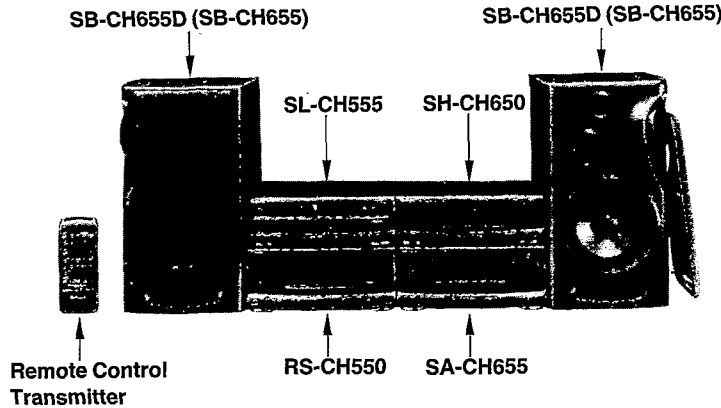


# Service Manual

Tuner Amplifier

Tuner Amplifier

## SA-CH655



Colour

(K) ..... Black Type

**Areas**

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	

**Note:**  
On the above picture, Model No. SB-CH655D is printed as the system speaker.  
The surround speakers are not supplied with model No. SB-CH655.

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

**System: SC-CH655**

### SPECIFICATIONS

(DIN 45 500)

■ MAIN AMP. SECTION

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

SPACE MODE

(Only for the system with SB-CH655D)  
MAIN 1 kHz THD 1% 2×45 W (6Ω)  
SURROUND 1 kHz THD 1% 2×5 W (8Ω)

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 (IHF, A 88 dB)

Frequency response 40 Hz–30 kHz (–3 dB)

■ FM TUNER SECTION

Frequency range 87.50–108.00 MHz (0.05 MHz steps)

Sensitivity 1.8 μV (IHF, usable)

S/N 26 dB 1.5 μV (75Ω)

S/N

MONO 70 dB (75 dB, IHF)

Stereo separation at 1 kHz 35 dB

Antenna terminal(s) 75Ω (unbalanced)

■ AM TUNER SECTION

Frequency range

MW  
For (E, EB, EG, GN) areas 522–1611 kHz (9 kHz steps)  
530–1620 kHz (10 kHz steps)  
For (GC) area 531–1602 kHz (9 kHz steps)  
530–1600 kHz (10 kHz steps)

LW  
For (E, EB, EG, GN) areas 144–288 kHz (9 kHz steps)  
For (GC) area 153–279 kHz (9 kHz steps)

Sensitivity (S/N 20 dB)

MW 500 μV/m  
LW 50 μV

■ TIMER SECTION

Clock Quartz-lock type

Function 24-hour programmable; Play timer (1 time)  
Rec timer (1 time)  
Sleep (120 min. 1 min. intervals)

Setting 1 minute–23 hours. 59 minutes (1 min. intervals)

System	Sound processor	Tuner amplifier	Compact disc player	Cassette deck	Speakers
SC-CH655	SH-CH650	SA-CH655	SL-CH555	RS-CH550	SB-CH655 (Made in PAES) ..... (E), (EB), (EG) areas SB-CH655D..... (GC), (GN) areas

# Technics

## ■ GENERAL

### Power consumption

For (E, EB, EG, GN) areas	166 W
For (GC) area	175 W

### Power supply

For (E, EG) areas	AC 50/60 Hz, 230 V
For (EB, GN) areas	AC 50/60 Hz, 230 V-240 V
For (GC) area	AC 50/60 Hz, 110/127/220/240 V

### Dimension (W×H×D)

270×119×332 mm

### Weight

5.5 kg

### Notes:

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

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## ■ BEFORE REPAIR

- 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.
- Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode is mode should be shown below with respect to supply voltage 110 V/127 V/ 220 V/240 V.

Power supply voltage	AC 110~127 V	AC 220~240 V	AC 230 V	AC 240 V
Consumed current 50 Hz	250~350 mA	95~175 mA	100~190 mA	95~175 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:

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

### Note:

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

## ■ BEFORE USE FOR (GC) AREA

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus (-) screwdriver to set the voltage selector (on the bottom of the tuner amplifier) to the voltage setting for the area in which the unit will be used.

(If the power supply in your area is 117 V or 120 V, set to the "127 V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

**THIS TUNER/RECEIVER IS CAPABLE OF RECEIVING THE NEW AM STEREO BROADCASTS FROM THE AM BAND RADIO STATIONS. HOWEVER LIKE MANY TUNERS AND RECEIVERS CURRENTLY AVAILABLE ON THE MARKET IT WILL REPRODUCE THIS AM STEREO SIGNAL ONLY IN AM MONO, WHICH, IN EFFECT, IS OF NO LESSER QUALITY THAN YOUR EXISTING AM MONO TUNER/RECEIVER.**



## ■ CAUTION FOR AC MAINS LEAD (For United Kingdom)

("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 the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

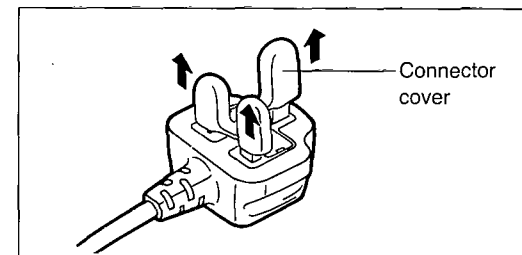
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

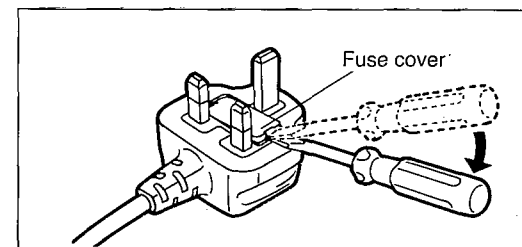
### Before use

Remove the connector cover as follows.

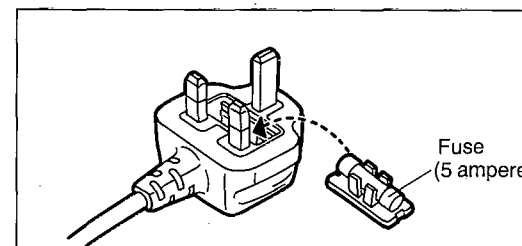


### How to replace the fuse

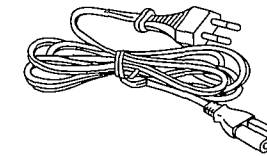
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.

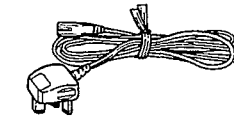


## ■ ACCESSORIES

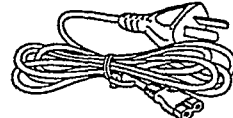


● AC power supply cord

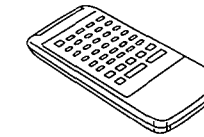
for (E, EG, GC) areas (RJA0019-2K) ..... 1 pc.



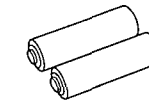
for (EB) area (VJA0733) ..... 1 pc.



for (GN) area (SJA173) ..... 1 pc.

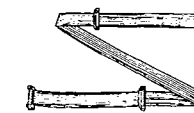


● Remote control transmitter  
(RAK-SC003WH) ..... 1 pc.

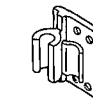


● Remote control batteries  
(UM-4, AAA, R03) ..... 2 pcs.

**Note:** These are available on sale route.



● Flat cable  
(REX0462) ..... 1 pc.



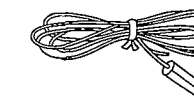
● Antenna holder  
(SMA233-1M) ..... 1 pc.



● LW/MW loop antenna  
(SPB1163T) ..... 1 pc.



● Mounting screws  
(XTN3+10AFZ) ..... 2 pcs.

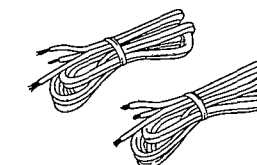


● FM indoor antenna

for (E, EB, EG) areas (RSA0007) ..... 1 pc.  
for (GC, GN) areas (RSA0006) ..... 1 pc.



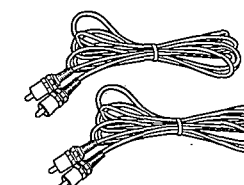
● Attachment plug  
for (EB) area (SJP9009) ..... 1 pc.



● Speaker cords  
(SWXS257M) ..... 2 pcs.



● Power plug adaptor  
for (GC) area (SJP5213-2) ..... 1 pc.



● Surround speaker cords

for (GC, GN) areas (RJL1P001B25) ..... 2 pcs.

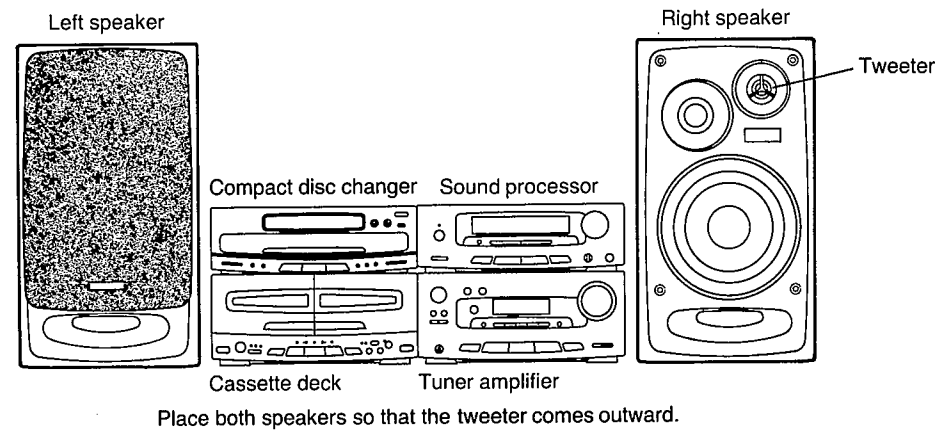
**Note:**

The configurations of AC power supply cord and FM indoor antenna differ according to area.

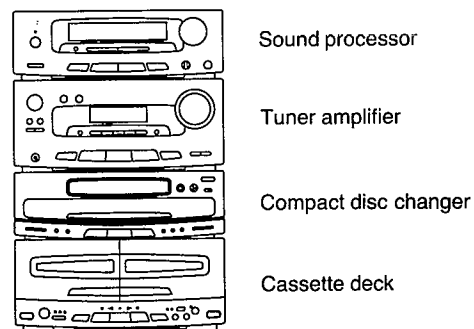
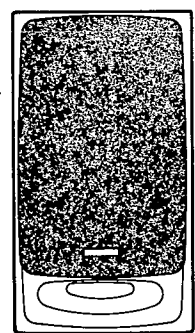
## ■ STACKING THE COMPONENTS

Install the various components as shown below.

### ■ Horizontal stacking



### ■ Vertical stacking



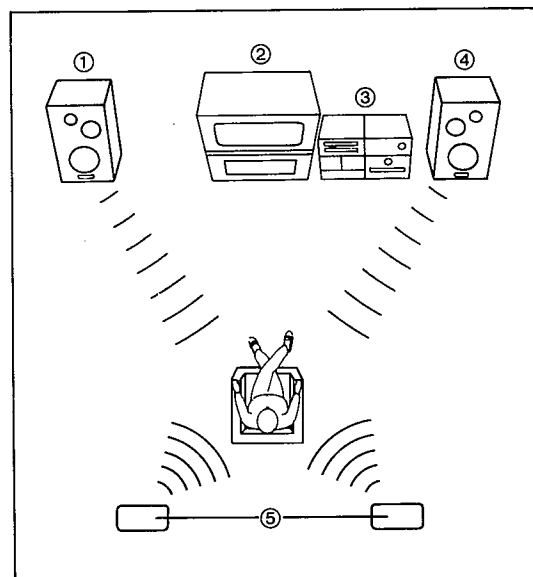
Sound processor

Tuner amplifier

Compact disc changer

Cassette deck

### ■ System layout



① Left speaker

② Television set  
(not included)

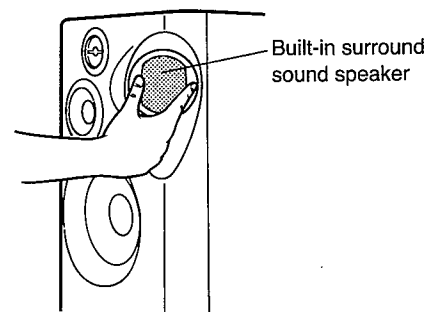
③ This system

④ Right speaker

⑤ Surround speakers  
(not included)

**(Only for the system with SB-CH655D):**

Place both speakers so that the built-in surround speaker comes outward.

Built-in surround  
sound speaker

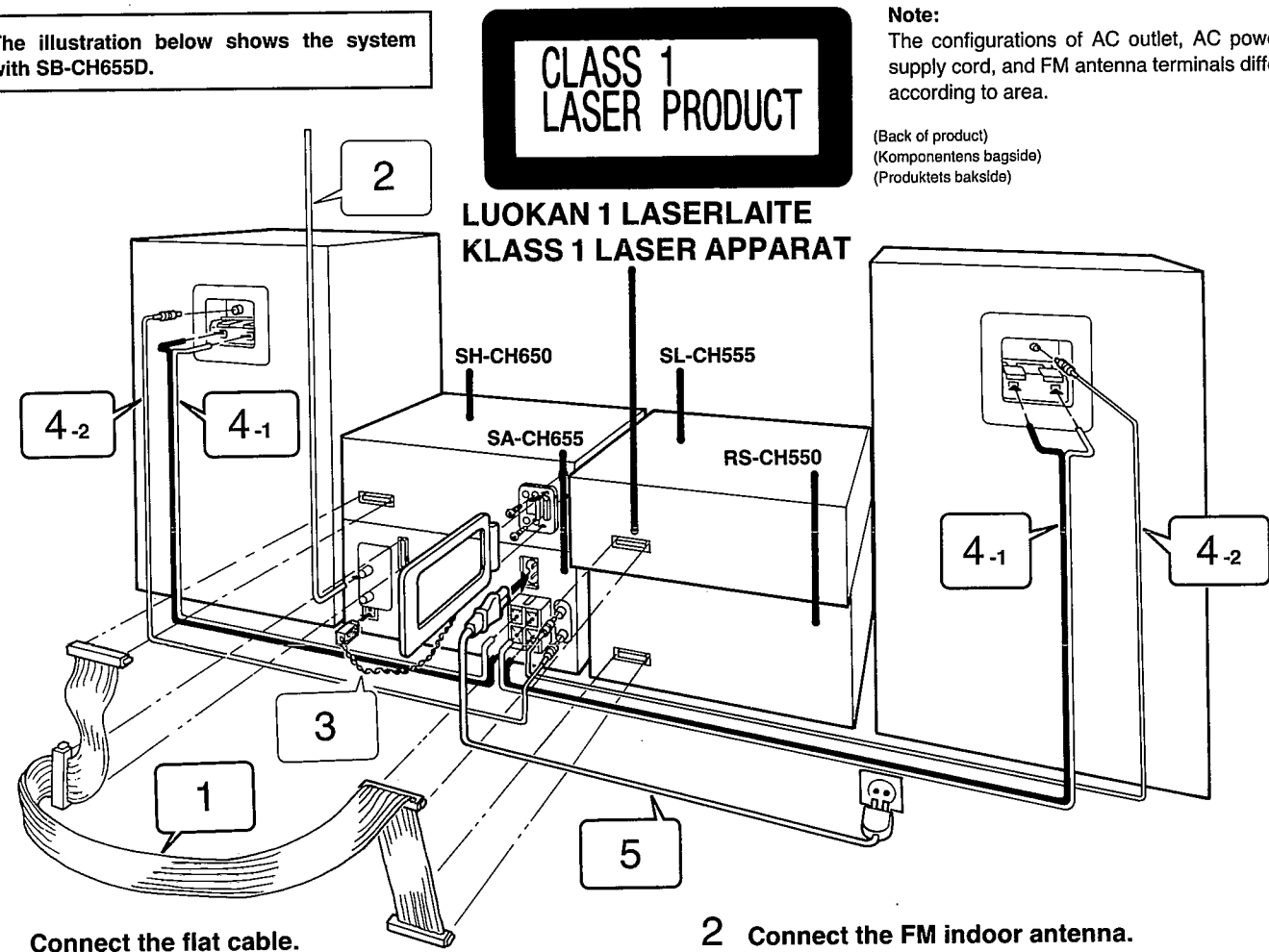
When you select the SPACE mode, you can get the surround sound effect. Install the speakers as illustrated left, and adjust the angle of the built-in surround speakers as you like.

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.

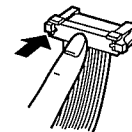
## ■ CONNECTIONS

The illustration below shows the system with SB-CH655D.

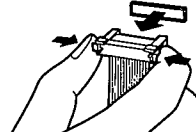


### 1 Connect the flat cable.

Connecting



Disconnecting

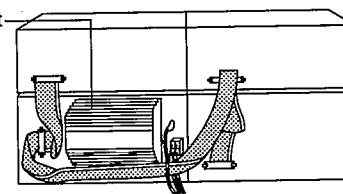


Hold the connector with the recessed part up and press in at the center until you hear a click.

First connect the blue-colored connector to the terminal of the sound processor (A), then connect the rest in the order B, C, D.

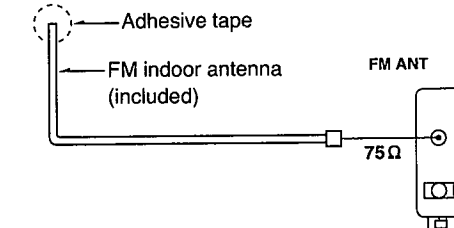
Route the cable horizontally (underneath the heat outlet grille) so that the side with the white-color lead is positioned at the front.

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

Heat outlet  
grille

### 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). Disconnect the FM indoor antenna if you install an FM outdoor antenna.

**Note:**

The configurations of AC outlet, AC power supply cord, and FM antenna terminals differ according to area.

(Back of product)  
(Komponentens baksida)  
(Produktets baksida)

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

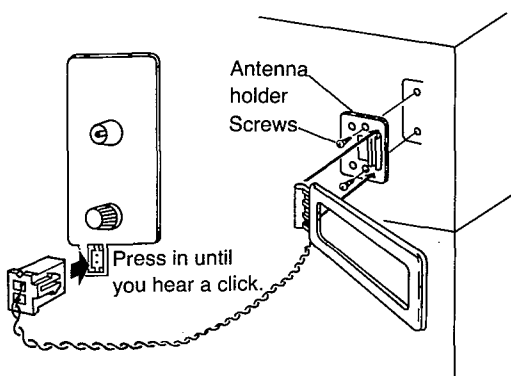
### 3 Connect the LW/MW loop antenna.

1. Attach the antenna holder with screws (included) to the rear panel of the sound processor.
2. Clamp the antenna to the antenna holder and connect the antenna terminal to the rear panel of the tuner amplifier.
3. Position the loop for the best reception.

You may attach the LW/MW antenna holder to a rack or other structure.

#### Notes:

- To minimize noise pickup, keep the LW/MW loop antenna away from the speaker cable, power cord, and metal surfaces.
- For better reception, keep the LW/MW loop antenna cord along the heat outlet grille, and away from the flat cable.



### 4-1 Connect the speaker cables.

#### Note:

Be sure to connect speaker cables before connecting the AC power supply cord.

#### Connection of speaker cables

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.)

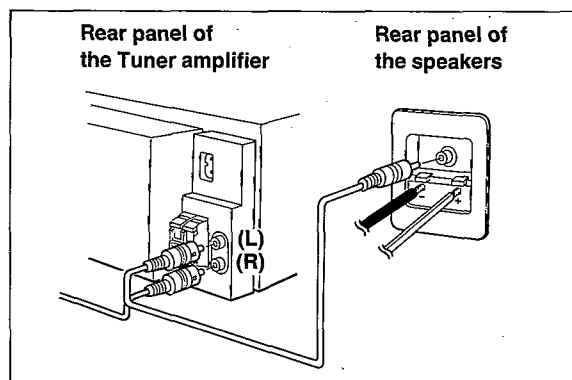
2. Insert the wire to the rear panel of the speakers, and then pull down the lever.

3. Insert the wire to the rear panel of the tuner 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.

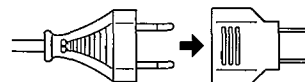
### 4-2 Connect the surround speaker cords. (Only for the system with SB-CH655D)



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

#### For areas except Europe, Australia and New Zealand

If the power plug will not fit your socket, use the power plug adaptor (included).

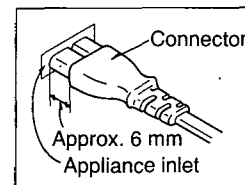


#### For areas except Australia and New Zealand

#### 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.



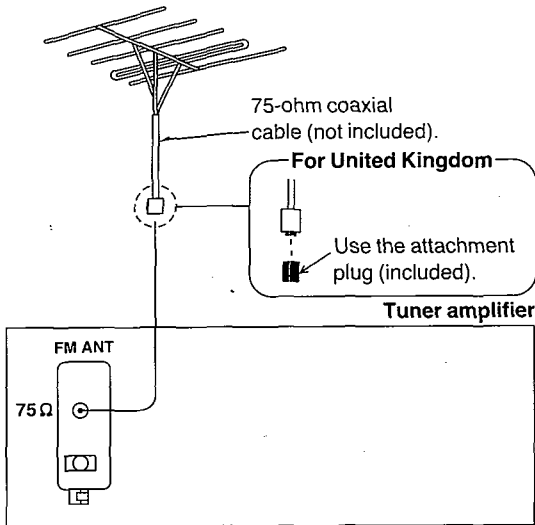
■ **Optional antenna connections**

**FM outdoor antenna (not included)**

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

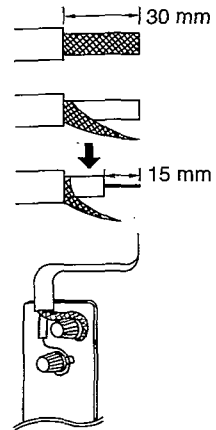
You may need an outdoor antenna if you use this system in a mountainous region or inside a reinforced-concrete building, etc. An outdoor antenna should be installed by a competent technician only.

FM outdoor antenna



**For areas except Europe (FM outdoor antenna)**

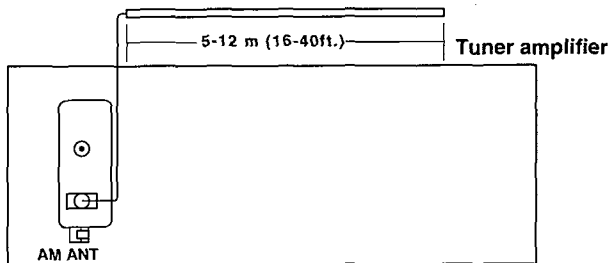
1. Remove a piece of the outer vinyl sheath from the end of the cable.
2. Bundle the shield braid, and remove a piece of the inner vinyl sheath covering the core wire.
3. Connect the core wire and the shield braid.



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

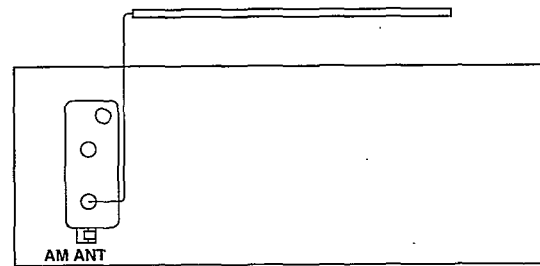
An outdoor antenna may be required in a mountainous region, or if this system is located inside a reinforced-concrete building, etc.

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



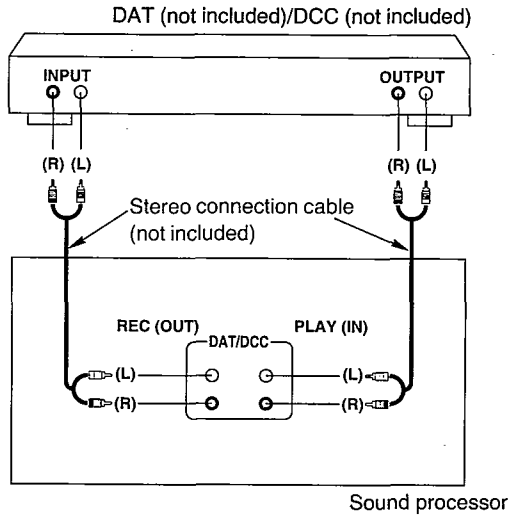
**Note:**  
Do not remove the LW/MW loop antenna.

**For areas except Europe**

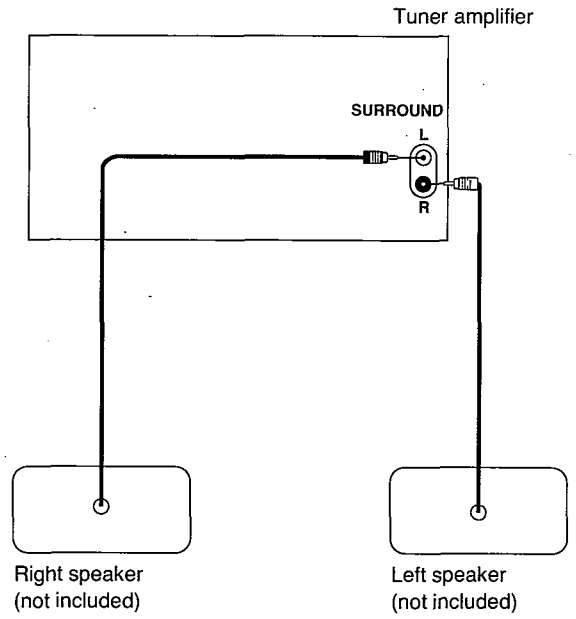


■ External unit connection

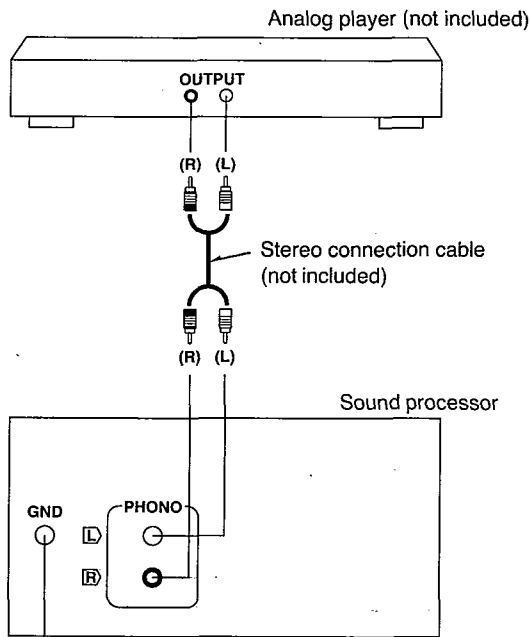
**DAT (digital audio tape deck)/  
DCC (digital compact cassette deck)**



**Rear surround speakers**



**Analog player**



"GND" terminal

This terminal is for a ground wire use.

For the set with "AUX" terminal instead of "PHONO"; Use an analog player which has built-in phono equalizer.

**Notes:**

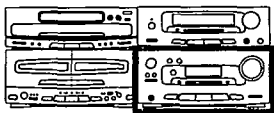
- Be sure to connect both speaker systems. If only one side is connected, no sound will be heard.
- Install each speaker left and right at the back of the listening space.

**(Only for the system with SB-CH655D):**

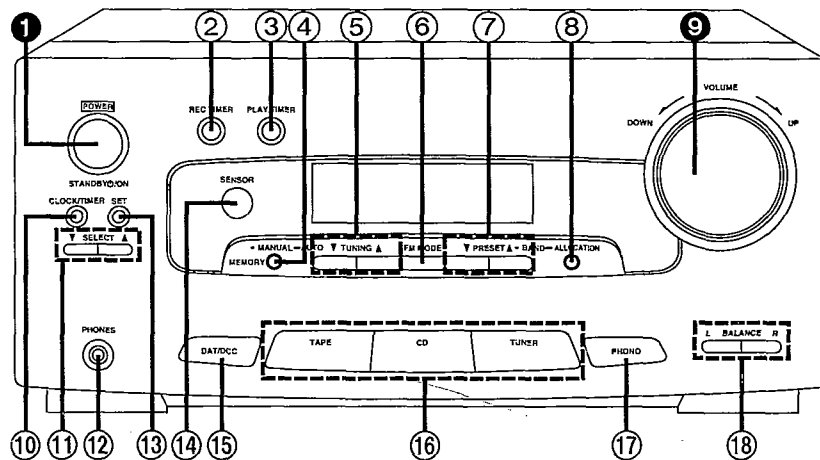
Disconnect the surround speaker cords provided for the system (see step 4-2 on page 7) when connecting the optional surround speaker system.

## ■ LOCATION OF CONTROLS

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



•According to the area, there is a set with ❶ AUX instead of ❶ PHONO.



### ❶ Power "STANDBY ON/OFF" switch (POWER, STANDBY ON/OFF)

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 Timer recording button (REC TIMER)

Press to confirm, exit or reset the record timer.

### ❸ Timer play button (PLAY TIMER)

Press to confirm, exit or reset the play timer.

### ❹ Preset memory button (MEMORY, -MANUAL, -AUTO)

Press to put a broadcast station into the memory.

### ❺ Tuning buttons (▼ TUNING ▲)

Use to tune in a desired broadcast station.

### ❻ FM mode button (FM MODE)

Press to select the FM listening mode (stereo or monaural) during FM broadcasts.

### ❼ Preset tuning buttons (▼ PRESET ▲)

Use to select channel number for a broadcast station which has been stored in the tuner's memory.

### ❽ Band select/allocation change button (-BAND -ALLOCATION)

Press to select the MW, LW or FM radio band.  
Press and hold to change the MW frequency step.

### ❾ Volume level control (VOLUME)

Turn to adjust the volume level.

Note that -- dB is the lowest volume setting and 0 dB is the highest.

### ❿ Clock/timer button (CLOCK/TIMER)

Press to select the clock set mode or desired timer mode.

### ⓫ Timer select buttons (▼ SELECT ▲)

Use when setting the current time and timer.

### ⓬ Headphones jack (PHONES) (Ø3.5, 32Ω)

Plug headphones cord into this jack.

### ⓭ Setting button (SET)

Press to set the present time in the clock mode, or set the various selection in the timer mode.

### ⓮ Remote control signal sensor (SENSOR)

Receives the signals from the remote control.

### ⓯ DAT/DCC input select button (DAT/DCC)

(Only when you connect the DAT or DCC to this system) Press to select the DAT/DCC source.

### ⓰ Input select buttons (TAPE, CD, TUNER)

Press to select the sound source.

### ⓱ PHONO input select button (PHONO)

(Only when you connect an analog player to the PHONO terminal of this unit) Press to select the PHONO source.

### ⓲ Balance adjustment buttons (L BALANCE R)

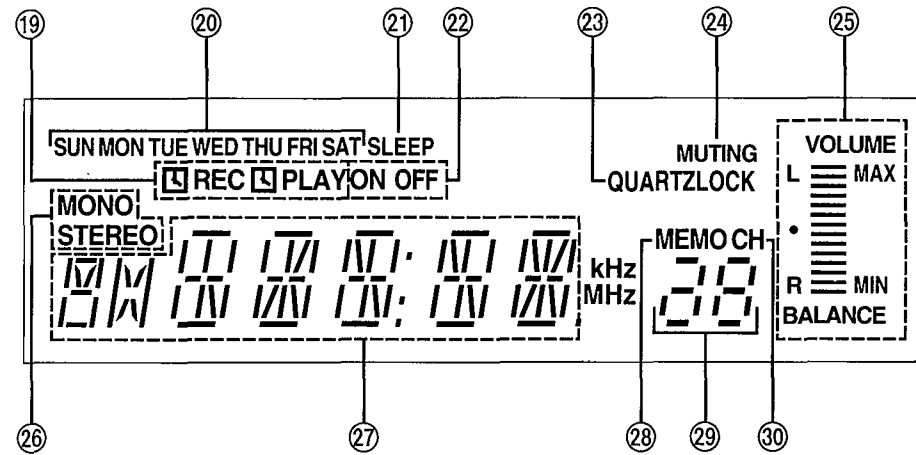
Use to adjust the volume balance between left and right speakers.



## SETTING THE TIME OF DAY

These instructions explain how to set the time for 16:25 (4:25 p.m.) on Wednesday.

### Display section



**19 Timer mode indicators (REC, PLAY)**

REC: Lights when you have set the record timer mode.  
PLAY: Lights when you have set the play timer mode.

**20 Day indicators (SUN-SAT)**

Shows the day of the week or the day the timer has been set for.

**21 Sleep timer indicator (SLEEP)**

Lights when you have set the sleep timer mode.

**22 Timer on/off indicator (ON, OFF)**

Lights together with the setting time to show the timer ON time and OFF time.

**23 Quartz lock indicator (QUARTZLOCK)**

Lights when you precisely tune in a broadcast station.

**24 Muting indicator (MUTING)**

Lights when you activate the muting mode.

**25 Volume level/balance display (VOLUME, L-R BALANCE)**

Shows the volume level and left-right balance.

**26 FM STEREO/MONO indicator (MONO, STEREO)**

"STEREO" lights when an FM stereo broadcast is being received. If you press this button to select monaural mode, "MONO" lights.

**27 Alpha-numeric display**

Shows the selected source, present time, and the contents of the timer setting, received frequencies, volume level.

**28 Memory indicator (MEMO)**

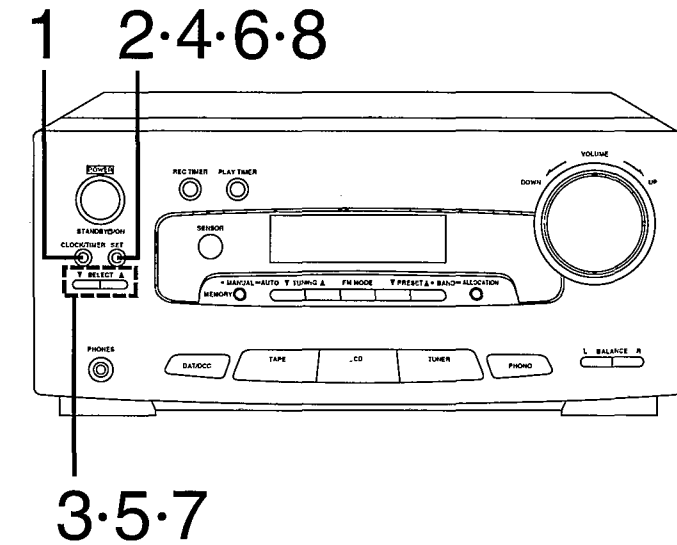
Lights when the preset memory button is pressed.

**29 Preset channel display**

Shows the preset channel you select.

**30 Channel indicator (CH)**

Lights when the unit is in the preset tuning mode.

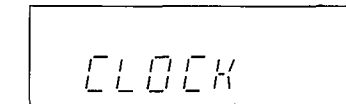


Switch on the power.

**1 Press CLOCK/TIMER to select "CLOCK".**

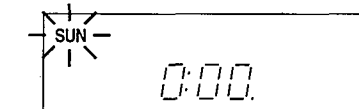
The display will show CLOCK.

The display will return to what was previously indicated if you allow 7 or more seconds to elapse before you accomplish the next operation.

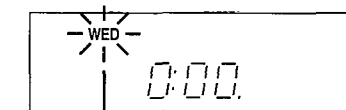


**2 Press SET.**

The day indicator will start to flash.



**3 Press one of the SELECT buttons to select "WED".**

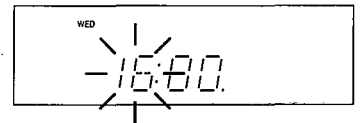


Flashing

**4 Press SET.**

**5 Press one of the SELECT buttons to select "16".**

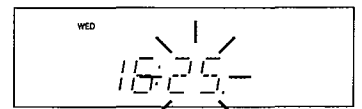
Going from 23:59 to 0:00 on the hour display will not change the day display.



**6 Press SET.**

**7 Press one of the SELECT buttons to select "25".**

Going from 59 to 00 on the minute display will not change the hour display.



Flashing

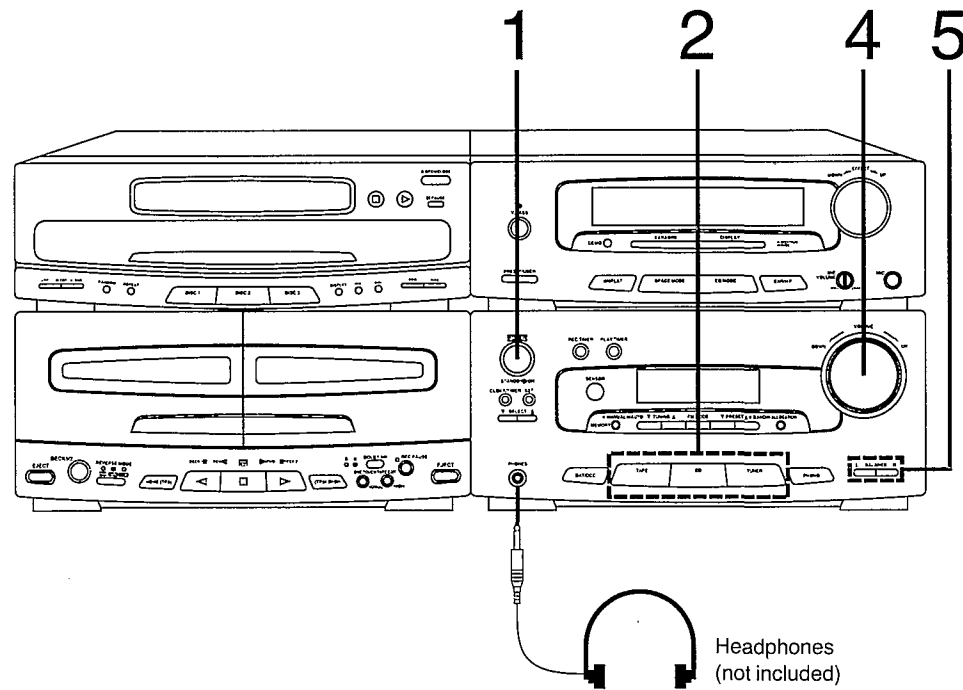
**8 Press SET to finish setting the time.**

After about 2 seconds, the display will return to what it were before entering the clock setting mode.

To display the clock again, press CLOCK/TIMER. The display will show "CLOCK", and then clock will appear for 5 seconds.

"E" appears on the display if the power cord has been once disconnected or there has been a power failure. If this happens, reset the time.

## ■ BASIC OPERATING PROCEDURE



**1 Press POWER STANDBY  $\text{\textcircled{P}}$ /ON to switch on the power.**

**2 Select the sound source by pressing TAPE, CD, or TUNER.**

The display of the selected source will appear. If you press a different sound source while listening to a compact disc or tape, the disc or tape automatically stops playing.

**3 Start the sound source.**

**4 Adjust the volume level.**

**5 Adjust the left-right volume balance.**

Pressing BALANCE buttons simultaneously will restore the balance to the center position.

Perform fine balance adjustment while playing the selected music source. The balance display is only a rough quick.

### Note:

Before you set the system to the standby mode, be sure to reduce the volume level to prevent the extremely high output from the tuner amplifier from damaging the speakers.

### How to mute the volume

(Only from the remote control)

Press MUTING on the remote control.



MUTING indicator appears on the display.

Cancel the muted state by pressing the muting button once again or reduce the volume level to the minimum position and then reset to the desired volume.

### How to use headphones

Reduce the volume level.

Connect the headphones to the headphones jack.

Avoid listening for prolonged periods of time to prevent hearing damage.

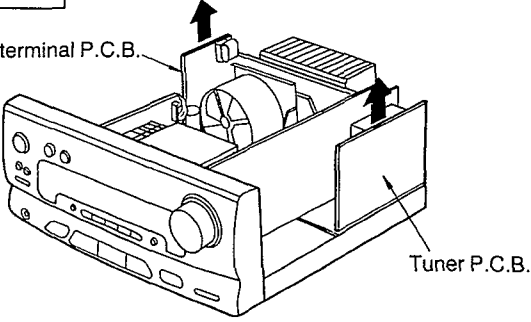
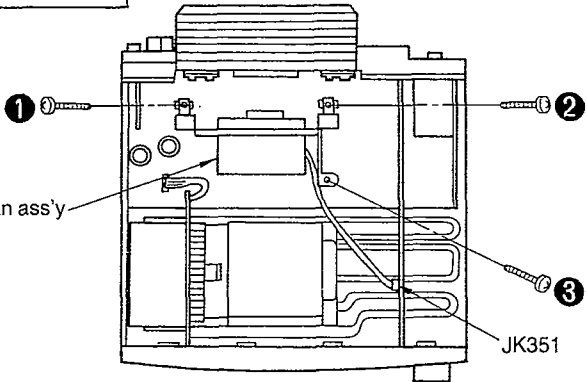
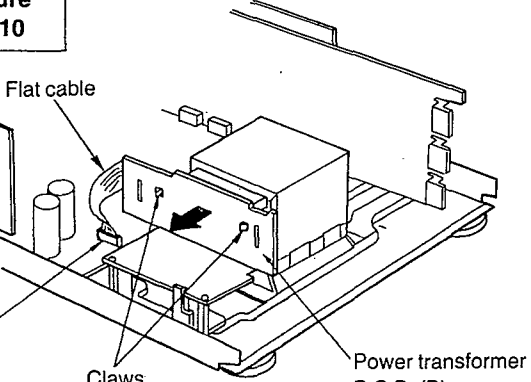
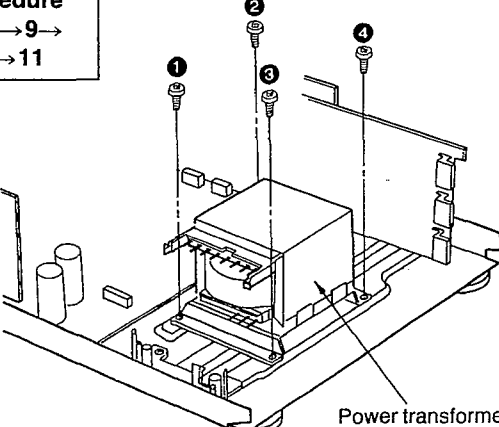
Plug type: Stereo mini

## ■ DISASSEMBLY INSTRUCTIONS

### "ATTENTION SERVICER"

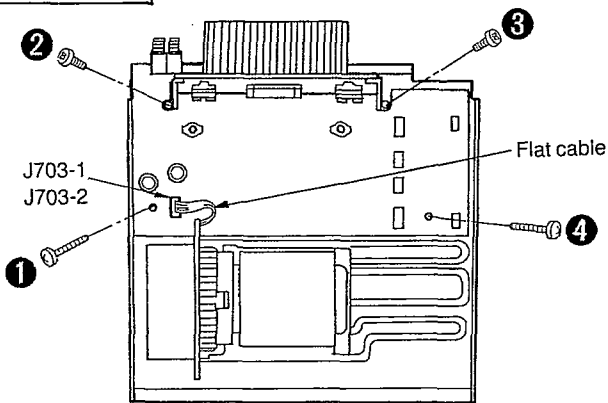
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the Cabinet	Ref. No. 2	Removal of the Front Panel Ass'y
Procedure 1	<p>1. Remove the 5 screws (1~5). 2. Remove the cabinet in the direction of arrow.</p>	Procedure 1→2	<p>1. Remove the 2 screws (1, 2). 2. Remove the front panel ass'y in the direction of arrow.</p>
Ref. No. 3	Removal of the FL P.C.B.	Ref. No. 4	Removal of the Headphones Jack P.C.B.
Procedure 1→2→3	<p>1. Pull out the volume knob. 2. Remove the nut. 3. Remove the 7 screws (1~7). 4. Release the 2 claws.</p>	Procedure 1→2→3→4	<p>•Remove the headphones jack P.C.B. in the direction of arrow.</p>
Ref. No. 5	Removal of the Rear Grill Ass'y	<p>2. Remove the 2 ribs. 3. Remove the rear grill ass'y in the direction of arrow.</p>	
Procedure 1→5	<p>1. Remove the 9 screws (1~9).</p>	<p>2. Remove the 2 ribs. 3. Remove the rear grill ass'y in the direction of arrow.</p>	

<p>Ref. No. 6</p>	<p>Removal of the AC Input Terminal P.C.B. and Tuner P.C.B.</p>	<p>Ref. No. 7</p>	<p>Removal of the Input-output Terminal P.C.B.</p>
<p>Procedure 1→5→6</p>	 <p>AC input terminal P.C.B.</p> <p>Tuner P.C.B.</p> <p>■ <b>Removal of the AC Input Terminal P.C.B.</b> ● Remove the AC input terminal P.C.B. in the direction of arrow.</p> <p>■ <b>Removal of the tuner P.C.B.</b> ● Remove the tuner P.C.B. in the direction of arrow.</p>		<p>Procedure 1→2→5→7</p>
<p>Ref. No. 8</p>		<p>Ref. No. 9</p>	
<p>Procedure 1→8</p>	 <p>Fan ass'y</p> <p>JK351</p> <p>1. Remove the 1 connector (JK351). 2. Remove the 3 screws (1~3).</p>		<p>Procedure 1→2→9</p>
<p>Ref. No. 10</p>		<p>Ref. No. 11</p>	
<p>Procedure 1→2→10</p>	 <p>Flat cable</p> <p>J703-1 J703-2</p> <p>Claws</p> <p>Power transformer P.C.B. (B)</p> <p>1. Remove the 1 flat cable (J703-1, J703-2). 2. Release the 2 screws. 3. Remove the power transformer P.C.B. (B) in the direction of arrow.</p>		<p>Procedure 1→2→9→ 10→11</p>
<p>Ref. No. 11</p>		 <p>Power transformer</p> <p>● Remove the 4 screws (1~4).</p>	

**Ref. No. 12**  
**Removal of the Main P.C.B.**

**Procedure**  
 1→2→5→  
 6→7→8→12



1. Remove the 4 screws (1~4).
2. Remove the 1 flat cable (J703-1, J703-2).

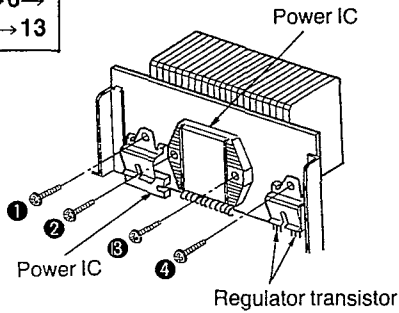
**NOTE**  
 • Insert the projection on the angle into the hole of the bottom board ass'y and then install the Main P.C.B.

**[Bottom view]**

3. Remove the rib.
4. Remove the main P.C.B. in the direction of arrow.

**Ref. No. 13**  
**Removal of the Power IC and Regulator Transistor**

**Procedure**  
 1→2→5→6→  
 7→8→12→13

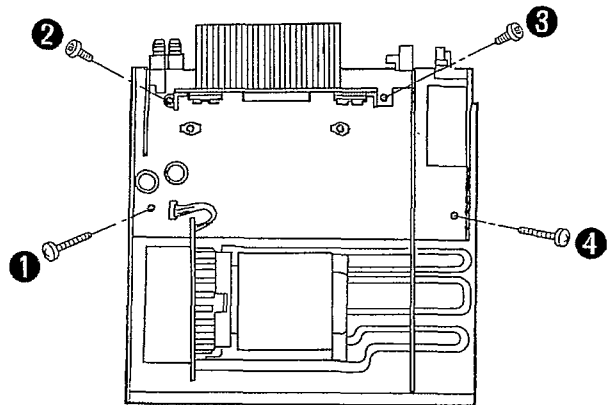


1. Unsolder the power IC or regulator transistors.
  2. Remove the 4 screws (1~4).
- When mounting the power IC or regulator transistor, apply silicone compound (RFKX0002) to the rear side of power IC or regulator transistors.

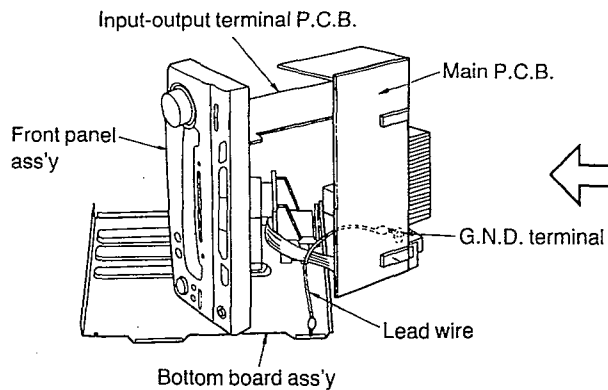
**Ref. No. 14**  
**How to check the Main P.C.B.**

**Procedure**  
 1→2→5→  
 8→14

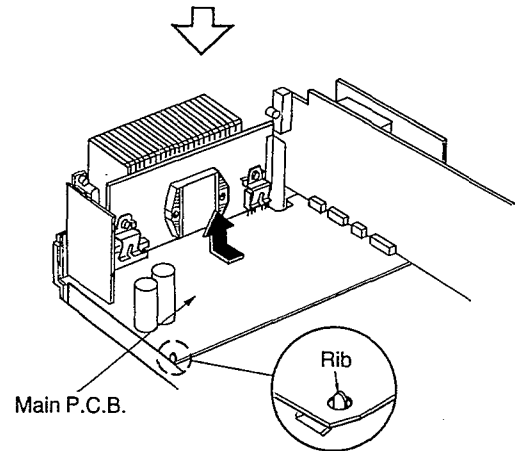
• When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.



1. Remove the 4 screws (1~4).

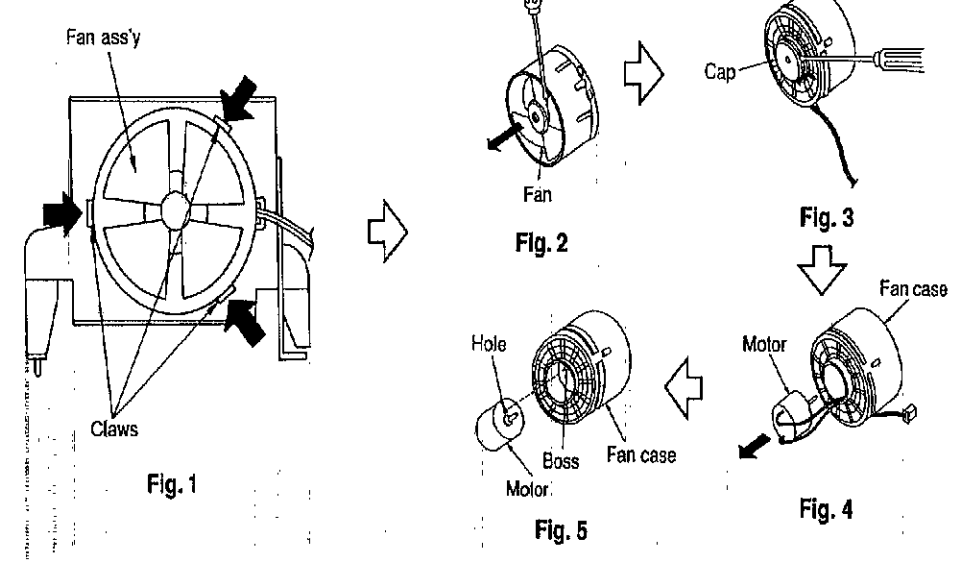


4. Connect the G.N.D. terminal to the bottom board ass'y by the lead wire.
5. Reinstall the front panel ass'y to the input-output terminal P.C.B.



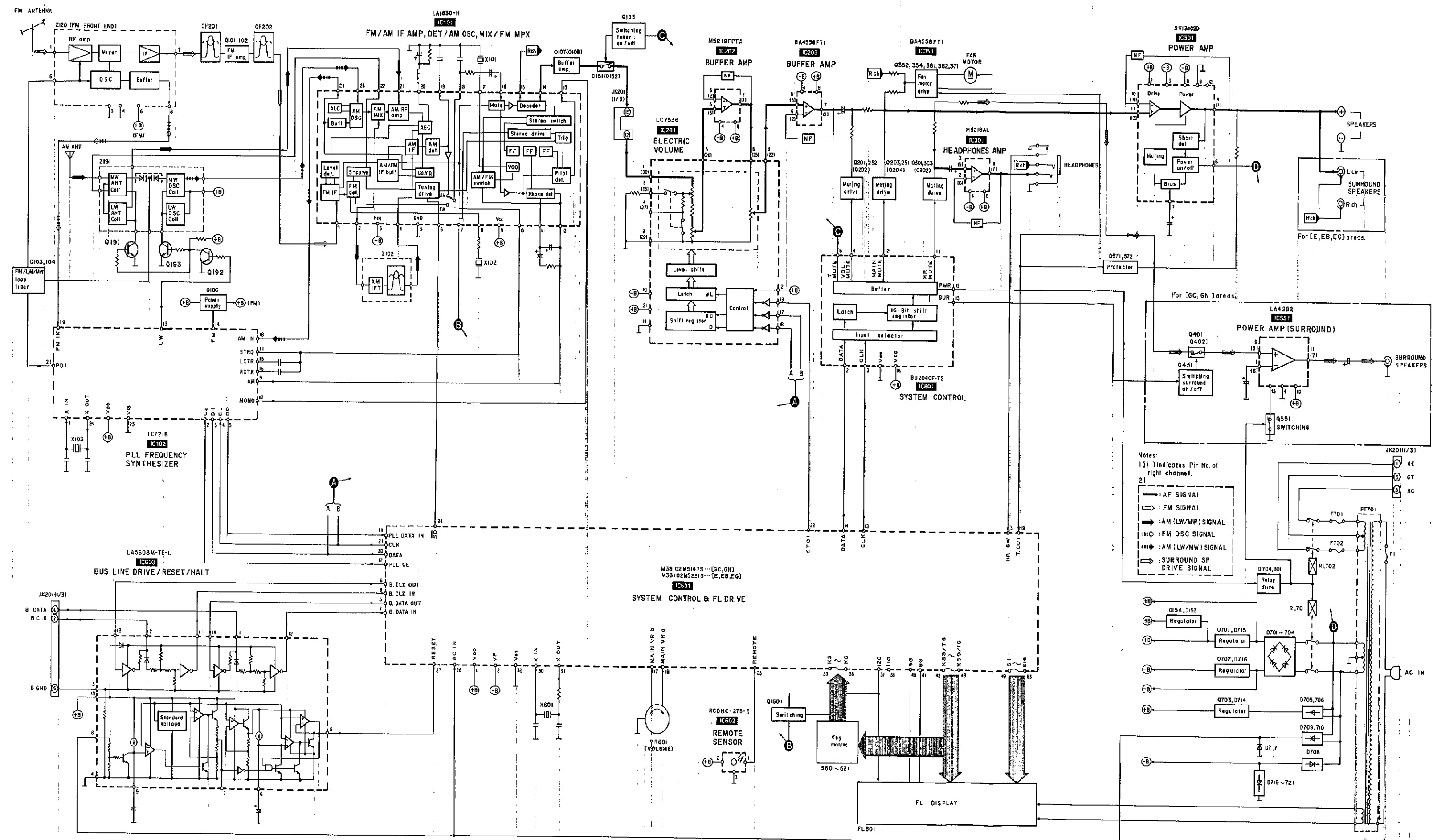
2. Remove the rib.
3. Remove the main P.C.B. in the direction of arrow.

Ref. No. 15	Removal of the Fan Ass'y
Procedure 1-8-15	



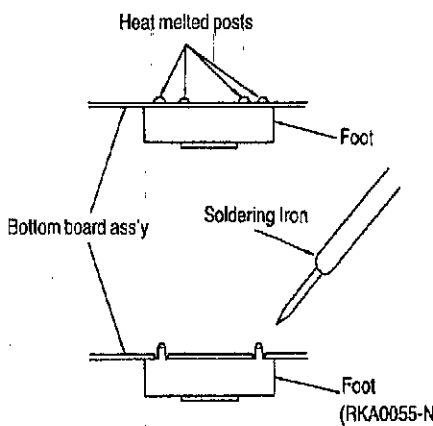
1. Release the 3 claws (shown in Fig. 1).
2. Insert a screwdriver at the root of the fan (shown in Fig. 2).
3. Remove the cap (shown in Fig. 3).
4. Remove the motor from the fan case (shown in Fig. 4).
5. When mounting the motor, align the fan case projection with the hole of the motor (shown in Fig. 5).

■ BLOCK DIAGRAM



● Replacement of the Foot.

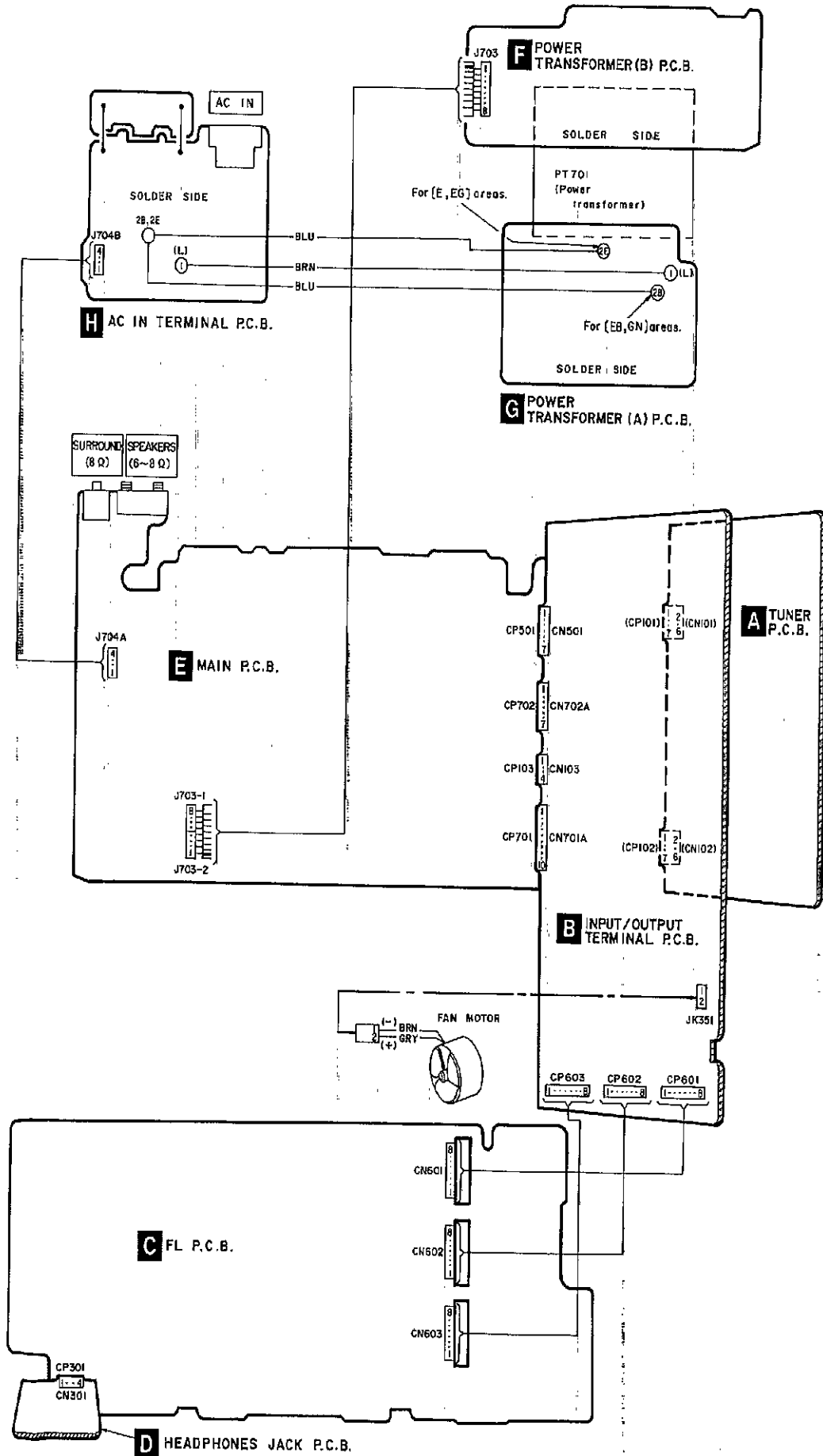
1. Remove the 4 heat melted posts on the bottom board ass'y with a pair of nippers or similar tool.
2. To replace the foot (RKA0055-N) on the bottom board ass'y, melt the 4 posts with a soldering iron.



■ WIRING CONNECTION DIAGRAM

SA-CH655

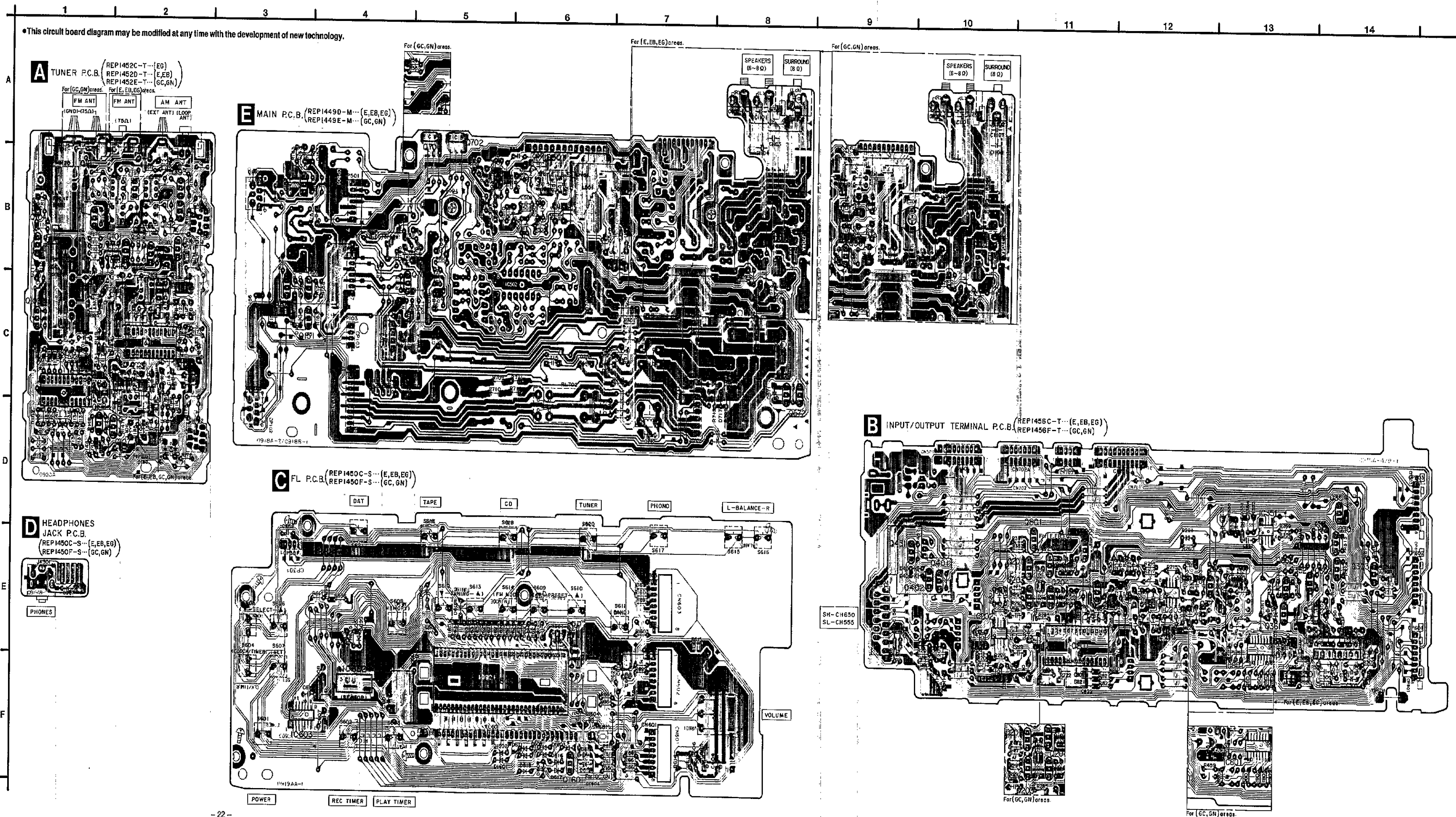
SA-CH655



■ PRINTED CIRCUIT BOARD DIAGRAM

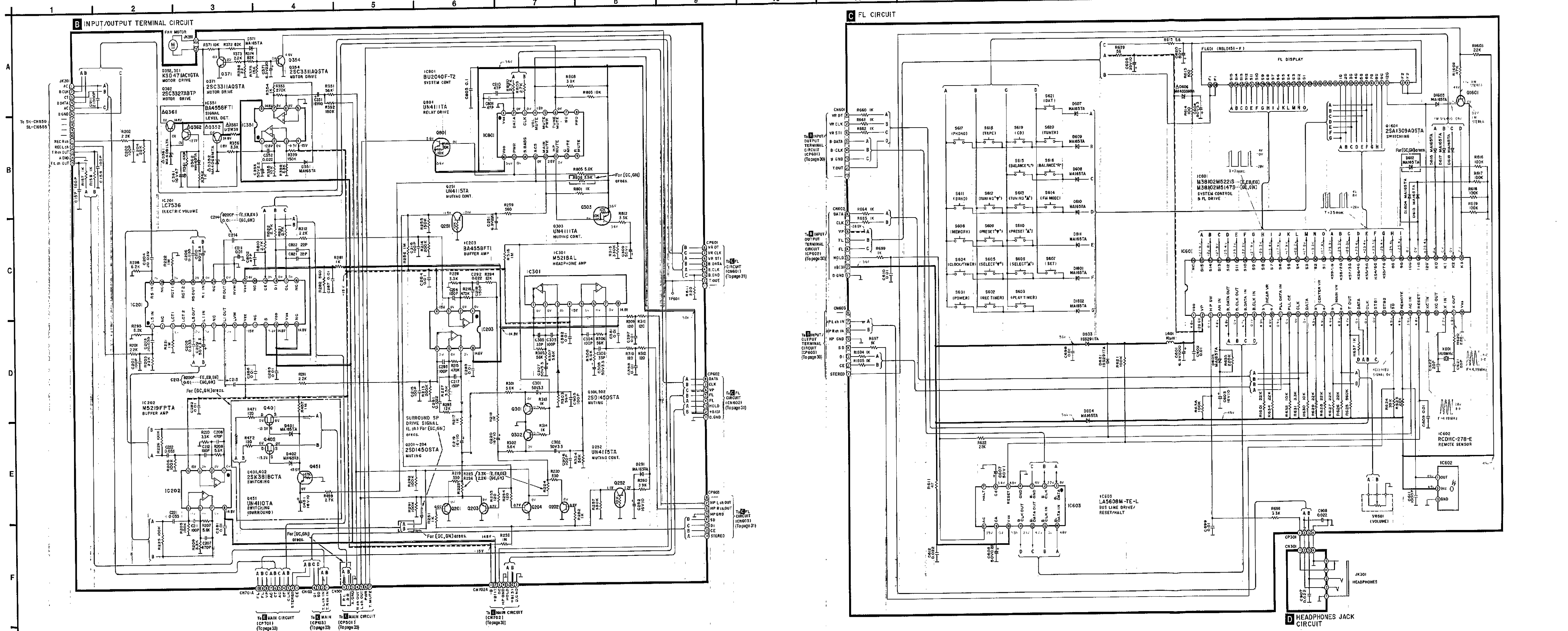
SA-CH655

SA-CH655



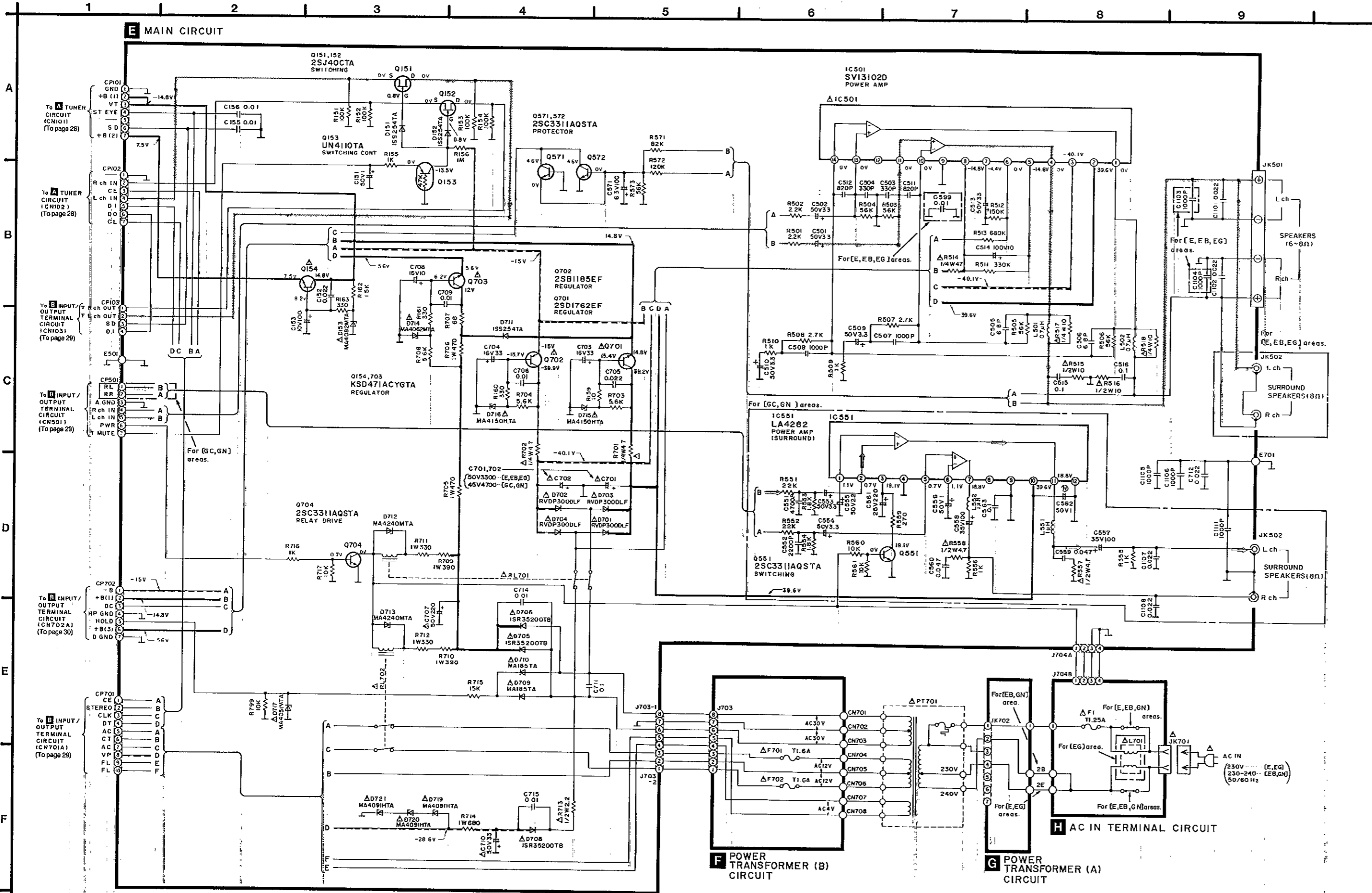


SCHEMATIC DIAGRAM • INPUT/OUTPUT TERMINAL CIRCUIT and FL/HEADPHONES JACK CIRCUIT (Parts list on pages 37-41.)





**SCHEMATIC DIAGRAM • MAIN/POWER TRANSFORMER (A)/(B)/AC IN TERMINAL CIRCUIT** (Parts list on pages 37-41.)

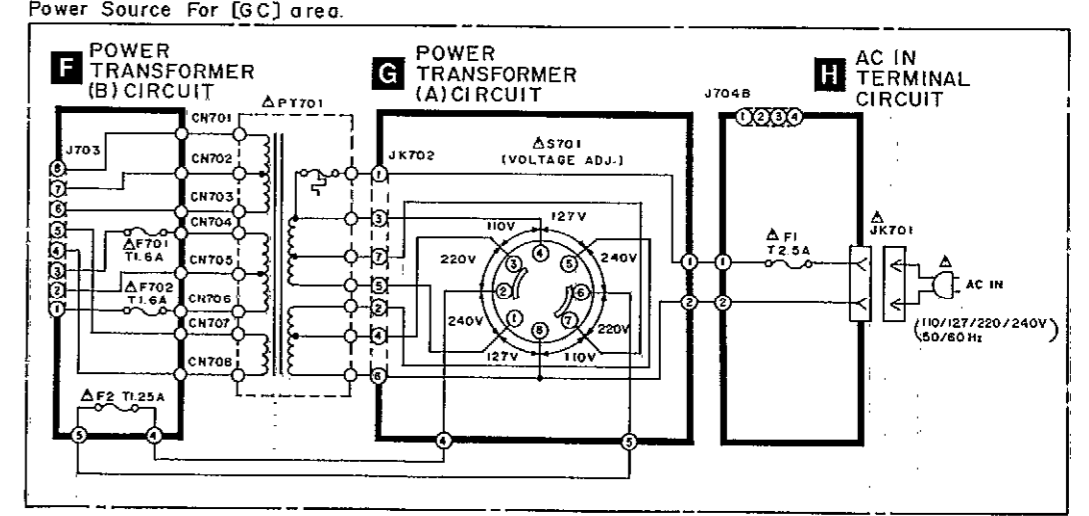


- Notes:**
- S601 : Power "STANDBY  $\phi$ /ON" switch (POWER/STANDBY  $\phi$ /ON)
  - S602 : Timer recording switch (REC TIMER)
  - S603 : Timer play switch (PLAY TIMER)
  - S604 : Clock/timer switch (CLOCK/TIMER)
  - S605 : Timer select switch ( $\nabla$ )
  - S606 : Timer select switch ( $\blacktriangle$ )
  - S607 : Setting switch (SET)
  - S608 : Preset memory switch (MEMORY, -MANUAL, -AUTO)
  - S609 : Preset tuning switch ( $\nabla$ )
  - S610 : Preset tuning switch ( $\blacktriangle$ )
  - S611 : Band select/allocation charge switch (-BAND -ALLOCATION)
  - S612 : Tuning switch ( $\nabla$ )
  - S613 : Tuning switch ( $\blacktriangle$ )
  - S614 : FM mode switch (FM MODE)
  - S615 : Balance adjustment switch (BALANCE L)
  - S616 : Balance adjustment switch (BALANCE R)
  - S617 : Input select switch (PHONO)
  - S618 : Input select switch (TAPE)
  - S619 : Input select switch (CD)
  - S620 : Input select switch (TUNER)
  - S621 : Input select switch (DAT/DCC)
  - S701 : Voltage selector switch in "220 V" position (110 V/127 V/220 V/240 V) for (GC) area only
- 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: FM mode ( ) : MW mode ( < ) : LW mode ( > )
- 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.
- 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.
- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Parts No.	Supply Parts No.
IC202	M5219FPTA	M5219FP
IC203	BA4558FT1	SVIBA4558F
IC301	M5218AL	M5218L
IC602	RCDHC-278-E	RCDHC-278

: Positive voltage line  
 : Negative voltage line  
 : AF signal line  
 : AM (LW/MW) signal line  
 : Surround SP drive signal line

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



## FUNCTION OF IC TERMINALS

●IC601 For (E, EB, EG)...(M38102M5221S), For (GC, GN)...(M38102M5147S)

Pin No.	Terminal Name	I/O	Function	Pin No.	Terminal Name	I/O	Function
1	V <sub>cc</sub>	—	Power supply (+5 V)	22	STB1	O	Strobing for LC7536 (switched)
2	VP	—	Pull-down voltage (-29 V)	23	STB2	—	No use
3	HP. SW	I	Headphones switch input	24	SD	I	Received signal input
4	AN IN	I	CR timer during backup	25	REMOTE	I	Remote control input
5	B.DATA OUT	O	Bus data output	26	AC IN	I	Power down input
6	B.CLK OUT	O	Bus clock output	27	RESET	I	Reset input
7	B.DATA IN	I	Bus data input	28	XC IN	—	No use
8	B.CLK IN	I	Bus clock input	29	XC OUT	—	
9	REAR VR. b	I	No use	30	X IN	I	4.19 MHz oscillator
10	REAR VR. a	I	No use	31	X OUT	O	
11	PLL DATA IN	I	Serial data input from LC7218 (PLL)	32	V <sub>ss</sub>	—	GND
12	PLL CE	O	Serial chip enable output for LC7218 (PLL)	33	K3	I	Operation switch input
13	CLK	O	Clock for BU2040	36	K0	I	
14	DATA	O	Data for BU2040	37	12G	O	Grid output
15	CENTER VR. b	I	No use	38	11G	O	Digit 11 (No use) & RESET
16	CENTER VR. a	I	No use	39	10G	O	Digit 10 (No use) & RESET
17	MAIN VR. b	I	Rotary encoder input (for Main Volume)	40	9G	O	Grid output
18	MAIN VR. a	I	Rotary encoder input (for Main Volume)	41	8G	O	
19	T OUT	I/O	I: Starting clock adjustment O: 131.072 kHz (POWER OFF) Malfunction detection (POWER ON)	42	KS3/7G	O	Grid output/Operation switch output
20	DATA	O	Data output for LC7536 (E. Volume) & LC7218 (PLL)	48	KS9/1G	O	
21	CLK	O	Clock output for LC7536 & LC7218 (PLL)	49	S1	O	Segment output
				63	S15	O	
				64	NC	—	No use

## 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
		INTEGRATED CIRCUIT(S)					
IC101	LA1830-H	IC, FM/AM IF AMP./AM OSC					
IC102	LC7218	IC, PLL FREQ. SYNTHESIZER		D101	MA4051MTA	DIODE	Δ
IC201	LC7536	IC, ELECTRIC VOLUME		D102	MA165	DIODE	
IC202	MS219FP	IC, BUFFER AMP.		D151, 152	1SS254TA	DIODE	
IC203	SV1BA4558F	IC, BUFFER AMP.		D153	MA4082MTA	DIODE	Δ
IC301	MS218L	IC, HEADPHONES AMP.		D291	MA165	DIODE	
IC351	SV1BA4558F	IC, SIGNAL LEVEL DET.		D351	MA165	DIODE	
IC501	SV13102D	IC, POWER AMP.	Δ	D352	MA4068M	DIODE	Δ
IC551	LA4282	IC, POWER AMP. (SURROUND)	(GC, GN)	D361	MA4091LTA	DIODE	Δ
IC601	M38102M5221S	IC, FL. DRIVE/SYSTEM CONT.	(E, EB, EG)	D362	MA165	DIODE	
IC601	M38102M5147S	IC, FL. DRIVE/SYSTEM CONT.	(GC, GN)	D371	MA165	DIODE	
IC602	RCDH-278	IC, REMOTE SENSOR		D401, 402	MA165	DIODE	(GC, GN)
IC603	LA5608M-TE-L	IC, BUS LINE/HALT/RESET		D603	1SS291TA	DIODE	
IC801	BU2040F-T2	IC, SYSTEM CONTROL		D604, 605	MA165	DIODE	
		TRANSISTOR(S)		D606	MA4039MTA	DIODE	Δ
Q101, 102	2SC2787L	TRANSISTOR		D607-611	MA165	DIODE	
Q103, 104	2SC2785FE	TRANSISTOR		D612	MA165	DIODE	(GC, GN)
Q106	UN411TA	TRANSISTOR		D613	MA165	DIODE	
Q107, 108	2SC3311A-Q	TRANSISTOR		D616-618	MA165	DIODE	
Q151, 152	2SJ40CTA	TRANSISTOR		D621	1SS291TA	DIODE	
Q153	UN4110TA	TRANSISTOR		D701-704	P300DLF	DIODE	Δ
Q154	KSD471ACYGTA	TRANSISTOR	Δ	D705, 706	1SR35200TB	DIODE	Δ
Q191-193	2SC3311A-Q	TRANSISTOR		D708	1SR35200TB	DIODE	Δ
Q201-204	2SD1450RTA	TRANSISTOR		D709, 710	MA185TA	DIODE	Δ
Q251, 252	UN4115	TRANSISTOR		D711	1SS254TA	DIODE	
Q301, 302	2SD1450RTA	TRANSISTOR		D712, 713	MA4240H	DIODE	
Q303	UN4111	TRANSISTOR		D714	MA4062MTA	DIODE	Δ
Q352	KSD471ACYGTA	TRANSISTOR	Δ	D715, 716	MA4150M	DIODE	Δ
Q354	2SC3311A-Q	TRANSISTOR		D717	MA4051MTA	DIODE	Δ
Q361	KSD471ACYGTA	TRANSISTOR	Δ	D719-721	MA4091HTA	DIODE	Δ
Q362	2SC3327-A	TRANSISTOR	Δ	D1601-1604	MA165	DIODE	
Q371	2SC3311A-Q	TRANSISTOR				VARIABLE RESISTOR(S)	
Q401, 402	2SK381BCDTA	TRANSISTOR	(GC, GN)	VR601	EVQWVF2024B	V. R. MAIN VOLUME CONTROL	
Q451	UN4110TA	TRANSISTOR	(GC, GN)			COMPONENT COMBINATION(S)	
Q551	2SC3311A-Q	TRANSISTOR	(GC, GN)	Z102	RL122006M-T	COMPONENT COMBINATION	
Q571, 572	2SC3311A-Q	TRANSISTOR		Z120	RAL0006	TUNER PACK (FM FRONT END)	(E, EB, GC, GN)
Q701	2SD1782EF	TRANSISTOR	Δ	Z120	RAL0019	TUNER PACK (FM FRONT END)	(EG)
Q702	2SB1185EF	TRANSISTOR	Δ	Z191	RLA62005M-T	COMPONENT COMBINATION	
Q703	KSD471ACYGTA	TRANSISTOR	Δ				
Q704	2SC3311A-Q	TRANSISTOR					
Q801	UN4111	TRANSISTOR					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		COIL(S)		S615	EVQ21405R	SW, BALANCE (L)	
				S616	EVQ21405R	SW, BALANCE (R)	
L101	ELESN1R0MA	COIL		S617	EVQ21405R	SW, PHONO	
L103	ELEXT47KA9	COIL		S618	EVQ21405R	SW, TAPE	
L104	ELEXT100KA9	COIL		S619	EVQ21405R	SW, CD	
L105, 106	RLQZB822KT-D	COIL		S620	EVQ21405R	SW, TUNER	
L151	SLM1B1CM-1M	COIL	(EG)	S621	EVQ21405R	SW, DAT	
L191	ELESN1R0MA	COIL		S701	ESE37263	SW, VOLTAGE SELECTOR	(GC) Δ
L501, 502	SLQY07G-40	COIL				CONNECTOR(S)	
L551, 552	ELEVIROKA	COIL	(GC, GN)				
L601	ELEXT100KA9	COIL		J703-1, 2	RJS1A6604	SOCKET (4P)	
L701	RLQZ271M	COIL	(EG) Δ	J703	RWJ1808110XX	FLAT CABLE (8P)	
		FILTER(S)		J704A	RJT057W004-1	CONNECTOR (4P)	
				J704B	RJU057W004	SOCKET (4P)	
CF201, 202	RLFFETWDD01M	CERAMIC FILTER	(E, EB, GC, GN)	CK101, 102	RJU063W07T	SOCKET (7P)	
CF201, 202	RLFFETWDD01L	CERAMIC FILTER	(EG)	CK103	RJU057W004	SOCKET (4P)	
		OSCILLATOR(S)		CK301	RJU057W004	SOCKET (4P)	
				CK501	RJU057W007	SOCKET (7P)	
X101	RSXZ456R07M	OSCILLATOR (456kHz)		CK601-603	RJT003R008-1	CONNECTOR (8P)	
X102	RLPDT03M	OSCILLATOR (10.7MHz)		CK701	RJS1A1101TI	SOCKET (1P)	
X103	SVQ49U722-S	OSCILLATOR (7.2MHz)		CK701A	RJU057W010	SOCKET (10P)	
X601	RSXA4M19S02T	OSCILLATOR (4.19MHz)		CK702	RJS1A1101TI	SOCKET (1P)	
		DISPLAY TUBE		CK702A	RJU057W007	SOCKET (7P)	
				CK703-708	RJS1A1101TI	SOCKET (1P)	
				CP101, 102	RJT063W07T	CONNECTOR (7P)	
				CP103	RJT057W004-1	CONNECTOR (4P)	
FL601	HSLO151-F	DISPLAY TUBE		CP301	RJT057W004-1	CONNECTOR (4P)	
		FUSE (S)		CP501	RJT057W007-1	CONNECTOR (7P)	
F1	XBA2C12TB0S	FUSE, 250V T1.25A	(E, EB, EG, GN) Δ	CP601-603	RJU003R008M1	SOCKET (8P)	
F1	XBA2C25TB0	FUSE, 250V T2.5A	(GC) Δ	CP701	RJT057W010-1	CONNECTOR (10P)	
F2	XBA2C12TB0	FUSE, 250V T1.25A	(GC) Δ	CP702	RJT057W007-1	CONNECTOR (7P)	
F701, 702	XBA2C16TB0	FUSE, 250V T1.6A	Δ			EARTH TERMINAL(S)	
		SWITCH(S)					
				S601	EVQ21405R	SW, POWER	
				S602	EVQ21405R	SW, REC. TIMER	
				S603	EVQ21405R	SW, PLAY TIMER	
				S604	EVQ21405R	SW, CLOCK/TIMER	
				S605	EVQ21405R	SW, SELECT (DOWN)	
				S606	EVQ21405R	SW, SELECT (UP)	
				S607	EVQ21405R	SW, SET	
				S608	EVQ21405R	SW, MEMORY	
				S609	EVQ21405R	SW, PRESET (DOWN)	
				S610	EVQ21405R	SW, PRESET (UP)	
				S611	EVQ21405R	SW, BAND	
				S612	EVQ21405R	SW, TUNING (DOWN)	
				S613	EVQ21405R	SW, TUNING (UP)	
				S614	EVQ21405R	SW, FM MODE	
				JK101	RJH4202M	ANTENNA TERMINAL	(E, EB, EG)
				JK101	RJH4405-1M	ANTENNA TERMINAL	(GC, GN)
				JK201	RJT065K15	CONNECTOR (15P)	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
JK301	RJD7S2YA-C	HEADPHONES JACK					
JK351	SJT3213	CONNECTOR (2P)				TRANSFORMER(S)	
JK501	RJR0054M	SPEAKER TERMINALS					
JK502	SJF3068-6N	SURROUND SP. TERMINALS	(E, EB, EG)	PT701	RTP1N5B015	POWER TRANSFORMER	(E, EB, EG, GN) Δ
JK502	SJF3068N	SURROUND SP. TERMINALS	(GC, GN)	PT701	RTP1N5G004	POWER TRANSFORMER	(GC) Δ
JK701	SJS9236	AC INLET	(E, EB, EG, GC) Δ				
JK701	SJSD16	AC INLET	(GN) Δ				
JK702	SJS702-1	CONNECTOR (7P)					

Notes : \* Capacity values are in microfarads (uF) 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)

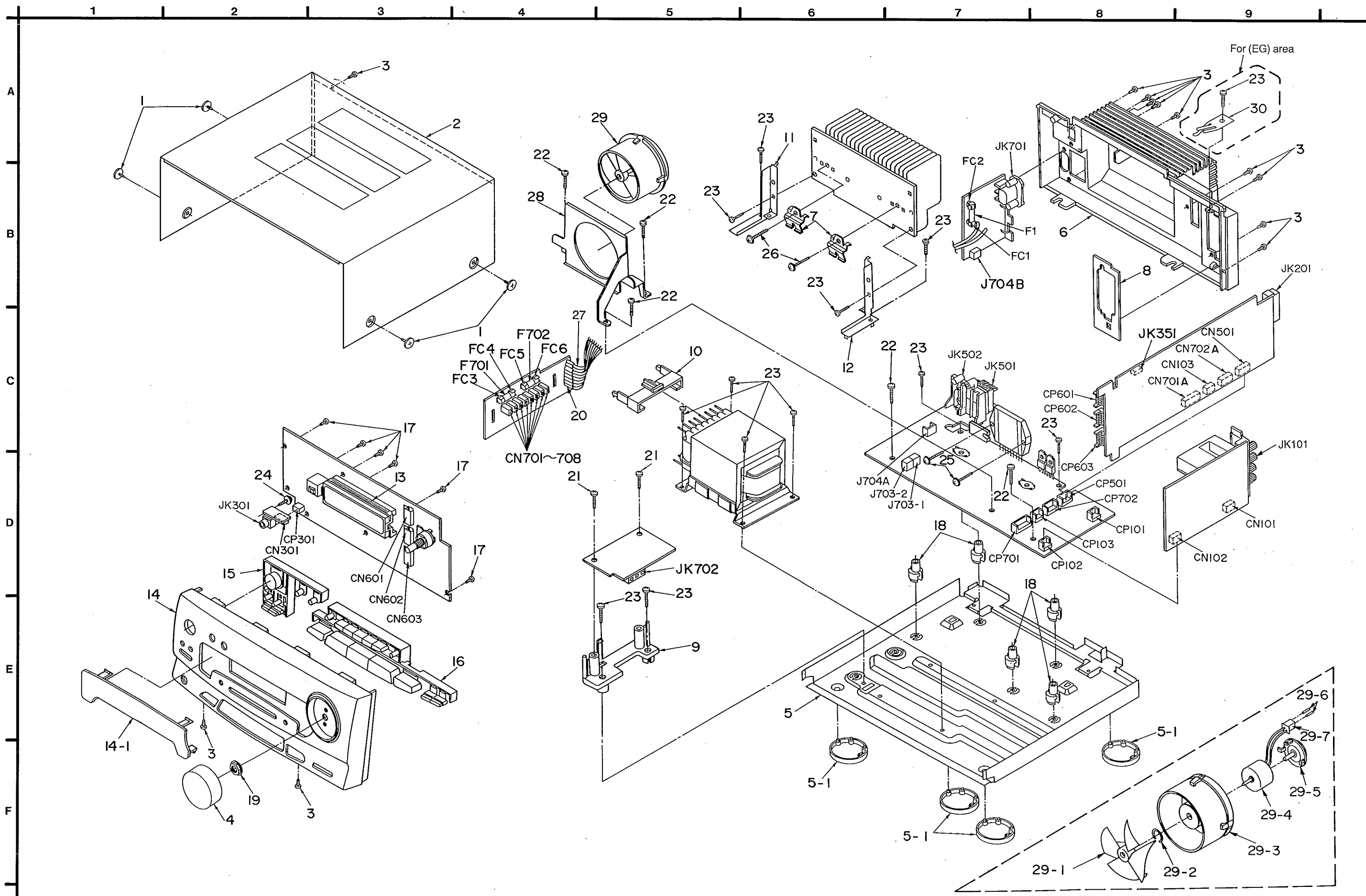
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
			R139, 140	ERDS2TJ272T	1/4W 2.7K	R219, 220	ERDS2TJ331	1/4W 330
		RESISTORS	R141, 142	ERDS2TJ103	1/4W 10K	R221, 222	ERDS2TJ105T	1/4W 1M
			R143, 144	ERDS2TJ222	1/4W 2.2K	R223, 224	ERDS2TJ332	1/4W 3.3K E, EB, EG
R103	ERDS2TJ271	1/4W 270 E, EB, GC, GN	R145, 146	ERDS2TJ102	1/4W 1K E, EB, GC, GN	R223, 224	ERDS2TJ222T	1/4W 2.2K GC, GN
R103	ERDS2TJ330T	1/4W 33 EG	R145, 146	ERDS2TJ821T	1/4W 820 EG	R225, 226	ERDS2TJ104	1/4W 100K
R104	ERDS2TJ822	1/4W 8.2K	R147, 148	ERDS2TJ474	1/4W 470K	R227, 228	ERDS2TJ332	1/4W 3.3K
R105	ERDS2TJ471	1/4W 470	R149	ERDS2TJ680T	1/4W 68	R251, 252	ERDS2TJ102	1/4W 1K
R106	ERDS2TJ474	1/4W 470K	R151-154	ERDS2TJ104	1/4W 100K	R253, 254	ERDS2EJ121	1/4W 120
R107	ERDS2TJ331	1/4W 330	R155	ERDS2TJ102	1/4W 1K	R255	ERDS2TJ154	1/4W 150K
R108	ERDS2TJ474	1/4W 470K	R156	ERDS2TJ105T	1/4W 1M	R256	ERDS2TJ105T	1/4W 1M
R109	ERDS2TJ331	1/4W 330	R157, 158	ERDS2TJ102	1/4W 1K	R257	ERDS2TJ334	1/4W 330K
R110	ERDS2TJ102	1/4W 1K	R159	ERDS2TJ100	1/4W 10	R258	ERDS2TJ105T	1/4W 1M
R112	ERDS2TJ104	1/4W 100K	R160, 161	ERDS2TJ331	1/4W 330	R259	ERDS2TJ561	1/4W 560
R113	ERDS2TJ103	1/4W 10K	R162	ERDS2TJ152	1/4W 1.5K	R260	ERDS2TJ392T	1/4W 3.9K
R114	ERDS2TJ562	1/4W 5.6K	R163	ERDS2TJ331	1/4W 330	R281	ERDS2TJ102	1/4W 1K
R115	ERDS2TJ561	1/4W 560	R171, 172	ERDS2TJ102	1/4W 1K	R282	ERDS2TJ561	1/4W 560
R116	ERDS2TJ102	1/4W 1K	R173	ERDS2TJ471	1/4W 470	R291, 292	ERDS2TJ104	1/4W 100K
R117	ERDS2TJ682T	1/4W 6.8K	R175	ERDS2TJ102	1/4W 1K	R293, 294	ERDAS3G123T	1/4W 12K
R118	ERDS2TJ562	1/4W 5.6K	R176	ERDS2TJ391	1/4W 390	R295, 296	ERDAS3G622T	1/4W 6.2K
R119	ERDS2TJ392T	1/4W 3.9K E, EB, GC, GN	R191	ERDS2TJ103	1/4W 10K	R301, 302	ERDS2TJ562	1/4W 5.6K
R119	ERDS2TJ822T	1/4W 8.2K EG	R192	ERDS2TJ122	1/4W 1.2K	R303-306	ERDS2TJ563	1/4W 56K
R120	ERDS2TJ473	1/4W 47K	R193	ERDS2TJ182	1/4W 1.8K	R307, 308	ERDS2TJ562	1/4W 5.6K
R121	ERDS2TJ332	1/4W 3.3K	R194	ERDS2TJ122	1/4W 1.2K	R309-312	ERDS2EJ121	1/4W 120
R122	ERDS2TJ272T	1/4W 2.7K	R195	ERDS2TJ223	1/4W 22K	R313, 314	ERDS2TJ102	1/4W 1K
R124	ERDS2TJ391	1/4W 390	R201, 202	ERDS2TJ222	1/4W 2.2K	R315	ERDS2TJ334	1/4W 330K
R125, 126	ERDS2TJ472	1/4W 4.7K	R203, 204	ERDAS3G223T	1/4W 22K	R316	ERDS2TJ105T	1/4W 1M
R127	ERDS2TJ103	1/4W 10K	R205, 206	ERDS2TJ104	1/4W 100K	R351	ERDS2TJ563	1/4W 56K
R128	ERDS2TJ820	1/4W 82	R207, 208	ERDAS3G562T	1/4W 5.6K	R352	ERDS2TJ184T	1/4W 180K
R129	ERDS2TJ473	1/4W 47K	R209, 210	ERDAS3G332T	1/4W 3.3K	R353	ERDS2TJ274	1/4W 270K
R130, 131	ERDS2TJ102	1/4W 1K	R211, 212	ERDS2TJ222	1/4W 2.2K	R354	ERDS2TJ102	1/4W 1K
R132	ERDS2TJ103	1/4W 10K	R213, 214	ERDS2TJ204	1/4W 200K	R355	ERDS2TJ103	1/4W 10K
R133-137	ERDS2TJ102	1/4W 1K	R215, 216	ERDS2TJ474	1/4W 470K	R356	ERDS2TJ332	1/4W 3.3K
R138	ERDS2TJ103	1/4W 10K	R217, 218	ERDS2TJ102	1/4W 1K	R357 Δ	ERDS1FVJ390T	1/2W 39

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R358	ERDS2TJ220T	1/4W 22	R697	ERDS2TJ102	1/4W 1K	C125	ECBT1H150JC5	50V 15P
R361	ERDS2TJ474	1/4W 470K	R698	ERDS2TJ332	1/4W 3.3K	C126	ECBT1H4732F5	50V 0.047U
R362	ERDS2TJ102	1/4W 1K	R699	ERDS2TJ102	1/4W 1K	C127	ECEA1CKA220B	16V 22U
R371	ERDS2TJ103	1/4W 10K	R701, 702 Δ	ERD2FCVJ4R7T	1/4W 4.7	C128	ECBT1C103NS5	16V 0.01U
R372	ERDS2TJ823T	1/4W 82K	R703, 704	ERDS2TJ562	1/4W 5.6K	C129, 130	ECEAOJKA101B	6.3V 100U
R373	ERDS2TJ222	1/4W 2.2K	R705, 706	ERGSJ471E	1W 470	C131	ECBT1C103NS5	16V 0.01U
R374	ERDS2TJ823T	1/4W 82K	R707	ERDS2TJ680T	1/4W 68	C132	ECBT1H102KB5	50V 1000P
R375	ERDS2TJ153	1/4W 15K	R708	ERDS2TJ562	1/4W 5.6K	C133	ECBT1H150JC5	50V 15P
R398	ERDS2TJ332	1/4W 3.3K	R709, 710	ERGSJ391E	1W 390	C134	ECBT1H180JC5	50V 18P
R399	ERDS2TJ154	1/4W 150K	R711, 712	ERGSJ331E	1W 330	C135, 136	ECBT1C822MS5	16V 8200P
R457	ERDS2TJ105T	1/4W 1M GC, GN	R713 Δ	ERDS1FVJ2R2T	1/2W 2.2	C137, 138	ECBT1H271KB5	50V 270P
R459	ERDS2TJ272T	1/4W 2.7K GC, GN	R714	ERGSJ681E	1W 680	C139, 140	ECFR1E562KR	25V 5600P E, EB, GC, GN
R471, 472	ERDS2EJ121	1/4W 120 GC, GN	R715	ERDS2TJ153	1/4W 15K	C139, 140	ECFR1E822KR	25V 8200P EG
R501, 502	ERDS2TJ222	1/4W 2.2K	R716	ERDS2TJ102	1/4W 1K	C141-144	ECEA1HKA010B	50V 1U
R503-506	ERDS2TJ563	1/4W 56K	R717	ERDS2TJ103	1/4W 10K	C145	ECBT1H220JC5	50V 22P
R507, 508	ERDS2TJ272T	1/4W 2.7K	R799	ERDS2TJ103	1/4W 10K	C146	ECBT1H331KB5	50V 330P
R509, 510	ERDS2TJ102	1/4W 1K	R801	ERDS2TJ102	1/4W 1K	C147	ECBT1H102KB5	50V 1000P
R511	ERDS2TJ334	1/4W 330K	R803	ERDS2TJ103	1/4W 10K	C148	ECBT1C103NS5	16V 0.01U
R512	ERDS2TJ154	1/4W 150K	R805	ERDS2TJ562	1/4W 5.6K	C149	ECBT1H1042F5	50V 0.1U
R513	ERDS2TJ684	1/4W 680K	R806	ERDS2TJ392T	1/4W 3.9K GC, GN	C151	ECEA1HKA010B	50V 1U
R514 Δ	ERD2FVJ470	1/4W 47	R808	ERDS2TJ392T	1/4W 3.9K	C152	ECQB1H223JF3	50V 0.022U
R515, 516 Δ	ERDS1FVJ100T	1/2W 10	R809, 810	ERDS2TJ272T	1/4W 2.7K	C153	ECEA1AKA101B	10V 100U
R517, 518 Δ	ERD2FVJ100T	1/4W 10	R811	ERDS2TJ221	1/4W 220	C155, 156	ECBT1E1032F	25V 0.01U
R551, 552	ERDS2TJ223T	1/4W 22K GC, GN	R812	ERDS2TJ332	1/4W 3.3K	C157, 158	ECBT1H101KB5	50V 100P
R553, 554	ERDS2TJ182T	1/4W 1.8K GC, GN	R820-822	ERDS2TJ272T	1/4W 2.7K	C171	ECBT1C103NS5	16V 0.01U
R555, 556	ERDS2TJ102T	1/4W 1K GC, GN	R1601	ERDS2TJ223	1/4W 22K	C172	ECBT1H331KB5	50V 330P
R557, 558 Δ	ERDS1FVJ4R7T	1/2W 4.7 GC, GN	R1602	ERDS2TJ473	1/4W 47K	C173	ECEA1CKA220B	16V 22U
R559	ERDS2TJ271T	1/4W 270 GC, GN	R1603	ERDS2TJ223	1/4W 22K	C174	ECEA1CKA100B	16V 10U E, EB, GC, GN
R560, 561	ERDS2TJ103T	1/4W 10K GC, GN	R1604, 1605	ERDS2TJ102	1/4W 1K	C174	ECEA1CKA101B	16V 100U EG
R571	ERDS2TJ823T	1/4W 82K				C181	ECBT1H471KB5	50V 470P EG
R572	ERDS2TJ124T	1/4W 120K				C201, 202	ECBT1H101KB5	50V 100P
R573	ERDS2TJ563	1/4W 56K				C203, 204	ECQB1H393JF3	50V 0.039U
R611	ERDS2TJ470	1/4W 47				C205, 206	ECQB1H333JF3	50V 0.033U
R613, 614	ERDS2TJ101	1/4W 100				C207, 208	ECBT1H471KB5	50V 470P
R615	ERDS2TJ5R6	1/4W 5.6				C209, 210	ECEA1HKA3R3B	50V 3.3U
R616-619	ERDS2TJ104	1/4W 100K				C211, 212	ECBT1H101KB5	50V 100P
R620	ERDS2TJ221	1/4W 220				C213, 214	ECQB1H822JF3	50V 8200P E, EB, EG
R621	ERDS2TJ104	1/4W 100K				C213, 214	ECQB1H103JF3	50V 0.01U GC, GN
R622, 623	ERDS2TJ223	1/4W 22K				C215, 216	ECBT1H101KB5	50V 100P
R624	ERDS2TJ393	1/4W 39K				C217, 218	ECBT1H151KB5	50V 150P
R625	ERDS2TJ564	1/4W 560K				C219, 220	ECEA1CKA100B	16V 10U
R626-629	ERDS2TJ223	1/4W 22K				C221, 222	ECQB1H333JF3	50V 0.033U
R630	ERDS2TJ103	1/4W 10K				C251	ECEAOJKA221B	6.3V 220U
R631	ERDS2TJ332	1/4W 3.3K				C252	ECEA1CKA100B	16V 10U
R632	ERDS2TJ103	1/4W 10K				C281-287	ECBT1E1032F	25V 0.01U
R634	ERDS2TJ223	1/4W 22K				C291, 292	ECQB1H223JF3	50V 0.022U
R635	ERDS2TJ224T	1/4W 220K				C293, 294	ECBT1H101KB5	50V 100P
R636	ERDS2TJ104	1/4W 100K				C301, 302	ECEA1HKA3R3B	50V 3.3U
R637	ERDS2TJ102	1/4W 1K				C303, 304	ECBT1H101KB5	50V 100P
R639	ERDS2TJ560T	1/4W 56				C305, 306	ECBT1H330J5	50V 33P
R660-662	ERDS2TJ102	1/4W 1K				C307, 308	ECEA1HKA3R3B	50V 3.3U
R664, 665	ERDS2TJ102	1/4W 1K				C309	ECEA1HKA010B	50V 1U

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C351	ECEA1CKA100B	16V 10U	C712	ECBT1E223ZF	25V 0.022U
C352	ECBT1E223ZF	25V 0.022U	C714, 715	ECKR1H103ZF5	50V 0.01U
C353	ECEA1HKA2R2B	50V 2.2U	C801, 802	ECBT1H470J5	50V 47P
C361	ECEA1CN470SB	16V 47U	C803	ECBT1H104ZF5	50V 0.1U
C371	ECEA0JKA221B	6.3V 220U	C810	ECBT1H470J5	50V 47P
C381, 382	ECBT1E103ZF	25V 0.01U	C811	ECBT1E103ZF	25V 0.01U
C397, 398	ECBT1E103ZF	25V 0.01U	C821, 822	ECBT1H220J5	50V 22P
C451	ECEA1CKA100B	16V 10U GC, GN	C905, 906	ECBT1H101KB5	50V 100P
C501, 502	ECA1HAP3R3B	50V 3.3U	C907, 908	ECBT1E223ZF	25V 0.022U
C503, 504	ECBT1H331KB5	50V 330P	C911	ECKR1H102ZF5	50V 1000P
C505, 506	ECBT1H6R8K5	50V 6.8P	C1101, 1102	ECBT1E223ZF	25V 0.022U
C507, 508	ECBT1H102KB5	50V 1000P	C1103, 1104	ECBT1H102KB5	50V 1000P E, EB, EG
C509, 510	ECA1HAP3R3B	50V 3.3U	C1105, 1106	ECBT1H102KB5	50V 1000P
C511, 512	ECBT1H821KB5	50V 820P	C1107, 1108	ECBT1E223ZF5	25V 0.022U GC, GN
C513	ECA1HAP330B	50V 33U	C1111	ECBT1H102KB5	50V 1000P GC, GN
C514	ECA2AAP100B	100V 10U			
C515, 516	ECBT1H104ZF5	50V 0.1U			
C551	ECBT1C472KR5	16V 4700P GC, GN			
C552	ECBT1C222KR5	16V 2200P GC, GN			
C553, 554	ECEA1HKA3R3B	50V 3.3U GC, GN			
C555	ECEA1HKA2R2B	50V 2.2U GC, GN			
C556	ECEA1HKA010B	50V 1U GC, GN			
C557, 558	ECA1VM101B	35V 100U GC, GN			
C559, 560	ECQV1H473JM3	50V 0.047U GC, GN			
C561	ECA1EM221B	25V 220U GC, GN			
C562	ECEA1HKNO10B	50V 1U GC, GN			
C563	ECQV1H104JM3	50V 0.1U GC, GN			
C571	ECEA0JKA101B	6.3V 100U			
C599	ECBT1C103MS5	16V 0.01U E, EB, EG			
C601	ECEA0JU102	6.3V 1000U			
C602	ECBT1E103ZF	25V 0.01U			
C603	ECEA1CKA100B	16V 10U			
C604	ECEA1HKA3R3B	50V 3.3U			
C605	ECEA1VKA100B	35V 10U			
C607	ECEA1HKA010B	50V 1U			
C608	ECEA1HKA022B	50V 0.22U			
C609, 610	ECBT1E103ZF	25V 0.01U			
C611	ECBT1H102KB5	50V 1000P			
C612	ECBT1E223ZF	25V 0.022U			
C620	ECEA1HKA010B	50V 1U			
C621, 622	ECBT1H200JC5	50V 20P			
C698, 699	ECBT1E103ZF	25V 0.01U			
C701, 702△	ECA1HM332B	50V 3300U E, EB, EG			
C701, 702△	ECEA45V472YB	45V 4700U GC, GN			
C703, 704	ECEA1CKA330B	16V 33U			
C705	ECQB1H223JF3	50V 0.022U			
C706	ECKR1H103ZF5	50V 0.01U			
C707 △	ECA1HM221B	50V 220U			
C708	ECEA1CKA100B	16V 10U			
C709	ECBT1E103ZF	25V 0.01U			
C710 △	ECA1HAP330B	50V 33U			
C711	ECQE1104KF3	100V 0.1U			

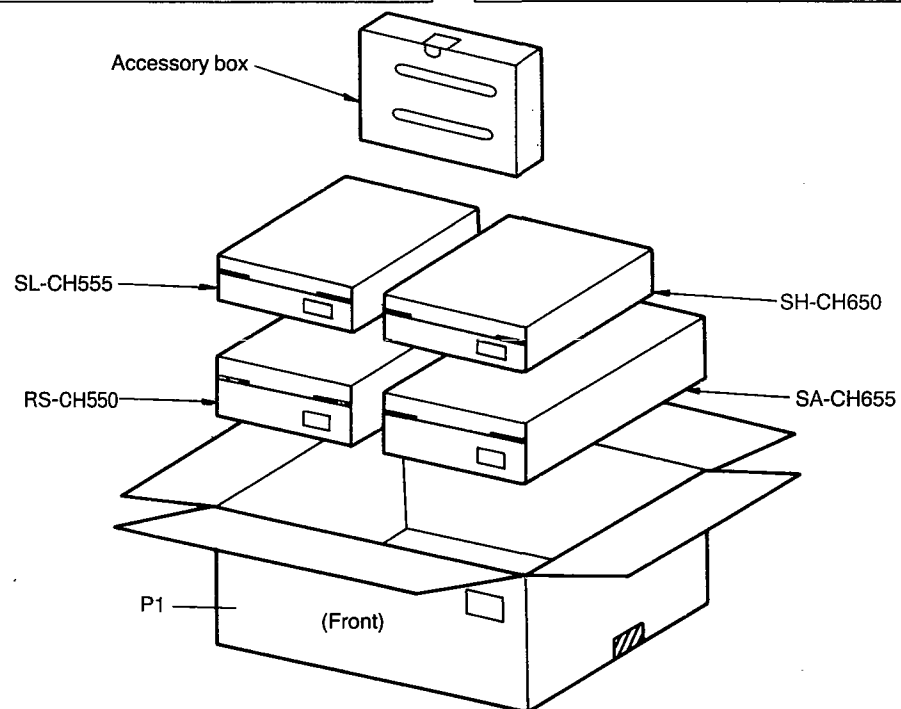
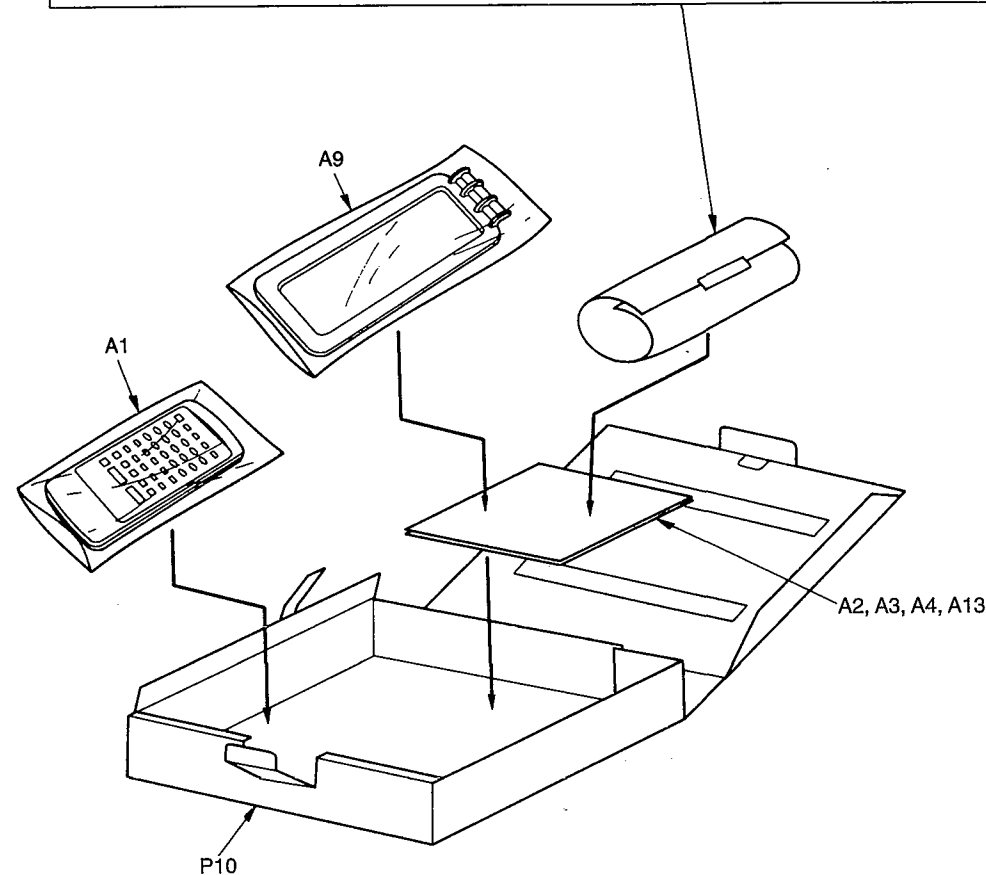
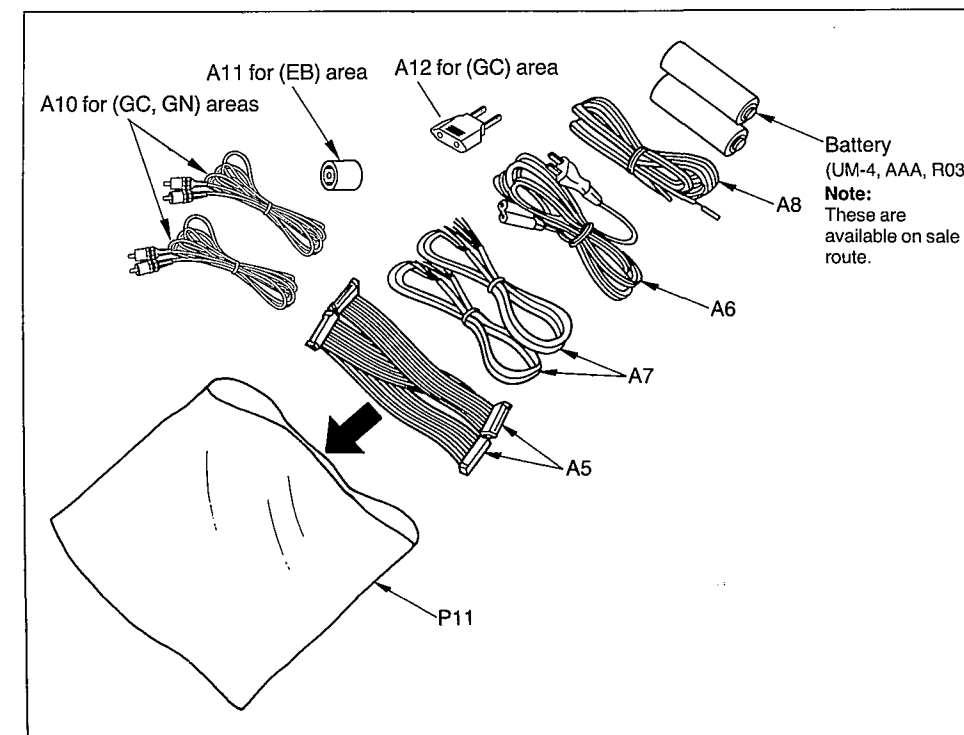
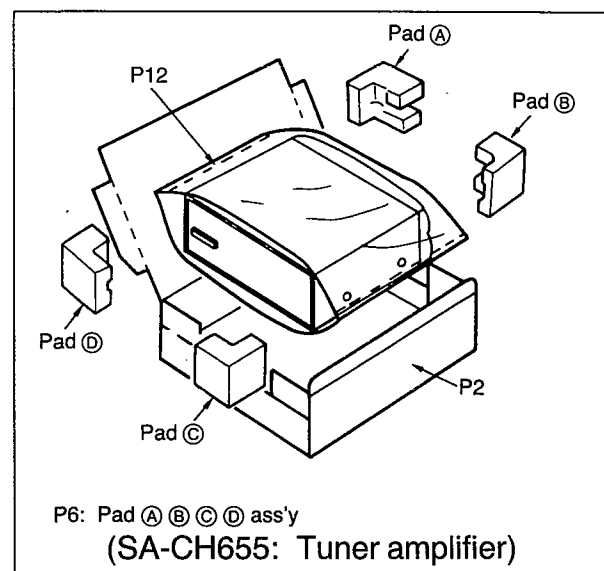
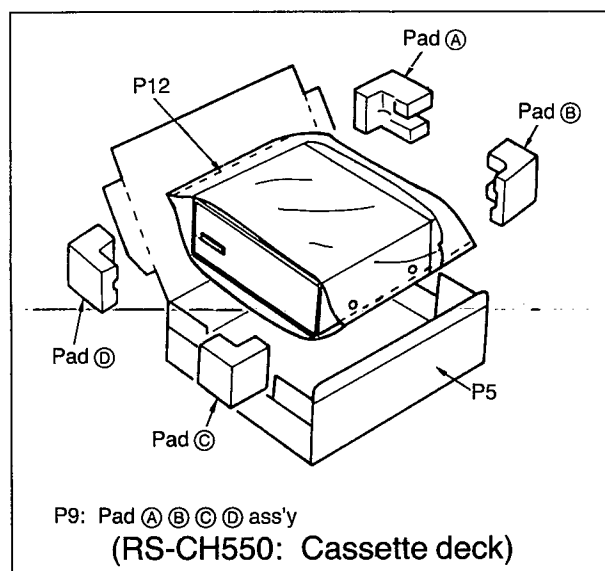
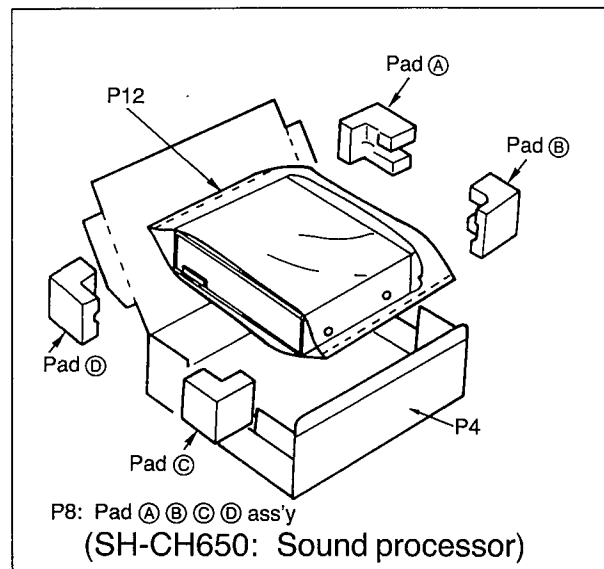
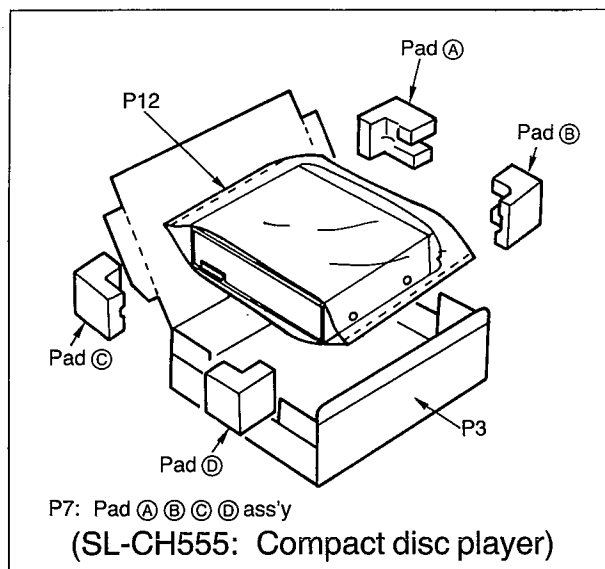
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS				PACKING MATERIALS	
1	RHD30007	SCREW		P1	RPG1448	PACKING CASE (SYSTEM)	(E, EG)
2	RKM0202A-1K	CABINET		P1	RPG1449	PACKING CASE (SYSTEM)	(EB)
3	XTBS3+8JFZ1	SCREW		P1	RPG1450	PACKING CASE (SYSTEM)	(GC)
4	RGW0152-K	KNOB, MAIN VOLUME		P1	RPG1451	PACKING CASE (SYSTEM)	(GN)
5	RFKJACH550PK	BOTTOM BOARD ASS'Y	(E, EB, EG, GN)	P2	RPG1312	PACKING CASE (AMPLIFIER)	
5	RFKJACH655GC	BOTTOM BOARD ASS'Y	(GC)	P3	RPG1437	PACKING CASE (CD)	
5-1	RKA0055-N	FOOT		P4	RPG1314	PACKING CASE (PROCESSOR)	
6	RFKHACH655EK	REAR GRILL ASS'Y	(E)	P5	RPG1313	PACKING CASE (DECK)	
6	RFKHACH655EB	REAR GRILL ASS'Y	(EB)	P6	RPN0619	PAD (AMPLIFIER)	
6	RFKHACH655EG	REAR GRILL ASS'Y	(EG)	P7	RPN0681	PAD (CD)	
6	RFKHACH655GC	REAR GRILL ASS'Y	(GC)	P8	RPN0621	PAD (PROCESSOR)	
6	RFKHACH655GN	REAR GRILL ASS'Y	(GN)	P9	RPN0620	PAD (DECK)	
7	RMCO158	TRANSISTOR HOLDER		P10	RPQF0047	ACCESSORY BOX	
8	RMCO182	EARTH PLATE	(EG)	P11	XZB22X20C03	PROTECTION COVER	
8	RMCO164	EARTH PLATE	(E, EB, GC, GN)	P12	XZB45X50A01Z	PROTECTION COVER	
9	RMNO190	HOLDER (A)				ACCESSORIES	
10	RMNO191	HOLDER (B)					
11	RMQ0260	HOLDER (L)					
12	RMQ0261	HOLDER (R)		A1	RAK-SC003WH	REMOTE CONTROL TRANSMITTER	
13	RMNO183-1	FL. HOLDER		A1-1	RKK0020-K	BATTERY COVER	
14	RFKGACH655PK	FRONT PANEL ASS'Y		A2	RFKSACH655EK	INSTRUCTIONS MANUAL ASS'Y	(E)
14-1	RKWO225-K	FL. PANEL		A2	RQT1770-B	INSTRUCTIONS MANUAL	(EB)
15	RGU0768-K	BUTTON, POWER		A2	RFKSACH655EG	INSTRUCTIONS MANUAL ASS'Y	(EG)
16	RGU0769B-K	BUTTON, INPUT SELECTOR etc.	(GC, GN)	A2	RFKSACH655GC	INSTRUCTIONS MANUAL ASS'Y	(GC)
16	RGU0769A-K1	BUTTON, INPUT SELECTOR etc.	(E, EB, EG)	A2	RQT1770-B	INSTRUCTIONS MANUAL	(GN)
17	XTBS26+8J	SCREW		A3	RQA0013	WARRANTY CARD	(E, EB, EG)
18	SHE187-2	P. C. B. SPACER		A3	RQX7433ZA	WARRANTY CARD	(GN)
19	SNE4021-1	NUT		A4	RQC00169	SERVICE CENTER LIST	
20	RJS1A5508	HOLDER, CABLE		A5	REX0462	FLAT CABLE (15P)	
21	XTB3+12JFZ	SCREW		A6	RJA0019-2K	AC POWER SUPPLY CORD	(E, EG, GC)△
22	XTB3+20JFZ	SCREW		A6	VJA0733	AC POWER SUPPLY CORD	(EB)△
23	XTB3+8JFZ	SCREW		A6	SJA173	AC POWER SUPPLY CORD	(GN)△
24	XTWS3+10T	SCREW		A7	SWXS257M	SPEAKER CORD	
25	XTW3+15T	SCREW		A8	RSA0007	FM INDOOR ANTENNA	(E, EB, EG)
26	XTW3+8T	SCREW		A8	RSA0006	FM INDOOR ANTENNA	(GC, GN)
27	RWJ1808110XX	FLAT CABLE (8P) (J703)		A9	SPB1163T	LW/MW LOOP ANTENNA	
28	RMNO215	FAN ANGLE		A9-1	SMA233-1M	ANTENNA HOLDER	
29	SYE1128-2	FAN ASS'Y		A9-2	XTN3+10AFZ	SCREW	
29-1	SHE232	FAN		A10	RJL1P001B25	SURROUND SP. CORD	(GC, GN)
29-2	SUS271	SPRING		A11	SJP9009	ATTACHMENT PLUG	(EB)△
29-3	SHE233-1	FAN CASE		A12	SJP5213-2	POWER PLUG ADAPTOR	(GC)△
29-4	MDN-4RB4MRC	MOTOR		A13	RQLA0134	LOCAL VOLTAGE CAUTION LABEL	(GC)
29-5	SHE234	CAP					
29-6	SJT783	TERMINAL					
29-7	SJS5215	CONNECTOR (2P)					
30	RMCO197	EARTH PLATE (TUNER PACK)	(EG)				

# CABINET PARTS LOCATION



■ PACKAGING

1078



Accessory box

SL-CH555

SH-CH650

RS-CH550

SA-CH655

P1

(Front)