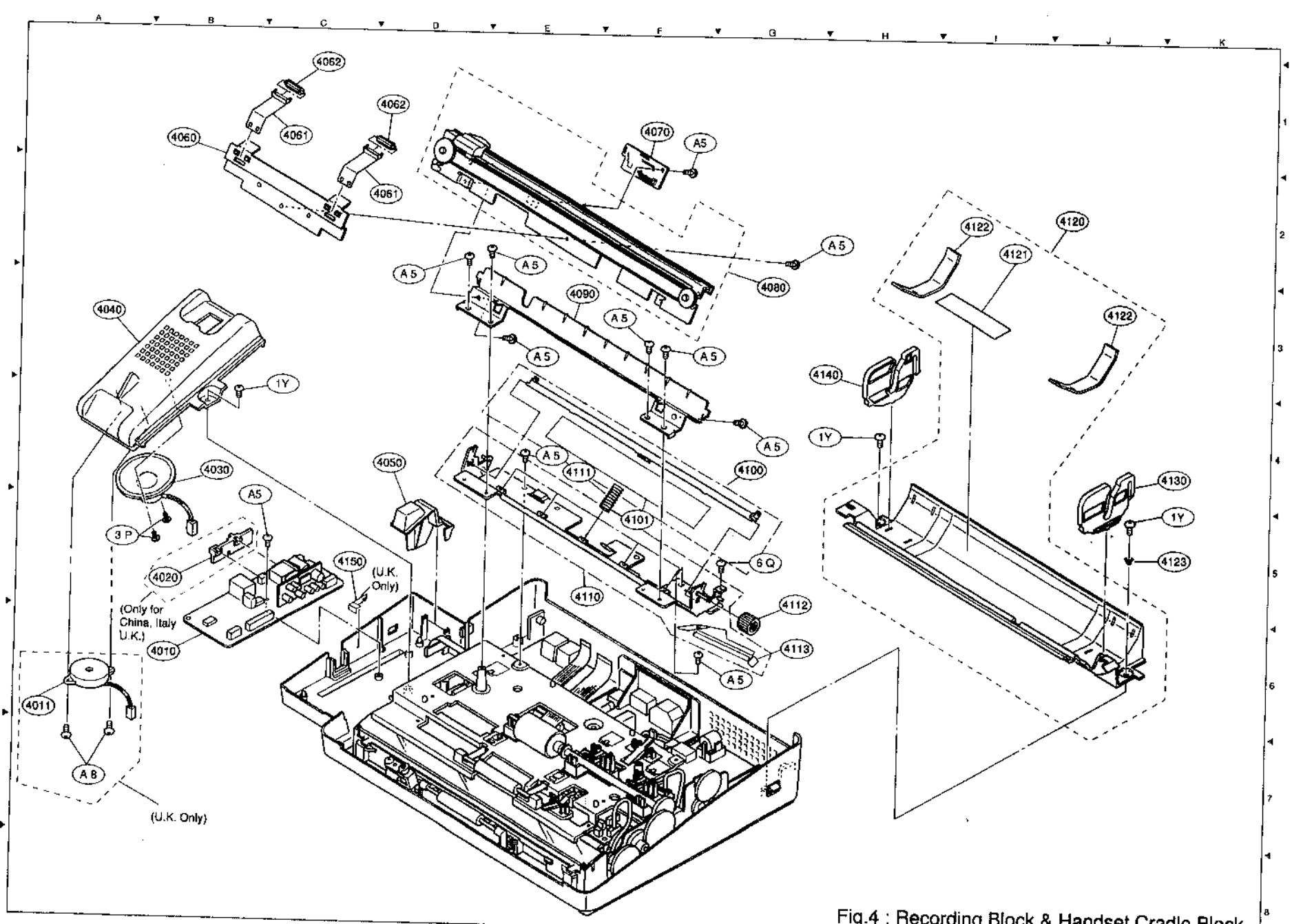


Fig.4 : Recording Block & Handset Cradle Block

Note

7.5 Recording Paper Exit Block & Transmission Chassis Block (1/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
5010	DZML000019	Document Tray Assy	1																															1E
5010	DZML000020			1					1																									
5010	DZML000021				1																													
5010	DZML000022					1																												
5010	DZML000023						1																											
5010	DZML000024									1																								
5010	DZML000025														1																			
5010	DZML000026															1																		
5010	DZML000027																		1															
5010	DZML000005				1						1	1	1					1		1	1		1	1	1	1	1	1	1	1	1	1	1	
5010	DZML000028																					1												
5010	DZML000029									1																								
5010	DZML000030																													1				
5011	DZNK000014	Quick Guide Sheel		1					1																									3E
5011	DZNK000039		1																															
5011	DZNK000040				1																													
5011	DZNK000041					1																												
5011	DZNK000038						1																											
5011	DZNK000042									1																								
5011	DZNK000043														1																			
5011	DZNK000044															1																		
5011	DZNK000045																		1															
5011	DZNK000016				1							1	1	1				1		1	1		1	1	1	1	1	1	1		1	1	1	
5011	DZNK000046																					1												
5011	DZNK000047									1																								
5011	DZNK000048																													1				
5020	DZMG000001	Upper Transmission Latch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2A,4E
5030	DZJF000015	Transmission Chassis Assy		1				1	1																									6A
5030	DZJF000016		1		1		1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	
5030	DZJF000017					1																								1				
5031	DZJF000009	Transmission Chassis		1				1	1																									4A
5031	DZJF000011		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5032	DZLF000009	Document Guide Gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5B
5033	DZJF000003	Document Guide L		1				1	1																									5A
5033	DZJF000012		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5033	DZJF000004	Document Guide R		1				1	1																									
5034	DZJF000013		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6C
5036	DZJM000010	Film	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2B,4E

Recording Paper Exit Block & Transmission Chassis Block (2/2)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
5040	DZLA000004	Recording Paper Exit Roller	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1I
5050	DZLM000001	Bush	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1H,1I,2J
5051	DZLM000016	Bush	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5J,4G
5060	DZHP000002	Recording Cover Assy		1				1	1																									3K
5060	DZHP000006		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5061	DZJM000005	Guide Sheet		1				1	1																									3I
5062	DZJN000002	Stack Rubber A		1				1	1																									2J
5062	DZJN000004		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5063	DZJN000003	Stack Rubber B		1				1	1																									1H,2J
5063	DZJN000005		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5070	DZLF000003	Gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3J
5080	DZMG000002	Rear Cover Latch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3I
5081	DZKN000003	Spring Coil D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4J
5090	DZJA000003	R-Paper Exit Roller Chassis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3I
5100	DZKK000001	Arm L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2H
5110	DZKK000002	Arm R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4J
5120	DZLA000008	Recording Roller	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	5I
5120	DZLA000027					1																							1					
5121	DZLF000002	Gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6J
A5	DZPB000001	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2B,3C,3G,4H,5H
A7	XTN2+6J	Screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6B

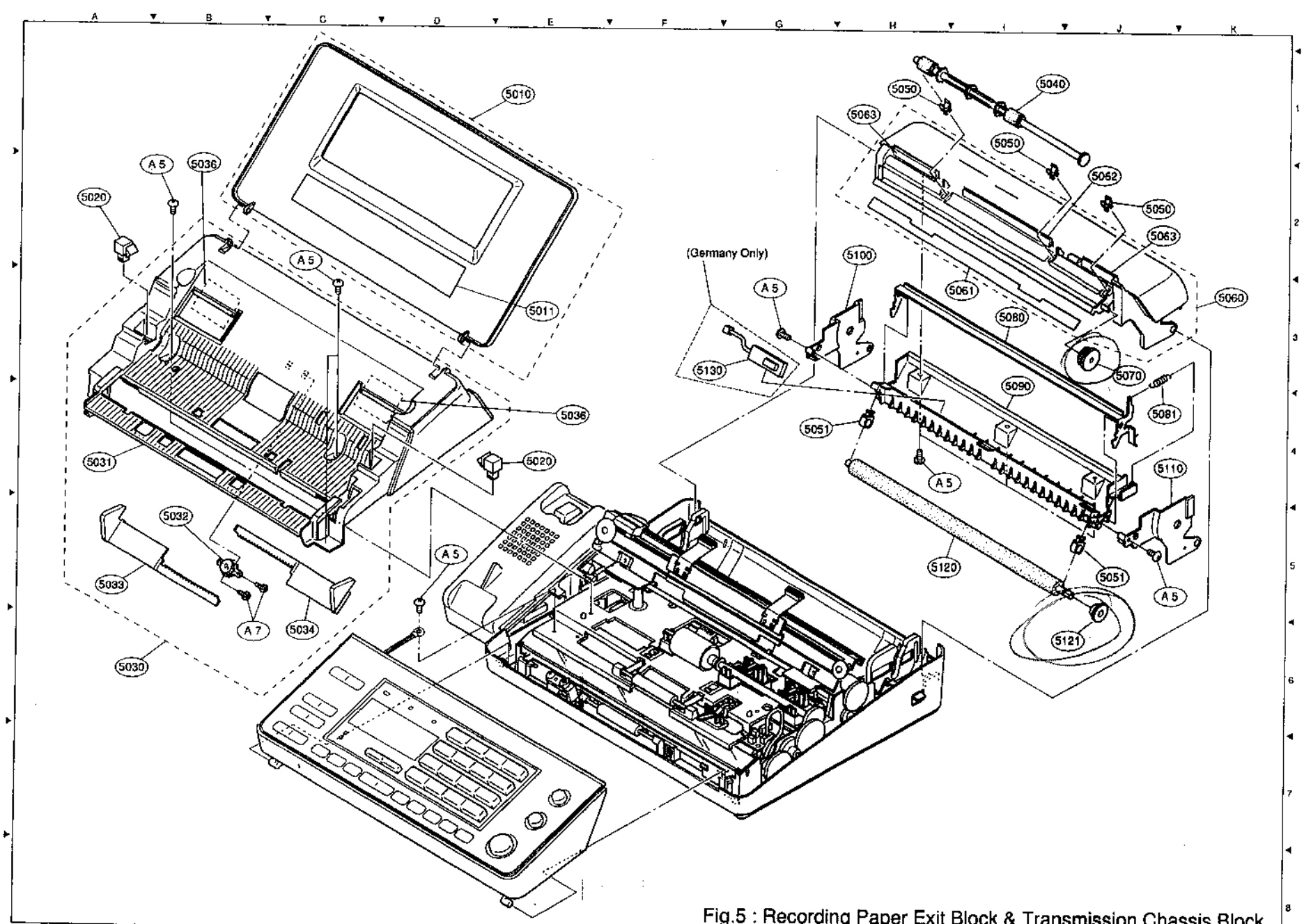


Fig.5 : Recording Paper Exit Block & Transmission Chassis Block

Note

7.6 Electrical Parts (1/4)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
6010	DZYC0556UAEU	SC PC Board Assy(UF-V40)																			1													6F
6010	DZYC0556YAAA		1																															
6010	DZYC0556YAAB			1																														
6010	DZYC0556YAAD				1																													
6010	DZYC0556YAAE					1																												
6010	DZYC0556YAAF						1																											
6010	DZYC0556GAAG							1																										
6010	DZYC0556YAAH								1																									
6010	DZYC0556YAEE									1																								
6010	DZYC0556YAAJ										1																							
6010	DZYC0556YAAK											1																						
6010	DZYC0556YAAL												1																					
6010	DZYC0556YAAM													1																				
6010	DZYC0556YAAN														1																			
6010	DZYC0556YAAP															1																		
6010	DZYC0556YAAQ																1																	
6010	DZYC0556YAAR																	1																
6010	DZYC0556YAAS																		1															
6010	DZYC0556YAAT																			1														
6010	DZYC0556YAAW																						1											
6010	DZYC0556ZAYC																								1	1								
6010	DZYC0556YAYM																										1							
6010	DZYC0556YAYT																												1					
6010	DZYC0556YAYW																														1			
6010	DZYC0556YAYX																																1	
6010	DZYC0556YAYY																																	1
6010	DZYC0556YAAV																					1												
6010	DZYC0556ZAYV																													1				
6010	DZYC0556UBEU	SC PC Board Assy(UF-V60)																			1													
6010	DZYC0556YBAA		1																															
6010	DZYC0556YBAB			1																														
6010	DZYC0556YBAD				1																													
6010	DZYC0556YBAE					1																												
6010	DZYC0556YBAF						1																											
6010	DZYC0556GBAG							1																										
6010	DZYC0556YBAH								1																									
6010	DZYC0556YBEE									1																								
6010	DZYC0556YBAJ										1																							

Electrical Parts (2/4)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
6010	DZYC0556YBAK	SC PC Board Assy(UF-V60)										1																						
6010	DZYC0556YBAL												1																					6F
6010	DZYC0556YBAM													1																				
6010	DZYC0556YBAN														1																			
6010	DZYC0556YBAP															1																		
6010	DZYC0556YBAQ																1																	
6010	DZYC0556YBAR																	1																
6010	DZYC0556YBAS																		1															
6010	DZYC0556YBAT																			1														
6010	DZYC0556YBAW																						1											
6010	DZYC0556ZBYC																								1	1								
6010	DZYC0556YBYM																										1							
6010	DZYC0556YBYT																											1						
6010	DZYC0556YBYW																												1					
6010	DZYC0556YBYX																													1				
6010	DZYC0556UBYY																														1			
6010	DZYC0556YBAV																															1		
6010	DZYC0556ZBYV																					1												
6020	DZYC0543AA	Panel PC Assy(UF-V40)	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	7D
6020	DZYC0543BA	Panel PC Assy(UF-V40)		1						1																			1					
6020	DZYC0543AB	Panel PC Assy(UF-V40)	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	
6020	DZYC0543BB	Panel PC Assy(UF-V40)		1						1																			1					
6021	DZFP000001	Panel 1 FFC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6023	DZDS000001	Microphone Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6C
6024	DZFP000012	Earth Storap	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6A
6030	DZYC0512A	NCU PC Board Assy	1																															5B
6030	DZYC0512B			1																														2I
6030	DZYC0512D				1																													
6030	DZYC0512E					1																												
6030	DZYC0512F						1																											
6030	DZYC0512G							1																										
6030	DZYC0512H								1																									
6030	DZYC0512I									1																								
6030	DZYC0512J										1																							
6030	DZYC0512K											1																						
6030	DZYC0512L												1																					
6030	DZYC0512M													1																				
6030	DZYC0512N														1																			

Electrical Parts (3/4)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
6030	DZYC0512P	NCU PC Board Assy														1																		2I
6030	DZYC0512Q																1																	
6030	DZYC0512R																	1																
6030	DZYC0512S																		1															
6030	DZYC0558T																			1														
6030	DZYC0511U																				1			1		1								1
6030	DZYC0512V																					1												
6030	DZYC0512W																						1											
6030	DZYC0512YW																													1				
6030	DZYC0512YX																														1			
6030	DZYC0558M																										1							
6030	DZYC0558T																												1					
6030	DZYC0511YV																													1				
6031	DZFP000008	NCU Strap	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4G
6040	DZYC0537U	Power Supply Unit1 (100V)				1															1												1	2J
6040	DZYC0567Y	Power Supply Unit1 (200V)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		
6050	ETXA53A6A	Power Supply Unit2 (100V)				1															1												1	3K
6050	ETXA53A6E	Power Supply Unit2 (200V)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		
6051	DZFP000007	Power 2 Strap	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5I
6060	DZYC0522U	SRU PC Board Assy																			1			1	1			1					1	1G
6060	DZYC0523A		1																															
6060	DZYC0523B			1																														
6060	DZYC0522D				1																													
6060	DZYC0522E					1																												
6060	DZYC0522F						1																											
6060	DZYC0524							1																										
6060	DZYC0522K											1																						
6060	DZYC0522H								1																									
6060	DZYC0522X									1																								
6060	DZYC0522J										1																							
6060	DZYC0522L												1																					
6060	DZYC0522M													1																				
6060	DZYC0522N														1																			
6060	DZYC0522Q																1																	
6060	DZYC0522R																	1																
6060	DZYC0523S																		1															
6060	DZYC0522W																						1											
6060	DZYC0522V																					1												

Electrical Parts (4/4)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
6060	DZYC0522YC	SRU PC Board Assy																								1								
6060	DZYC0522YV																													1				1G
6060	DZYC0522YW																														1			
6060	DZYC0522YX																															1		
6060	DZYC0522P																																1	
6061	DZFP000009	Speaker Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1F
6062	DZDU000002	Handset				1										1				1	1			1	1	1	1	1	1	1	1	1	1	1B
6062	DZDU000005			1				1	1																									
6062	DZDU000006		1		1		1			1	1	1		1	1		1	1	1			1	1								1	1		
6062	DZDU000008												1																					
6063	DZFN000002	Handset Cord		1				1	1																									
6063	DZFN000004		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1A
6070	DZHT000005	Thermal Head Assy B4				1																								1				4C
6070	DZHT000006	Thermal Head Assy A4	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	
6071	DZFP000003	Thermal Head FFC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4C
6080	DZGB000001	Verification Stamp Assy																		1				1									1	5D
6080	DZGB000002		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1	1		
6090	DZFP000011	LED Assy(A4)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7F
6090	DZFP000010	LED Assy(B4)				1																									1	1	1	
6100	42S1N15DGNA	Stepping Motor A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7H
6110	42S1N15DCNZ	Stepping Motor B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6I
6120	DZCH000001	Micro Switch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3F
6121	DZFP000008	Micro Switch Strap	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3F
6130	DZFP000004	CCD FFC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4G
6140	DZYC0538	MIF PC Board Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3E
6141	DZFP000005	MIF Strap	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3E
F1	DZDW000002	Fuse, 250V, T2.5A	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	2I
F1	DZDW000001	Fuse, 125V, 4A				1														1													1	

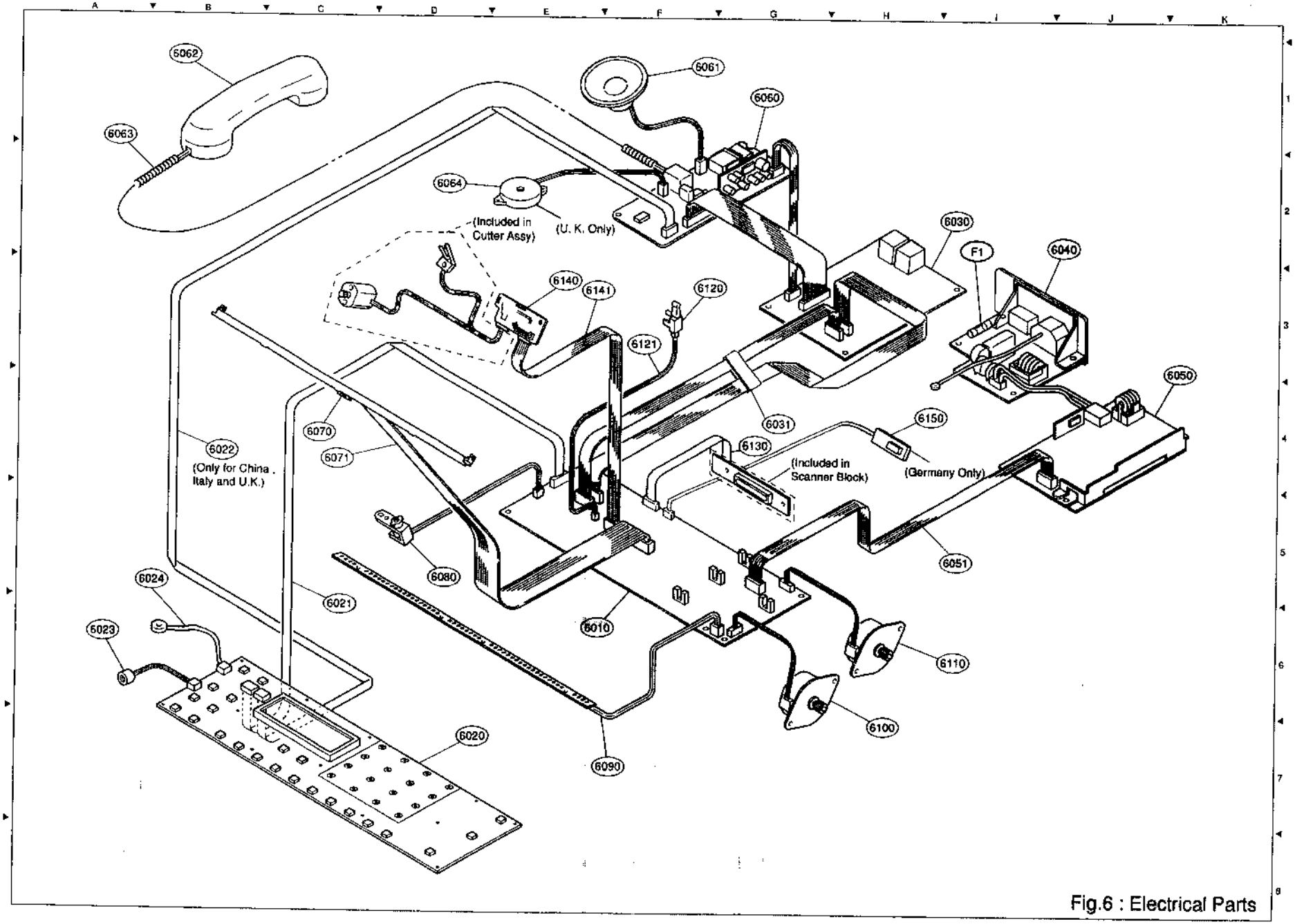


Fig.6 : Electrical Parts

7.7 Packing & Accessories (1/3)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
7010	DZFM000002	Power Supply Cord				1															1												1	2E
7010	DZFM000003					1															1												1	
7010	DZFM000004		1		1		1	1	1		1				1	1		1	1	1		1			1	1		1	1		1			
7010	DZFM000012		1		1		1	1	1		1				1	1		1	1	1		1			1	1		1	1		1			
7010	DZFM000008			1								1															1					1		
7010	DZFM000011									1																								
7010	DZFM000009												1										1											
7010	DZFM000010													1																				
7010	DZFM000007																							1										
7020	DZFN000009	Line Cord																			1			1									1	2D
7020	DZFN000029																				1			1									1	
7020	DZFN000003					1					1						1			1					1	1	1		1	1	1	1		
7020	DZFN000027					1					1						1			1					1	1	1		1	1	1	1		
7020	DZFN000006			1								1											1											
7020	DZFN000007			1								1											1											
7020	DZFN000031				1																													
7020	DZFN000026					1																												
7020	DZFN000028														1																			
7020	DZFN000023						1																											
7020	DZFN000030							1																										
7020	DZFN000020								1																									
7020	DZFN000021								1																									
7020	DZFN000015								1																									
7020	DZFN000017												1																					
7020	DZFN000025													1																				
7020	DZFN000016															1																		
7020	DZFN000018																	1																
7020	DZFN000019																	1																
7020	DZFN000022																	1																
7020	DZFN000024																		1															
7030	DZFN000002			1				1	1																									
7030	DZFN000004		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7040	DZDU000002	Handset				1										1				1	1			1	1	1	1	1	1	1			1	2C
7040	DZDU000005			1				1	1																									
7040	DZDU000006		1		1		1			1	1	1		1	1		1	1	1			1	1								1	1		
7040	DZDU000008												1																					
7050	DZRJ000002	Plastic Bag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1B
7051	DZSD000003	User's Guide(UF-V40)																			1													2B

Packing & Accessories (2/3)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
7051	DZSD000011	User's Guide(UF-V40)		1																														2B
7051	DZSD000012							1																										
7051	DZSD000013		1																															
7051	DZSD000014																		1															
7051	DZSD000015									1																								
7051	DZSD000016										1																							
7051	DZSD000017															1																		
7051	DZSD000018																	1																
7051	DZSD000019								1									1																
7051	DZSD000020				1																													
7051	DZSD000021											1	1							1			1			1	1		1		1	1		
7051	DZSD000022																													1				
7051	DZSD000023					1																												
7051	DZSD000005	User's Guide(UF-V60)																			1														2B
7051	DZSD000032			1																														
7051	DZSD000033							1																										
7051	DZSD000034		1																															
7051	DZSD000035																		1															
7051	DZSD000036									1																								
7051	DZSD000037										1																							
7051	DZSD000038															1																		
7051	DZSD000039																	1																
7051	DZSD000040								1									1																
7051	DZSD000041				1																													
7051	DZSD000042											1	1							1			1			1	1		1		1	1		
7051	DZSD000043																													1				
7051	DZSD000044					1																												
7052	DZNK000004	Adress Sheet(UF-V40,V60)						1	1																										2B
7052	DZNK000005			1																														
7052	DZNK000037		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7059	DZJM000009	Stack Film	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2B
7060	DZQN000007	Recording Paper (A4)	1	1	1		1		1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1	1			2A
7060	DZQN000010	Recording Paper (A4)						1																										
7060	DZQN000012	Recording Paper (Letter)																			1			1									1	
7060	DZQN000009	Recording Paper (B4)				1																								1				
7061	DZQE000003	Rosette																								1								2C
7062	DZQE000002	Adapter																																3E
7070	DZML000002	Recording Tray	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2E

Packing & Accessories (3/3)

Ref No.	Part No.	Part Name	AA	AB	AD	AE	AF	AG	AH	EE	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	YA	YB	YC	YM	YS	YT	YV	YW	YX	YY	Location
7080	DZML000019	Document Tray Assy	1																															
7080	DZML000020			1					1																									2D
7080	DZML000021				1																													
7080	DZML000022						1																											
7080	DZML000023							1																										
7080	DZML000024										1																							
7080	DZML000025	Document Tray Assy													1																			
7080	DZML000026															1																		
7080	DZML000027																		1															
7080	DZML000006					1						1	1	1				1		1	1		1	1	1	1	1	1	1		1	1	1	
7080	DZML000028																					1												
7080	DZML000029									1																								
7080	DZML000030																												1					
7090	DZRD000001	Accessories Box	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3D
7100	DZRH000006	Side Styrofoam Packing(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5B
7101	DZRH000007	Side Styrofoam Packing(R)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6E
7110	DZRB000011	Carton Box(UF-V40)		1				1	1																									6B
7110	DZRB000004																				1													
7110	DZRB000005		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1		1	1	1	
7110	DZRB000012																													1				
7110	DZRB000013	Carton Box(UF-V60)		1				1	1																									
7110	DZRB000007																				1													
7110	DZRB000003		1		1	1	1			1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1		1	1	1	
7110	DZRB000014																													1				
7120	DZRJ000001	Plastic Bag (Body)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4B
7121	DZRH000005	Thermal Head Protective Sheet(A4)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	5B
7121	DZRH000002	Thermal Head Protective Sheet(B4)				1																								1				5B
7122	DZRH000003	ADF Roller Protective Sheet	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5B
7123	DZRG000002	Cutter Stopper Film	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4C
7123	DZRG000008		1					1																										
7123	DZRG000005				1																													
7123	DZRG000007					1																												
7123	DZRG000009									1																								
7123	DZRG000010														1																			
7123	DZRG000011															1																		
7123	DZRG000012																		1															
7123	DZRG000014								1																									
7123	DZRG000015																												1					
7123	DZRG000016							1																										4C

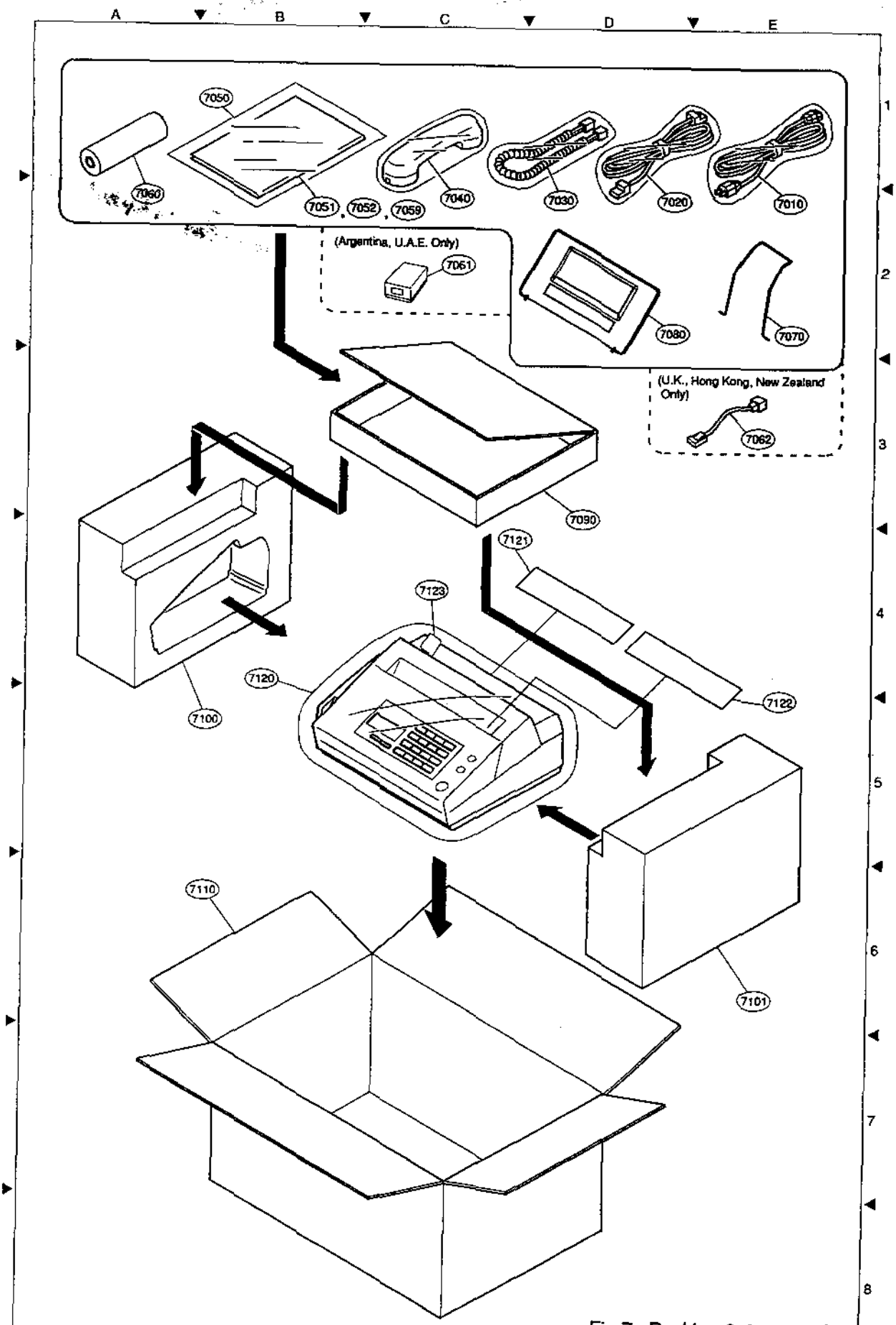


Fig.7 : Packing & Accessories

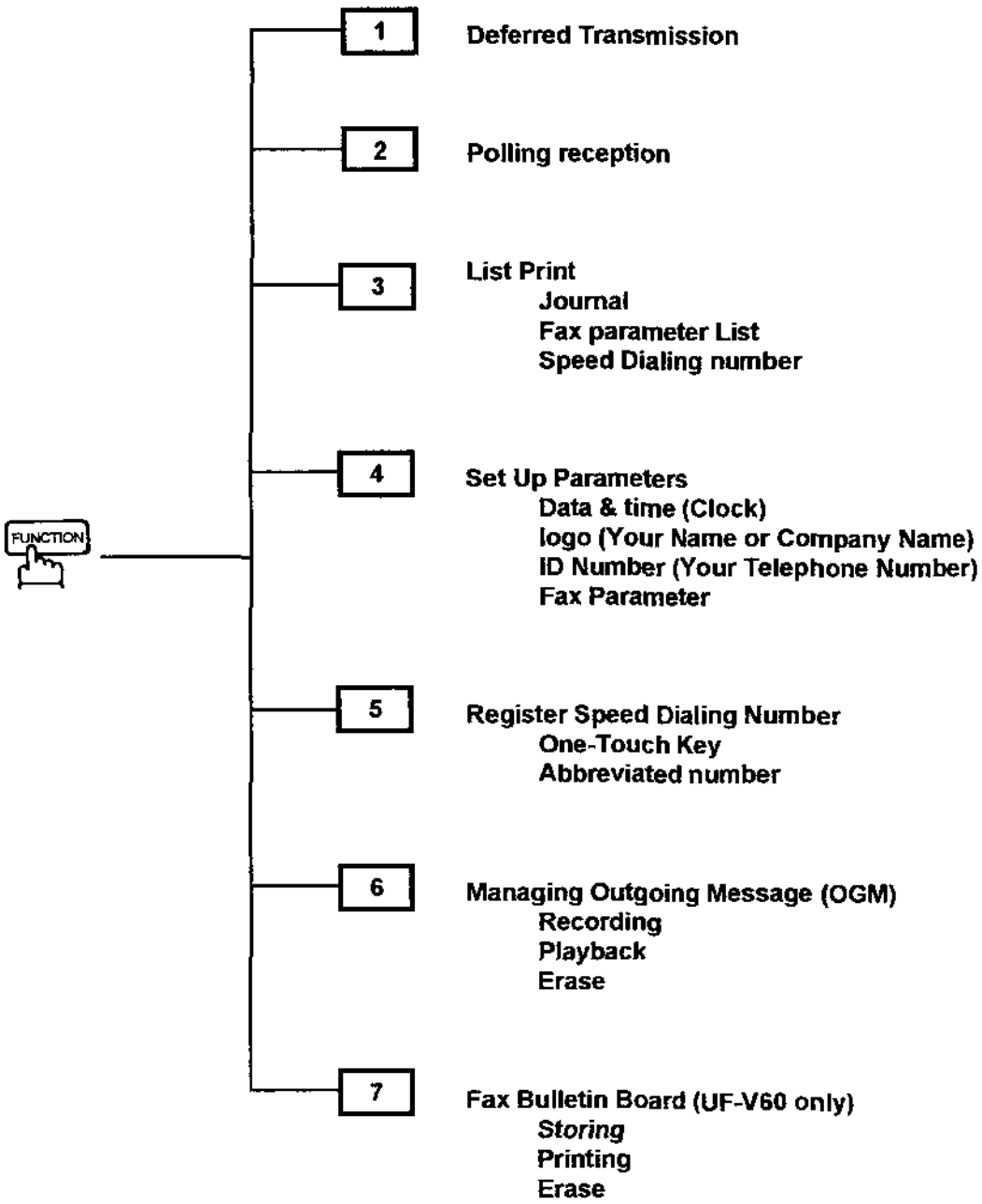
Note

Chapter 8
Installation

Note

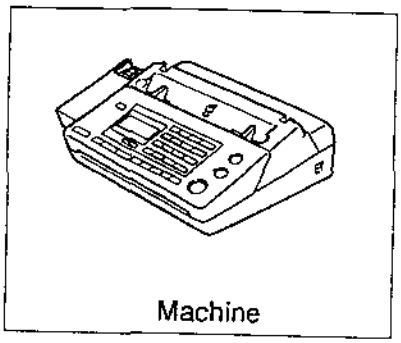
8.1 Function Key

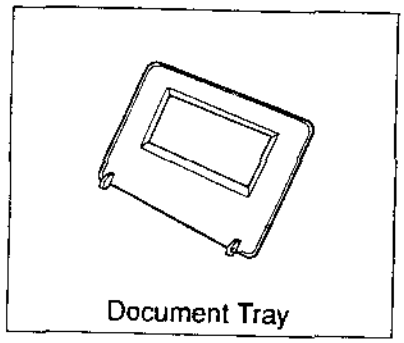
Any function can be started by first pressing [FUNCTION] and then enter the function number, or by pressing [^] or [v] scroll key repeatedly until the desired function appears on the display, and then pressing [SET] for enter that function.

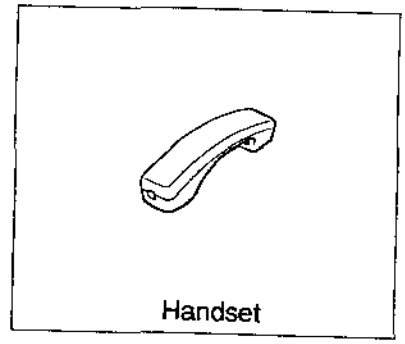


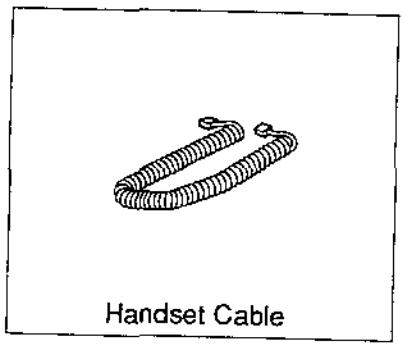
8.2 Main Unit and Accessories

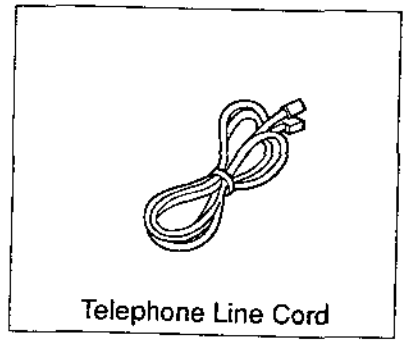
Unpack the carton and check that you have all accessories illustrated.

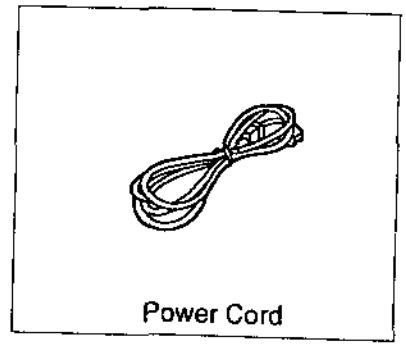

Machine

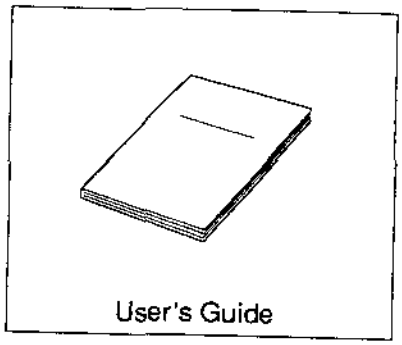

Document Tray

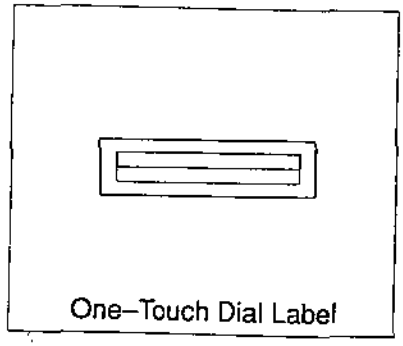

Handset

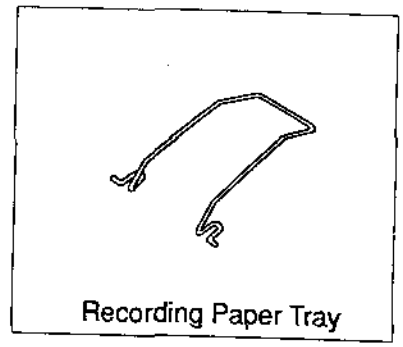

Handset Cable

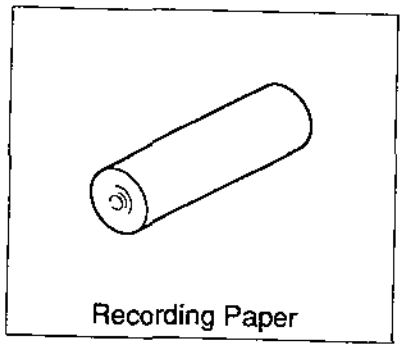

Telephone Line Cord

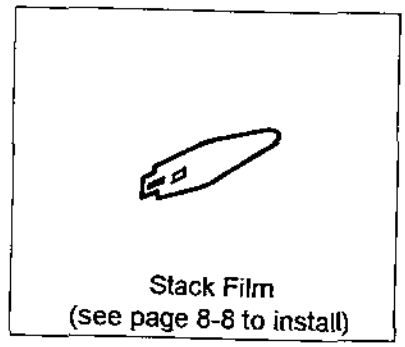

Power Cord


User's Guide

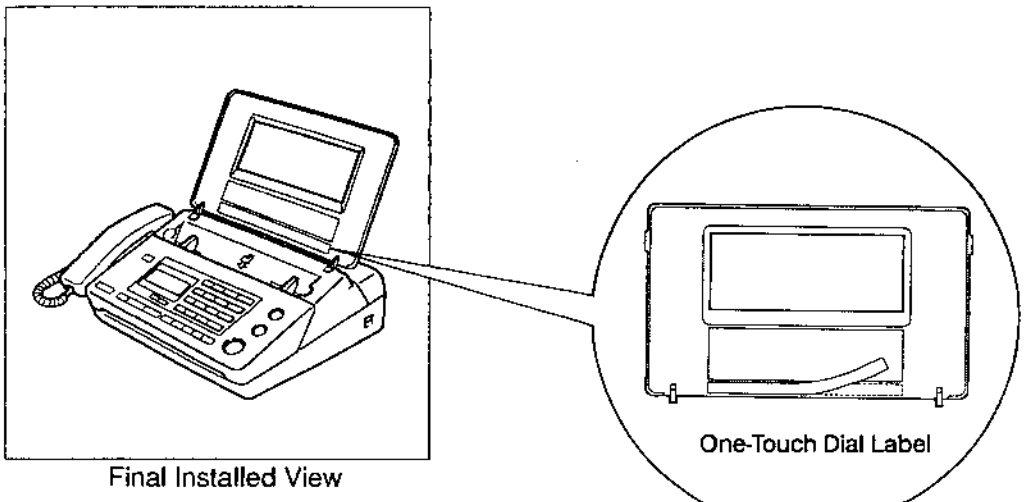

One–Touch Dial Label


Recording Paper Tray

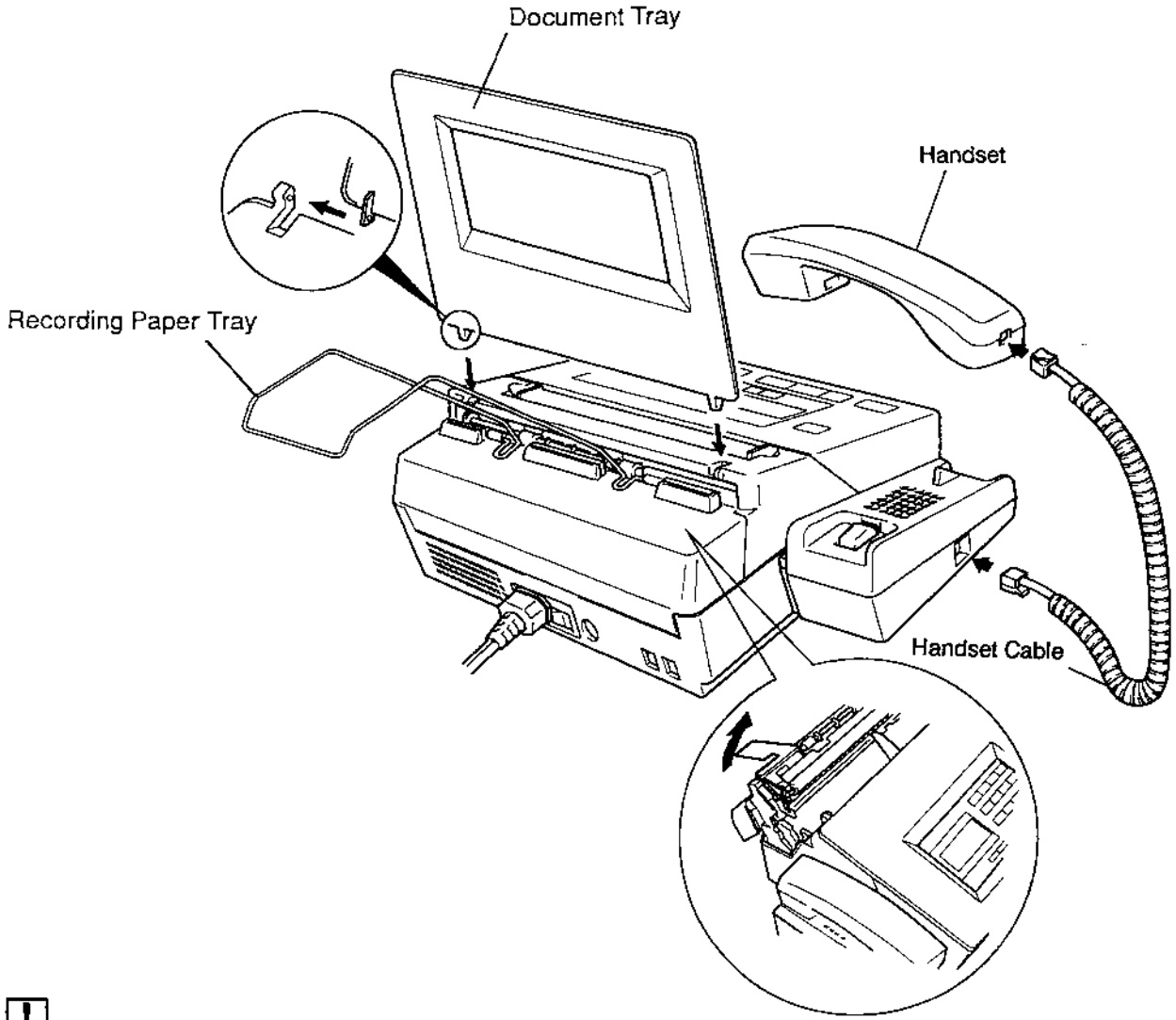

Recording Paper


Stack Film
(see page 8-8 to install)

8.3 Installing Accessories



Final Installed View



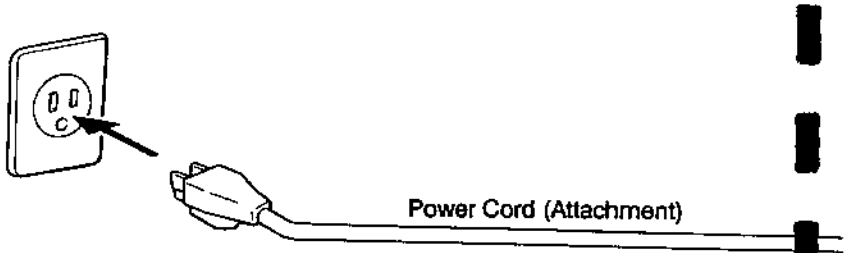
Note: *When you turn the power switch ON, the ADF Protective Sheet will be ejected automatically.*

8.4 Connecting the Telephone Line Cord and Power Cord

■ Power Cord

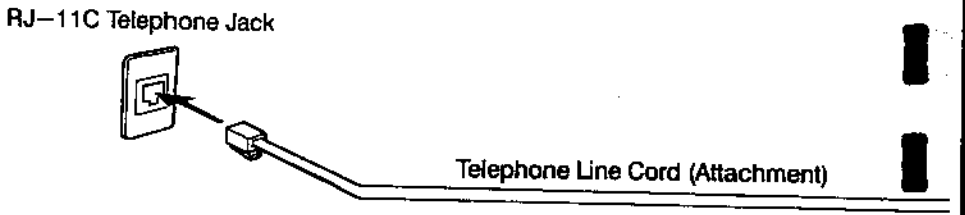
Plug one end of the power cord into an ordinary 3 prong AC outlet and the other end into the receptable on the rear of the machine.

Warning : This apparatus must be properly grounded through an ordinary 3 prong AC outlet.



■ Telephone Line Cord

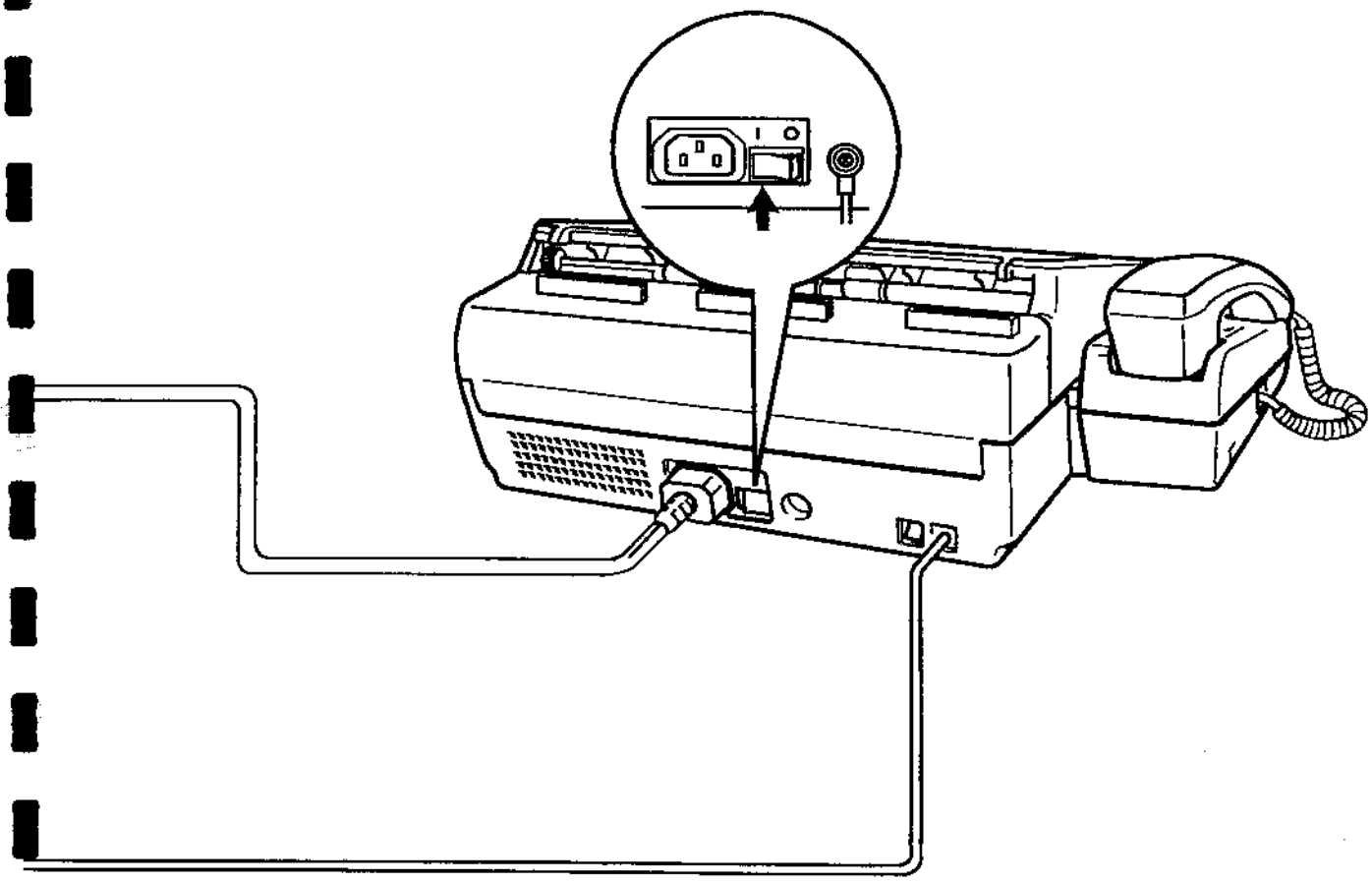
Plug one end of the telephone line cord into the "RJ-11C" telephone jack supplied by the telephone company and the other end into the LINE jack on the rear of the machine.



Note: *1. Your machine uses little power and you should keep it ON at all times.*
2. The built-in rechargeable batteries require 48 hours to be fully charged in the machine.

■ **Power Switch**

After connecting all cords, turn the power switch ON.



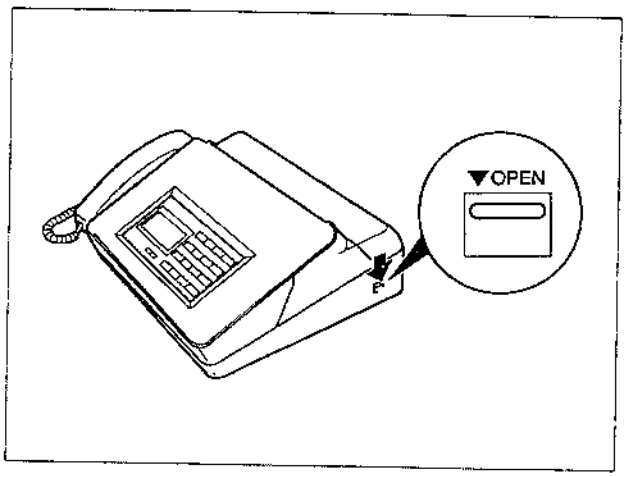
■ **External Telephone (Optional)**

You can connect an additional standard single line telephone to the machine.

8.5 Installing / Replacing Recording Paper

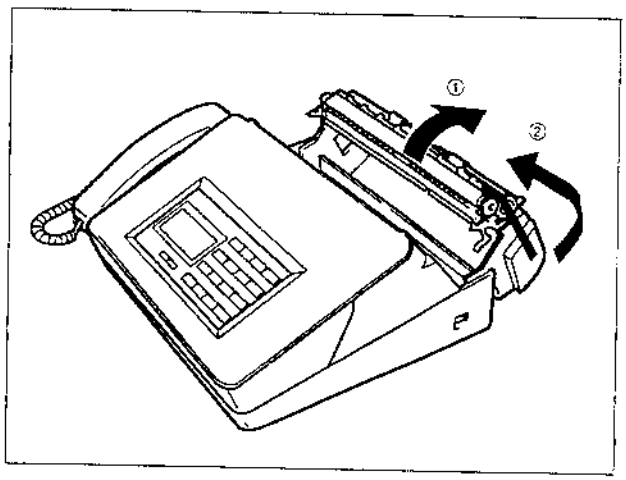
When you use for the first time, please remove the Protective Paper and the Protective Sheet in the machine.

1



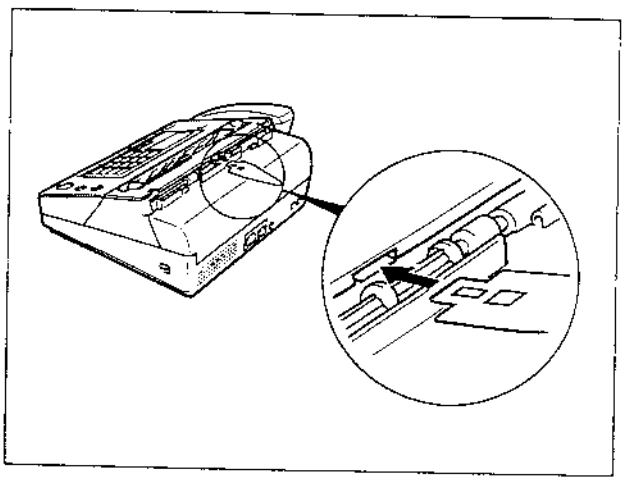
Push down on the Latch Lever.

2



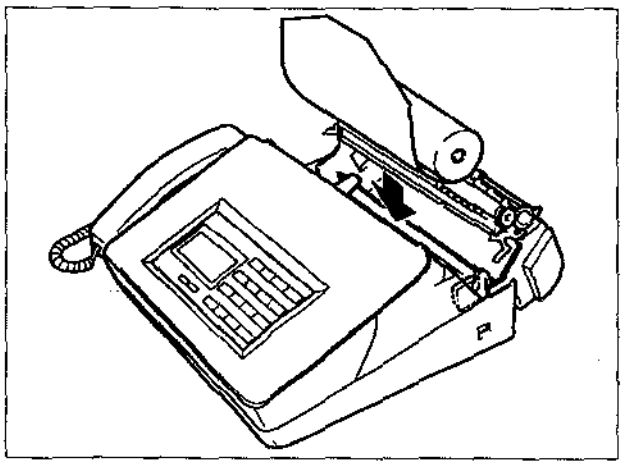
① Open the Recording Cover.
(see Note 1)
② When you use for the first time, please remove the Tape as shown to the left.

3



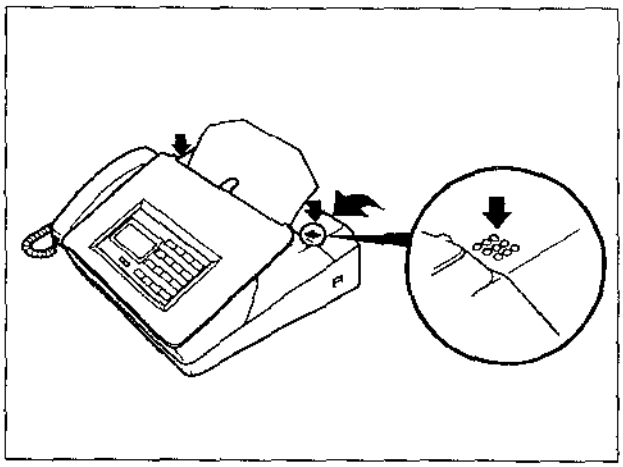
When you use for the first time, please install the Stack Film as shown to the left.

4



Install the recording paper in the machine as shown. The paper MUST feed from the bottom of the roll.

5



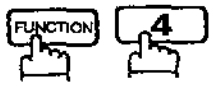
Close the Recording Cover until lock firmly. The recording paper will automatically feed through the machine and cut. (see Note 2)

Note: *1. Don't touch the surface of the thermal head which may cause deterioration of the printing quality.*
2. If the Recording Cover is not closed, the ALARM lamp will lit and you cannot receive or copy.

8.6 Customizing Your Machine

Your facsimile machine has a variety of adjustable Fax Parameters. These parameters, listed in the Parameter Table, are preset for you and do not need to be changed. If you do want to make a change, read the table carefully. Some parameters, such as the Resolution and Original, can be temporarily changed by simple key operations just before a transmission is made. When the transmission ends, however, these parameters return to their preset values (Home position). Other parameters can only be changed by the procedure described below.

Setting Fax Parameters

1 


```
FAX PARAMETERS (V ^)
```

2 Enter Fax Parameter number from the Parameter Table

Ex: [2][2] for **ORIGINAL**

```
ORIGINAL        :NORMAL
```

3 Enter the new setting value.
[<] or [>] repeatedly until your request shows;

```
ORIGINAL        :DARK
```

4 

To set another parameter, press [CLEAR] to return to step 2, or, to return to standby, press [STOP].

[!] ***Note:*** *1. To scroll the Fax Parameters in Step1, press [v] or [^] .*
2. To print a Fax Parameter List, see page 8-3.
3. The built-in rechargeable battery when fully charged can back up the Fax Parameter settings for up to 2 weeks when a power failure occurs .

Fax Parameter Table (UF-V40 only)

No.	Parameter	Standard Setting	Selection	Comments
01	DATE & TIME	-	-	Set the current Date and Time.
02	NAME	-	-	Set your name or company logo.
03	TEL NO.	-	-	Set your fax telephone number or ID number.
04	RECEIVE MODE (IN)	MANUAL RCV	MANUAL RCV	Set the IN MODE for Telephone Mode or Fax/Tel Auto Switching Mode.
			TEL/FAX	
05	RECEIVE MODE (OUT)	FAX	FAX	Set the OUT MODE for Fax Mode, TAM Interface Mode or Fax/Tel Auto Switching Mode.
			FAX/External TAM	
			FAX/TEL	
06	TIMER SWITCH	OFF	OFF	Select whether or not the machine will switch the IN/OUT MODE automatically at a preset period.
			ON	
07	RING COUNTER	1	0 - 9	Set the number of initial rings before the machine answers. (See Note 1.)
08	F/T RING COUNTER	12	3	Set the number of rings that the machine will alert for a voice call when set in the Fax/Tel Auto Switching Mode.
			6	
			9	
			12	
10	FRIENDLY RCV	ON	OFF	Select whether or not the machine continues to monitor for a fax signal for a short period of time when a call is answered using the fax hadset and then hung up.
			ON	
11	REMOTE RCV	ON	OFF	Select whether or not the machine accepts the remote reception command to switch into Fax Reception Mode.
			ON	
12	DRD (Distinctive Ring Detector)	OFF	OFF	Select whether or not the machine checks for a distinctive ring pattern. (See Note 2.)
			ON	
18	HOLD MUSIC	ON	OFF	Select whether or not the machine will send Hold Music while the line is being put on hold.
			ON	
20	KEY VOLUME	SOFT	OFF	Select the volume of the Key tone.
			SOFT	
			LOUD	
21	RESOLUTION HOME POSITION	STANDARD	STANDARD	Set the home position of the RESOLUTION key on the panel.
			FINE	
			S-FINE	
			HALFTONE	

Continued on the next page

Fax Parameter Table (UF-V40 only)

No.	Parameter	Standard Setting	Selection	Comments
22	ORIGINAL HOME POSITION	NORMAL	NORMAL LIGHT DARK	Set the home position of ORIGINAL key on the panel.
23	STAMP	OFF	OFF ON	Select whether or not the machine stamps the document after it has been successfully transmitted.
24	SUBSTITUTE RECEPTION (UF-V60 only)	ON	OFF ON	Select whether or not the machine receives into memory when recording paper runs out or jammed.
25	SELECTIVE RCV	OFF	OFF ON	Select whether or not the machine performs selective reception function.
26	OVERSEAS COMM.	OFF	OFF ON	Select whether or not the machine uses the overseas setting to improve communications.
27	COMM. JOURNAL	INC	OFF ALWAYS INC	Select the print condition for the COMM. Journal. OFF : Do not print ALWAYS : Print after each transmission. INC : Print only when the transmission has failed.
28	PRINT JOURNAL	AUTO	AUTO MANUAL	Select whether or not the machine prints the journal automatically after each 10 transactions.
30	AUTO CUT	ON	OFF ON	Select whether or not the machine cuts each page after it is printed.
31	DIAGNOSTIC	ON	OFF ON	Select whether or not the machine accepts remote service diagnostic from the service center. Please ask your Panasnonic Authorized Dealer for details.
32	DAYLIGHT TIME	ON	OFF ON	Select whether or not the machine adjusts the built-in clock for daylight savings Time automatically. The built-in clock will advance 1 hour at 2:00 am on the first Sunday in April and fallback 1 hour at 2:00 am on the last Sunday in October.
33	HEADER/JOURNAL TEL NO.	ON	OFF ON	Select whether or not the machine prints the telephone number dialed on the header of the document sent and on the journal. When you are calling using a calling/credit card or requires to enter a personal ID to complete a call, change this setting to "OFF".
40	SILENT DETECTION (TAM I/F)	15	5 ~ 60	Setting the OGM length of your TAM from 5 to 60 seconds. Unit will not start to detect a SILENT until the time lapse after detected an incoming call in TAM Interface Mode.
41	SILENT DETECTION (TAM I/F)	ON	OFF ON	Selecting Silent Detection Mode.

Continued on the next page

Fax Parameter Table (UF-V60 only)

No.	Parameter	Standard Setting	Selection	Comments
42	REMOTE PASSWORD (UF-V60 only)		(_ _ _ _)	Setting a 4-digit password for Remote Controlled Operation.
43	BULLETIN PASSWORD (UF-V60 only)		(_ _ _ _)	Setting a 4-digit password for document retrieval from the bulletin board.
44	PERSONAL MAILBOX (UF-V60 only)	OFF	OFF ON	Setting the Personal Mailbox function.
45	MAILBOX RECEPTION NOTICE (UF-V60 only)	OFF	OFF ON	Select whether or not the machine transmits a Mailbox Reception Notice to the pre-programmed location after a fax is received in the Personal Mailbox.
46	MESSAGE TRANSFER (UF-V60 only)	OFF	OFF ON	Select whether or not the machine calls the pre-programmed location after an incoming voice message is recorded in the Built-in TAM.
47	MESSAGE RECORDING TIME (UF-V60 only)	30	30 (sec) 60 (sec) 90 (sec)	Setting the recording time for each incoming message.
48	IN/OUT REMOTE SET (UF-V60 only)	OFF	OFF ON	Select whether or not the machine accepts the IN/OUT Mode to be changed using the Remote Controlled operation.
49	TOLL SAVER (UF-V60 only)	OFF	OFF ON	Setting the Toll Saver Mode. When set "ON", you can determines whether or not there is a new message recorded in the TAM.
50	CALL SCREENING (UF-V60 only)	ON	OFF ON	Select whether or not you can monitor the incoming call through the speaker while it is being recorded and answer it if you wish by simply picking up the fax handset.

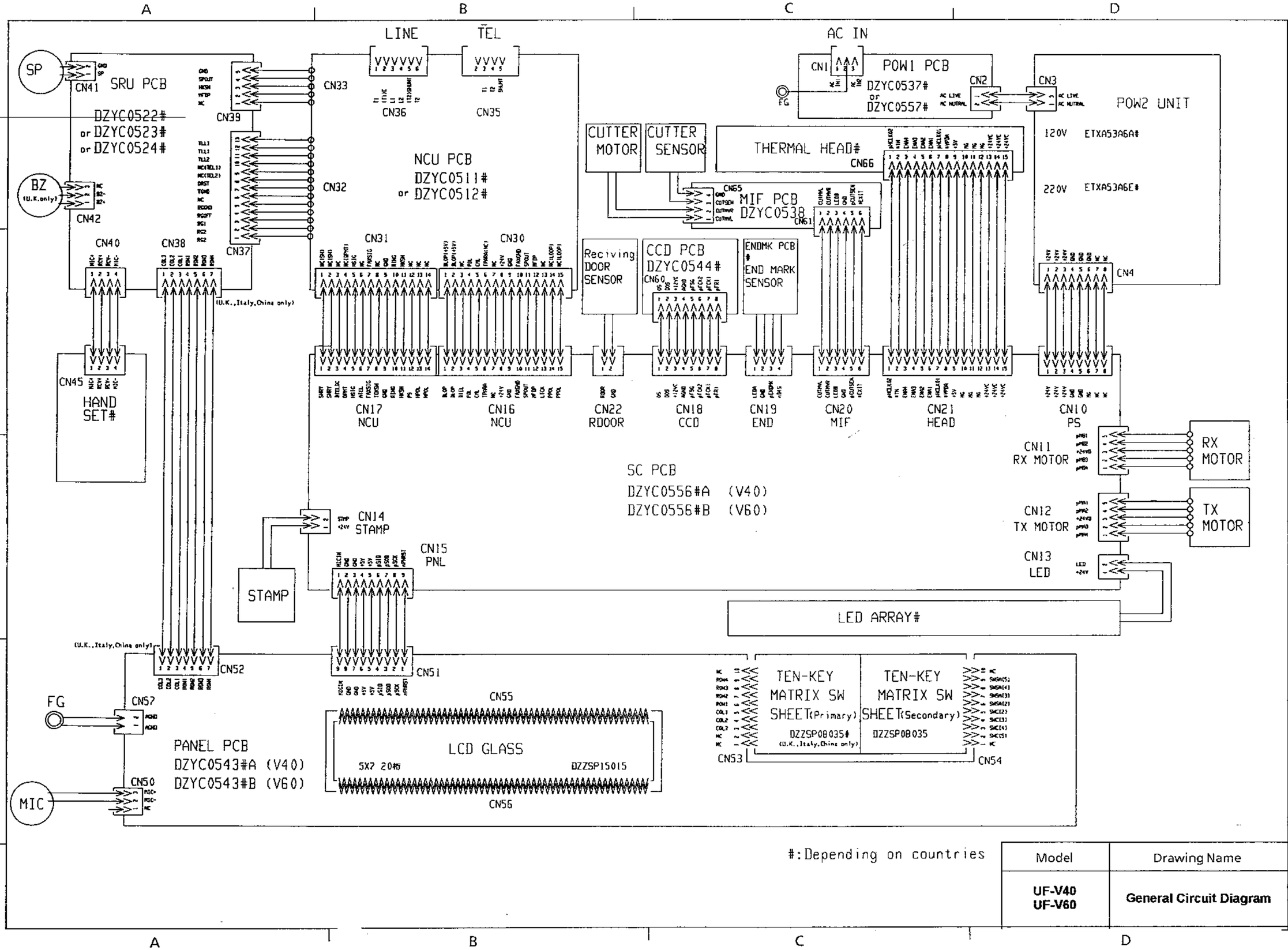
Note: *1. Depending on the PBX conditions at the moment the fax machine is called the number of rings can differ from setting*

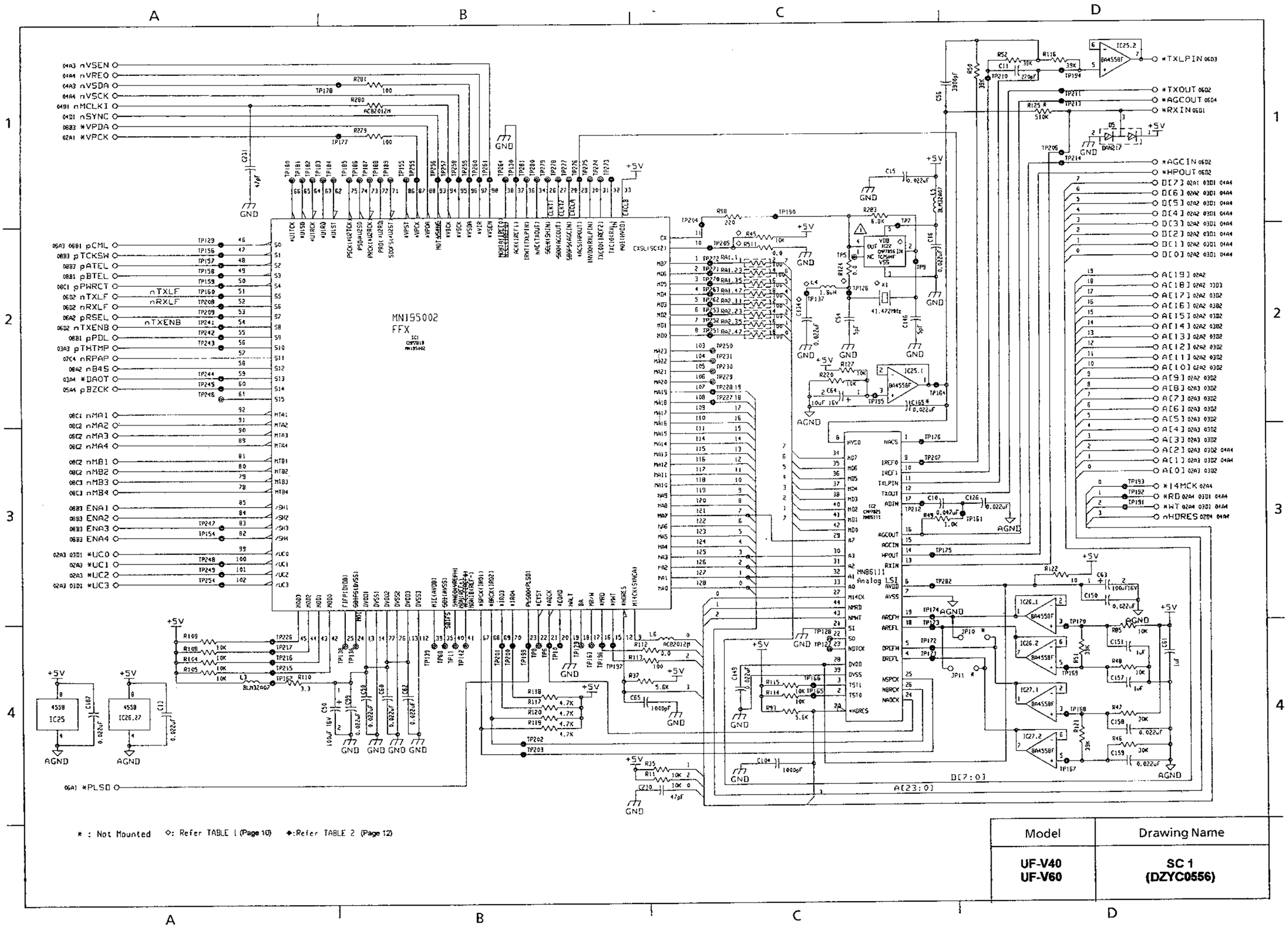
2. This parameter supports an optional telephone service "Distinctive Ring Service" provided by your local telephone company. Please contact your local telephone company about availability of this service in your country.

Note

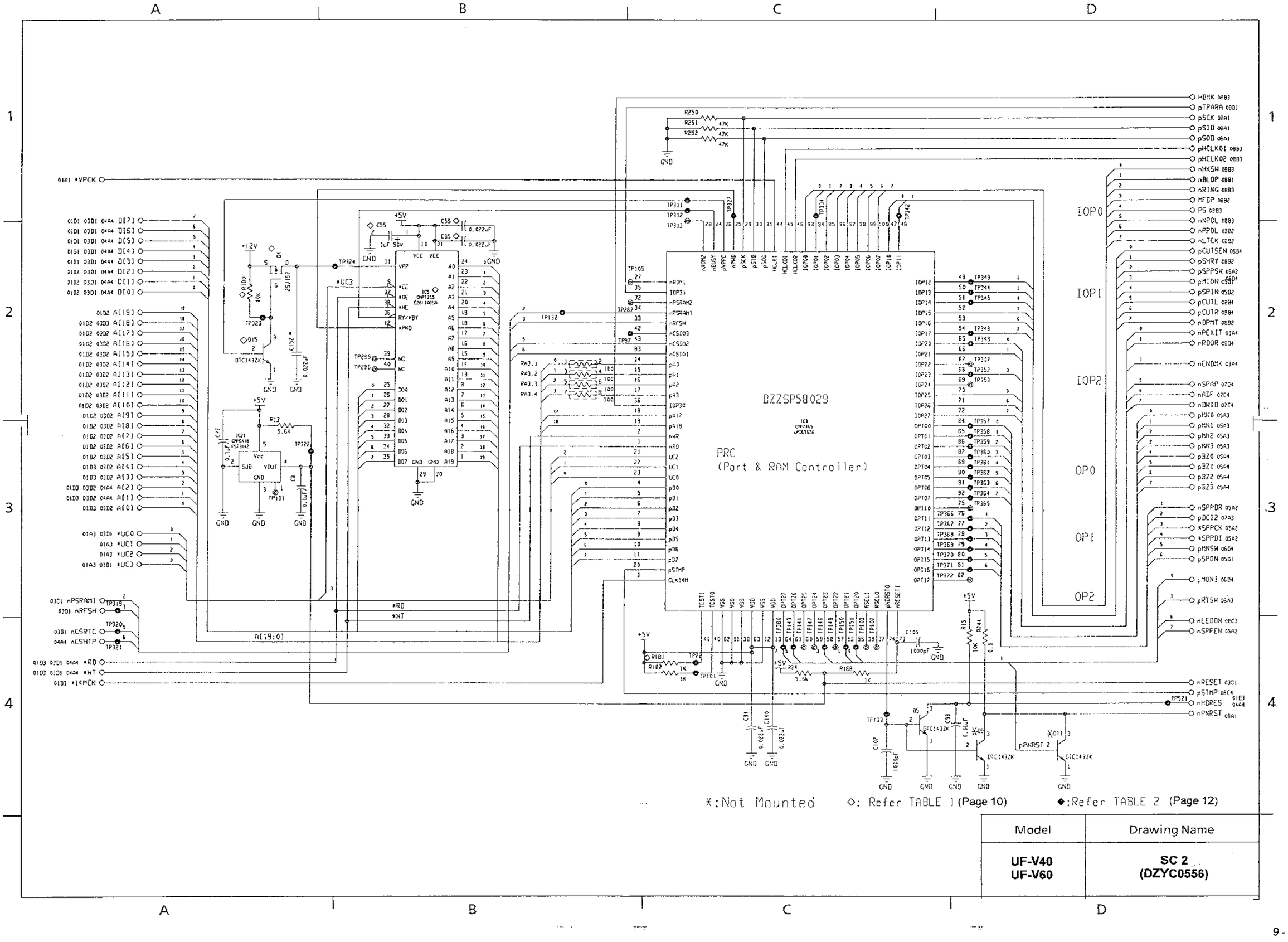
Note

Chapter 9
Schematic Diagram
&
Parts List

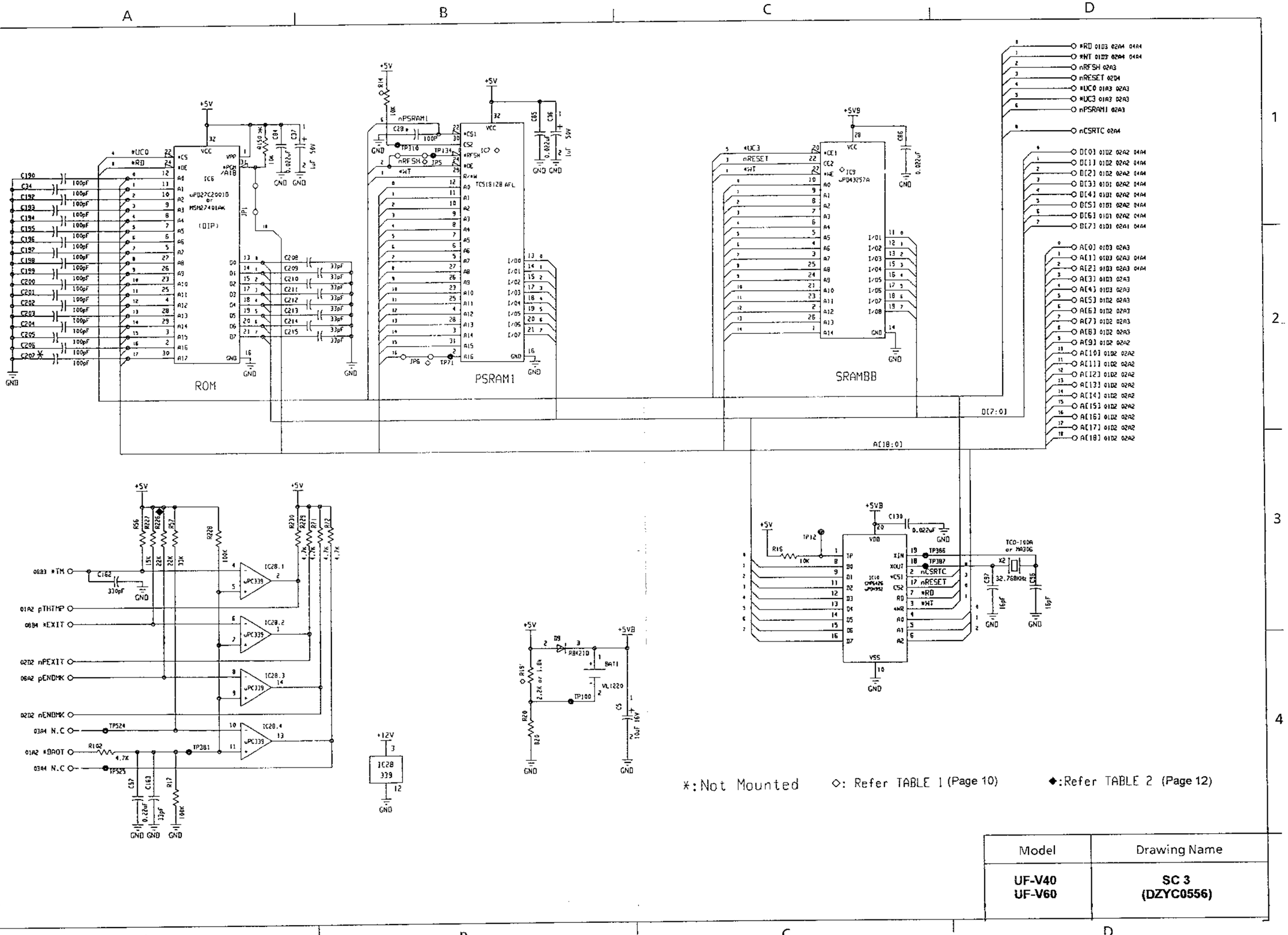

A
B
C
D
1
2
3
4
LINE
TEL
AC IN
SP
CN41
SRU PCB
DZYC0522#
or DZYC0523#
or DZYC0524#
BZ
(U.K.only)
CN42
CN39
CN33
CN36
CN35
CN32
NCU PCB
DZYC0511#
or DZYC0512#
CN37
CN40
CN38
CN31
CN30
(U.K.,Italy,China only)
CN45
HAND
SET#
CN17
NCU
CN16
NCU
CN22
RDOOR
CN18
CCD
CN19
END
CN20
MIF
CN21
HEAD
CN10
PS
CN1
POW1 PCB
DZYC0537#
or
DZYC0557#
CN2
CN3
POW2 UNIT
120V ETXA53A6A#
220V ETXA53A6E#
CN4
CUTTER
MOTOR
CUTTER
SENSOR
THERMAL HEAD#
CN66
CN65
MIF PCB
DZYC0538
CN61
Reciving
DOOR
SENSOR
CCD PCB
DZYC0544#
CN60
ENDMK PCB
#
END MARK
SENSOR
CN11
RX MOTOR
RX
MOTOR
CN12
TX MOTOR
TX
MOTOR
CN13
LED
LED ARRAY#
SC PCB
DZYC0556#A (V40)
DZYC0556#B (V60)
CN14
STAMP
STAMP
CN15
PNL
CN52
CN51
CN55
CN56
LCD GLASS
5X7 20#5
DZZSP15015
FG
CN57
PANEL PCB
DZYC0543#A (V40)
DZYC0543#B (V60)
CN50
MIC
TEN-KEY
MATRIX SW
SHEET(Primary)
DZZSP08035#
(U.K.,Italy,China only)
TEN-KEY
MATRIX SW
SHEET(Secondary)
DZZSP08035
CN53
CN54
#:Depending on countries
Model
UF-V40
UF-V60
Drawing Name
General Circuit Diagram



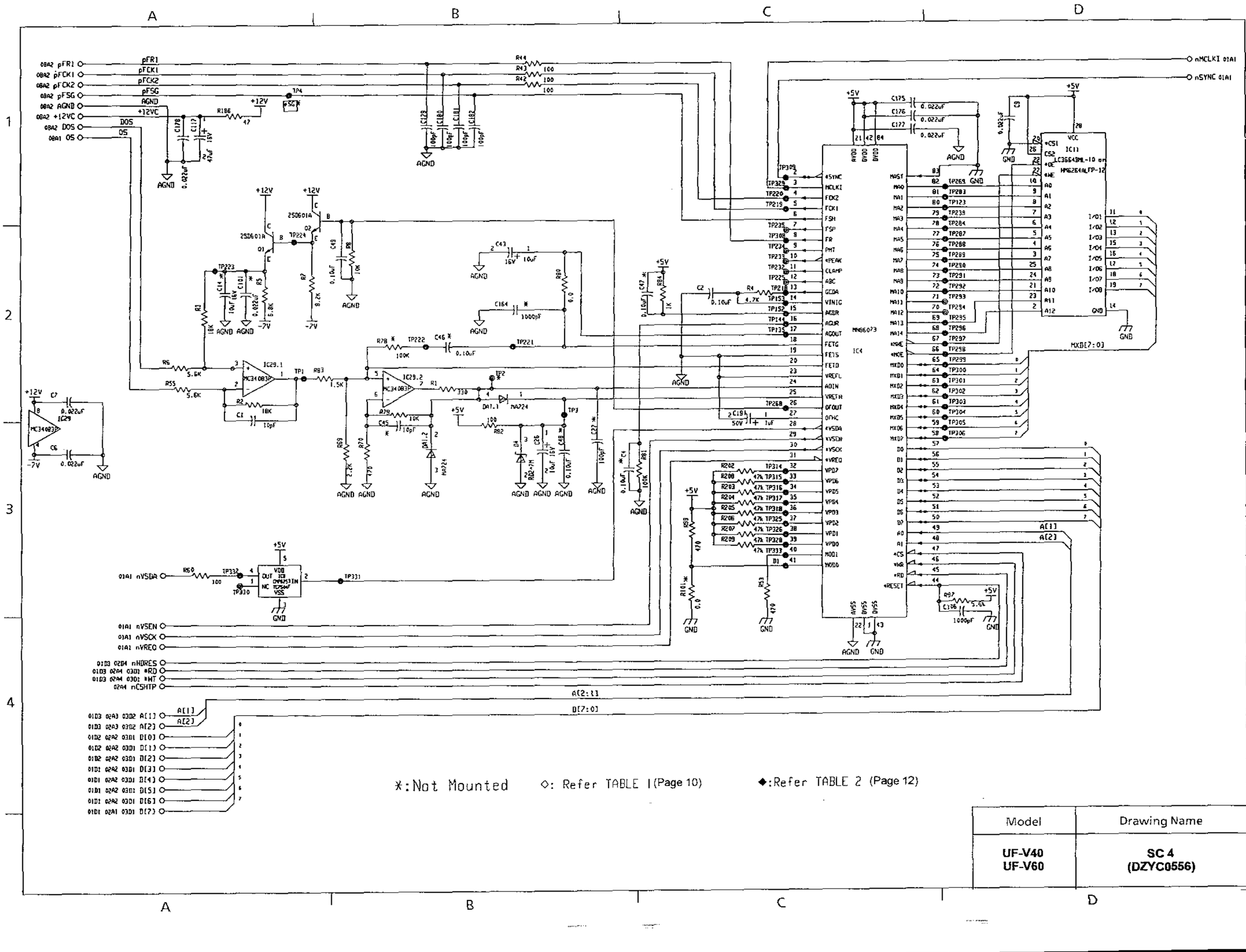
Model	Drawing Name
UF-V40 UF-V60	SC 1 (DZYC0556)



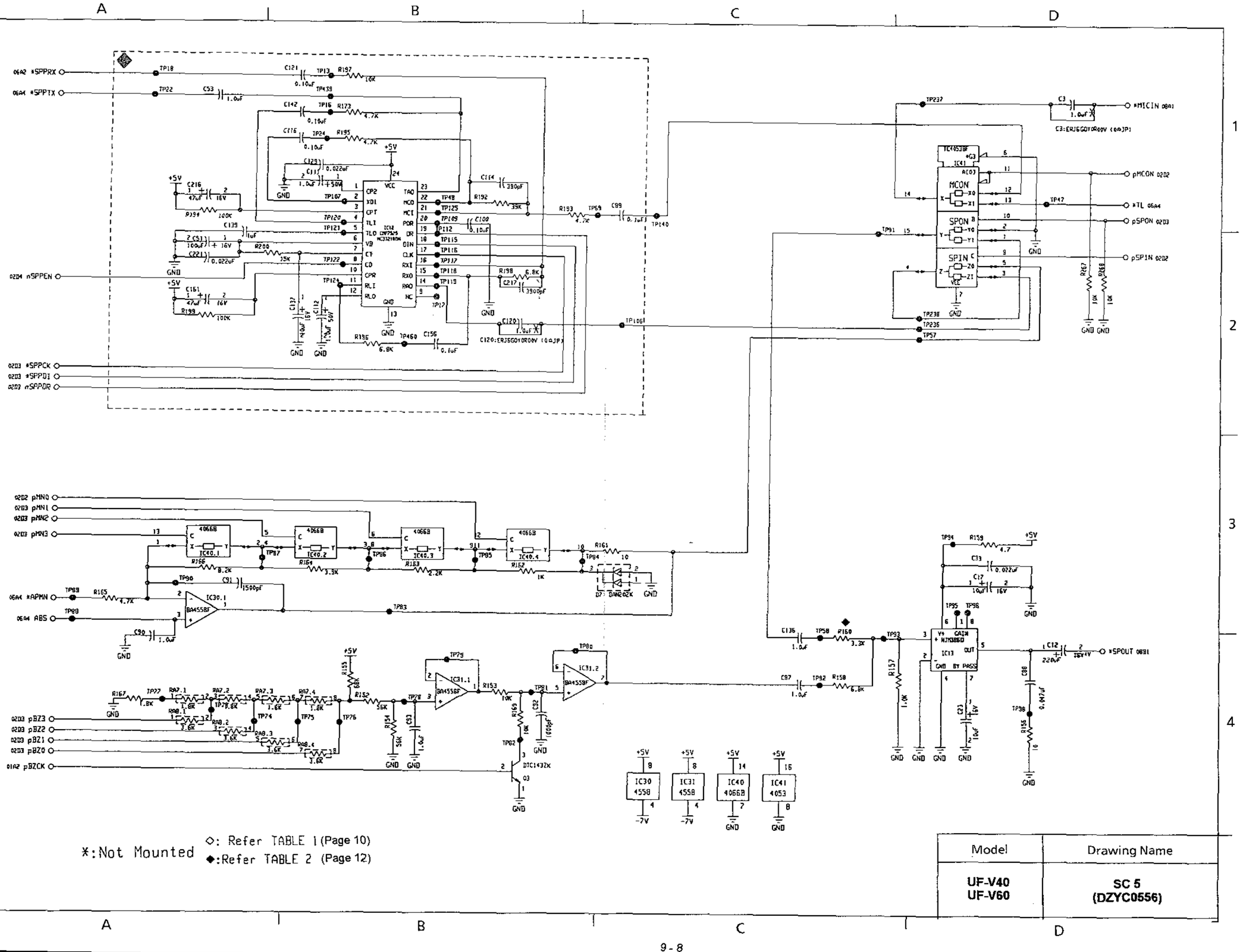
Model	Drawing Name
UF-V40 UF-V60	SC 2 (DZYC0556)



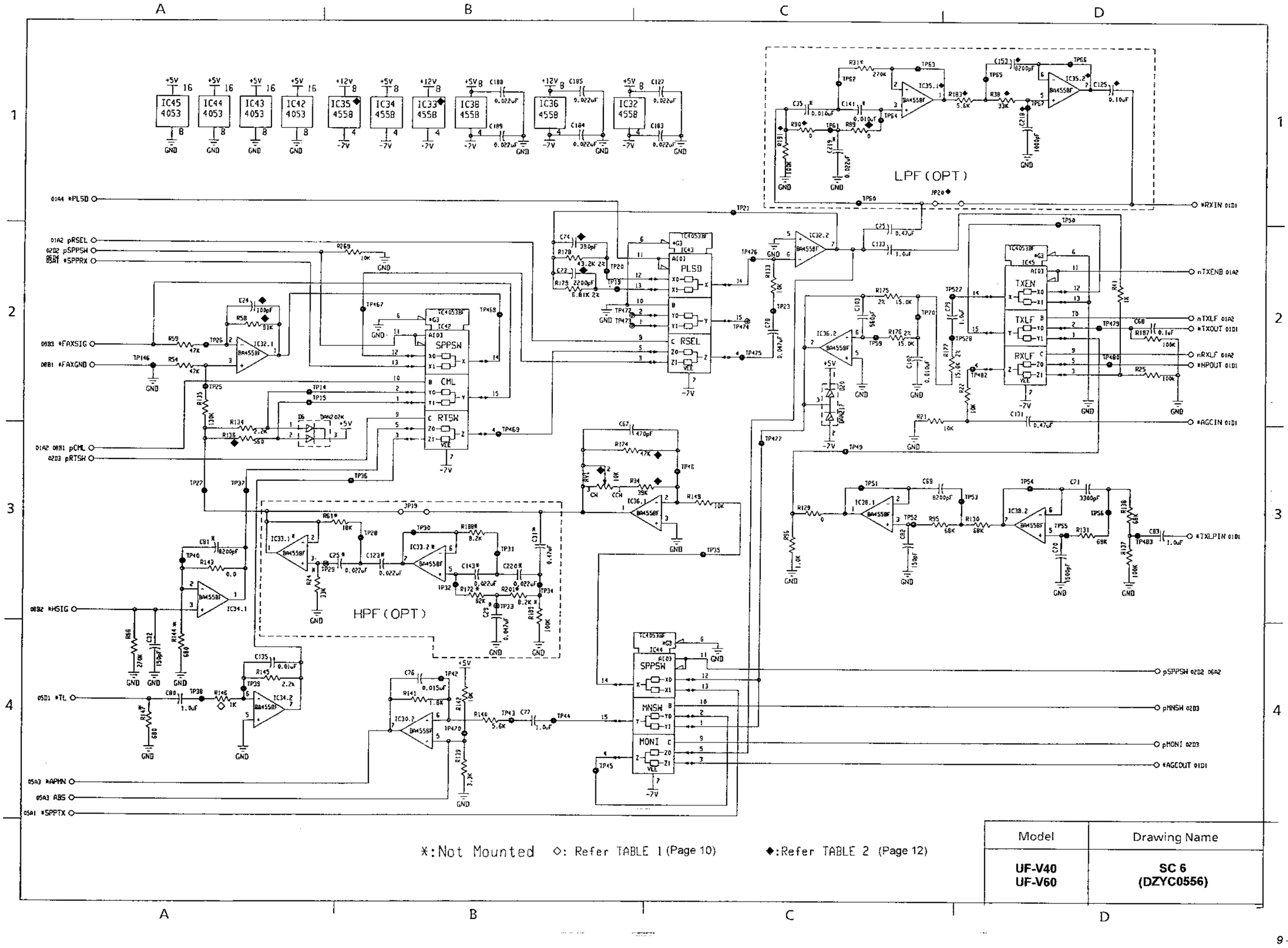
Model	Drawing Name
UF-V40 **UF-V60**	**SC 3** **(DZYC0556)**



Model	Drawing Name
UF-V40 UF-V60	SC 4 (DZYC0556)

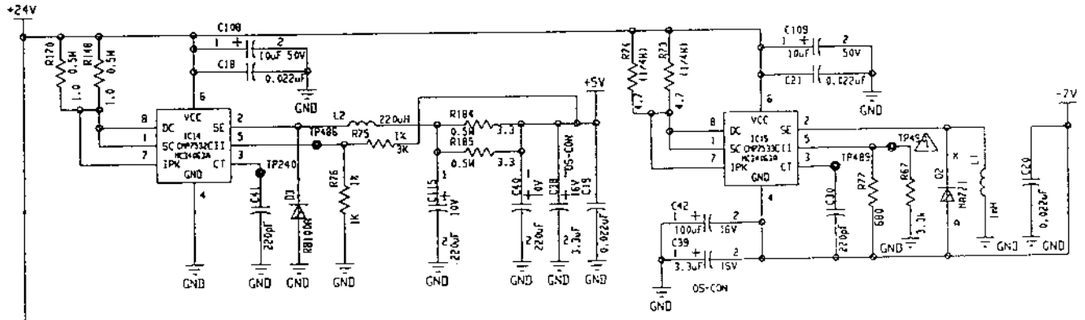


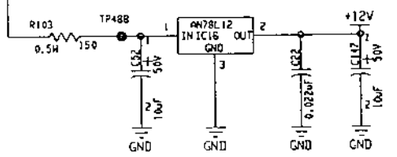
Model	Drawing Name
UF-V40 UF-V60	SC 5 (DZYC0556)

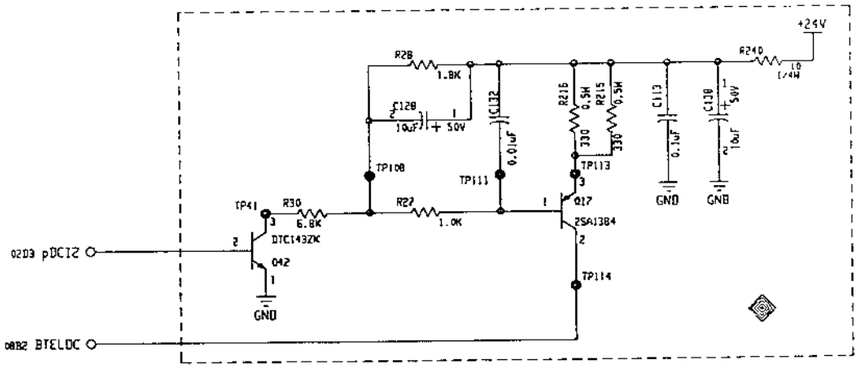


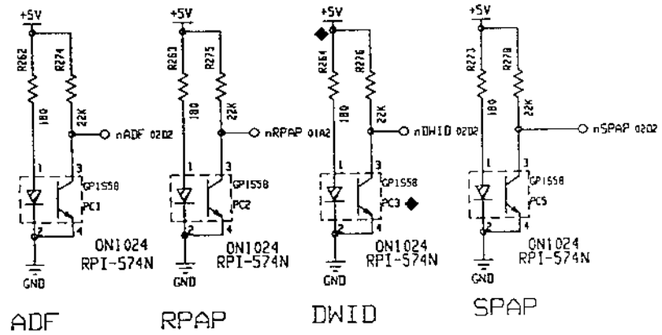
*:Not Mounted ◇: Refer TABLE 1 (Page 10) ◆:Refer TABLE 2 (Page 12)

Model	Drawing Name
UF-V40 UF-V60	SC 6 (DZYC0556)









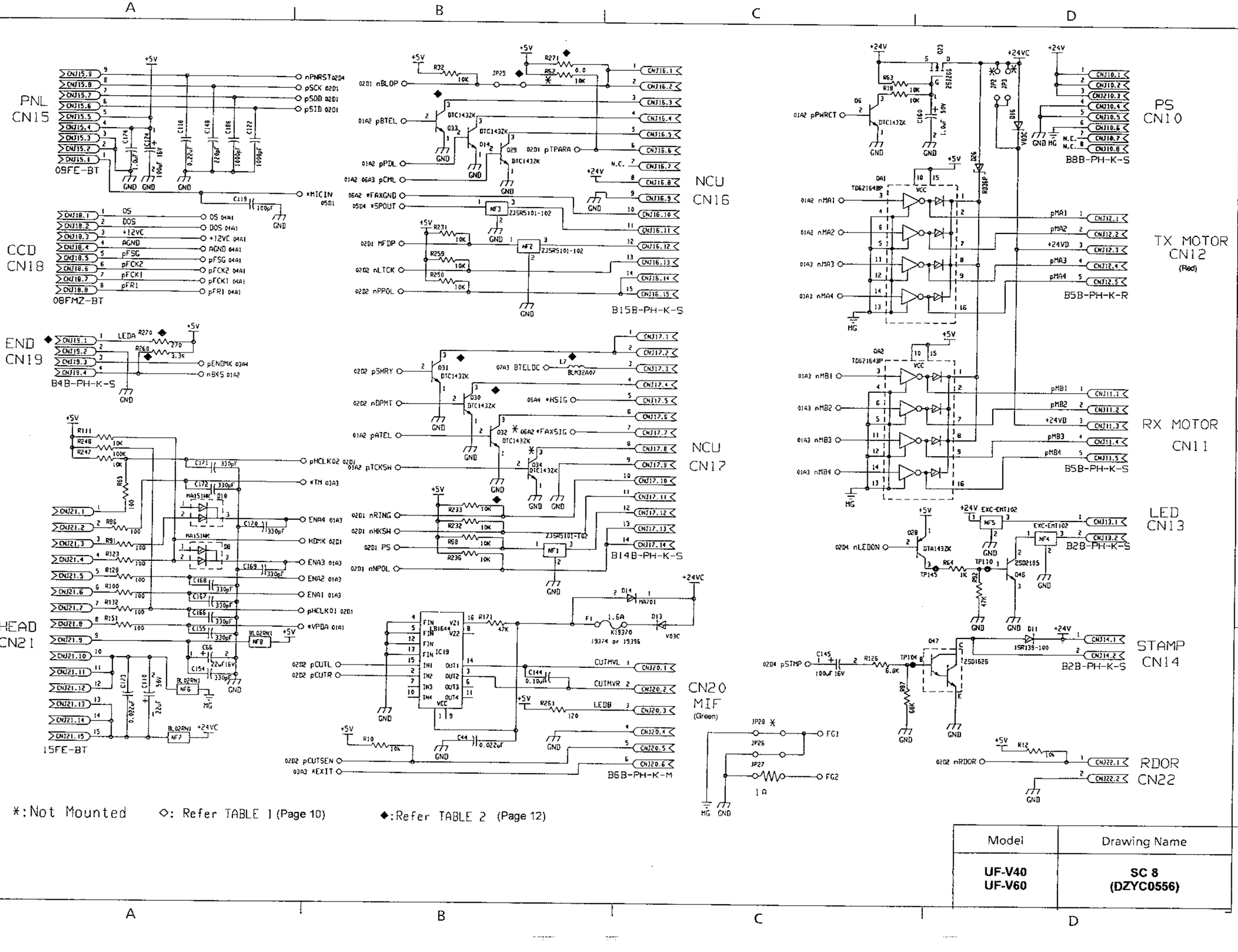
◇ TABLE 1

N.M.: NOT MOUNTED

		DZYC0556*A(R23)	DZYC0556*B(R24)				
X1	(01C2)	41.472MHz	—				
L4	(01C2)	N.M.	—				
C134	(01C2)	N.M.	—				
R124	(01C2)	0Ω	—				
R45	(01C2)	N.M.	—				
R511	(01C2)	0Ω	—				
R188	(02C4)	N.M.	—				
IC5	(02B2)	N.M.	E28F008SA				
Q4	(02B2)	N.M.	2SJ197				
Q15	(02B2)	N.M.	DTC143ZK				
R180	(02A2)	N.M.	10KΩ				
C55	(02B2)	N.M.	1uF 50V				
C59,95	(02B2)*	N.M.	0.022uF 50V				
IC7	(03B1)	TC51832	TC518128				
JP5,6	(03B2)	N.M.	0Ω				
R14	(03B1)	0Ω	10KΩ				
IC9	(03C1)	uPD43257	N.M.				
R19	(03B1)	1.8KΩ	2.2KΩ				
R146	(06A4)	1KΩ	12KΩ				

*:Not Mounted ◇: Refer TABLE 1 ◆:Refer TABLE 2 (Page 12)

Model	Drawing Name
UF-V40 UF-V60	SC 7 (DZYC0556)



Model	Drawing Name
UF-V40 UF-V60	SC 8 (DZYC0556)

TABLE 2

N.M.: NOT MOUNTED

Object Nation		DZYC0556G* GERMANY	DZYC0556U* USA	DZYC0556U* USA	DZYC0556V* CHINA	DZYC0556Y* EURO	DZYC0556Z* OTHER	DZYC0556 *
IC12	(05B1)	N.M.	MC33218DW	MC33218DW	N.M.	N.M.	N.M.	
C51	(05A2)	N.M.	100uF 16V	100uF 16V	N.M.	N.M.	N.M.	
C161,216	(05A2)	N.M.	47uF 16V	100uF 16V	N.M.	N.M.	N.M.	
C137	(05A2)	N.M.	10uF 16V	4.7uF 16V	N.M.	N.M.	N.M.	
C111,112	(05A2)	N.M.	1uF 50V	1uF 50V	N.M.	N.M.	N.M.	
C53,120,139	(05A2)	N.M.	1uF	1uF	N.M.	N.M.	N.M.	
C116,121,142	(05B1)	N.M.	0.1uF	0.1uF	N.M.	N.M.	N.M.	
C100,156	(05B2)	N.M.	0.1uF	0.1uF	N.M.	N.M.	N.M.	
C217	(05B2)	N.M.	3900pF	3900pF	N.M.	N.M.	N.M.	
C114	(05B1)	N.M.	390pF	8200pF	N.M.	N.M.	N.M.	
C129,221	(05B1)	N.M.	0.022uF	0.022uF	N.M.	N.M.	N.M.	
R197	(05B1)	N.M.	10KΩ	10KΩ	N.M.	N.M.	N.M.	
R173	(05B1)	N.M.	4.7KΩ	1.8KΩ	N.M.	N.M.	N.M.	
R195	(05B1)	N.M.	4.7KΩ	1KΩ	N.M.	N.M.	N.M.	
R193	(05B1)	N.M.	4.7KΩ	3.3KΩ	N.M.	N.M.	N.M.	
R194,199	(05A1)	N.M.	100KΩ	150KΩ	N.M.	N.M.	N.M.	
R192	(05B1)	N.M.	39KΩ	6.8KΩ	N.M.	N.M.	N.M.	
R200	(05B2)	N.M.	15KΩ	N.M.	N.M.	N.M.	N.M.	
R196	(05B2)	N.M.	6.8KΩ	6.8KΩ	N.M.	N.M.	N.M.	
R198	(05B2)	N.M.	6.8KΩ	6.8KΩ	N.M.	N.M.	N.M.	
R160	(05C3)	3.3KΩ	3.3KΩ	5.6KΩ	3.3KΩ	3.3KΩ	3.3KΩ	
C89	(05B1)	N.M.	0.1uF	0.15uF	N.M.	N.M.	N.M.	
JP20	(06C1)	N.M.	0Ω	0Ω	0Ω	0Ω	0Ω	
IC35	(06C1)	BA455BF	N.M.	N.M.	N.M.	N.M.	N.M.	
C24	(06A2)	270pF	100pF	100pF	100pF	100pF	100pF	
C73	(06B2)	3900pF	2200pF	2200pF	2200pF	2200pF	2200pF	
C74	(06B2)	560pF	390pF	390pF	390pF	390pF	390pF	
C125	(06D1)	0.1uF	N.M.	N.M.	N.M.	N.M.	N.M.	
C218	(06D1)	1000pF	N.M.	N.M.	N.M.	N.M.	N.M.	
C153	(06D1)	8200pF	N.M.	N.M.	N.M.	N.M.	N.M.	
R38	(06C1)	33KΩ	N.M.	N.M.	N.M.	N.M.	N.M.	
R58	(06A2)	120KΩ	91KΩ	91KΩ	91KΩ	91KΩ	91KΩ	
R89,90	(06C1)	0Ω	N.M.	N.M.	N.M.	N.M.	N.M.	
R136	(06A3)	470Ω	560Ω	560Ω	560Ω	560Ω	560Ω	
R183	(06D1)	5.6KΩ	N.M.	N.M.	N.M.	N.M.	N.M.	
R191	(06C1)	100KΩ	N.M.	N.M.	N.M.	N.M.	N.M.	
R174	(06B3)	N.M.	47KΩ	47KΩ	N.M.	47KΩ	47KΩ	
R34	(06B3)	39KΩ	N.M.	N.M.	39KΩ	N.M.	N.M.	
RV1	(06B3)	10KΩB	N.M.	N.M.	10KΩB	N.M.	N.M.	
PC3	(07B4)	N.M.	N.M.	N.M.	RPI-574N	N.M.	N.M.	
R264	(07B4)	N.M.	N.M.	N.M.	180Ω	N.M.	N.M.	

Object Nation		DZYC0556G* GERMANY	DZYC0556U* USA	DZYC0556V* CHINA	DZYC0556Y* EURO	DZYC0556Z* OTHER	DZYC0556 *
Q42	(07A3)	N.M.	N.M.	N.M.	N.M.	N.M.	
Q17	(07B3)	N.M.	N.M.	N.M.	N.M.	N.M.	
C128,138	(07A3)	N.M.	N.M.	N.M.	N.M.	N.M.	
C132	(07A3)	N.M.	N.M.	N.M.	N.M.	N.M.	
C113	(07B3)	N.M.	N.M.	N.M.	N.M.	N.M.	
R30	(07A3)	N.M.	N.M.	N.M.	N.M.	N.M.	
R28	(07A3)	N.M.	N.M.	N.M.	N.M.	N.M.	
R27	(07A3)	N.M.	N.M.	N.M.	N.M.	N.M.	
R215,216	(07B3)	N.M.	N.M.	N.M.	N.M.	N.M.	
R240	(07B3)	N.M.	N.M.	N.M.	N.M.	N.M.	
L7	(08B2)	N.M.	N.M.	N.M.			
Q30,31,33	(08B2)	DTC143ZK	N.M.	DTC143ZK	DTC143ZK	N.M.	
R233	(08B3)	N.M.	10KΩ	N.M.	N.M.	10KΩ	
R271	(08B1)	0Ω	N.M.	N.M.	0Ω	N.M.	
JP25	(08B1)	N.M.	0Ω	0Ω	N.M.	0Ω	
R226	(03A3)	22KΩ	N.M.	N.M.	N.M.	N.M.	
R270	(08A2)	120Ω	N.M.	N.M.	N.M.	N.M.	
R250	(08A2)	N.M.	N.M.	N.M.	N.M.	N.M.	
CN19	(08A2)	B3B-PH-K-S	N.M.	N.M.	N.M.	N.M.	

Model	Drawing Name
UF-V40 UF-V60	SC 9 (DZYC0556)

SC PC Board (DZYC0556) (2/13)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
C46 ~ C48	GRM4F104Z1ET / GRM4F104Z1HT	Ceramic Chip Capacitor	1	1	1	1	1	1	1	1
C49	GRM4F104Z1HT / GRM4F104Z1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C50	ECEA1CKS101B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C51	ECEA1CKS101	Electrolytic Capacitor,Al			1	1				
C52	ECEA1HKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C53	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer			1	1				
C54	GRM4C050D1HT	Ceramic Chip Capacitor, M Layer	1	1	1	1	1	1	1	1
C55	ECEA1HKA010	Electrolytic Capacitor,Al		1		1		1		1
C56	GRM4B392K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C57	GRM5R224K1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C58	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C59	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer		1		1		1		1
C60	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C61	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C62	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C63	ECEA1CKS101B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C64	ECEA1CKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C65	GRM4B102K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C66	ECEA1CKA220B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C67	GRM4C471J1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C68	GRM4F104Z1HT / GRM4F104Z1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C69	GRM4B822K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C70	GRM4B152K1HT	Ceramic Chip Capacitor, M Layer	1	1	1	1	1	1	1	1
C71	GRM4B332K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C72	GRM4F104Z1HT / GRM4F104Z1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C73	GRM4C222J1HT	Ceramic Chip Capacitor, S Layer			1	1	1	1	1	1
C73	GRM4C392J1HT	Ceramic Chip Capacitor, S Layer	1	1						
C74	GRM4C391J1HT	Ceramic Chip Capacitor, S Layer			1	1	1	1	1	1
C74	GRM4C561J1HT	Ceramic Chip Capacitor, S Layer	1	1						
C75	GRM5F474Z1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C76	GRM4B153K1HT	Ceramic Chip Capacitor, S Layer	1	1	1		1	1	1	1
C76	GRM4B223K1HT	Ceramic Chip Capacitor, S Layer				1				
C77	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1		1	1	1	1
C77	GRM4B104K1HT	Ceramic Chip Capacitor, S Layer				1				
C78	GRM4B473K1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C79, C80	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C82	GRM4C151K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C83	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1		1		1		1	
C83	GRM4B103K1HT	Ceramic Chip Capacitor, S Layer		1		1		1		1

9.2 SC PC Board (DZYC0556) (1/13)

Country Code Table

Country Code	GA	Germany (UF-V40)	Country Code	VA	China (UF-V40)
	GB	Germany (UF-V60)		VB	China (UF-V60)
	UA	North, Central & South America (UF-V40)		YA	Other Countries (UF-V40)
	UB	North, Central & South America (UF-V60)		YB	Other Countries (UF-V60)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
BAT1	VL1220-1HF1	Vanadium-Lithium Battery	1	1	1	1	1	1	1	1
C1	GRM4C100D1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C2	GRM4F104Z1HT / GRM4F104Z1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C3	ERJ6GEY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
C4	GRM4F104Z1ET / GRM4F104Z1HT	Ceramic Chip Capacitor	1	1	1	1	1	1	1	1
C5	ECEA1CKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C6, C7	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C8	GRM4F104Z1HT / GRM4F104Z1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C9	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C10	GRM4B473K1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C11	ECUV1H271KBN / GRM4C271K1HT	Ceramic Chip Capacitor, M Layer	1	1	1	1	1	1	1	1
C12	ECEA0GKA221	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C13	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C15, C16	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C17	ECEA1CKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C18 ~ C22	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C23	ECEA1CKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C24	GRM4C101K1HT	Ceramic Chip Capacitor, S Layer			1	1	1	1	1	1
C24	GRM4C271K1HT	Ceramic Chip Capacitor, M Layer	1	1						
C26	ECEA1CKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C30	GRM4C221K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C32	GRM4C151K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C33	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C34	GRM4C101K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C36, C37	ECEA1HKA010B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C38, C39	16SC3R3MT	OS Capacitor	1	1	1	1	1	1	1	1
C40	ECEA1AKS221E	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C41	GRM4C221K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C42	ECEA1CKS101B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C43	ECEA1CKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C44	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1

SC PC Board (DZYC0556) (3/13)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
C84 ~ C86	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C87	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C88	GRM4B473K1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C89	GRM4B104K1EY	Ceramic Chip Capacitor, S Layer			1					
C89	GRM4B683K1ET	Ceramic Chip Capacitor, S Layer				1				
C90	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C91	GRM4B152K1HT	Ceramic Chip Capacitor, M Layer	1	1	1	1	1	1	1	1
C92	GRM4B102K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C93	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C94	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C95	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer		1		1		1		1
C96, C97	GRM4C160J1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C98	GRM4B103K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C99	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C100	GRM4B104K1EY	Ceramic Chip Capacitor, S Layer			1	1				
C102	GRM4B103K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C103	GRM4C561J1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C104 ~ C107	GRM4B102K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C108	ECEA1HKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C109	ECEA1HKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C110	ECEA1HKA220	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C111	ECEA1HKA010	Electrolytic Capacitor,Al			1	1				
C112	ECEA1HKA010	Electrolytic Capacitor,Al			1	1				
C114	GRM4B122K1HT	Ceramic Chip Capacitor, S Layer			1					
C114	GRM4B822K1HT	Ceramic Chip Capacitor, S Layer				1				
C115	ECEA1AKS221E	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C116	GRM4B104K1EY	Ceramic Chip Capacitor, S Layer			1	1				
C117	ECEA1CKA470B ECEA1CKS470	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C118	GRM4F224Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C119	GRM4C101K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C120	ERJ6GQY0R00V	Metal Glaze Chip Resistor			1	1				
C121	GRM4B104K1EY	Ceramic Chip Capacitor, S Layer			1					
C121	GRM4B333K1HT	Ceramic Chip Capacitor, S Layer				1				
C122	GRM4B102K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C124	ECEA1CKS101B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C125	GRM4F104Z1ET	Ceramic Chip Capacitor, S Layer	1	1						
C126	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C127	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C129	GRM4F224Z1CY	Ceramic Chip Capacitor, S Layer			1	1				
C130	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C131	GRM5F474Z1ET	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C133	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1

SC PC Board (DZYC0556) (4/13)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
C135	GRM4B103K1HT	Ceramic Chip Capacitor, S Layer	1		1		1		1	
C135	GRM4B473K1HT	Ceramic Chip Capacitor, S Layer		1				1		1
C135	GRM4B223K1HT	Ceramic Chip Capacitor, S Layer				1				
C136	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1		1	1	1	1
C136	GRM4B393K1HT	Ceramic Chip Capacitor, S Layer				1				
C137	ECEA1CKA100B	Electrolytic Capacitor,Al			1					
C137	ECEA1EKA4R7B	Electrolytic Capacitor,Al				1				
C139	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer			1	1				
C140	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C142	GRM4B104K1EY	Ceramic Chip Capacitor, S Layer			1	1				
C144	GRM4B104Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C145	ECEA1CKS101B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C146	GRM4C050D1HT	Ceramic Chip Capacitor, M Layer	1	1	1	1	1	1	1	1
C147	ECEA1HKA100B	Electrolytic Capacitor,Al	1	1	1	1	1	1	1	1
C148	GRM4C221K1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C149	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C150	GRM4F223Z1HT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C151	GRM4F105Z1CT	Ceramic Chip Capacitor, S Layer	1	1	1	1	1	1	1	1
C153	GRM4F822K1HT	Ceramic Chip Capacitor, S Layer	1	1						
C154	GRM4C331K1HT	Ceramic Chip Capacitor, M Layer	1	1	1	1	1	1	1	1
C155	GRM4C331K1HT	Ceramic Chip Capacitor, M Layer	1	1	1	1	1	1	1	1
C156	GRM4B104K1EY	Ceramic Chip Capacitor, S Layer			1	1				
C157	GRM4F105Z1CT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C158	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C159	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C160	ECEA1HKA010B	Electrolytic Capacitor, Al	1	1	1	1	1	1	1	1
C161	ECEA1CKA470B	Electrolytic Capacitor, Al			1					
C161	ECEA1CKA101B	Electrolytic Capacitor, Al				1				
C162	GRM4C331K1HT	Ceramic Chip Capacitor, M-Layer	1	1	1	1	1	1	1	1
C163	GRM4C330K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C166 ~ C172	GRM4C331K1HT	Ceramic Chip Capacitor, M-Layer	1	1	1	1	1	1	1	1
C173	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C174	GRM4F105Z1CT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C175 ~ C178	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C179 ~ C182	GRM4C101K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C183 ~ C185	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C186	GRM4B102K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C187 ~ C189	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C190	GRM4C101K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C191	ECEA1HKA010B	Electrolytic Capacitor, Al	1	1	1	1	1	1	1	1

SC PC Board (DZYC0556) (5/13)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
C192 ~ C206	GRM4C101K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C208 ~ C215	GRM4C330K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C216	ECEA1CKA470B	Electrolytic Capacitor, Al			1					
C216	ECEA1CKA101B	Electrolytic Capacitor, Al				1				
C217	GRM4B392K1HT	Ceramic Chip Capacitor, S-Layer			1					
C217	GRM4B222K1HT	Ceramic Chip Capacitor, S-Layer				1				
C218	GRM4F102K1HT	Ceramic Chip Capacitor, S-Layer	1	1						
C221	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer			1	1				
C230	GRM4C470J1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
C231	GRM4C470J1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1	1	1	1	1
CN10	B8B-PH-K-S	Connector	1	1	1	1	1	1	1	1
CN11	B5B-PH-K-S	Connector	1	1	1	1	1	1	1	1
CN12	B5B-PH-K-R	Connector	1	1	1	1	1	1	1	1
CN13	B2B-PH-K-S	Connector	1	1	1	1	1	1	1	1
CN14	B2B-PH-K-S	Connector	1	1	1	1	1	1	1	1
CN15	09FE-BT ILFPC9STN	Connector	1	1	1	1	1	1	1	1
CN16	B15B-PH-K-S	Connector	1	1	1	1	1	1	1	1
CN17	B14B-PH-K-S	Connector	1	1	1	1	1	1	1	1
CN18	08FMZ-BT	Connector	1	1	1	1	1	1	1	1
CN19	B3B-PH-K-S	Connector	1	1						
CN20	B6B-PH-K-M	Connector	1	1	1	1	1	1	1	1
CN21	15FE-BT ILFPC15STN	Connector	1	1	1	1	1	1	1	1
CN22	B2B-PH-K-S	Connector	1	1	1	1	1	1	1	1
D2	MA721	Diode,200MA	1	1	1	1	1	1	1	1
D3	RB100A-T62	Diode	1	1	1	1	1	1	1	1
D4	RD2-7M	Zener Diode	1	1	1	1	1	1	1	1
D5	DAN217	Diode,SI	1	1	1	1	1	1	1	1
D6 ~ D8	MA151WK DAN202K	Diode,100MA	1	1	1	1	1	1	1	1
D9	RB421D	Diode	1	1	1	1	1	1	1	1
D10	MA151WK DAN202K	Diode,100MA	1	1	1	1	1	1	1	1
D11	1SR139-100	Diode,1A	1	1	1	1	1	1	1	1
D13	V03C	Diode,SI 1.3A	1	1	1	1	1	1	1	1
D14	MA701 MA701A	Diode,1A	1	1	1	1	1	1	1	1
D16	V03C	Diode,SI 1.3A	1	1	1	1	1	1	1	1
D20	DAN217	Diode,SI	1	1	1	1	1	1	1	1
D26	RD36P	Zener Diode	1	1	1	1	1	1	1	1
DA1	MA724	Diode,200MA	1	1	1	1	1	1	1	1
F1	TR-5	Fuse,1.6A/FAST	1	1	1	1	1	1	1	1

SC PC Board (DZYC0556) (6/13)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
IC1	MN195002MFA	IC,MOS Logic (Other) MODEM	1	1	1	1	1	1	1	1
IC2	MN86111	IC,Logic (Other) Analogue	1	1	1	1	1	1	1	1
IC3	DZZSP58029	IC,CMOS Gate Array	1	1	1	1	1	1	1	1
IC4	MN86073	IC,MOS Logic (Other) FRIP	1	1	1	1	1	1	1	1
IC5	E28F008SA-12	IC,Flash		1		1		1		1
IC6	M5M27C401AK1 M5M27C401AK2 M5M27C401AK5 LE27C4001F15 LE27C4001F10 LE27C4001F12 LE27C4001F15 M27C4001-10F1 M27C4001-12F1 M27C4001-15F1 uPD27C4001DZ TMS27C040-10 TMS27C040-12 TMS27C040-15	IC,MOS 4M EPROM,150NS	1	1	1	1	1	1	1	1
IC7	LC33832M-10	IC,MOS 256K PSRAM,100NS	1		1		1		1	
IC7	TC51832AFL-85	IC,MOS 256K PSRAM,100NS	1		1		1		1	
IC7	TC518128AFL8	IC,MOS 1M SRAM,80NS		1		1		1		1
IC7	LH5P8128N-80	IC,MOS 1M SRAM,80NS		1		1		1		1
IC8	TC7SU04F	IC,MOS Logic	1	1	1	1	1	1	1	1
IC9	43257BGU-80L	IC,MOS 256K SRAM 80NS	1		1		1		1	
IC10	UPD4992GS	IC,MOS Logic (Other)	1	1	1	1	1	1	1	1
IC11	LC3664BML-10	IC,MOS 64K SRAM,100NS	1	1	1	1	1	1	1	1
IC12	MC33218DWR2	IC,Linear			1	1				
IC13	NJM386M	IC,Linear AUDIO	1	1	1	1	1	1	1	1
IC14	MC34063AP1	IC,Linear	1	1	1	1	1	1	1	1
IC15	MC34063AP1	IC,Linear	1	1	1	1	1	1	1	1
IC16	NJM78L12UA	IC,Linear Regulator	1	1	1	1	1	1	1	1
IC19	LB1644	IC,Linear Motor Driver	1	1	1	1	1	1	1	1
IC20	PST9142NR	IC,BIPOLAR Logic	1	1	1	1	1	1	1	1
IC22	TC7SU04F	IC,MOS Logic	1	1	1	1	1	1	1	1
IC25~ IC27	UPC4558G2 BA4558F NJM4558M	IC,Linear OPAMP	1	1	1	1	1	1	1	1
IC28	BA10339F	IC,Linear Comparator	1	1	1	1	1	1	1	1
IC29	MC34083P	IC,Linear OPAMP	1	1	1	1	1	1	1	1
IC30~ IC32	UPC4558G2 BA4558F NJM4558M	IC,Linear OPAMP	1	1	1	1	1	1	1	1

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Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
IC34	UPC4558G2 BA4558F NJM4558M	IC,Linear OPAMP	1	1	1	1	1	1	1	1
IC35	NJM4558M	IC,Linear OPAMP	1	1						
IC36, IC38	UPC4558G2 BA4558F NJM4558M	IC,Linear OPAMP	1	1	1	1	1	1	1	1
IC40	BU4066BCF	IC,CMOS Standard Logic	1	1	1	1	1	1	1	1
IC41 ~ IC45	BU4053BCF	IC,CMOS Standard Logic	1	1	1	1	1	1	1	1
JP1	ERJ6GQY0R00V	Metal Galze Chip Resistor	1	1	1	1	1	1	1	1
JP5, JP6	ERJ6GQY0R00V	Metal Galze Chip Resistor		1		1		1		1
JP19	ERJ6GQY0R00V	Metal Galze Chip Resistor	1	1	1	1	1	1	1	1
JP20	ERJ6GQY0R00V	Metal Galze Chip Resistor			1	1	1	1	1	1
JP25	ERJ6GQY0R00V	Metal Galze Chip Resistor			1	1	1	1		
JP26	ERJ6GQY0R00V	Metal Galze Chip Resistor	1	1	1	1	1	1	1	1
JP27	ERJ6GQYJ1R0V	Metal Galze Chip Resistor	1	1	1	1	1	1	1	1
L1	LHL08TB102J	Inductance	1	1	1	1	1	1	1	1
L2	LHL08TB221K	Inductance	1	1	1	1	1	1	1	1
L3	BLM32A07PT	Inductance	1	1	1	1	1	1	1	1
L5	BLM32A07PT	Inductance	1	1	1	1	1	1	1	1
L6	ACB2012M-150	Inductor	1	1	1	1	1	1	1	1
NF1 ~ NF3	ZJSR5101-331	EMI Filter	1	1	1	1	1	1	1	1
NF4	EXC-EMT102	EMI Filter	1	1	1	1	1	1	1	1
NF5	EXC-EMT102	EMI Filter	1	1	1	1	1	1	1	1
NF6 ~ NF8	BL02RN1R62T2	Coil	1	1	1	1	1	1	1	1
PC1, PC2	RPI-574N 0N1024	Photo Sensor	1	1	1	1	1	1	1	1
PC3	RPI-574N 0N1024	Photo Interrupter					1	1		
PC5	RPI-574N 0N1024	Photo Interrupter	1	1	1	1	1	1	1	1
Q1, Q2	2SD601A	Transistor,SI 150MH 0.2W	1	1	1	1	1	1	1	1
Q3	DTC143ZK	Transistor SI	1	1	1	1	1	1	1	1
Q4	2SJ197	FET		1		1		1		1
Q5, Q6	DTC143ZK	Transistor SI	1	1	1	1	1	1	1	1
Q14	DTC143ZK	Transistor SI	1	1	1	1	1	1	1	1
Q15	DTC143ZK	Transistor SI		1		1		1		1
Q23	2SJ266-DL	FET	1	1	1	1	1	1	1	1
Q28	DTA143ZK	Transistor SI	1	1	1	1	1	1	1	1
Q29	DTC143ZK	Transistor SI	1	1	1	1	1	1	1	1
Q30	DTC143ZK	Transistor SI	1	1					1	1
Q31	DTC143ZK	Transistor SI	1	1					1	1

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Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
Q32	DTC143ZK	Transistor SI	1	1	1	1	1	1	1	1
Q33	DTC143ZK	Transistor SI	1	1					1	1
Q34	DTC143ZK	Transistor SI	1	1	1	1	1	1	1	1
Q46	2SD2185	Transistor	1	1	1	1	1	1	1	1
Q47	2SD1626	Transistor SI,1.5W	1	1	1	1	1	1	1	1
QA1	TD62164BP	IC,BIPOLAR TR-Array	1	1	1	1	1	1	1	1
QA2	TD62164BP	IC,BIPOLAR TR-Array	1	1	1	1	1	1	1	1
R1	ERJ6GQYJ331V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R2, R3	ERJ6GQYJ183V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R4	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R5	ERJ6GQYJ682V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R6	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R7	ERJ6GQYJ682V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R8	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R10 ~ R12	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R13	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R14	ERJ6GQYJ103V	Metal Glaze Chip Resistor		1		1		1		1
R14	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1		1		1		1	
R15, R16	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R17	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R18	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R19	ERJ6GQYJ182V	Metal Glaze Chip Resistor	1		1		1		1	
R19	ERJ6GQYJ222V	Metal Glaze Chip Resistor		1		1		1		1
R20	ERJ6GQYJ511V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R21	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R22	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R25	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R32	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R34	ERJ6GQYJ393V	Metal Glaze Chip Resistor	1	1			1	1		
R34	ERJ6GQYJ563V	Metal Glaze Chip Resistor					1	1		
R35	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R37	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R38	ERJ6GQYJ333V	Metal Glaze Chip Resistor	1	1						
R41	ERJ6GEYF102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R42 ~ R44	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R46, R47	ERJ6GQYJ303V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R48	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R49	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R50 ~ R52	ERJ6GQYJ393V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R53	ERJ6GQYJ471V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R54	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R55	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1

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Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
R56	ERJ6GQYJ153V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R57	ERJ6GQYJ333V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R58	ERJ6GQYJ124V	Metal Glaze Chip Resistor	1	1						
R58	ERJ6GQYJ913V	Metal Glaze Chip Resistor			1	1	1	1	1	1
R59	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R60	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R63	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R64	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R65	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R66	ERJ6GQYJ274V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R67	ERJ6GQYJ332V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R68	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R69	ERJ6GQYJ222V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R70	ERJ6GQYJ471V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R71, R72	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R73, R74	ERJ8GEYJ4R7V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R75	ERJ6GEYF302V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R76	ERJ6GEYF102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R77	ERJ6GQYJ681V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R79	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R80	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R81	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R82	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R83	ERJ6GQYJ152V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R84	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R85	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R86	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R87	ERJ6GQYJ683V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R89, R90	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1						
R91	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R92	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R93, R94	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R95	ERJ6GQYJ683V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R96	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R97	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R98	ERJ6GQYJ221V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R99	ERJ6GQYJ471V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R100	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R102	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R103	ERJ12YJ151H	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R104	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R105	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R108	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R109	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1

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Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
R110	ERJ6GQYJ3R3V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R111	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R112	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R113	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R114	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R115	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R116	ERJ6GQYJ393V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R117 ~ R120	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R121	ERJ6GQYJ393V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R122	ERJ6GQYJ100V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R123	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R124	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R126	ERJ6GQYJ682V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R127	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R128	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R129	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R130	ERJ6GQYJ683V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R131	ERJ6GQYJ683V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R132	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R133	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R134	ERJ6GQYJ222V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R135	ERJ6GQYJ134V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R136	ERJ6GQYJ471V	Metal Glaze Chip Resistor	1	1						
R136	ERJ6GQYJ561V	Metal Glaze Chip Resistor			1	1	1	1	1	1
R137	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R138	ERJ6GQYJ683V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R139	ERJ6GQYJ332V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R140	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1		1	1	1	1
R140	ERJ6GQYJ332V	Metal Glaze Chip Resistor				1				
R141	ERJ6GQYJ182V	Metal Glaze Chip Resistor	1	1	1		1	1	1	1
R141	ERJ6GQYJ222V	Metal Glaze Chip Resistor				1				
R142	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R143	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R145	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1		1		1		1	
R145	ERJ6GQYJ561V	Metal Glaze Chip Resistor		1				1		1
R145	ERJ6GQYJ222V	Metal Glaze Chip Resistor				1				
R146	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1		1		1		1	
R146	ERJ6GQYJ222V	Metal Glaze Chip Resistor		1		1		1		1
R148	ERJ12YJ1R0H	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R149	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R151	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R152	ERJ6GQYJ563V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R153	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1

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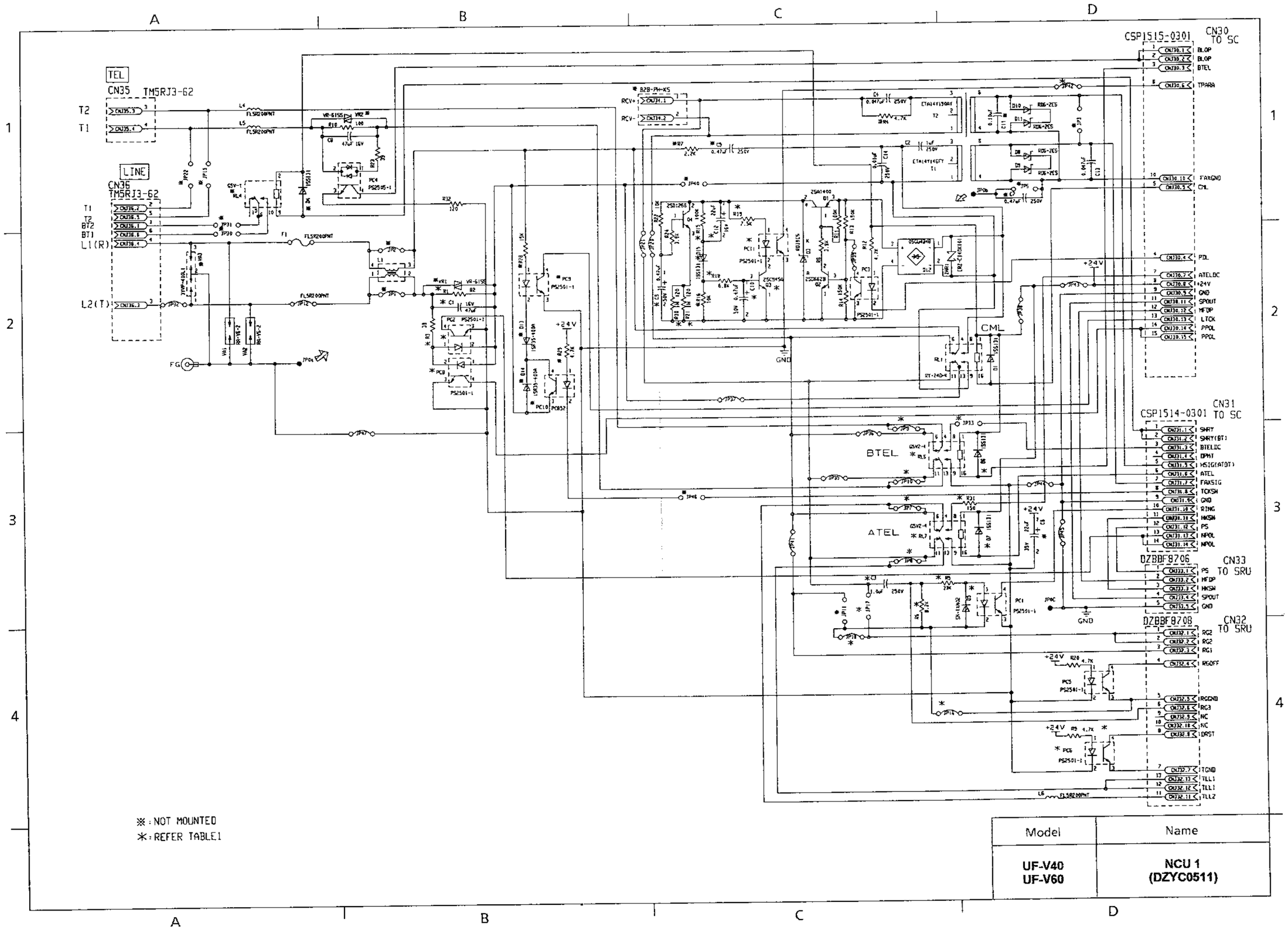
Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
R154	ERJ6GQYJ563V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R155	ERJ6GQYJ683V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R156	ERJ6GQYJ100V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R157	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R158	ERJ6GQYJ682V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R159	ERJ6GQYJ3R3V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R160	ERJ6GQYJ332V	Metal Glaze Chip Resistor	1	1	1		1	1	1	1
R160	ERJ6GQYJ562V	Metal Glaze Chip Resistor				1				
R161	ERJ6GQYJ100V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R162	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R163	ERJ6GQYJ222V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R164	ERJ6GQYJ392V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R165	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R166	ERJ6GQYJ822V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R167	ERJ6GQYJ182V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R168	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R169	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R170	ERJ12YJ1R0H	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R171	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R173	ERJ6GQYJ472V	Metal Glaze Chip Resistor			1					
R173	ERJ6GQYJ182V	Metal Glaze Chip Resistor				1				
R174	ERJ6GQYJ473V	Metal Glaze Chip Resistor			1	1			1	1
R175 ~ R177	ERJ6GQYG153V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R178	ERJ6GQYG433V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R179	ERJ6GQYG682V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R180	ERJ6GQYJ103V	Metal Glaze Chip Resistor		1		1		1		1
R182	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R183	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1						
R184, R185	ERJ12YJ3R3H	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R186	ERJ6GQYJ470V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R187	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R191	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1						
R192	ERJ6GQYJ393V	Metal Glaze Chip Resistor			1					
R192	ERJ6GQYJ682V	Metal Glaze Chip Resistor				1				
R193	ERJ6GQYJ472V	Metal Glaze Chip Resistor			1					
R194	ERJ6GQYJ104V	Metal Glaze Chip Resistor			1					
R195	ERJ6GQYJ472V	Metal Glaze Chip Resistor			1					
R195	ERJ6GQYJ152V	Metal Glaze Chip Resistor				1				
R196	ERJ6GQYJ472V	Metal Glaze Chip Resistor				1				
R196	ERJ6GQYJ682V	Metal Glaze Chip Resistor			1					
R197	ERJ6GQYJ103V	Metal Glaze Chip Resistor			1	1				
R198	ERJ6GQYJ682V	Metal Glaze Chip Resistor			1					
R198	ERJ6GQYJ123V	Metal Glaze Chip Resistor				1				

SC PC Board (DZYC0556) (12/13)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
R199	ERJ6GQYJ104V	Metal Glaze Chip Resistor			1					
R200	ERJ6GQYJ153V	Metal Glaze Chip Resistor			1					
R202 ~ R209	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R220	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R226	ERJ6GQYJ223V	Metal Glaze Chip Resistor	1	1						
R227	ERJ6GQYJ223V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R228	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R229	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R230	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R231	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R232	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R233	ERJ6GQYJ103V	Metal Glaze Chip Resistor			1	1	1	1		
R236	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R244	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R247	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R248	ERJ6GQYJ104V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R250	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R251	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R252	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R258	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R259	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R261	ERJ6GQYJ121V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R262	ERJ6GQYJ181V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R263	ERJ6GQYJ181V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R264	ERJ6GQYJ181V	Metal Glaze Chip Resistor					1	1		
R267	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R268	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R269	ERJ6GQYJ103V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R270	ERJ6GQYJ121V	Metal Glaze Chip Resistor	1	1						
R271	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1					1	1
R273	ERJ6GQYJ181V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R274 ~ R276	ERJ6GQYJ223V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R278	ERJ6GQYJ223V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R279	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R280	ACB2012M-150	Inductor	1	1	1	1	1	1	1	1
R281	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R283	ERJ6GQYJ682V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
R511	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1	1	1	1	1
RA1 ~ RA3	MNR34J5AJ101	Resistor	1	1	1	1	1	1	1	1
RA7	MNR34J5AJ182	Resistor	1	1	1	1	1	1	1	1
RA8	MNR34J5AJ362	Resistor	1	1	1	1	1	1	1	1
RV1	EVMMCSA01B14	Variable Resistor	1	1			1	1		

SC PC Board (DZYC0556) (13/13)

Ref. No.	Part No.	Description	GA	GB	UA	UB	VA	VB	YA	YB
X 1	MA406	Crystal Quartz	1	1	1	1	1	1	1	1
X 2	MC306	Crystal Quartz	1	1	1	1	1	1	1	1



Model	Name
UF-V40 UF-V60	**NCU 1 (DZYC0511)**

TABLE 1

No.	Ref.No.	DZYC0511Z	DZYC0511U ※1	DZYC0511YV		
1	R1	82Ω 1/4W	0Ω 1/4W	0Ω 1/4W		
2	R3	39Ω 1/4W	- - - -	- - - -		
3	R5	10KΩ 1/4W	33KΩ 1W	33KΩ 1W		
4	R6	- - - -	8.2KΩ 1W	8.2KΩ 1W		
5	R9	4.7KΩ 1/4W	- - - -	4.7KΩ 1/4W		
6	R15	- - - -	100KΩ 1/4W	100KΩ 1/4W		
7	R18	- - - -	6.8KΩ 1/4W	6.8KΩ 1/4W		
8	R19	- - - -	7.5KΩ 1/4W	7.5KΩ 1/4W		
9	R21	0Ω 1/4W	120Ω 1W	120Ω 1W		
10	R30	- - - -	120Ω 1W	120Ω 1W		
11	R31	150Ω 1/4W	- - - -	- - - -		
12	C1	47uF,NP,10V	- - - -	- - - -		
13	C3	- - - -	1uF,250V	1uF,250V		
14	C9	1.8uF,50V	1uF,50V	1uF,50V		
15	C10	- - - -	0.47uF,50V	0.47uF,50V		
16	C12	- - - -	22uF,50V	22uF,50V		
17	Q3	- - - -	2SC945A	2SC945A		
18	D5	- - - -	SM1XN-02	SM1XN-02		
19	D6,7	1SS131T-77	- - - -	- - - -		
20	D15	- - - -	1SS131T-77	1SS131T-77		
21	PC2,8	PS2501-1	- - - -	- - - -		
22	PC6	PS2501-1	- - - -	PS2501-1		
23	PC11	- - - -	PS2501-1	PS2501-1		
24	RL6,7	G5V2-4	- - - -	- - - -		
25	JP16,17,33	0Ω 1/4W	- - - -	- - - -		
26	JP7,8,9 10,18,42	- - - -	0Ω 1/4W	0Ω 1/4W		
27						
28						
29						
30						
31						
32						
33						
34						
Object Nation		JAPAN	USA	CHINA		

------ : NOT MOUNTED

※1 : DZYC0511U-3 Refer to its drawing

Model	Name
UF-V40 UF-V60	**NCU 2 (DZYC0511)**

9.3 NCU PC Board (DZYC0511) (1/3)

Country Code Table

Country Code		
	U	U.S.A.
	YV	China

Ref. No.	Part No.	Description	U	YV
C2	ECQE2105KF	Plastic Capacitor,Poly	1	1
C3	ECQE2105KF	Plastic Capacitor,Poly	1	1
C4	ECQE2473KF	Plastic Capacitor,Poly	1	1
C8	ECEA1AKN470	Electrolytic Capacitor, Al	1	1
C9	ECQV1H105JM	Plastic Capacitor,Poly	1	1
C10	ECQV1H474JM	Plastic Capacitor,Poly	1	1
C12	ECEA1HKA220	Electrolytic Capacitor, Al	1	1
C13	ECQB1H473JF	Plastic Capacitor,Poly	1	1
C14	ECQE2103KF	Plastic Capacitor	1	1
CN30	CSP1515-0301	Connector	1	1
CN31	CSP1514-0301	Connector	1	1
CN32	DZFP000054	Strap, SRU2	1	1
CN33	DZFP000053	Strap, SRU	1	1
CN35 ~ CN36	TM5RJ3-62 / HJC0268-01212	Modular Jack	1	1
D1	1SS131T-77	Diode,130MA	1	1
D3	RD39ES-T1 / MTZJ39B	Zener Diode	1	1
D5	SM-1XN-02 / 1SR35-400AT	Diode,1A	1	1
D8 ~ D11	RD6-2ES / MTZJ6-2B	Zener Diode	1	1
D12	05GU4B48	Diode,0.5A	1	1
D15	1SS131T-77	Diode,130MA	1	1
F1	FL5R200PNT	Inductors	1	1
FG	TW-4BS-2K	Earth Lag	1	1
JP7 ~ JP10	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
JP12	FL5R200PNT	Inductors	1	1
JP18	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
JP20	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
JP21	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
JP32	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
JP35 ~ JP39	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
JP41 ~ JP45	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
JP47	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
L1	UF1717V	Choke Coil	1	1
L4	FL5R200PNT	Inductors	1	1
L5	FL5R200PNT	Inductors	1	1

NCU PC Board (DZYC0511) (2/3)

Ref. No.	Part No.	Description	U	YV
L6	FL5R200PNT / SBT0260TF	Inductors	1	1
PC1	PS2501-1 / PC817B	Photo Coupler	1	1
PC3	PS2501-1 / PC817CD / PC817B	Photo Coupler	1	1
PC4	PS2505-1 / PC814A	Photo Coupler	1	1
PC5	PS2501-1 / PC817CD / PC817B	Photo Coupler	1	1
PC6	PS2501-1 / PC817CD / PC817B	Photo Coupler		1
PC11	PS2501-1 / PC817CD / PC817B	Photo Coupler	1	1
Q1	2SA1400K	Transistor,SI,10W	1	1
Q2	2SD662B-R	Transistor,SI,0.6W	1	1
Q3	2SC945A-PA	Transistor,SI,0.25W	1	1
Q4	2SD1266-P	Transistor,SI,35W	1	1
R1	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
R5	ERG1SJ333P	Metal Film Oxide Resistor,1W	1	1
R6	ERG1SJ822P	Metal Film Oxide Resistor,1W	1	1
R8	ERDS2TJ392	Carbon Film Resistor,1/4W	1	1
R9	ERDS2TJ472	Carbon Film Resistor,1/4W	1	1
R10	ERDS2TJ101	Carbon Film Resistor,1/4W	1	1
R11	ERDS2TJ104	Carbon Film Resistor,1/4W	1	1
R12	ERDS2TJ472	Carbon Film Resistor,1/4W	1	1
R13	ERDS2TJ154	Carbon Film Resistor,1/4W	1	1
R14	ERDS2TJ154	Carbon Film Resistor,1/4W	1	1
R15	ERDS2TJ104	Carbon Film Resistor,1/4W	1	1
R18	ERDS2TJ682	Carbon Film Resistor,1/4W	1	1
R19	ERDS2TJ752	Carbon Film Resistor,1/4W	1	1
R20	ERDS2TJ472	Carbon Film Resistor,1/4W	1	1
R21	ERG1SJ121P	Metal Film Oxide Resistor,1W	1	1
R22	ERDS2TJ103	Carbon Film Resistor,1/4W	1	1
R23	ERDS2TJ390	Carbon Film Resistor,1/4W	1	1
R24	ERDS2TJ392	Carbon Film Resistor,1/4W	1	1
R30	ERG1SJ121P	Metal Film Oxide Resistor,1W	1	1
R32	ERDS2TJ121	Carbon Film Resistor,1/4W	1	1
RL1	RY-24D-K / MR62-24US2R	Relay, DC24V	1	1

NCU PC Board (DZYC0511) (3/3)

Ref. No.	Part No.	Description	U	YV
T1	ETA-14Y146FY	Line Transformer,4.0VA	1	1
T2	ETA-14Y190AY	Line Transformer,4.0VA	1	1
VA1	RA391MV6Y2	Arrester	1	1
VA2	RA391MV6Y2	Arrester	1	1
ZNR1	ERZ-C14DK101	Varistor, 100V	1	1

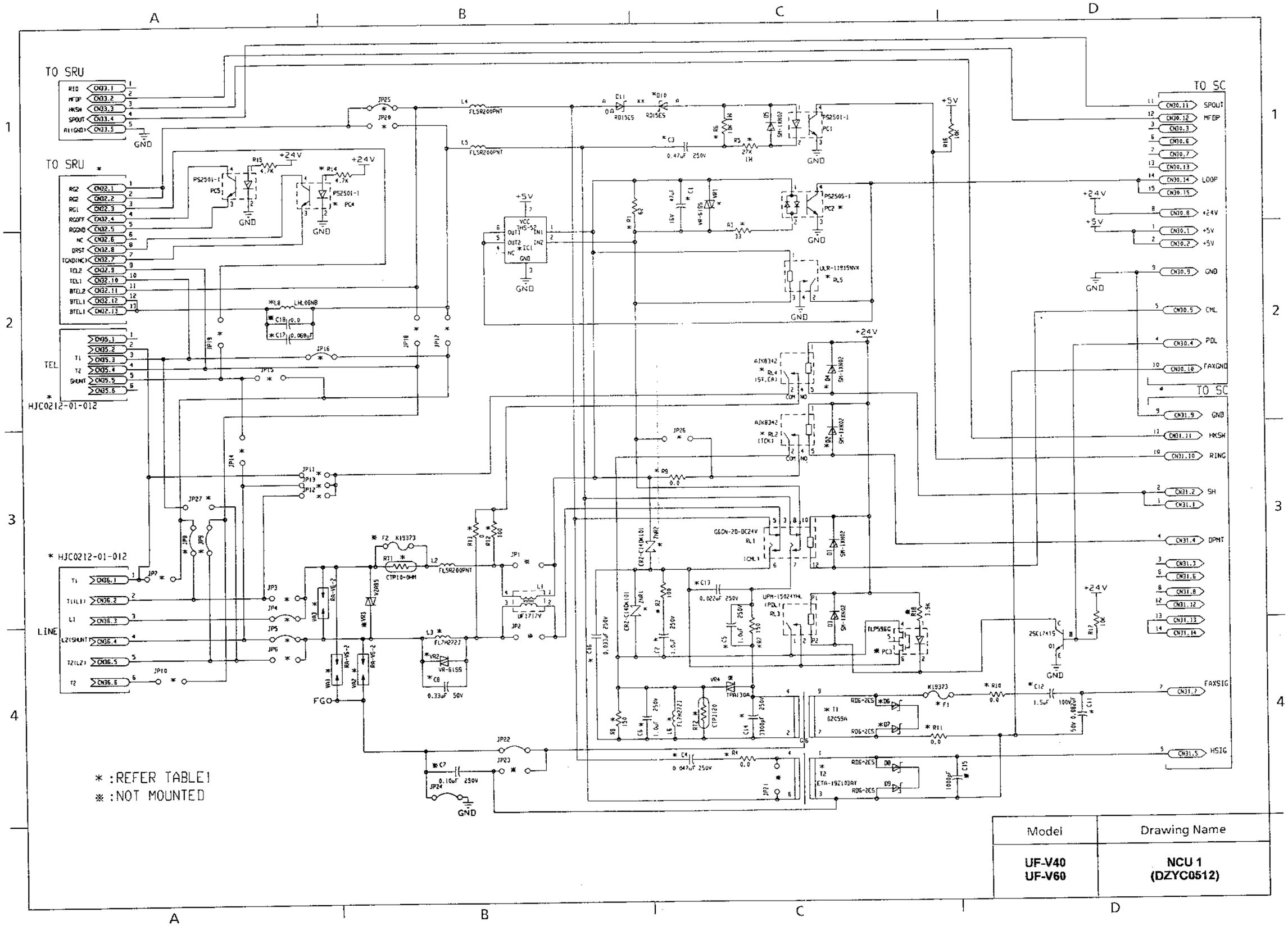

TO SRU
TO SRU *
* HJC0212-01-012
* HJC0212-01-012
LINE
TEL
FG
GND
+5V
+24V
TO SC
TO SC
* :REFER TABLE1
※ :NOT MOUNTED
Model
UF-V40
UF-V60
Drawing Name
NCU 1
(DZYC0512)

TABLE 1

No.	Ref.No.	DZYC0512A	DZYC0512B	DZYC0512D	DZYC0512E	DZYC0512F	DZYC0512G	DZYC0512H	DZYC0512I	DZYC0512J	DZYC0512K	DZYC0512L	DZYC0512M	DZYC0512N	DZYC0512P	DZYC0512Q	DZYC0512R	DZYC0512S	DZYC0512T	DZYC0512V	DZYC0512W	DZYC0512YW	DZYC0512YX
1	T1	62059A	63212	91276	62059A	62059A	91226	62059A	62059A	91276	63212	63212	62159	62159	62059A	62059A	62059A	62059A	62059A	62059A	63212	62059A	62059A
2	T2	ETA19Z103AY	ETA19Z109AY	ETA19Z109AY	ETA16Y56AY	ETA19Z103AY	ETA19Z103AY	ETA16Y56AY	ETA16Y56AY	ETA19Z109AY	ETA19Z103AY	ETA16Y56AY	ETA19Z109AY	ETA19Z109AY	ETA19Z103AY	ETA19Z103AY	ETA19Z109AY	ETA19Z103AY	ETA16Y56AY	ETA19Z103AY	ETA19Z103AY	ETA16Y56AY	ETA19Z109AY
3	R1	-----	-----	-----	-----	-----	-----	-----	-----	-----	62Ω,1/4W	68Ω,1/4W	-----	-----	-----	-----	68Ω,1/4W	-----	-----	270Ω,1/4W	62Ω,1/4W	-----	-----
4	R2	220Ω,1/4W	100Ω,1/4W	620Ω,1/4W	560Ω,1/4W	560Ω,1/4W	180Ω,1/4W	-----	100Ω,1/4W	560Ω,1/4W	100Ω,1/4W	30Ω,1/4W	100Ω,1/4W	560Ω,1/4W	560Ω,1/4W	560Ω,1/4W	560Ω,1/4W	560Ω,1/4W	620Ω,1/4W	560Ω,1/4W	620Ω,1/4W	100Ω,1/4W	560Ω,1/4W	560Ω,1/4W
5	R3	-----	-----	-----	-----	-----	-----	-----	-----	-----	33Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	33Ω,1/4W	33Ω,1/4W	-----	-----
6	R4	47KΩ,1/4W	0Ω,1/4W	56KΩ,1/4W	0Ω,1/4W	0Ω,1/4W	10KΩ,1/4W	56KΩ,1/4W	10KΩ,1/4W	56KΩ,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	47KΩ,1/4W	0Ω,1/4W	47KΩ,1/4W	0Ω,1/4W	10KΩ,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
7	R5	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	47KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	36KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	56KΩ,1W	10KΩ,1W	56KΩ,1W	56KΩ,1W
8	R6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9	R7	-----	-----	-----	-----	-----	150Ω,1W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10	R8	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	150Ω,1W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	1KΩ,2W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
11	R9	0Ω,1/4W	560Ω,1W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	22Ω,1W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	22Ω,1W	0Ω,1/4W	0Ω,1/4W
12	R10	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	10Ω,1W	68Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
13	R11	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	10Ω,1W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
14	R12	-----	100Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	100Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	100Ω,1/4W	-----	-----	-----
15	R13	0Ω,1/4W	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
16	R14	-----	4.7KΩ,1/4W	-----	-----	-----	-----	-----	4.2KΩ,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
17	C1	0.33uF,50V	0.33uF,50V	47uF,NP,16V	47uF,NP,16V	47uF,NP,16V	47uF,NP,16V	47uF,NP,16V	47uF,NP,16V	47uF,NP,16V	100uF,NP,16V	47uF,NP,16V	100uF,NP,16V	100uF,NP,16V	47uF,NP,16V	47uF,NP,16V	47uF,NP,16V	47uF,NP,16V	100uF,NP,16V	47uF,NP,16V	100uF,NP,16V	100uF,NP,16V	47uF,NP,16V	47uF,NP,16V
18	C2	1uF,250V	1.8uF,250V	0.47uF,250V	1uF,250V	1uF,250V	0.068uF,250V	-----	1.2uF,250V	1uF,250V	1.8uF,250V	0.68uF,250V	1uF,250V	1uF,250V	1uF,250V	1uF,250V	1uF,250V	1.8uF,250V	1uF,250V	1uF,250V	1.8uF,250V	1uF,250V	1uF,250V
19	C3	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.18uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	1.5uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	0.47uF,250V	1.2uF,250V	0.47uF,250V
20	C4	0.22uF,250V	0.22uF,250V	0.047uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.047uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.047uF,250V	0.22uF,250V	0.047uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V	0.22uF,250V
21	C5	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	1uF,250V	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
22	C6	-----	-----	-----	-----	-----	1uF,250V	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2.2uF,100V	-----	-----	-----	-----
23	C8	-----	SM-1XN-02	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	100uF,NP,16V	-----	-----	-----	-----	-----
24	C11	0.047uF,50V	0.082uF,50V	-----	0.047uF,50V	0.047uF,50V	0.082uF,50V	0.047uF,50V	0.047uF,50V	-----	0.082uF,50V	0.068uF,50V	0.082uF,50V	0.1uF,50V	0.047uF,50V	0.047uF,50V	0.047uF,50V	-----	0.047uF,50V	0.022uF,50V	0.082uF,50V	0.1uF,50V	0.047uF,50V
25	C12	0Ω,1/4W	1.5uF,100V	1uF,50V	2.2uF,100V	0Ω,1/4W	1.5uF,100V	0Ω,1/4W	0Ω,1/4W	1uF,50V	1.5uF,100V	1uF,50V	1.5uF,100V	1uF,50V	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	1.5uF,100V	0Ω,1/4W	0Ω,1/4W
26	C13	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.022uF,400V	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
27	C14	-----	-----	-----	-----	-----	0.039uF,400V	-----	-----	-----	-----	0.022uF,400V	3300pF,400V	-----	-----	-----	-----	0.039uF,400V	-----	-----	-----	0.082uF,400V	-----	-----
28	C16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.033uF,250V	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
29	C17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.068uF,50V	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
30	D2	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	-----	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	SM-1XN-02	-----	SM-1XN-02	SM-1XN-02	SM-1XN-02
31	D4	SM-1XN-02	SM-1XN-02	-----	-----	-----	SM-1XN-02	-----	-----	-----	SM-1XN-02	-----	SM-1XN-02	-----	-----	-----	-----	-----	-----	-----	SM-1XN-02	-----	-----
32	D6,7	RD6.2ES	RD6.2ES	-----	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES	RD6.2ES
33	D10	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	RD3.6ES	0Ω,1/4W	RD3.6ES	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	RD3.6ES	0Ω,1/4W	RD3.6ES	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
34	D11	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	RD3.6ES	0Ω,1/4W	RD3.6ES	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	RD3.6ES	0Ω,1/4W	RD3.6ES	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
35	RL2	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	-----	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	AJK8342	-----	AJK8342	AJK8342	AJK8342	AJK8342
36	RL4	AJK8342	AJK8342	-----	-----	-----	AJK8342	-----	-----	-----	AJK8342	-----	AJK8342	-----	-----	-----	-----	-----	-----	-----	AJK8342	-----	-----	-----
37	RL5	-----	-----	ULR-11915NVK	ULR-11915NVK	ULR-11915NVK	-----	ULR-11915NVK	ULR-11915NVK	ULR-11915NVK	-----	ULR-11915NVK	-----	-----	ULR-11915NVK	ULR-11915NVK	ULR-11915NVK	-----	ULR-11915NVK	ULR-11915NVK	-----	ULR-11915NVK	ULR-11915NVK
38	VA1	RA-501M-V6	DSA-302MA	RA-501M-V6	RA-501M-V6	-----	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	-----	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6
39	VA2	RA-501M-V6	-----	RA-501M-V6	RA-501M-V6	-----	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	-----	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6	RA-501M-V6
40	VA3	-----	RA-391M-V6	-----	-----	RA-391M-V6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	RA-391M-V6	-----
41	VR1	-----	-----	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH	VR615SH
42	VR2	-----	10KΩ,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	VR615SH	-----	-----	-----	-----	-----	-----
43	PC2	-----	-----	-----	-----	-----	-----	-----	-----	-----	PC814A	-----	-----	-----	-----	-----	-----	-----	-----	PC814A	PC814A	-----	-----	-----
44	PC4	-----	PC817B	-----	-----	-----	-----	-----	PC817B	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
45	L3	FL5R200PNT	SM-1XN-02	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	LHL08TB152J	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT	FL5R200PNT
46	L6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	LHL08TB272J	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
47	L8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	LHL08TB272J	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
48	CN32	DZBBF8708	DZBBF8721	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708	DZBBF8708
49	CN35	-----	TM5RJ3-64	-----	TM5RJ3-62	-----	-----	TM5RJ3-62	TM5RJ3-62	TM5RJ3-62	TM5RJ3-64	TM5RJ3-62	TM5RJ3-64	-----	TM5RJ3-62	TM5RJ3-62	-----	-----	TM5RJ3-62	-----	TM5RJ3-64	TM5RJ3-62	TM5RJ3-62	TM5RJ3-62
50	CN36	TM5RJ3-66	TM5RJ3-64	TM5RJ3-64	TM5RJ3-62	TM5RJ3-66	TM5RJ3-66	TM5RJ3-62	TM5RJ3-64	TM5RJ3-62	TM5RJ3-64	TM5RJ3-64	TM5RJ3-66	TM5RJ3-66	TM5RJ3-66	TM5RJ3-62	TM5RJ3-64	TM5RJ3-64	TM5RJ3-62	TM5RJ3-64	TM5RJ3-64	TM5RJ3-62	TM5RJ3-62	TM5RJ3-62

Object Nation	AUSTRIA	U.K.	DENMARK	TAIWAN	FINLAND	GERMANY	NETHER-LAND	ITALY	SPAIN	Hong Kong	AUSTRALIA	SWITZER-LAND	NORWAY	PORTUGAL	IRELAND	BELGIUM	SWEDEN	TURKEY	FRANCE	NEWZEALAND	SOUTH AFRICA	SINGAPORE

----- : NOT MOUNTED

Model	Drawing Name
UF-V40 UF-V60	**NCU 2 (DZYC0512)**

TABLE 1

No.	Ref.No.	DZYC0512A	DZYC0512B	DZYC0512D	DZYC0512E	DZYC0512F	DZYC0512G	DZYC0512H	DZYC0512I	DZYC0512J	DZYC0512K	DZYC0512L	DZYC0512M	DZYC0512N	DZYC0512P	DZYC0512Q	DZYC0512R	DZYC0512S	DZYC0512T	DZYC0512V	DZYC0512W	DZYC0512YW	DZYC0512YX
51	ZNR1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	ERZ-C14DK101	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
52	ZNR2	-----	-----	-----	-----	-----	-----	ERZ-C14DK101	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
53	RT1	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	K19373	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	CTP10-OHM	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
54	RT2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	CTPJ120	-----	-----	-----
55	F1	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	K19373	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
56	IC1	THS-52	THS-52	-----	-----	-----	THS-52	-----	-----	-----	-----	-----	THS-52	THS-52	-----	-----	-----	THS-52	-----	-----	-----	-----	-----
57	JP3,6	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----
58	JP4,5	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W
59	JP8,9	-----	-----	0Ω,1/4W	-----	-----	-----	-----	0Ω,1/4W	-----	-----	0Ω,1/4W	0Ω,1/4W	-----	-----	-----	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	-----	-----	-----
60	JP7,10	0Ω,1/4W	-----	-----	-----	0Ω,1/4W	0Ω,1/4W	-----	-----	-----	-----	-----	-----	0Ω,1/4W	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----
61	JP11	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
62	JP12	0Ω,1/4W	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----
63	JP13	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----
64	JP14	-----	VR61SSW	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
65	JP15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
66	JP16	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
67	JP17,18	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W
68	JP19,20	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0Ω,1/4W	
69	JP25	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	0Ω,1/4W	-----	0Ω,1/4W	0Ω,1/4W
70	JP26	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
71	JP27	-----	-----	-----	-----	-----	0Ω,1/4W	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
72																							
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Object Nation	AUSTRIA	U.K.	DENMARK	TAIWAN	FINLAND	GERMANY	NETHER-LAND	ITALY	SPAIN	Hong Kong	AUSTRALIA	SWITZER-LAND	NORWAY	PORTUGAL	IRELAND	BELGIUM	SWEDEN	TURKEY	FRANCE	NEWZEALAND	SOUTH AFRICA	SINGAPORE

------- : NOT MOUNTED

Model	Drawing Name
UF-V40 UF-V60	**NCU 3 (DZYC0512)**

9.3 NCU PC Board (DZYC0512) (1/7)

Country Code Table

Country Code	A	Austria	Country Code	I	Italy	Country Code	R	Belgium
	B	U.K.		J	Spain		S	Sweden
	D	Denmark		L	Australia		W	New Zealand
	E	Taiwan		M	Switzerland		YW	South Africa
	F	Finland		N	Norway		YX	Singapore
	G	Germany		P	Portugal			
	H	The Netherlands		Q	Ireland			

Ref. No.	Part No.	Description	A	B	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	W	YW	YX
C1	ECEA1CN101S	Electrolytic Capacitor, Al																1	1		
C1	ECEA1CN470S	Electrolytic Capacitor, Al			1	1	1	1	1	1	1	1	1		1	1	1			1	1
C1	ECQB1H334JF	Electrolytic Capacitor, Al	1											1							
C2	ECQE2105KF	Plastic Capacitor, Poly	1			1	1				1		1	1	1	1	1			1	1
C2	ECQE2125KF	Plastic Capacitor, Poly								1											
C2	ECQE2185KF	Plastic Capacitor, Poly		1														1	1		
C2	ECQE2474KF	Plastic Capacitor			1																
C2	ECQE2684KF	Plastic Capacitor, Poly										1									
C2	ECQE2683KF	Plastic Capacitor						1													
C3	ECQE2185KF	Plastic Capacitor																		1	
C3	ECQE2155KF	Plastic Capacitor														1					
C3	ECQE2184KF	Plastic Capacitor						1													
C3	ECQE2474KF	Plastic Capacitor, Poly	1	1	1	1	1		1	1	1	1	1	1	1		1	1	1		1
C4	ECQE2223KF	Plastic Capacitor	1	1		1	1	1		1	1	1	1		1		1	1	1	1	1
C4	ECQE2473KF	Plastic Capacitor			1				1					1		1					
C5	ECQE2105KF	Plastic Capacitor						1													
C5	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
C6	ECQE2105KF	Plastic Capacitor						1													
C8	ECEA1CN101S	Electrolytic Capacitor																1			

NCU PC Board (DZYC0512) (2/7)

Ref. No.	Part No.	Description	A	B	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	W	YW	YX
C11	ECQB1H104JF	Plastic Capacitor, Poly												1						1	
C11	ECQB1H473JF	Plastic Capacitor, Poly	1			1	1		1	1					1	1	1				1
C11	ECQB1H683JF	Plastic Capacitor, Poly										1									
C11	ECQB1H823JF	Plastic Capacitor, Poly		1				1					1						1		
C12	ERDS2T0T	Plastic Capacitor, Poly	1				1		1	1					1	1	1	1		1	1
C12	ECQE1155KF	Plastic Capacitor, Poly		1				1					1						1		
C12	ECQE1225KF	Plastic Capacitor, Poly				1															
C12	ECQV1H105JZ	Plastic Capacitor, Poly			1						1	1		1							
C13	ECQE4223KF	Plastic Capacitor											1								
C14	ECQEM4332KZ	Plastic Capacitor, Poly											1								
C14	ECQE4223KF	Plastic Capacitor, Poly										1									
C14	ECQE4393KF	Plastic Capacitor, Poly						1										1			
C14	ECQE4823KF	Plastic Capacitor, Poly																		1	
C16	ECQE2333KF	Plastic Capacitor											1								
C17	ECQB1H683JF	Plastic Capacitor											1								
CN30	CSP1515-0301	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN31	CSP1514-0301	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN32	DZBBF8708	Connector Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN33	DZBBF8706	Connector Assy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN35	TM5RJ3-62 HJC026810212	Modular Jack				1			1	1	1	1			1	1				1	1
CN35	TM5RJ3-64 HJC026810112	Modular Jack		1									1						1		
CN36	TM5RJ3-62 HJC026810212	Modular Jack				1			1		1					1				1	1
CN36	TM5RJ3-64 HJC026810112	Modular Jack		1	1					1		1					1	1	1		
CN36	TM5RJ3-66 HJC026810012	Modular Jack	1				1	1					1	1	1						

NCU PC Board (DZYC0512) (3/7)

Ref. No.	Part No.	Description	A	B	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	W	YW	YX
D1	SM-1XN-02 1SR139-200	Diode,1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D2	SM-1XN-02 1SR139-200	Diode,1A	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
D3	SM-1XN-02 1SR139-200	Diode,1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D4	SM-1XN-02 1SR139-200	Diode,1A	1	1				1					1						1		
D5	SM-1XN-02 1SR139-200	Diode,1A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D6 ~ D9	RD6-2ES	Zener Diode	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D10	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1		1		1	1		1		1	1	1	1	1
D10	RD3-6ES MTZJ3-6B	Zener Diode							1		1			1		1					
D11	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1		1		1	1		1		1	1	1	1	1
D11	RD3-6ES	Zener Diode							1		1			1		1					
D11	MTZJ3-6B	Zener Diode							1		1			1		1					
F1	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
F1	K19373	Fuse, 100mA										1									
FG	TW-4BS-2K	Earth Lag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HIC	THS-52	IC,Hybrid (Carrent Detect)	1					1					1	1				1			
JP3	ERDS2T0T	Carbon Film Resistor,1/4W		1															1		
JP4	ERDS2T0T	Carbon Film Resistor,1/4W	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1
JP5	ERDS2T0T	Carbon Film Resistor,1/4W	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1
JP6	ERDS2T0T	Carbon Film Resistor,1/4W ,		1															1		
JP7	ERDS2T0T	Carbon Film Resistor,1/4W	1				1	1						1	1						
JP8	ERDS2T0T	Carbon Film Resistor,1/4W			1					1		1	1				1	1			
JP9	ERDS2T0T	Carbon Film Resistor,1/4W			1					1		1	1				1	1			
JP10	ERDS2T0T	Carbon Film Resistor,1/4W	1				1	1						1	1						

NCU PC Board (DZYC0512) (4/7)

Ref. No.	Part No.	Description	A	B	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	W	YW	YX
JP11	ERDS2T0T	Carbon Film Resistor,1/4W											1								
JP12	ERDS2T0T	Carbon Film Resistor,1/4W	1					1													
JP13	ERDS2T0T	Carbon Film Resistor,1/4W		1															1		
JP14	ERDS2T0T	Carbon Film Resistor,1/4W		1															1		
JP15	ERDS2T0T	Carbon Film Resistor,1/4W											1								
JP16	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
JP17	ERDS2T0T	Carbon Film Resistor,1/4W		1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1
JP18	ERDS2T0T	Carbon Film Resistor,1/4W		1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1
JP19	ERDS2T0T	Carbon Film Resistor,1/4W		1															1		
JP20	ERDS2T0T	Carbon Film Resistor,1/4W		1															1		
JP22	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP24	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP25	ERDS2T0T	Carbon Film Resistor,1/4W	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1
JP26	ERDS2T0T	Carbon Film Resistor,1/4W						1													
JP27	ERDS2T0T	Carbon Film Resistor,1/4W						1													
L1	SU9V-03050 UF1717V282Y	Choke Coil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L2	FL5R200PNT	Inductors	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L3	FL5R200PNT	Inductors	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1
L3	LHL08TB152J	Inductors																1			
L4, L5	FL5R200PNT	Inductors	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L6	LHL08TB272J	Inductors											1								
L8	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
L8	LHL08TB272J	Inductors											1								
PC1	PS2501-1 PC817B	Photo Coupler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PC2	PS2505-1 PC814A	Photo Coupler		1															1		

NCU PC Board (DZYC0512) (5/7)

Ref. No.	Part No.	Description	A	B	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	W	YW	YX
PC4	PS2501-1 PC817B	Photo Coupler		1						1											
PC5	PS2501-1 PC817B	Photo Coupler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1	2SC1741S	Transistor,SI,0.3W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1	ERDS2TJ510	Carbon Film Resistor,1/4W		1																	
R1	ERDS2TJ620T	Carbon Film Resistor,1/4W																	1		
R1	ERDS2TJ680T	Carbon Film Resistor,1/4W										1				1					
R2	ERDS2TJ101	Carbon Film Resistor,1/4W		1						1			1						1		
R2	ERDS2TJ181	Carbon Film Resistor,1/4W						1													
R2	ERDS2TJ221	Carbon Film Resistor,1/4W	1																		
R2	ERDS2TJ300	Carbon Film Resistor,1/4W										1									
R2	ERDS2TJ561	Carbon Film Resistor,1/4W				1	1				1			1	1	1	1			1	1
R2	ERDS2TJ621	Carbon Film Resistor,1/4W			1													1			
R3	ERDS2TJ330	Carbon Film Resistor,1/4W		1															1		
R4	ERDS2TJ103	Carbon Film Resistor,1/4W								1								1			
R4	ERDS2T0T	Carbon Film Resistor,1/4W		1		1	1					1	1		1		1		1	1	1
R4	ERDS2TJ473	Carbon Film Resistor,1/4W	1											1		1					
R4	ERDS2TJ563	Metal Film Oxide Resistor,1W			1				1		1										
R5	ERG1SJ473P	Metal Film Oxide Resistor,1W						1													
R5	ERG1SJ563P	Metal Film Oxide Resistor,1W	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
R6	ERG1SJ103P	Metal Film Oxide Resistor,1W																		1	
R7	ERG1SJ151P	Metal Film Oxide Resistor,1W						1													
R8	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1
R8	ERG1SJ151P	Metal Film Oxide Resistor,1W						1													
R9	ERG1SJ270P	Metal Film Oxide Resistor,1W		1															1		
R9	ERDS2T0T	Resistor,1/4W	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1
R10	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1

NCU PC Board (DZYC0512) (6/7)

Ref. No.	Part No.	Description	A	B	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	W	YW	YX
R10	ERG1SJ100P	Carbon Film Resistor,1/4W										1									
R10	ERDS2TJ680T	Carbon Film Resistor,1/4W											1								
R11	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
R11	ERG1SJ100P	Carbon Film Resistor,1/4W										1									
R12	ERDS2TJ101	Carbon Film Resistor,1/4W		1															1		
R13	ERDS2T0T	Carbon Film Resistor,1/4W	1					1					1								
R14	ERDS2TJ472	Carbon Film Resistor,1/4W		1						1											
R15	ERDS2TJ472	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R16	ERDS2TJ103	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R17	ERDS2TJ103	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RL1	G6GN-2D-DC24	Relay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RL2	AJK8342 G5B1HDC24V	Relay	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
RL3	UPM-15024YHL	Relay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RL4	AJK8342 G5B1HDC24V	Relay	1	1				1					1						1		
RL5	ULR11915NVK	Relay			1	1	1		1	1	1	1			1	1	1			1	1
RT1	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
T1	62059A	Line Transformer,4.0VA	1			1	1		1	1					1	1	1	1		1	1
T1	61259	Line Transformer,4.0VA											1	1							
T1	63212	Line Transformer,4.0VA		1								1							1		
T1	91226	Line Transformer,4.0VA						1													
T1	91276	Line Transformer,4.0VA			1						1										
T2	ETA-19Z103AY	Line Transformer,4.0VA	1				1	1					1		1		1	1	1		
T2	ETA-19Z109AY	Line Transformer,4.0VA		1	1				1		1			1		1					1
T2	ETA16Y56AY	Line Transformer,4.0VA				1				1		1								1	
VA1	DSA302M5F25	Surge Abosorber		1																	
VA1	RA501MV6Y2	Arrester	1		1	1		1	1	1	1	1		1	1	1	1	1	1	1	1
VA2	RA501MV6Y2	Arrester	1		1	1		1	1	1	1	1		1	1	1	1	1	1	1	1
VA3	RA391MV6Y2	Arrester		1			1													1	

TABLE 1

No.	Ref.No.	DZYC0558K	DZYC0558T
1	R10,18	51Ω,1/4W	----
2	R15	100Ω,1/4W	----
3	D2,9	SM-1XN-02	----
4	RL2,4	G6E-134PL0C24V	----
5	CN35,36	TM5RJ3-64	TM5RJ3-62
6	J1	0Ω,1/4W	----
7	J6	0Ω,1/4W	----
8	J12	0Ω,1/4W	----
9	J13	----	0Ω,1/4W
10	J15A	----	0Ω,1/4W
11	J16A	----	0Ω,1/4W
12	J15B	0Ω,1/4W	----
13	J16B	0Ω,1/4W	----
14	JP20,23	0Ω,1/4W	----
15			
16			
17			
18			
19			
20			
21			
22			
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34			
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39			
40			

Object Nation	HONGKONG	TURKEY

------- : NOT MOUNTED

Model	Drawing Name
UF-V40 UF-V60	**NCU 2 (DZYC0558)**

9.3 NCU PC Board (DZYC0558) (1/2)

Country Code Table

Country Code	K	Hong Kong
	T	Turkey

Ref. No.	Part No.	Description	K	T
C1	ECEA1CN1015	Electrolytic Capacitor	1	1
C2	ECQE2185KF	Plastic Capacitor	1	1
C3	ECQE2474KF	Plastic Capacitor	1	1
C4	ECQE2223KF	Plastic Capacitor	1	1
C5	ECQB1H823JF	Plastic Capacitor	1	1
C6	ECQE1155KF	Plastic Capacitor	1	1
C11	ECQE4223KF	Plastic Capacitor	1	1
C14	ERDS2T0T	Carbon Film Resistor,1/4W	1	1
CN35 ~ CN36	TM5RJ3-62 HJC026801021	Modular Jack		1
CNJ30	CSP1515-0301	Connector	1	1
CNJ31	CSP1514-0301	Connector	1	1
CNJ32	DZBBF8708	Connector Assy	1	1
CNJ33	DZBBF8706	Connector Assy	1	1
CNJ35 ~ CNJ36	TM5RJ3-64 HJC026801011	Modular Jack	1	
D1	SM1XN02 1SR139-200	Diode	1	1
D2	SM1XN02 1SR139-200	Diode	1	
D3	SM1XN02 1SR139-200	Diode	1	1
D4	SM1XN02 1SR139-200	Diode	1	1
D5 ~ D8	RD6-2ES MTZJ6-2B	Zener Diode	1	1
D9	SM1XN02 1SR139-200	Diode	1	
D10	ERDS2T0T	Resistor	1	1
F1	ERDS2T0T	Resistor, 1/4W	1	1
FG	TW-4BS-2K	Earth Lag	1	1
J1	ERDS2T0T	Resistor, 1/4W	1	
J2 ~ J5	ERDS2T0T	Resistor, 1/4W	1	1
J6	ERDS2T0T	Resistor, 1/4W	1	
J7 ~ J10	ERDS2T0T	Resistor, 1/4W	1	1
J12	ERDS2T0T	Resistor, 1/4W	1	
J13	ERDS2T0T	Resistor, 1/4W		1
J14	ERDS2T0T	Resistor, 1/4W	1	1
J15 ~J23	ERDS2T0T	Resistor, 1/4W	1	1
JP9, JP10	ERDS2T0T	Resistor, 1/4W	1	1

NCU PC Board (DZYC0558) (2/2)

Ref. No.	Part No.	Description	K	T
JP13	FL5R200PNT	Choke Coil	1	1
JP14	FL5R200PNT	Choke Coil	1	1
JP15A	ERDS2T0T	Resostor, 1/4W		1
JP15B	ERDS2T0T	Resostor, 1/4W	1	
JP16A	ERDS2T0T	Resostor, 1/4W		1
JP16B	ERDS2T0T	Resostor, 1/4W	1	
JP20	ERDS2T0T	Resostor, 1/4W	1	
JP21	FL5R200PNT	Choke Coil	1	1
JP22	FL5R200PNT	Choke Coil	1	1
JP23	ERDS2T0T	Resostor, 1/4W	1	
JP26 ~ JP28	ERDS2T0T	Resostor, 1/4W	1	1
L1	UF1717V	Choke Coil	1	1
PC1	PS2501-1W PC817B	Photo Coupler	1	1
PC2	PS2505-1R PC814A	Photo Coupler	1	1
PC6	PS2501-1W PC817B	Photo Coupler	1	1
Q1	2SC1741S	Transistor	1	1
R1	ERDS2TJ510	Resistor,1/4W	1	1
R2	ERDS2TJ101	Resistor,1/4W	1	1
R3	ERDS2TJ330	Resistor,1/4W	1	1
R4	ERDS2TJ103	Resistor,1/4W	1	1
R5	ERDS2TJ563	Resistor,1/4W	1	1
R8	ERDS2T0T	Resistor,1/4W	1	1
R10	ERDS2TJ510	Carbon Film Resistor,1/4W	1	
R11	ERDS2TJ103	Carbon Film Resistor,1/4W	1	1
R15	ERDS2TJ101	Carbon Film Resistor,1/4W	1	
R18	ERDS2TJ510	Carbon Film Resistor,1/4W	1	
R19 ~ R22	ERDS2TJ470	Carbon Film Resistor,1/4W	1	1
R23	ERDS2TJ472	Carbon Film Resistor,1/4W	1	1
RL1	MR612-24US2R	Relay	1	1
RL2	G6E134PLDC24	Relay	1	
RL3	G6E134PLDC24	Relay	1	1
RL4	G6E134PLDC24	Relay	1	
T1	ETA24Y57AY	Line Transformer	1	1
T2	ETA16Y56AY	Line Transformer	1	1
VA1, VA2	RA501MV6Y2	Arrester	1	1

TO LCD MATRIX

TO LCD MATRIX

SEG[120:0]

COM[15:0]

SWC[8:0]

SWS[8:0]

CN52

CN54

TO TEN KEY MATRIX

LED MATRIX

POWER

OUT

ON LINE

TELEPHONE

ALARM

MEMORY

CN57

CN51

CN50

PNRST
SCK
SI
SO
+5VA
+5V
GND
AGND
TL(MIC)

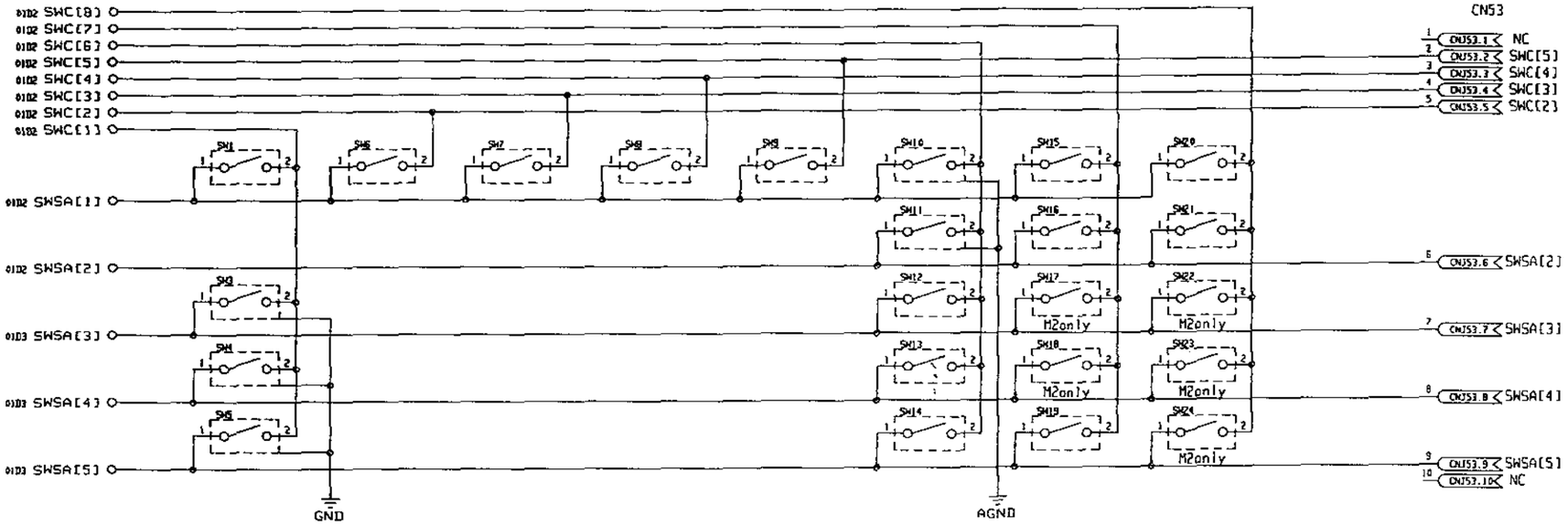
MG
MG

AGND
MIC-
MIC+

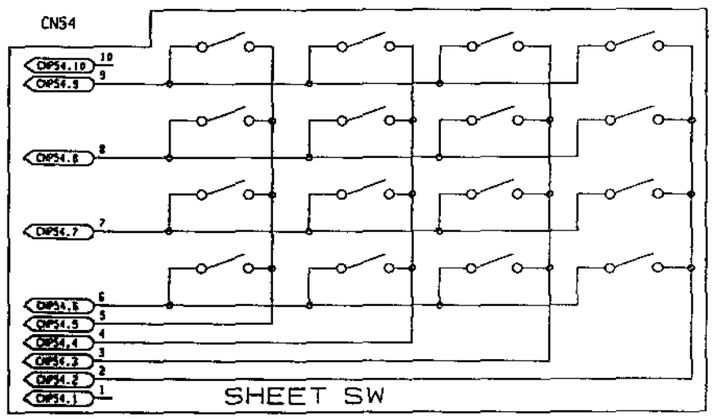
* Not mounted

	DZYC0543_A	DZYC0543_B
C2	GRM426B104K25PT	GRM426B224K16PT
R3	ERJ6GQYJ472V	ERJ6GQYJ182V
R10	ERJ6GQYJ473V	ERJ6GQYJ104V
C1	GRM40B102K50PT	GRM40B471K50PT

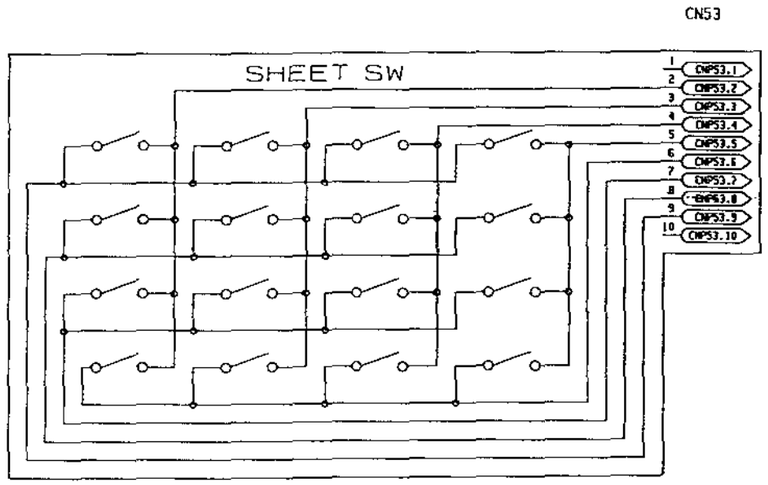
Model	Drawing Name
UF-V40 UF-V60	PNL 1 (DZYC0543)



ONE-TOUCH 5	ONE-TOUCH 4	ONE-TOUCH 3	ONE-TOUCH 2	ONE-TOUCH 1	ABBR /SEARCH	VOLUME+ ^	VOLUME- v
					IN/OUT	ORIGINAL >	RESOLUTION <
START					FUNCTION	PLAY ▷ SKIP ▷▷|	|◁◁ SKIP
COPY					SET	MEMO/ 2WAY REC	ERASE
STOP					CLEAR	HELP	MEMORY



1	2	3	REDIAL /PAUSE
4	5	6	FLASH
7	8	9	HOLD
TONE *	0	#	SP-PHONE /MONITOR



Model	Drawing Name
UF-V40 UF-V60	**PNL 2 (DZYC0543)**

9.4 PNL PC Board (DZYC0543) (1/2)

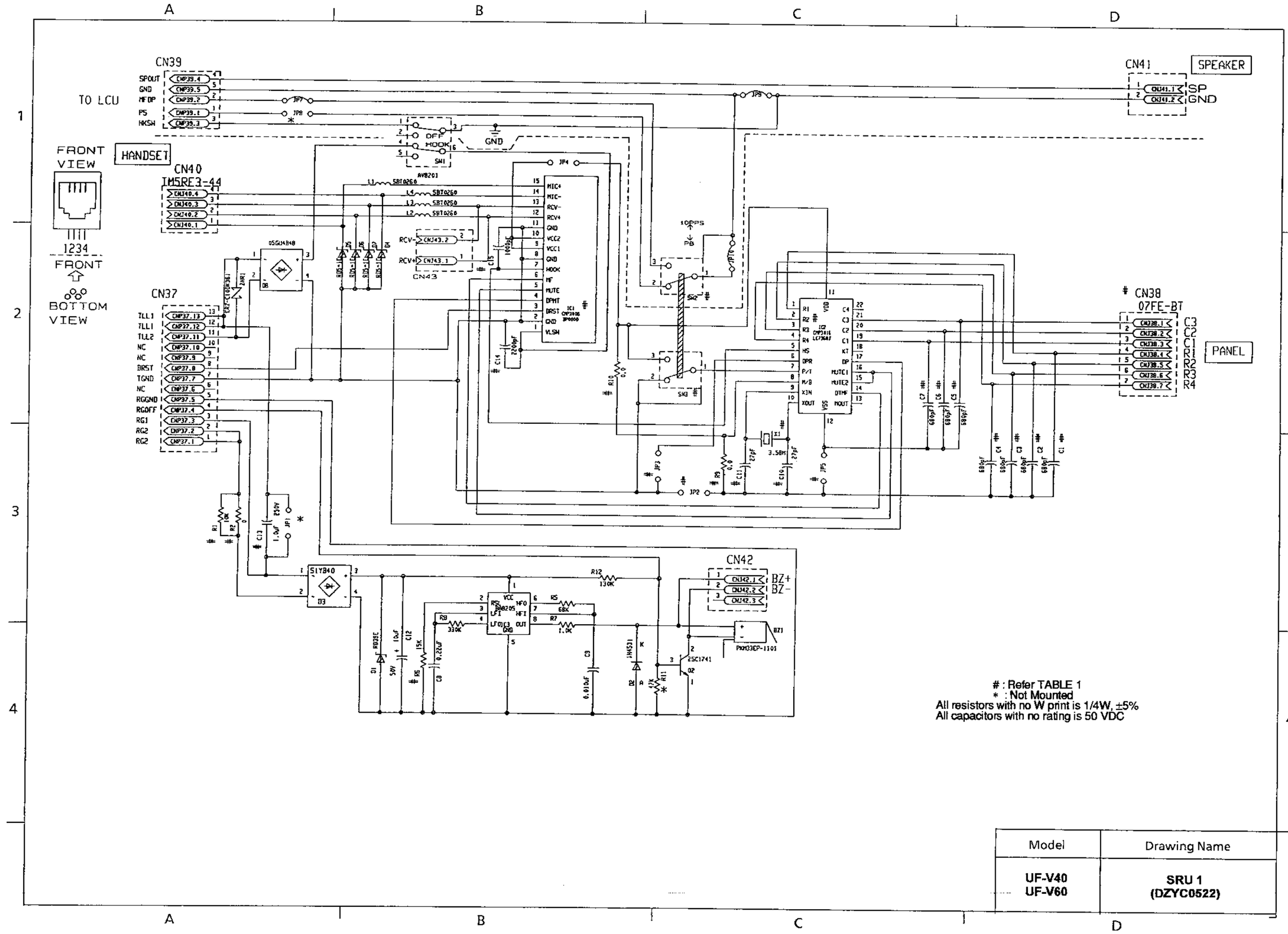
Country Code Table

Country Code			Country Code		
	AA	Other Countries (UF-V40)		BA	U.K., Taiwan, China (UF-V40)
	AB	Other Countries (UF-V60)		BB	U.K., Taiwan, China (UF-V60)

Ref. No.	Part No.	Description	AA	AB	BA	BB
C1	GRM4B102K1HT	Ceramic Chip Capacitor, S-Layer	1		1	
	GRM40B471K50	Ceramic Chip Capacitor, S-Layer		1		1
C2	GRM5B104K1ET	Ceramic Chip Capacitor, S-Layer	1		1	
C2	GRM5B224K1ET	Ceramic Chip Capacitor, S-Layer		1		1
C3	GRM5B105K1CT	Ceramic Chip Capacitor, S-Layer	1	1	1	1
C4	ECEA1CKS101I	Electrolytic Capacitor, Al	1	1	1	1
C5	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1
C6 ~ C10	GRM4B104K1EY	Ceramic Chip Capacitor, S-Layer	1	1	1	1
C13	ECEA1CKS101I	Electrolytic Capacitor, Al	1	1	1	1
C15, C16	GRM4B102K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1
C18	ECEA1CKS330I	Electrolytic Capacitor, Al	1	1	1	1
C19	GRM4F223Z1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1
C20	GRM5B105K1CT	Ceramic Chip Capacitor, S-Layer	1	1	1	1
C21 ~ C28	GRM4B102K1HT	Ceramic Chip Capacitor, S-Layer	1	1	1	1
C29	GRM4B104K1EY	Ceramic Chip Capacitor, S-Layer	1	1	1	1
CN50	S3B-PH-K-S	Connector	1	1	1	1
CN51	0543CN51	Connector	1	1	1	1
CN52	0543CN52	Connector			1	1
CN53	DZZSP08035	Membrane SW, Sheet	1	1	1	1
CN54	DZZSP08035	Membrane SW, Sheet			1	1
CN55	DZZSP09236	Zebra Connector	1	1	1	1
CN56	DZZSP09236	Zebra Connector	1	1	1	1
CN57	S2B-PH-K-S	Connector	1	1	1	1
D1 ~ D5	MA151A	Diode,100MA	1	1	1	1
	DAP202K					
IC1	T6A34	IC,CMOS Standard Logic	1	1	1	1
IC2	UPC4558G2	IC,Liner OPAMP	1	1	1	1
LED1	LT1E21A	LED(Green)	1	1	1	1
LED2	LT1D21A	LED (Red)	1	1	1	1
LED3	LT1S21A	LED (Amber)	1	1	1	1
LED4	LT1E21A	LED(Green)	1	1	1	1
LED5	LT1E21A	LED(Green)		1		1
LED6	LT1S21A	LED (Amber)	1	1	1	1
Q1, Q2	2SJ166	FET	1	1	1	1
	2SJ343					
Q3 ~ Q5	2SK1133	FET,SI	1	1	1	1
	2SK1826					
R1	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1
R2	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1

PNL PC Board (DZYC0543) (2/2)

Ref. No.	Part No.	Description	AA	AB	BA	BB
R3	ERJ6GQYJ182V	Metal Glaze Chip Resistor		1		1
	ERJ6GQYJ472V	Metal Glaze Chip Resistor	1		1	
R4 ~ R9	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1
R10	ERJ6GQYJ104V	Metal Glaze Chip Resistor		1		1
R10	ERJ6GQYJ473V	Metal Glaze Chip Resistor	1		1	
R11	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1
R13	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1
R15	ERJ6GQYJ221V	Metal Glaze Chip Resistor	1	1	1	1
R17	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R18	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R19	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R21, R22	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R23	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1
R24	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R25	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1
R26	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R27	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R28	ERJ6GQYJ181V	Metal Glaze Chip Resistor	1	1	1	1
R29 ~ R36	ERJ6GQYJ332V	Metal Glaze Chip Resistor	1	1	1	1
R37, R38	ERJ6GQYJ101V	Metal Glaze Chip Resistor	1	1	1	1
R39	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1
R40	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1
R41	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1
R42, R43	ERJ6GQYJ562V	Metal Glaze Chip Resistor	1	1	1	1
R45	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1
R46	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1
R48	ERJ6GQY0R00V	Metal Glaze Chip Resistor	1	1	1	1
R49, R50	ERJ6GQYJ102V	Metal Glaze Chip Resistor	1	1	1	1
SW1	SKHVBB	Switch	1	1	1	1
SW3 ~ SW21	SKHVBB	Switch	1	1	1	1
SW22 ~ SW24	SKHVBB	Switch		1		1
ZD2	RD5-1ES	Zener Diode	1	1	1	1
	MTZJ5-1B					



: Refer TABLE 1
* : Not Mounted
All resistors with no W print is 1/4W, ±5%
All capacitors with no rating is 50 VDC

Model	Drawing Name
UF-V40 UF-V60	SRU 1 (DZYC0522)

TABLE 1

No.	Ref.No.	DZYC0522E	DZYC0522U	DZYC0522D	DZYC0522F	DZYC0522H	DZYC0522X	DZYC0522J	DZYC0522L	DZYC0522M	DZYC0522N	DZYC0522O	DZYC0522R	DZYC0522YW	DZYC0522YX	DZYC0522K	DZYC0522W
1	IC1	DZZSP01207	DZZSP01156	DZZSP01159	DZZSP01160	DZZSP01162	DZZSP01163	DZZSP01164	DZZSP01166	DZZSP01167	DZZSP01168	DZZSP01169	DZZSP01170	DZZSP01173	DZZSP01174	DZZSP01165	DZZSP01172
2	IC2	------	------	------	------	------	LC7363J	------	------	------	------	------	------	------	------	------	------
3	R1	10KΩ 1/4W	------	○	○	○	○	30KΩ 1/4W	15KΩ 1/4W	15KΩ 1/4W	○	○	15KΩ 1/4W	15KΩ 1/4W	15KΩ 1/4W	20KΩ 1/4W	15KΩ 1/4W
4	R2	10KΩ 1/4W	0Ω 1/4W	○	○	○	○	30KΩ 1/4W	15KΩ 1/4W	15KΩ 1/4W	○	○	15KΩ 1/4W	15KΩ 1/4W	15KΩ 1/4W	20KΩ 1/4W	15KΩ 1/4W
5	R6	11KΩ 1/4W	15KΩ 1/4W	○	○	○	○	27KΩ 1/4W	16KΩ 1/4W	○	○	○	○	○	○	16KΩ 1/4W	16KΩ 1/4W
6	R10	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
7	C10,11	------	------	------	------	------	27pF/50V	------	------	------	------	------	------	------	------	------	------
8	C13	1.0uF/250V	------	○	○	0.68uF/250V	○	○	○	○	○	○	○	○	○	------	○
9	C14	2200pF/500V	○	○	○	○	○	○	0.01uF/250V	○	○	○	○	0.082uF/250V	○	○	○
10	X1	------	------	------	------	------	CSA3.58MG	------	------	------	------	------	------	------	------	------	------
11	SW2	SSSF112-L9	○	○	○	○	SSSF112-L6	○	○	○	○	○	○	○	○	○	○
12	SW3	------	------	------	------	------	SSSF112-L6	------	------	------	------	------	------	------	------	------	------
13	JP2,3	------	------	------	------	------	0Ω 1/4W	------	------	------	------	------	------	------	------	------	------
14	JP4,5	------	------	------	------	------	0Ω 1/4W	------	------	------	------	------	------	------	------	------	------
15	CN38	------	------	------	------	------	07FE-BT	------	------	------	------	------	------	------	------	------	------
16	C1,2,3,4	------	------	------	------	------	680pF/50V	------	------	------	------	------	------	------	------	------	------
17	C15	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
18	R9	------	------	------	------	------	0Ω 1/4W	------	------	------	------	------	------	------	------	------	------
19	C5,6,7	------	------	------	------	------	680pF/50V	------	------	------	------	------	------	------	------	------	------
20																	
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Object Nation	TAIWAN	USA	DENMARK	FINLAND	NEWZEALAND	ITALY	SPAIN	AUSTRALIA	SWITZERLAND	NORWAY	IRELAND	BELGIUM	SOUTH AFRICA	SINGAPORE	HONGKONG	NEWZEALAND

------ : NOT MOUNTED

○ : SAME AS DZYC0522E TYPE

Model	Drawing Name
UF-V40 UF-V60	**SRU 2 (DZYC0522)**

TABLE 1

No.	Ref.No.	DZYC0522YV	DZYC0522YC
1	IC1	DZZSP01155	DZZSP01174
2	IC2	LC7363J	-----
3	R1	-----	-----
4	R2	0Ω 1/4W	0Ω 1/4W
5	R6	15kΩ 1/4W	15KΩ 1/4W
6	R10	0Ω 1/4W	-----
7	C10,11	27pF/50V	-----
8	C13	-----	-----
9	C14	○	○
10	X1	CSA3.58MG	-----
11	SW2	SSSF112-L6	○
12	SW3	SSSF112-L6	-----
13	JP2,3	0Ω 1/4W	-----
14	JP4,5	0Ω 1/4W	-----
15	CN38	07FE-BT	-----
16	C1,2,3,4	680pF/50V	-----
17	C15	1000pF/50V	-----
18	R9	-----	-----
19	C5,6,7	680pF/50V	-----
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Object Nation	CHINA	UNIVERSAL-2 (200V)

------ : NOT MOUNTED

○ : SAME AS DZYC0522E TYPE

Model	Drawing Name
UF-V40 UF-V60	**SRU 3 (DZYC0522)**

9.5 SRU PC Board (DZYC0522) (1/3)

Country Code Table

Country Code	U	U.S.A.	Country Code	L	Australia	Country Code	YX	Singapore
	E	Taiwan		M	Switzerland		K	Hong Kong
	F	Finland		N	Norway		W	New Zealand
	H	The Netherlands		Q	Ireland		YV	China
	X	Italy		R	Belgium			
	J	Spain		YW	South Africa			

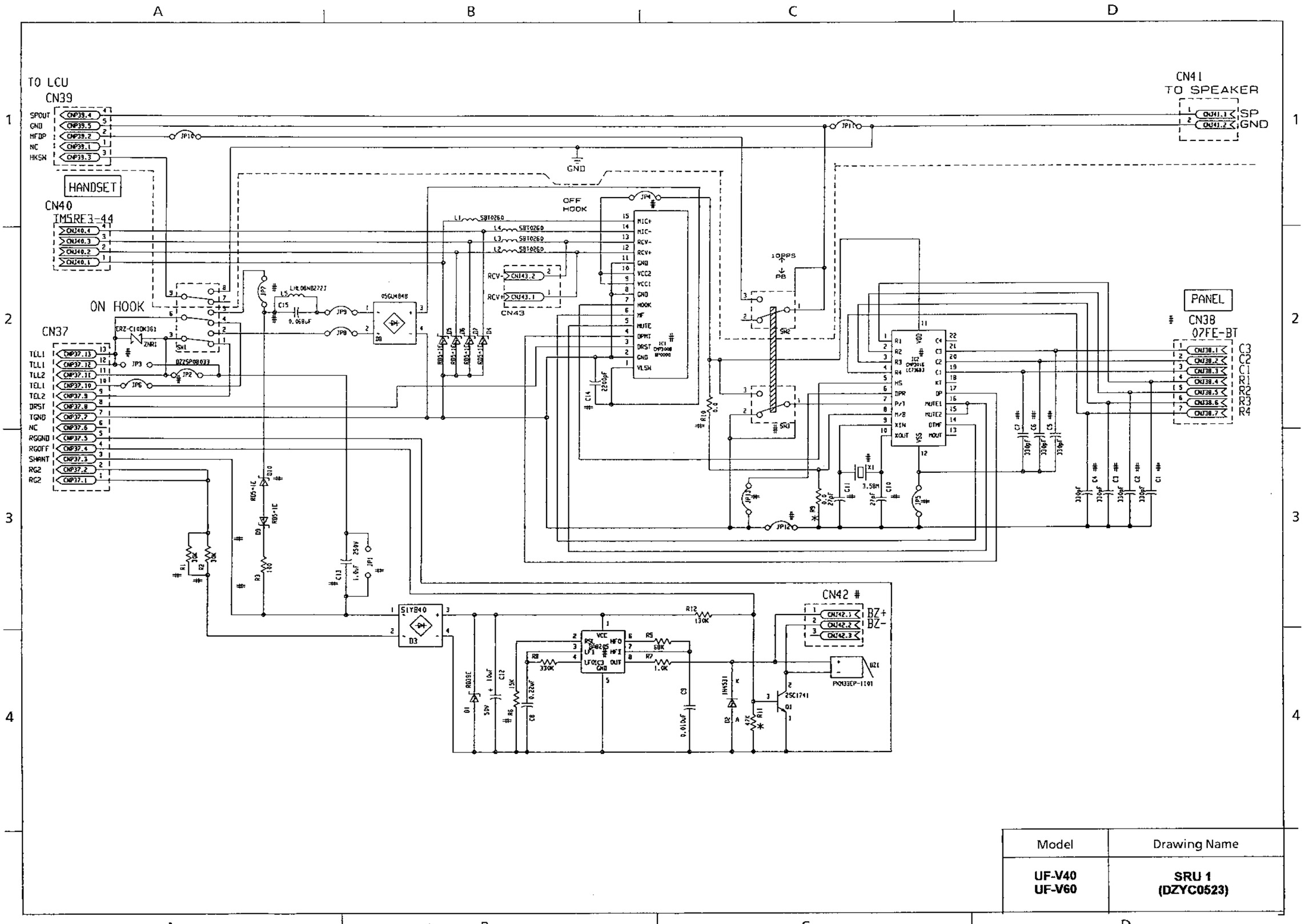
Ref. No.	Part No.	Description	U	E	F	H	X	J	L	M	N	Q	R	YW	YX	K	W	YV
BZ1	PKM33EP-1101	Ringer, Ceramic	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1 ~ C7	ECBT1H681KB5	Ceramic Capacitor, S Layer					1											1
C8	ECQB1H224KF3	Plastic Capacitor, Poly	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C9	ECQB1H103KF	Plastic Capacitor, Poly	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C10	ECBT1H270J5	Ceramic Capacitor, S Layer					1											1
C11	ECBT1H270J5	Ceramic Capacitor, S Layer					1											1
C12	ECEA1HKA100B	Electrolitic Capacitor, Al	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C13	ECQE2105KF	Plastic Capacitor, Poly		1	1		1	1	1	1	1	1	1	1	1		1	
C13	ECQE2684KF3	Plastic Capacitor, Poly				1												
C14	ECKR2H222KB5	Ceramic Disk Capa, S Layer	1	1	1	1	1	1		1	1	1	1		1	1	1	1
C14	ECQE2103KF3	Plastic Capacitor							1									
C14	ECQE2823KF	Plastic Capacitor												1				
C15	ECBT1H102KB5	Ceramic Disk Capa, S Layer																1
CN37	B13B-PH-K-S	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN38	07FE-BT	Connector					1											1
CN39	B5B-PH-K-S	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN40	TM5RE3-44 CSB290A44-31	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN41	B2B-PH-K-S	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

SRU PC Board (DZYC0522) (2/3)

Ref. No.	Part No.	Description	U	E	F	H	X	J	L	M	N	Q	R	YW	YX	K	W	YV
CN43	B2B-PH-K-M	Connector	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1	RD39ES-T1	Zener Diode	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D2	1N4531	Diode,SI,200MA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D3	S1YB40	Diode Bridge	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D4 ~ D7	RD5-1ES	Zener Diode	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D8	05GU4B48	Diode,0.5A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1	DZZSP01155	Hybrid IC																1
IC1	DZZSP01156	Hybrid IC	1															
IC1	DZZSP01159	Hybrid IC																
IC1	DZZSP01160	Hybrid IC			1													
IC1	DZZSP01162	Hybrid IC				1												
IC1	DZZSP01163	Hybrid IC					1											
IC1	DZZSP01164	Hybrid IC						1										
IC1	DZZSP01165	Hybrid IC														1		
IC1	DZZSP01166	Hybrid IC							1									
IC1	DZZSP01167	Hybrid IC								1								
IC1	DZZSP01168	Hybrid IC									1							
IC1	DZZSP01169	Hybrid IC										1						
IC1	DZZSP01170	Hybrid IC											1					
IC1	DZZSP01172	Hybrid IC															1	
IC1	DZZSP01173	Hybrid IC												1				
IC1	DZZSP01174	Hybrid IC													1			
IC1	DZZSP01207	Hybrid IC		1														
IC2	LC7363J	IC, MOS Logic (Other), Dial					1											1
IC3	BA6205	IC,Liner Ringer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP2 ~ JP5	ERDS2T0T	Carbon Film Resistor,1/4W					1											1
JP7	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP9	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP10	ERDS2T0T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

SRU PC Board (DZYC0522) (3/3)

Ref. No.	Part No.	Description	U	E	F	H	X	J	L	M	N	Q	R	YW	YX	K	W	YV
L1 ~ L4	SBT0260TF	Line Filter	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1	2SC1741S	Transistor, Si, 0.3W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1	ERDS2TJ103	Carbon Film Resistor,1/4W		1	1	1	1				1	1						
R1	ERDS2TJ153	Carbon Film Resistor,1/4W							1	1			1	1	1		1	
R1	ERDS2TJ203	Carbox Film Resistor,1/4W														1		
R1	ERDS2TJ303	Carbox Film Resistor,1/4W						1										
R2	ERDS2TJ103	Carbon Film Resistor,1/4W		1	1	1	1				1	1						
R2	ERDS2TJ153	Carbon Film Resistor,1/4W							1	1			1	1	1		1	
R2	ERDS2TJ203	Carbox Film Resistor,1/4W														1		
R2	ERDS2TJ303	Carbox Film Resistor,1/4W						1										
R2	ERDS2T0T	Carbon Film Resistor,1/4W	1															1
R5	ERDS2TJ683	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R6	ERDS2TJ113	Carbon Film Resistor,1/4W		1	1	1	1			1	1	1	1	1	1			
R6	ERDS2TJ153	Carbon Film Resistor,1/4W	1															1
R6	ERDS2TJ163	Carbon Film Resistor,1/4W							1							1	1	
R6	ERDS2TJ273	Carbon Film Resistor,1/4W						1										
R7	ERDS2TJ102	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R8	ERDS2TJ334	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R9	ERDS2T0T	Carbon Film Resistor,1/4W					1											
R10	ERDS2T0T	Carbon Film Resistor,1/4W																1
R12	ERDS2TJ134T	Carbon Film Resistor,1/4W	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SW1	AV8201	Switch, Hook	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SW2	SSSF112L6	Switch					1											1
SW2	SSSF112P09N0	Switch	1	1	1	1		1	1	1	1	1	1	1	1	1	1	
SW3	SSSF112L6	Switch					1											1
X1	CSA3-58MG	Ceramic Oscillator, 3.58M					1											1
ZNR1	ERZTC4VK361	Surge Absorber	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



Model	Drawing Name
UF-V40 **UF-V60**	**SRU 1** **(DZYC0523)**

TABLE 1

No.	Ref.No.	DZYC0523A	DZYC0523B	DZYC0523S
1	IC1	DZZSP01157	DZZSP01158	DZZSP01171
2	IC2	------	LC7363J	------
3	IC3	BA8206	BA8205	BA8205
4	R1	2KΩ 1/4W	20KΩ 1/4W	30KΩ 1/4W
5	R2	2KΩ 1/4W	20KΩ 1/4W	30KΩ 1/4W
6	R3	------	100Ω 1/4W	------
7	R6	33KΩ 1/4W	○	27KΩ 1/4W
8	R10	------	0Ω 1/4W	------
9	C10,11	------	27pF/50V	------
10	C13	0.082uF/250V	------	1.0uF/250V
11	C14	2200pF/500V	0.01uF/250V	○
12	C15	0.068uF/250V	------	------
13	D9,D10	------	RD5.1ES	------
14	X1	------	CSA3.58MG	------
15	L5	LHL08NB272J	0Ω 1/4W	0Ω 1/4W
16	SW2	SSSF112-L9	SSSF112-L6	○
17	SW3	------	SSSF112-L6	------
18	JP2	------	0Ω 1/4W	------
19	JP3	0Ω 1/4W	------	○
20	JP4,5	------	0Ω 1/4W	------
21	JP12,13	------	0Ω 1/4W	------
22	CN38	------	07FE-BT	------
23	C1,2,3,4	------	680pF/50V	------
24	C5,6,7	------	680pF/50V	------
25	C16	------	1000pF/50V	------
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Object Nation	AUSTRIA	U.K	SWEDEN

------ : NOT MOUNTED

○ : SAME AS DZYC0523A TYPE

Model	Drawing Name
UF-V40 UF-V60	**SRU2 (DZYC0523)**

9.5 SRU PC Board (DZYC0523) (1/2)

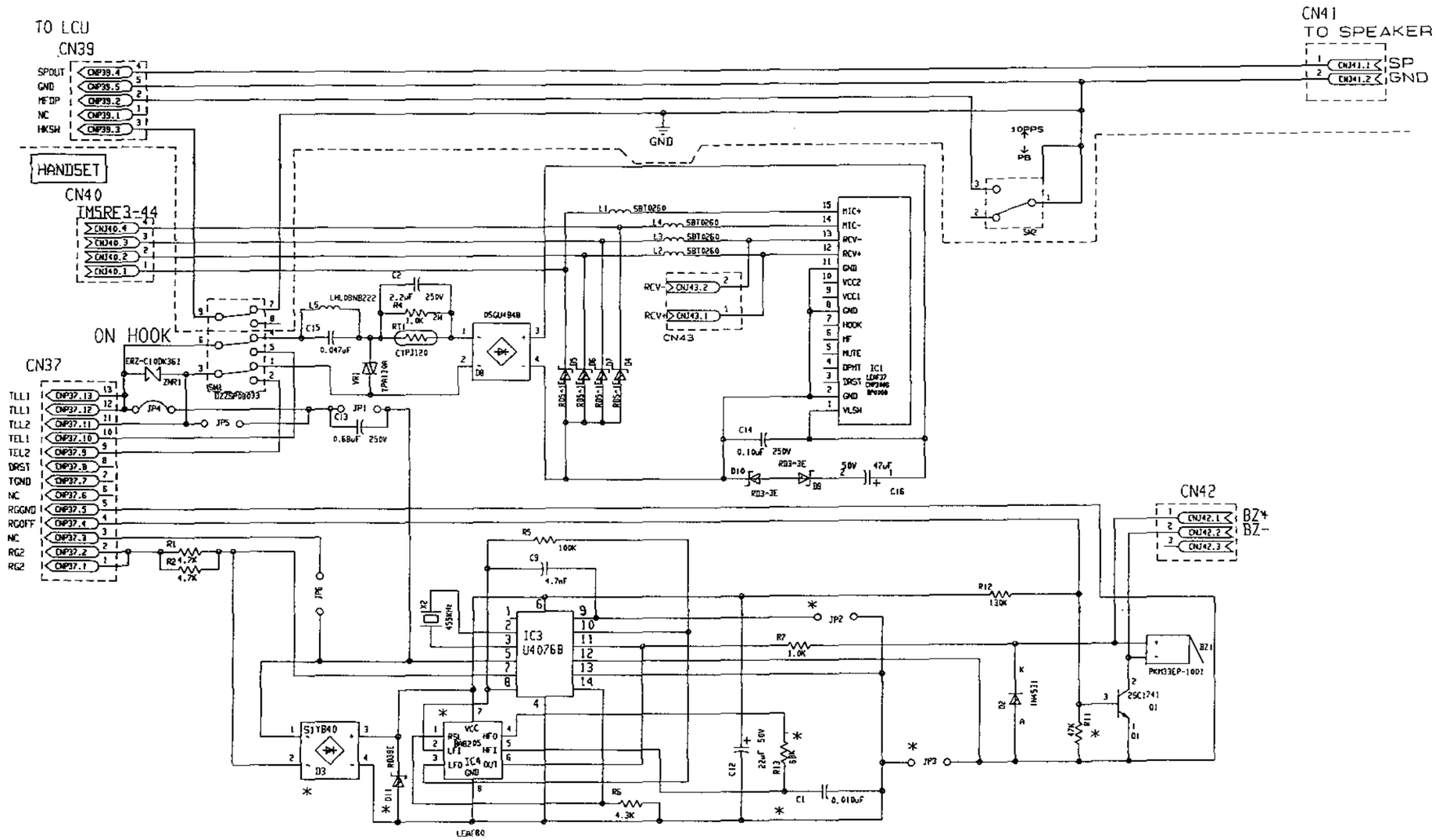
Country Code Table

Country Code	A	Austria	Country Code	S	Sweden
	B	U.K.			

Ref. No.	Part No.	Description	A	B	S
BZ1	PKM33EP-1101	Ringer, Ceramic	1	1	1
C1 ~ C7	ECBT1H681KB5	Ceramic Capacitor, S Layer		1	
C8	ECQB1H224KF3	Plastic Capacitor, Poly	1	1	1
C9	ECQB1H103KF	Plastic Capacitor, Poly		1	1
C10, C11	ECBT1H270J5	Ceramic Capacitor, S Layer		1	
C12	ECEA1HKA100B	Electrolytic Capacitor, Al	1	1	1
C13	ECQE2823KF3	Plastic Capacitor	1		
C13	ECQE2105KF3	Plastic Capacitor			1
C14	ECQE2103KF3	Plastic Capacitor		1	
C14	ECKR2H222KB5	Plastic Capacitor	1		1
C16	ECBT1H102KB5	Ceramic Capacitor, S Layer		1	
CN37	B13B-PH-K-S	Connector	1	1	1
CN38	07FE-BT	Connector		1	
CN39	B5B-PH-K-S	Connector	1	1	1
CN40	TM5RE3-44 CSB290A44-31	Connector	1	1	1
CN41	B2B-PH-K-S	Connector	1	1	1
CN43	B2B-PH-K-M	Connector	1	1	1
D1	RD39ES-T1	Zener Diode	1	1	1
D2	1N4531	Diode, SI, 200MA	1	1	1
D3	S1YB40	Diode Bridge	1	1	1
D4 ~ D7	RD5-1ES	Zener Diode	1	1	1
D8	05GU4B48	Diode, 0.5A	1	1	1
D9, D10	RD5-1ES	Zener Diode		1	
IC1	DZZSP01157	Hybrid IC	1		
IC1	DZZSP01158	Hybrid IC		1	
IC1	DZZSP01171	Hybrid IC			1
IC2	LC7363J	IC, MOS Logic (Other), Dial		1	
IC3	BA8205	IC,Linear Ringer		1	1
IC3	BA8206	IC,Linear Ringer	1		
JP2	ERDS2T0T	Carbon Film Resistor, 1/4W		1	
JP3	ERDS2T0T	Carbon Film Resistor, 1/4W	1		1
JP4, JP5	ERDS2T0T	Carbon Film Resistor, 1/4W		1	
JP6, JP7	ERDS2T0T	Carbon Film Resistor, 1/4W	1	1	1
JP8 ~ JP11	ERDS2T0T	Carbon Film Resistor, 1/4W	1	1	1
JP12	ERDS2T0T	Carbon Film Resistor, 1/4W		1	
JP13	ERDS2T0T	Carbon Film Resistor, 1/4W		1	

SRU PC Board (DZYC0523) (2/2)

Ref. No.	Part No.	Description	A	B	S
L1 ~ L4	SBT0260TF	Line Filter	1	1	1
L5	ERDS2T0T	Carbon Film Resistor, 1/4W		1	1
L5	LHL08TB272J	Inductor	1		
Q1	2SC1741STP	Transistor	1	1	1
R1	ERDS2TJ202	Carbon Film Resistor, 1/4W	1		
R1	ERDS2TJ203	Carbon Film Resistor, 1/4W		1	
R1	ERDS2TJ303	Carbon Film Resistor, 1/4W			1
R2	ERDS2TJ202	Carbon Film Resistor, 1/4W	1		
R2	ERDS2TJ203	Carbon Film Resistor, 1/4W		1	
R2	ERDS2TJ303	Carbon Film Resistor, 1/4W			1
R3	ERDS2TJ101	Carbon Film Resistor, 1/4W		1	
R5	ERDS2TJ683	Carbon Film Resistor, 1/4W	1	1	1
R6	ERDS2TJ273	Carbon Film Resistor, 1/4W			1
R6	ERDS2TJ333	Carbon Film Resistor, 1/4W	1	1	
R7	ERDS2TJ102	Carbon Film Resistor, 1/4W	1	1	1
R8	ERDS2TJ334	Carbon Film Resistor, 1/4W	1	1	1
R10	ERDS2T0T	Carbon Film Resistor, 1/4W		1	
R12	ERDS2TJ134	Carbon Film Resistor	1	1	1
SW1	DZZSP08033	Swtich, Hook	1	1	1
SW2	SSSF112L6	Switch		1	
SW2	SSSF112P09N0	Switch	1		1
SW3	SSSF112L6	Switch		1	
X1	CSA3-58MG	Ceramic Oscillator, 3.58M		1	
ZNR1	ERZTC4VK361	Surge Absorber	1	1	1



*: Not Mounted

Model	Name
UF-V40 UF-V60	**SRU 1 (DZYC0524)**

TABLE 1

No.	Ref.No.	DZYC0524G	DZYC0524D	DZYC0524V
1	IC1	DZZSP01161A	DZZSP01159	DZZSP01206
2	IC3	U4076B	-----	-----
3	IC4	-----	BA8205	BA8205
4	R1, R2	4.7KΩ, 1/4W	10KΩ, 1/4W	10KΩ, 1/4W
5	R4	0Ω, 1/4W	0Ω, 1/4W	1KΩ, 2W
6	R5	100KΩ, 1/4W	330KΩ, 1/4W	330KΩ, 1/4W
7	R6	20KΩ, 1/4W	11KΩ, 1/4W	11KΩ, 1/4W
8	R13	-----	68KΩ, 1/4W	68KΩ, 1/4W
9	C1	-----	0.01uF/50V	0.01uF/50V
10	C2	-----	-----	2.2uF/250V
11	C9	4700pF/50V	0.22uF/50V	0.22uF/50V
12	C12	22uF/50V	10uF/50V	10uF/50V
13	C13	0.56uF/250V	1uF/250V	1uF/250V
14	C14	0.01uF/250V	2200pF/500V	2200pF/500V
15	C15	0.047uF/50V	-----	-----
16	C16	47uF/16V	47uF/16V	-----
17	L5	LHL08NB222	0Ω, 1/4W	0Ω, 1/4W
18	VR1	-----	-----	TPA130A
19	RT1	-----	-----	CTPJ120
20	D3	-----	1SYB40	1SYB40
21	D9, D10	RD3.3E	RD2.7E	-----
22	D11	-----	RD36E	RD36E
23	X2	CSB455E24	-----	-----
24	JP2	-----	0Ω, 1/4W	0Ω, 1/4W
25	JP3	-----	0Ω, 1/4W	0Ω, 1/4W
26	JP8	-----	0Ω, 1/4W	0Ω, 1/4W
27	JP10	-----	0Ω, 1/4W	0Ω, 1/4W
28				
29				
30				
31				
32				
33				
34				
35				

Object Nation	GERMANY	DENMARK	FRANCE

------ : NOT MOUNTED

Model	Drawing Name
UF-V40 UF-V60	**SRU 2 (DZYC0524)**

9.5 SRU PC Board (DZYC0524) (1/2)

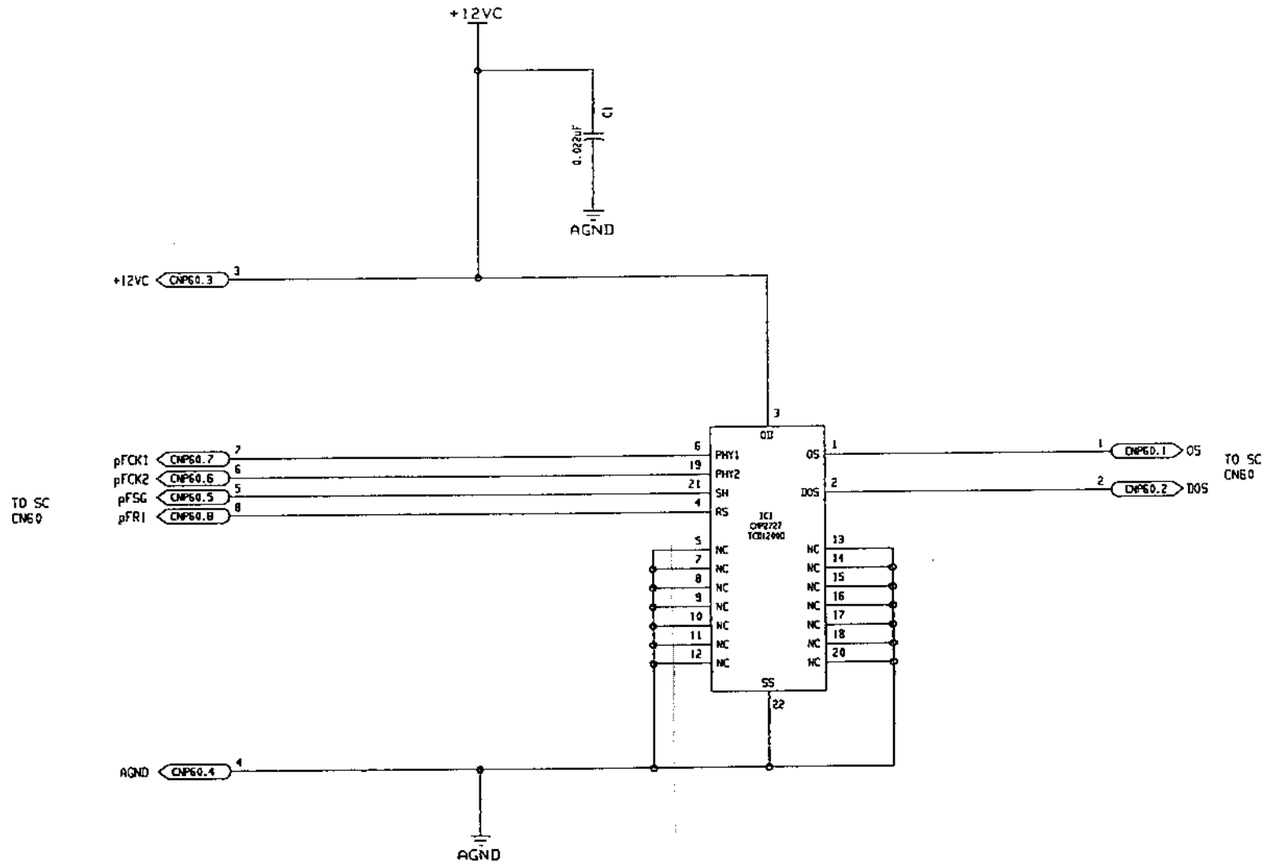
Country Code Table

Country Code	G	Germany
	D	Denmark

Ref. No.	Part No.	Description	G	D
BZ1	PKM33EP-1101	Ringer, Ceramic	1	1
C1	ECQB1H103KF	Plastic Capacitor		1
C9	ECQB1H472JF	Plastic Capacitor, Poly	1	
C9	ECQB1H224JF3	Plastic Capacitor		1
C12	ECEA1HKA220	Electrolytic Capacitor,Al	1	
C12	ECEA1HKA100B	Electrolytic Capacitor		1
C13	ECQE2564KF3	Plastic Capacitor	1	
C13	ECQE2105KF	Plastic Capacitor		1
C14	ECQE2103KF	Plastic Capacitor	1	
C14	ECKR2H222KB5	Plastic Capacitor		1
C15	ECQB1H473KF	Plastic Capacitor	1	
C16	ECEA1CN470S	Electrolytic Capacitor,Al	1	1
	ECEA1EN470S			
CN37	B13B-PH-K-S	Connector	1	1
CN39	B5B-PH-K-S	Connector	1	1
CN40	TM5RE3-44	Connector	1	1
	CSB290A44-31			
CN41	B2B-PH-K-S	Connector	1	1
CN43	B2B-PH-K-M	Connector	1	1
D2	1N4531	Diode, SI, 200MA	1	1
	MA178			
D3	1SYB40	Diode Bridge		1
D4 ~ D7	RD5-1ES	Zener Diode	1	1
	MTZJ5-1B			
D8	05GU4B48	Diode,0.5A	1	1
D9, D10	RD3-3ES	Zener Diode	1	
	MTZJ3-3B			
D9, D10	RD2-7ES	Zener Diode		1
D11	RD3-6ES	Zener Diode		1
IC1	DZZSP01161A	Hybrid IC	1	
IC1	DZZSP01159	Hybrid IC		1
IC3	U4076B	IC, Linear Ringer	1	
IC4	BA8205	IC, Linear Ringer		1
JP2, JP3	ERDS2T0T	Jumper		1
JP4	ERDS2T0T	Jumper	1	1
JP7	ERDS2T0T	Jumper	1	1
JP8	ERDS2T0T	Jumper		1
JP9	ERDS2T0T	Jumper	1	1
JP10	ERDS2T0T	Jumper		1

SRU PC Board (DZYC0524) (2/2)

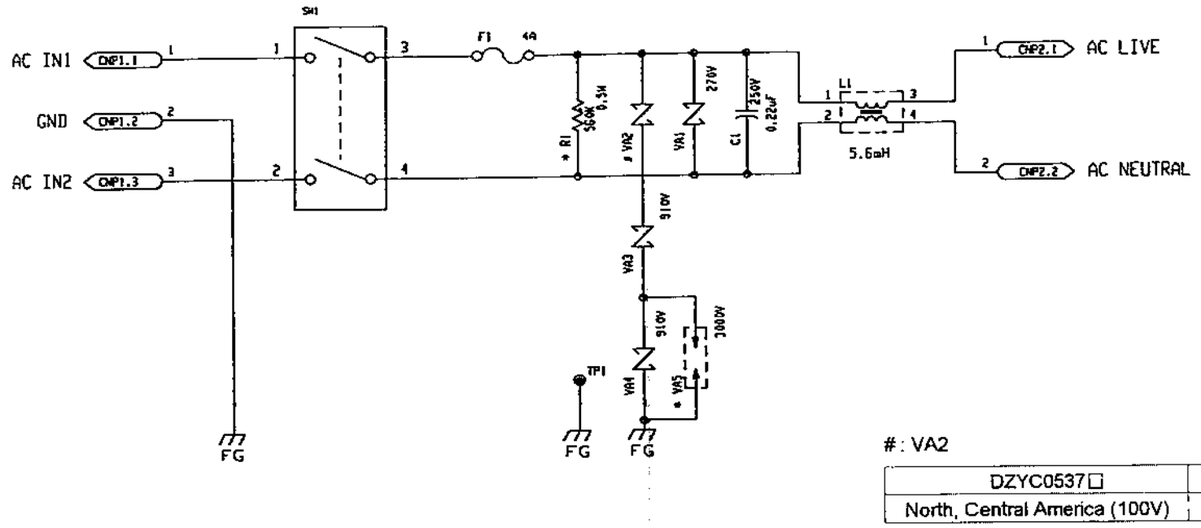
Ref. No.	Part No.	Description	G	D
JP11 ~ JP17	ERDS2T0T	Jumper	1	1
L1 ~L4	SBT0260TF	Line Filter	1	1
L5	LHL08TB222J	Inductance	1	
L5	EDRS2T0T	Resistor		1
Q1	2SC1741STP	Transistor	1	1
R1, R2	ERDS2TJ472	Carbon Film Resistor,1/4W	1	
R1, R2	ERDS2TJ103	Carbon Film Resistor,1/4W		1
R4	EDR2ST0T	Resistor	1	1
R5	ERDS2TJ104	Carbon Film Resistor,1/4W	1	
R5	ERDS2TJ334	Carbon Film Resistor,1/4W		1
R6	ERDS2TJ203	Carbon Film Resistor,1/4W	1	
R6	ERDS2TJ113	Carbon Film Resistor,1/4W		1
R7	ERDS2TJ102	Carbon Film Resistor,1/4W	1	1
R12	ERDS2TJ134	Carbon Film Resistor	1	1
R13	ERDS2TJ683	Carbon Film Resistor,1/4W		1
SW1	DZZSP08033	Switch, Hook	1	1
SW2	SSSF112P09N0	Switch	1	1
X2	CSB455E24	Cryistal Oscillator 455HZ	1	
	NTKKR455C			
	EF0A455K			
	KBR455B			
ZNR1	ERZTC4VK361	Surge Absorber	1	1



Model	Drawing Name
UF-V40 UF-V60	CCD 1 (DZYC0544)

9.6 CCD PC Board (DZYC0544)

Ref. No.	Part No.	Description
IC1	TCD1206D	CCD
IC1	TCD1206UD	CCD
C1	GRM4B223K1HT	Ceramic Capacitor, 0.022μF, 50VDC
CNP60	08FM-1SP	Connector



#: VA2

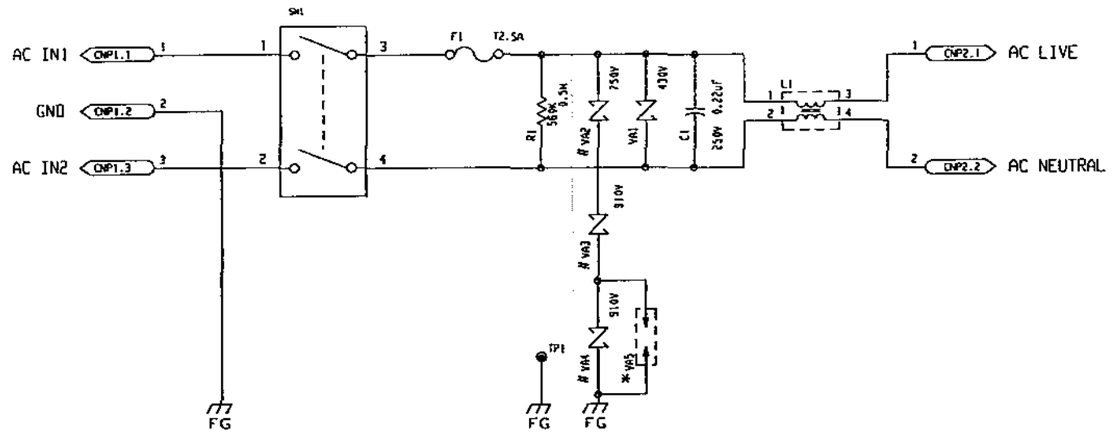
DZYC0537□	VA2
North, Central America (100V)	ZNR 270V

*: R1 and VA5 are Not Mounted

Model	Name
UF-V40 UF-V60	**POW 1 (100V DZYC0537)**

9.7 POW 1 PC Board (DZYC0537)

Ref. No.	Part No.	Description
C1	ECQU2A224MV	Plastic Capacitor
CNP1	NC-179-L2	INLET
F1	FGMT125V4A	Fuse,4A
FG	TW-4BS-2K	Earth Lag
L1	ELF18D290M	Choke Coil
SW1	EST22402B	Switch
VA1	ERZC10DK271U	Varistor,270V
VA2	ERZC10DK271U	Varistor,270V
VA3	ERZC10DK911U	Varistor,910V
VA4	ERZC10DK911U	Varistor,910V



: REFER TABLE

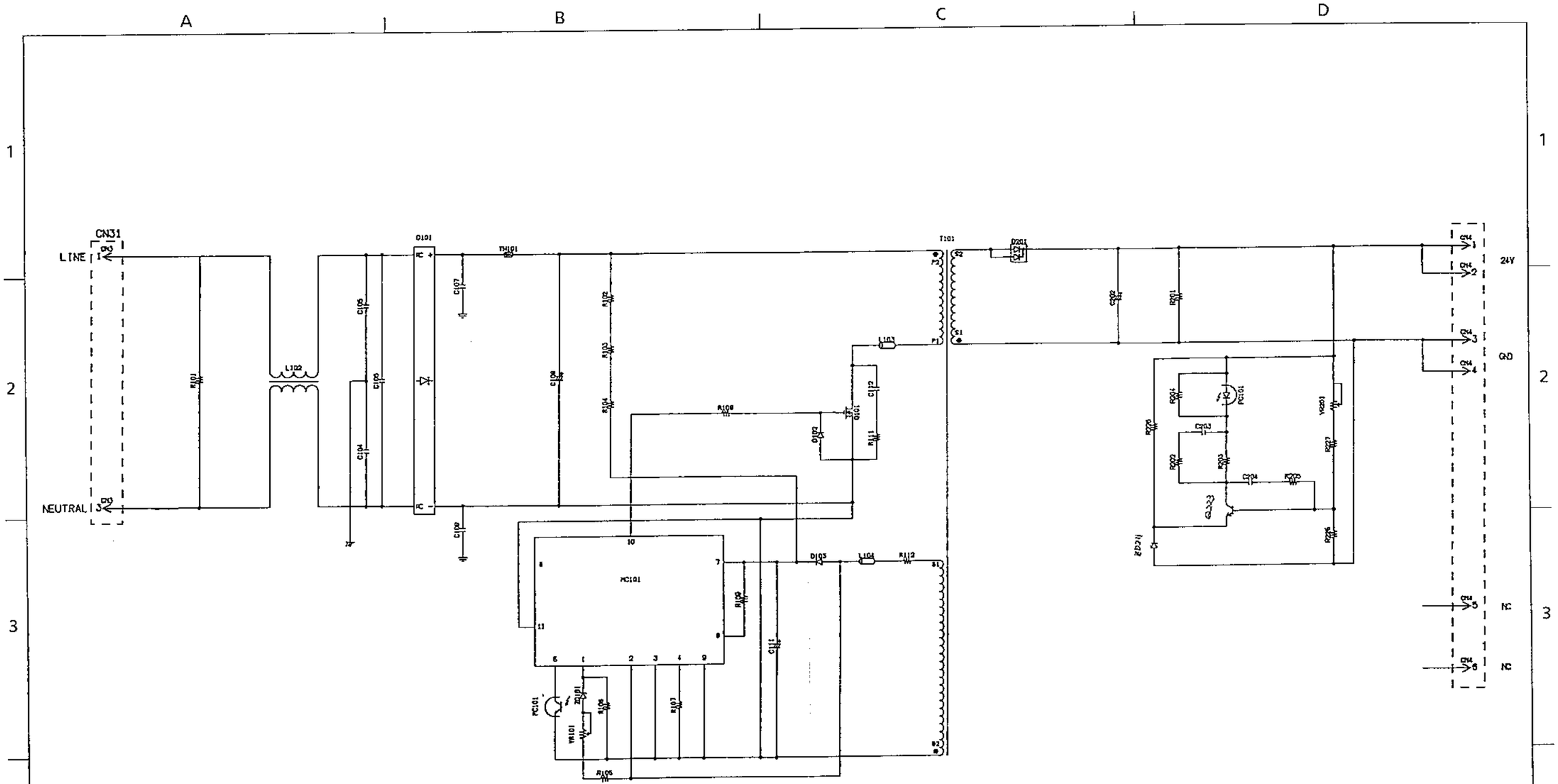
	DZYC0557B	DZYC0557Y
VA2	Not mounted	750V
VA3	Not mounted	910V
VA4	Not mounted	910V

* : VA5 is Not mounted

Model	Drawing Name
UF-V40 **UF-V60**	**POW 1** **(200V DZYC0557)**

9.7 POW 1 PC Board (DZYC0557)

Ref. No.	Part No.	Description
C1	ECQU2A224MV	Plastic Capacitor
CNP1	NC-179-L2	Inlet
F1	21802-5	Fuse,200V/2.5A
FG	TW-4BS-2K	Earth Lag
L1	ELF18D290M	Choke Coil
R1	ERDS1TJ564	Carbon Film Resistor,1/4W
SW1	EST22402B	Switch
VA1	ERZC10DK431U	Varistor,430V
VA2	ERZC10DK751U	Varistor,750V
VA3	ERZC10DK911U	Varistor,910V
VA4	ERZC10DK911U	Varistor,910V



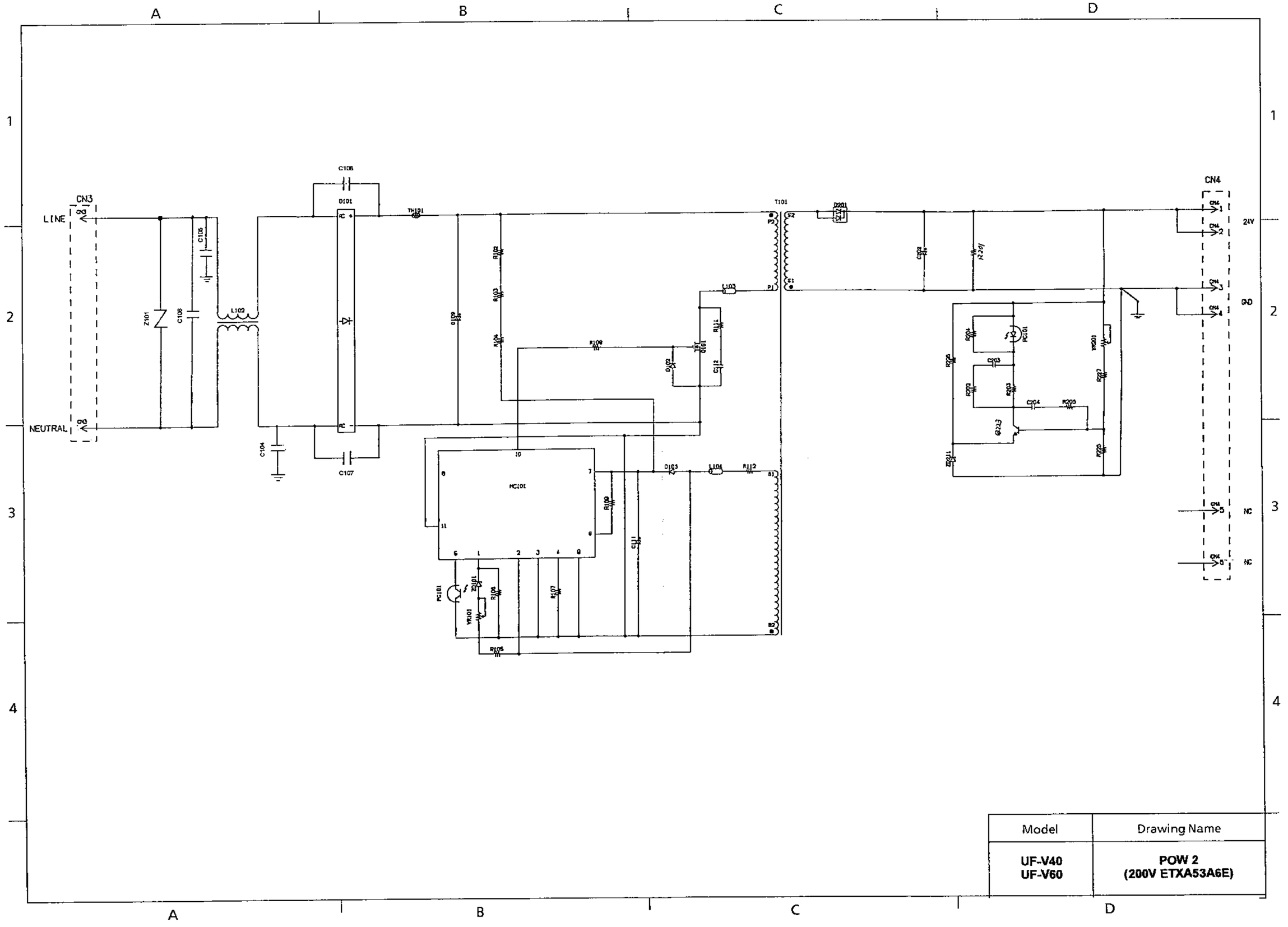
Model	Drawing Name
UF-V40 **UF-V60**	**POW 2** **(100V EXTA53A6A)**

9.7 POW 2 (EXTA53A6A) (1/2)

Ref. No.	Part No.	Description
C104	KC332M	Ceramic Capacitor, 3300pF
C105	KC332M	Ceramic Capacitor, 3300pF
C106	ECQU2A104MVA	Film Capacitor, 250V, 0.1μF
C106	XA104	Film Capacitor, 250V, 0.1μF
C107	KC102K	Ceramic Capacitor, 1000pF
C108	KC102K	Ceramic Capacitor, 1000pF
C109	ECEC2DA221CX	Electrolytic Capacitor, 200V, 220μF
C111	ECEA1VFS220	Electrolytic Capacitor, 35V, 22μF
C112	ECKZ3A221KB	Ceramic Capacitor, 1kV, 220pF
C112	ECKZ3A221KB	Ceramic Capacitor, 2kV, 220pF
C202	EEUFA1V391S	Electrolytic Capacitor, 35V, 390μF
C203	ECQB1H563KF	Film Capacitor, 50V, 0.056μF
	AMZ50K563	
CN3	S2P3-VH	Connector
CN4	B8B-PH-KS	Connector
D101	S1VBA60	Diode, 600V, 1.0A
D102	1SS270A7	Diode, 75V, 0.15A
	MA165	Diode, 80V, 0.15A
	MA700A	Diode, 30V, 0.03A
D103	RMPG06D	Diode, 200V, 1A
	AL01Z	
	ERA91-02	
D201	MA644	Diode, 200V, 5A
L102	ELF 18D290M	Filter Choke 0.8A, 5.6mH
L103	EXCELDR35V	Beads Inductor
L104		Jumper (5mm)
MC101	ML30E	Module
PC101	PS2501-1	Photo Coupler, PC
	ON3131	
	TLP621	
Q101	2SK2117	FET, 35W, 500V
	2SK1567	FET, 35W, 500V
	IRFI840	FET, 40W, 500V
Q223	2SC4640	Transistor, 0.3W, 50V
	2SC3311	Transistor, 0.3W, 50V
	2SD1740	Transistor, 0.3W, 40V
R101	ERDS1TJ474	Carbon Film Resistor, 0.5W, 470kΩ
R102	ERDS1TJ183	Carbon Film Resistor, 0.5W, 18kΩ
R103	ERDS1TJ183	Carbon Film Resistor, 0.5W, 18kΩ
R104	ERDS1TJ183	Carbon Film Resistor, 0.5W, 18kΩ
R105	ERDS2TJ393	Carbon Film Resistor, 0.25W, 39kΩ
R106	ERDS2TJ122	Carbon Film Resistor, 0.25W, 1.2kΩ
R107	ERDS2TJ471	Carbon Film Resistor, 0.25W, 470Ω
R108	ERG12SJU330	Metal Oxide Film Resistor, 0.5W, 33Ω

POW 2 (EXTA53A6A) (2/2)

Ref. No.	Part No.	Description
R109	ERDS2TJ682	Carbon Film Resistor, 0.25W, 6.8kΩ
R111	ERG1SJU100	Metal Oxide Film Resistor, 1W, 10Ω
R112	ERDS1TJ8R2	Carbon Film Resistor, 0.5W, 8.2Ω
R202	ERDS2TJ223	Carbon FilmResistor, 0.25W, 22kΩ
R203	ERDS2TJ182	Carbon Film Resistor, 0.25W, 1.8kΩ
R204	ERDS2TJ562	Carbon Film Resistor, 0.25W, 5.6kΩ
R225	ERDS2TJ102	Carbon Film Resistor, 0.25W, 1.0kΩ
R226	ERDS2TJ562	Carbon Film Resistor, 0.25W, 5.6kΩ
R227	ERDS2TJ222	Carbon Film Resistor, 0.25W, 2.2kΩ
T101	ETB28BF145	Transformer
TH101	RCS1158R0	Thermistor 8Ω
	NTH11D8R0	
VR101	EVTEASA01B54	Variable Resistor, 0.1W, 50kΩ
VR201	EVTEASA01B13	Variable Resistor, 0.1W, 1kΩ
ZD101	MA4068	Zener Diode, 6.8V, 0.4W
ZD211	MA4062	Zener Diode, 6.2V, 0.4W



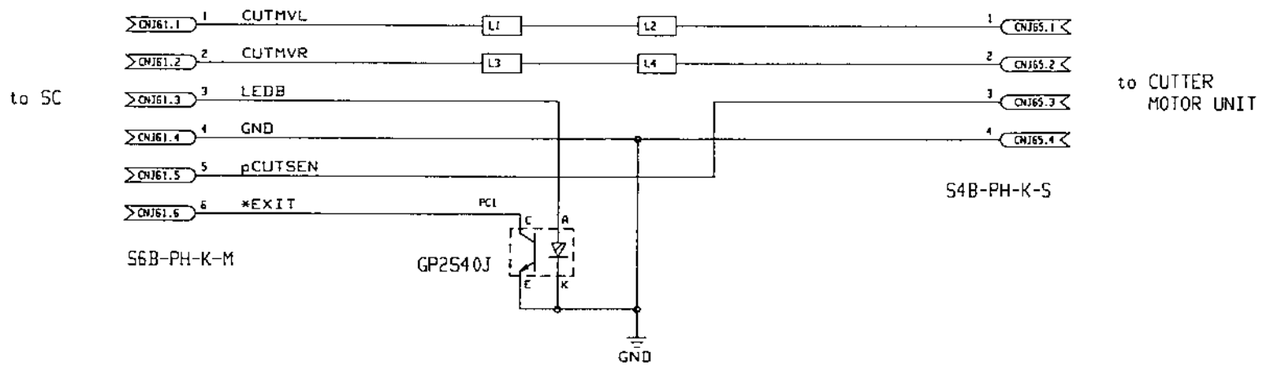
Model	Drawing Name
UF-V40 **UF-V60**	**POW 2** **(200V ETXA53A6E)**

9.7 POW 2 (EXTA53A6E) (1/2)

Ref. No.	Part No.	Description
C104	KC332M	Ceramic Capacitor, 3300pF
C105	KC332M	Ceramic Capacitor, 3300pF
C106	ECQU2A104MV	Film Capacitor, 250V, 0.1μF
	XA104M	
C107	KC102K	Ceramic Capacitor, 1000pF
C108	KC102K	Ceramic Capacitor, 1000pF
C109	ECEC2GA680CZ	Electrolytic Capacitor, 400V, 68μF
C111	ECEA1VFS220	Electrolytic Capacitor, 35V, 22μF
C112	ECKZ3D221K	Ceramic Capacitor, 2kV, 220pF
C202	EEUFA1V391S	Electrolytic Capacitor, 35V, 390μF
C203	ECQB1H473KF	Film Capacitor, 50V, 0.047μF
	AMZ50K473	
CN3	S2P3-VH	Connector
CN4	B8B-PH-KS	Connector
D101	S1VBA60	Diode, 600V, 1.0A
D102	MA700A	Diode, 30V, 0.03A
D103	RMPG06D	Diode, 200V, 1A
D201	MA644	Diode, 200V, 5A
L102	ELF 18D290A	0.5A, 18mH
L103	EXCELDR35V	Beads Inductor
L104		Jumper (5mm)
MC101	ML30E1	Hybird IC
PC101	PS2652	Photo Coupler, PC
PC101	TLP634	Photo Coupler, PC
Q101	2SK1643	FET, 900V
Q223	2SC4640	Transistor, 0.3W, 50V
R102	ERG1SJU473	Metal Oxide Film Resistor, 1W, 47kΩ
R103	ERG1SJU473	Metal Oxide Film Resistor, 1W, 47kΩ
R104	ERG1SJU393	Metal Oxide Film Resistor, 1W, 39kΩ
R105	ERDS2TJ562	Carbon Film resistor, 0.25W, 5.6kΩ
R106	EROS2TKF6040	Carbon Film resistor, 0.25W, 604Ω
R107	ERDS2TJ471	Carbon Film resistor, 0.25W, 470Ω
R108	ERG12SJW220	Metal Oxide Film Resistor, 0.5W, 22Ω
R109	ERDS2TJ682	Carbon Film resistor, 0.25W, 6.8kΩ
R111	ERG1SJ 100	Metal Oxide Film Resistor, 1W, 10Ω
R112	ERDS1TJ8R2	Carbon Film resistor, 0.5W, 8.2Ω
R202	ERDS2TJ121	Carbon Film resistor, 0.25W, 120Ω
R203	ERDS2TJ182	Carbon Film resistor, 0.25W, 1.8kΩ
R204	ERDS2TJ562	Carbon Film resistor, 0.25W, 5.6kΩ
R225	ERDS2TJ102	Carbon Film resistor, 0.25W, 1.0kΩ
R226	ERDS2TJ562	Carbon Film resistor, 0.25W, 5.6kΩ
R227	ERDS2TJ222	Carbon Film resistor, 0.25W, 2.2kΩ
T101	ETB28BF168	Transformer

POW 2 (EXTA53A6E) (2/2)

Ref. No.	Part No.	Description
TH101	RCS117160	Thermistor, 16Ω
	NTH13D160	
VR101	EVTEASA01B54	Variable Resistor, 0.1W, 50kΩ
VR201	EVTEASA01B13	Variable Resistor, 0.1W, 1kΩ
ZD101	MA4091	Zener Diode, 9.1V, 0.4W
ZD211	MA4062	Zener Diode, 6.2V, 0.4W

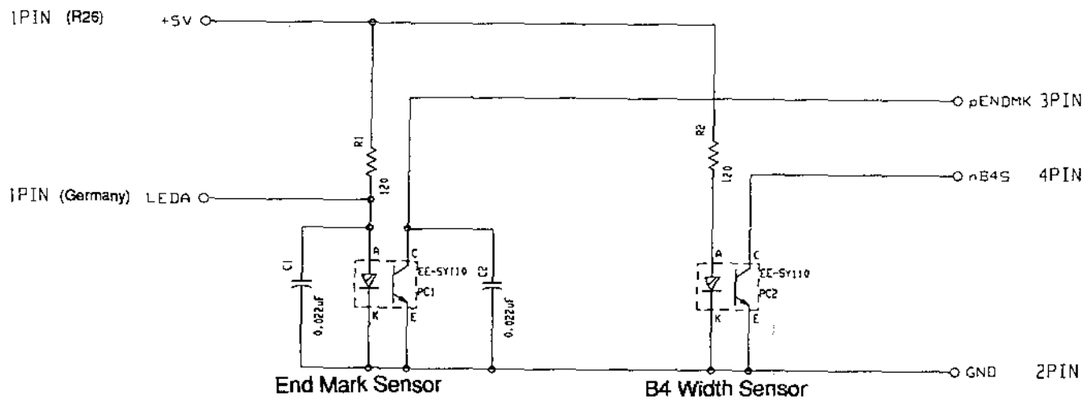


	SW1	PC1
	CUTTER POSITION	EXIT
	pCUTSEN	*EXIT
IDLE	CLOSE (L)	(H)
MOTION	OPEN (H)	(L)

Model	Drawing Name
UF-V40 UF-V60	**MIF 1 (DZYC0538)**

9.8 MIF PC Board (DZYC0538)

Ref. No.	Part No.	Description
PC1	GP2S40J	Photo Interrupter
CN61	S6B-PH-K-M	Connector
CN65	S4B-PH-K-S	Connector
L1	ZBF503AR-00 (TA)	Beads Filter
L2	ZBF503AR-00 (TA)	Beads Filter
L3	ZBF503AR-00 (TA)	Beads Filter
L4	ZBF503AR-00 (TA)	Beads Filter



Part / Pin	Signal	DZYC0545 Germany	R26	Note
PC1	-	Mounted	Mounted	
PC2	-	Not mounted	Mounted	
R1	-	Not mounted	Mounted	
R2	-	Not mounted	Mounted	
C1	-	Reserved	Reserved	
C2	-	Reserved	Reserved	
1 PIN (DZYC0545)	LEDA	Connected	N. C	
2 PIN	GND	Connected	Connected	
3 PIN	pENDMK	Connected	Connected	
4 PIN	nB4S	N. C	Connected	
1 PIN (R26)	+5V	N. C	Connected	

	Harness
DZYC0545	3 pcs
R26	4 pcs

Model	Drawing Name
UF-V40 UF-V60	**ENDMK 1 (DZYC0545)**

9.9 ENDMK PC Board (DZYC0545)

Ref. No.	Part No.	Description
PC1	EE-SY110-A	Photo Coupler
END	DZBBF8720	Strap ESEN2