

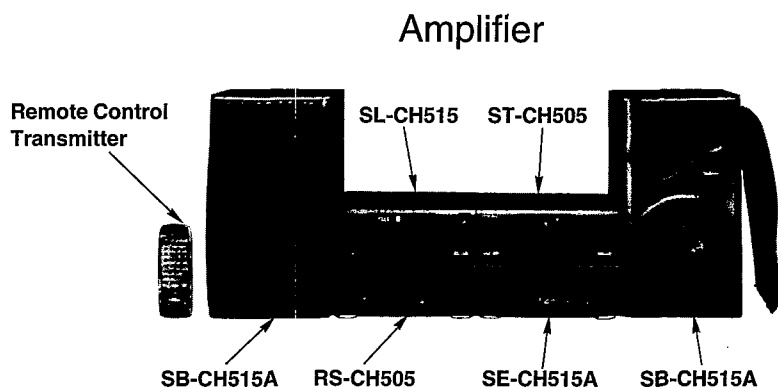
Service Manual

Amplifier

SE-CH515A

Colour

(K) Black Type



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

Areas

| Suffix for Model No. | Area | Colour |
|----------------------|-------------------|--------|
| (E) | Europe | (K) |
| (EB) | Great Britain | |
| (EG) | Germany and Italy | |

System: SC-CH515

Specifications

Power output

DIN 1 kHz, THD 1%, both channel driven
2×50 W (6Ω)

Total harmonic distortion

Rated power at 1 kHz 1% (6Ω)
Half power at 1 kHz 0.09% (6Ω)

Load impedance

MAIN 6~8Ω
SURROUND 8Ω

S/N (rated power) 84 dB

Input MIC; 600Ω, Ø6.2

Output HEADPHONE; 32Ω, Ø3.5

■ General

Power consumption 170 W

Power supply

For (E) (EG) areas 230 V, AC 50/60 Hz

For (EB) area 230 V~240 V, AC 50/60 Hz

Dimensions (W×H×D) 270×118.5×336 mm

Weight 4.4 kg

Notes:

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

| System | Tuner | Compact disc player | Amplifier | Cassette deck | Speakers |
|----------|----------|---------------------|-----------|---------------|------------|
| SC-CH515 | ST-CH505 | SL-CH515 | SE-CH515A | RS-CH505 | *SB-CH515A |

*Made in PAES

Technics

■ Contents

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■ Before Repair

- (1) Turn off the power supply. Using a 10Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
- (2) 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 should be shown below with respect to supply voltage 230 V~240 V.

| | | |
|------------------------|-----------|-----------|
| Power supply voltage | AC 230 V | AC 240 V |
| Consumed current 50 Hz | 80~180 mA | 80~180 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 functions 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:

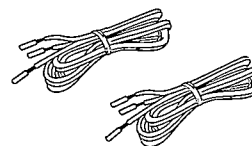
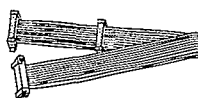
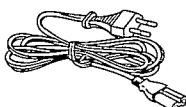
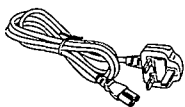
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

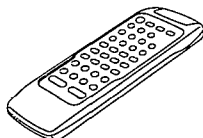
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ Accessories

- | | | |
|--|--|---|
| AC power supply cord1 pc. (VJA0733) ...for (EB) area | Flat cable (Long) 1 pc. (REX0511) | Speaker cords 2 pcs. (REE0499) |
| (RJA0019-2K) ...for (E) (EG) areas | | |



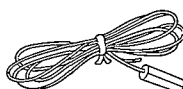
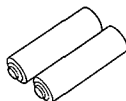
- | | | |
|--|--|---------------------------------------|
| Remote control transmitter1 pc. (RAK-CH121WH) | Flat cable (Short)1 pc. (REX0512) | AM loop antenna (RSA0010) 1 pc. |
|--|--|---------------------------------------|



- | |
|--------------------------------------|
| Antenna holder (RMN0244) 1 pc. |
| Screw (XTN3+ 10AFZ) 1 pc. |



- | | | |
|---|--|--|
| Remote control batteries 2 pcs. (UM-4, AAA, R03) | FM indoor antenna 1 pc. (RSA0007) | Attachment plug 1 pc. (SJP9009)...for (EB) area |
|---|--|--|



■ Caution for AC Mains Lead

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

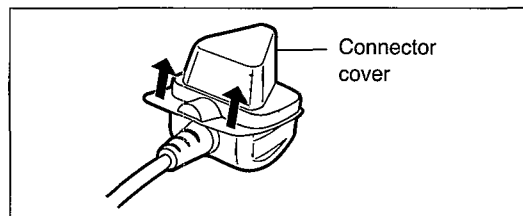
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL \perp OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

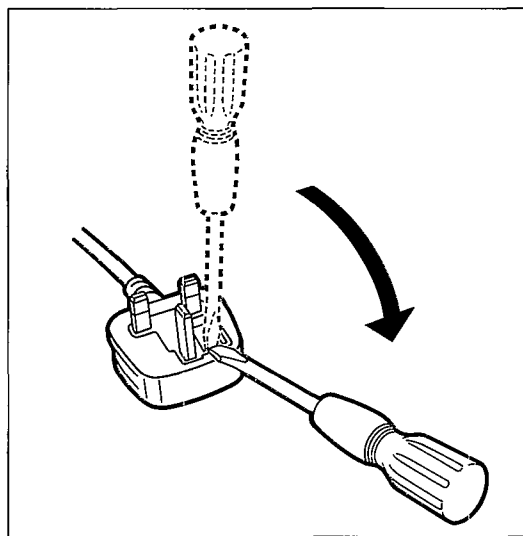
Before use

Remove the connector cover as follows.

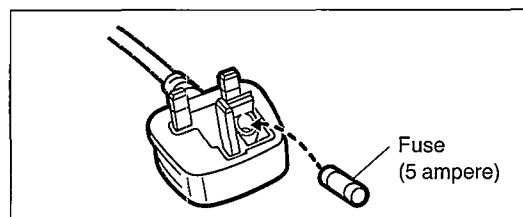


How to replace the fuse

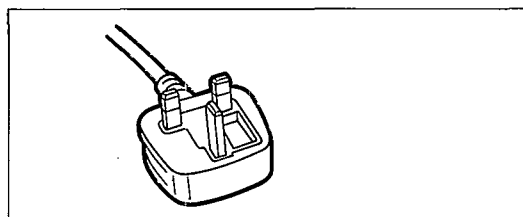
1. Open the fuse cover with a screwdriver.



2. Replace the fuse.



3. Close the fuse cover.



■ Stacking the Components

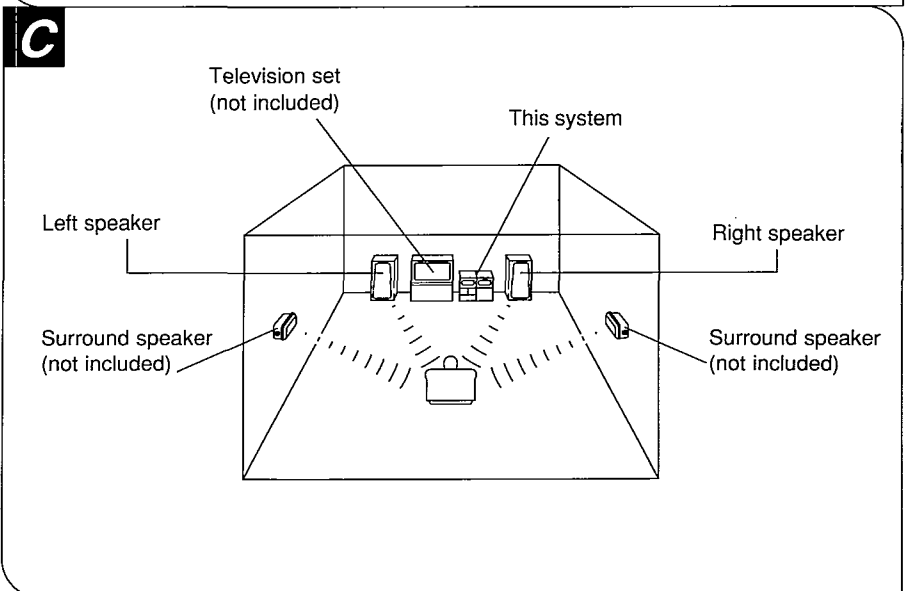
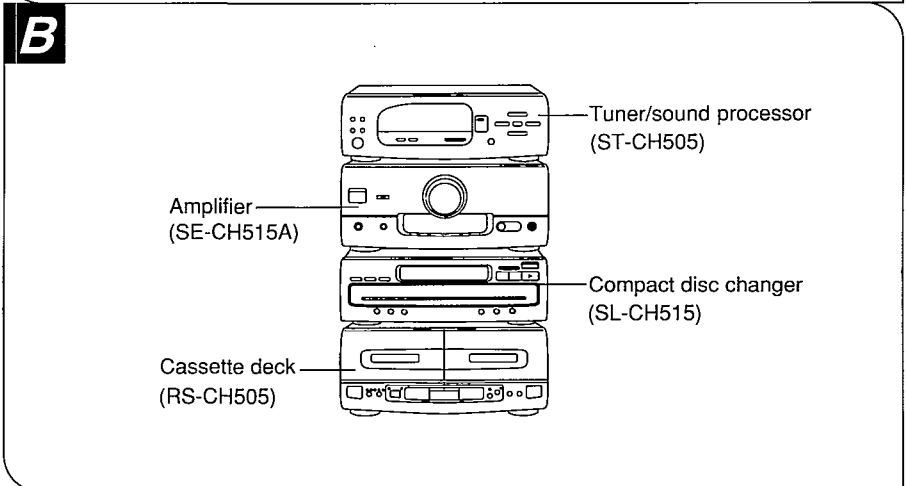
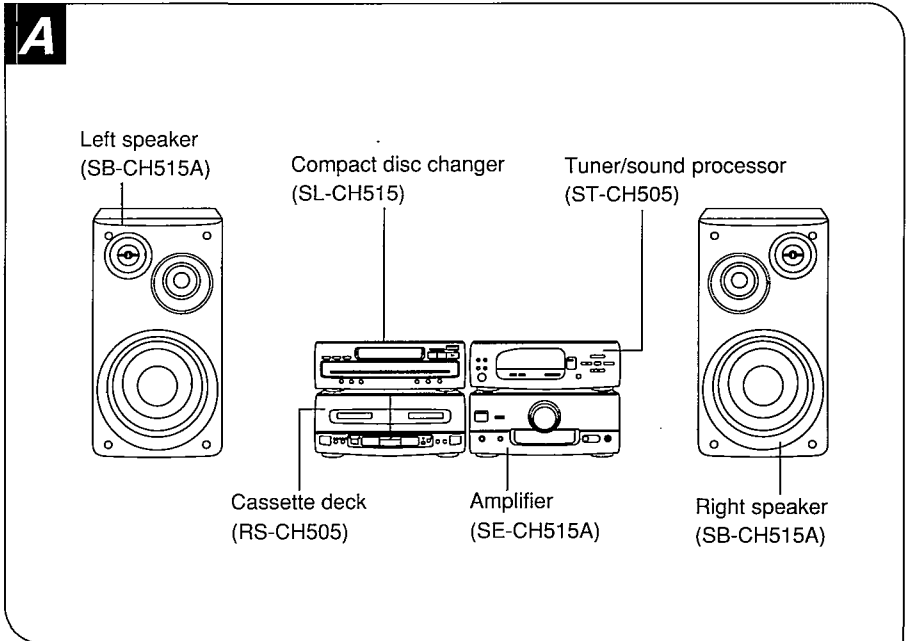
Install the various components as shown below.

Horizontal stacking **A**

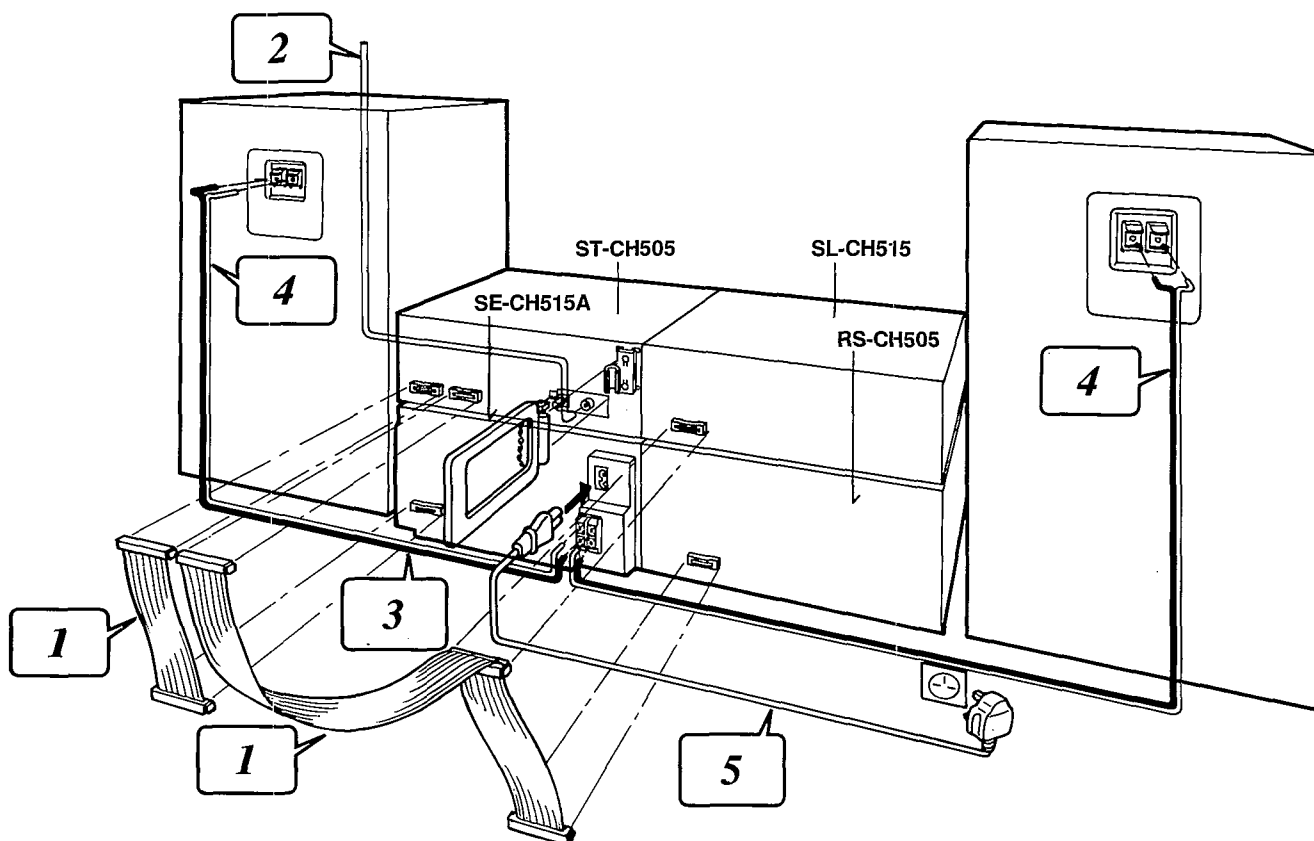
Vertical stacking **B**

System layout example **C**

To produce a better stereo sound, install both speakers away from the system. Surround sound effect differs according to where you install the surround speakers. Install them as you like.

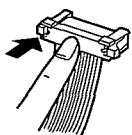


■ Connections

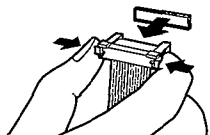


1 Connect the flat cable.

Connecting



Disconnecting

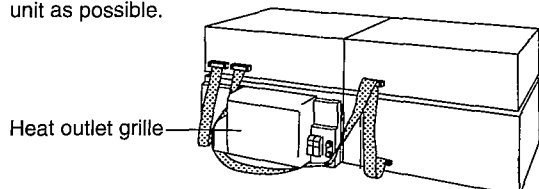


1. Connect the shorter flat cable to the terminal of the tuner/sound processor and amplifier.
2. Connect the longer flat cable to the terminal of the tuner/sound processor, compact disc player, and cassette deck.

Route the cable horizontally (underneath the heat outlet grille) so that the side with the white-coloured lead is positioned at the front.

Be sure to connect the blue-coloured connector to B1 (tuner/sound processor).

After connection, fold and press the cable as flat to the back of the unit as possible.

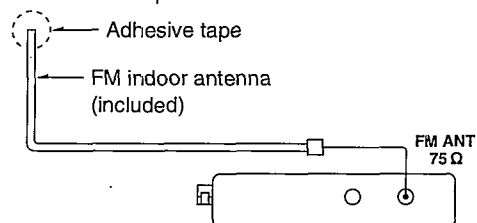


Heat outlet grille

Do not try connecting or disconnecting the flat cable while the power is switched to ON.

2 Connect the FM indoor antenna.

Install the antenna on a wall at a height and in a direction which result in the best reception.

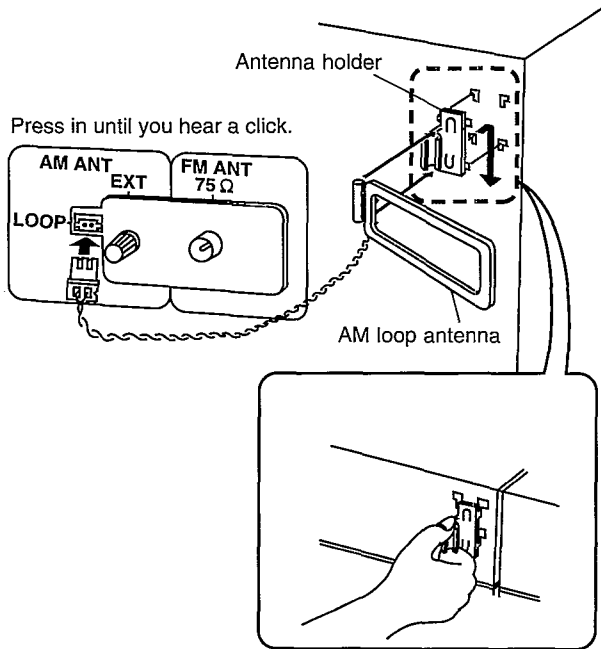


The tip of the internal antenna wire should not come into contact with any metal objects.

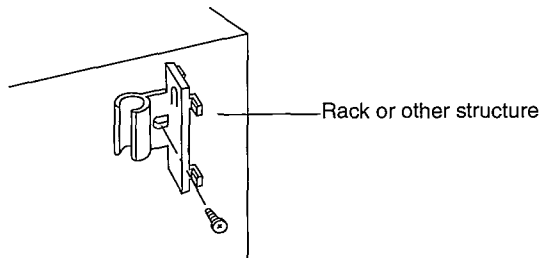
When you cannot get a good reception with this FM indoor antenna, we recommend you install an FM outdoor antenna. (Not included. See page 8.)

3 Connect the AM (MW/LW) loop antenna.

1. Attach the antenna holder to the rear panel of the tuner/sound processor.
2. Clamp the AM loop antenna antenna to the antenna holder and connect the antenna terminal to the rear panel of the tuner/sound processor.
3. Position the loop for the best reception.



You may attach the AM antenna holder with screw (included) to a rack or other structure. In this case, attach as showed in the figure below.



Note

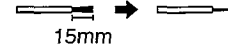
To minimize noise pickup, keep the AM loop antenna cord along the heat outlet grille, and away from the flat cables.

4 Connect the right (R) and left (L) speaker cables.

Notes

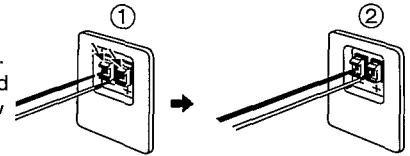
- Be sure to connect speaker cables before connecting the AC power supply cord.
- The load impedance of any speaker used with this unit must be 6–8Ω.
- Match the two wires from the left and right speaker cables with the same coloured levers of the speaker terminals, then insert the wires into the respective terminals.

1. Strip off the outer covering, and twist the center conductor.

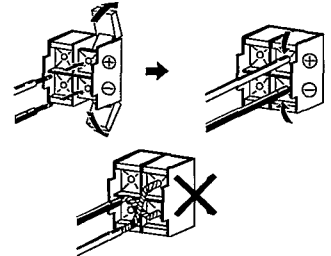


Make sure the bare ends of the wires are not unraveled. (If they are, twist them tight again.)

2. ① Tilt the lever back and insert the wire.
- ② Close the lever and pull the cord gently to be sure that it is secured.



3. Insert the wire to the rear panel of the amplifier, and close the lever.



Notes

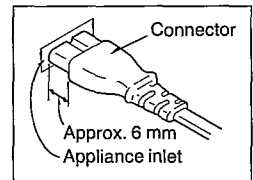
- To prevent damage to circuitry; never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (red) wires to positive (+) terminals and negative (black) wires to negative (-) terminals.

BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 3 BEFORE PROCEEDING TO STEP 5.

5 Connect the AC power supply cord after you have connected all other cables.

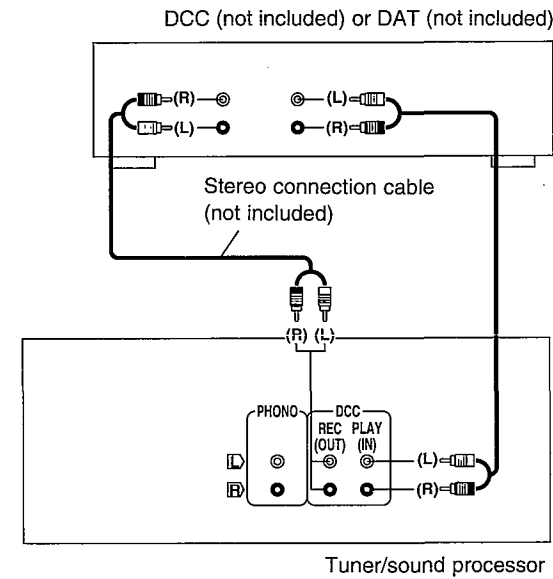
Insertion of Connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.

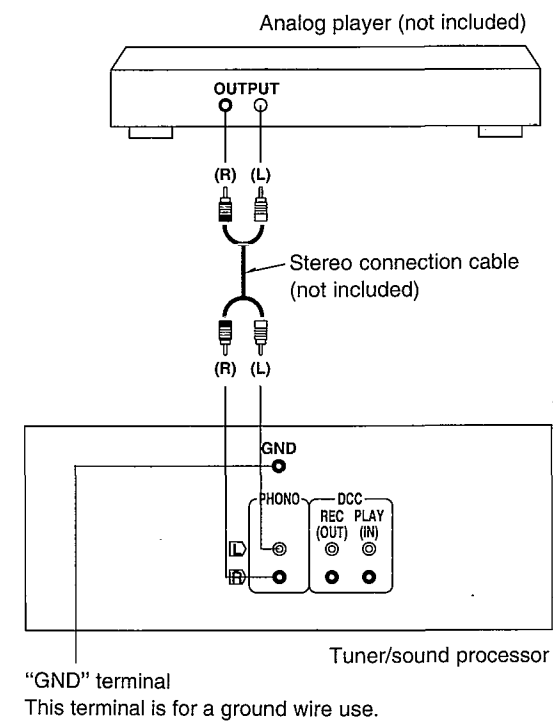


External unit connection

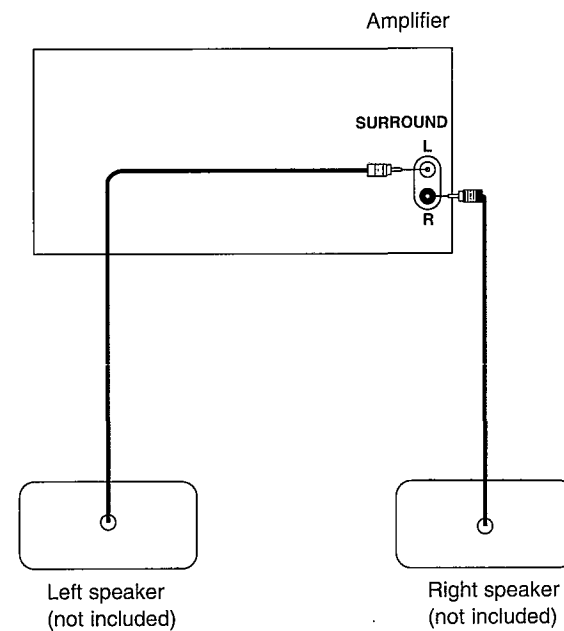
DCC (digital compact cassette deck) or DAT (digital audio tape deck)



Analog player



Rear surround speakers



Note

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

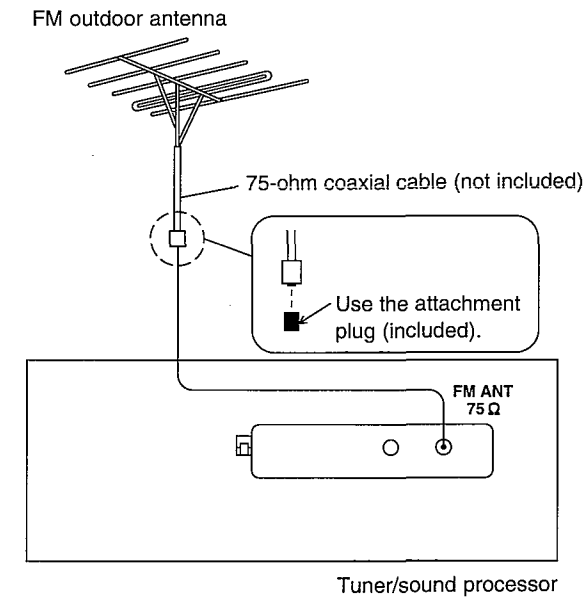
Install each speaker left and right at the back of the listening space.

Optional antenna connections

FM outdoor antenna (not included)

If the FM indoor antenna does not provide satisfactory reception of FM broadcasts, use an outdoor antenna.

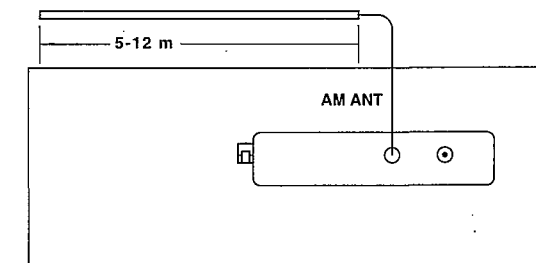
You may need an outdoor antenna if you use this system in a mountainous region or inside a reinforced-concrete building, etc. An outdoor antenna should be installed by a competent technician only.



AM (MW/LW) outdoor antenna (not included)

An outdoor antenna may be required in a mountainous region, or if this system is located inside a reinforced-concrete building, etc.

Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.

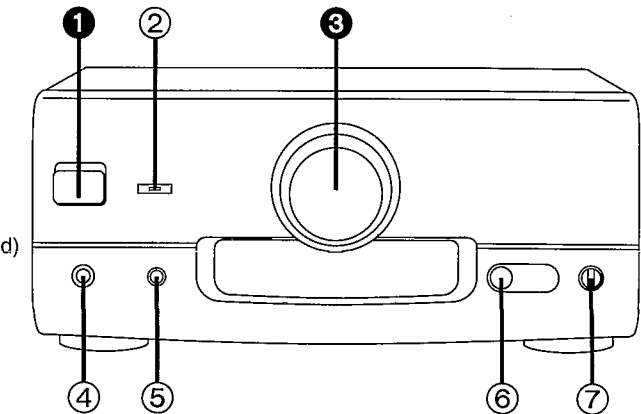
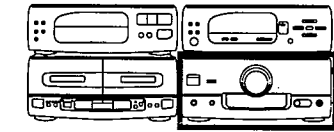


Note

Do not remove the AM loop antenna.

Location of Controls

The functions indicated by the numbers with black background (for example ❶) can also be activated from the remote control transmitter.



Amplifier section

No. Name

- ❶ **Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/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.
- ❷ **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.
- ❸ **Volume control (VOLUME)**
- ❹ **Headphones jack (PHONES) (∅3.5, 32Ω)**
- ❺ **Range (Output level) select button (RANGE)**
- ❻ **Microphone jack (MIC) (∅6.2, 600Ω)**
- ❼ **Microphone volume control (MIC VOLUME)**

■ Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

| Problem | Probable cause(s) | Suggested remedy |
|--|---|--|
| Problems common to all systems | | |
| There is no sound when the power is ON. | Volume is set too low. | Adjust the volume level with the volume control on the amplifier. |
| The location of the various musical instruments is not well defined. | The (+) and (-) connections to one of the speakers are reversed. | Connect the speaker cord correctly. |
| The left and right sounds are reversed. | The left and right connections to the speaker are reversed. | Connect the speaker cords correctly. |
| When listening to the external unit, the left and right sounds are reversed. | The left and right connections to the external unit are reversed. | Connect the external unit's cord correctly. |
| Only one speaker is emitting sound. | One of the wires of the speaker cord is disconnected. | Connect the speaker cord correctly. |
| | The balance control is set to left or right. | Set the balance to the center position. |
| There is no sound when a source is being played. | The (+) and (-) wire of the speaker cords are shorted. | Switch the system to the standby mode, and reconnect the speaker cords so that they are not shorted. Then switch on the power. |
| "U70" display appears on the compact disc changer or tuner/sound processor display. | Flat cables are not connected steadily. | Connect the flat cables steadily. |

| While listening to FM broadcasts | | |
|---|--|--|
| There is a "rushing noise" during a stereo broadcast which is not audible during a monaural broadcast. | The transmitting station is a long distance away. | <ul style="list-style-type: none"> •If you are using an indoor antenna, change to an outdoor antenna. •If you are using a high-grade outdoor antenna, try changing the installation location, height, and orientation. |
| You hear excessive noise during a stereo broadcast, and occasionally the sound disappears. | The installation location and orientation of the antenna are unsuitable. | |
| The stereo indicator flickers and does not light completely. | The transmitting station is a long distance away. The power of the TV set or VCR is ON. | Try switching off the TV set or VCR. |
| The sound during a stereo broadcast is highly distorted. | There is a building or mountain nearby. [Distortion is caused by interference between the signal from the transmitting station (direct wave) and the signal reflected from the building or mountain (reflected wave).] | Use a high-grade outdoor antenna, and install it in a good location, height, and orientation for reception. |

| Problem | Probable cause(s) | Suggested remedy |
|--|---|--|
| While listening to LW/MW broadcasts | | |
| You hear an unusual beat sound. | You are using the system at the same time you are playing a TV set. | Switch off the TV set, or use the system further away from it. |
| You hear a low-frequency hum. | The antenna wire is near the power cord. | Separate the antenna wire from the power cord. |

| When there is a television set nearby | | |
|--|--|---|
| The picture on the TV disappears or stripes appear on the screen. | The location and orientation of the antenna are incorrect. | If you are using an indoor antenna, change to an outdoor antenna. |
| | The wiring at the back of the system is unsuitable. | Separate the antenna wire of the TV set from the system. |

| While listening to tapes | | |
|---|--|--|
| Sound is low, intermittent, or poor quality, noisy, scratchy, or unsteady. | Heads are dirty. | Clean the heads. |
| | Dolby noise reductions is set in the wrong position. | Set it to match the Dolby NR recording mode. |
| The deck does not enter the recording mode. | The erase-prevention tabs are removed from the cassette. | Attach tape to cover the space left by removal of the erase-prevention tabs. |

| While listening to compact discs | | |
|---|--|--|
| The display will not show the correct indication. Disc play does not start when you press the play button. | The disc is not positioned correctly in the disc tray. | Load the disc on the tray correctly. |
| | The disc is loaded upside down. | Reload the disc. |
| | The disc is dirty. | Wipe the disc with a soft cloth. |
| | The disc is scratched. | Replace the disc with a new one. |
| | The disc is badly warped. | |
| | The disc is a nonstandard one. | Replace the disc with a different one. |
| | There is condensation inside the disc player. | Switch the power ON, and then wait or 60 minutes before using the disc player. |

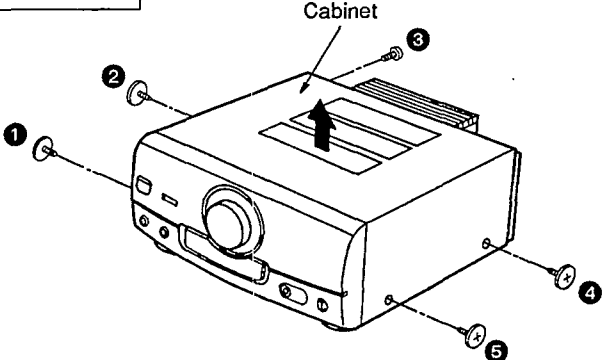
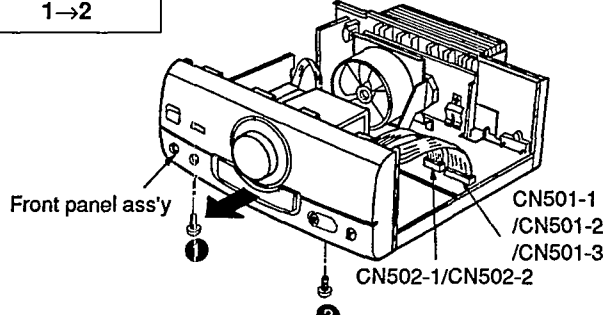
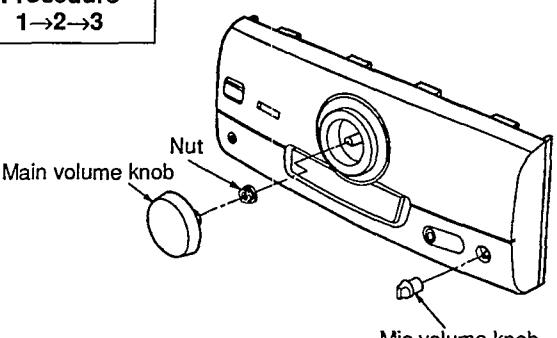
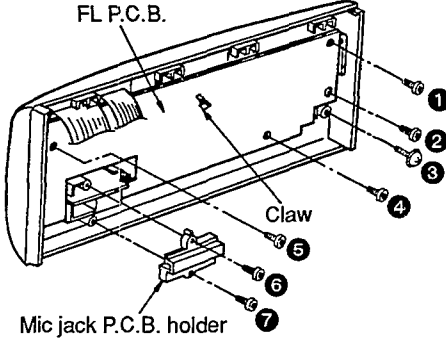
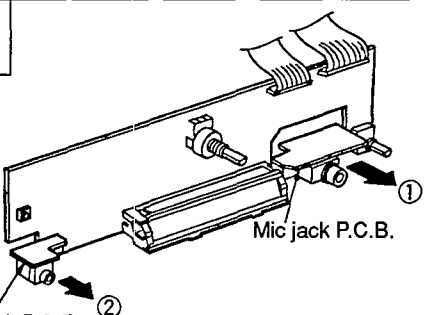
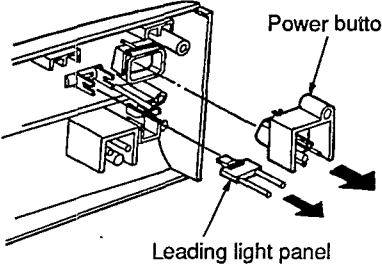
| While using the remote control | | |
|---|--|--|
| The system cannot be operated with the remote control. | The batteries are installed in the reverse polarity. | Re-insert the batteries in the correct polarity. |
| | The batteries are worn. | Replace the batteries with new batteries. |

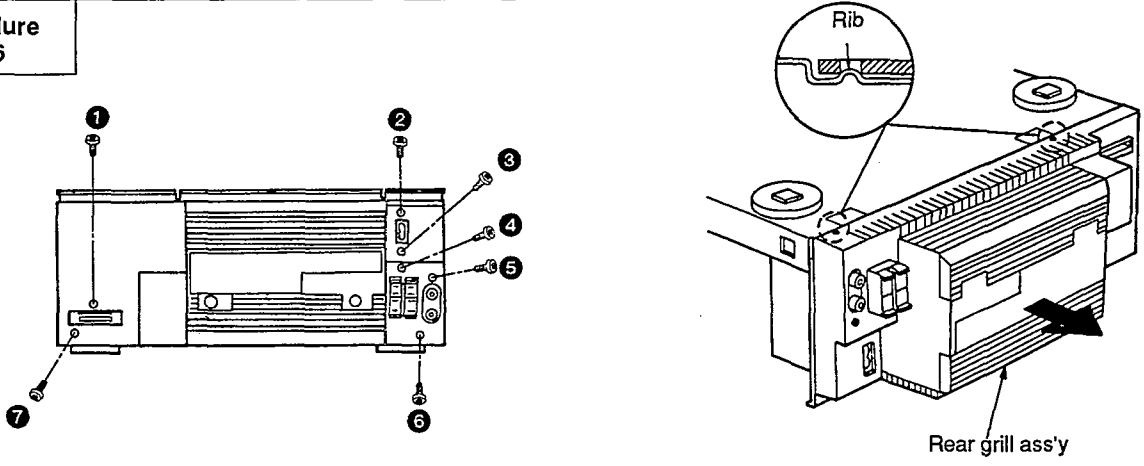
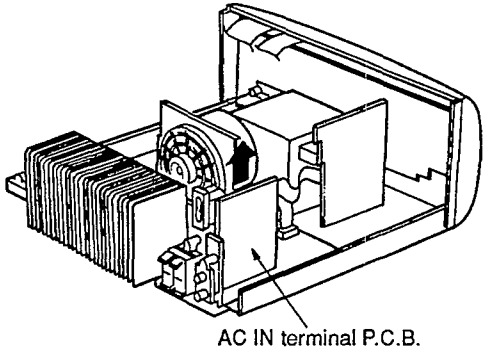
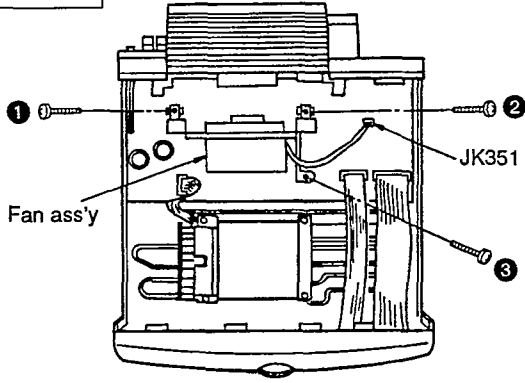
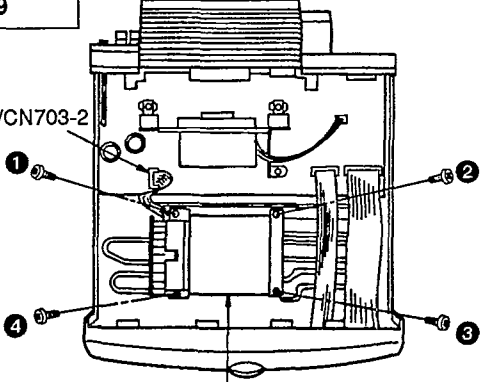
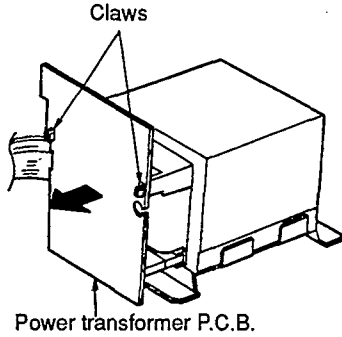
The servicer will require all components to service your system. Therefore, should service ever be necessary, be sure to bring the entire system.


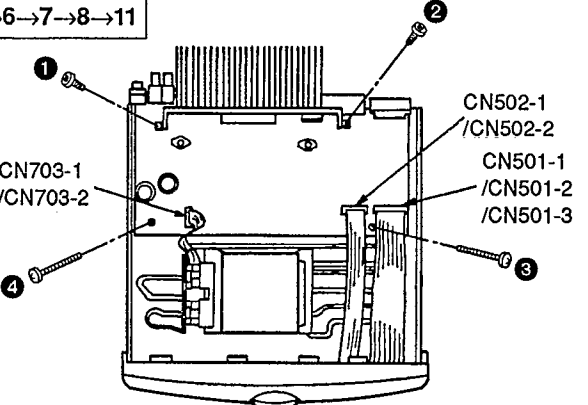
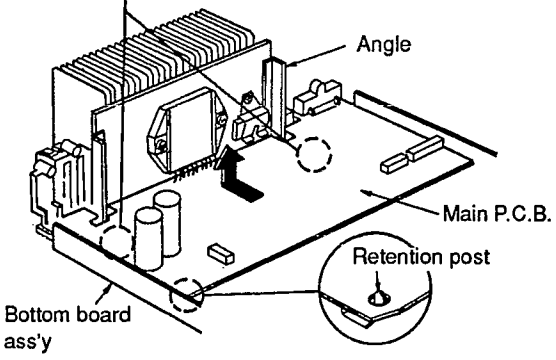
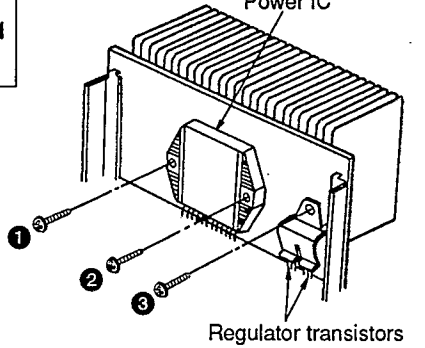
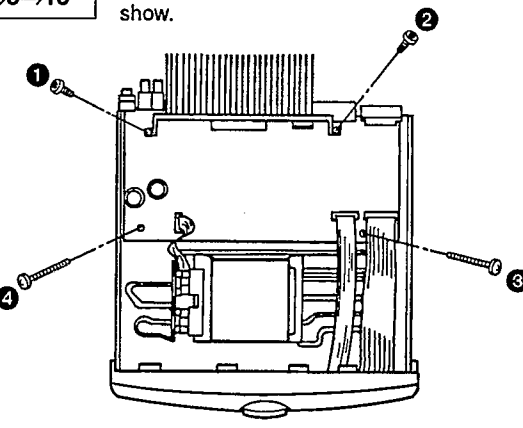
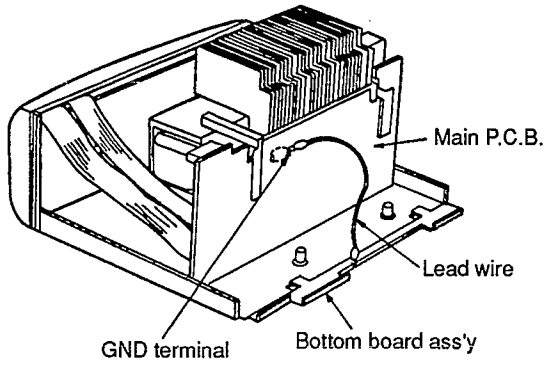
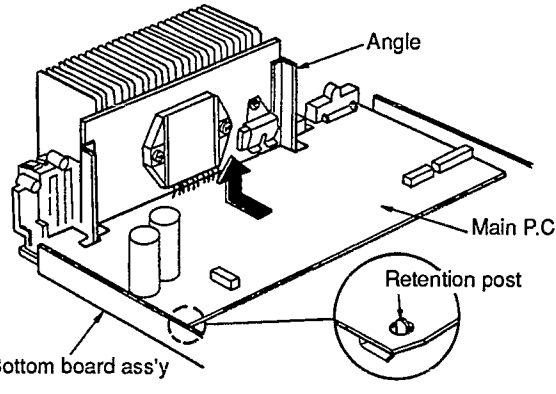
Disassembly Instructions

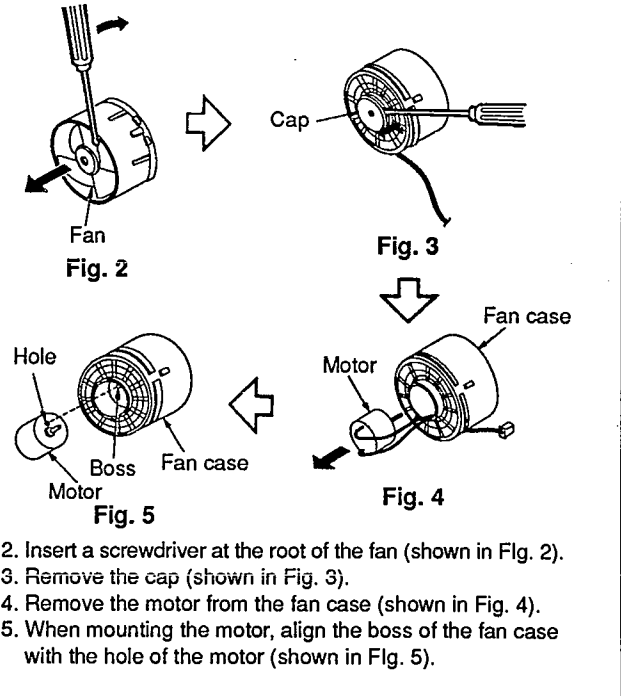
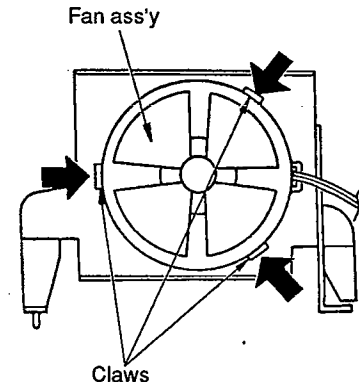
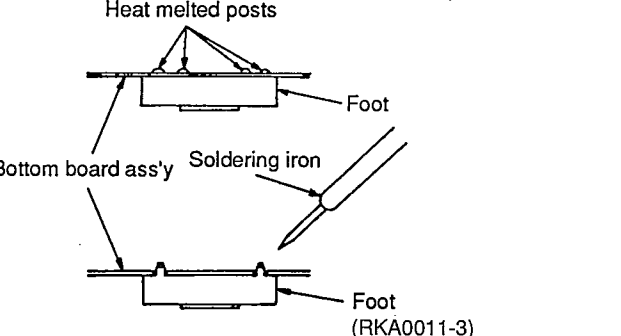
"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

| | | | |
|---|---|---|---|
| Ref. No. 1 | Removal of the Cabinet | Ref. No. 2 | Removal of the Front Panel Ass'y |
| Procedure 1 | | Procedure 1→2 | |
|  <p>1. Remove 5 screws (①~⑤).</p> <p>2. Remove the cabinet in the direction of the arrow.</p> | |  <p>1. Remove 5 connectors (CN501-1, CN501-2, CN501-3, CN502-1, CN502-2).</p> <p>2. Remove 2 screws (①, ②).</p> <p>3. Remove the front panel ass'y in the direction of the arrow.</p> | |
| Ref. No. 3 | Removal of the FL P.C.B. | | |
| Procedure 1→2→3 | | | |
|  <p>1. Pull out the main volume knob.</p> <p>2. Pull out the mic volume knob.</p> <p>3. Remove the nut.</p> | |  <p>4. Remove 7 screws (①~⑦).</p> <p>5. Remove the mic jack P.C.B. holder.</p> <p>6. Release the claw.</p> | |
| Ref. No. 4 | Removal of the Mic Jack P.C.B. and Headphones Jack P.C.B. | Ref. No. 5 | Removal of the Power Button and Leading Light Panel |
| Procedure 1→2→3→4 | | Procedure 1→2→3→5 | |
|  <p>■ Removal of the MIC Jack P.C.B. ● Remove the mic jack P.C.B. in the direction of arrow ①.</p> <p>■ Removal of the Headphones Jack P.C.B. ● Remove the headphones jack P.C.B. in the direction of arrow ②.</p> | |  <p>● Remove the power button and leading light panel in the direction of the arrow.</p> | |

| | | | |
|--|---|--|--|
| <p>Ref. No. 6</p> | <p>Removal of the Rear Grill Ass'y</p> |  <p>1. Remove 7 screws (①~⑦).</p> <p>2. Remove 2 ribs.</p> <p>3. Remove the rear grill ass'y in the direction of the arrow.</p> | |
| <p>Ref. No. 7</p> | <p>Removal of the AC IN Terminal P.C.B.</p> | <p>Ref. No. 8</p> | <p>Removal of the Fan Ass'y</p> |
| <p>Procedure 1→6→7</p>  <p>AC IN terminal P.C.B.</p> <p>•Remove the AC IN terminal P.C.B. in the direction of the arrow.</p> | | <p>Procedure 1→8</p>  <p>1. Remove the connector (JK351).</p> <p>2. Remove 3 screws (①~③).</p> | |
| <p>Ref. No. 9</p> | <p>Removal of the Power Transformer</p> | <p>Ref. No. 10</p> | <p>Removal of the Power Transformer P.C.B.</p> |
| <p>Procedure 1→9</p>  <p>Power transformer</p> <p>1. Remove 2 connectors (CN703-1, CN703-2).</p> <p>2. Remove 4 screws (①~④).</p> | | <p>Procedure 1→9→10</p>  <p>Power transformer P.C.B.</p> <p>•Release 2 claws and then remove the power transformer P.C.B. in the direction of the arrow.</p> | |

| | | | |
|--|--|---|--|
| Ref. No. 11 | Removal of the Main P.C.B. | <p>■ NOTE</p> <ul style="list-style-type: none"> Insert the projection on the angle into the hole of the bottom board ass'y and then install the Main P.C.B. <p>[Bottom view]</p>  | |
| Procedure 1→6→7→8→11 |  <p>1. Remove 4 screws (①~④).</p> <p>2. Remove 7 connectors (CN501-1, CN501-2, CN501-3, CN502-1, CN502-2, CN703-1, CN703-2).</p> |  <p>3. Lift the main P.C.B. off the retention post on the bottom board ass'y.</p> <p>4. Remove the main P.C.B. in the direction of the arrow.</p> | |
| Ref. No. 12 | Removal of the Power IC and Regulator Transistor | Ref. No. 13 | How to check the Main P.C.B. |
| Procedure 1→6→7→8→11 →12 |  <p>1. Unsolder the power IC or regulator transistors.</p> <p>2. Remove 3 screws (①~③).</p> <p>● When mounting the power IC or regulator transistor, apply silicone compound (RFKX0002) to the rear side of power IC or regulator transistors.</p> | Procedure 1→6→8→13 | <p>● When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.</p>  <p>1. Remove 4 screws (①~④).</p> |
|  <p>4. Connect the GND terminal to the bottom board ass'y by the lead wire.</p> |  <p>2. Lift the main P.C.B. off the retention post on the bottom board ass'y.</p> <p>3. Remove the main P.C.B. in the direction of the arrow.</p> | | |

| | | |
|---------------------|--|--|
| Ref. No. 14 | Removal of the Fan Ass'y |  <p>2. Insert a screwdriver at the root of the fan (shown in Fig. 2).</p> <p>3. Remove the cap (shown in Fig. 3).</p> <p>4. Remove the motor from the fan case (shown in Fig. 4).</p> <p>5. When mounting the motor, align the boss of the fan case with the hole of the motor (shown in Fig. 5).</p> |
| Procedure 1→8→14 |  <p>1. Release 3 claws (shown in Fig. 1).</p> | <p>● Replacement of the Foot</p> <p>1. Remove the 4 heat melted posts on the bottom board ass'y with a pair of nippers or similar tool.</p> <p>2. To replace the foot (RKA0011-3) on the bottom board ass'y melt the 4 posts with a soldering iron.</p>  |

■ Power Source ON/OFF of This Unit SE-CH515A

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

● Operation Check

- Set this unit to power ON mode.
- Input a signal (1kHz, 100mV) to the section between the resistor R217 (LINE IN for Lch) and the jumper J93 (LINE IN GND) as well as the section between the resistor R218 (LINE IN for Rch) and the jumper.
- Connect the speaker to the speaker terminals and check if it sounds from the speaker.

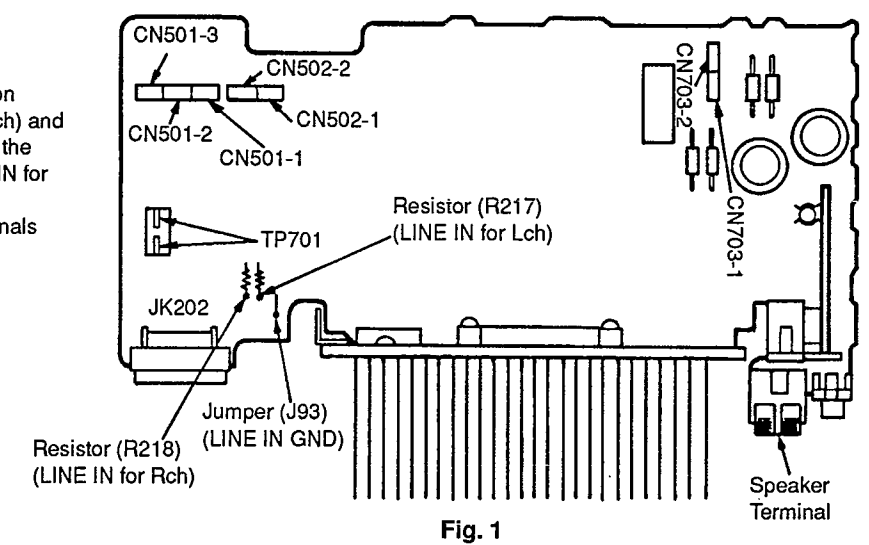
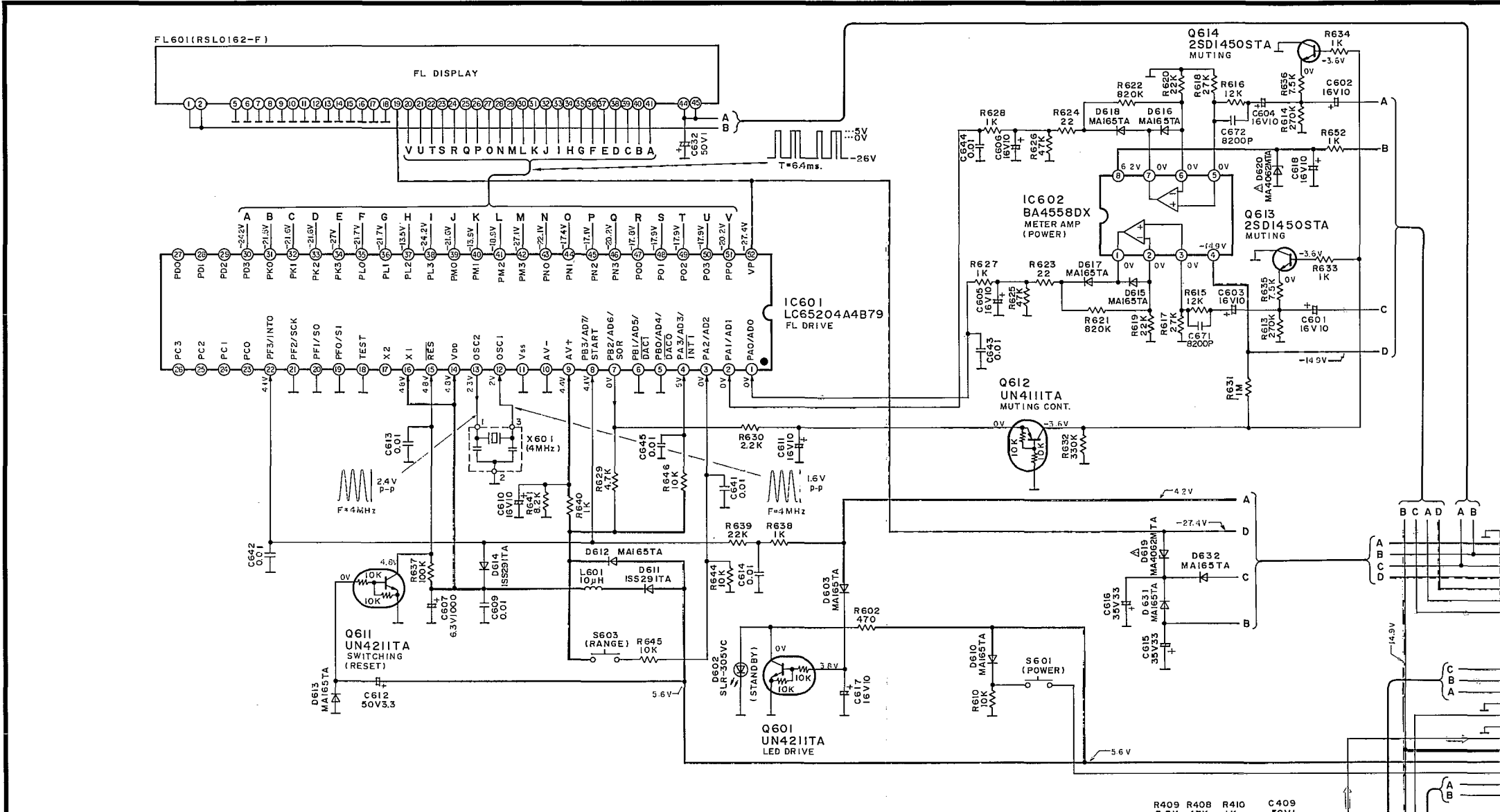


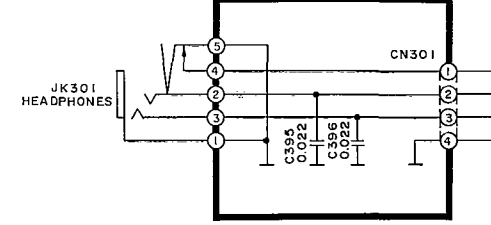
Fig. 1

Schematic Diagram • FL/Headphones Jack/Mic Jack circuit (Parts list on pages 25~27)

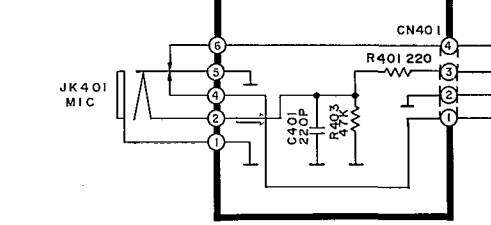
A FL CIRCUIT



B HEADPHONES JACK CIRCUIT



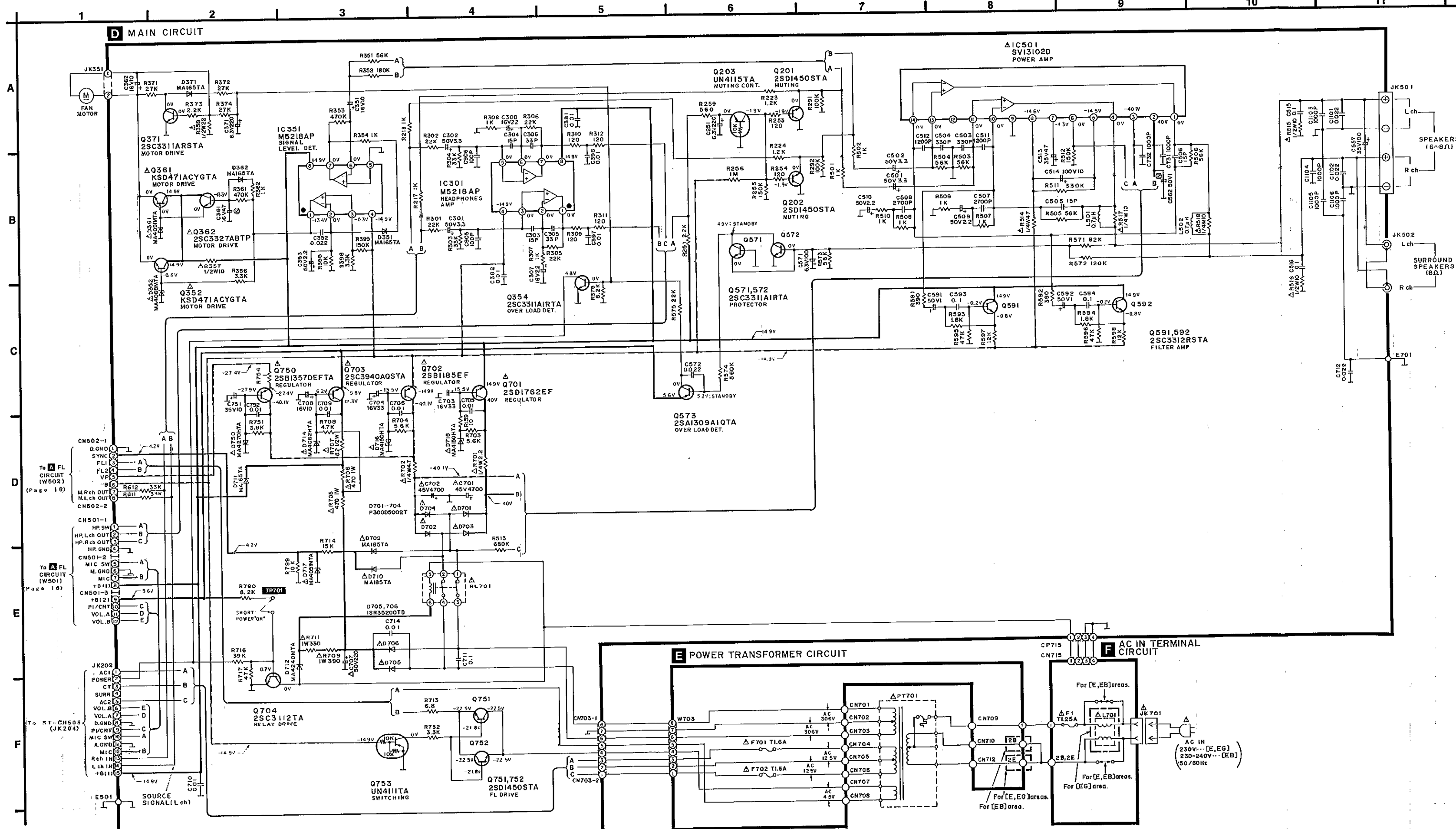
C MIC JACK CIRCUIT



To **D** MAIN CIRCUIT (CN502-1,-2) (Page 17)

To **D** MAIN CIRCUIT (CN501-1,-2,-3) (Page 17)

Schematic Diagram • Main/Power Transformer/AC Input Terminal circuit (Parts list on pages 25~27)



Notes:

- S601 : Power "STANDBY ON" switch (POWER, \square STANDBY \square ON)
- S603 : Range select switch (RANGE)
- VR401 : Microphone volume control (MIC VOLUME)
- VR601 : Volume control (VOLUME)

•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. No mark: Power ON

•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.

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

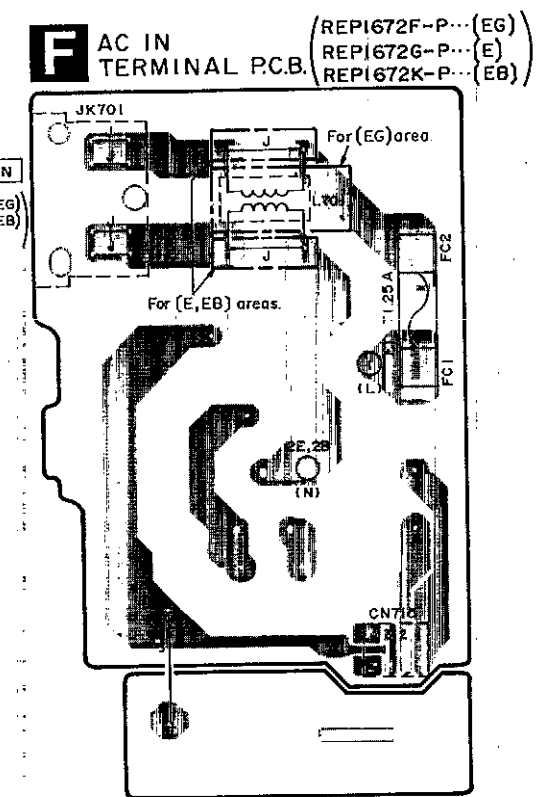
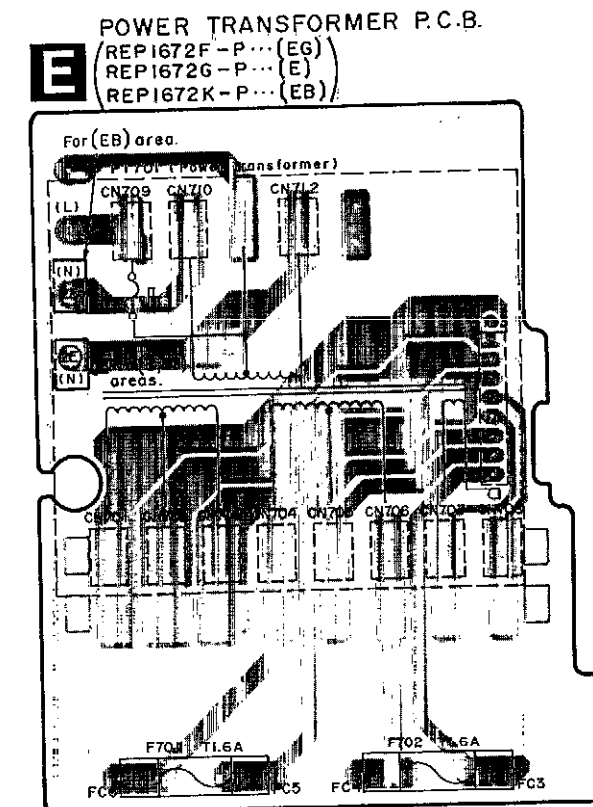
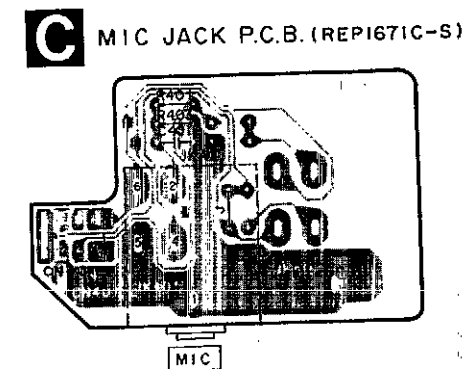
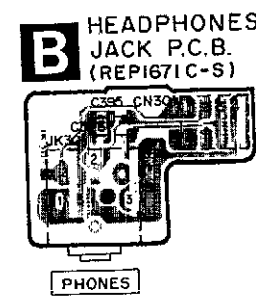
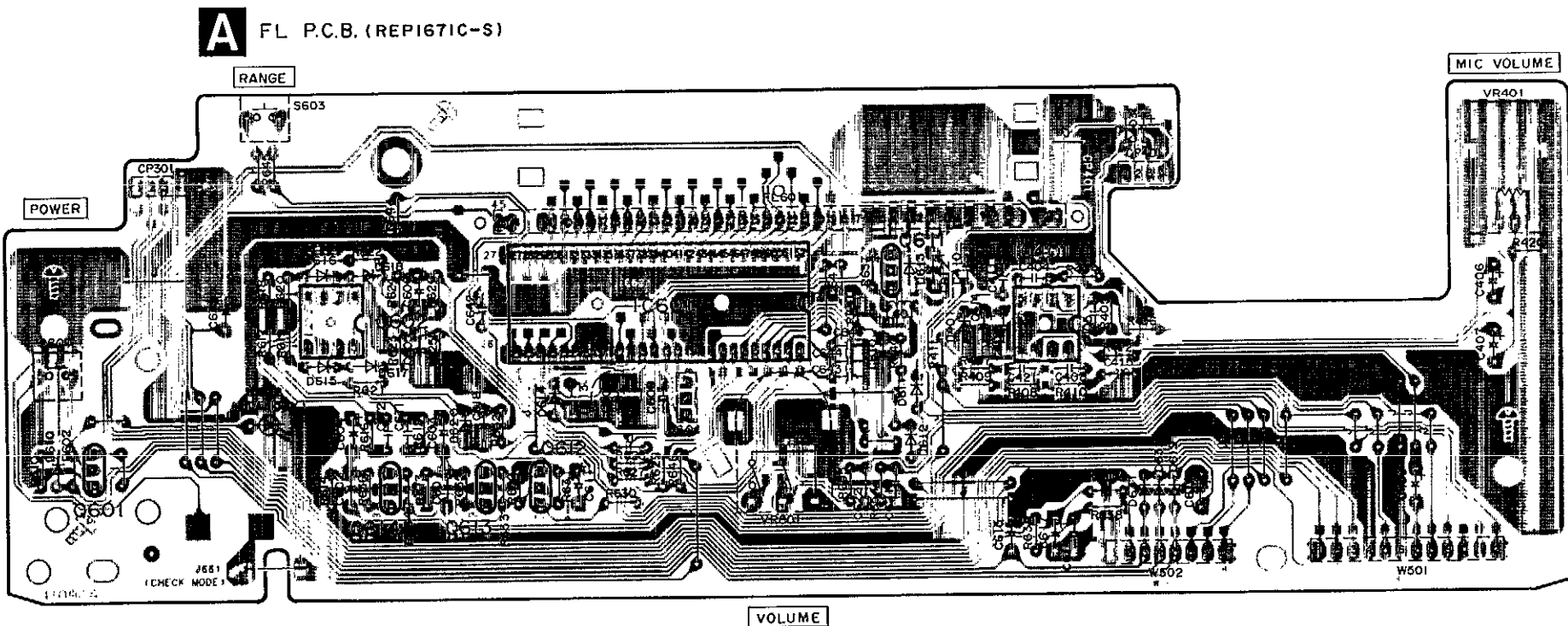
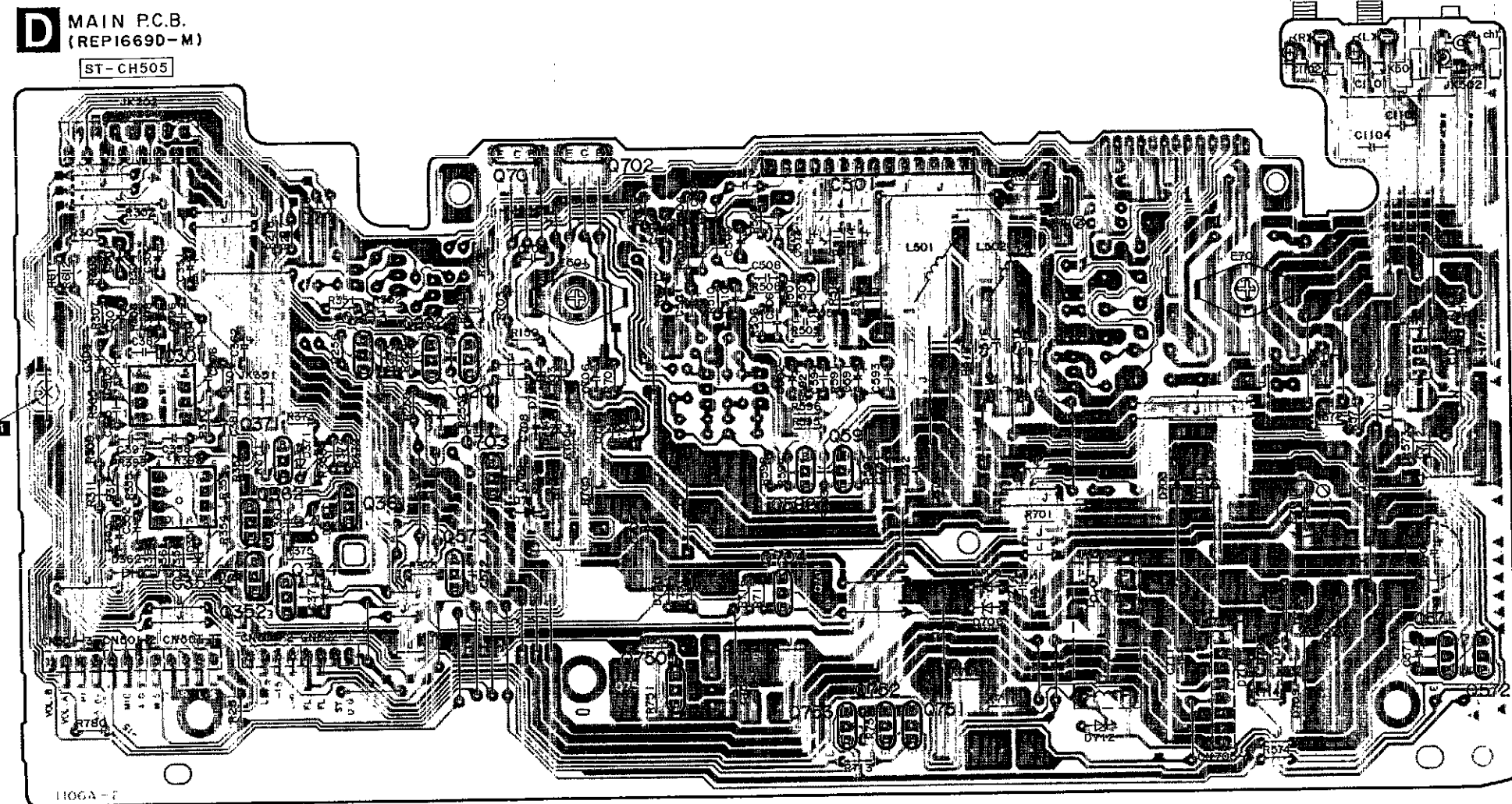
•Caution!
IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair. Cover the parts boxes made of plastics with aluminum foil. Ground the soldering iron. Put a conductive mat on the work table. Do not touch the legs of IC or LSI with the fingers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

•Voltage and signal line

- : Positive voltage line
- - - : Negative voltage line
- ▨ : Source signal line
- : Mic signal (Lch)

Printed Circuit Board Diagram

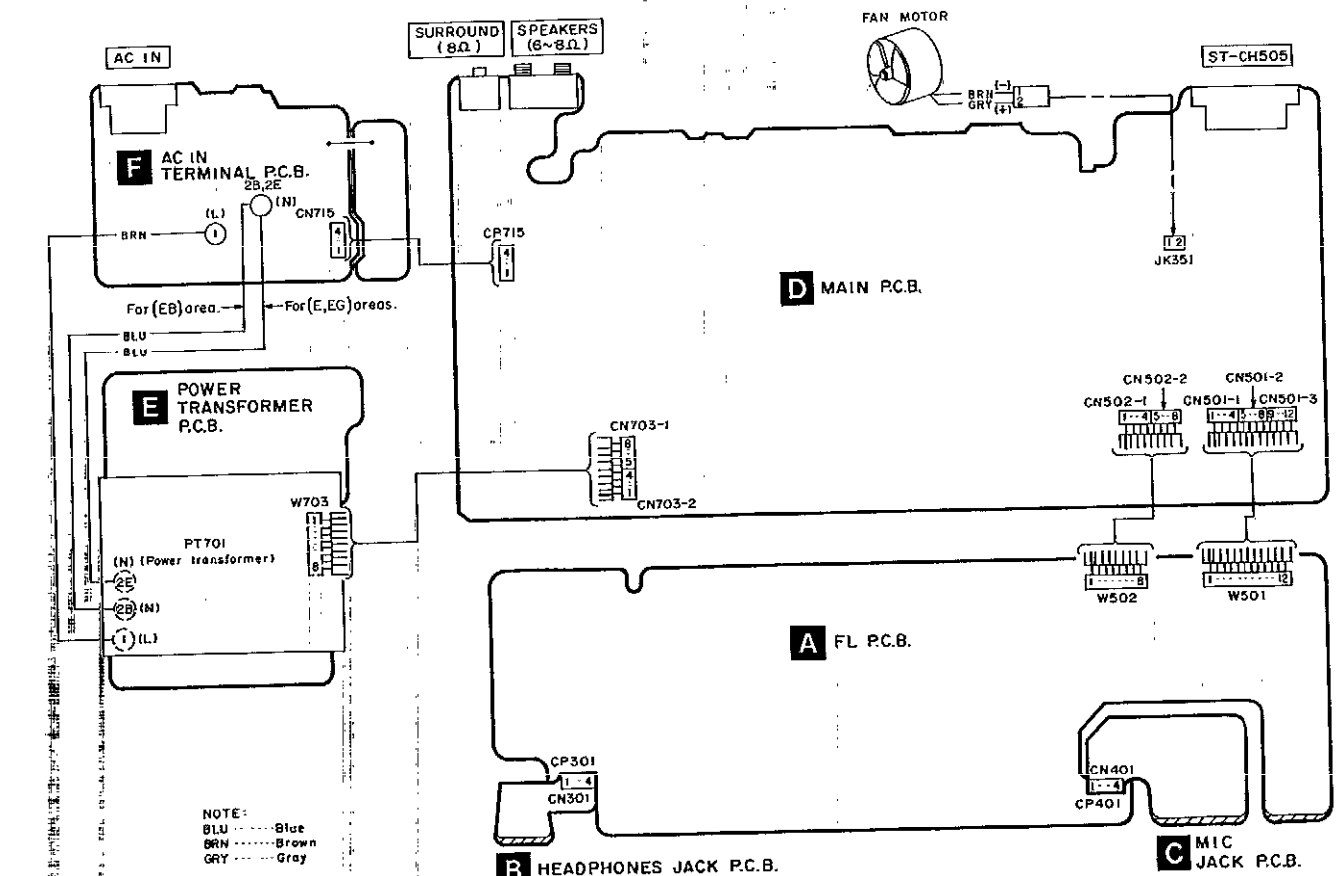
This circuit board diagram may be modified at any time with the development of new technology.



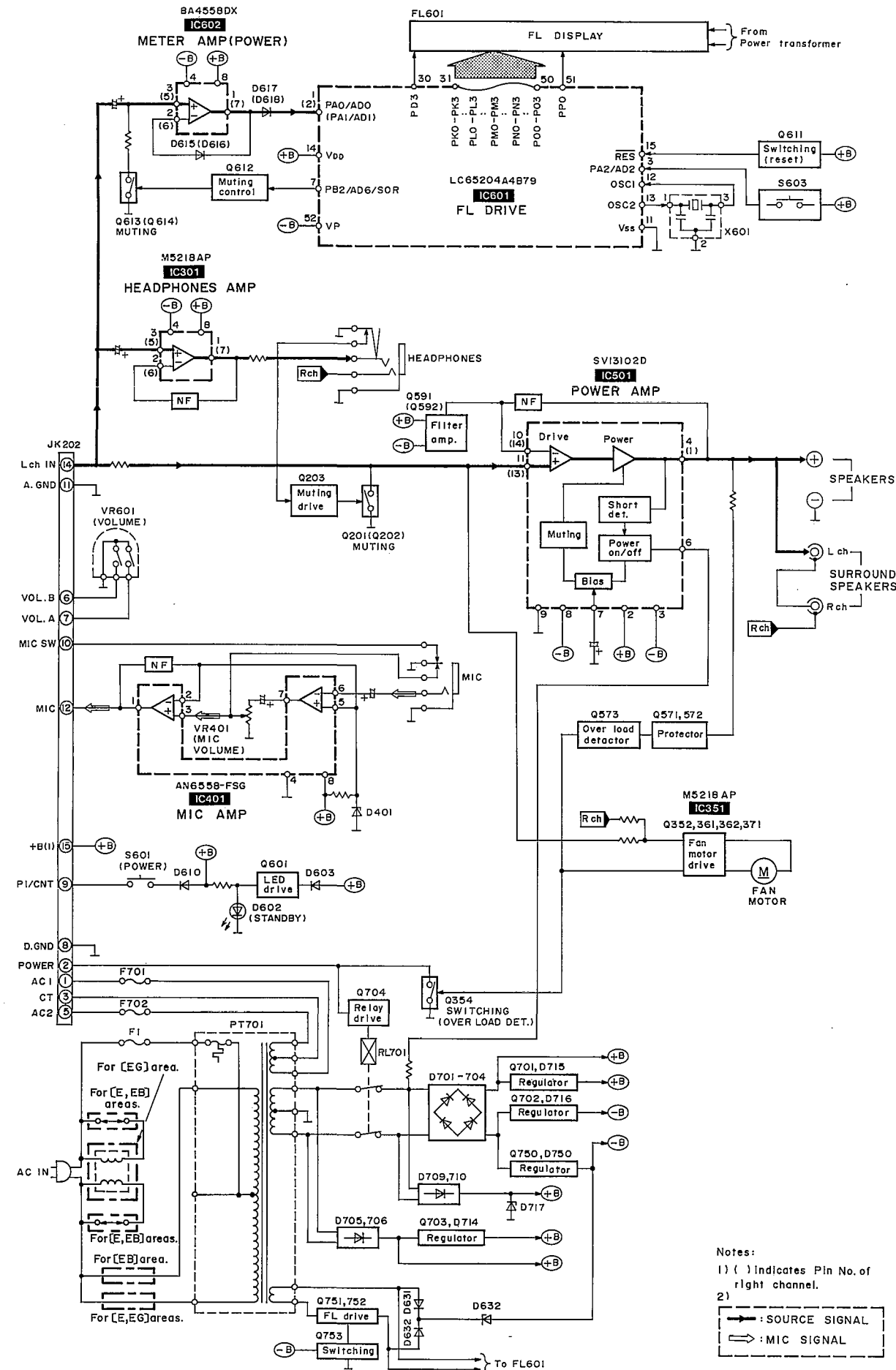
Terminal guide of IC's, transistors and diodes

| | | | |
|----------------------------|---|---|------------------------------|
| AN6558-FSG BA4558DX | M5218AP | LC65204A4B79 | SVI3102D |
| | 2SA1309AIQTA 2SC3311ARSTA 2SC3311AIRTA 2SC3312RSTA 2SD1450STA UN4111TA UN4115TA UN4211TA | 2SB1357DEFTA | 2SC3940AQSTA |
| | 2SC3112TA 2SC3327ABTP KSD471ACYGTA | 2SB1185EF 2SD1782EF | MA165TA |
| MA185TA 1SS291TA | | MA4051MTA MA4062HTA MA4062MTA MA4068MTA MA4091MTA | P300D5002T 1SR35200TB |
| | MA4150HTA MA4240MTA MA4270HTA | SLR-305VC | |

Wiring Connection Diagram



■ Block Diagram



■ Function of IC Terminals

●IC601 (LC65204A4B79)

| Pin No. | Terminal Name | I/O | Function |
|---------|-----------------|-----|---|
| 1 | PA0/AD0 | I | L-ch level signal input from IC602 |
| 2 | PA1/AD1 | I | R-ch level signal input from IC602 |
| 3 | PA2/AD2 | I | Operation key ON/OFF signal input |
| 4 | PA3/AD3 | I | Check mode input (Mode ON: "H") |
| 5 | PB0/AD4 | — | Connected to GND |
| 6 | PB1/AD5 | — | Connected to GND |
| 7 | PB2/AD6 | O | Meter range switching signal input (×1 mode: "H", X0.1 mode: "L") |
| 8 | PB3/AD7 | I | Power ON detection signal input |
| 9 | AV+ | I | A/D converter standard voltage input |
| 10 | AV- | — | |
| 11 | V _{ss} | — | Connected to GND |
| 12 | OSC1 | I/O | Clock signal input/output (Connected to X601) |
| 13 | OSC2 | | |

| Pin No. | Terminal Name | I/O | Function |
|---------|-----------------|-----|--|
| 14 | V _{DD} | I | Power supply terminal (+5 V input) |
| 15 | RES | I | Reset signal input (Operation mode: "H", Reset mode: "L") |
| 16 | x1 | I | Connected to V _{DD} |
| 17 | x2 | — | — |
| 18 | TEST | — | Connected to GND |
| 19 | PF0/S1 | — | FL segment drive output (Connected to GND) (Pulse signal output) |
| 21 | PF2/SCK | | |
| 22 | PF3/INT0 | I | Power OFF detection signal input |
| 23 | PC0 | — | — |
| 29 | PD9 | | |
| 30 | PD3 | | |
| 45 | PN2 | O | FL segment drive output (Pulse signal output) |
| 46 | PN3 | O | FL grid drive output (Pulse signal output) |
| 51 | PP0 | | |
| 52 | VP | — | FL pull-down power source input |

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.

*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 |
|-----------|--------------|-------------------------|----------|-----------|--------------|---------------------------|---------------|
| | | INTEGRATED CIRCUIT(S) | | D612, 613 | MA165 | DIODE | |
| | | | | D614 | 1SS291TA | DIODE | |
| | | | | D615-618 | MA165 | DIODE | |
| IC301 | M5218AP | I. C, HEADPHONES AMP. | | D619, 620 | MA4062MTA | DIODE | Δ |
| IC351 | M5218AP | I. C, SIGNAL LEVEL DET. | | D631, 632 | MA165 | DIODE | |
| IC401 | AN6558-FSG | I. C, MIC AMP. | | D701-704 | P300D5002T | DIODE | Δ |
| IC501 | SV13102D | I. C, POWER AMP. | Δ | D705, 706 | 1SR35200TB | DIODE | Δ |
| IC601 | LC65204A4B79 | I. C, FL DRIVE | | D709, 710 | MA185TA | DIODE | Δ |
| IC602 | BA4558DK | I. C, METER AMP. | | D711 | MA165 | DIODE | |
| | | TRANSISTOR(S) | | D712 | MA4240H | DIODE | |
| | | | | D714 | MA4062-H | DIODE | Δ |
| | | | | D715, 716 | MA4150M | DIODE | Δ |
| | | | | D717 | MA4051MTA | DIODE | Δ |
| Q201, 202 | 2SD1450RTA | TRANSISTOR | | D750 | MA4270HTA | DIODE | Δ |
| Q203 | UN4115 | TRANSISTOR | | | | | |
| Q352 | KSD471ACYGTA | TRANSISTOR | Δ | | | VARIABLE RESISTOR(S) | |
| Q354 | 2SC3311AIRTA | TRANSISTOR | | | | | |
| Q361 | KSD471ACYGTA | TRANSISTOR | Δ | VR401 | EVJ02BF02B14 | V. R, MIC VOLUME CONTROL | |
| Q362 | 2SC3327-A | TRANSISTOR | Δ | VR601 | EVQWQAF2524B | V. R, MAIN VOLUME CONTROL | |
| Q371 | 2SC3311ARSTA | TRANSISTOR | | | | | |
| Q571, 572 | 2SC3311AIRTA | TRANSISTOR | | | | COIL (S) | |
| Q573 | 2SA1309AIQTA | TRANSISTOR | | L501, 502 | SLQY07G-40 | COIL | |
| Q591, 592 | 2SC3312RSTA | TRANSISTOR | | L601 | ELEXT100KA9 | COIL | |
| Q601 | UN4211 | TRANSISTOR | | L701 | RLQZ271M | COIL | Δ (EG) |
| Q611 | UN4211 | TRANSISTOR | | | | | |
| Q612 | UN4111 | TRANSISTOR | | | | OSCILLATOR (S) | |
| Q613, 614 | 2SD1450RTA | TRANSISTOR | | X601 | EF0EC4004T4 | OSCILLATOR (4MHz) | |
| Q701 | 2SD1762EF | TRANSISTOR | Δ | | | | |
| Q702 | 2SB1185EF | TRANSISTOR | Δ | | | DISPLAY | |
| Q703 | 2SC3940AQSTA | TRANSISTOR | Δ | FL601 | RSL0162-F | FL DISPLAY | |
| Q704 | 2SC3112TA | TRANSISTOR | | | | | |
| Q750 | 2SB1357DEFTA | TRANSISTOR | Δ | | | FUSE (S) | |
| Q751, 752 | 2SD1450RTA | TRANSISTOR | | F1 | XBA2C12TB0S | FUSE, 250V T1. 25A | Δ |
| Q753 | UN4111 | TRANSISTOR | | F701, 702 | XBA2C16TB0 | FUSE, 250V T1. 6A | Δ |
| | | DIODE(S) | | | | SWITCH (ES) | |
| D351 | MA165 | DIODE | | S601 | EVQ21405R | SW, POWER | |
| D352 | MA4068M | DIODE | Δ | S603 | EVQ21405R | SW, RANGE | |
| D361 | MA4091-M | DIODE | Δ | | | CONNECTOR(S) | |
| D362 | MA165 | DIODE | | | | | |
| D371 | MA165 | DIODE | | | | | |
| D401 | MA4062MTA | DIODE | | | | | |
| D602 | SLR-305VC | LED | | | | | |
| D603 | MA165 | DIODE | | | | | |
| D610 | MA165 | DIODE | | | | | |
| D611 | 1SS291TA | DIODE | | | | | |

Notes: * Capacity values are in microfarads (μ 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)

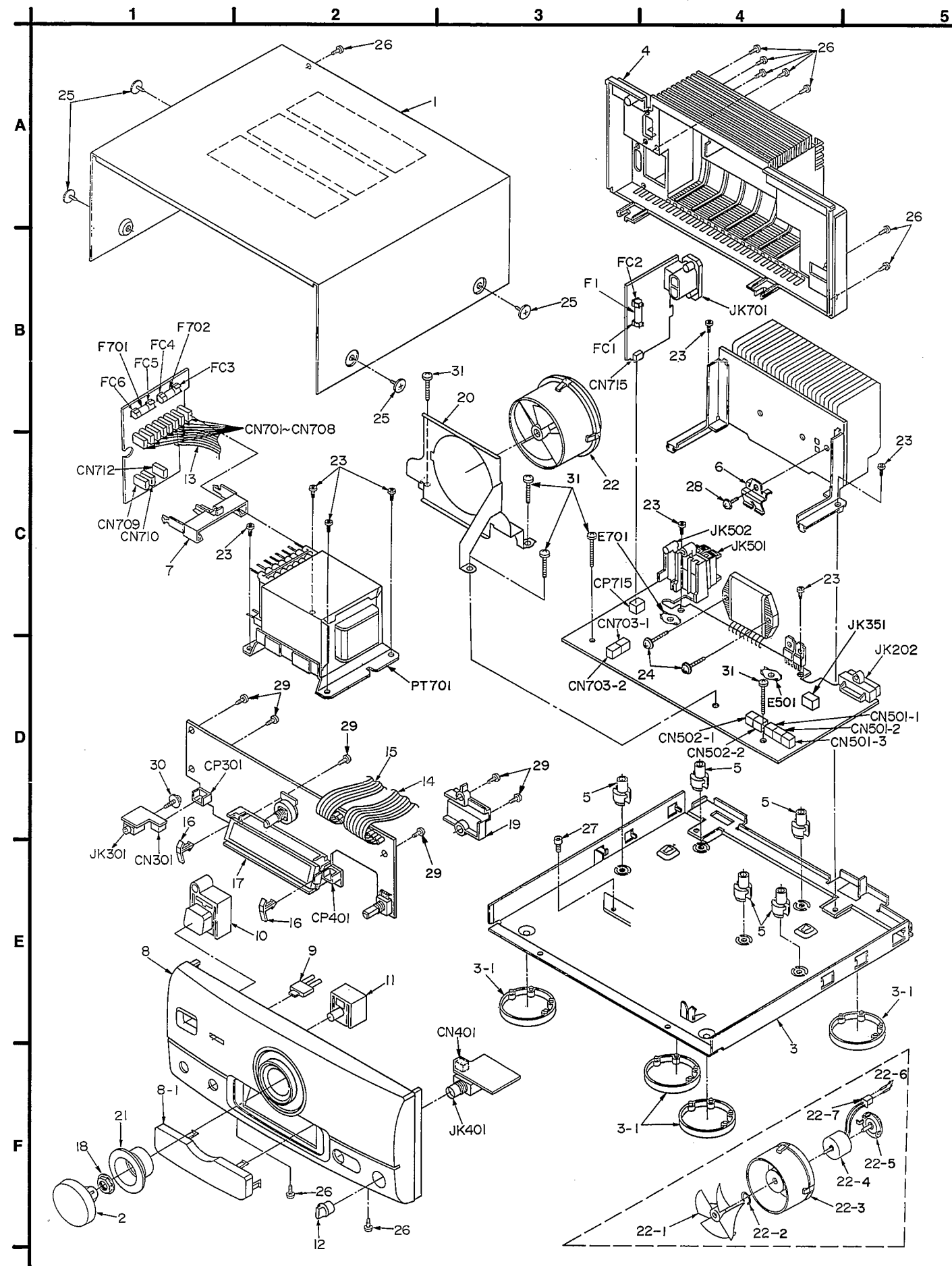
| Ref. No. | Part No. | Part Name & Description | Remarks |
|------------|--------------|-----------------------------|----------|
| CN301 | RJU057W004 | SOCKET (4P) | |
| CN401 | RJU057W004 | SOCKET (4P) | |
| CN701-710 | RJS1A1101T1 | SOCKET (1P) | |
| CN712 | RJS1A1101T1 | SOCKET (1P) | |
| CN715 | RJU057W004 | SOCKET (4P) | |
| CN501-1-3 | RJS1A6604 | SOCKET (4P) | |
| CN502-1, 2 | RJS1A6604 | SOCKET (4P) | |
| CN703-1, 2 | RJS1A6604 | SOCKET (4P) | |
| CP301 | RJT057W004-1 | CONNECTOR (4P) | |
| CP401 | RJT057W004-1 | CONNECTOR (4P) | |
| CP715 | RJT057W004-1 | CONNECTOR (4P) | |
| | | EARTH TERMINAL(S) | |
| E501 | SNE1004-1 | GND PLATE | |
| E701 | SNE1004-1 | GND PLATE | |
| | | FUSE HOLDER(S) | |
| FC1-6 | EYF52BC | FUSE HOLDER | |
| | | TRANSFORMER | |
| PT701 | RTP2M5B003 | POWER TRANSFORMER | Δ |
| | | RELAY | |
| RL701 | RSY0013M-0 | RELAY | Δ |
| | | JACK(S) | |
| JK202 | RJT065W15 | CONNECTOR (15P) | |
| JK301 | RJJ37TN01-C | HEADPHONES JACK | |
| JK351 | SJT3213 | CONNECTOR (2P) | |
| JK401 | RJJ65MA01 | MIC JACK | |
| JK501 | RJR0054M | SPEAKER TERMINAL | |
| JK502 | SJF3068-12N | SPEAKER TERMINAL (SURROUND) | |
| JK701 | SJS9236 | AC INLET | Δ |

| Ref. No. | Part No. | Values & Remarks |
|-----------|--------------|------------------|
| | | RESISTORS |
| R159 | ERDS2TJ100 | 1/4W 10 |
| R217, 218 | ERDS2TJ102 | 1/4W 1K |
| R223, 224 | ERDS2TJ122 | 1/4W 1.2K |
| R251 | ERDS2TJ222 | 1/4W 2.2K |
| R253, 254 | ERDS2EJ121 | 1/4W 120 |
| R255 | ERDS2TJ154 | 1/4W 150K |
| R256 | ERDS2TJ105T | 1/4W 1M |
| R259 | ERDS2TJ561 | 1/4W 560 |
| R291, 292 | ERDS2TJ104 | 1/4W 100K |
| R301, 302 | ERDS2TJ223 | 1/4W 22K |
| R303, 304 | ERDS2TJ333 | 1/4W 33K |
| R305, 306 | ERDS2TJ223 | 1/4W 22K |
| R307, 308 | ERDS2TJ102 | 1/4W 1K |
| R309-312 | ERDS2EJ121 | 1/4W 120 |
| R351 | ERDS2TJ563 | 1/4W 56K |
| R352 | ERDS2TJ184T | 1/4W 180K |
| R353 | ERDS2TJ474 | 1/4W 470K |
| R354 | ERDS2TJ102 | 1/4W 1K |
| R355 | ERDS2TJ103 | 1/4W 10K |
| R356 | ERDS2TJ332 | 1/4W 3.3K |
| R357 | ERDS1FVJ100T | 1/2W 10 Δ |
| R358 | ERDS1FVJ220T | 1/2W 22 Δ |
| R361 | ERDS2TJ474 | 1/4W 470K |
| R362 | ERDS2TJ102 | 1/4W 1K |
| R371, 372 | ERDS2TJ273 | 1/4W 27K |
| R373 | ERDS2TJ222 | 1/4W 2.2K |
| R374 | ERDS2TJ273 | 1/4W 27K |
| R375 | ERDS2TJ822 | 1/4W 8.2K |
| R398 | ERDS2TJ332 | 1/4W 3.3K |
| R399 | ERDS2TJ154 | 1/4W 150K |
| R401 | ERDS2TJ221 | 1/4W 220 |
| R403 | ERDS2TJ473 | 1/4W 47K |
| R404 | ERDS2TJ123 | 1/4W 12K |
| R405 | ERDS2TJ474 | 1/4W 470K |
| R406 | ERDS2TJ102 | 1/4W 1K |
| R407 | ERDS2TJ104 | 1/4W 100K |
| R408 | ERDS2TJ473 | 1/4W 47K |
| R409 | ERDS2TJ332 | 1/4W 3.3K |
| R410 | ERDS2TJ102 | 1/4W 1K |
| R411 | ERDS2TJ562 | 1/4W 5.6K |
| R412 | ERDS2TJ102 | 1/4W 1K |
| R420 | ERDS2TJ104 | 1/4W 100K |
| R501, 502 | ERDS2TJ102 | 1/4W 1K |
| R503-506 | ERDS2TJ563 | 1/4W 56K |
| R507-510 | ERDS2TJ102 | 1/4W 1K |
| R511 | ERDS2TJ334 | 1/4W 330K |

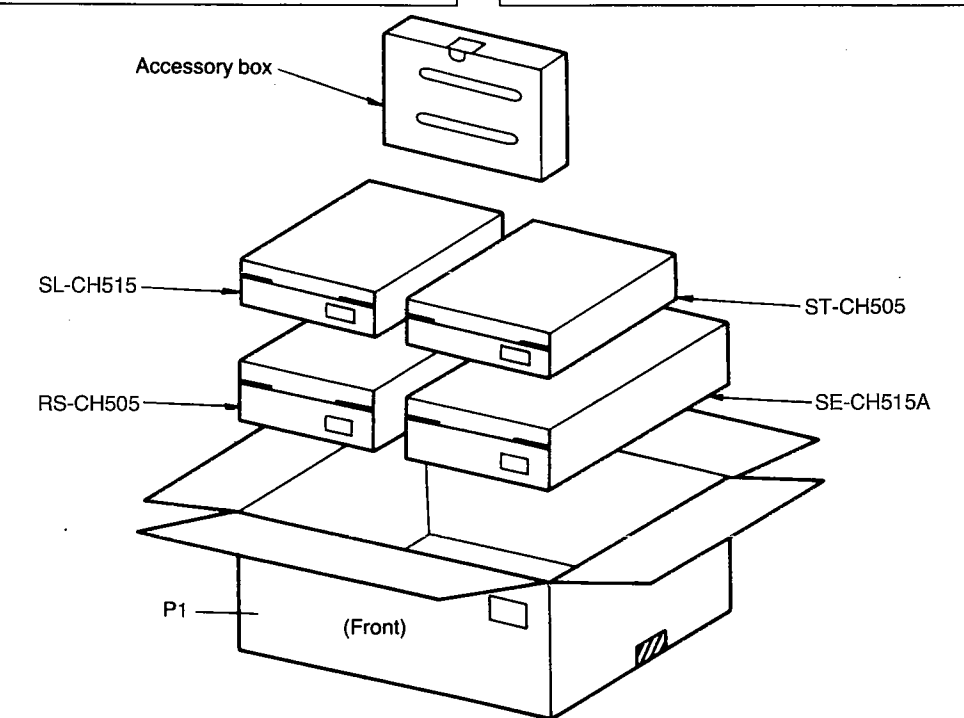
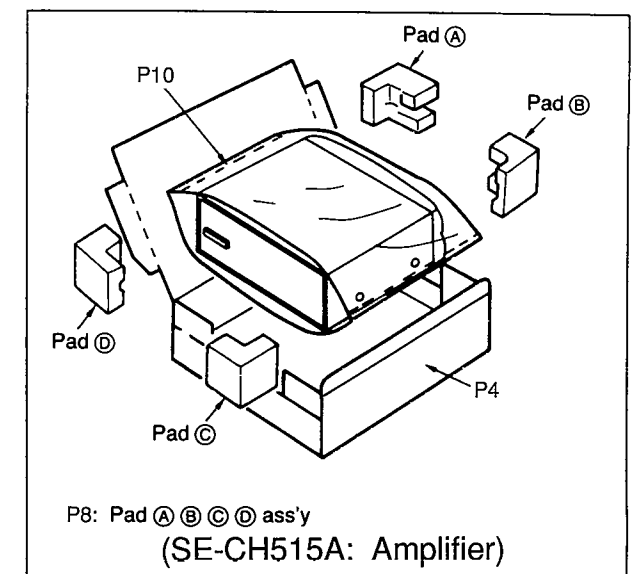
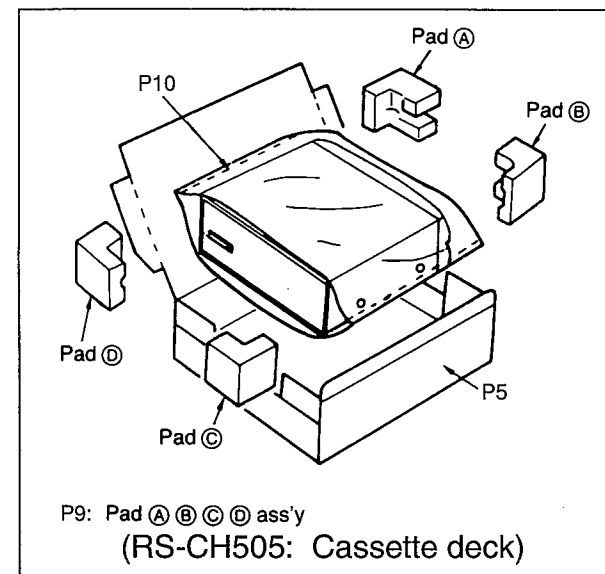
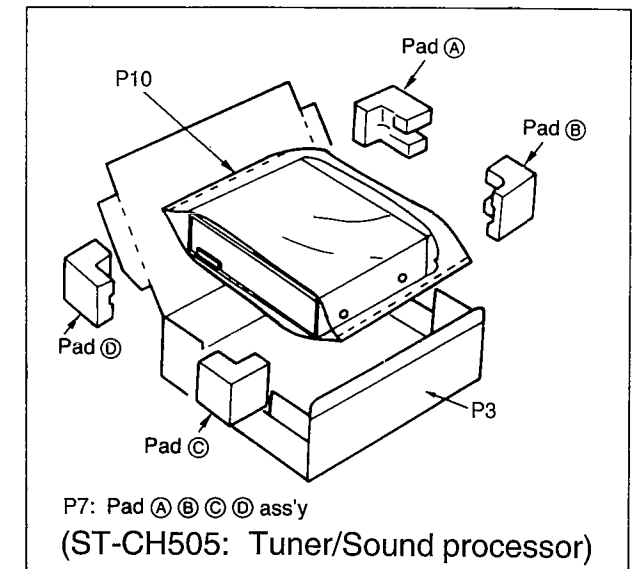
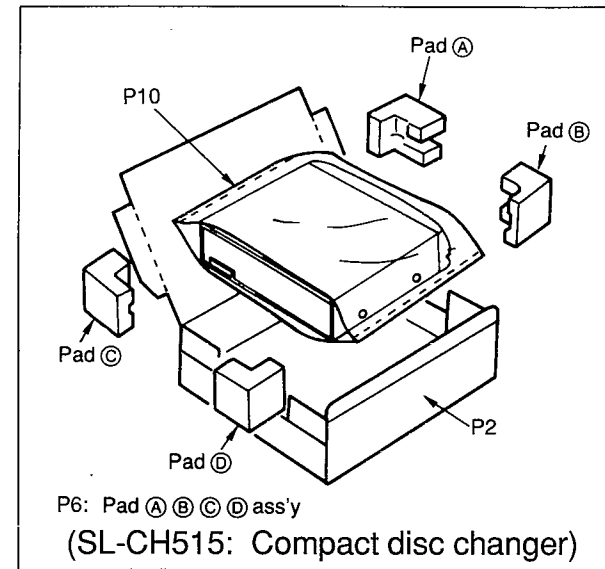
| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|-----------|--------------|--------------------|-----------|--------------|------------------|-------------|--------------|--------------------|
| R512 | ERDS2TJ154 | 1/4W 150K | R752 | ERDS2TJ332 | 1/4W 3. 3K | C609 | ECBT1E103ZF | 25V 0. 01U |
| R513 | ERDS2TJ684 | 1/4W 680K | R754 | ERDS2TJ1R0 | 1/4W 1. 0 | C610, 611 | ECEA1CKA100B | 16V 10U |
| R514 | ERD25FJ470 | 1/4W 47 Δ | R780 | ERDS2TJ822 | 1/4W 8. 2K | C612 | ECEA1HKA3R3B | 50V 3. 3U |
| R515, 516 | ERDS1FVJ100T | 1/2W 10 Δ | R799 | ERDS2TJ103 | 1/4W 10K | C613, 614 | ECBT1E103ZF | 25V 0. 01U |
| R517, 518 | ERD25FVJ100T | 1/4W 10 Δ | | | | C615, 616 | ECEA1VKA330B | 35V 33U |
| R571 | ERDS2TJ823T | 1/4W 82K | | | CAPACITORS | C617, 618 | ECEA1CKA100B | 16V 10U |
| R572 | ERDS2TJ124T | 1/4W 120K | | | | C621, 622 | ECBT1E223ZF | 25V 0. 022U |
| R573 | ERDS2TJ563 | 1/4W 56K | C251 | ECEA0JKA221B | 6. 3V 220U | C632 | ECEA1HKA010B | 50V 1U |
| R574 | ERDS2TJ564 | 1/4W 560K | C301, 302 | ECEA1HKA3R3B | 50V 3. 3U | C641-645 | ECBT1E103ZF | 25V 0. 01U |
| R575 | ERDS2TJ223 | 1/4W 22K | C303, 304 | ECBT1H150J5 | 50V 15P | C671, 672 | ECBT1C822KS5 | 16V 8200P |
| R591, 592 | ERDS2TJ391 | 1/4W 390 | C305, 306 | ECBT1H330J5 | 50V 33P | C701, 702 | ECEA45V472YB | 45V 4700U Δ |
| R593, 594 | ERDS2TJ182 | 1/4W 1. 8K | C307, 308 | ECEA1CKA220B | 16V 22U | C703, 704 | ECEA1CKA330B | 16V 33U |
| R595, 596 | ERDS2TJ473 | 1/4W 47K | C351 | ECEA1CKA100B | 16V 10U | C705, 706 | ECKR1H103ZF5 | 50V 0. 01U |
| R597, 598 | ERDS2TJ123 | 1/4W 12K | C352 | ECBT1E223ZF | 25V 0. 022U | C707 | ECA1HM221B | 50V 220U Δ |
| R602 | ERDS2TJ471 | 1/4W 470 | C353 | ECEA1HKA2R2B | 50V 2. 2U | C708 | ECEA1CKA100B | 16V 10U |
| R610 | ERDS2TJ103 | 1/4W 10K | C361 | ECEA1CN470SB | 16V 47U | C709, 710 | ECBT1E103ZF | 25V 0. 01U |
| R611, 612 | ERDS2TJ333 | 1/4W 33K | C362 | ECEA1CKA100B | 16V 10U | C711 | ECQE1104KF3 | 100V 0. 1U |
| R613, 614 | ERDS2TJ274 | 1/4W 270K | C371 | ECEA0JKA221B | 6. 3V 220U | C712 | ECBT1E223ZF | 25V 0. 022U |
| R615, 616 | ERDS2TJ123 | 1/4W 12K | C381, 382 | ECBT1E103ZF | 25V 0. 01U | C714 | ECKR1H103ZF5 | 50V 0. 01U |
| R617, 618 | ERDS2TJ273 | 1/4W 27K | C395, 396 | ECBT1E223ZF | 25V 0. 022U | C731, 732 | ECKT1H102KB | 50V 1000P |
| R619, 620 | ERDS2TJ223 | 1/4W 22K | C397, 398 | ECBT1E103ZF | 25V 0. 01U | C751 | ECEA1VKA100B | 35V 10U |
| R621, 622 | ERDS2TJ824 | 1/4W 820K | C401 | ECBT1H221KB5 | 50V 220P | C752 | ECKR1H103ZF5 | 50V 0. 01U |
| R623, 624 | ERDS2TJ220T | 1/4W 22 | C403 | ECEA1HKA3R3B | 50V 3. 3U | C905, 906 | ECBT1H101KB5 | 50V 100P |
| R625, 626 | ERDS2TJ473 | 1/4W 47K | C404 | ECBT1H221KB5 | 50V 220P | C1101, 1102 | ECBT1E223ZF | 25V 0. 022U |
| R627, 628 | ERDS2TJ102 | 1/4W 1K | C405 | ECBT1H101KB5 | 50V 100P | C1103-1106 | ECBT1H102KB5 | 50V 1000P |
| R629 | ERDS2TJ472 | 1/4W 4. 7K | C406 | ECEA1CKA100B | 16V 10U | | | |
| R630 | ERDS2TJ222 | 1/4W 2. 2K | C407 | ECEA1HKA3R3B | 50V 3. 3U | | | |
| R631 | ERDS2TJ105T | 1/4W 1M | C408 | ECBT1H181KB5 | 50V 180P | | | |
| R632 | ERDS2TJ334 | 1/4W 330K | C409 | ECEA1HKA010B | 50V 1U | | | |
| R633, 634 | ERDS2TJ102 | 1/4W 1K | C410 | ECBT1H221KB5 | 50V 220P | | | |
| R635, 636 | ERDS2TJ752T | 1/4W 7. 5K | C411 | ECBT1E103ZF | 25V 0. 01U | | | |
| R637 | ERDS2TJ104 | 1/4W 100K | C412 | ECBT1E223ZF | 25V 0. 022U | | | |
| R638 | ERDS2TJ102 | 1/4W 1K | C414 | ECA1AM331B | 10V 330U | | | |
| R639 | ERDS2TJ223 | 1/4W 22K | C415 | ECBT1H102KB5 | 50V 1000P | | | |
| R640 | ERDS2TJ102 | 1/4W 1K | C421 | ECBT1H102KB5 | 50V 1000P | | | |
| R641 | ERDS2TJ822 | 1/4W 8. 2K | C501, 502 | ECA1HAP3R3B | 50V 3. 3U | | | |
| R644-646 | ERDS2TJ103 | 1/4W 10K | C503, 504 | ECBT1H331KB5 | 50V 330P | | | |
| R652 | ERDS2TJ102 | 1/4W 1K | C505, 506 | ECBT1H150J5 | 50V 15P | | | |
| R654, 655 | ERDS2TJ222 | 1/4W 2. 2K | C507, 508 | ECBT1C272KR5 | 16V 2700P | | | |
| R701 | ERQ16NKW2R2E | 1/4W 2. 2 Δ | C509, 510 | ECEA1HKA2R2B | 50V 2. 2U | | | |
| R702 | ERD2FCVJ4R7T | 1/4W 4. 7 Δ | C511, 512 | ECBT1C122KR5 | 16V 1200P | | | |
| R703, 704 | ERDS2TJ562 | 1/4W 5. 6K | C513 | ECEA1VU470 | 35V 47U | | | |
| R705, 706 | ERG1SJ471E | 1W 470 Δ | C514 | ECA2AAP100B | 100V 10U | | | |
| R707 | ERDS1FVJ820T | 1/2W 82 Δ | C515, 516 | ECBT1H104ZF5 | 50V 0. 1U | | | |
| R708 | ERDS2TJ472 | 1/4W 4. 7K | C557 | ECA1VM101B | 35V 100U | | | |
| R709 | ERG1SJ391E | 1W 390 Δ | C562 | ECEA1HKN010B | 50V 1U | | | |
| R711 | ERG1SJ331E | 1W 330 Δ | C571 | ECEA0JKA101B | 6. 3V 100U | | | |
| R713 | ERDS2TJ6R8 | 1/4W 6. 8 | C572 | ECBT1E223ZF | 25V 0. 022U | | | |
| R714 | ERDS2TJ153 | 1/4W 15K | C591, 592 | ECEA1HKA010B | 50V 1U | | | |
| R716 | ERDS2TJ393 | 1/4W 39K | C593, 594 | ECQV1H104JM3 | 50V 0. 1U | | | |
| R717 | ERDS2TJ473 | 1/4W 47K | C601-606 | ECEA1CKA100B | 16V 10U | | | |
| R751 | ERDS2TJ392T | 1/4W 3. 9K | C607 | ECEA0JU102 | 6. 3V 1000U | | | |

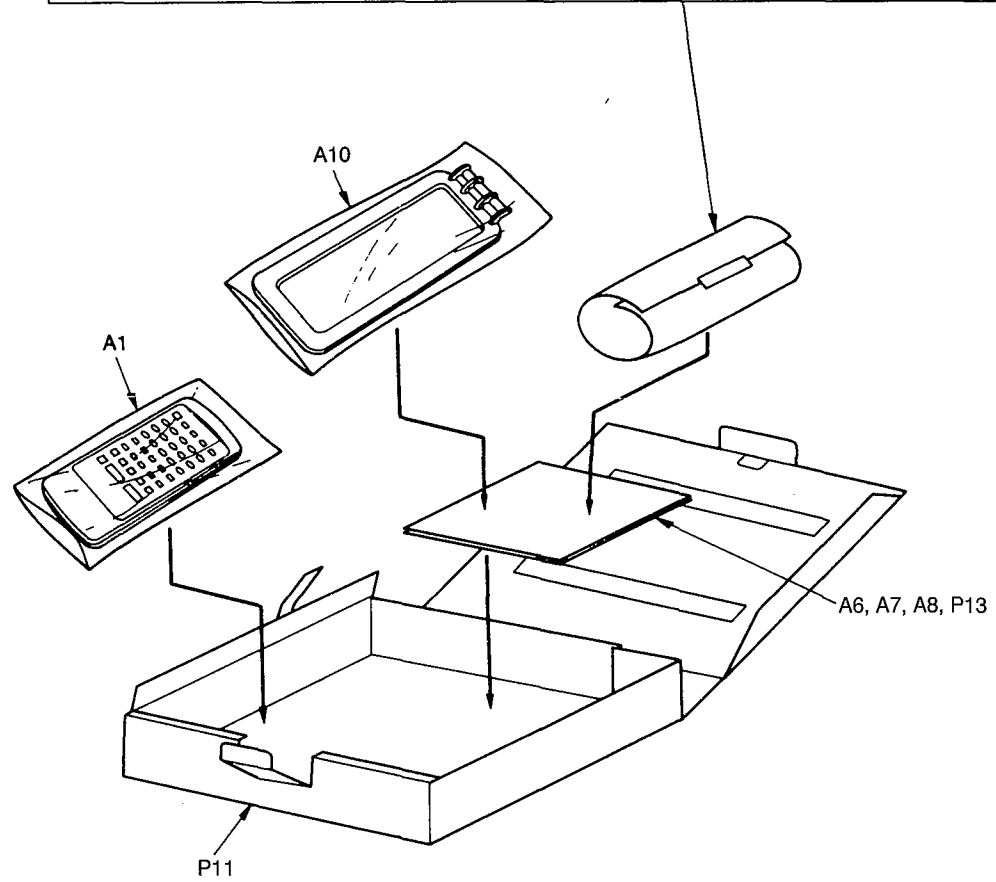
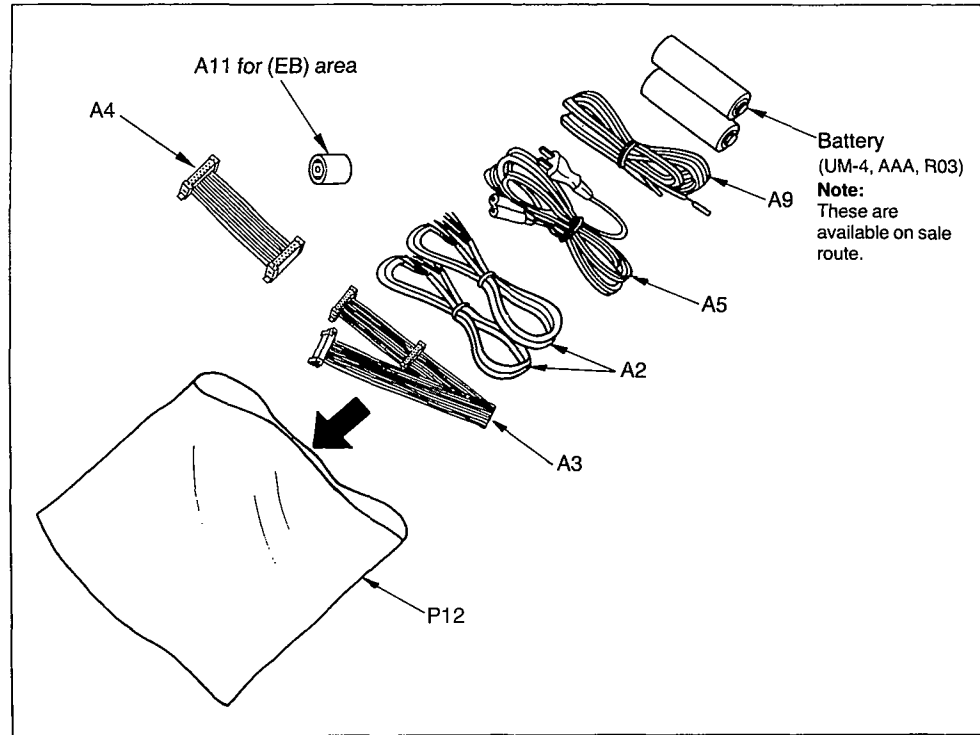
| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|--------------------------|----------|----------|--------------|-------------------------------|-----------------|
| | | CABINET PARTS LIST | | P4 | RPG1312 | PACKING CASE (AMPLIFIER) | |
| | | | | P5 | RPG1313 | PACKING CASE (DECK) | |
| | | | | P6 | RPND768 | PAD (CD) | |
| 1 | RKM0202B-1K | CABINET | | P7 | RPND719 | PAD (TUNER) | |
| 2 | RGW0183-K | KNOB, MAIN VOLUME | | P8 | RPND720 | PAD (AMPLIFIER) | |
| 3 | RFKJECH404EK | BOTTOM BOARD ASS' Y | | P9 | RPND721 | PAD (DECK) | |
| 3-1 | RKA0011-3 | FOOT | | P10 | XZB45X50A01Z | PROTECTION COVER | |
| 4 | RFKHECH515AE | REAR GRILL ASS' Y | (E) | P11 | RPQF0047 | ACCESSORIES BOX | |
| 4 | RFKHECH515EB | REAR GRILL ASS' Y | (EB) | P12 | XZB22X20C03 | POLYETHYLENE COVER | |
| 4 | RFKHECH515EG | REAR GRILL ASS' Y | (EG) | P13 | XZB24X34C04 | POLYETHYLENE COVER | |
| 5 | RKQ0089 | P. C. B. SPACER | | | | | |
| 6 | RMCO158 | TRANSISTOR HOLDER | | | | ACCESSORIES | |
| 7 | RMNO191 | HOLDER | | | | | |
| 8 | RFKGECH515AE | FRONT PANEL ASS' Y | | A1 | RAK-CH121WH | REMOTE CONTROL TRANSMITTER | |
| 8-1 | RKW0302-V | FL PANEL | | A1-1 | RKK0057-K | BATTERY COVER | |
| 9 | RGLO220-Q | LEADING LIGHT PANEL | | A2 | REE0393 | SPEAKER CORD | |
| 10 | RGU0939-K | BUTTON, POWER | | A3 | REX0511 | FLAT CABLE (15P) (LONG TYPE) | |
| 11 | RGU0940-K | BUTTON, RANGE | | A4 | REX0512 | FLAT CABLE (15P) (SHORT TYPE) | |
| 12 | RGW0178-K | KNOB, MIC VOLUME | | A5 | RJA0019-2K | AC POWER SUPPLY CORD | △ (SF) (E) (EG) |
| 13 | REZ0606 | FLAT CABLE (8P) (W703) | | A5 | VJAD733 | AC POWER SUPPLY CORD | △ (SF) (EB) |
| 14 | RWJ1812220QC | FLAT CABLE (12P) (W501) | | A6 | RFKSECH515AE | INSTRUCTIONS MANUAL | (E) |
| 15 | RWJ1808220XX | FLAT CABLE (8P) (W502) | | A6 | RFKSECH515EB | INSTRUCTIONS MANUAL | (EB) |
| 16 | RMNO195 | FL SPACER | | A6 | RQT2202-E | INSTRUCTIONS MANUAL | (EG) |
| 17 | RMNO237 | FL HOLDER (SH601) | | A7 | RQAD013 | WARRANTY CARD | |
| 18 | SNE4021-1 | NUT | | A8 | RQCB0169 | SERVICE CENTER LIST | |
| 19 | RMNO236 | MIC JACK P. C. B. HOLDER | | A9 | RSA0007 | FM INDOOR ANTENNA | |
| 20 | RMNO215 | FAN ANGLE | | A10 | RSA0010 | AM LOOP ANTENNA | |
| 21 | RGK0593-S | ORNAMENT RING | | A10-1 | RMNO244 | ANTENNA HOLDER | |
| 22 | SYE1128-2 | FAN ASS' Y | | A10-2 | XTN3+10AFZ | SCREW | |
| 22-1 | SHE232 | FAN | | A11 | SJP9009 | ATTACHMENT PLUG | △ (EB) |
| 22-2 | SJS271 | SPRING | | | | | |
| 22-3 | SHE233-1 | FAN CASE | | | | | |
| 22-4 | MDN-4RB4MRC | MOTOR | | | | | |
| 22-5 | SHE234 | CAP | | | | | |
| 22-6 | SJT783 | TERMINAL | | | | | |
| 22-7 | SJS5215 | CONNECTOR (2P) | | | | | |
| 23 | XTB3+8JFZ | SCREW | | | | | |
| 24 | XTW3+15T | SCREW | | | | | |
| 25 | RHD30007 | SCREW | | | | | |
| 26 | XTBS3+8JFZ1 | SCREW | | | | | |
| 27 | RHD30032 | SCREW | | | | | |
| 28 | XTW3+8T | SCREW | | | | | |
| 29 | XTBS26+8J | SCREW | | | | | |
| 30 | XTWS3+10T | SCREW | | | | | |
| 31 | XTB3+20JFZ | SCREW | | | | | |
| | | PACKING MATERIALS | | | | | |
| P1 | RPG1865 | PACKING CASE (SYSTEM) | (E) (EG) | | | | |
| P1 | RPG1866 | PACKING CASE (SYSTEM) | (EB) | | | | |
| P2 | RPG1437 | PACKING CASE (CD) | | | | | |
| P3 | RPG1314 | PACKING CASE (TUNER) | | | | | |

■ Cabinet Parts Location



■ Packaging





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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.

*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 |
|-----------|--------------|-------------------------|----------|-----------|--------------|---------------------------|---------------|
| | | INTEGRATED CIRCUIT(S) | | D612, 613 | MA165 | DIODE | |
| | | | | D614 | 1SS291TA | DIODE | |
| | | | | D615-618 | MA165 | DIODE | |
| IC301 | M5218AP | I. C, HEADPHONES AMP. | | D619, 620 | MA4062MTA | DIODE | Δ |
| IC351 | M5218AP | I. C, SIGNAL LEVEL DET. | | D631, 632 | MA165 | DIODE | |
| IC401 | AN6558-FSG | I. C, MIC AMP. | | D701-704 | P300D5002T | DIODE | Δ |
| IC501 | SV13102D | I. C, POWER AMP. | Δ | D705, 706 | 1SR35200TB | DIODE | Δ |
| IC601 | LC65204A4B79 | I. C, FL DRIVE | | D709, 710 | MA185TA | DIODE | Δ |
| IC602 | BA4558DK | I. C, METER AMP. | | D711 | MA165 | DIODE | |
| | | TRANSISTOR(S) | | D712 | MA4240H | DIODE | |
| | | | | D714 | MA4062-H | DIODE | Δ |
| | | | | D715, 716 | MA4150M | DIODE | Δ |
| | | | | D717 | MA4051MTA | DIODE | Δ |
| Q201, 202 | 2SD1450RTA | TRANSISTOR | | D750 | MA4270HTA | DIODE | Δ |
| Q203 | UN4115 | TRANSISTOR | | | | | |
| Q352 | KSD471ACYGTA | TRANSISTOR | Δ | | | VARIABLE RESISTOR(S) | |
| Q354 | 2SC3311AIRTA | TRANSISTOR | | | | | |
| Q361 | KSD471ACYGTA | TRANSISTOR | Δ | VR401 | EVJ02BF02B14 | V. R, MIC VOLUME CONTROL | |
| Q362 | 2SC3327-A | TRANSISTOR | Δ | VR601 | EVQWQAF2524B | V. R, MAIN VOLUME CONTROL | |
| Q371 | 2SC3311ARSTA | TRANSISTOR | | | | | |
| Q571, 572 | 2SC3311AIRTA | TRANSISTOR | | | | COIL (S) | |
| Q573 | 2SA1309AIQTA | TRANSISTOR | | L501, 502 | SLQY07G-40 | COIL | |
| Q591, 592 | 2SC3312RSTA | TRANSISTOR | | L601 | ELEXT100KA9 | COIL | |
| Q601 | UN4211 | TRANSISTOR | | L701 | RLQZ271M | COIL | Δ (EG) |
| Q611 | UN4211 | TRANSISTOR | | | | | |
| Q612 | UN4111 | TRANSISTOR | | | | OSCILLATOR (S) | |
| Q613, 614 | 2SD1450RTA | TRANSISTOR | | | | | |
| Q701 | 2SD1762EF | TRANSISTOR | Δ | X601 | EF0EC4004T4 | OSCILLATOR (4MHz) | |
| Q702 | 2SB1185EF | TRANSISTOR | Δ | | | | |
| Q703 | 2SC3940AQSTA | TRANSISTOR | Δ | | | DISPLAY | |
| Q704 | 2SC3112TA | TRANSISTOR | | FL601 | RSL0162-F | FL DISPLAY | |
| Q750 | 2SB1357DEFTA | TRANSISTOR | Δ | | | | |
| Q751, 752 | 2SD1450RTA | TRANSISTOR | | | | FUSE (S) | |
| Q753 | UN4111 | TRANSISTOR | | F1 | XBA2C12TB0S | FUSE, 250V T1. 25A | Δ |
| | | DIODE(S) | | F701, 702 | XBA2C16TB0 | FUSE, 250V T1. 6A | Δ |
| | | | | | | | |
| D351 | MA165 | DIODE | | | | SWITCH (ES) | |
| D352 | MA4068M | DIODE | Δ | S601 | EVQ21405R | SW, POWER | |
| D361 | MA4091-M | DIODE | Δ | S603 | EVQ21405R | SW, RANGE | |
| D362 | MA165 | DIODE | | | | | |
| D371 | MA165 | DIODE | | | | CONNECTOR(S) | |
| D401 | MA4062MTA | DIODE | | | | | |
| D602 | SLR-305VC | LED | | | | | |
| D603 | MA165 | DIODE | | | | | |
| D610 | MA165 | DIODE | | | | | |
| D611 | 1SS291TA | DIODE | | | | | |

Notes: * Capacity values are in microfarads (μ 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)

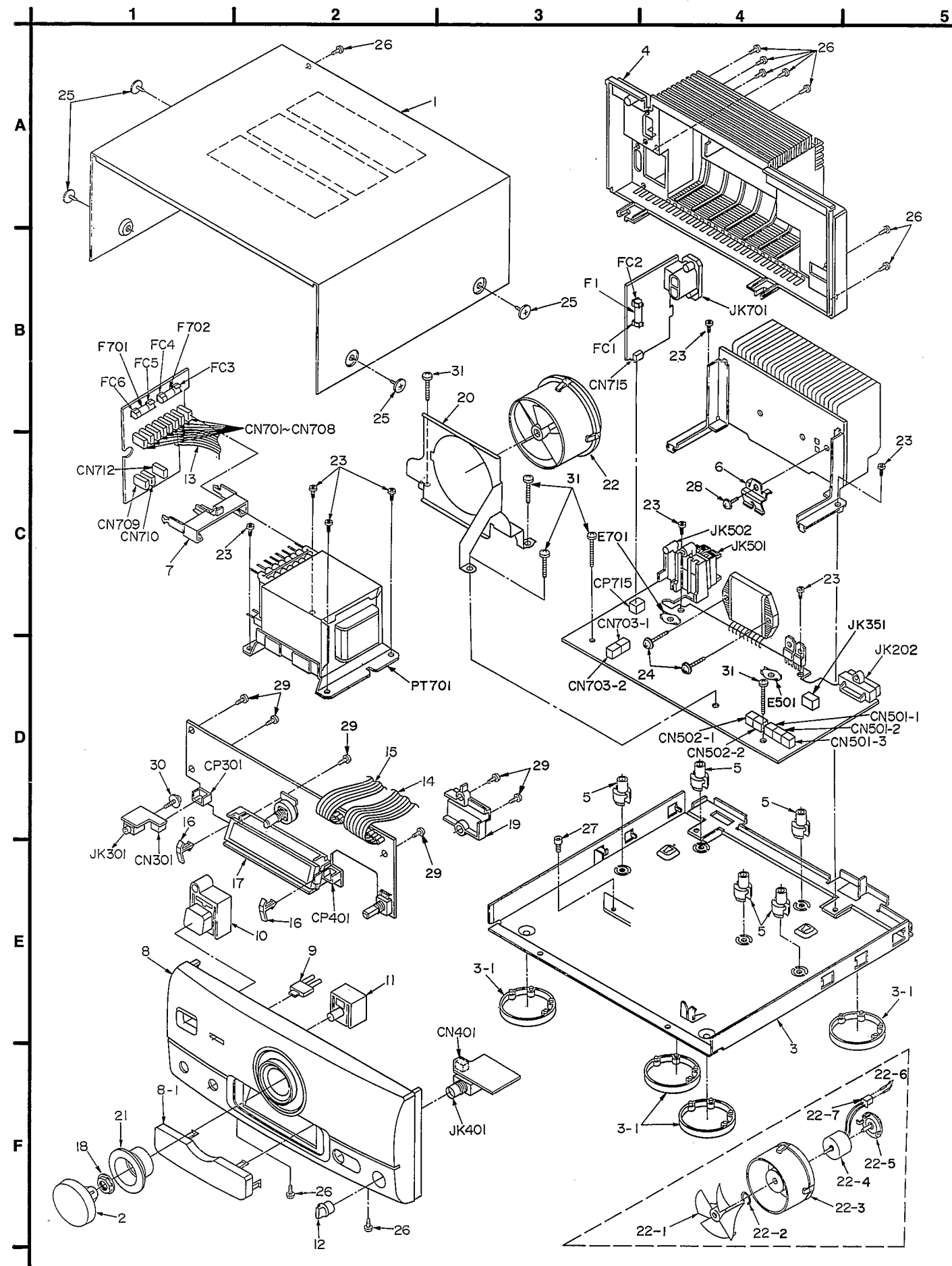
| Ref. No. | Part No. | Part Name & Description | Remarks |
|------------|--------------|-----------------------------|----------|
| CN301 | RJU057W004 | SOCKET (4P) | |
| CN401 | RJU057W004 | SOCKET (4P) | |
| CN701-710 | RJS1A1101T1 | SOCKET (1P) | |
| CN712 | RJS1A1101T1 | SOCKET (1P) | |
| CN715 | RJU057W004 | SOCKET (4P) | |
| CN501-1-3 | RJS1A6604 | SOCKET (4P) | |
| CN502-1, 2 | RJS1A6604 | SOCKET (4P) | |
| CN703-1, 2 | RJS1A6604 | SOCKET (4P) | |
| CP301 | RJT057W004-1 | CONNECTOR (4P) | |
| CP401 | RJT057W004-1 | CONNECTOR (4P) | |
| CP715 | RJT057W004-1 | CONNECTOR (4P) | |
| | | EARTH TERMINAL(S) | |
| E501 | SNE1004-1 | GND PLATE | |
| E701 | SNE1004-1 | GND PLATE | |
| | | FUSE HOLDER(S) | |
| FC1-6 | EYF52BC | FUSE HOLDER | |
| | | TRANSFORMER | |
| PT701 | RTP2M5B003 | POWER TRANSFORMER | Δ |
| | | RELAY | |
| RL701 | RSY0013M-0 | RELAY | Δ |
| | | JACK(S) | |
| JK202 | RJT065W15 | CONNECTOR (15P) | |
| JK301 | RJJ37TN01-C | HEADPHONES JACK | |
| JK351 | SJT3213 | CONNECTOR (2P) | |
| JK401 | RJJ65MA01 | MIC JACK | |
| JK501 | RJR0054M | SPEAKER TERMINAL | |
| JK502 | SJF3068-12N | SPEAKER TERMINAL (SURROUND) | |
| JK701 | SJS9236 | AC INLET | Δ |

| Ref. No. | Part No. | Values & Remarks |
|-----------|--------------|------------------|
| | | RESISTORS |
| R159 | ERDS2TJ100 | 1/4W 10 |
| R217, 218 | ERDS2TJ102 | 1/4W 1K |
| R223, 224 | ERDS2TJ122 | 1/4W 1.2K |
| R251 | ERDS2TJ222 | 1/4W 2.2K |
| R253, 254 | ERDS2EJ121 | 1/4W 120 |
| R255 | ERDS2TJ154 | 1/4W 150K |
| R256 | ERDS2TJ105T | 1/4W 1M |
| R259 | ERDS2TJ561 | 1/4W 560 |
| R291, 292 | ERDS2TJ104 | 1/4W 100K |
| R301, 302 | ERDS2TJ223 | 1/4W 22K |
| R303, 304 | ERDS2TJ333 | 1/4W 33K |
| R305, 306 | ERDS2TJ223 | 1/4W 22K |
| R307, 308 | ERDS2TJ102 | 1/4W 1K |
| R309-312 | ERDS2EJ121 | 1/4W 120 |
| R351 | ERDS2TJ563 | 1/4W 56K |
| R352 | ERDS2TJ184T | 1/4W 180K |
| R353 | ERDS2TJ474 | 1/4W 470K |
| R354 | ERDS2TJ102 | 1/4W 1K |
| R355 | ERDS2TJ103 | 1/4W 10K |
| R356 | ERDS2TJ332 | 1/4W 3.3K |
| R357 | ERDS1FVJ100T | 1/2W 10 Δ |
| R358 | ERDS1FVJ220T | 1/2W 22 Δ |
| R361 | ERDS2TJ474 | 1/4W 470K |
| R362 | ERDS2TJ102 | 1/4W 1K |
| R371, 372 | ERDS2TJ273 | 1/4W 27K |
| R373 | ERDS2TJ222 | 1/4W 2.2K |
| R374 | ERDS2TJ273 | 1/4W 27K |
| R375 | ERDS2TJ822 | 1/4W 8.2K |
| R398 | ERDS2TJ332 | 1/4W 3.3K |
| R399 | ERDS2TJ154 | 1/4W 150K |
| R401 | ERDS2TJ221 | 1/4W 220 |
| R403 | ERDS2TJ473 | 1/4W 47K |
| R404 | ERDS2TJ123 | 1/4W 12K |
| R405 | ERDS2TJ474 | 1/4W 470K |
| R406 | ERDS2TJ102 | 1/4W 1K |
| R407 | ERDS2TJ104 | 1/4W 100K |
| R408 | ERDS2TJ473 | 1/4W 47K |
| R409 | ERDS2TJ332 | 1/4W 3.3K |
| R410 | ERDS2TJ102 | 1/4W 1K |
| R411 | ERDS2TJ562 | 1/4W 5.6K |
| R412 | ERDS2TJ102 | 1/4W 1K |
| R420 | ERDS2TJ104 | 1/4W 100K |
| R501, 502 | ERDS2TJ102 | 1/4W 1K |
| R503-506 | ERDS2TJ563 | 1/4W 56K |
| R507-510 | ERDS2TJ102 | 1/4W 1K |
| R511 | ERDS2TJ334 | 1/4W 330K |

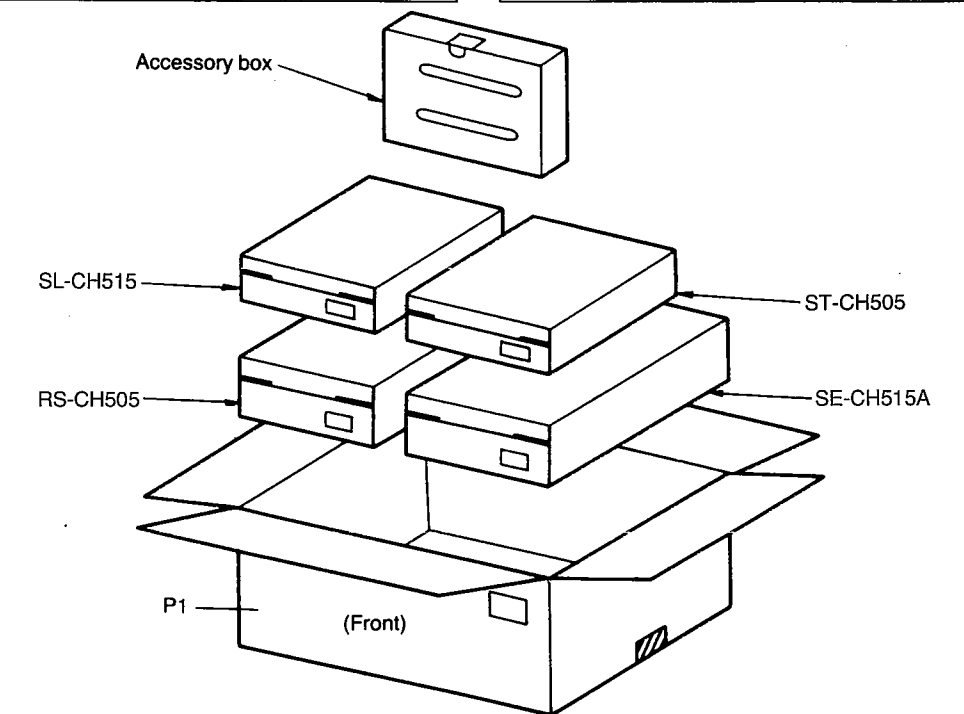
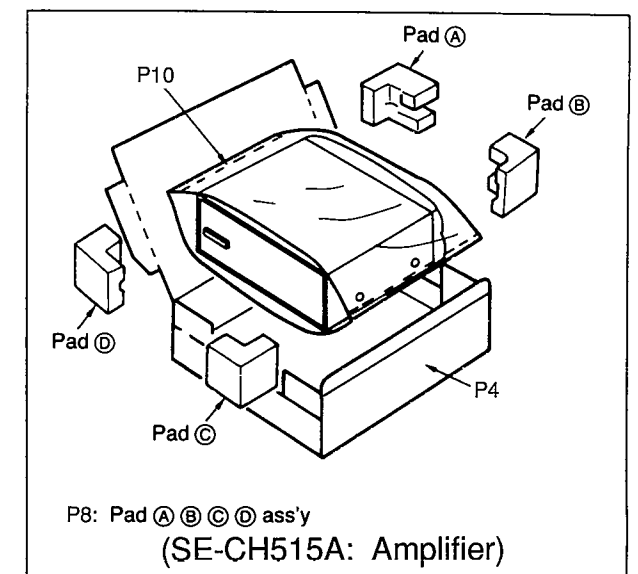
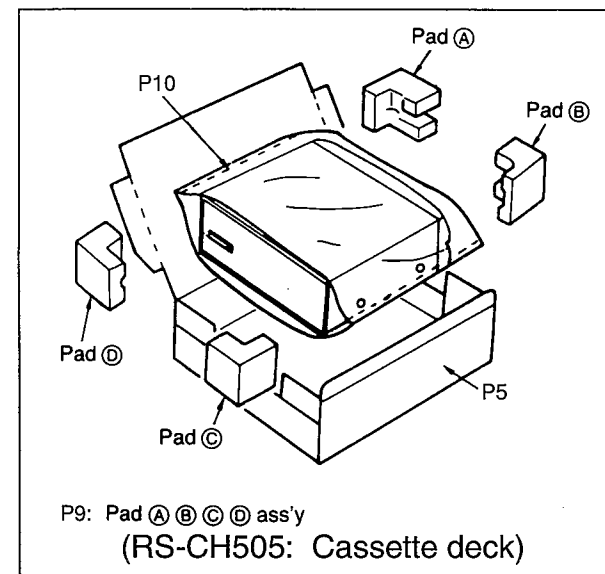
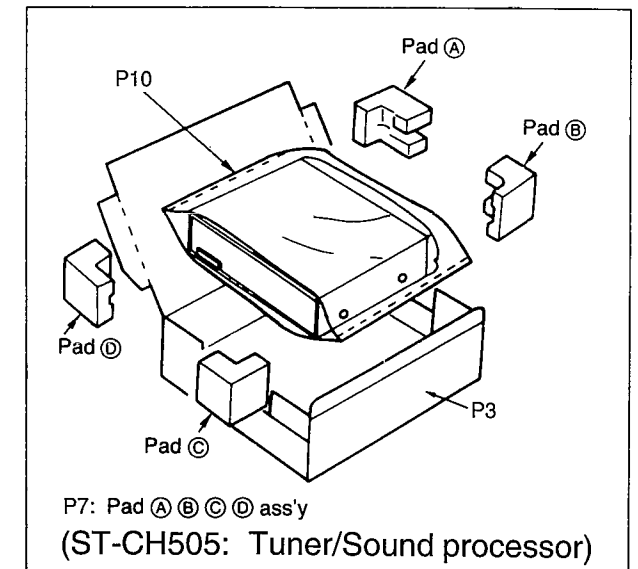
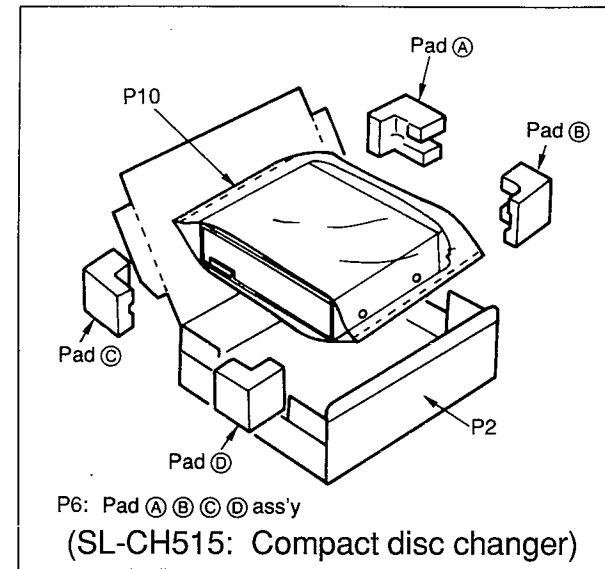
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|-----------|--------------|--------------------|-----------|--------------|------------------|-------------|--------------|--------------------|
| R512 | ERDS2TJ154 | 1/4W 150K | R752 | ERDS2TJ332 | 1/4W 3. 3K | C609 | ECBT1E103ZF | 25V 0. 01U |
| R513 | ERDS2TJ684 | 1/4W 680K | R754 | ERDS2TJ1R0 | 1/4W 1. 0 | C610, 611 | ECEA1CKA100B | 16V 10U |
| R514 | ERD25FJ470 | 1/4W 47 Δ | R780 | ERDS2TJ822 | 1/4W 8. 2K | C612 | ECEA1HKA3R3B | 50V 3. 3U |
| R515, 516 | ERDS1FVJ100T | 1/2W 10 Δ | R799 | ERDS2TJ103 | 1/4W 10K | C613, 614 | ECBT1E103ZF | 25V 0. 01U |
| R517, 518 | ERD25FVJ100T | 1/4W 10 Δ | | | | C615, 616 | ECEA1VKA330B | 35V 33U |
| R571 | ERDS2TJ823T | 1/4W 82K | | | CAPACITORS | C617, 618 | ECEA1CKA100B | 16V 10U |
| R572 | ERDS2TJ124T | 1/4W 120K | | | | C621, 622 | ECBT1E223ZF | 25V 0. 022U |
| R573 | ERDS2TJ563 | 1/4W 56K | C251 | ECEAOJKA221B | 6. 3V 220U | C632 | ECEA1HKA010B | 50V 1U |
| R574 | ERDS2TJ564 | 1/4W 560K | C301, 302 | ECEA1HKA3R3B | 50V 3. 3U | C641-645 | ECBT1E103ZF | 25V 0. 01U |
| R575 | ERDS2TJ223 | 1/4W 22K | C303, 304 | ECBT1H150J5 | 50V 15P | C671, 672 | ECBT1C822KS5 | 16V 8200P |
| R591, 592 | ERDS2TJ391 | 1/4W 390 | C305, 306 | ECBT1H330J5 | 50V 33P | C701, 702 | ECEA45V472YB | 45V 4700U Δ |
| R593, 594 | ERDS2TJ182 | 1/4W 1. 8K | C307, 308 | ECEA1CKA220B | 16V 22U | C703, 704 | ECEA1CKA330B | 16V 33U |
| R595, 596 | ERDS2TJ473 | 1/4W 47K | C351 | ECEA1CKA100B | 16V 10U | C705, 706 | ECKR1H103ZF5 | 50V 0. 01U |
| R597, 598 | ERDS2TJ123 | 1/4W 12K | C352 | ECBT1E223ZF | 25V 0. 022U | C707 | ECA1HM221B | 50V 220U Δ |
| R602 | ERDS2TJ471 | 1/4W 470 | C353 | ECEA1HKA2R2B | 50V 2. 2U | C708 | ECEA1CKA100B | 16V 10U |
| R610 | ERDS2TJ103 | 1/4W 10K | C361 | ECEA1CN470SB | 16V 47U | C709, 710 | ECBT1E103ZF | 25V 0. 01U |
| R611, 612 | ERDS2TJ333 | 1/4W 33K | C362 | ECEA1CKA100B | 16V 10U | C711 | ECQE1104KF3 | 100V 0. 1U |
| R613, 614 | ERDS2TJ274 | 1/4W 270K | C371 | ECEAOJKA221B | 6. 3V 220U | C712 | ECBT1E223ZF | 25V 0. 022U |
| R615, 616 | ERDS2TJ123 | 1/4W 12K | C381, 382 | ECBT1E103ZF | 25V 0. 01U | C714 | ECKR1H103ZF5 | 50V 0. 01U |
| R617, 618 | ERDS2TJ273 | 1/4W 27K | C395, 396 | ECBT1E223ZF | 25V 0. 022U | C731, 732 | ECKT1H102KB | 50V 1000P |
| R619, 620 | ERDS2TJ223 | 1/4W 22K | C397, 398 | ECBT1E103ZF | 25V 0. 01U | C751 | ECEA1VKA100B | 35V 10U |
| R621, 622 | ERDS2TJ824 | 1/4W 820K | C401 | ECBT1H221KB5 | 50V 220P | C752 | ECKR1H103ZF5 | 50V 0. 01U |
| R623, 624 | ERDS2TJ220T | 1/4W 22 | C403 | ECEA1HKA3R3B | 50V 3. 3U | C905, 906 | ECBT1H101KB5 | 50V 100P |
| R625, 626 | ERDS2TJ473 | 1/4W 47K | C404 | ECBT1H221KB5 | 50V 220P | C1101, 1102 | ECBT1E223ZF | 25V 0. 022U |
| R627, 628 | ERDS2TJ102 | 1/4W 1K | C405 | ECBT1H101KB5 | 50V 100P | C1103-1106 | ECBT1H102KB5 | 50V 1000P |
| R629 | ERDS2TJ472 | 1/4W 4. 7K | C406 | ECEA1CKA100B | 16V 10U | | | |
| R630 | ERDS2TJ222 | 1/4W 2. 2K | C407 | ECEA1HKA3R3B | 50V 3. 3U | | | |
| R631 | ERDS2TJ105T | 1/4W 1M | C408 | ECBT1H181KB5 | 50V 180P | | | |
| R632 | ERDS2TJ334 | 1/4W 330K | C409 | ECEA1HKA010B | 50V 1U | | | |
| R633, 634 | ERDS2TJ102 | 1/4W 1K | C410 | ECBT1H221KB5 | 50V 220P | | | |
| R635, 636 | ERDS2TJ752T | 1/4W 7. 5K | C411 | ECBT1E103ZF | 25V 0. 01U | | | |
| R637 | ERDS2TJ104 | 1/4W 100K | C412 | ECBT1E223ZF | 25V 0. 022U | | | |
| R638 | ERDS2TJ102 | 1/4W 1K | C414 | ECA1AM331B | 10V 330U | | | |
| R639 | ERDS2TJ223 | 1/4W 22K | C415 | ECBT1H102KB5 | 50V 1000P | | | |
| R640 | ERDS2TJ102 | 1/4W 1K | C421 | ECBT1H102KB5 | 50V 1000P | | | |
| R641 | ERDS2TJ822 | 1/4W 8. 2K | C501, 502 | ECA1HAP3R3B | 50V 3. 3U | | | |
| R644-646 | ERDS2TJ103 | 1/4W 10K | C503, 504 | ECBT1H331KB5 | 50V 330P | | | |
| R652 | ERDS2TJ102 | 1/4W 1K | C505, 506 | ECBT1H150J5 | 50V 15P | | | |
| R654, 655 | ERDS2TJ222 | 1/4W 2. 2K | C507, 508 | ECBT1C272KR5 | 16V 2700P | | | |
| R701 | ERQ16NKW2R2E | 1/4W 2. 2 Δ | C509, 510 | ECEA1HKA2R2B | 50V 2. 2U | | | |
| R702 | ERD2FCVJ4R7T | 1/4W 4. 7 Δ | C511, 512 | ECBT1C122KR5 | 16V 1200P | | | |
| R703, 704 | ERDS2TJ562 | 1/4W 5. 6K | C513 | ECEA1VU470 | 35V 47U | | | |
| R705, 706 | ERG1SJ471E | 1W 470 Δ | C514 | ECA2AAP100B | 100V 10U | | | |
| R707 | ERDS1FVJ820T | 1/2W 82 Δ | C515, 516 | ECBT1H104ZF5 | 50V 0. 1U | | | |
| R708 | ERDS2TJ472 | 1/4W 4. 7K | C557 | ECA1VM101B | 35V 100U | | | |
| R709 | ERG1SJ391E | 1W 390 Δ | C562 | ECEA1HKN010B | 50V 1U | | | |
| R711 | ERG1SJ331E | 1W 330 Δ | C571 | ECEAOJKA101B | 6. 3V 100U | | | |
| R713 | ERDS2TJ6R8 | 1/4W 6. 8 | C572 | ECBT1E223ZF | 25V 0. 022U | | | |
| R714 | ERDS2TJ153 | 1/4W 15K | C591, 592 | ECEA1HKA010B | 50V 1U | | | |
| R716 | ERDS2TJ393 | 1/4W 39K | C593, 594 | ECQV1H104JM3 | 50V 0. 1U | | | |
| R717 | ERDS2TJ473 | 1/4W 47K | C601-606 | ECEA1CKA100B | 16V 10U | | | |
| R751 | ERDS2TJ392T | 1/4W 3. 9K | C607 | ECEAOJU102 | 6. 3V 1000U | | | |

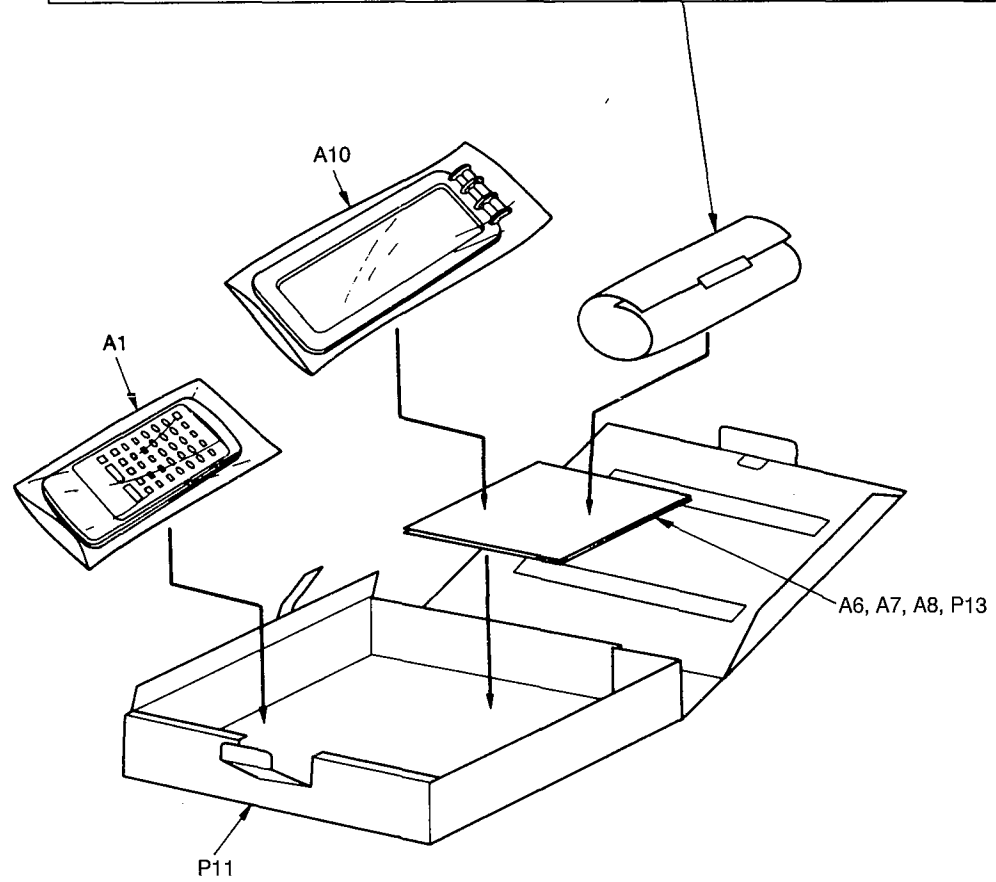
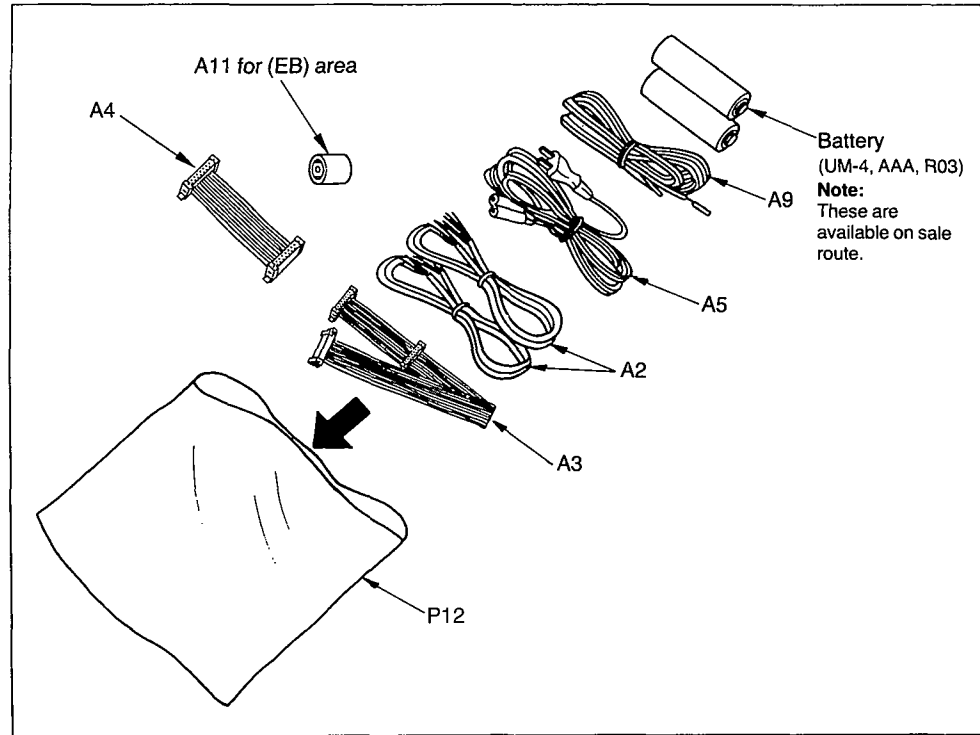
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|----------|--------------|--------------------------|----------|----------|--------------|-------------------------------|-----------------|
| | | CABINET PARTS LIST | | P4 | RPG1312 | PACKING CASE (AMPLIFIER) | |
| | | | | P5 | RPG1313 | PACKING CASE (DECK) | |
| | | | | P6 | RPND768 | PAD (CD) | |
| 1 | RKM0202B-1K | CABINET | | P7 | RPND719 | PAD (TUNER) | |
| 2 | RGW0183-K | KNOB, MAIN VOLUME | | P8 | RPND720 | PAD (AMPLIFIER) | |
| 3 | RFKJECH404EK | BOTTOM BOARD ASS' Y | | P9 | RPND721 | PAD (DECK) | |
| 3-1 | RKA0011-3 | FOOT | | P10 | XZB45X50A01Z | PROTECTION COVER | |
| 4 | RFKHECH515AE | REAR GRILL ASS' Y | (E) | P11 | RPQF0047 | ACCESSORIES BOX | |
| 4 | RFKHECH515EB | REAR GRILL ASS' Y | (EB) | P12 | XZB22X20C03 | POLYETHYLENE COVER | |
| 4 | RFKHECH515EG | REAR GRILL ASS' Y | (EG) | P13 | XZB24X34C04 | POLYETHYLENE COVER | |
| 5 | RKQ0089 | P. C. B. SPACER | | | | | |
| 6 | RMCO158 | TRANSISTOR HOLDER | | | | ACCESSORIES | |
| 7 | RMNO191 | HOLDER | | | | | |
| 8 | RFKGECH515AE | FRONT PANEL ASS' Y | | A1 | RAK-CH121WH | REMOTE CONTROL TRANSMITTER | |
| 8-1 | RKW0302-V | FL PANEL | | A1-1 | RKK0057-K | BATTERY COVER | |
| 9 | RGLO220-Q | LEADING LIGHT PANEL | | A2 | REE0393 | SPEAKER CORD | |
| 10 | RGU0939-K | BUTTON, POWER | | A3 | REX0511 | FLAT CABLE (15P) (LONG TYPE) | |
| 11 | RGU0940-K | BUTTON, RANGE | | A4 | REX0512 | FLAT CABLE (15P) (SHORT TYPE) | |
| 12 | RGW0178-K | KNOB, MIC VOLUME | | A5 | RJA0019-2K | AC POWER SUPPLY CORD | △ (SF) (E) (EG) |
| 13 | REZ0606 | FLAT CABLE (8P) (W703) | | A5 | VJAD733 | AC POWER SUPPLY CORD | △ (SF) (EB) |
| 14 | RWJ1812220QC | FLAT CABLE (12P) (W501) | | A6 | RFKSECH515AE | INSTRUCTIONS MANUAL | (E) |
| 15 | RWJ1808220XX | FLAT CABLE (8P) (W502) | | A6 | RFKSECH515EB | INSTRUCTIONS MANUAL | (EB) |
| 16 | RMNO195 | FL SPACER | | A6 | RQT2202-E | INSTRUCTIONS MANUAL | (EG) |
| 17 | RMNO237 | FL HOLDER (SH601) | | A7 | RQAD013 | WARRANTY CARD | |
| 18 | SNE4021-1 | NUT | | A8 | RQCB0169 | SERVICE CENTER LIST | |
| 19 | RMNO236 | MIC JACK P. C. B. HOLDER | | A9 | RSA0007 | FM INDOOR ANTENNA | |
| 20 | RMNO215 | FAN ANGLE | | A10 | RSA0010 | AM LOOP ANTENNA | |
| 21 | RGK0593-S | ORNAMENT RING | | A10-1 | RMNO244 | ANTENNA HOLDER | |
| 22 | SYE1128-2 | FAN ASS' Y | | A10-2 | XTN3+10AFZ | SCREW | |
| 22-1 | SHE232 | FAN | | A11 | SJP9009 | ATTACHMENT PLUG | △ (EB) |
| 22-2 | SJS271 | SPRING | | | | | |
| 22-3 | SHE233-1 | FAN CASE | | | | | |
| 22-4 | MDN-4RB4MRC | MOTOR | | | | | |
| 22-5 | SHE234 | CAP | | | | | |
| 22-6 | SJT783 | TERMINAL | | | | | |
| 22-7 | SJS5215 | CONNECTOR (2P) | | | | | |
| 23 | XTB3+8JFZ | SCREW | | | | | |
| 24 | XTW3+15T | SCREW | | | | | |
| 25 | RHD30007 | SCREW | | | | | |
| 26 | XTBS3+8JFZ1 | SCREW | | | | | |
| 27 | RHD30032 | SCREW | | | | | |
| 28 | XTW3+8T | SCREW | | | | | |
| 29 | XTBS26+8J | SCREW | | | | | |
| 30 | XTWS3+10T | SCREW | | | | | |
| 31 | XTB3+20JFZ | SCREW | | | | | |
| | | PACKING MATERIALS | | | | | |
| P1 | RPG1865 | PACKING CASE (SYSTEM) | (E) (EG) | | | | |
| P1 | RPG1866 | PACKING CASE (SYSTEM) | (EB) | | | | |
| P2 | RPG1437 | PACKING CASE (CD) | | | | | |
| P3 | RPG1314 | PACKING CASE (TUNER) | | | | | |

■ Cabinet Parts Location



■ Packaging





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