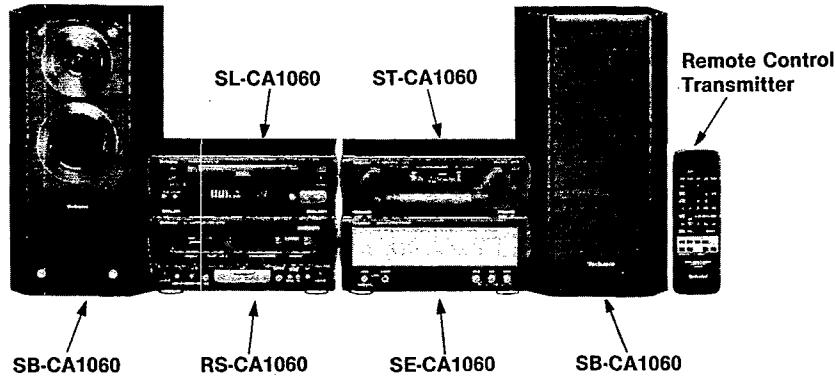


# Service Manual

Stereo Amplifier

Amplifier

SE-CA1060



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

Colour

(K) ... Black Type

Area

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

System: SC-CA1060

## ■ SPECIFICATIONS

### ■ POWER AMPLIFIER

|  |                |
|--|----------------|
| Power output                           |                |
| DIN 1 kHz, THD 1%, both channel driven | 2 × 40 W (6 Ω) |
| Total harmonic distortion              |                |
| Rated power at 1 kHz                   | 0.9% (6 Ω)     |
| Half power at 1 kHz                    | 0.009% (6 Ω)   |
| Load impedance                         |                |
| MAIN                                   | 6–8 Ω          |
| S/N (rated power)                      |                |
| MAIN                                   | 90 dB          |
| Tone                                   |                |
| BASS                                   | 80 Hz (±6 dB)  |
| TREBLE                                 | 20 kHz (±6 dB) |
| V.BASS                                 | 60 Hz (0–8 dB) |

### ■ General

|                              |                                |
|------------------------------|--------------------------------|
| Power consumption            | 165 W                          |
| Power supply                 |                                |
| [For (E, EG) areas.]         | 230 V, AC 50/60 Hz             |
| [For (EB, GN) areas.]        | 230–240 V, AC 50/60 Hz         |
| [For (GC) area.]             | 110/127/220/240 V, AC 50/60 Hz |
| Dimensions (W × H × D)       | 280 × 118.5 × 331.5 mm         |
| Weight                       |                                |
| [For (E, EB, EG, GN) areas.] | 4.5 kg                         |
| [For (GC) area.]             | 4.7 kg                         |

### Notes:

- Design and specifications are subject to change without notice. Weight and dimensions are approximate.
- Total harmonic distortions is measured by the digital spectrum analyzer.

| System    | Stereo Tuner | Compact Disc Player | Stereo Amplifier | Cassette Deck | Speakers   |
|-----------|--------------|---------------------|------------------|---------------|------------|
| SC-CA1060 | ST-CA1060    | SL-CA1060           | SE-CA1060        | RS-CA1060     | *SB-CA1060 |

\*Made in PAES.

# Technics®

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|--|------|---------------------------------|------------|
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**Note:** Refer to the placement Installation and Connections and Concerning the remote control and Quick referenc of remote control operation of Service manual for Model No. ST-CA1060 (E, EG), Order No. AD9406153C2.

## PROTECTION CIRCUITRY

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

- No sound is heard when the power is turned 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 the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

**Note:**

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

## BEFORE REPAIR AND ADJUSTMENT

Disconnect AC power, Discharge both Power Supply Capacitors C701 and C702 through a 10Ω, 5W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may distroy solid state devices. After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

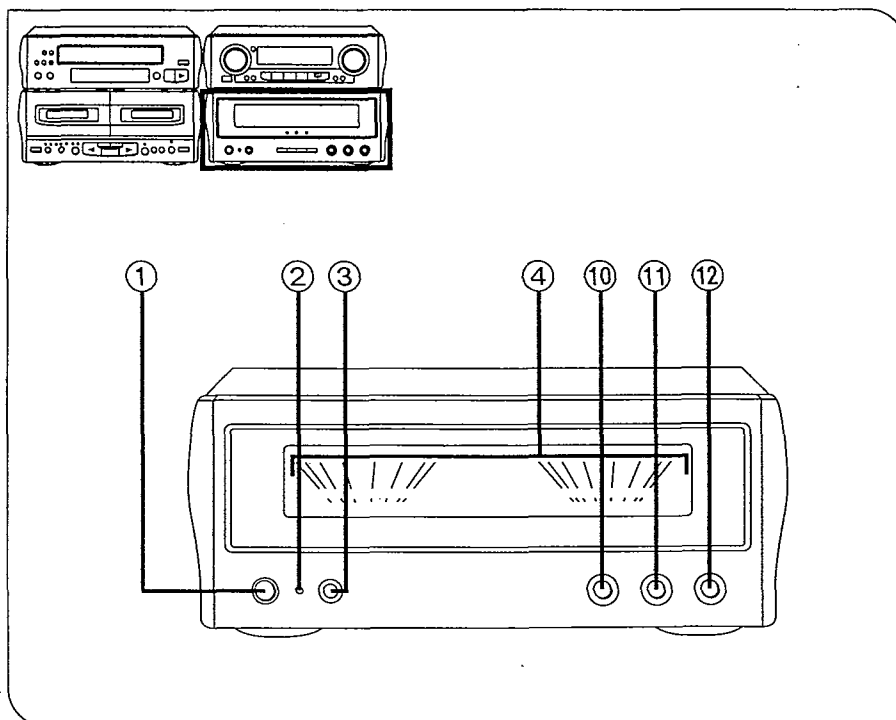
Current consumption at 50Hz/60Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230V/240VV/110-127V/220-240V.

| Power supply voltage     | AC 230V |          | AC 240V |          | AC 110-127V |           | AC 220-240V |          |
|--------------------------|---------|----------|---------|----------|-------------|-----------|-------------|----------|
|                          | 50Hz    | 60~180mA | 50Hz    | 50~170mA | 50Hz        | 100~360mA | 50Hz        | 50~180mA |
| Consumed current 50/60Hz | 60Hz    | 48~144mA | 60Hz    | 40~136mA | 60Hz        | 80~288mA  | 60Hz        | 40~144mA |

## LOCATION OF CONTROLS

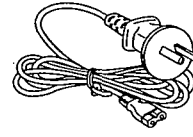
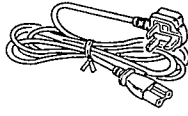
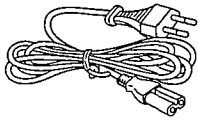
### Stereo amplifier section

- ① Power "STANDBY  $\odot$ /ON" switch  
(POWER, STANDBY  $\odot$ /ON)  
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ② Standby indicator (STANDBY)  
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
- ③ Headphones jack
- ④ Output power meters
- ⑩ S. BASS control
- ⑪ BASS control
- ⑫ TREBLE control

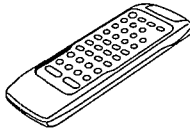


## ACCESSORIES

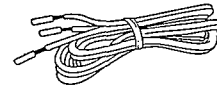
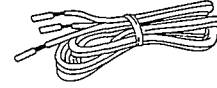
AC power supply cord ..... 1 pc.  
 [RJA0019-2K (E, EG, GC)] [VJA0733 (EB)] [RJA0036-K (GN)]



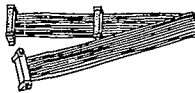
Remote control transmitter ..... 1 pc.  
 (RAK-CH143WH)



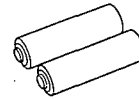
Speaker cords ..... 2 pcs.  
 (REE0393)



Flat cable (long) ..... 1 pc.  
 (REX0511)



Batteries for remote control transmitter ..... 2 pcs.  
 (UM-4, "AAA", R03)



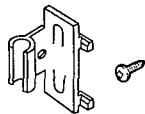
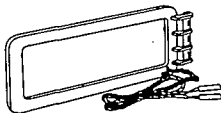
Flat cable (short) ..... 1 pc.  
 (REX0608)



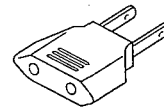
Attachment plug ..... 1 pc.  
 [SJP9009 (EB)]



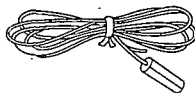
AM loop antenna (RSA0012) ..... 1 pc.  
 • Antenna holder (RMA0244) ..... 1 pc.  
 • Screw (XTN3+12AFZ) ..... 1 pc.



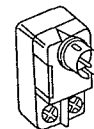
Power plug adaptor ..... 1 pc.  
 [SJP5213-1 (GC)]



FM indoor antenna ..... 1 pc.  
 (RSA0007)



Antenna plug ..... 1 pc.  
 [RFE0014 (GC, GN)]



## ■ OPERATION CHECKS AND MAIN COMPONENT REPLACEMENT PROCEDURES

### NOTE

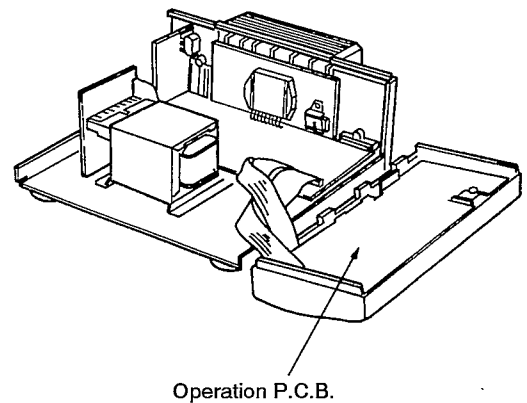
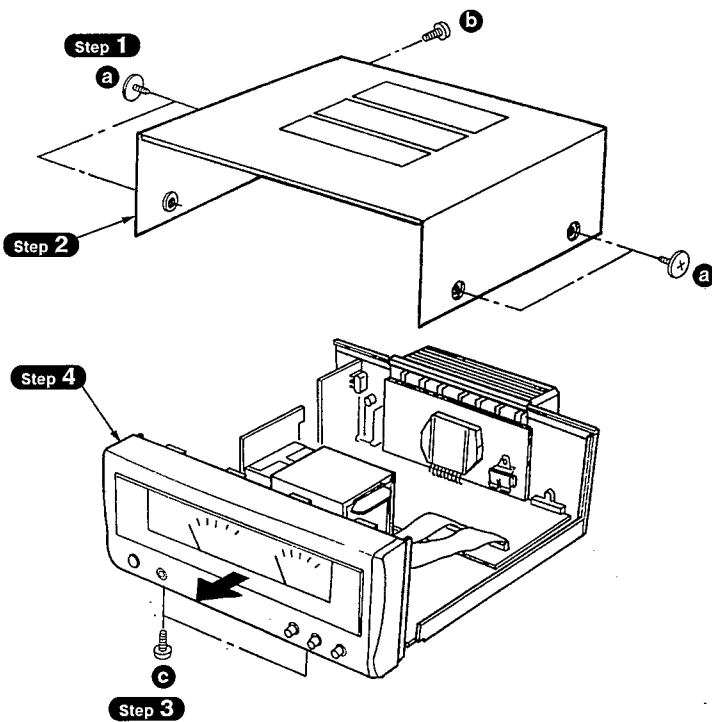
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Illustrated screws are equivalent to actual size.
5. Refer the parts No. on the page of "Main component Replacement Procedures", if necessary.

### ● Contents

|  |       |
|--|-------|
| •Checking Procedure for each P.C.B.                            | page. |
| 1. Checking for the operation P.C.B. ....                      | 4.    |
| 2. Checking for the main P.C.B. ....                           | 5.    |
| •Main Component Replacement Procedures                         |       |
| 1. Replacement for the power IC and regulator transistor ..... | 5.    |

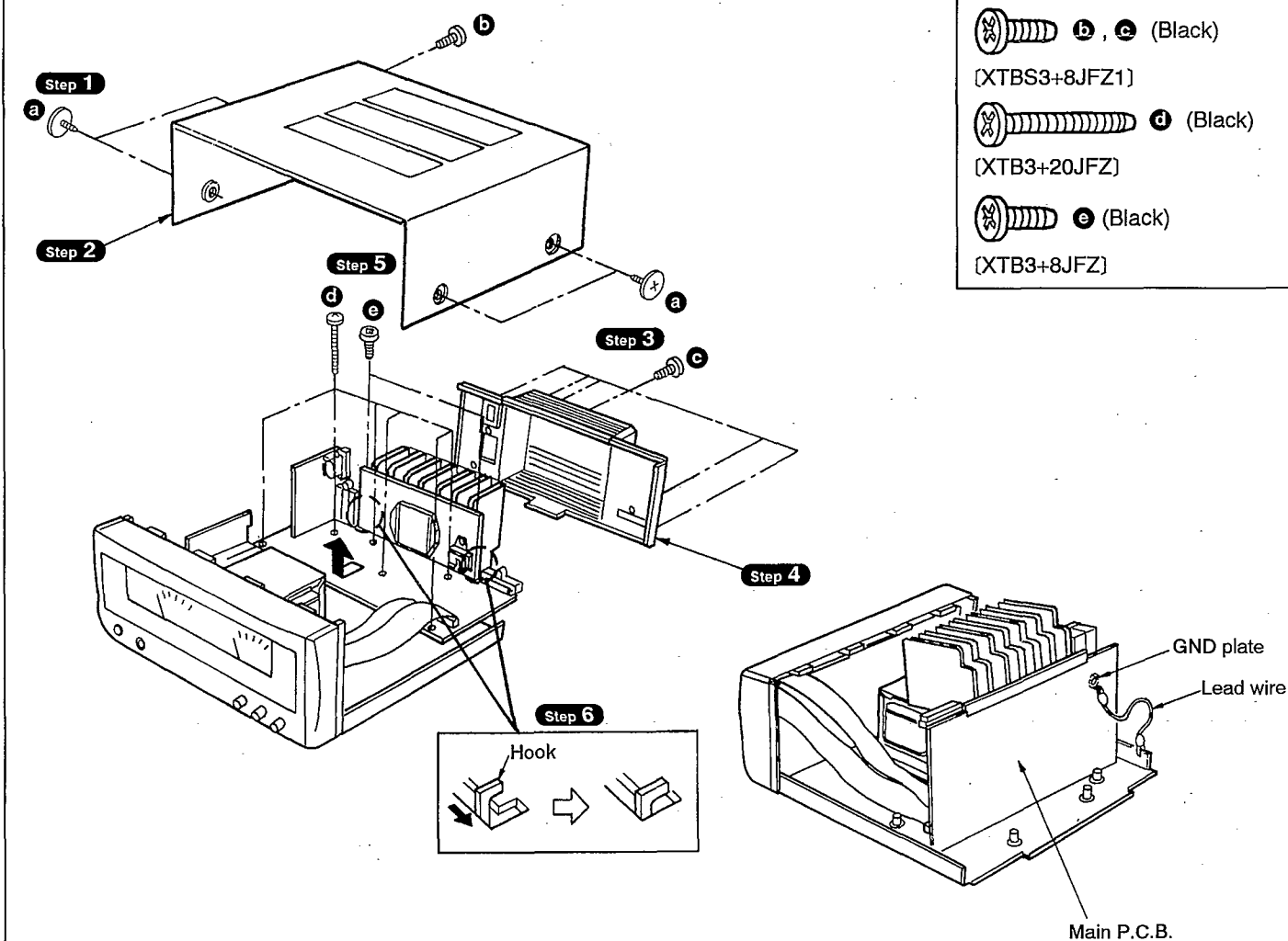
## ■ Checking Procedure for each P.C.B.

### 1. Checking for the operation P.C.B.



- a** (Black)  
[RHD30007]
- b**, **c** (Black)  
[XTBS3+8JFZ1]

## 2. Checking for the main P.C.B.

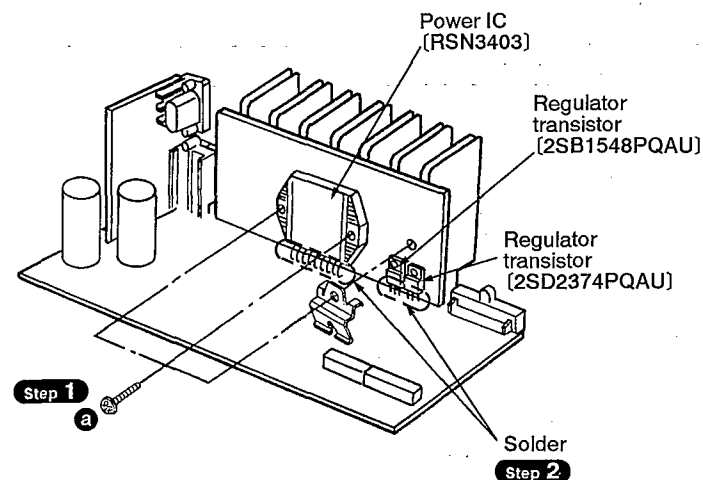
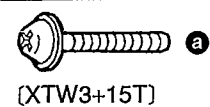


## Main Component Replacement Procedures

### 1. Replacement for the power IC and regulator transistor

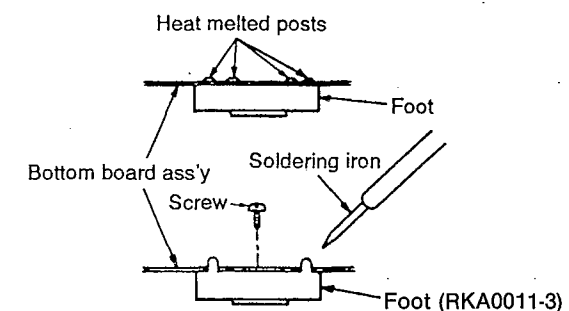
•Follow the item 2 in checking procedure for each P.C.B..

**NOTE**  
When mounting the power IC or regulator transistor, apply silicone compound (RFKX0002) to the rear side of power IC or regulator transistors.



## REPLACEMENT OF THE FOOT

1. Remove the 4 heat melted posts on the Bottom board ass'y with a pair of nippers or similar tool.
2. To replace the foot (RKA0011-3) on the Bottom board ass'y melt the 4 posts with a soldering iron or install it with a screw (XTB3+6J).



## POWER SOURCE ON/OFF OF THIS UNIT SE-CA1060

1. Connect the AC power cord of this unit to an AC outlet and turn it on. (This unit comes to stand-by mode.)
2. Make test point TP701 (TP701) short as shown in Fig. 1. POWER indicator lights and this unit comes to power ON mode.

### • Operation Check

1. Set this unit to power ON mode.
2. Input a signal (1 kHz, 100 mV) to the section between the resistor R833 (LINE IN for Lch) and the capacitor (C906) (LINE IN GND) as well as the section between the resistor R834 (LINE IN for Rch) and the capacitor (C906) (LINE IN GND).
3. Connect the speaker to the speaker terminals and check if it sounds from the speaker.

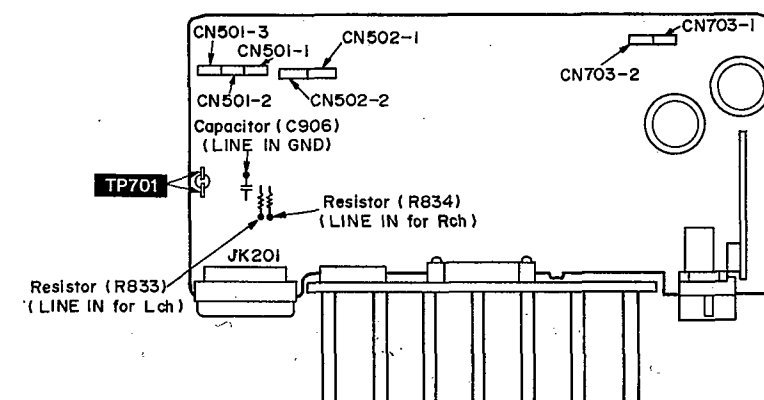


Fig. 1

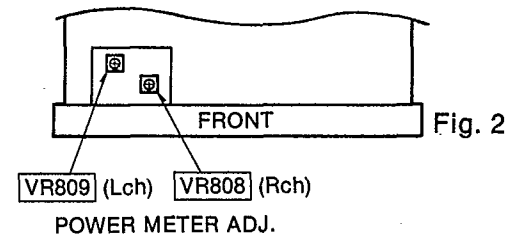
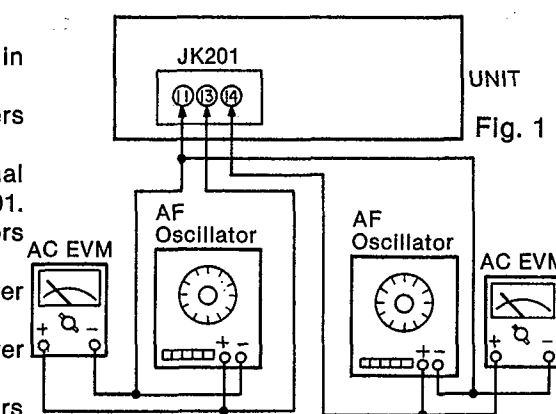
## MEASUREMENTS AND ADJUSTMENTS

### Control positions and equipment used.

- S. BASS knob..... Minimum
- BASS, TREBLE knob..... Center
- AF Oscillator
- AC electronic voltmeter (EVM)

### • POWER METER ADJUSTMENT

1. Connect an AF oscillator and AC to the amplifier, as shown in Fig. 1.
2. Set the power meter input level to 0 and confirm the meters on both amplifiers, L-ch and R-ch, show -60dB.
3. Turn on power to the unit and apply a 1kHz, 88mV signal from pin 11 (GND) to pin 13 (R-ch) and pin 14 (L-ch) of JK201. With this input level applied, check the AC EVM monitors are within the range of  $\pm 5\text{mV}$ .
4. Adjust VR808 (R-ch) and VR809 (L-ch) so that the power meter indicates 1W.
5. Increase the input level by 10dB and confirm that the power meter indicates 10W ( $\pm 1\text{W}$ ).
6. Set the input level back to 0 and check the meter indicators do not return to -60dB too quickly or unevenly.



# SCHEMATIC DIAGRAM

(Parts list of pages 18, 19, 21, 22.)

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

**Notes:**

- **S801** : Power "STANDBY  $\phi$  /ON" switch.  
(POWER, STANDBY  $\phi$  /ON)
- 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 value, depending on the internal impedance of the DC circuit tester.
- No mark: Power ON
- Important safety notice:  
Components identified by  $\Delta$  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

**Voltage and signal line**

- : Positive voltage line
- - - : Negative voltage line
- : Source signal line

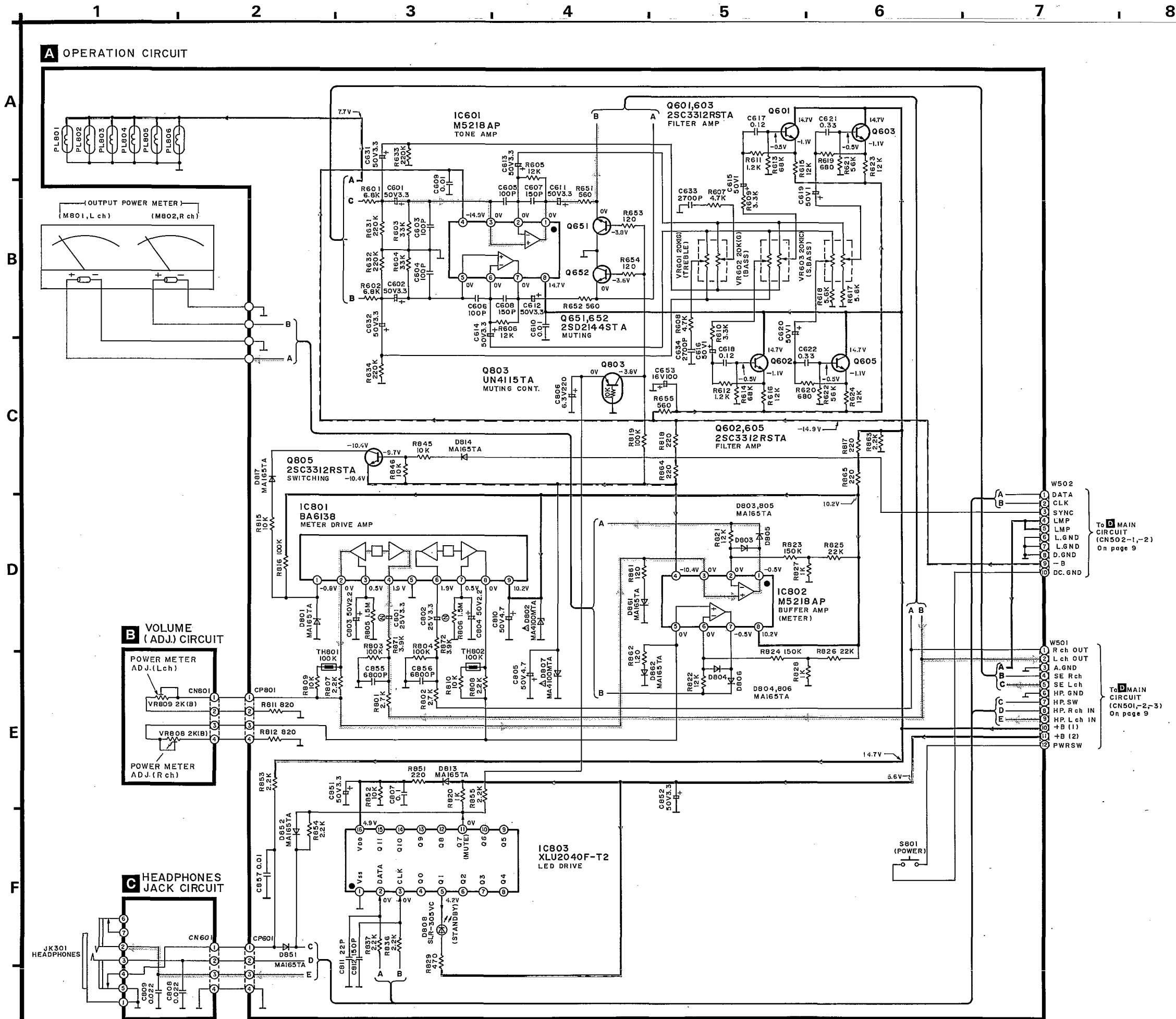
- The supply part number is described alone in the replacement parts.

| Part No. | Production Part No. | Supply Part No. |
|----------|---------------------|-----------------|
| IC803    | XLU2040F-T2         | XLU2040F-T1     |

**Caution!**

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.

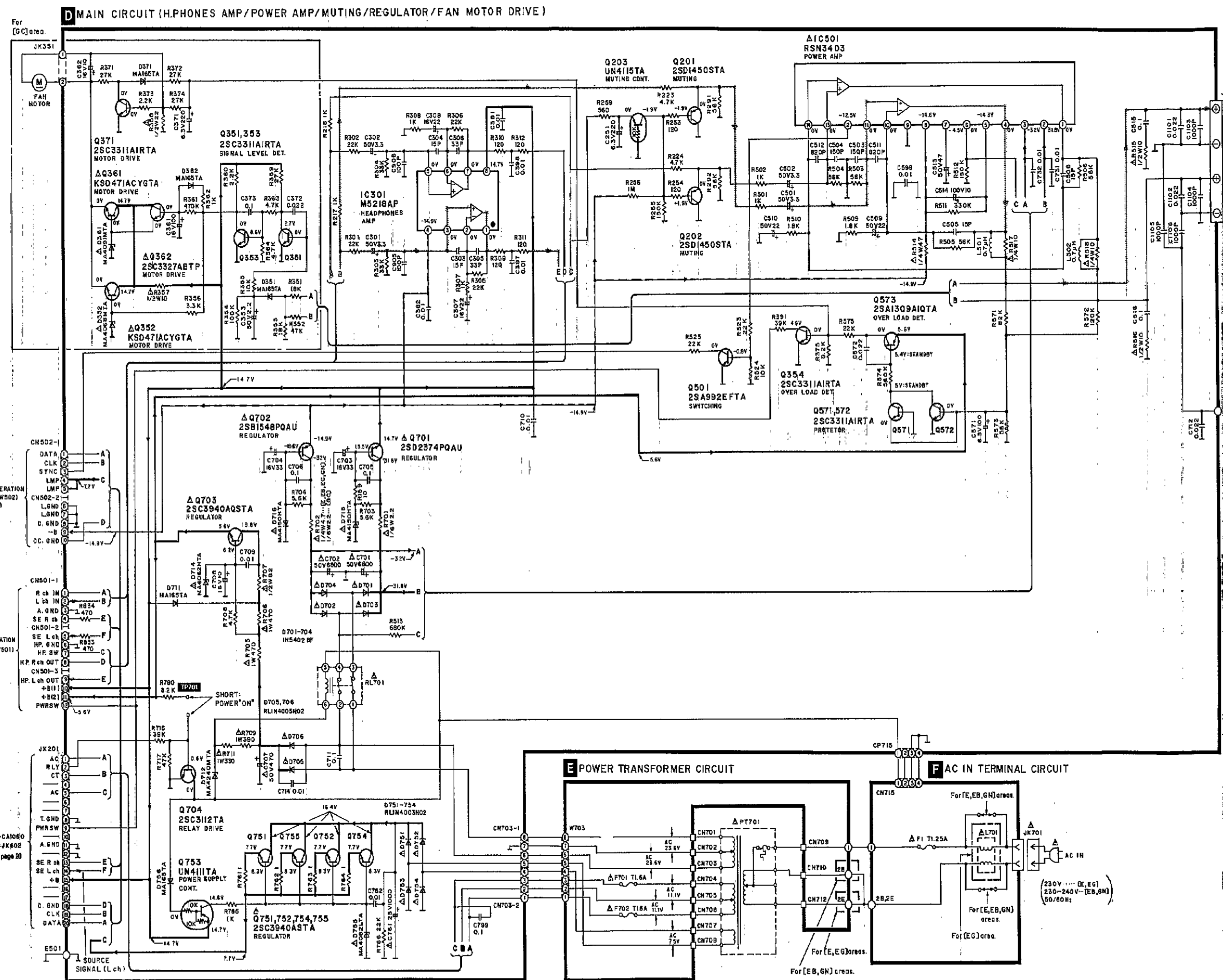
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.



To **D** MAIN CIRCUIT (CN502-1,-2) On page 9

To **D** MAIN CIRCUIT (CN501,-2,-3) On page 9

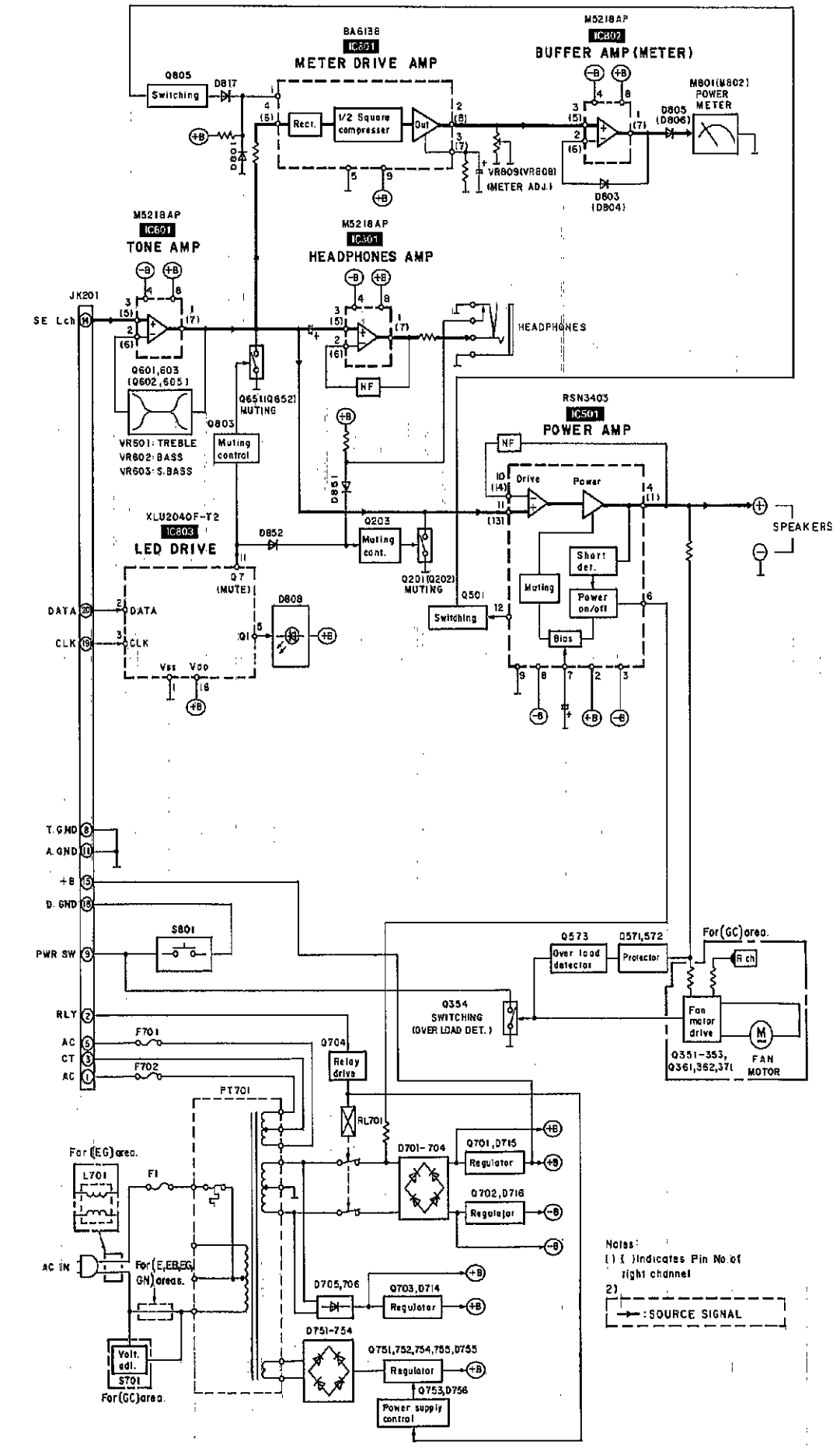
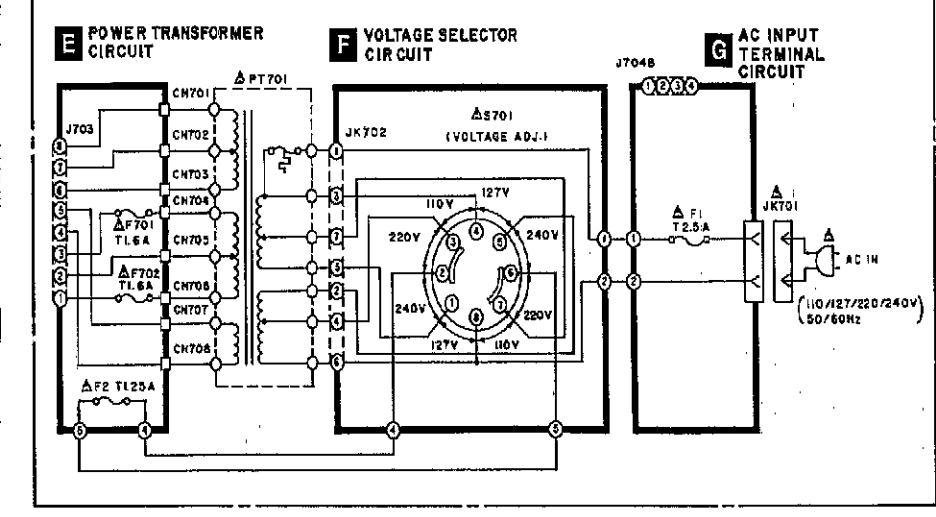
BLOCK DIAGRAM



Terminal guide of IC's, transistors and diodes

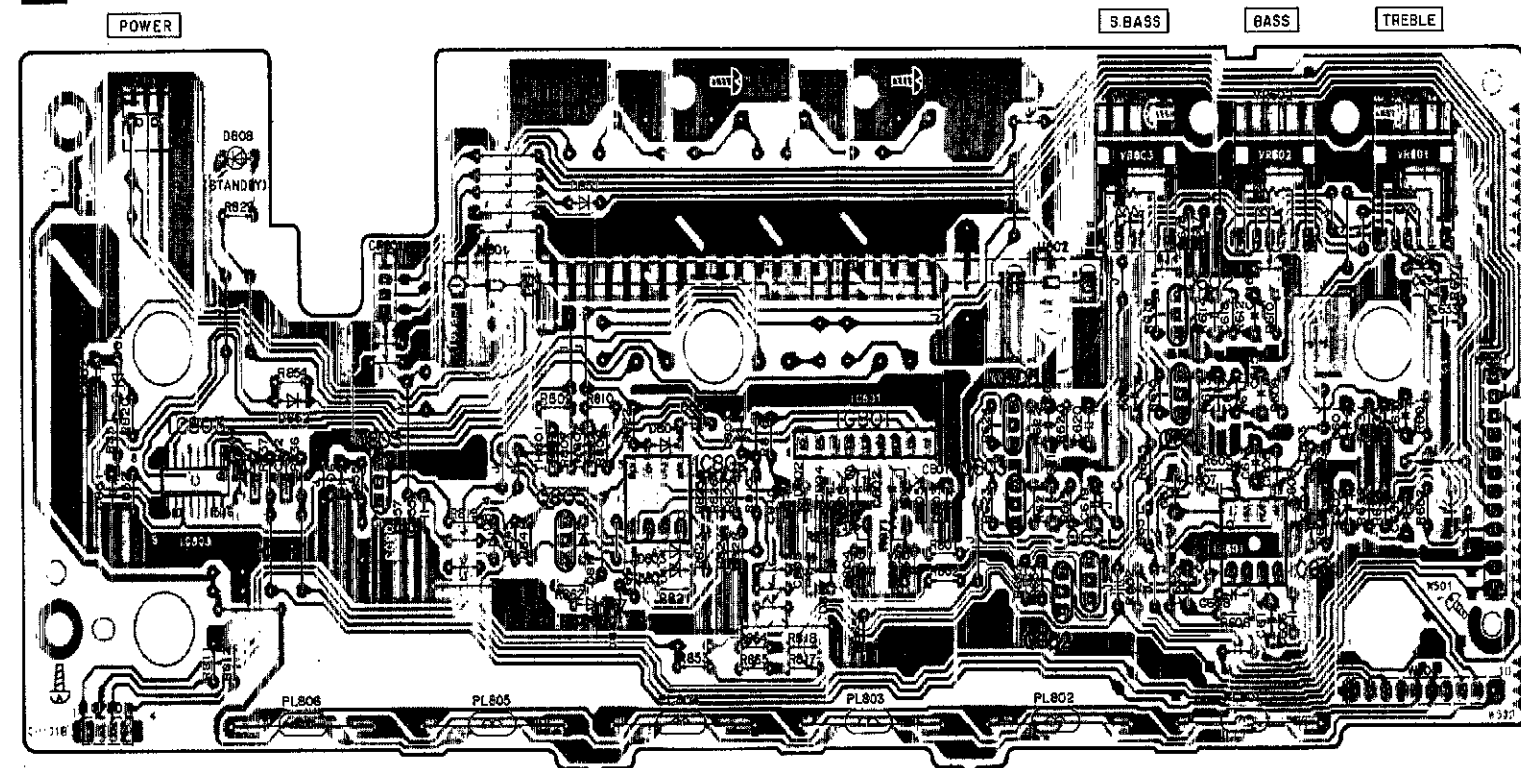
|   |  |                                 |   |
|---|--|---------------------------------|---|
| XLU2040F-T2<br>   | BA6138<br>   | RSN3403<br>                     | M5218AP<br>                             |
| 2SB1548PQAU<br>2SD2374PQAU<br>  | KSD471ACYGTA<br>2SA992EFTA<br>2SC3112TA<br>2SC3312RSTA<br> | 2SC3940AQSTA<br>2SC3940ASTA<br> | 2SD2144STA<br>MA185TA<br>               |
| UN4111TA<br>UN4115TA<br>2SA1309AIQTA<br>2SC311AIQTA<br>2SD1450STA<br> | 1N6402BF<br>RL1N4003N02<br>                                | SLR-305VC<br>                   | MA4100MTA<br>MA4160HTA<br>MA4240MTA<br> |
| MA4062HTA<br>MA4068MTA<br>MA4082LTA<br>MA4091MTA<br>                  |  |                                 |   |

Power Source For [G] area.

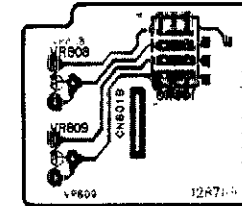


PRINTED CIRCUIT BOARDS

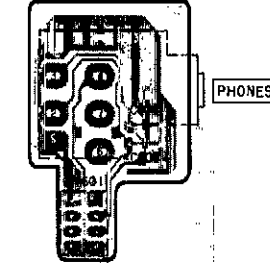
**A** OPERATION P.C.B. (REP1924A-S)



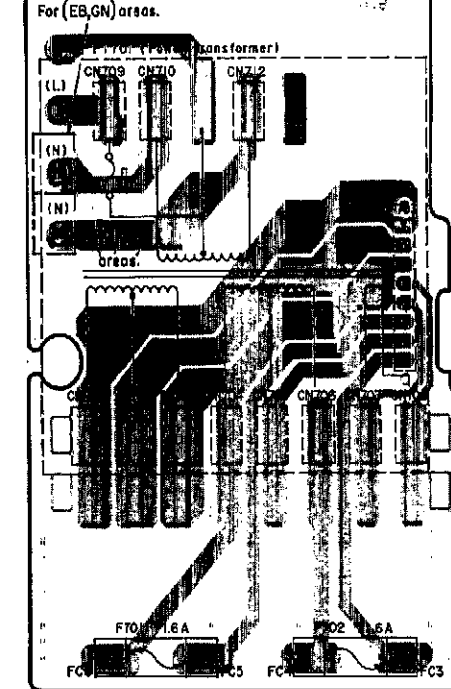
**B** VOLUME (ADJ.) P.C.B. (REP1924A-S)



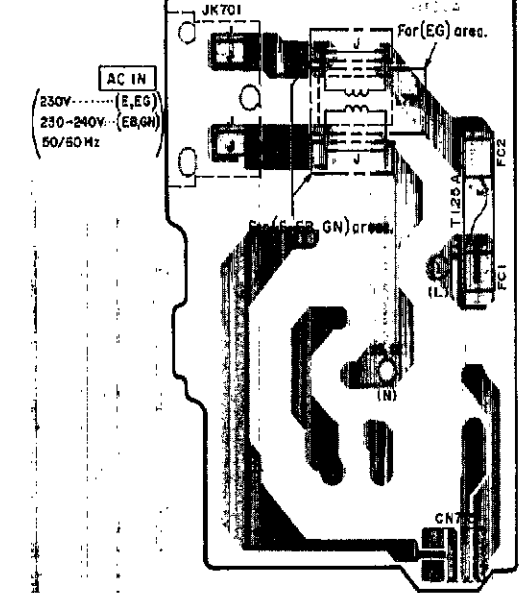
**C** HEADPHONES JACK P.C.B. (REP1924A-S)



**E** POWER TRANSFORMER P.C.B. (REP1923A-P... (E), REP1923B-P... (EG), REP1923C-P... (EB), REP1923D-P... (GN))

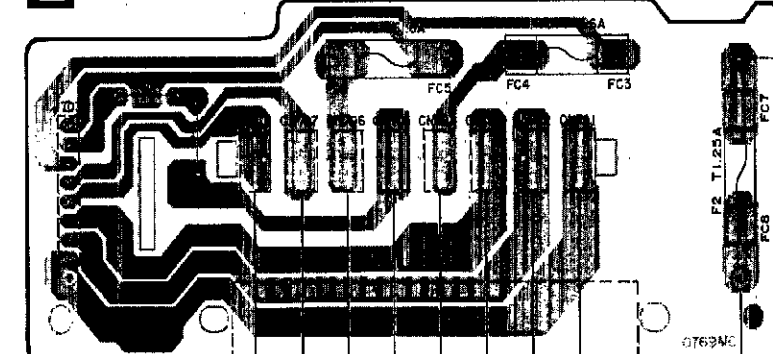


**F** AC INPUT TERMINAL P.C.B. (REP1923A-P... (E), REP1923B-P... (EG), REP1923C-P... (EB), REP1923D-P... (GN))

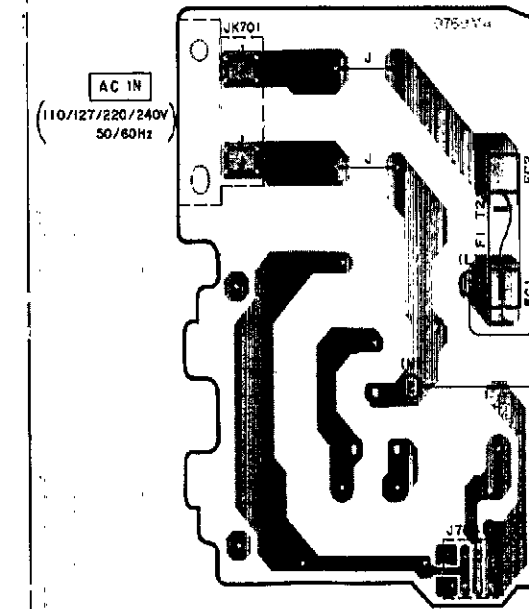


Power Source P.C.B. For (GC) area.

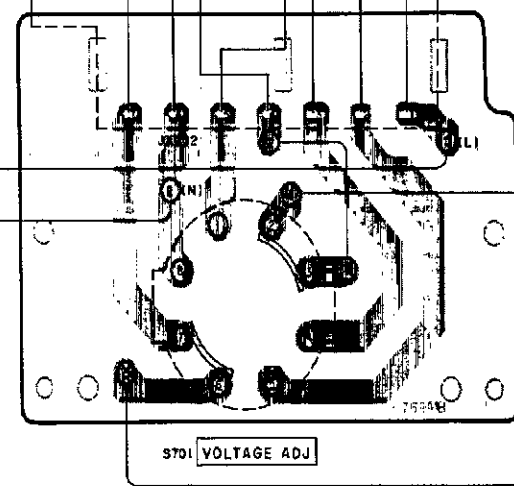
**E** POWER TRANSFORMER P.C.B. (REP1923E-P)



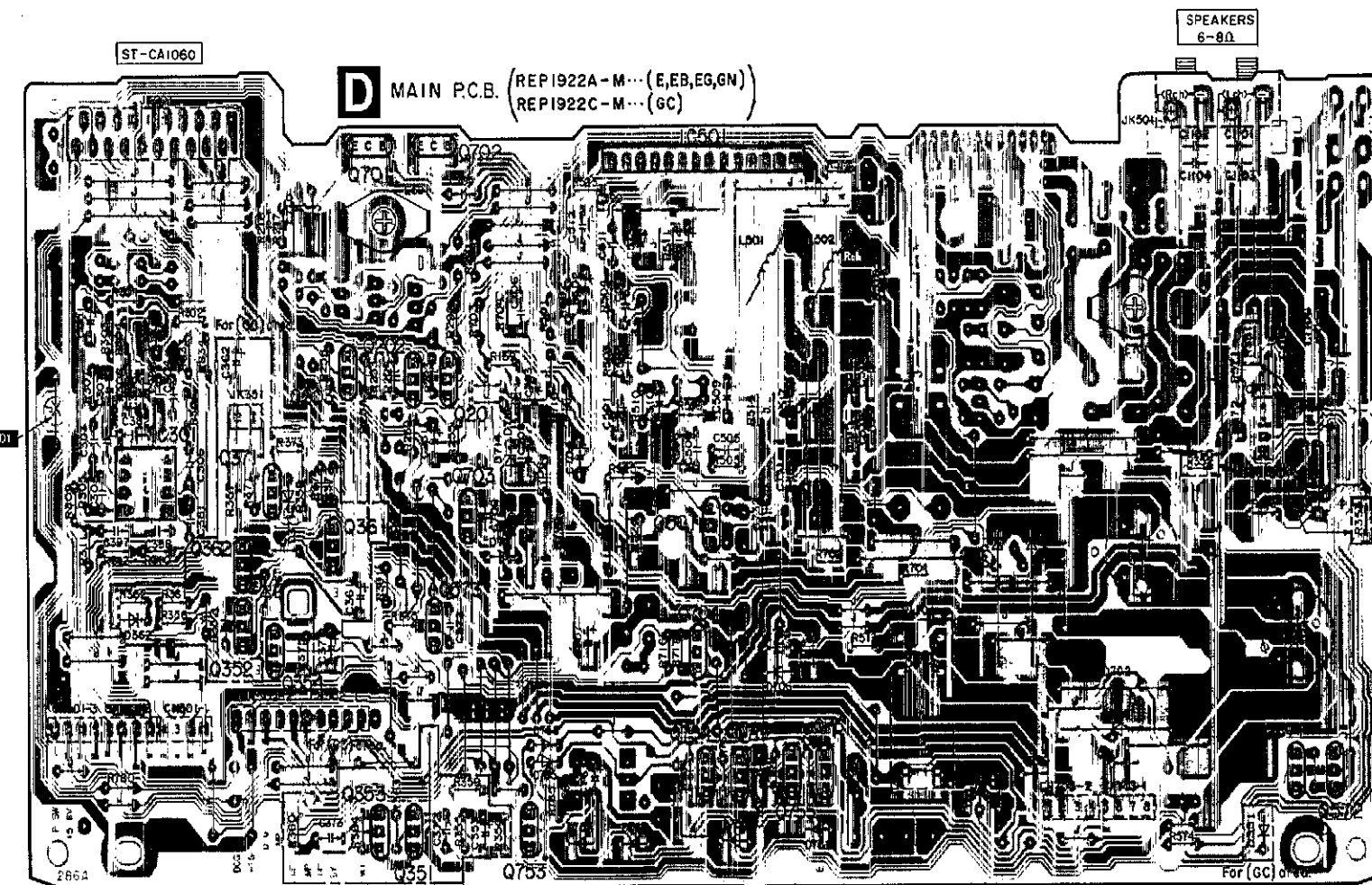
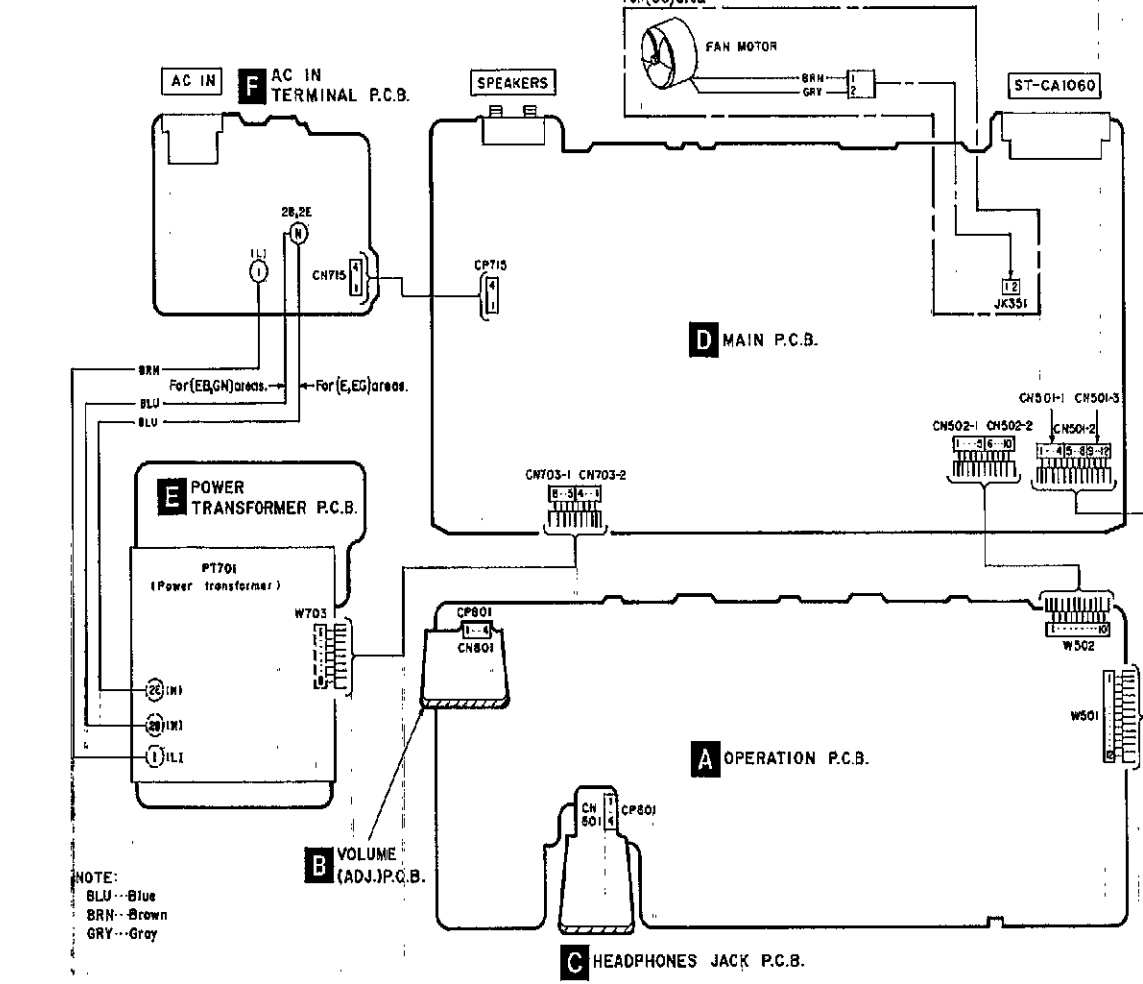
**G** AC INPUT TERMINAL P.C.B. (REP1923E-P)



**F** VOLTAGE SELECTOR P.C.B. (REP1923E-P)

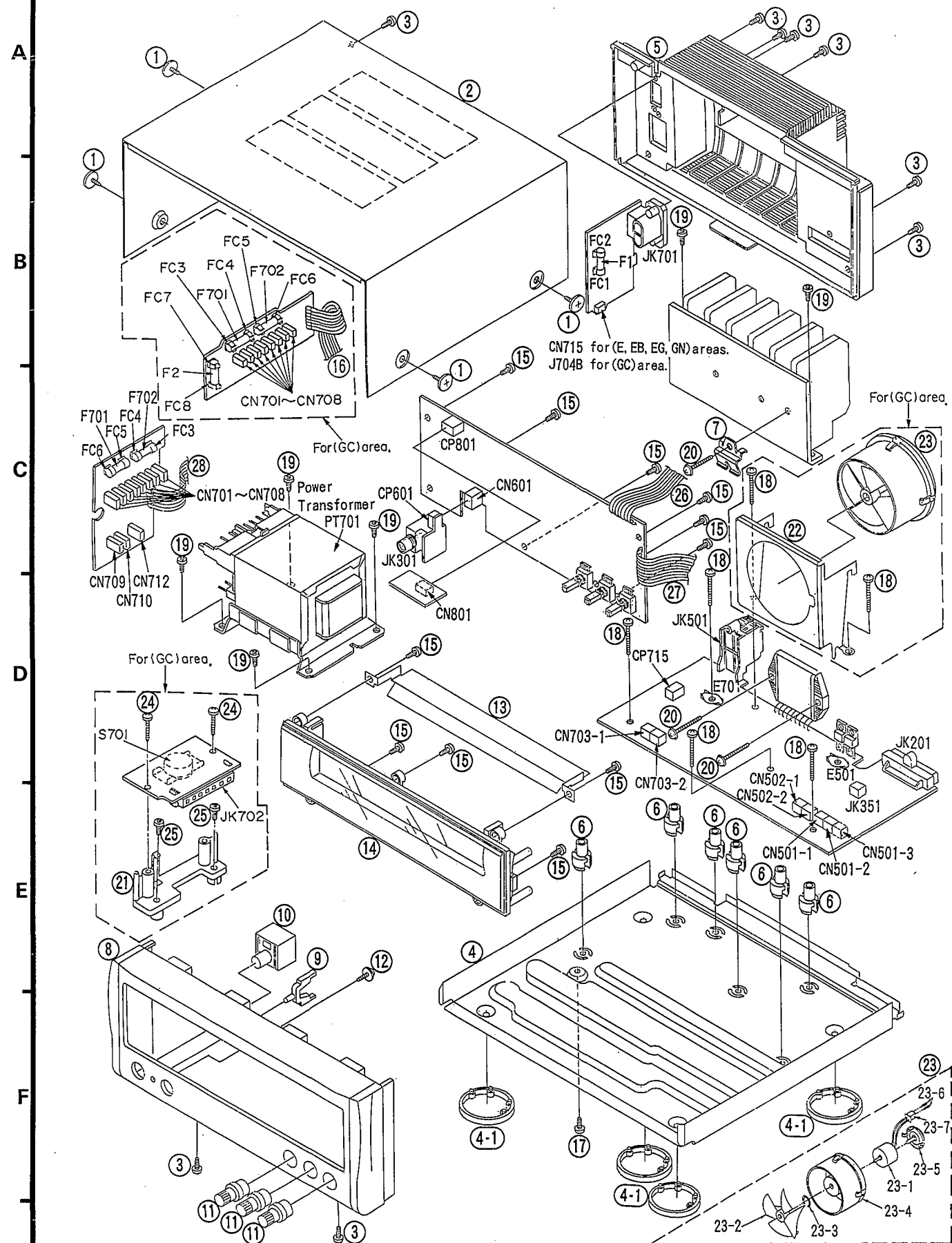


WIRING CONNECTION DIAGRAM





### CABINET PARTS LOCATION



### REPLACEMENT PARTS LIST

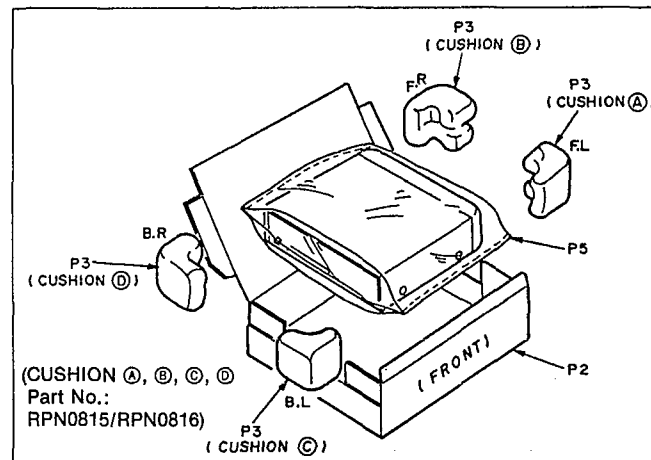
**Notes:** \*Important safety notice:  
 Components identified by Δ mark have special characteristics important for safety.  
 Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.  
 When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.  
 \*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)  
 Parts without these indications can be used for all areas.

| Ref. No.           | Part No.     | Part Name & Description    | Remarks         | Ref. No.               | Part No.     | Part Name & Description | Remarks       |
|--------------------|--------------|----------------------------|-----------------|------------------------|--------------|-------------------------|---------------|
| CABINET PARTS LIST |              |                            |                 | INTEGRATED CIRCUIT (S) |              |                         |               |
| 1                  | RHD30007     | SCREW                      |                 | IC301                  | M5218AP      | HEADPHONE AMP           |               |
| 2                  | RKMO202A-2K  | CABINET                    |                 | IC501                  | RSN3403      | POWER AMP               | Δ             |
| 3                  | XTBS3+8JFZ1  | SCREW                      |                 | IC601                  | M5218AP      | TONE AMP                |               |
| 4                  | RFKJE1060EK  | BOTTOM BOARD ASS'Y         | (E, EB, EG, GN) | IC801                  | BA6138       | METER DRIVE AMP         |               |
| 4                  | RFKJE1060GCK | BOTTOM BOARD ASS'Y         | (GC)            | IC802                  | M5218AP      | BUFFER AMP              |               |
| 4-1                | RKA0011-3    | FOOT                       |                 | IC803                  | XLU2040F-T1  | LED DRIVE               |               |
| 5                  | RKF0376-K    | REAR GRILL                 | (E)             |                        |              |                         |               |
| 5                  | RFKJE1060EBK | REAR GRILL ASS'Y           | (EB, GN)        |                        |              |                         | TRANSISTOR(S) |
| 5                  | RFKJE1060EGK | REAR GRILL ASS'Y           | (EG)            |                        |              |                         |               |
| 5                  | RFKJE1060GCK | REAR GRILL ASS'Y           | (GC)            | Q201, 202              | 2SD1450RTA   | TRANSISTOR              |               |
| 6                  | RKQ0089      | P. C. B. SPACER            |                 | Q203                   | UN4115       | TRANSISTOR              |               |
| 7                  | RMCO158      | TRANSISTOR HOLDER          |                 | Q351                   | 2SC3311AIRTA | TRANSISTOR              | (GC)          |
| 8                  | RFKGECA1060E | FRONT PANEL ASS'Y          |                 | Q352                   | KSD471ACYGTA | TRANSISTOR              | (GC) Δ        |
| 9                  | RGL0230-Q    | READING LIGHT PANEL        |                 | Q353                   | 2SC3311AIRTA | TRANSISTOR              | (GC)          |
| 10                 | RGU1062-S    | BUTTON, POWER              |                 | Q354                   | 2SC3311AIRTA | TRANSISTOR              |               |
| 11                 | RGW0205-S    | S. BASS, BASS, TREBLE KNOB |                 | Q361                   | KSD471ACYGTA | TRANSISTOR              | (GC) Δ        |
| 12                 | RHD26016     | SCREW                      |                 | Q362                   | 2SC3327-A    | TRANSISTOR              | (GC) Δ        |
| 13                 | RMV0072      | CONDUCTION PLATE           |                 | Q371                   | 2SC3311AIRTA | TRANSISTOR              | (GC)          |
| 14                 | RSE0005      | METER UNIT                 |                 | Q501                   | 2SA992EFTA   | TRANSISTOR              |               |
| 15                 | XTBS26+8J    | SCREW                      |                 | Q571, 572              | 2SC3311AIRTA | TRANSISTOR              |               |
| 16                 | RWJ1808110XX | FLAT CABLE (J703) (8P)     | (GC)            | Q573                   | 2SA1309AIQTA | TRANSISTOR              |               |
| 17                 | XTB3+10JFZ   | SCREW                      |                 | Q601-603               | 2SC3312RSTA  | TRANSISTOR              |               |
| 18                 | XTB3+20JFZ   | SCREW                      |                 | Q605                   | 2SC3312RSTA  | TRANSISTOR              |               |
| 19                 | XTB3+8JFZ    | SCREW                      |                 | Q651, 652              | 2SD2144S     | TRANSISTOR              |               |
| 20                 | XTW3+15T     | SCREW                      |                 | Q701                   | 2SD2374PQAU  | TRANSISTOR              | Δ             |
| 21                 | RMNO190      | P. C. B. SPACER            | (GC)            | Q702                   | 2SB1548PQAU  | TRANSISTOR              | Δ             |
| 22                 | RMNO282      | FAN ANGLE                  | (GC)            | Q703                   | 2SC3940AQSTA | TRANSISTOR              | Δ             |
| 23                 | SYE1128-2    | FAN ASS'Y                  | (GC)            | Q704                   | 2SC3112TA    | TRANSISTOR              |               |
| 23-1               | MDN-4RB4MRC  | MOTOR                      | (GC)            | Q751, 752              | 2SC3940ASTA  | TRANSISTOR              | Δ             |
| 23-2               | SHE232       | FAN                        | (GC)            | Q753                   | UN4111       | TRANSISTOR              |               |
| 23-3               | SUS271       | SPRING                     | (GC)            | Q754, 755              | 2SC3940ASTA  | TRANSISTOR              | Δ             |
| 23-4               | SHE233       | FAN CASE                   | (GC)            | Q803                   | UN4115       | TRANSISTOR              |               |
| 23-5               | SHE234       | CAP                        | (GC)            | Q805                   | 2SC3312RSTA  | TRANSISTOR              |               |
| 23-6               | SJT783       | TERMINAL                   | (GC)            |                        |              |                         | DIODE (S)     |
| 23-7               | SJS5215      | SOCKET (2P)                | (GC)            |                        |              |                         |               |
| 24                 | XTB3+12JFZ   | SCREW                      | (GC)            | D351                   | MA165        | DIODE                   | (GC)          |
| 25                 | XTB3+8JFZ    | SCREW                      | (GC)            | D352                   | MA4068M      | DIODE                   | (GC) Δ        |
| 26                 | RWJ1810220QC | FLAT CABLE (W502) (10P)    |                 | D361                   | MA4091-M     | DIODE                   | (GC) Δ        |
| 27                 | RWJ1812210QC | FLAT CABLE (W501) (12P)    |                 | D362                   | MA165        | DIODE                   | (GC)          |
| 28                 | RWJ1808150XX | FLAT CABLE (W703) (8P)     | (E, EB, EG, GN) | D371                   | MA165        | DIODE                   | (GC)          |
|                    |              |                            |                 | D701-704               | 1N5402BF     | DIODE                   | Δ             |
|                    |              |                            |                 | D705, 706              | RL1N4003N02  | DIODE                   | Δ             |
|                    |              |                            |                 | D711                   | MA165        | DIODE                   |               |

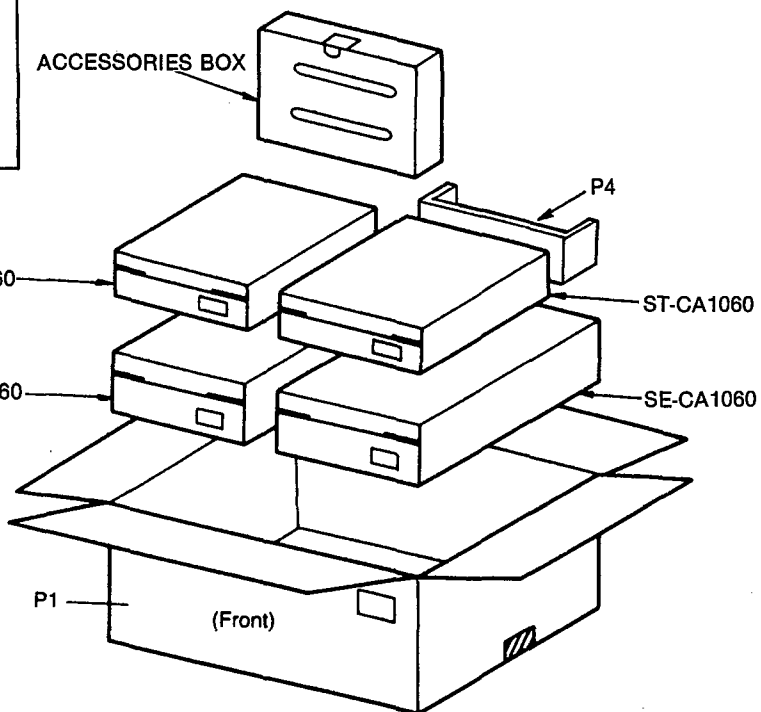
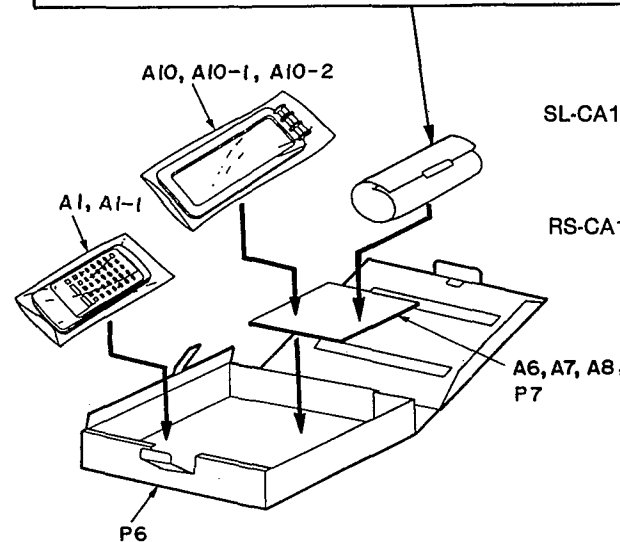
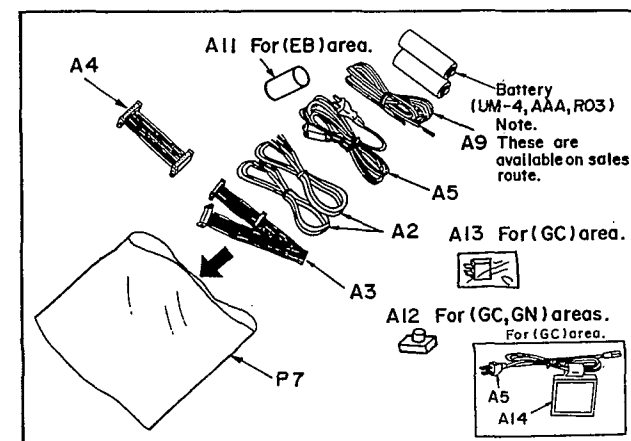
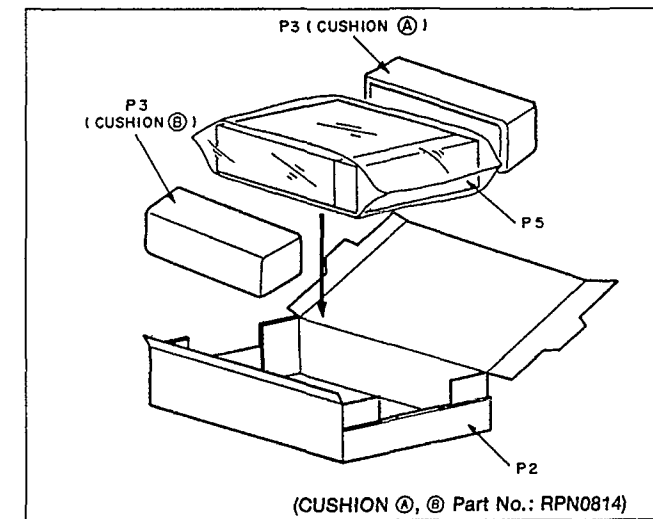
| Ref. No.   | Part No.     | Part Name & Description | Remarks           | Ref. No.   | Part No.     | Part Name & Description    | Remarks           |
|------------|--------------|-------------------------|-------------------|------------|--------------|----------------------------|-------------------|
| D712       | MA4240H      | DIODE                   |                   |            |              |                            |                   |
| D714       | MA4062-H     | DIODE                   | △                 |            |              | SWITCH(ES)                 |                   |
| D715, 716  | MA4150M      | DIODE                   | △                 |            |              |                            |                   |
| D751-754   | RL1N4003N02  | DIODE                   | △                 | S701       | ESE37263     | VOLTAGE ADJ.               | (GC) △            |
| D755       | MA4082LTA    | DIODE                   | △                 | S801       | EVQ21405R    | POWER                      |                   |
| D756       | MA165        | DIODE                   |                   |            |              |                            |                   |
| D801       | MA165        | DIODE                   |                   |            |              | RELAY(S)                   |                   |
| D802       | MA4100MTA    | DIODE                   | △                 |            |              |                            |                   |
| D803-806   | MA165        | DIODE                   |                   | RL701      | RSY0013M-0   | RELAY                      | △                 |
| D807       | MA4100MTA    | DIODE                   | △                 |            |              |                            |                   |
| D808       | SLR-305VC    | L. E. D.                |                   |            |              | CONNECTOR(S) AND SOCKET(S) |                   |
| D813, 814  | MA165        | DIODE                   |                   |            |              |                            |                   |
| D817       | MA165        | DIODE                   |                   | CN501-1-3  | RJS1A6604    | CONNECTOR (4P)             |                   |
| D851, 852  | MA165        | DIODE                   |                   | CN502-1, 2 | RJS1A6605    | CONNECTOR (5P)             |                   |
| D861, 862  | MA165        | DIODE                   |                   | CN601      | RJU057W004   | SOCKET (4P)                |                   |
|            |              | VARIABLE RESISTOR(S)    |                   | CN701-708  | RJS1A1101T1  | SOCKET (1P)                |                   |
|            |              |                         |                   | CN703-1, 2 | RJS1A6604    | CONNECTOR (4P)             |                   |
|            |              |                         |                   | CN709, 710 | RJS1A1101T1  | SOCKET (1P)                | (E, EB, EG, GN)   |
| VR601      | EVJYV1F03G24 | TREBLE                  |                   | CN712      | RJS1A1101T1  | SOCKET (1P)                | (E, EB, EG, GN)   |
| VR602      | EVJYV1F03G24 | BASS                    |                   | CN715      | RJU057W004   | SOCKET (4P)                | (E, EB, EG, GN)   |
| VR603      | EVJY91F03C24 | S. BASS                 |                   | CN801      | RJU057W004   | SOCKET (4P)                |                   |
| VR808, 809 | EVNDXAA00B23 | OUTPUT POWER METER      |                   | CP601      | RJT057W004-1 | CONNECTOR (4P)             |                   |
|            |              | THERMISTOR(S)           |                   | CP715      | RJT057W004-1 | CONNECTOR (4P)             |                   |
|            |              |                         |                   | CP801      | RJT057W004-1 | CONNECTOR (4P)             |                   |
| TH801, 802 | ERTD2ZHL104T | THERMISTOR              |                   | J704B      | RJU057W004   | SOCKET (4P)                | (GC)              |
|            |              | COIL(S)                 |                   |            |              | JACK(S)                    |                   |
|            |              |                         |                   | JK201      | RJT065K20    | CONNECTOR (20P)            |                   |
| L501, 502  | SLQV07G-40   | COIL                    |                   | JK301      | RJJ67TA02    | HEADPHONES JACK            |                   |
| L701       | RLQZ271M     | COIL                    | (EG) △            | JK351      | SJT3213      | CONNECTOR (2P)             | (GC)              |
|            |              | TRANSFORMER(S)          |                   | JK501      | RJR0054      | SPEAKER TERMINAL           |                   |
|            |              |                         |                   | JK701      | SJS9236      | AC INLET                   | (E, EB, EG, GC) △ |
| PT701      | RTP2M5B004   | POWER TRANSFORMER       | (E, EB, EG, GN) △ | JK701      | SJSD16       | AC INLET                   | (GN) △            |
| PT701      | RTP2M5G003   | POWER TRANSFORMER       | (GC) △            | JK702      | SJS702-1     | CONNECTOR (7P)             | (GC)              |
|            |              | LAMP(S)                 |                   |            |              | EARTH TERMINAL(S)          |                   |
|            |              |                         |                   | E501       | SNE1004-2    | GND PLATE                  |                   |
| PL801-806  | XAMR131      | LAMP                    |                   | E701       | SNE1004-2    | GND PLATE                  |                   |
|            |              | FUSE(S)                 |                   |            |              | FUSE HOLDER(S)             |                   |
| F1         | XBA2C12TB0S  | FUSE, 250V T1. 25A      | (E, EB, EG, GN) △ | FC1-6      | EYF52BC      | FUSE HOLDER                |                   |
| F1         | XBA2C25TBO   | FUSE, 250V T2. 5A       | (GC) △            | FC7, 8     | EYF52BC      | FUSE HOLDER                | (GC)              |
| F2         | XBA2C12TB0S  | FUSE, 250V T1. 25A      | (GC) △            |            |              |                            |                   |
| F701, 702  | XBA2C16TBO   | FUSE, 250V T1. 6A       | △                 |            |              |                            |                   |

### PACKAGING

- ST-CA1060: Stereo Tuner
- SL-CA1060: Compact Disc Player
- RS-CA1060: Cassette Deck



- SE-CA1060: Stereo Amplifier



# RESISTORS AND CAPACITORS

Notes : \* Capacity values are in microfarads ( $\mu\text{F}$ ) 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      | Ref. No.  | Part No.     | Values & Remarks                  | Ref. No.  | Part No.     | Values & Remarks |
|-----------|--------------|-----------------------|-----------|--------------|-----------------------------------|-----------|--------------|------------------|
|           |              | RESISTORS             | R574      | ERDS2TJ564   | 1/4W 560K                         | R829      | ERDS2TJ471   | 1/4W 470         |
|           |              |                       | R575      | ERDS2TJ223   | 1/4W 22K                          | R833, 834 | ERDS2TJ471   | 1/4W 470         |
|           |              |                       | R601, 602 | ERDS2TJ682T  | 1/4W 6.8K                         | R836, 837 | ERDS2TJ222   | 1/4W 2.2K        |
| R159      | ERDS2TJ100   | 1/4W 10               | R603, 604 | ERDS2TJ333   | 1/4W 33K                          | R845, 846 | ERDS2TJ103   | 1/4W 10K         |
| R217, 218 | ERDS2TJ102   | 1/4W 1K               | R605, 606 | ERDS2TJ123   | 1/4W 12K                          | R851      | ERDS2TJ221   | 1/4W 220         |
| R223, 224 | ERDS2TJ472   | 1/4W 4.7K             | R607, 608 | ERDS2TJ472   | 1/4W 4.7K                         | R852      | ERDS2TJ103   | 1/4W 10K         |
| R253, 254 | ERDS2EJ121   | 1/4W 120              | R609, 610 | ERDS2TJ332   | 1/4W 3.3K                         | R853-855  | ERDS2TJ222   | 1/4W 2.2K        |
| R255      | ERDS2TJ154   | 1/4W 150K             | R611, 612 | ERDS2TJ122   | 1/4W 1.2K                         | R861, 862 | ERDS2EJ121   | 1/4W 120         |
| R256      | ERDS2TJ105T  | 1/4W 1M               | R613, 614 | ERDS2TJ683   | 1/4W 68K                          | R863      | ERDS2TJ222   | 1/4W 2.2K        |
| R259      | ERDS2TJ561   | 1/4W 560              | R615, 616 | ERDS2TJ123   | 1/4W 12K                          | R864, 865 | ERDS2TJ221   | 1/4W 220         |
| R291, 292 | ERDS2TJ563   | 1/4W 56K              | R617, 618 | ERDS2TJ562   | 1/4W 5.6K                         | R871, 872 | ERDS2TJ392T  | 1/4W 3.9K        |
| R301, 302 | ERDS2TJ223   | 1/4W 22K              | R619, 620 | ERDS2TJ681   | 1/4W 680                          |           |              | CAPACITORS       |
| R303, 304 | ERDS2TJ333   | 1/4W 33K              | R621, 622 | ERDS2TJ563   | 1/4W 56K                          |           |              |                  |
| R305, 306 | ERDS2TJ223   | 1/4W 22K              | R623, 624 | ERDS2TJ123   | 1/4W 12K                          | C251      | ECEA0JKA221B | 6.3V 220U        |
| R307, 308 | ERDS2TJ102   | 1/4W 1K               | R631-634  | ERDS2TJ224T  | 1/4W 220K                         | C301, 302 | ECEA1HKA3R3B | 50V 3.3U         |
| R309-312  | ERDS2EJ121   | 1/4W 120              | R651, 652 | ERDS2TJ561   | 1/4W 560                          | C303, 304 | ECBT1H150J5  | 50V 15P          |
| R351      | ERDS2TJ183T  | 1/4W 18K (GC)         | R653, 654 | ERDS2EJ121   | 1/4W 120                          | C305, 306 | ECBT1H330J5  | 50V 33P          |
| R352      | ERDS2TJ473   | 1/4W 47K (GC)         | R655      | ERDS2TJ561   | 1/4W 560                          | C307, 308 | ECEA1CKA220B | 16V 22U          |
| R353      | ERDS2TJ183T  | 1/4W 18K (GC)         | R701      | ERQ16NKW2R2E | 1/6W 2.2 $\Delta$                 | C353      | ECEA1HKA2R2B | 50V 2.2U (GC)    |
| R354      | ERDS2TJ104   | 1/4W 100K (GC)        | R702      | ERD2FCVJ4R7T | 1/4W 4.7 (E, EB, EG, GN) $\Delta$ | C361      | ECEA1CKA101B | 16V 100U (GC)    |
| R355      | ERDS2TJ103   | 1/4W 10K (GC)         | R702      | ERQ16NKW2R2E | 1/6W 2.2 (GC) $\Delta$            | C362      | ECEA1CKA100B | 16V 10U (GC)     |
| R356      | ERDS2TJ332   | 1/4W 3.3K (GC)        | R703, 704 | ERDS2TJ562   | 1/4W 5.6K                         | C371      | RCE0JKA221BV | 6.3V 220U (GC)   |
| R357      | ERDS1FVJ100T | 1/2W 10 (GC) $\Delta$ | R705, 706 | ERG1SJ471E   | 1W 470 $\Delta$                   | C372      | ECBT1E223ZF  | 25V 0.022U (GC)  |
| R358      | ERDS1FVJ220T | 1/2W 22 (GC) $\Delta$ | R707      | ERDS1FVJ820T | 1/2W 82 $\Delta$                  | C373      | ECBT1H104ZF5 | 50V 0.1U (GC)    |
| R359      | ERDS2TJ273   | 1/4W 27K (GC)         | R708      | ERDS2TJ472   | 1/4W 4.7K                         | C381, 382 | ECBT1E103ZF  | 25V 0.01U        |
| R360      | ERDS2TJ222   | 1/4W 2.2K (GC)        | R709      | ERG1SJ391E   | 1W 390 $\Delta$                   | C397, 398 | ECBT1E103ZF  | 25V 0.01U        |
| R361      | ERDS2TJ474   | 1/4W 470K (GC)        | R711      | ERG1SJ331E   | 1W 330 $\Delta$                   | C501, 502 | ECA1HAP3R3B  | 50V 3.3U         |
| R362      | ERDS2TJ102   | 1/4W 1K (GC)          | R716      | ERDS2TJ393   | 1/4W 39K                          | C503, 504 | ECBT1H151KB5 | 50V 150P         |
| R363, 364 | ERDS2TJ472   | 1/4W 4.7K (GC)        | R717      | ERDS2TJ473   | 1/4W 47K                          | C505, 506 | ECBT1H150J5  | 50V 15P          |
| R371, 372 | ERDS2TJ273   | 1/4W 27K (GC)         | R761-764  | ERDS2TJ1R0   | 1/4W 1.0                          | C509, 510 | ECA1HAP220B  | 50V 22U          |
| R373      | ERDS2TJ222   | 1/4W 2.2K (GC)        | R765      | ERDS2TJ102   | 1/4W 1K                           | C511, 512 | ECBT1H821KB5 | 50V 820P         |
| R374      | ERDS2TJ273   | 1/4W 27K (GC)         | R766      | ERDS2TJ223   | 1/4W 22K                          | C513      | ECA1H470B    | 50V 47U          |
| R375      | ERDS2TJ822   | 1/4W 8.2K             | R780      | ERDS2TJ822   | 1/4W 8.2K                         | C514      | ECA2AAP100B  | 100V 10U         |
| R391      | ERDS2TJ393   | 1/4W 39K              | R801, 802 | ERDS2TJ272T  | 1/4W 2.7K                         | C515, 516 | ECBT1H104ZF5 | 50V 0.1U         |
| R501, 502 | ERDS2TJ102   | 1/4W 1K               | R803, 804 | ERDS2TJ104   | 1/4W 100K                         | C571      | ECEA0JKA101B | 6.3V 100U        |
| R503-506  | ERDS2TJ563   | 1/4W 56K              | R805, 806 | ERDS2TJ155   | 1/4W 1.5M                         | C572      | ECBT1E223ZF  | 25V 0.022U       |
| R509, 510 | ERDS2TJ182   | 1/4W 1.8K             | R807, 808 | ERDS2TJ222   | 1/4W 2.2K                         | C599      | ECBT1C103MS5 | 16V 0.01U        |
| R511      | ERDS2TJ334   | 1/4W 330K             | R809, 810 | ERDS2TJ103   | 1/4W 10K                          | C601, 602 | ECEA1HKA3R3B | 50V 3.3U         |
| R512      | ERDS2TJ154   | 1/4W 150K             | R811, 812 | ERDS2TJ821   | 1/4W 820                          | C603-606  | ECBT1H101KB5 | 50V 100P         |
| R513      | ERDS2TJ684   | 1/4W 680K             | R815      | ERDS2TJ103   | 1/4W 10K                          | C607, 608 | ECBT1H151KB5 | 50V 150P         |
| R514      | ERD25FJ470   | 1/4W 47 $\Delta$      | R816      | ERDS2TJ104   | 1/4W 100K                         | C609, 610 | ECBT1E103ZF  | 25V 0.01U        |
| R515, 516 | ERDS1FVJ100T | 1/2W 10 $\Delta$      | R817, 818 | ERDS2TJ221   | 1/4W 220                          | C611-614  | ECEA1HKA3R3B | 50V 3.3U         |
| R517, 518 | ERD25FVJ100T | 1/4W 10 $\Delta$      | R819      | ERDS2TJ104   | 1/4W 100K                         | C615, 616 | ECEA1HKA010B | 50V 1U           |
| R523      | ERDS2TJ223   | 1/4W 22K              | R820      | ERDS2TJ102   | 1/4W 1K                           | C617, 618 | ECQV1H124JM3 | 50V 0.12U        |
| R524      | ERDS2TJ103   | 1/4W 10K              | R821, 822 | ERDS2TJ123   | 1/4W 12K                          | C619, 620 | ECEA1HKA010B | 50V 1U           |
| R525      | ERDS2TJ223   | 1/4W 22K              | R823, 824 | ERDS2TJ154   | 1/4W 150K                         | C621, 622 | ECQV1H334JM3 | 50V 0.33U        |
| R571      | ERDS2TJ823T  | 1/4W 82K              | R825, 826 | ERDS2TJ223   | 1/4W 22K                          | C631, 632 | ECEA1HKA3R3B | 50V 3.3U         |
| R572      | ERDS2TJ124T  | 1/4W 120K             | R827, 828 | ERDS2TJ102   | 1/4W 1K                           | C633, 634 | ECQ1H272JF3  | 50V 2700P        |
| R573      | ERDS2TJ563   | 1/4W 56K              |           |              |                                   |           |              |                  |

| Ref. No.  | Part No.     | Values & Remarks   | Ref. No.  | Part No.     | Values & Remarks   | Ref. No.    | Part No.     | Values & Remarks |
|-----------|--------------|--------------------|-----------|--------------|--------------------|-------------|--------------|------------------|
| C653      | ECEA1CKA101B | 16V 100U           | C731, 732 | ECKR1H103ZF5 | 50V 0.01U          | C810        | ECEA1HKA4R7B | 50V 4.7U         |
| C701, 702 | ECES1H682VNG | 50V 6800U $\Delta$ | C761      | ECA1EM102B   | 25V 1000U $\Delta$ | C811        | ECBT1H220J5  | 50V 22P          |
| C703, 704 | ECEA1CKA330B | 16V 33U            | C762      | ECBT1E103ZF  | 25V 0.01U          | C812        | ECBT1H151KB5 | 50V 150P         |
| C705, 706 | ECBT1H104ZF5 | 50V 0.1U           | C799      | ECBT1H104ZF5 | 50V 0.1U           | C851, 852   | ECEA1HKA3R3B | 50V 3.3U         |
| C707      | ECA1HM471B   | 50V 470U $\Delta$  | C801, 802 | ECEA1EKN3R3B | 25V 3.3U           | C855, 856   | ECBT1C682KR5 | 16V 6800P        |
| C708      | ECEA1CKA100B | 16V 10U            | C803, 804 | ECEA1HKA2R2B | 50V 2.2U           | C857        | ECBT1E103ZF  | 25V 0.01U        |
| C709, 710 | ECBT1E103ZF  | 25V 0.01U          | C805      | ECEA1HKA4R7B | 50V 4.7U           | C905, 906   | ECBT1H101KB5 | 50V 100P         |
| C711      | ECQE1104KF3  | 100V 0.1U          | C806      | ECEADJKA221B | 6.3V 220U          | C1101, 1102 | ECBT1E223ZF  | 25V 0.022U       |
| C712      | ECBT1E223ZF  | 25V 0.022U         | C807      | ECBT1H104ZF5 | 50V 0.1U           | C1103-1106  | ECBT1H102KB5 | 50V 1000P        |
| C714      | ECKR1H103ZF5 | 50V 0.01U          | C808, 809 | ECBT1E223ZF  | 25V 0.022U         |             |              |                  |

## REPLACEMENT PARTS LIST

### Notes: \*Important safety notice:

Components identified by  $\Delta$  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

\*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)

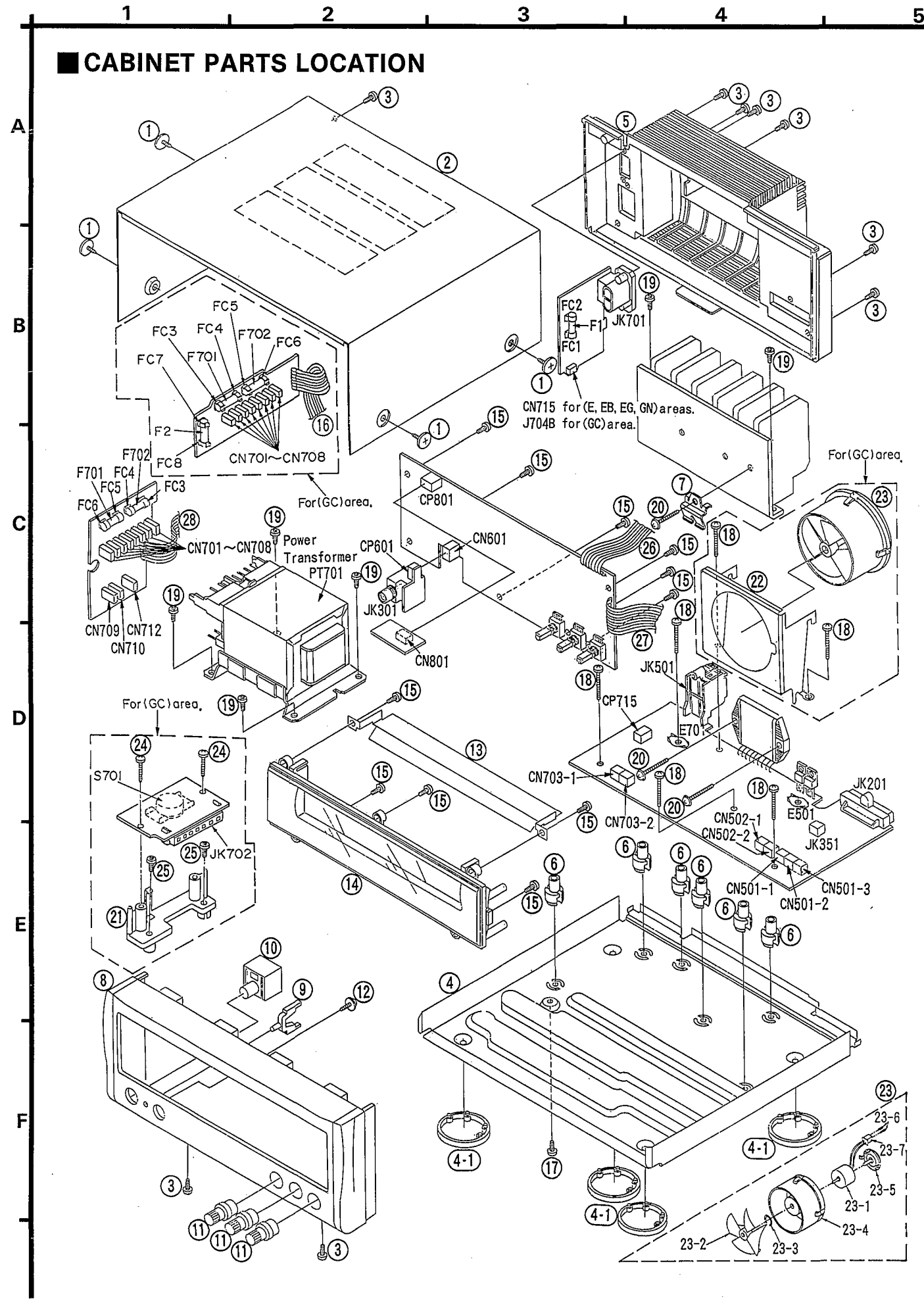
Parts without these indications can be used for all areas.

\*Remote Control Ass'y: Supply period for three years from termination of production.

\*The "(SF)" mark denotes the standard part.

| Ref. No. | Part No.     | Part Name & Description      | Remarks | Ref. No. | Part No.     | Part Name & Description  | Remarks              |
|----------|--------------|------------------------------|---------|----------|--------------|--------------------------|----------------------|
|          |              |                              |         | A2       | REED393      | SPEAKER CORD             |                      |
|          |              | PACKING MATERIALS            |         | A3       | REX0511      | FLAT CABLE (LONG) (15P)  |                      |
|          |              |                              |         | A4       | REX0608      | FLAT CABLE (SHORT) (20P) |                      |
| P1       | RPG2129-1    | PACKING CASE (SYSTEM)        | (E, EG) | A5       | RJAO019-2A   | AC POWER SUPPLY CORD     | (E, EG, GC) $\Delta$ |
| P1       | RPG2131      | PACKING CASE (SYSTEM)        | (EB)    | A5       | VJAO733      | AC POWER SUPPLY CORD     | (EB) $\Delta$ (SF)   |
| P1       | RPG2132      | PACKING CASE (SYSTEM)        | (GC)    | A5       | RJAO036-K    | AC POWER SUPPLY CORD     | (GN) $\Delta$ (SF)   |
| P1       | RPG2133      | PACKING CASE (SYSTEM)        | (GN)    | A6       | RFKSECA1060E | INSTRUCTION MANUAL ASS'Y | (E)                  |
| P2       | RPG2230      | PACKING CASE (AMPLIFIER)     |         | A6       | RFKSCA1060EB | INSTRUCTION MANUAL ASS'Y | (EB)                 |
| P2       | RPG2231      | PACKING CASE (DECK)          |         | A6       | RQT2552-B    | INSTRUCTION MANUAL       | (GN)                 |
| P2       | RPG2232      | PACKING CASE (TUNER/CD)      |         | A6       | RQT2554-2E   | INSTRUCTION MANUAL       | (EG)                 |
| P3       | RPNO814      | CUSHION (AMPLIFIER)          |         | A6       | RQT2553-2G   | INSTRUCTION MANUAL       | (GC)                 |
| P3       | RPNO815      | CUSHION (DECK)               |         | A7       | RQA0013      | WARRANTY CARD            | (E, EB, EG)          |
| P3       | RPNO816      | CUSHION (TUNER/CD)           |         | A7       | RQX7433ZA    | WARRANTY CARD            | (GN)                 |
| P4       | RPQ0458      | SPACER                       |         | A8       | RQCBO169     | SERVICENTER LIST         |                      |
| P5       | SPP740       | PROTECTION BAG (UNIT)        |         | A9       | RSA0007      | FM INDOOR ANTENNA        |                      |
| P6       | RPQF0047     | ACCESSORIES BOX              |         | A10      | RSA0012      | AM LOOP ANTENNA          |                      |
| P7       | XZB25X34C03Y | PROTECTION BAG (F. B., ACC.) |         | A10-1    | RMND244      | ANTENNA HOLDER           |                      |
|          |              | ACCESSORIES                  |         | A10-2    | XTN3+12AFZ   | SCREW                    |                      |
|          |              |                              |         | A11      | SJP9009      | ATTACHMENT PLUG          | (EB) $\Delta$        |
|          |              |                              |         | A12      | RFE0014      | ANTENNA PLUG             | (GC, GN)             |
| A1       | RAK-CH143WH  | REMOTE CONTROL TRANSMITTER   |         | A13      | SJP5213-1    | POWER PLUG ADAPTOR       | (GC) $\Delta$        |
| A1-1     | RKK0057-K    | BATTERY COVER                |         | A14      | RQLA0134     | VOLTAGE CAUTION LABEL    | (GC)                 |

**■ CABINET PARTS LOCATION**



**■ REPLACEMENT PARTS LIST**

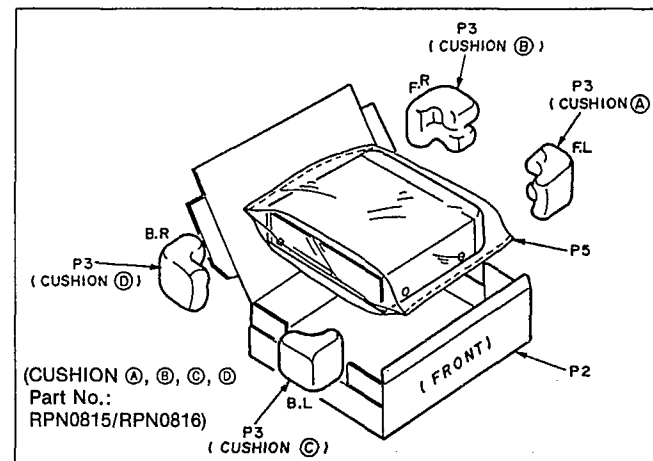
**Notes:** \*Important safety notice:  
 Components identified by Δ mark have special characteristics important for safety.  
 Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.  
 When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.  
 \*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)  
 Parts without these indications can be used for all areas.

| Ref. No.           | Part No.     | Part Name & Description    | Remarks         | Ref. No.               | Part No.     | Part Name & Description | Remarks       |
|--------------------|--------------|----------------------------|-----------------|------------------------|--------------|-------------------------|---------------|
| CABINET PARTS LIST |              |                            |                 | INTEGRATED CIRCUIT (S) |              |                         |               |
| 1                  | RHD30007     | SCREW                      |                 | IC301                  | M5218AP      | HEADPHONE AMP           |               |
| 2                  | RKMO202A-2K  | CABINET                    |                 | IC501                  | RSN3403      | POWER AMP               | Δ             |
| 3                  | XTBS3+8JFZ1  | SCREW                      |                 | IC601                  | M5218AP      | TONE AMP                |               |
| 4                  | RFKJE1060EK  | BOTTOM BOARD ASS'Y         | (E, EB, EG, GN) | IC801                  | BA6138       | METER DRIVE AMP         |               |
| 4                  | RFKJE1060GCK | BOTTOM BOARD ASS'Y         | (GC)            | IC802                  | M5218AP      | BUFFER AMP              |               |
| 4-1                | RKA0011-3    | FOOT                       |                 | IC803                  | XLU2040F-T1  | LED DRIVE               |               |
| 5                  | RKF0376-K    | REAR GRILL                 | (E)             |                        |              |                         |               |
| 5                  | RFKJE1060EBK | REAR GRILL ASS'Y           | (EB, GN)        |                        |              |                         | TRANSISTOR(S) |
| 5                  | RFKJE1060EGK | REAR GRILL ASS'Y           | (EG)            |                        |              |                         |               |
| 5                  | RFKJE1060GCK | REAR GRILL ASS'Y           | (GC)            | Q201, 202              | ZSD1450RTA   | TRANSISTOR              |               |
| 6                  | RKQ0089      | P. C. B. SPACER            |                 | Q203                   | UN4115       | TRANSISTOR              |               |
| 7                  | RMCO158      | TRANSISTOR HOLDER          |                 | Q351                   | ZSC3311AIRTA | TRANSISTOR              | (GC)          |
| 8                  | RFKGECA1060E | FRONT PANEL ASS'Y          |                 | Q352                   | KSD471ACYGTA | TRANSISTOR              | (GC) Δ        |
| 9                  | RGL0230-Q    | READING LIGHT PANEL        |                 | Q353                   | ZSC3311AIRTA | TRANSISTOR              | (GC)          |
| 10                 | RGU1062-S    | BUTTON, POWER              |                 | Q354                   | ZSC3311AIRTA | TRANSISTOR              |               |
| 11                 | RGW0205-S    | S. BASS, BASS, TREBLE KNOB |                 | Q361                   | KSD471ACYGTA | TRANSISTOR              | (GC) Δ        |
| 12                 | RHD26016     | SCREW                      |                 | Q362                   | ZSC3327-A    | TRANSISTOR              | (GC) Δ        |
| 13                 | RMV0072      | CONDUCTION PLATE           |                 | Q371                   | ZSC3311AIRTA | TRANSISTOR              | (GC)          |
| 14                 | RSE0005      | METER UNIT                 |                 | Q501                   | ZSA992EFTA   | TRANSISTOR              |               |
| 15                 | XTBS26+8J    | SCREW                      |                 | Q571, 572              | ZSC3311AIRTA | TRANSISTOR              |               |
| 16                 | RWJ1808110XX | FLAT CABLE (J703) (8P)     | (GC)            | Q573                   | ZSA1309AIQTA | TRANSISTOR              |               |
| 17                 | XTB3+10JFZ   | SCREW                      |                 | Q601-603               | ZSC3312RSTA  | TRANSISTOR              |               |
| 18                 | XTB3+20JFZ   | SCREW                      |                 | Q605                   | ZSC3312RSTA  | TRANSISTOR              |               |
| 19                 | XTB3+8JFZ    | SCREW                      |                 | Q651, 652              | ZSD2144S     | TRANSISTOR              |               |
| 20                 | XTW3+15T     | SCREW                      |                 | Q701                   | ZSD2374PQAU  | TRANSISTOR              | Δ             |
| 21                 | RMNO190      | P. C. B. SPACER            | (GC)            | Q702                   | ZSB1548PQAU  | TRANSISTOR              | Δ             |
| 22                 | RMNO282      | FAN ANGLE                  | (GC)            | Q703                   | ZSC3940AQSTA | TRANSISTOR              | Δ             |
| 23                 | SYE1128-2    | FAN ASS'Y                  | (GC)            | Q704                   | ZSC3112TA    | TRANSISTOR              |               |
| 23-1               | MDN-4RB4MRC  | MOTOR                      | (GC)            | Q751, 752              | ZSC3940ASTA  | TRANSISTOR              | Δ             |
| 23-2               | SHE232       | FAN                        | (GC)            | Q753                   | UN4111       | TRANSISTOR              |               |
| 23-3               | SUS271       | SPRING                     | (GC)            | Q754, 755              | ZSC3940ASTA  | TRANSISTOR              | Δ             |
| 23-4               | SHE233       | FAN CASE                   | (GC)            | Q803                   | UN4115       | TRANSISTOR              |               |
| 23-5               | SHE234       | CAP                        | (GC)            | Q805                   | ZSC3312RSTA  | TRANSISTOR              |               |
| 23-6               | SJT783       | TERMINAL                   | (GC)            |                        |              |                         | DIODE (S)     |
| 23-7               | SJS5215      | SOCKET (2P)                | (GC)            |                        |              |                         |               |
| 24                 | XTB3+12JFZ   | SCREW                      | (GC)            | D351                   | MA165        | DIODE                   | (GC)          |
| 25                 | XTB3+8JFZ    | SCREW                      | (GC)            | D352                   | MA4068M      | DIODE                   | (GC) Δ        |
| 26                 | RWJ1810220QC | FLAT CABLE (W502) (10P)    |                 | D361                   | MA4091-M     | DIODE                   | (GC) Δ        |
| 27                 | RWJ1812210QC | FLAT CABLE (W501) (12P)    |                 | D362                   | MA165        | DIODE                   | (GC)          |
| 28                 | RWJ1808150XX | FLAT CABLE (W703) (8P)     | (E, EB, EG, GN) | D371                   | MA165        | DIODE                   | (GC)          |
|                    |              |                            |                 | D701-704               | 1N5402BF     | DIODE                   | Δ             |
|                    |              |                            |                 | D705, 706              | RL1N4003N02  | DIODE                   | Δ             |
|                    |              |                            |                 | D711                   | MA165        | DIODE                   |               |

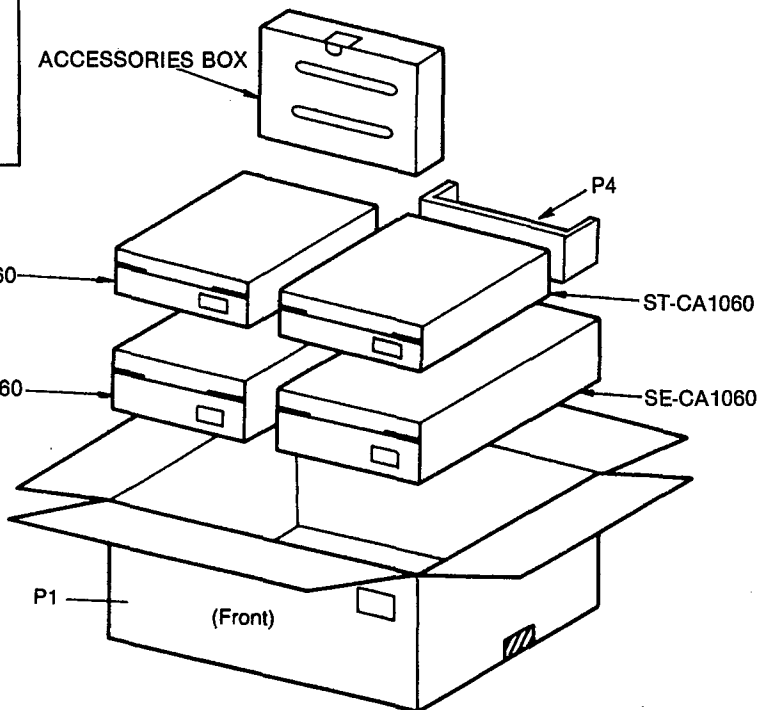
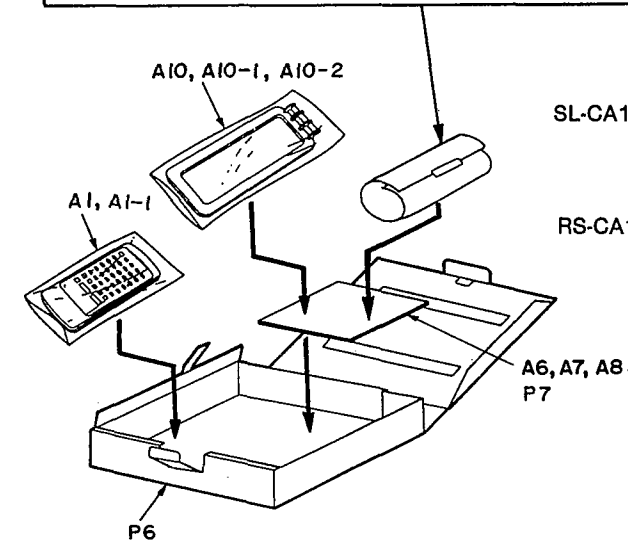
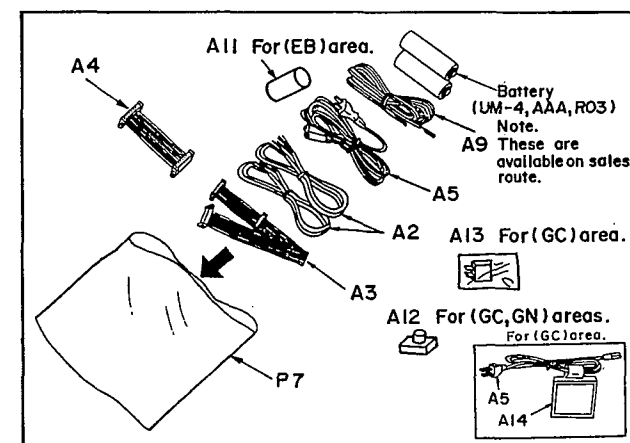
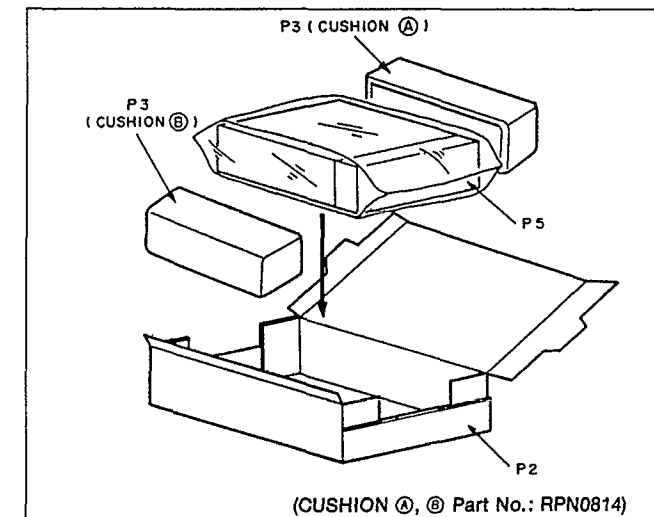
| Ref. No.   | Part No.     | Part Name & Description | Remarks           | Ref. No.   | Part No.     | Part Name & Description    | Remarks           |
|------------|--------------|-------------------------|-------------------|------------|--------------|----------------------------|-------------------|
| D712       | MA4240H      | DIODE                   |                   |            |              |                            |                   |
| D714       | MA4062-H     | DIODE                   | △                 |            |              | SWITCH(ES)                 |                   |
| D715, 716  | MA4150M      | DIODE                   | △                 |            |              |                            |                   |
| D751-754   | RL1N4003N02  | DIODE                   | △                 | S701       | ESE37263     | VOLTAGE ADJ.               | (GC) △            |
| D755       | MA4082LTA    | DIODE                   | △                 | S801       | EVQ21405R    | POWER                      |                   |
| D756       | MA165        | DIODE                   |                   |            |              |                            |                   |
| D801       | MA165        | DIODE                   |                   |            |              | RELAY(S)                   |                   |
| D802       | MA4100MTA    | DIODE                   | △                 |            |              |                            |                   |
| D803-806   | MA165        | DIODE                   |                   | RL701      | RSY0013M-0   | RELAY                      | △                 |
| D807       | MA4100MTA    | DIODE                   | △                 |            |              |                            |                   |
| D808       | SLR-305VC    | L. E. D.                |                   |            |              | CONNECTOR(S) AND SOCKET(S) |                   |
| D813, 814  | MA165        | DIODE                   |                   |            |              |                            |                   |
| D817       | MA165        | DIODE                   |                   | CN501-1-3  | RJS1A6604    | CONNECTOR (4P)             |                   |
| D851, 852  | MA165        | DIODE                   |                   | CN502-1, 2 | RJS1A6605    | CONNECTOR (5P)             |                   |
| D861, 862  | MA165        | DIODE                   |                   | CN601      | RJU057W004   | SOCKET (4P)                |                   |
|            |              | VARIABLE RESISTOR(S)    |                   | CN701-708  | RJS1A1101T1  | SOCKET (1P)                |                   |
|            |              |                         |                   | CN703-1, 2 | RJS1A6604    | CONNECTOR (4P)             |                   |
| VR601      | EVJYV1F03G24 | TREBLE                  |                   | CN709, 710 | RJS1A1101T1  | SOCKET (1P)                | (E, EB, EG, GN)   |
| VR602      | EVJYV1F03G24 | BASS                    |                   | CN712      | RJS1A1101T1  | SOCKET (1P)                | (E, EB, EG, GN)   |
| VR603      | EVJY91F03C24 | S. BASS                 |                   | CN715      | RJU057W004   | SOCKET (4P)                | (E, EB, EG, GN)   |
| VR808, 809 | EVNDXAA00B23 | OUTPUT POWER METER      |                   | CN801      | RJU057W004   | SOCKET (4P)                |                   |
|            |              |                         |                   | CP601      | RJT057W004-1 | CONNECTOR (4P)             |                   |
|            |              | THERMISTOR(S)           |                   | CP715      | RJT057W004-1 | CONNECTOR (4P)             |                   |
|            |              |                         |                   | CP801      | RJT057W004-1 | CONNECTOR (4P)             |                   |
| TH801, 802 | ERTD2ZHL104T | THERMISTOR              |                   | J704B      | RJU057W004   | SOCKET (4P)                | (GC)              |
|            |              | COIL(S)                 |                   |            |              | JACK(S)                    |                   |
| L501, 502  | SLQY07G-40   | COIL                    |                   | JK201      | RJT065K20    | CONNECTOR (20P)            |                   |
| L701       | RLQZ271M     | COIL                    | (EG) △            | JK301      | RJJ67TA02    | HEADPHONES JACK            |                   |
|            |              | TRANSFORMER(S)          |                   | JK351      | SJT3213      | CONNECTOR (2P)             | (GC)              |
|            |              |                         |                   | JK501      | RJR0054      | SPEAKER TERMINAL           |                   |
| PT701      | RTP2M5B004   | POWER TRANSFORMER       | (E, EB, EG, GN) △ | JK701      | SJS9236      | AC INLET                   | (E, EB, EG, GC) △ |
| PT701      | RTP2M5G003   | POWER TRANSFORMER       | (GC) △            | JK701      | SJSD16       | AC INLET                   | (GN) △            |
|            |              | LAMP(S)                 |                   | JK702      | SJS702-1     | CONNECTOR (7P)             | (GC)              |
|            |              |                         |                   |            |              | EARTH TERMINAL(S)          |                   |
| PL801-806  | XAMR131      | LAMP                    |                   | E501       | SNE1004-2    | GND PLATE                  |                   |
|            |              | FUSE(S)                 |                   | E701       | SNE1004-2    | GND PLATE                  |                   |
|            |              |                         |                   |            |              | FUSE HOLDER(S)             |                   |
| F1         | XBA2C12TB0S  | FUSE, 250V T1. 25A      | (E, EB, EG, GN) △ | FC1-6      | EYF52BC      | FUSE HOLDER                |                   |
| F1         | XBA2C25TB0   | FUSE, 250V T2. 5A       | (GC) △            | FC7, 8     | EYF52BC      | FUSE HOLDER                | (GC)              |
| F2         | XBA2C12TB0S  | FUSE, 250V T1. 25A      | (GC) △            |            |              |                            |                   |
| F701, 702  | XBA2C16TB0   | FUSE, 250V T1. 6A       | △                 |            |              |                            |                   |

## PACKAGING

- ST-CA1060: Stereo Tuner
- SL-CA1060: Compact Disc Player
- RS-CA1060: Cassette Deck



- SE-CA1060: Stereo Amplifier



# RESISTORS AND CAPACITORS

Notes : \* Capacity values are in microfarads ( $\mu\text{F}$ ) 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      | Ref. No.  | Part No.     | Values & Remarks                  | Ref. No.  | Part No.     | Values & Remarks |
|-----------|--------------|-----------------------|-----------|--------------|-----------------------------------|-----------|--------------|------------------|
|           |              | RESISTORS             |           |              |                                   |           |              |                  |
| R159      | ERDS2TJ100   | 1/4W 10               | R574      | ERDS2TJ564   | 1/4W 560K                         | R829      | ERDS2TJ471   | 1/4W 470         |
| R217, 218 | ERDS2TJ102   | 1/4W 1K               | R575      | ERDS2TJ223   | 1/4W 22K                          | R833, 834 | ERDS2TJ471   | 1/4W 470         |
| R223, 224 | ERDS2TJ472   | 1/4W 4.7K             | R601, 602 | ERDS2TJ682T  | 1/4W 6.8K                         | R836, 837 | ERDS2TJ222   | 1/4W 2.2K        |
| R253, 254 | ERDS2EJ121   | 1/4W 120              | R603, 604 | ERDS2TJ333   | 1/4W 33K                          | R845, 846 | ERDS2TJ103   | 1/4W 10K         |
| R255      | ERDS2TJ154   | 1/4W 150K             | R605, 606 | ERDS2TJ123   | 1/4W 12K                          | R851      | ERDS2TJ221   | 1/4W 220         |
| R256      | ERDS2TJ105T  | 1/4W 1M               | R607, 608 | ERDS2TJ472   | 1/4W 4.7K                         | R852      | ERDS2TJ103   | 1/4W 10K         |
| R259      | ERDS2TJ561   | 1/4W 560              | R609, 610 | ERDS2TJ332   | 1/4W 3.3K                         | R853-855  | ERDS2TJ222   | 1/4W 2.2K        |
| R291, 292 | ERDS2TJ563   | 1/4W 56K              | R611, 612 | ERDS2TJ122   | 1/4W 1.2K                         | R861, 862 | ERDS2EJ121   | 1/4W 120         |
| R301, 302 | ERDS2TJ223   | 1/4W 22K              | R613, 614 | ERDS2TJ683   | 1/4W 68K                          | R863      | ERDS2TJ222   | 1/4W 2.2K        |
| R303, 304 | ERDS2TJ333   | 1/4W 33K              | R615, 616 | ERDS2TJ123   | 1/4W 12K                          | R864, 865 | ERDS2TJ221   | 1/4W 220         |
| R305, 306 | ERDS2TJ223   | 1/4W 22K              | R617, 618 | ERDS2TJ562   | 1/4W 5.6K                         | R871, 872 | ERDS2TJ392T  | 1/4W 3.9K        |
| R307, 308 | ERDS2TJ102   | 1/4W 1K               | R619, 620 | ERDS2TJ681   | 1/4W 680                          |           |              | CAPACITORS       |
| R309-312  | ERDS2EJ121   | 1/4W 120              | R621, 622 | ERDS2TJ563   | 1/4W 56K                          |           |              |                  |
| R351      | ERDS2TJ183T  | 1/4W 18K (GC)         | R623, 624 | ERDS2TJ123   | 1/4W 12K                          | C251      | ECEA0JKA221B | 6.3V 220U        |
| R352      | ERDS2TJ473   | 1/4W 47K (GC)         | R631-634  | ERDS2TJ224T  | 1/4W 220K                         | C301, 302 | ECEA1HKA3R3B | 50V 3.3U         |
| R353      | ERDS2TJ183T  | 1/4W 18K (GC)         | R651, 652 | ERDS2TJ561   | 1/4W 560                          | C303, 304 | ECBT1H150J5  | 50V 15P          |
| R354      | ERDS2TJ104   | 1/4W 100K (GC)        | R653, 654 | ERDS2EJ121   | 1/4W 120                          | C305, 306 | ECBT1H330J5  | 50V 33P          |
| R355      | ERDS2TJ103   | 1/4W 10K (GC)         | R655      | ERDS2TJ561   | 1/4W 560                          | C307, 308 | ECEA1CKA220B | 16V 22U          |
| R356      | ERDS2TJ332   | 1/4W 3.3K (GC)        | R701      | ERQ16NKW2R2E | 1/6W 2.2 $\Delta$                 | C353      | ECEA1HKA2R2B | 50V 2.2U (GC)    |
| R357      | ERDS1FVJ100T | 1/2W 10 (GC) $\Delta$ | R702      | ERD2FCVJ4R7T | 1/4W 4.7 (E, EB, EG, GN) $\Delta$ | C361      | ECEA1CKA101B | 16V 100U (GC)    |
| R358      | ERDS1FVJ220T | 1/2W 22 (GC) $\Delta$ | R702      | ERQ16NKW2R2E | 1/6W 2.2 (GC) $\Delta$            | C362      | ECEA1CKA100B | 16V 10U (GC)     |
| R359      | ERDS2TJ273   | 1/4W 27K (GC)         | R703, 704 | ERDS2TJ562   | 1/4W 5.6K                         | C371      | RCE0JKA221BV | 6.3V 220U (GC)   |
| R360      | ERDS2TJ222   | 1/4W 2.2K (GC)        | R705, 706 | ERG1SJ471E   | 1W 470 $\Delta$                   | C372      | ECBT1E223ZF  | 25V 0.022U (GC)  |
| R361      | ERDS2TJ474   | 1/4W 470K (GC)        | R707      | ERDS1FVJ820T | 1/2W 82 $\Delta$                  | C373      | ECBT1H104ZF5 | 50V 0.1U (GC)    |
| R362      | ERDS2TJ102   | 1/4W 1K (GC)          | R708      | ERDS2TJ472   | 1/4W 4.7K                         | C381, 382 | ECBT1E103ZF  | 25V 0.01U        |
| R363, 364 | ERDS2TJ472   | 1/4W 4.7K (GC)        | R709      | ERG1SJ391E   | 1W 390 $\Delta$                   | C397, 398 | ECBT1E103ZF  | 25V 0.01U        |
| R371, 372 | ERDS2TJ273   | 1/4W 27K (GC)         | R711      | ERG1SJ331E   | 1W 330 $\Delta$                   | C501, 502 | ECA1HAP3R3B  | 50V 3.3U         |
| R373      | ERDS2TJ222   | 1/4W 2.2K (GC)        | R716      | ERDS2TJ393   | 1/4W 39K                          | C503, 504 | ECBT1H151KB5 | 50V 150P         |
| R374      | ERDS2TJ273   | 1/4W 27K (GC)         | R717      | ERDS2TJ473   | 1/4W 47K                          | C505, 506 | ECBT1H150J5  | 50V 15P          |
| R375      | ERDS2TJ822   | 1/4W 8.2K             | R761-764  | ERDS2TJ1R0   | 1/4W 1.0                          | C509, 510 | ECA1HAP220B  | 50V 22U          |
| R391      | ERDS2TJ393   | 1/4W 39K              | R765      | ERDS2TJ102   | 1/4W 1K                           | C511, 512 | ECBT1H821KB5 | 50V 820P         |
| R501, 502 | ERDS2TJ102   | 1/4W 1K               | R766      | ERDS2TJ223   | 1/4W 22K                          | C513      | ECA1H470B    | 50V 47U          |
| R503-506  | ERDS2TJ563   | 1/4W 56K              | R780      | ERDS2TJ822   | 1/4W 8.2K                         | C514      | ECA2AAP100B  | 100V 10U         |
| R509, 510 | ERDS2TJ182   | 1/4W 1.8K             | R801, 802 | ERDS2TJ272T  | 1/4W 2.7K                         | C515, 516 | ECBT1H104ZF5 | 50V 0.1U         |
| R511      | ERDS2TJ334   | 1/4W 330K             | R803, 804 | ERDS2TJ104   | 1/4W 100K                         | C571      | ECEA0JKA101B | 6.3V 100U        |
| R512      | ERDS2TJ154   | 1/4W 150K             | R805, 806 | ERDS2TJ155   | 1/4W 1.5M                         | C572      | ECBT1E223ZF  | 25V 0.022U       |
| R513      | ERDS2TJ684   | 1/4W 680K             | R807, 808 | ERDS2TJ222   | 1/4W 2.2K                         | C599      | ECBT1C103MS5 | 16V 0.01U        |
| R514      | ERD25FJ470   | 1/4W 47 $\Delta$      | R809, 810 | ERDS2TJ103   | 1/4W 10K                          | C601, 602 | ECEA1HKA3R3B | 50V 3.3U         |
| R515, 516 | ERDS1FVJ100T | 1/2W 10 $\Delta$      | R811, 812 | ERDS2TJ821   | 1/4W 820                          | C603-606  | ECBT1H101KB5 | 50V 100P         |
| R517, 518 | ERD25FVJ100T | 1/4W 10 $\Delta$      | R815      | ERDS2TJ103   | 1/4W 10K                          | C607, 608 | ECBT1H151KB5 | 50V 150P         |
| R523      | ERDS2TJ223   | 1/4W 22K              | R816      | ERDS2TJ104   | 1/4W 100K                         | C609, 610 | ECBT1E103ZF  | 25V 0.01U        |
| R524      | ERDS2TJ103   | 1/4W 10K              | R817, 818 | ERDS2TJ221   | 1/4W 220                          | C611-614  | ECEA1HKA3R3B | 50V 3.3U         |
| R525      | ERDS2TJ223   | 1/4W 22K              | R819      | ERDS2TJ104   | 1/4W 100K                         | C615, 616 | ECEA1HKA010B | 50V 1U           |
| R571      | ERDS2TJ823T  | 1/4W 82K              | R820      | ERDS2TJ102   | 1/4W 1K                           | C617, 618 | ECQV1H124JM3 | 50V 0.12U        |
| R572      | ERDS2TJ124T  | 1/4W 120K             | R821, 822 | ERDS2TJ123   | 1/4W 12K                          | C619, 620 | ECEA1HKA010B | 50V 1U           |
| R573      | ERDS2TJ563   | 1/4W 56K              | R823, 824 | ERDS2TJ154   | 1/4W 150K                         | C621, 622 | ECQV1H334JM3 | 50V 0.33U        |
|           |              |                       | R825, 826 | ERDS2TJ223   | 1/4W 22K                          | C631, 632 | ECEA1HKA3R3B | 50V 3.3U         |
|           |              |                       | R827, 828 | ERDS2TJ102   | 1/4W 1K                           | C633, 634 | ECQ1H272JF3  | 50V 2700P        |

| Ref. No.  | Part No.     | Values & Remarks   | Ref. No.  | Part No.     | Values & Remarks   | Ref. No.    | Part No.     | Values & Remarks |
|-----------|--------------|--------------------|-----------|--------------|--------------------|-------------|--------------|------------------|
| C653      | ECEA1CKA101B | 16V 100U           | C731, 732 | ECKR1H103ZF5 | 50V 0.01U          | C810        | ECEA1HKA4R7B | 50V 4.7U         |
| C701, 702 | ECES1H682VNG | 50V 6800U $\Delta$ | C761      | ECA1EM102B   | 25V 1000U $\Delta$ | C811        | ECBT1H220J5  | 50V 22P          |
| C703, 704 | ECEA1CKA330B | 16V 33U            | C762      | ECBT1E103ZF  | 25V 0.01U          | C812        | ECBT1H151KB5 | 50V 150P         |
| C705, 706 | ECBT1H104ZF5 | 50V 0.1U           | C799      | ECBT1H104ZF5 | 50V 0.1U           | C851, 852   | ECEA1HKA3R3B | 50V 3.3U         |
| C707      | ECA1HM471B   | 50V 470U $\Delta$  | C801, 802 | ECEA1EKN3R3B | 25V 3.3U           | C855, 856   | ECBT1C682KR5 | 16V 6800P        |
| C708      | ECEA1CKA100B | 16V 10U            | C803, 804 | ECEA1HKA2R2B | 50V 2.2U           | C857        | ECBT1E103ZF  | 25V 0.01U        |
| C709, 710 | ECBT1E103ZF  | 25V 0.01U          | C805      | ECEA1HKA4R7B | 50V 4.7U           | C905, 906   | ECBT1H101KB5 | 50V 100P         |
| C711      | ECQE1104KF3  | 100V 0.1U          | C806      | ECEADJKA221B | 6.3V 220U          | C1101, 1102 | ECBT1E223ZF  | 25V 0.022U       |
| C712      | ECBT1E223ZF  | 25V 0.022U         | C807      | ECBT1H104ZF5 | 50V 0.1U           | C1103-1106  | ECBT1H102KB5 | 50V 1000P        |
| C714      | ECKR1H103ZF5 | 50V 0.01U          | C808, 809 | ECBT1E223ZF  | 25V 0.022U         |             |              |                  |

## REPLACEMENT PARTS LIST

**Notes:** \*Important safety notice:

Components identified by  $\Delta$  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

\*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)

Parts without these indications can be used for all areas.

\*Remote Control Ass'y: Supply period for three years from termination of production.

\*The "(SF)" mark denotes the standard part.

| Ref. No. | Part No.     | Part Name & Description      | Remarks | Ref. No. | Part No.     | Part Name & Description  | Remarks              |
|----------|--------------|------------------------------|---------|----------|--------------|--------------------------|----------------------|
|          |              |                              |         | A2       | REEO393      | SPEAKER CORD             |                      |
|          |              | PACKING MATERIALS            |         | A3       | REX0511      | FLAT CABLE (LONG) (15P)  |                      |
|          |              |                              |         | A4       | REX0608      | FLAT CABLE (SHORT) (20P) |                      |
| P1       | RPG2129-1    | PACKING CASE (SYSTEM)        | (E, EG) | A5       | RJAO019-2A   | AC POWER SUPPLY CORD     | (E, EG, GC) $\Delta$ |
| P1       | RPG2131      | PACKING CASE (SYSTEM)        | (EB)    | A5       | VJAO733      | AC POWER SUPPLY CORD     | (EB) $\Delta$ (SF)   |
| P1       | RPG2132      | PACKING CASE (SYSTEM)        | (GC)    | A5       | RJAO036-K    | AC POWER SUPPLY CORD     | (GN) $\Delta$ (SF)   |
| P1       | RPG2133      | PACKING CASE (SYSTEM)        | (GN)    | A6       | RFKSECA1060E | INSTRUCTION MANUAL ASS'Y | (E)                  |
| P2       | RPG2230      | PACKING CASE (AMPLIFIER)     |         | A6       | RFKSCA1060EB | INSTRUCTION MANUAL ASS'Y | (EB)                 |
| P2       | RPG2231      | PACKING CASE (DECK)          |         | A6       | RQT2552-B    | INSTRUCTION MANUAL       | (GN)                 |
| P2       | RPG2232      | PACKING CASE (TUNER/CD)      |         | A6       | RQT2554-2E   | INSTRUCTION MANUAL       | (EG)                 |
| P3       | RPNO814      | CUSHION (AMPLIFIER)          |         | A6       | RQT2553-2G   | INSTRUCTION MANUAL       | (GC)                 |
| P3       | RPNO815      | CUSHION (DECK)               |         | A7       | RQA0013      | WARRANTY CARD            | (E, EB, EG)          |
| P3       | RPNO816      | CUSHION (TUNER/CD)           |         | A7       | RQX7433ZA    | WARRANTY CARD            | (GN)                 |
| P4       | RPQ0458      | SPACER                       |         | A8       | RQCBO169     | SERVICENTER LIST         |                      |
| P5       | SPP740       | PROTECTION BAG (UNIT)        |         | A9       | RSA0007      | FM INDOOR ANTENNA        |                      |
| P6       | RPQF0047     | ACCESSORIES BOX              |         | A10      | RSA0012      | AM LOOP ANTENNA          |                      |
| P7       | XZB25X34C03Y | PROTECTION BAG (F. B., ACC.) |         | A10-1    | RMND244      | ANTENNA HOLDER           |                      |
|          |              | ACCESSORIES                  |         | A10-2    | XTN3+12AFZ   | SCREW                    |                      |
|          |              |                              |         | A11      | SJP9009      | ATTACHMENT PLUG          | (EB) $\Delta$        |
|          |              |                              |         | A12      | RFE0014      | ANTENNA PLUG             | (GC, GN)             |
| A1       | RAK-CH143WH  | REMOTE CONTROL TRANSMITTER   |         | A13      | SJP5213-1    | POWER PLUG ADAPTOR       | (GC) $\Delta$        |
| A1-1     | RKK0057-K    | BATTERY COVER                |         | A14      | RQLA0134     | VOLTAGE CAUTION LABEL    | (GC)                 |