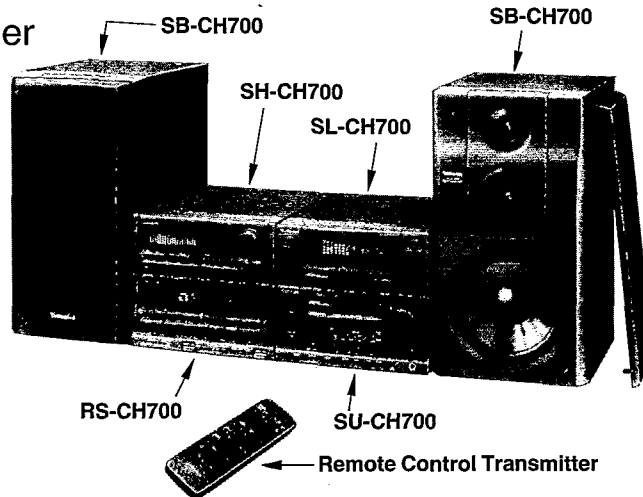


# Service Manual

Power Amplifier



Amplifier

## SU-CH700

Colour

(K) ..... Black Type

### Areas

| Suffix for Model No. | Area  | Colour |
|----------------------|---|--------|
| (E)                  | Continental Europe.                               | (K)    |
| (EB)                 | Great Britain.                                    |        |
| (EG)                 | Germany and Italy.                                |        |
| (GC)                 | Asia, Latin America, Middle Near East and Africa. |        |
| (GN)                 | Oceania.  |        |

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

## ■ SPECIFICATIONS

### ■ POWER AMPLIFIER SECTION

Power output

Front+Surround:

DIN 1 kHz THD 1% 6Ω, 2×40 W

Total Harmonic distortion

Half power at 1 kHz:

0.09% (6Ω)

Impedance

Front:

6Ω

Surround:

8Ω

### ■ PRE AMPLIFIER SECTION

Input sensitivity/Impedance

Front:

200 mV/47 kΩ

Mic:

0.7 mV/12 kΩ

Loudness:

5 dB (60 Hz)/for volume position -30 dB

### ■ GENERAL

Power consumption:

250 W (SYSTEM)

Power supply

For Great Britain and Oceania:

AC 50/60 Hz, 230~240 V

For Germany, Italy and

Continental Europe:

AC 50/60 Hz, 230 V

For others:

AC 50/60 Hz, 110 V/127 V/220 V/240 V

Dimensions (W×H×D):

215×110×346 mm

Weight:

5.1 kg

Notes:

- Specifications are subject to change without notice.
- Weight and dimensions shown are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

### System: SC-CH700

| System   | Tuner/CD player | Sound Processor | Power Amplifier | Cassette Deck | Speakers  |
|----------|-----------------|-----------------|-----------------|---------------|-----------|
| SC-CH700 | SL-CH700        | SH-CH700        | SU-CH700        | RS-CH700      | *SB-CH700 |

\*(E), (EB), (EG) areas... Made in PAES

# Technics

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## BEFORE REPAIR

- Turn off the power supply. Using a 10Ω, 10 W resistor, connect both ends of power supply capacitors (C703, C704) in order to discharge the voltage.
- Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode is mode should be shown below with respect to supply voltage 110 V/120 V/ 220 V/240 V.

| Power supply voltage   | AC 110 V   | AC 120 V   | AC 220 V   | AC 230 V   | AC 240 V   |
|------------------------|------------|------------|------------|------------|------------|
| Consumed current 50 Hz | 279~518 mA | 264~491 mA | 142~265 mA | 152~283 mA | 133~248 mA |
| Consumed current 60 Hz | 229~426 mA | 222~413 mA | 120~223 mA | 125~232 mA | 112~208 mA |

## PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

\*No sound is heard when the power is switched ON.

\*Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

- Switch OFF the power.
- Determine the cause of the problem and correct it.
- Switch ON the power once again.

### Note:

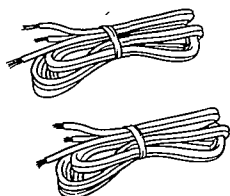
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

## ACCESSORIES

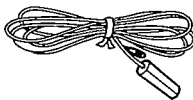
Attachment plug ..... 1 pc.  
<SJP9009> for (EB) area



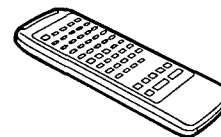
Speaker cord ..... 2 pcs.  
<SWXS257M>



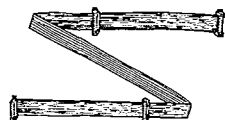
TV/FM indoor antenna .... 1 pc.  
<RSA0006> for (GC) (GN) area  
<RSA0007> for (E) (EB) (EG) area



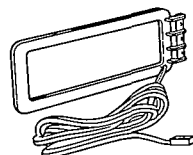
Remote control transmitter ..... 1 pc.  
<RAK-SC514W>



Flat cable ..... 1 pc.  
<REX0402>



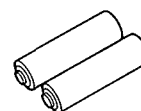
AM loop antenna ..... 1 pc.  
<SPB1163T>



Antenna holder ..... 1 pc.  
<SMA233-1M>



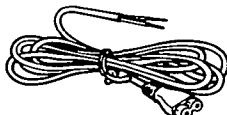
Remote control batteries ... 2 pcs.  
<R03>



Optical cable ..... 1 pc.  
<SJP2281>



AC Power supply cord .... 1 pc.  
<RJA0019-1K> for (E) (EG) area  
<SJA193> for (EB) area  
<RJA0004> for (GC) area  
<SJA173> for (GN) area

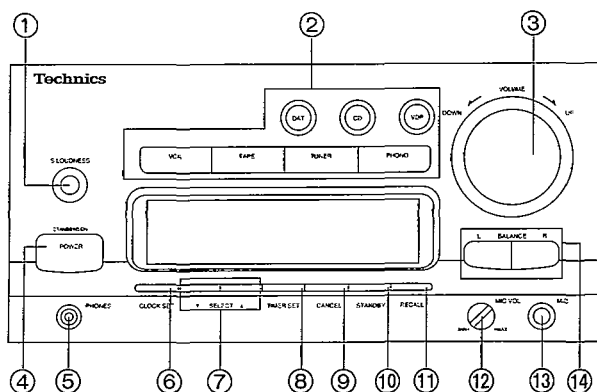


Screws ..... 2 pcs.  
<XTN3+10AFZ>



AC plug adaptor ..... 1 pc.  
<SJP9215> for (GC) area

## LOCATION OF CONTROL

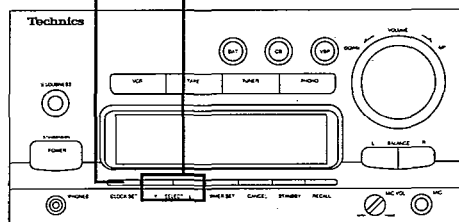


- ① **Loudness button (S. LOUDNESS)**  
This button is used to boost the dynamic low frequency ranges in a low volume level.
- ② **Input select buttons (DAT, CD, VDP, VCR, TAPE, TUNER, PHONO)**  
These buttons are used to select the sound source to be heard.
- ③ **Volume level control (VOLUME)**  
This control is used to adjust the volume level.  
Note that "-- dB" is the lowest volume setting and "0 dB" is the highest level setting.

- ④ **Power "STANDBY  $\odot$ /ON" switch (POWER STANDBY  $\odot$ /ON)**  
This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the STANDBY  $\odot$  position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.
- ⑤ **Headphones jack (PHONES)**
- ⑥ **Clock set button (CLOCK SET)**  
This button is used to set the present time.
- ⑦ **Timer select buttons ( $\nabla$  SELECT  $\blacktriangle$ )**  
These buttons are used when setting the time, making the timer setting, selecting the type of timer operation, etc.
- ⑧ **Timer set button (TIMER SET)**  
This button is used to enable the timer set mode and the current selection, selected by the timer select buttons.
- ⑨ **Timer cancel button (CANCEL)**  
This button is used to cancel the timer setting.
- ⑩ **Timer standby button (STANDBY)**  
This button is used to cancel the timer setting temporarily.
- ⑪ **Timer setting confirmation button (RECALL)**  
This button is used to confirm the timer settings.
- ⑫ **Microphone volume control (MIC VOL.)**  
This control is used to adjust the microphone volume level.
- ⑬ **Microphone Jack (MIC)**
- ⑭ **Balance adjustment buttons (BALANCE)**  
These buttons are used to adjust the volume balance.

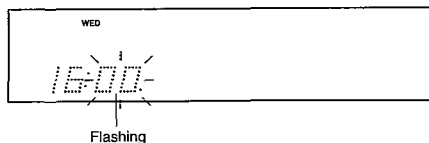
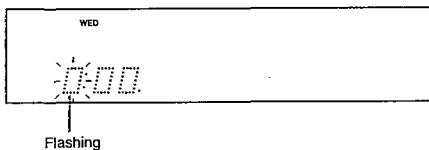
## Setting the time

1·3·5·7      2·4·6

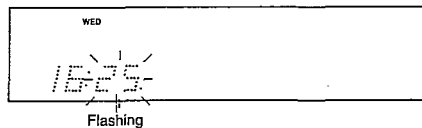


For example:  
To set the time at 16:25 on Wednesday (4:25 pm).  
Have you switched on the power?

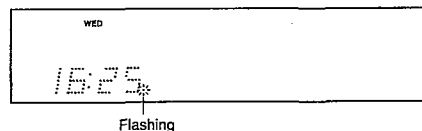
- 1 Press the clock set button.  
The day indicator will start to flash.
- 2 Press one of the timer select buttons to select "WED".
- 3 Press the clock set button.
- 4 Press one of the timer select buttons to select "16".
- 5 Press the clock set button.



- 6 Press one of the timer select buttons to select "25".  
Note that the minute "00" display appears following "59", but the hour display is not changed.



- 7 Press the clock set button to finish setting the time.  
The dot indicator will start to flash to indicate the clock is working.

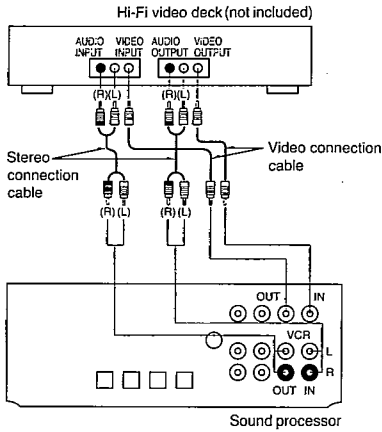


Note:  
•"E" appears on the display when the power cord is connected or by electricity failure. Set the time once again.

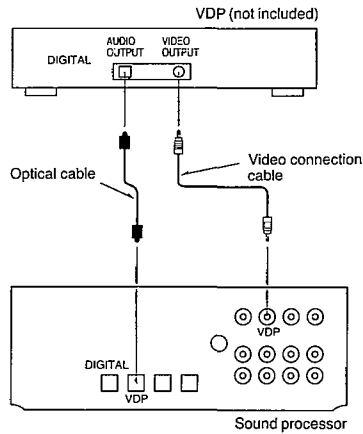
# CONNECTIONS

## External unit connection

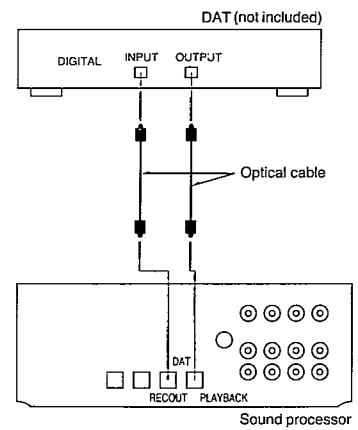
### Video deck



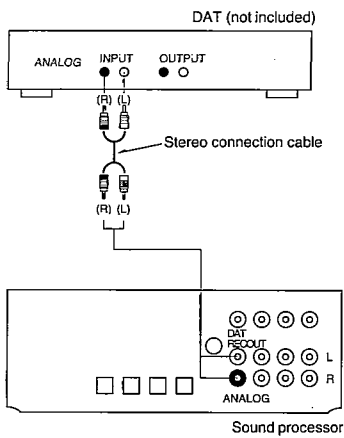
### Video disc player



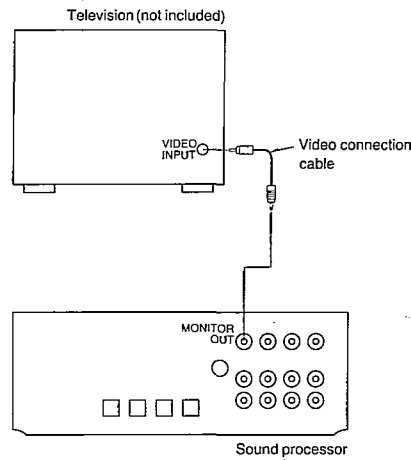
### DAT (digital audio tape deck) (with optical cables)



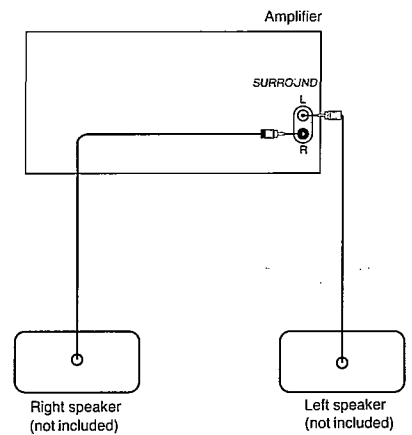
### DAT (only recording out) (with stereo connection cables)



### Television



### Surround speakers

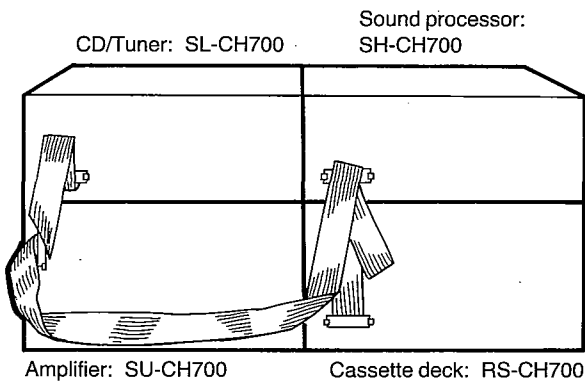


Be sure to connect both speaker systems. If only one side is connected, no sound will be heard.

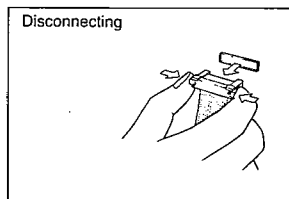
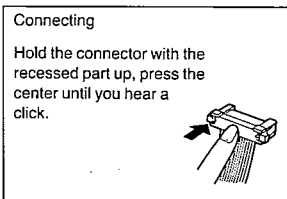
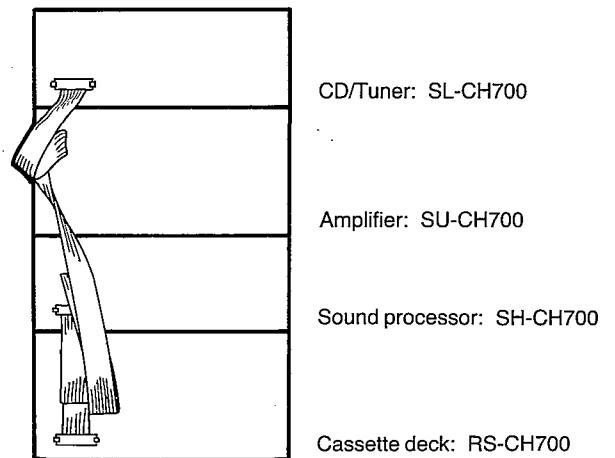
You can record the original sound that you have created with this system to DAT tape.

## Connect the flat cables

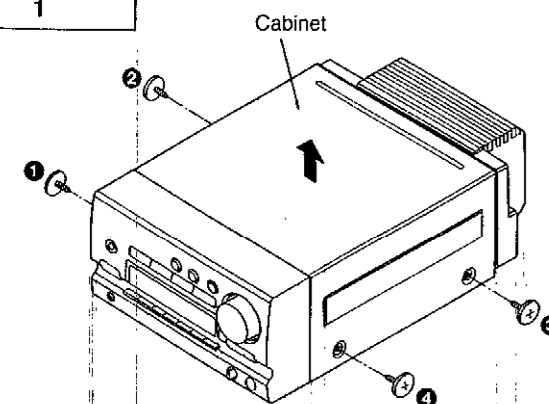
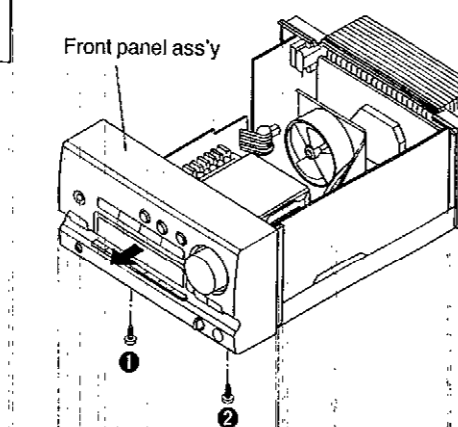
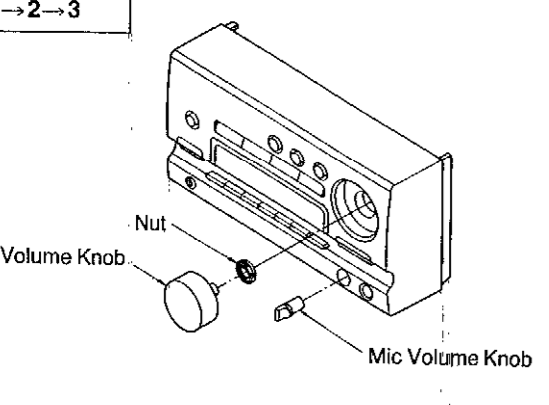
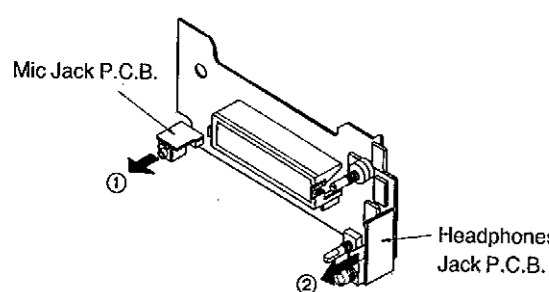
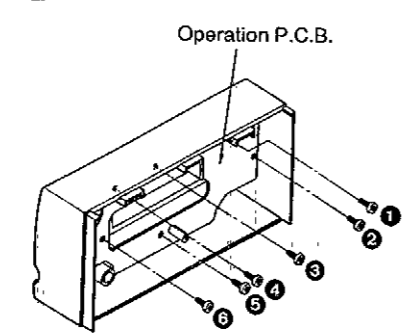
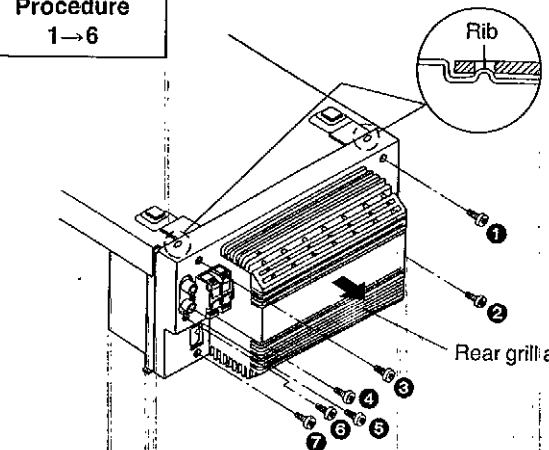
When installing the components horizontally, fold the cable as shown in the figure below.

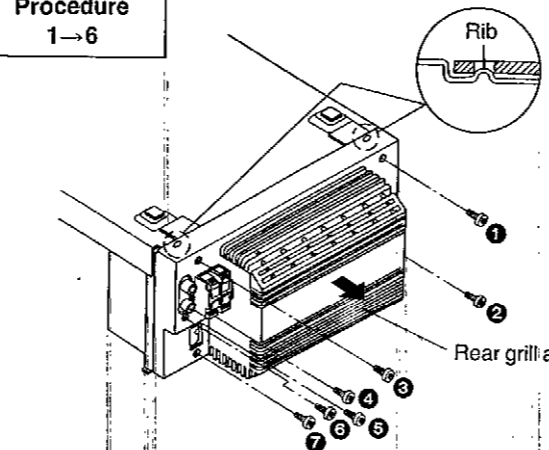
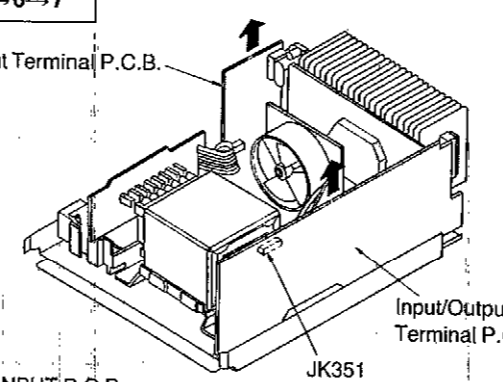
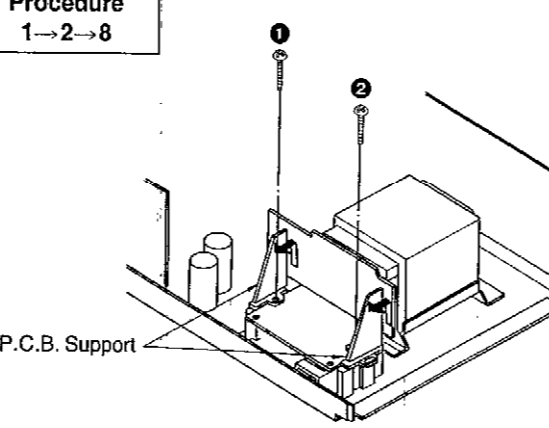
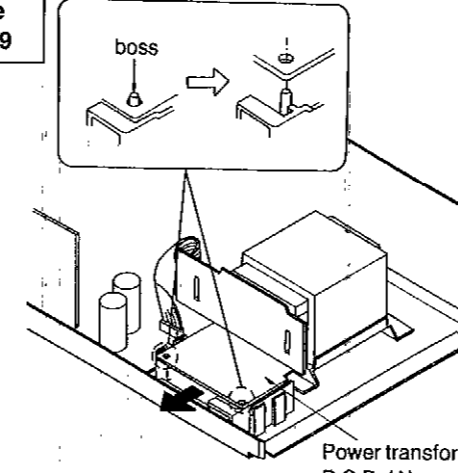
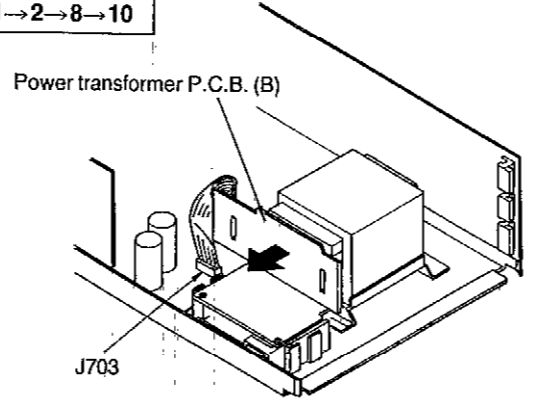
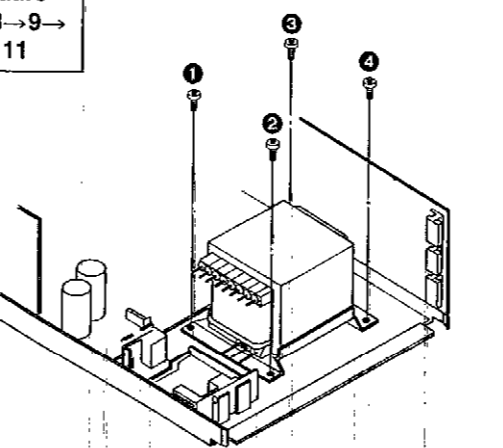


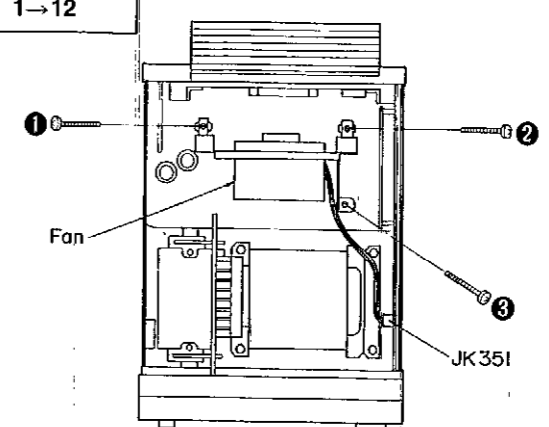
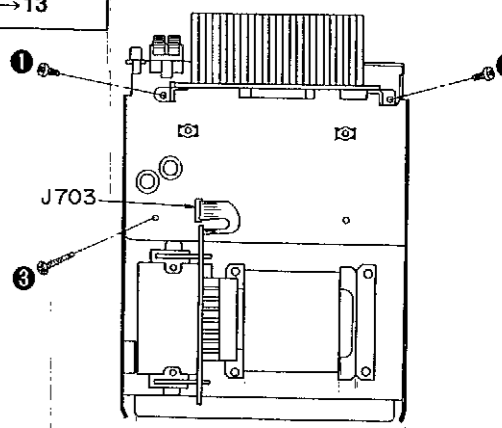
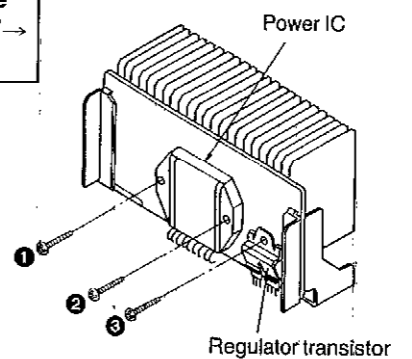
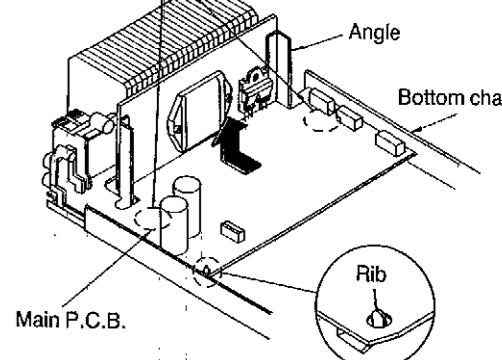
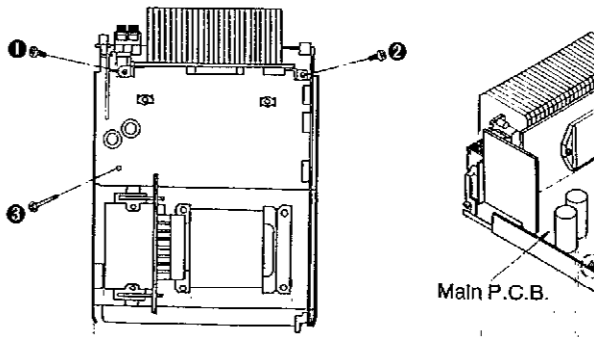
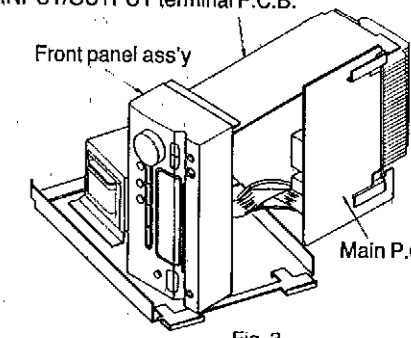
When installing the components vertically, fold the cable as shown in the figure below.

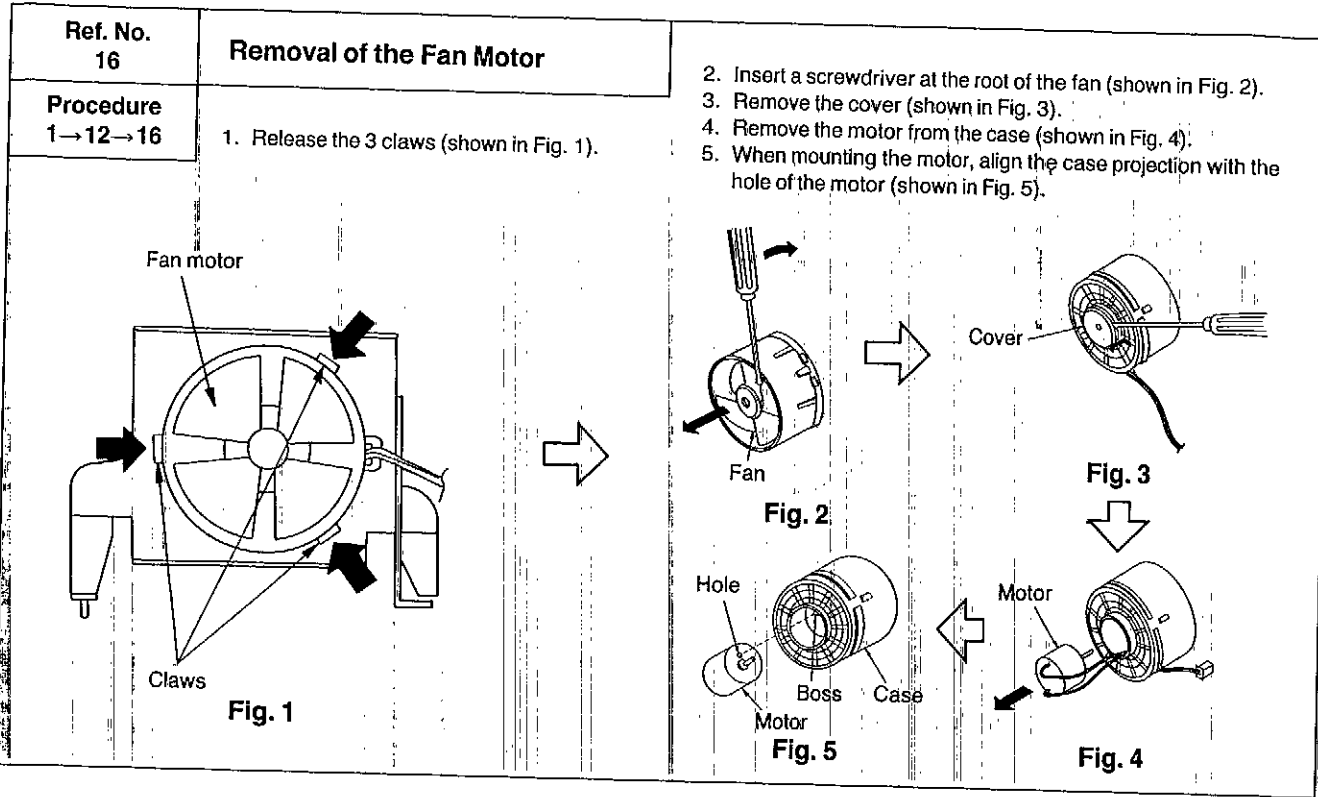


## ■ DISASSEMBLY INSTRUCTIONS

|   |   |
|---|---|
| <p>Ref. No. 1</p> <p>Removal of the Cabinet</p> <p>Procedure 1</p>  <p>● Remove the 4 screws (1~4).</p>  | <p>Ref. No. 2</p> <p>Removal of the Front Panel Ass'y</p> <p>Procedure 1→2</p>  <p>1. Remove the 2 screws (1, 2).<br/>2. Remove the front panel ass'y in the direction of the arrow.</p>  |
| <p>Ref. No. 3</p> <p>Removal of the FL P.C.B.</p> <p>Procedure 1→2→3</p>  <p>1. Pull out the 2 knobs (Volume and Mic knob).<br/>2. Remove the Nut.</p> | <p>Ref. No. 4</p> <p>Removal of the Mic Jack P.C.B. and Headphones Jack P.C.B.</p> <p>Procedure 1→2→3→4</p>  <p>■ Mic Jack P.C.B.<br/>● Remove the Mic P.C.B. in the direction of the arrow ①.<br/>■ Headphones Jack P.C.B.<br/>● Remove the headphones jack P.C.B. in the direction of the arrow ②.</p> |
| <p>Ref. No. 5</p> <p>Removal of the Operation P.C.B.</p> <p>Procedure 1→2→3→5</p>  <p>● Remove the 6 screws (1~6).</p>                              | <p>Ref. No. 6</p> <p>Removal of the Rear Grill Ass'y</p> <p>Procedure 1→6</p>  <p>1. Remove the 7 screws (1~7).<br/>2. Remove the 2 ribs and then remove the rear grill ass'y in the direction of the arrow.</p>   |

|   |  |
|---|--|
| <p>Ref. No. 6</p> <p>Removal of the Rear Grill Ass'y</p> <p>Procedure 1→6</p>  <p>1. Remove the 7 screws (1~7).<br/>2. Remove the 2 ribs and then remove the rear grill ass'y in the direction of the arrow.</p> | <p>Ref. No. 7</p> <p>Removal of the AC Input Terminal P.C.B. and Input/Output Terminal P.C.B.</p> <p>Procedure 1→2→6→7</p>  <p>■ AC INPUT P.C.B.<br/>● Remove the P.C.B. in the direction of the arrow.<br/>■ INPUT/OUTPUT TERMINAL P.C.B.<br/>1. Remove the connector (JK351).<br/>2. Remove the P.C.B. in the direction of the arrow.</p> |
| <p>Ref. No. 8</p> <p>Removal of the P.C.B. support</p> <p>Procedure 1→2→8</p>  <p>1. Remove the 2 screws (1, 2).<br/>2. Remove the 2 support in the direction of the arrow.</p>                                 | <p>Ref. No. 9</p> <p>Removal of the Power Transformer P.C.B. (A)</p> <p>Procedure 1→2→8→9</p>  <p>1. Remove the 2 boss.<br/>2. Remove the P.C.B. in the direction of the arrow.</p>  |
| <p>Ref. No. 10</p> <p>Removal of the Power Transformer P.C.B. (B)</p> <p>Procedure 1→2→8→10</p>  <p>1. Remove the flat cable (J703).<br/>2. Remove the P.C.B. in the direction of the arrow.</p>               | <p>Ref. No. 11</p> <p>Removal of the Power Transformer</p> <p>Procedure 1→2→8→9→10→11</p>  <p>● Remove the 4 screws (1~4).</p>  |

|  |   |
|--|---|
| <p>Ref. No. 12</p> <p>Removal of the Fan</p> <p>Procedure 1→12</p>  <p>1. Remove the connector (JK351).<br/>2. Remove the 3 screws (1~3).</p>   | <p>Ref. No. 13</p> <p>Removal of the Main P.C.B.</p> <p>Procedure 1→2→6→7→13</p>  <p>1. Remove the 3 screws (1~3).</p> <p>■ NOTE<br/>● Insert the projection on the angle into the hole of the bottom chassis and then install the Main P.C.B.</p> |
| <p>Ref. No. 14</p> <p>Removal of the Power IC and Regulator Transistor</p> <p>Procedure 1→2→6→7→13→14</p>  <p>1. Remove the 3 screws (1~3).<br/>2. Unsolder the power IC and regulator transistor.<br/>● When mounting the Power IC or regulator transistor, Apply silicone compound (RFKX0002) to the rear side of power IC or regulator transistor.</p> | <p>Ref. No. 15</p> <p>Check the Main P.C.B.</p> <p>Procedure 1→2→6→15</p>  <p>1. Remove the 3 screws (1~3).<br/>2. Remove the rib and then remove the Main P.C.B. in the direction of the arrow.</p>  |
| <p>Ref. No. 15</p> <p>Check the Main P.C.B.</p> <p>Procedure 1→2→6→15</p>  <p>1. Remove the 3 screws (1~3).<br/>2. Remove the rib and then remove the Main P.C.B. in the direction of the arrow.</p>  | <p>Ref. No. 15</p> <p>Check the Main P.C.B.</p> <p>Procedure 1→2→6→15</p>  <p>3. Reinstall the front panel ass'y to the INPUT/OUTPUT terminal P.C.B.<br/>4. When checking the soldered surface of the main P.C.B. do as shown in the Fig. 3.</p> |



- Notes:**
- S601 : Clock set switch
  - S602 : Select down switch
  - S603 : Select up switch
  - S604 : Timer set switch
  - S605 : Cancel switch
  - S606 : Standby switch
  - S607 : Recall switch
  - S608 : Balance (L) control switch
  - S609 : Balance (R) control switch
  - S610 : BS select switch
  - S611 : Tuner select switch
  - S612 : CD select switch
  - S613 : DAT select switch
  - S614 : Tape select switch
  - S615 : VDP select switch
  - S616 : VCR select switch
  - S618 : S. Loudness switch
  - S619 : Power switch
  - S701 : Voltage select switch in "220 V" position (110 V/127 V/220 V/240 V) for (GC) area only

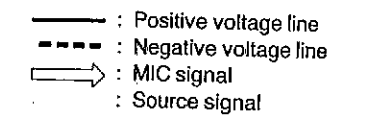
•The supply part number is described alone in the replacement parts list.

| Ref. No.                | Production Parts No. | Supply Parts No. |
|-------------------------|----------------------|------------------|
| IC151<br>IC202<br>IC203 | BA4558FT1            | SV1BA4558F       |
| IC301                   | M5218AL              | M5218L           |

•Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

•Important safety notice:  
Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

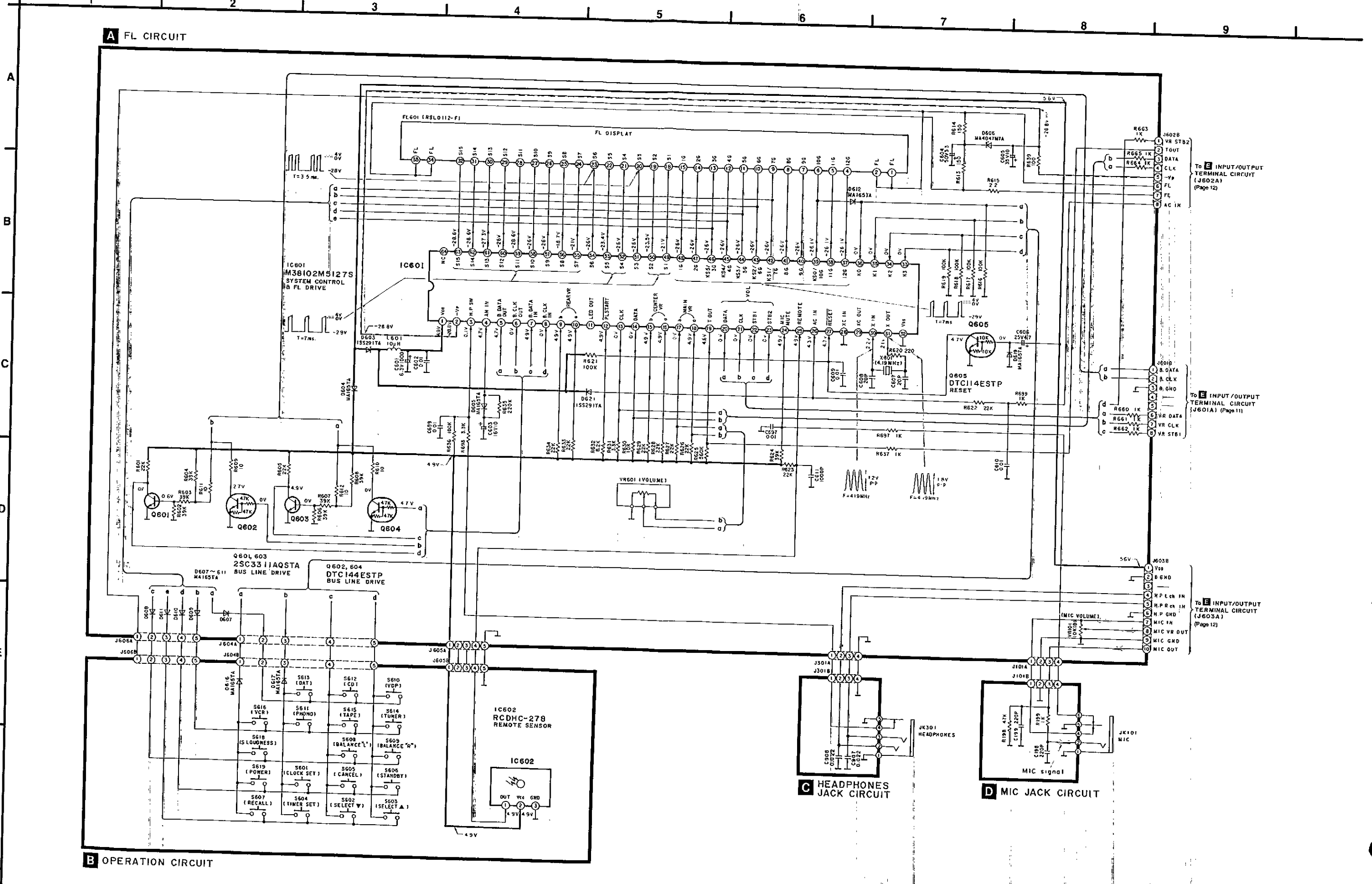
•This schematic diagram may be modified at any time with the development of new technology.



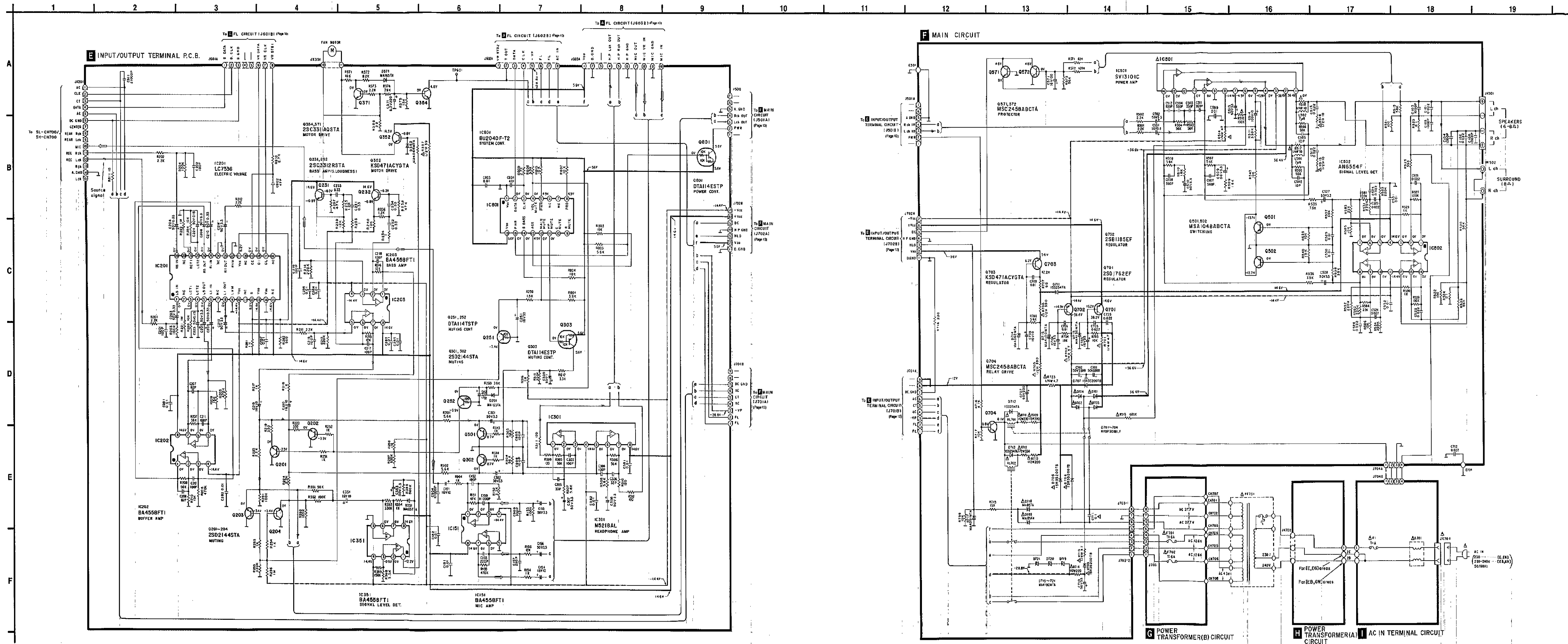
**Caution!**

- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

**SCHEMATIC DIAGRAM (Operation/FL/Headphones circuit)** (Part list on pages 24~27.)

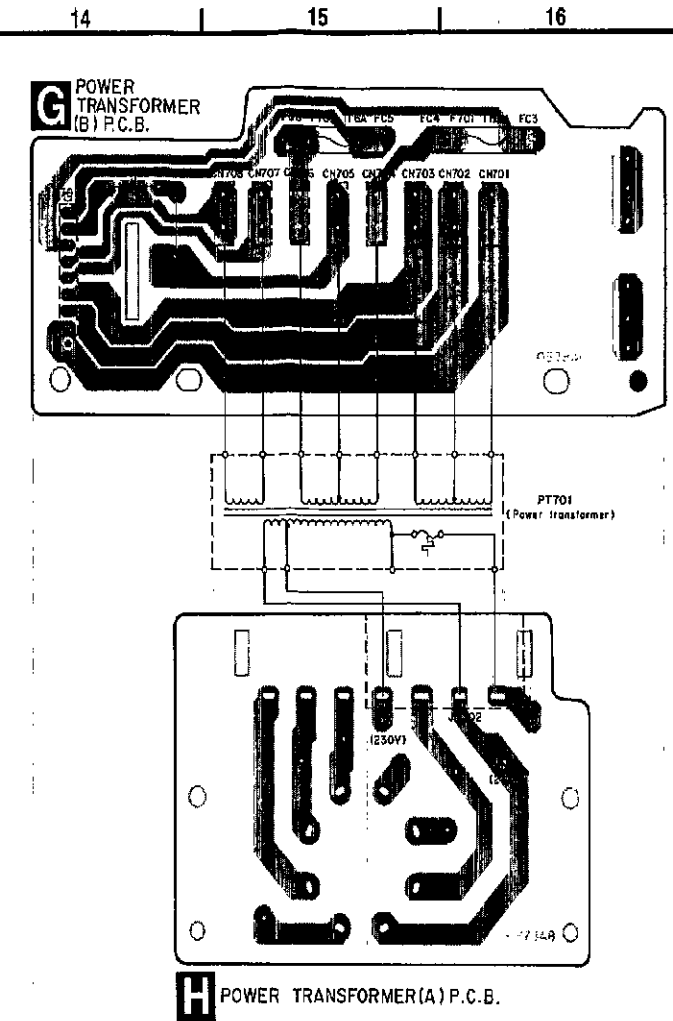
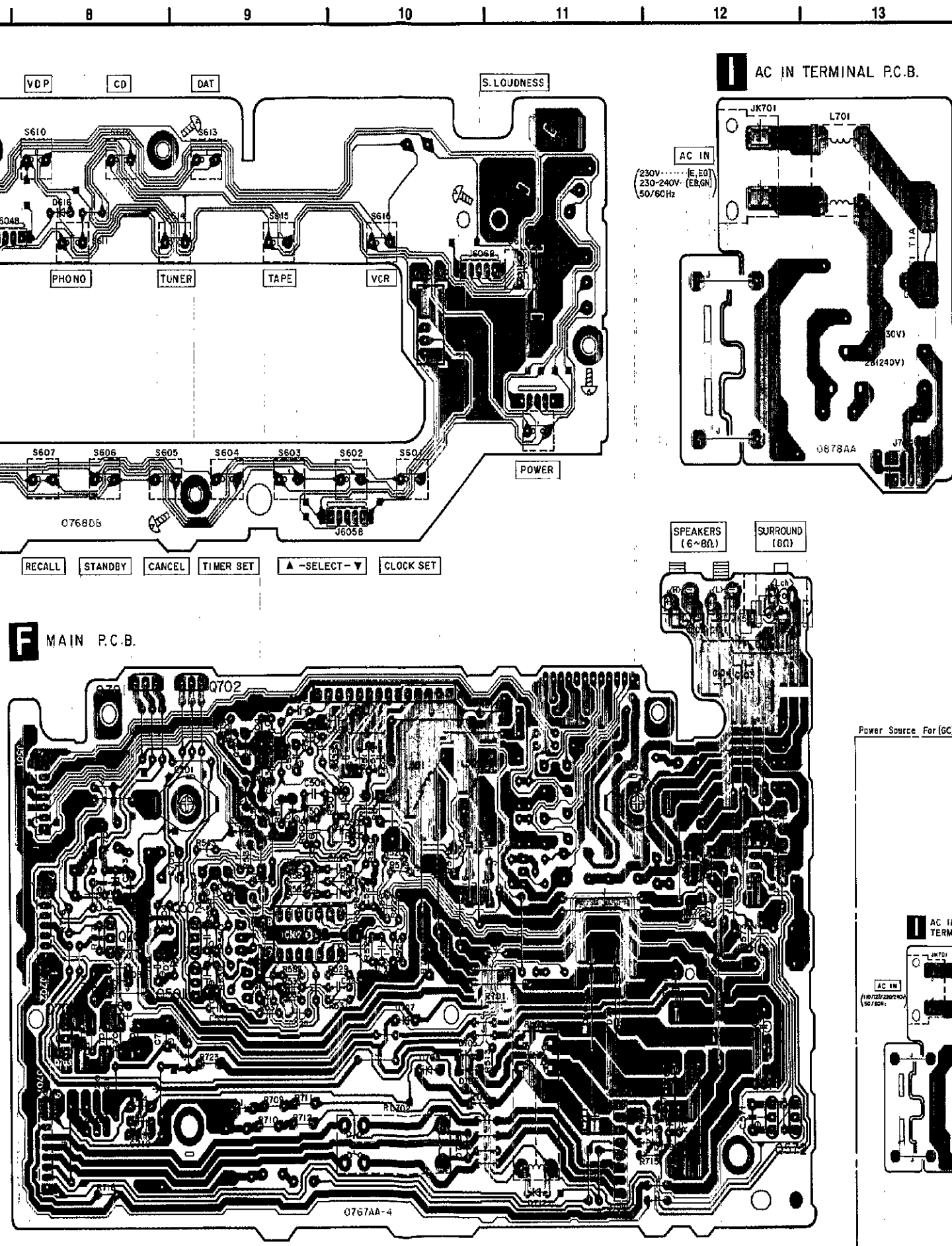
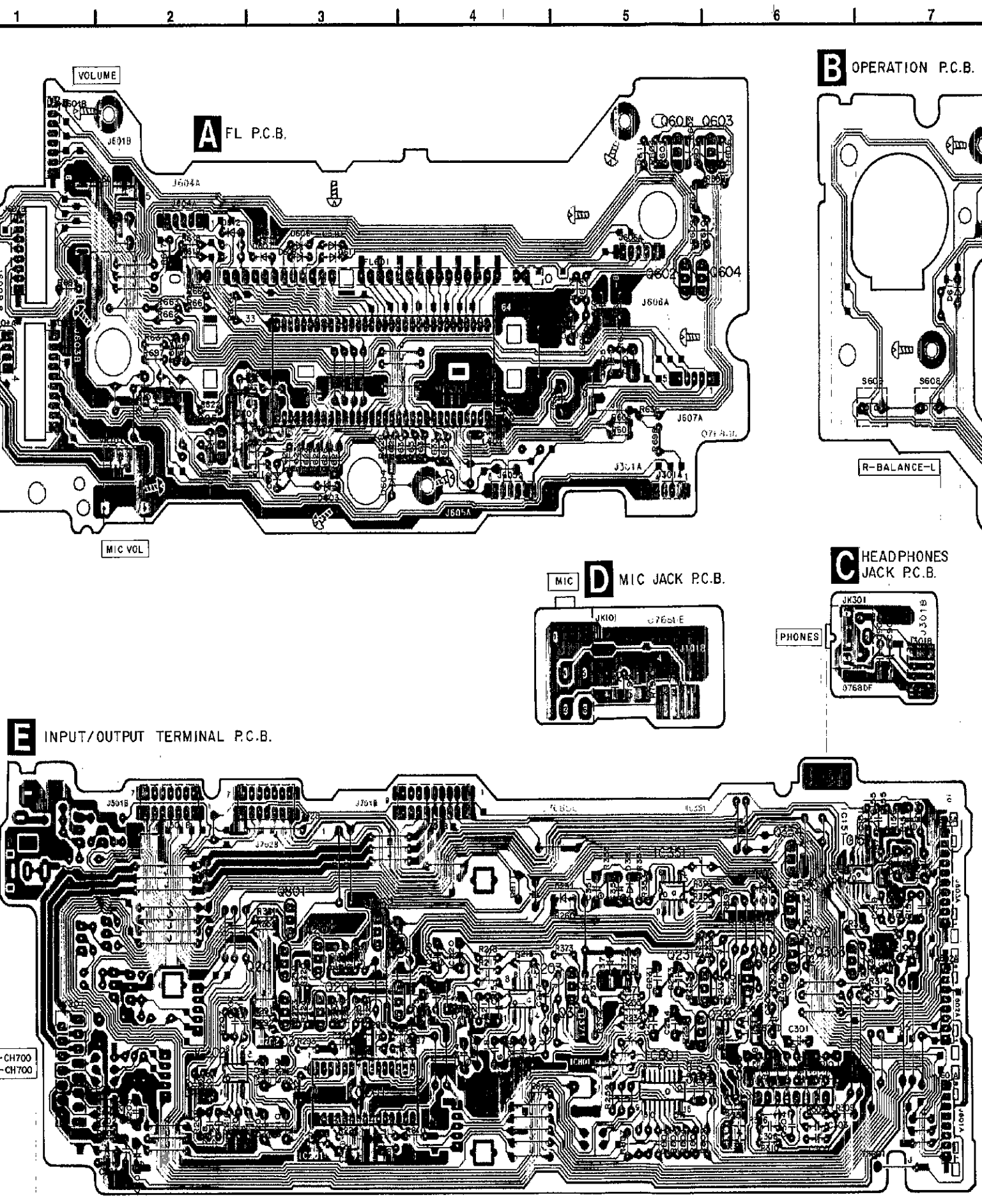


SCHEMATIC DIAGRAM (Input/Output Terminal/Main circuit) (Parts list on pages 24~27.)



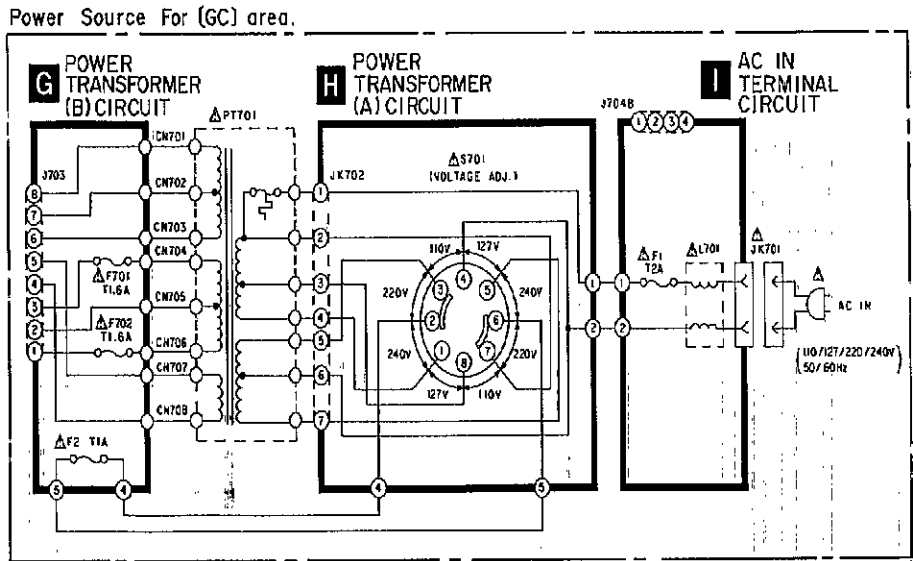
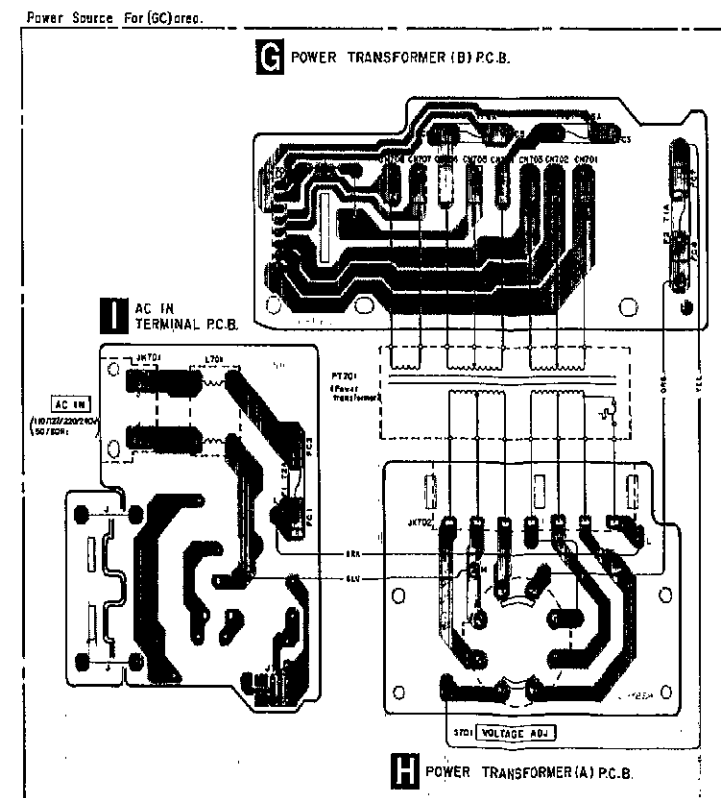


PRINTED CIRCUIT BOARDS



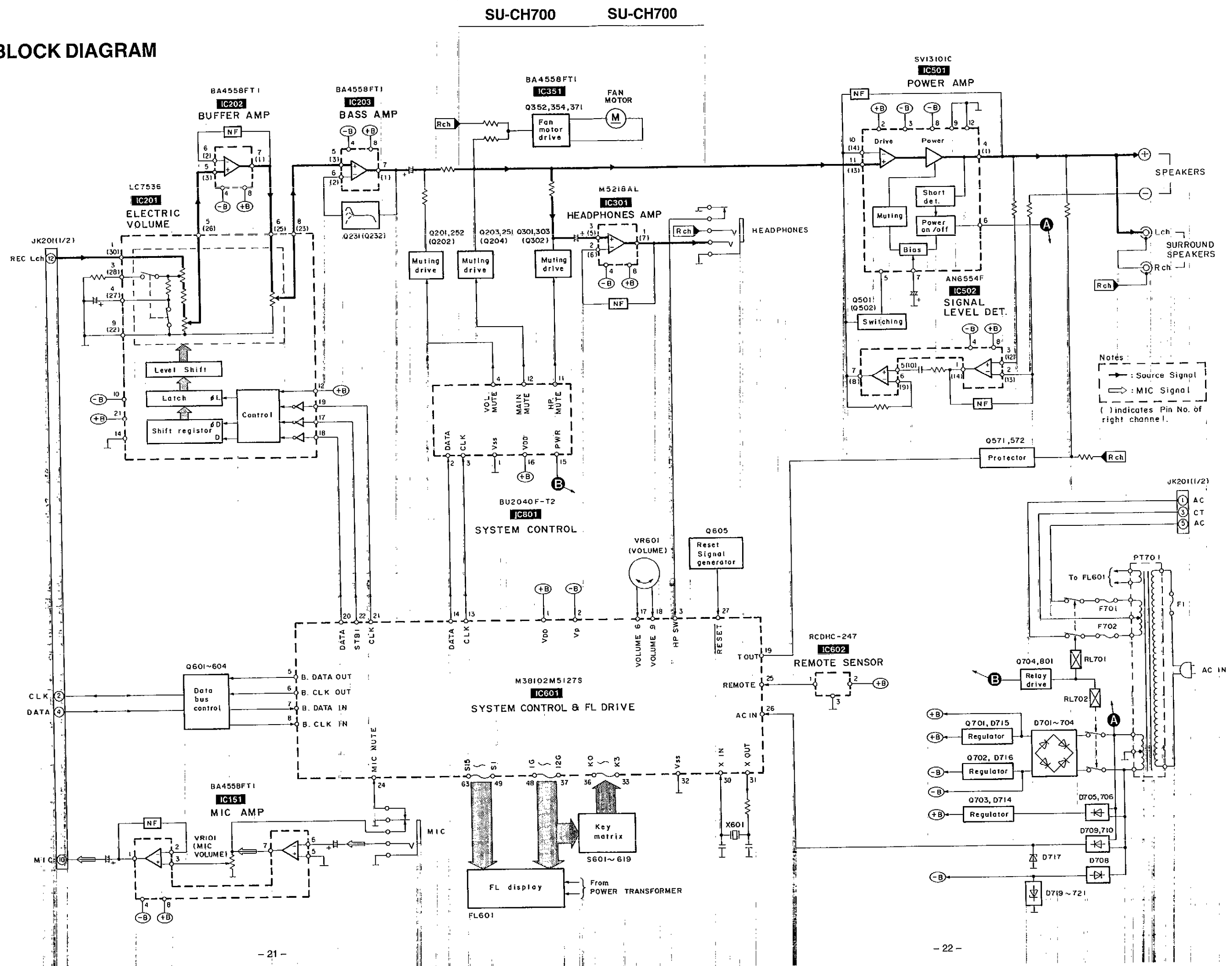
• Terminal guide of IC's, transistors and diodes

|                                   |  |                                 |               |
|-----------------------------------|--|---------------------------------|---------------|
| BA4558FT1<br>                     | BU2040F-T2<br>   | M38102M5127S<br>                | M5218AL<br>   |
| AN6554F 14Pin<br>LC7536 30Pin<br> |  | SVI3101C<br>                    | RCDHC-278<br> |
| KSD471ACYGTA<br>                  | MSA1048ABCTA<br>MSC2458ABCTA<br>2SD2144STA<br>DTA114ESTP<br>DTA114TSTP<br>DTC114ESTP<br>DTC144ESTP<br> | 2SC3311AQSTA<br>2SC3312RSTA<br> |               |
| 2SB1185EF<br>2SD1762EF<br>        | MA165TA<br>MA185TA<br>1SS254TA<br>1SR35200TB<br>   | MA4100MTA<br>MA4150MTA<br>      |               |
|                                   | RVDP300DLF<br>   | 1SS291TA<br>                    |               |





■ BLOCK DIAGRAM



■ FUNCTION OF IC TERMINALS

● IC601 (M38102M5127S)

| Pin No. | Terminal Name   | I/O | Function  |
|---------|-----------------|-----|---|
| 1       | V <sub>DD</sub> | I   | Power supply (+5)   |
| 2       | -VP             | I   | Pull down voltage input   |
| 3       | HPSW            | I   | Headphone output control signal input   |
| 4       | AN IN           | I   | Back-up power input   |
| 5       | B. DATA OUT     | O   | Data base signal output   |
| 6       | B. CLK OUT      | O   |   |
| 7       | B. DATA IN      | I   | Data base signal input  |
| 8       | B. CLK IN       | I   |   |
| 9       | REAR VR b       | I   | Level encoder volume control signal input (Connect to V <sub>DD</sub> , Not used) |
| 10      | REAR VR a       | I   |   |
| 11      | S. BASS         | O   | Not used  |
| 12      | PLSTART         | I/O | Phone mode select signal input/output   |
| 13      | CLK             | O   | Clock signal output for IC801 (BU2040F-T2)  |
| 14      | DATA            | O   | Data signal output for IC801 (BU2040F-T2)   |
| 15      | CENTER VR b     | I   | Level encoder volume control signal input (Connect to V <sub>DD</sub> , Not used) |
| 16      | CENTER VR a     | I   |   |
| 17      | MAIN VR b       | I   | Level encoder volume control signal input   |
| 18      | MAIN VR a       | I   |   |
| 19      | T OUT           | I/O | Clock signal monitor input/output (131.072 kHz)                                   |
| 20      | VOL DATA        | O   | PMW control signal output for electronic volume (IC201 LC7536)                    |
| 21      | VOL CLK         | O   | PMW clock signal output for electronic volume (IC201 LC7536)                      |
| 22      | VOL STB1        | O   | PMW strobe signal output for electronic volume (IC201 LC7536)                     |
| 23      | VOL STB2        | O   |   |
| 24      | MIC MUTE        | I   | Mic muting signal input   |
| 25      | REMOTE          | I   | Remote control receiving signal input   |

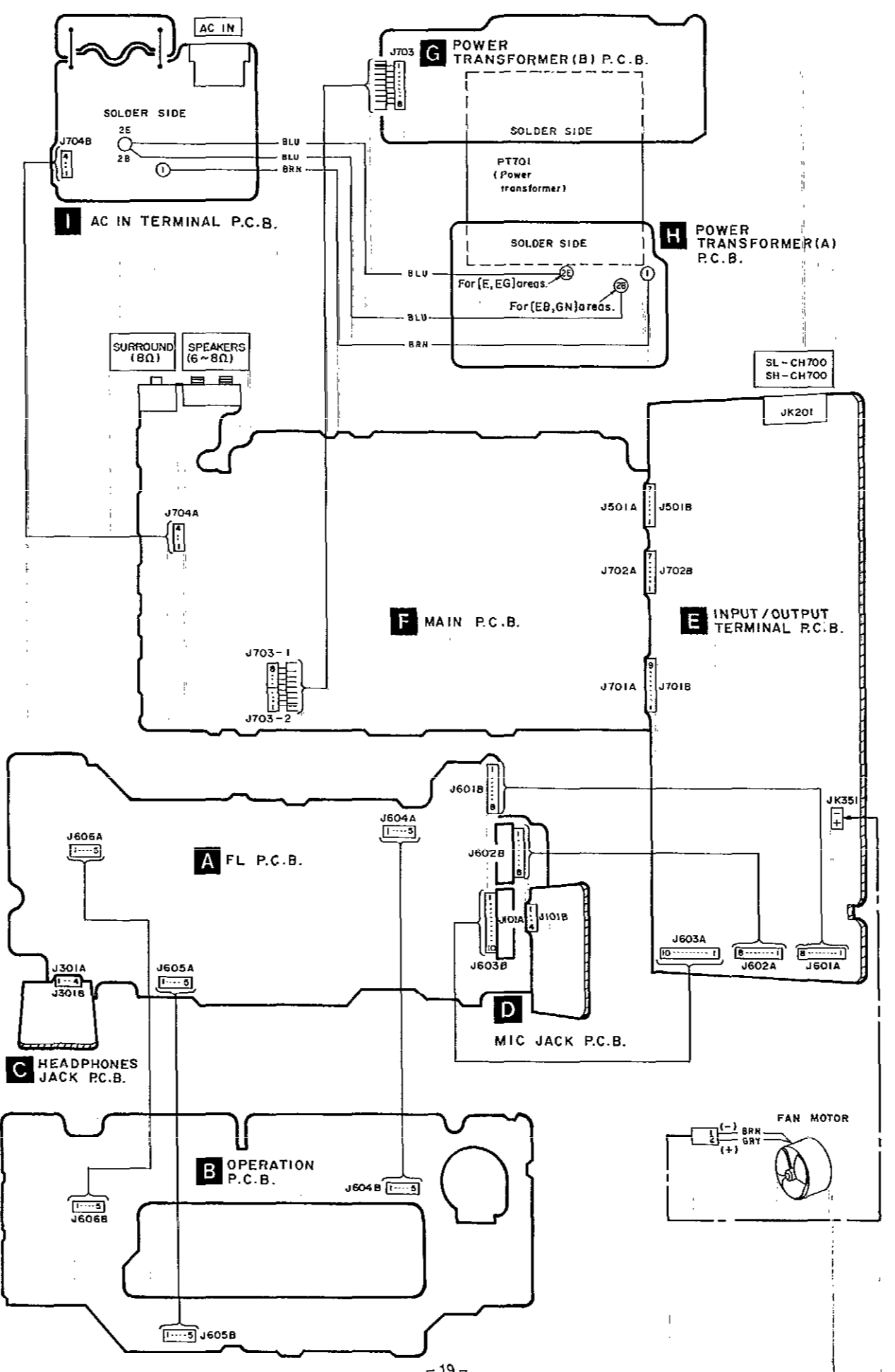
| Pin No. | Terminal Name   | I/O | Function                                      |
|---------|-----------------|-----|---|
| 26      | AC IN           | I   | 50/60 Hz x 2 AC voltage signal input          |
| 27      | RESET           | I   | Reset signal input                            |
| 28      | XC IN           | I   | Not used (open)                               |
| 29      | XC OUT          | O   |   |
| 30      | X IN            | I   | Ceramic Oscillator connection (4.194304 MHz)  |
| 31      | X OUT           | O   |   |
| 32      | V <sub>SS</sub> | I   | GND   |
| 33~36   | K3~K0           | I   | Key control signal input                      |
| 37~41   | 12G~8G          | O   | FL digit signal output                        |
| 42~46   | 7G~3G           | O   | Key control signal and FL digit signal output |
| 47, 48  | 2G, 1G          | O   | FL digit signal output                        |
| 49~63   | S1~S15          | O   | FL segment signal output                      |
| 64      | NC              | -   | Not used (open)                               |

REPLACEMENT PARTS LIST

Notes: \* Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

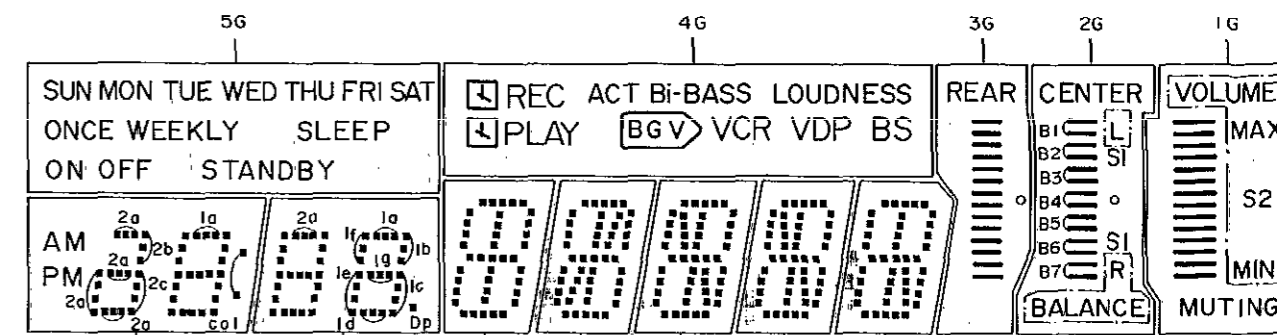
Table with 4 columns: Ref. No., Part No., Part Name & Description, Remarks. Lists various electronic components like diodes, transistors, transformers, and fuses.

WIRING CONNECTION DIAGRAM



DESCRIPTION OF FL PANEL [FL601 (RSL0112-F)]

Grid assignment



Pin connection

Table with 2 columns: Pin No., Connection. Lists pin numbers and their corresponding connections for the FL panel.

Anode connection

Table with 12 columns: Grid (1G-12G) and 15 rows: Pin (P1-P15). Lists anode connections for each pin across different grids.

| Ref. No.  | Part No.     | Part Name & Description | Remarks |
|-----------|--------------|-------------------------|---------|
|           |              | SWITCH(ES)              |         |
| S801      | EVQ21405R    | S. W. CLOCK SET         |         |
| S802      | EVQ21405R    | S. W. SELECT DOWN       |         |
| S603      | EVQ21405R    | S. W. SELECT UP         |         |
| S604      | EVQ21405R    | S. W. TIMER SET         |         |
| S605      | EVQ21405R    | S. W. CANCEL            |         |
| S606      | EVQ21405R    | S. W. STANDBY           |         |
| S607      | EVQ21405R    | S. W. RECALL            |         |
| S608      | EVQ21405R    | S. W. BALANCE (L)       |         |
| S609      | EVQ21405R    | S. W. BALANCE (R)       |         |
| S610      | EVQ21405R    | S. W. BS                |         |
| S611      | EVQ21405R    | S. W. TUNER             |         |
| S612      | EVQ21405R    | S. W. CD                |         |
| S613      | EVQ21405R    | S. W. DAT               |         |
| S614      | EVQ21405R    | S. W. TAPE              |         |
| S615      | EVQ21405R    | S. W. VDP               |         |
| S616      | EVQ21405R    | S. W. VCR               |         |
| S618      | EVQ21405R    | S. W. LOUDNESS          |         |
| S619      | EVQ21405R    | S. W. POWER             |         |
| S701      | ESC37263     | SW. VOLTAGE SELECTOR    | △ (GC)  |
|           |              | CONNECTOR               |         |
| J703-1, 2 | RJS1A66D4    | SOCKET (4P)             |         |
| J101A     | RJT057W004-1 | CONNECTOR (4P)          |         |
| J301A     | RJT057W004-1 | CONNECTOR (4P)          |         |
| J501A     | RJT057W007-1 | CONNECTOR (7P)          |         |
| J601A     | RJU003K008M1 | SOCKET (8P)             |         |
| J602A     | RJU003K008M1 | SOCKET (8P)             |         |
| J603A     | RJU003K010M1 | SOCKET (10P)            |         |
| J604A     | SJT30549BB1  | CONNECTOR (5P)          |         |
| J605A     | SJT30549BB1  | CONNECTOR (5P)          |         |
| J606A     | SJT30549BB1  | CONNECTOR (5P)          |         |
| J701A     | RJT057W009-1 | CONNECTOR (9P)          |         |
| J702A     | RJT057W007-1 | CONNECTOR (7P)          |         |
| J704A     | RJT057W004-1 | CONNECTOR (4P)          |         |
| J101B     | RJU057W004   | SOCKET (4P)             |         |
| J301B     | RJU057W004   | SOCKET (4P)             |         |
| J501B     | RJU057W007   | SOCKET (7P)             |         |
| J601B     | RJT003K008M1 | CONNECTOR (8P)          |         |
| J602B     | RJT003K008M1 | CONNECTOR (8P)          |         |
| J603B     | RJT003K010M1 | CONNECTOR (10P)         |         |
| J604B     | SJS50581BB   | SOCKET (5P)             |         |
| J605B     | SJS50581BB   | SOCKET (5P)             |         |
| J606B     | SJS50581BB   | SOCKET (5P)             |         |
| J701B     | RJU057W009   | SOCKET (9P)             |         |
| J702B     | RJU057W007   | SOCKET (7P)             |         |
| J704B     | RJU057W004   | SOCKET (4P)             |         |
| CN701-708 | RJS1A1101T1  | SOCKET (1P)             |         |

| Ref. No.   | Part No.     | Part Name & Description | Remarks           |
|------------|--------------|-------------------------|-------------------|
|            |              | EARTH TERMINAL(S)       |                   |
| E501       | SNE1004-1    | GND PLATE               |                   |
| E701       | SNE1004-1    | GND PLATE               |                   |
|            |              | FUSE HOLDER(S)          |                   |
| FC1-6      | EYF52BC      | FUSE HOLDER             | △                 |
| FC7, 8     | EYF52BC      | FUSE HOLDER             | △ (GC)            |
|            |              | RELAY (S)               |                   |
| RL701, 702 | SSY134       | RELAY                   | △                 |
|            |              | JACK(S)                 |                   |
| JK101      | RJ65MA02     | MIC JACK                |                   |
| JK201      | RJT055K015-1 | CONNECTOR (15P)         |                   |
| JK301      | RJD7S2YA-C   | HEADPHONE JACK          |                   |
| JK351      | SJT3213      | FAN MOTOR CONNECTOR     |                   |
| JK501      | RJR0054      | SPEAKER TERMINAL        |                   |
| JK502      | SJF3068-6N   | SURROUND SP. TERMINAL   | △ (E, EB, EG, GC) |
| JK701      | SJS9236      | AC INLET                | △ (E, EB, EG, GC) |
| JK701      | SJS916       | AC INLET                | △ (GN)            |
| JK702      | SJS702-1     | CONNECTOR (3P)          | (E, EB, EG, GN)   |

Notes : \* Capacity values are in microfarads ( $\mu$ F) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)  
 \* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) . 1M=1,000K (OHM)

| Ref. No.  | Part No.    | Values & Remarks |
|-----------|-------------|------------------|
|           |             | RESISTORS        |
| R151      | ERDS2TJ473  | 1/4W 47K         |
| R152      | ERDS2TJ332  | 1/4W 3.3K        |
| R153      | ERDS2TJ104  | 1/4W 100K        |
| R154      | ERDS2TJ102  | 1/4W 1K          |
| R155      | ERDS2TJ474  | 1/4W 470K        |
| R156      | ERDS2TJ123  | 1/4W 12K         |
| R198      | ERDS2TJ473  | 1/4W 47K         |
| R199      | ERDS2TJ102  | 1/4W 1K          |
| R201, 202 | ERDS2TJ222  | 1/4W 2.2K        |
| R203, 204 | ERDS2TJ104  | 1/4W 100K        |
| R205, 206 | ERDS2TJ474  | 1/4W 470K        |
| R207, 208 | ERDS2TJ563  | 1/4W 56K         |
| R209, 210 | ERDS2TJ153  | 1/4W 15K         |
| R211, 212 | ERDS2TJ222  | 1/4W 2.2K        |
| R213, 214 | ERDS2TJ224T | 1/4W 220K        |
| R215, 216 | ERDS2TJ123  | 1/4W 12K         |
| R217, 218 | ERDS2TJ102  | 1/4W 1K          |
| R219, 220 | ERDS2TJ331  | 1/4W 330         |
| R221, 222 | ERDS2TJ105T | 1/4W 1M          |
| R223, 224 | ERDS2TJ222  | 1/4W 2.2K        |
| R233, 234 | ERDS2TJ1R0  | 1/4W 1           |
| R235, 236 | ERDS2TJ122  | 1/4W 1.2K        |
| R237, 238 | ERDS2TJ473  | 1/4W 47K         |
| R239, 240 | ERDS2TJ123  | 1/4W 12K         |
| R251-254  | ERDS2TJ102  | 1/4W 1K          |
| R255      | ERDS2TJ334  | 1/4W 330K        |
| R256      | ERDS2TJ105T | 1/4W 1M          |
| R257      | ERDS2TJ334  | 1/4W 330K        |
| R258      | ERDS2TJ105T | 1/4W 1M          |
| R259      | ERDS2TJ152  | 1/4W 1.5K        |
| R260      | ERDS2TJ392T | 1/4W 3.9K        |
| R281      | ERDS2TJ102  | 1/4W 1K          |
| R282      | ERDS2TJ561  | 1/4W 560         |
| R291, 292 | ERDS2TJ104  | 1/4W 100K        |
| R293, 294 | ERDS2TJ103  | 1/4W 10K         |
| R301, 302 | ERDS2TJ562  | 1/4W 5.6K        |
| R303-306  | ERDS2TJ563  | 1/4W 56K         |
| R307, 308 | ERDS2TJ562  | 1/4W 5.6K        |
| R309-312  | ERDS2EJ121  | 1/4W 120         |
| R313, 314 | ERDS2TJ102  | 1/4W 1K          |
| R315      | ERDS2TJ334  | 1/4W 330K        |
| R316      | ERDS2TJ105T | 1/4W 1M          |
| R351      | ERDS2TJ563  | 1/4W 56K         |
| R352      | ERDS2TJ184T | 1/4W 180K        |
| R353      | ERDS2TJ334  | 1/4W 330K        |
| R354      | ERDS2TJ102  | 1/4W 1K          |

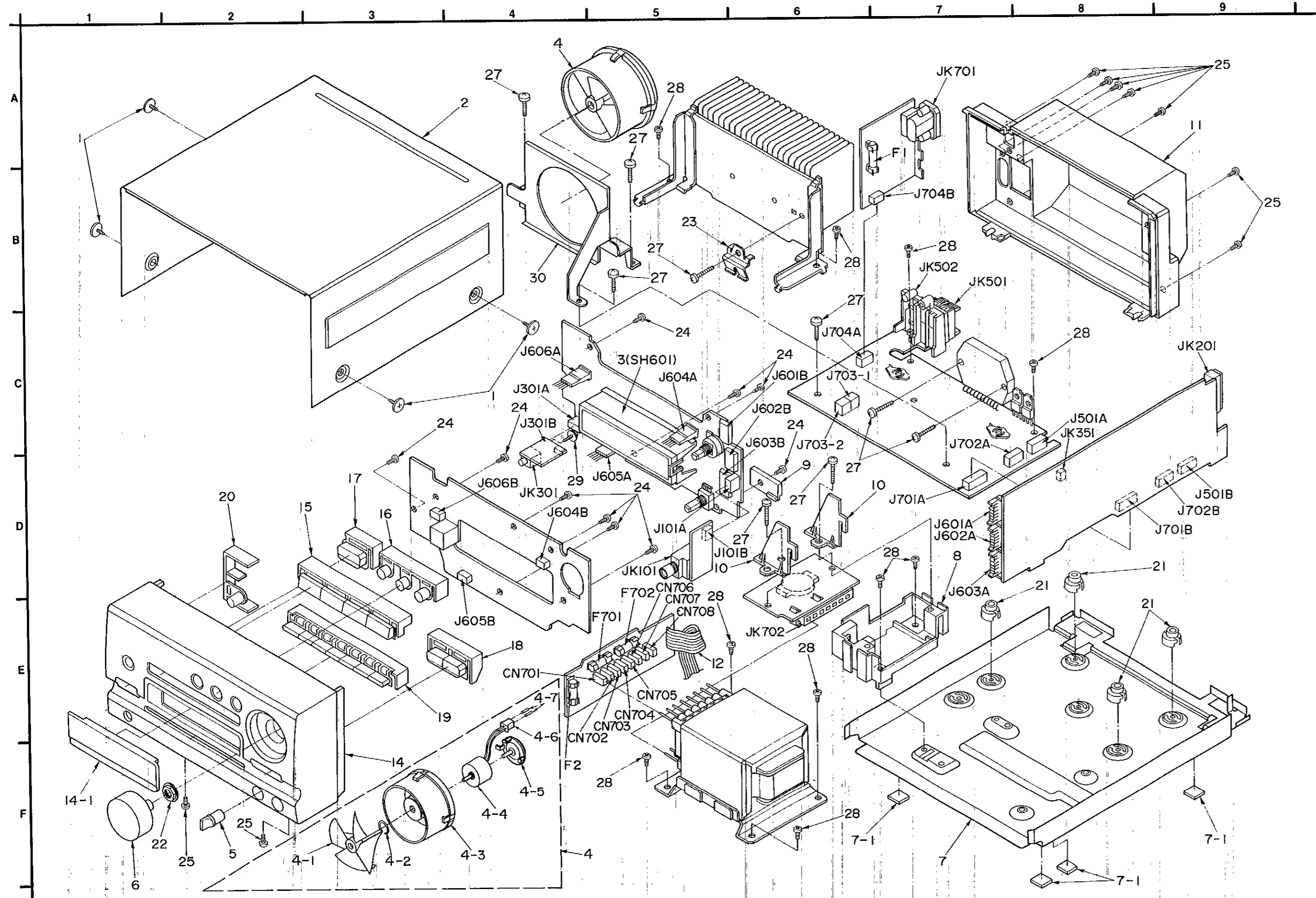
| Ref. No.  | Part No.     | Values & Remarks |
|-----------|--------------|------------------|
| R355      | ERDS2TJ564   | 1/4W 560K        |
| R356      | ERDS2TJ332   | 1/4W 3.3K        |
| R357      | ERDS1FVJ390T | 1/2W 39          |
| R358      | ERDS2TJ220T  | 1/4W 22          |
| R371      | ERDS2TJ103   | 1/4W 10K         |
| R372      | ERDS2TJ823T  | 1/4W 82K         |
| R373      | ERDS2TJ222   | 1/4W 2.2K        |
| R374      | ERDS2TJ393   | 1/4W 39K         |
| R375      | ERDS2TJ153   | 1/4W 15K         |
| R398      | ERDS2TJ332   | 1/4W 3.3K        |
| R399      | ERDS2TJ154   | 1/4W 150K        |
| R501, 502 | ERDS2TJ222   | 1/4W 2.2K        |
| R503-506  | ERDS2TJ563   | 1/4W 56K         |
| R507, 508 | ERDS2TJ562   | 1/4W 5.6K        |
| R509, 510 | ERDS2TJ182   | 1/4W 1.8K        |
| R511      | ERDS2TJ334   | 1/4W 330K        |
| R512      | ERDS2TJ154   | 1/4W 150K △      |
| R513      | ERDS2TJ684   | 1/4W 680K △      |
| R514      | ERD25FVJ470  | 1/4W 47 △        |
| R515, 516 | FRDS1FVJ100T | 1/2W 10 △        |
| R517, 518 | ERD25FVJ100T | 1/4W 10 △        |
| R519, 520 | ERDS2TJ563   | 1/4W 56K         |
| R521, 522 | ERDS2TJ101   | 1/4W 100         |
| R523, 524 | ERP2EXKR10V  | 2W 0.1           |
| R525, 526 | ERDS2TJ563   | 1/4W 56K         |
| R527, 528 | ERDS2TJ104   | 1/4W 100K        |
| R529, 530 | ERDS2TJ102   | 1/4W 1K          |
| R531-534  | ERDS2TJ224T  | 1/4W 220K        |
| R535, 536 | ERDS2TJ52T   | 1/4W 7.5K        |
| R537, 538 | ERDS2TJ393   | 1/4W 39K         |
| R539, 540 | ERDS2TJ103   | 1/4W 10K         |
| R543      | ERDS2TJ103   | 1/4W 10K         |
| R571      | ERDS2TJ823T  | 1/4W 82K         |
| R572      | ERDS2TJ124T  | 1/4W 120K        |
| R573      | ERDS2TJ563   | 1/4W 56K         |
| R581, 582 | ERDS2TJ224T  | 1/4W 220K        |
| R583, 584 | ERDS2TJ223   | 1/4W 22K         |
| R585, 586 | ERDS2TJ103   | 1/4W 10K         |
| R601      | ERDS2TJ223   | 1/4W 22K         |
| R602-604  | ERDS2TJ393   | 1/4W 39K         |
| R605      | ERDS2TJ223   | 1/4W 22K         |
| R606-608  | ERDS2TJ393   | 1/4W 39K         |
| R609-612  | ERDS2TJ100   | 1/4W 10          |
| R613, 614 | ERDS2TJ151   | 1/4W 150         |
| R615      | ERDS2TJ2R2T  | 1/4W 2.2         |
| R616-619  | ERDS2TJ104   | 1/4W 100K        |
| R620      | ERDS2TJ221   | 1/4W 220         |
| R621      | ERDS2TJ104   | 1/4W 100K        |
| R622, 623 | ERDS2TJ223   | 1/4W 22K         |

| Ref. No.  | Part No.     | Values & Remarks |
|-----------|--------------|------------------|
| R624      | ERDS2TJ393   | 1/4W 39K         |
| R625      | ERDS2TJ564   | 1/4W 560K        |
| R626-629  | ERDS2TJ223   | 1/4W 22K         |
| R630      | ERDS2TJ103   | 1/4W 10K         |
| R631      | ERDS2TJ332   | 1/4W 3.3K        |
| R632      | ERDS2TJ822   | 1/4W 8.2K        |
| R633, 634 | ERDS2TJ223   | 1/4W 22K         |
| R635      | ERDS2TJ224T  | 1/4W 220K        |
| R636      | ERDS2TJ104   | 1/4W 100K        |
| R637      | ERDS2TJ102   | 1/4W 1K          |
| R639      | ERDS2TJ101   | 1/4W 100         |
| R660-665  | ERDS2TJ102   | 1/4W 1K          |
| R697      | ERDS2TJ102   | 1/4W 1K          |
| R698      | ERDS2TJ332   | 1/4W 3.3K        |
| R699      | ERDS2TJ102   | 1/4W 1K          |
| R701, 702 | ERD2FVJ4R7T  | 1/4W 4.7 △       |
| R703, 704 | ERDS2TJ103   | 1/4W 10K         |
| R705, 706 | ERDS1FVJ391T | 1/2W 390 △       |
| R707      | ERDS2TJ680T  | 1/4W 68          |
| R708      | ERDS2TJ562   | 1/4W 5.6K        |
| R709, 710 | ERDS1FVJ391T | 1/2W 390 △       |
| R711, 712 | ERDS1FVJ331T | 1/2W 330         |
| R713      | ERD2FVJ4R7T  | 1/4W 4.7 △       |
| R714      | ERDS1FVJ221T | 1/2W 220 △       |
| R715      | ERDS2TJ153   | 1/4W 15K         |
| R716      | ERDS2TJ472   | 1/4W 4.7K        |
| R717      | ERDS2TJ103   | 1/4W 10K         |
| R718      | ERDS2TJ221   | 1/4W 220         |
| R723      | ERD25FVJ4R7T | 1/4W 4.7 △       |
| R799      | ERDS2TJ103   | 1/4W 10K         |
| R801      | ERDS2TJ392T  | 1/4W 3.9K        |
| R803, 804 | ERDS2TJ103   | 1/4W 10K         |
| R805      | ERDS2TJ562   | 1/4W 5.6K        |
| R807      | ERDS2TJ103   | 1/4W 10K         |
| R808      | ERDS2TJ392T  | 1/4W 3.9K        |
| R809, 810 | ERDS2TJ272T  | 1/4W 2.7K        |
| R811      | ERDS2TJ100   | 1/4W 10          |
| R812      | ERDS2TJ332   | 1/4W 3.3K        |
| R813      | ERDS2TJ103   | 1/4W 10K         |
| R904      | ERDS2TJ102   | 1/4W 1K          |

| Ref. No.  | Part No.     | Values & Remarks |
|-----------|--------------|------------------|
|           |              | CAPACITORS       |
| C101, 102 | ECBT1E223ZF  | 25V 0.022U       |
| C103-106  | ECBT1H102K85 | 50V 1000P        |
| C151      | ECEA1CKA100B | 16V 10U          |
| C152      | ECBT1H181K85 | 50V 180P         |
| C153      | ECEA1HKA3R3B | 50V 3.3U         |
| C154      | ECEA1CKA100B | 16V 10U          |

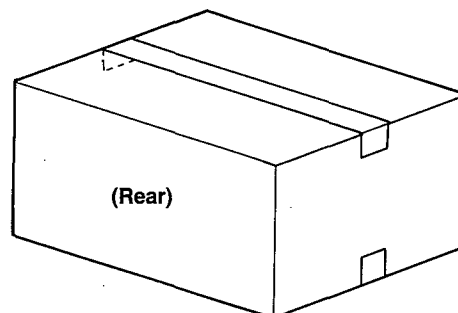
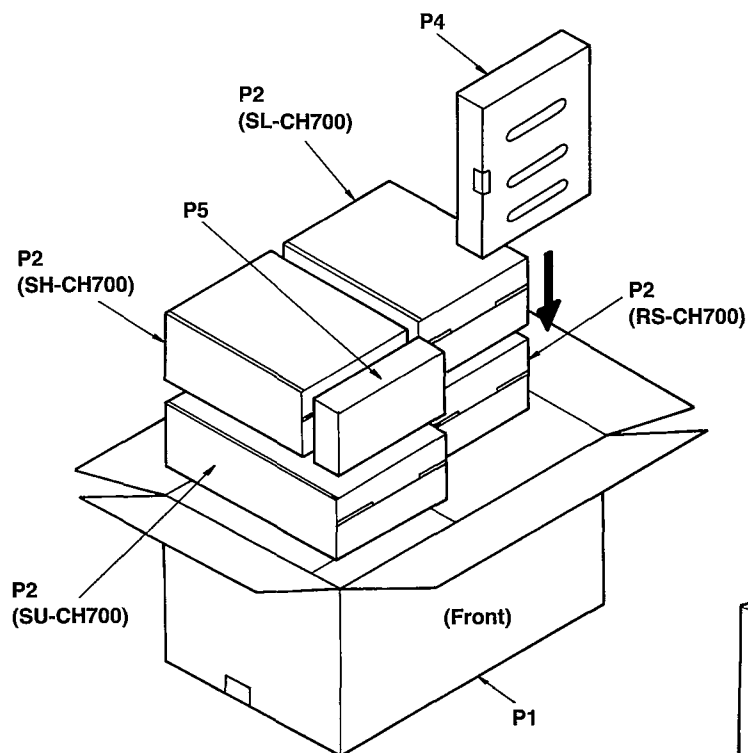
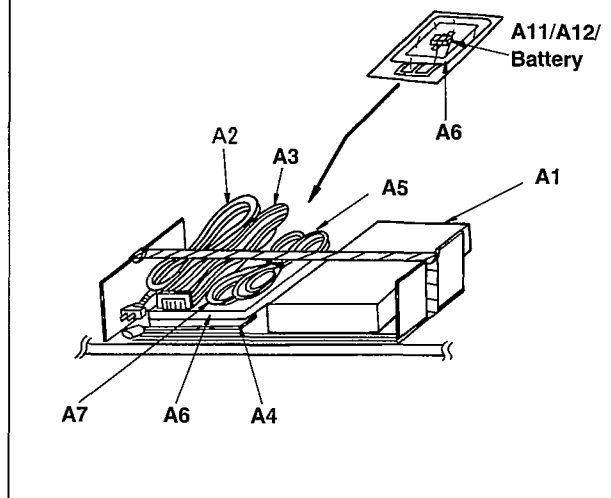
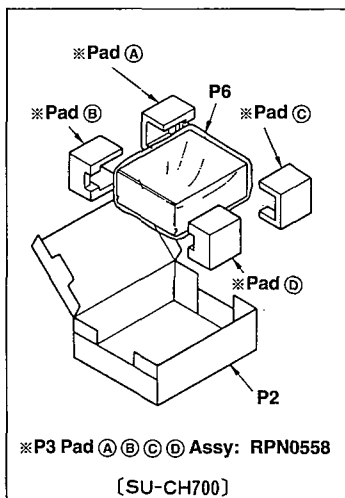
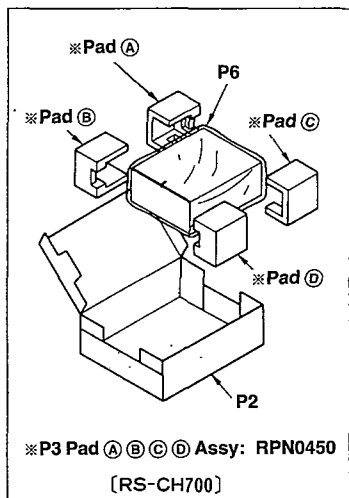
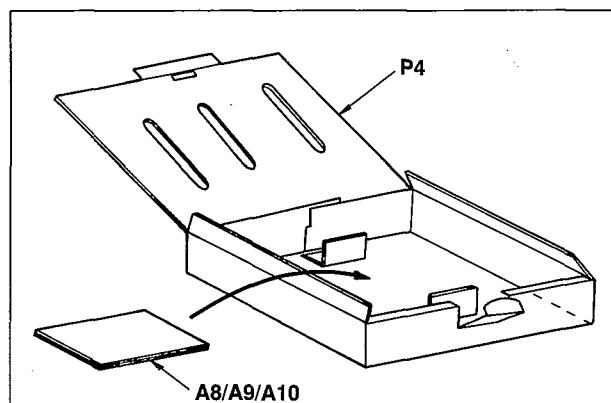
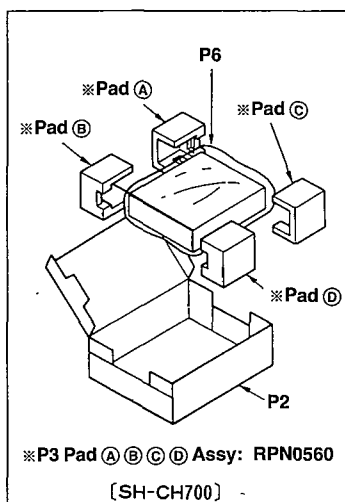
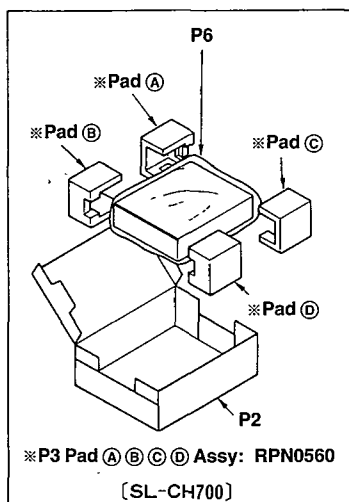
| Ref. No.  | Part No.     | Values & Remarks |
|-----------|--------------|------------------|
| C155      | ECBT1H221K85 | 50V 220P         |
| C156      | ECEA1HKA3R3B | 50V 3.3U         |
| C157      | ECBT1H221K85 | 50V 220P         |
| C159      | ECBT1H102K85 | 50V 1000P        |
| C181, 182 | ECBT1E1032F  | 25V 0.01U        |
| C198, 199 | ECBT1H221K85 | 50V 220P         |
| C201, 202 | ECBT1H101K85 | 50V 100P         |
| C203, 204 | ECEA1HKA3R3B | 50V 0.33U        |
| C205, 206 | ECEA1HKA3R3B | 50V 3.3U         |
| C207, 208 | ECBT1H820K85 | 50V 82P          |
| C209, 210 | ECEA1HKA3R3B | 50V 0.33U        |
| C211, 212 | ECBT1H101K85 | 50V 100P         |
| C213, 214 | ECEA1HKA3R3B | 50V 3.3U         |
| C215-218  | ECBT1H101K85 | 50V 100P         |
| C219, 220 | ECEA1CKA100B | 16V 10U          |
| C223, 224 | ECEA1HKA15B  | 50V 0.15U        |
| C231-234  | ECQV1H34JZ3  | 50V 0.33U        |
| C251      | ECEA1CKA330B | 16V 33U          |
| C252      | ECEA1CKA100B | 16V 10U          |
| C281-287  | ECBT1E1032F  | 25V 0.01U        |
| C301, 302 | ECEA1HKA3R3B | 50V 3.3U         |
| C303, 304 | ECBT1H101K85 | 50V 100P         |
| C305, 306 | ECBT1H330J5  | 50V 33P          |
| C307, 308 | ECEA1HKA3R3B | 50V 3.3U         |
| C309      | ECEA1HKA100B | 50V 1U           |
| C351      | ECEA1CKA100B | 16V 10U          |
| C353      | ECEA1HKA3R3B | 50V 3.3U         |
| C371      | ECEA0JKA221B | 6.3V 220U        |
| C381, 382 | ECBT1E1032F  | 25V 0.01U        |
| C501, 502 | ECA1HAP3R3B  | 50V 3.3U         |
| C503, 504 | ECBT1H331K85 | 50V 330P         |
| C505, 506 | ECBT1H100J5  | 50V 10P          |
| C507, 508 | ECBT1H561K85 | 50V 560P         |
| C509, 510 | ECA1HAP3R3B  | 50V 3.3U         |
| C511, 512 | ECBT1H821K85 | 50V 820P         |
| C513      | ECA1HAP330B  | 50V 33U          |
| C514      | ECA2AAPI00B  | 100V 10U         |
| C515, 516 | ECBT1E223ZF  | 25V 0.022U       |
| C521-526  | ECBT0J223MS5 | 6.3V 0.022U      |
| C527      |              |                  |

■ CABINET PARTS LOCATION



| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No.     | Part Name & Description     | Remarks         |
|----------|----------|-------------------------|---------|----------|--------------|-----------------------------|-----------------|
|          |          | CABINET PARTS           |         | P2       | RPG1070      | PACKING CASE (DECK)         |                 |
|          |          |                         |         | P2       | RPG1071      | PACKING CASE (CD/PROCESSOR) |                 |
|          |          |                         |         | P3       | RPN0558      | PAD (AMPLIFIER)             |                 |
|          |          |                         |         | P3       | RPN0450      | PAD (DECK)                  |                 |
|          |          |                         |         | P3       | RPN0560      | PAD (CD/PROCESSOR)          |                 |
|          |          |                         |         | P4       | RPOF0029     | ACCESSORY BOX               |                 |
|          |          |                         |         | P5       | RPQ0194      | SPACER                      |                 |
|          |          |                         |         | P6       | XZB45X50A01Z | PROTECTION COVER            |                 |
|          |          |                         |         |          |              | ACCESSORIES                 |                 |
|          |          |                         |         | A1       | RAK-SC514W   | REMOTE CONTROLLER           |                 |
|          |          |                         |         | A1-1     | RRK0020-K    | BATTERY COVER               |                 |
|          |          |                         |         | A2       | RJA0019-1K   | POWER CORD, AC              | △ (E, EG)       |
|          |          |                         |         | A2       | SJA173       | POWER CORD, AC              | △ (GN)          |
|          |          |                         |         | A2       | SJA193       | POWER CORD, AC              | △ (EB)          |
|          |          |                         |         | A2       | RJA0004      | POWER CORD, AC              | △ (GC)          |
|          |          |                         |         | A3       | REXD402      | FLAT CABLE                  | (E, EB, EG, GN) |
|          |          |                         |         | 7-1      | RRK0043      | FOOT                        |                 |
|          |          |                         |         | A4       | SJP2281      | OPTICAL CABLE               |                 |
|          |          |                         |         | A5       | SNXS257M     | SPEAKE CORD                 |                 |
|          |          |                         |         | A6       | SPB1163T     | AM LOOP ANTENNA             |                 |
|          |          |                         |         | A6-1     | SMA233-1M    | ANTENNA HOLDER              |                 |
|          |          |                         |         | A6-2     | XTN3+10AFZ   | SCREW                       |                 |
|          |          |                         |         | A7       | RSAD007      | FM ANTENNA                  | (E, EB, EG)     |
|          |          |                         |         | A7       | RSAD006      | FM ANTENNA                  | (GC, GN)        |
|          |          |                         |         | A8       | RQAD013      | WARRANTY CARD               | (E, EB, EG)     |
|          |          |                         |         | A8       | RQX74332A    | WARRANTY CARD               | (GN)            |
|          |          |                         |         | A9       | RQCB0169     | SERVICENTOR LIST            |                 |
|          |          |                         |         | A10      | RFKSUCH700EK | INST. MANUAL                | (E)             |
|          |          |                         |         | A10      | RQT1359-B    | INST. MANUAL                | (EB, GN)        |
|          |          |                         |         | A10      | RQT1360-D    | INST. MANUAL                | (EG)            |
|          |          |                         |         | A10      | RQT1367-G    | INST. MANUAL                | (GC)            |
|          |          |                         |         | A11      | SJP9009      | ATTACHMENT PLUG             | (EB)            |
|          |          |                         |         | A12      | SJP9215      | AC PLUG ADAPTOR             | △ (GC)          |
|          |          |                         |         |          |              | PACKING MATERIALS           |                 |
|          |          |                         |         | P1       | RPG1119      | PACKING CASE (SYSTEM)       | (E)             |
|          |          |                         |         | P1       | RPG1146      | PACKING CASE (SYSTEM)       | (GN)            |
|          |          |                         |         | P1       | RPG1123      | PACKING CASE (SYSTEM)       | (EB)            |
|          |          |                         |         | P1       | RPG1124      | PACKING CASE (SYSTEM)       | (EG)            |
|          |          |                         |         | P1       | RPG1147      | PACKING CASE (SYSTEM)       | (GC)            |
|          |          |                         |         | P2       | RPG1069      | PACKING (AMPLIFIER)         |                 |

# PACKAGING



16574