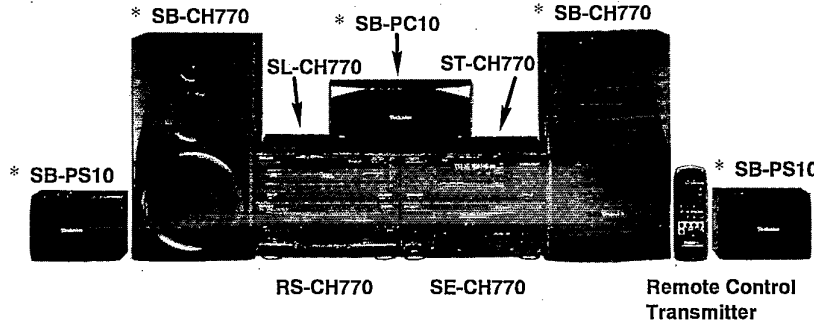


Service Manual

Amplifier

Amplifier

SE-CH770



Colour
 (K) : Black

Areas

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

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

Specifications

Power output
 DIN 1 kHz, THD 1%, both channel driven 2 × 50 W (6 Ω)
 RMS 1 kHz, THD 10%, both channel driven
 [For (E), (EB), (EG) and (GN) areas] 2 × 70 W (6 Ω)
 [For (GC) area] 2 × 65 W (6 Ω)

PRO LOGIC mode
 DIN 1 kHz, THD 1 %
 MAIN (both channels driven) 2 × 40 W (6 Ω)
 SURROUND 40 W (4 Ω + 4 Ω)
 CENTER 40 W (8 Ω)

RMS 1 kHz, THD 10 %
 MAIN (both channels driven) 2 × 50 W (6 Ω)
 SURROUND 50 W (4 Ω + 4 Ω)
 CENTER 50 W (8 Ω)

[For (GC) area only]
 PMPO 1kHz 1700 W
 [MAIN (both channels driven) 6 Ω, SURROUND 4 Ω + 4 Ω, CENTER 8 Ω]

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

Load impedance
 MAIN 6 Ω – 8 Ω

SURROUND 4 Ω – 8 Ω
CENTER 8 Ω
S/N (rated power)
MAIN 90 dB

■ General

Power consumption
 [For (E), (EB), (EG) and (GN) areas] 210 W
 [For (GC) area] 460 W
 [THD 10 %, MAIN (both channels driven) 6 Ω, SURROUND 4 Ω + 4 Ω, CENTER 8 Ω]

Power supply
 [For (E) and (EG) areas] 230 V, AC 50/60 Hz
 [For (EB) and (GN) areas] 230 – 240 V, AC 50/60 Hz
 [For (GC) area] 110/127/220/230-240 V, AC 50/60 Hz

Dimensions (W × H × D) 270 × 118.5 × 342.5 mm
Weight 4.9 kg

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

System	Tuner/sound processor	Compact disc changer	Amplifier	Cassette deck	Front speakers	Center speaker	Surround speakers
SC-CH770	ST-CH770	SL-CH770	SE-CH770	RS-CH770	*SB-CH770	*SB-PC10	*SB-PS10

* For (E),(EB) and (EG) areas: Made in PAES
 For (GC) and (GN) areas : Made in NABEL

WARNING
 This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



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■ Contents

	Page		Page
Before Repair	2	External Unit Connections	7
Protection Circuitry	2	Enjoy Sound with DOLBY PRO LOGIC	8, 9
Accessories	2	Operation Check and	
Caution of AC Mains Lead	3	Main Component Replacement Procedures	10 ~ 12
Location of Controls	3	Power Source ON/OFF of This Unit	12
Installation	4	Schematic Diagram	13 ~ 16
Flat Cable Connections	4	Printed Circuit Board Diagram	17 ~ 19
Antenna Connections	5	Wiring Connection Diagram	20
Connection of Front and Surround Speakers	5	Block Diagram	21
Connection of Center Speaker	6	Replacement Parts List	22 ~ 26
Connection of AC Power Supply Cord	6	Cabinet Parts Location	27
Optional Antenna Connections	6	Packaging	28

■ Before Repair

- (1) Turn off the power supply. Using a 10 Ω, 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.

Area	(E) (EG)	(EB)	(GC)	
Power supply voltage	AC 230 V	AC 240 V	AC 110 V	AC 240 V
Consumed current 50 Hz	60 ~ 240 mA	60 ~ 240 mA	120 ~ 480 mA	60 ~ 240 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:

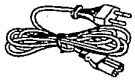
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

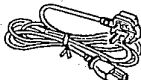
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ Accessories

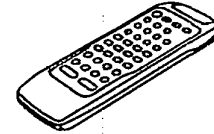
- AC power supply cord
(E), (EG) and (GC) areas : (RJA0019-2K) 1
(EB) area : (VJA0733) 1
- Flat cable
Long (REX0661) 1
Medium (REX0660) 1
Short (REX0608) 1
- Remote control transmitter
(RAK-CH202WH) 1
- Batteries
(UM-4, "AAA", R03) 2
- AM (LW/MW) loop antenna
(RSA0012) 1
- Antenna holder
(RMN0244) 1
- Mounting screw
(XTN3+12AFZ) 1
- FM indoor antenna
(E), (EB) and (EG) areas : (RSA0007) 1
(GC) area : (RSA0006) 1
- Speaker cords
(REE0393) 2
- Attachment plug
for (EB) area only (SJP9009) 1
- Power plug adaptor
for (GC) area only (SJP5213-2) 1



(E), (EG) and (GC)



(EB)



(E), (EB) and (EG)



(GC)



■ Caution for AC Main 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

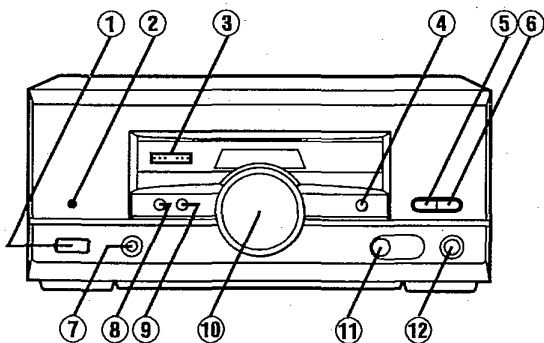
Brown: Live

As 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.

This apparatus was produced to BS 800.

■ Location of Controls

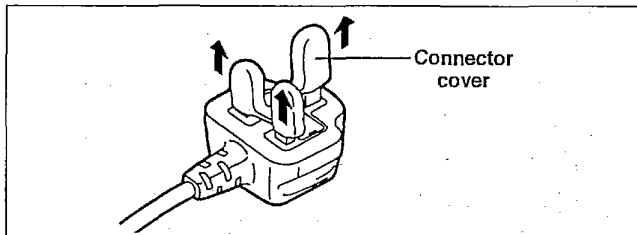


The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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 .

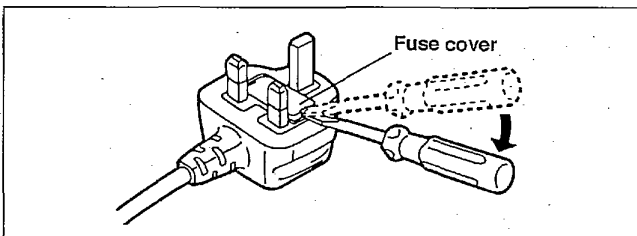
Before use

Removal the connector cover as follows.

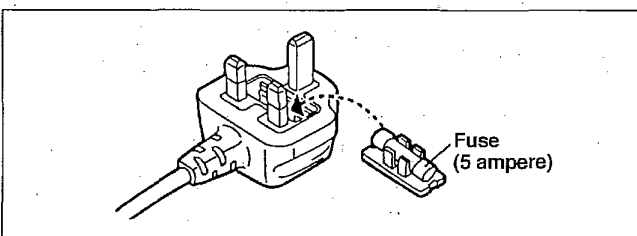





How to replace the fuse

1. Remove the fuse cover with a screwdriver.

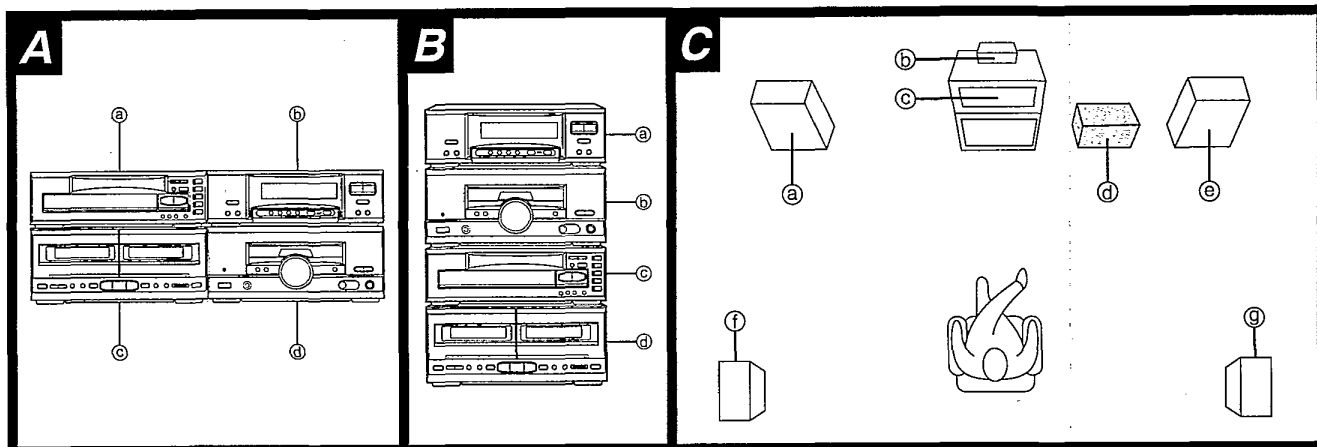


2. Replace the fuse and attach the fuse cover.



- ① Power "STANDBY /ON" switch (POWER, "STANDBY" )
- ② Standby indicator (STANDBY)
- ③ Dolby Pro Logic indicators (SURROUND, 3 STEREO)
- ④ Center mode select button (CENTER MODE)
- ⑤ EQ SPACE/flat button (EQ SPACE/FLAT)
- ⑥ V.bass button (V.BASS)
- ⑦ Headphones jack (PHONES) (\varnothing 3.5, 32 Ω)
- ⑧ DOLBY PRO LOGIC mode select button ( PRO LOGIC)
- ⑨ Test signal button (TEST)
- ⑩ Volume control (VOLUME)
- ⑪ Microphone jack (MIC) (\varnothing 6.3, 600 Ω)
- ⑫ Microphone volume control (MIC VOL)

Installation



Stacking the components

Horizontal stacking

- Ⓐ CD changer (SL-CH770)
- Ⓑ Tuner/sound processor (ST-CH770)
- Ⓒ Cassette deck (RS-CH770)
- Ⓓ Amplifier (SE-CH770)

Vertical stacking

- Ⓐ Tuner/sound processor (ST-CH770)
- Ⓑ Amplifier (SE-CH770)
- Ⓒ CD changer (SL-CH770)
- Ⓓ Cassette deck (RS-CH770)

Placement of speakers

As well as enjoying normal stereo reproduction with the left and right front speakers, a center speaker and surround speakers can also be connected to the unit in order to enjoy the sound performance of DOLBY PRO LOGIC Systems.

We recommend that surround speakers be placed on the side of or slightly behind the listener, and about one meter higher than ear level.

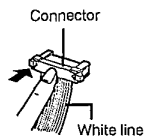
However the position should be adjusted to your personal preference, because the effect varies to some degree depending upon the type of music and the music source.

- Ⓐ Front speaker (Left) (SB-CH770)
- Ⓑ Center speaker (SB-PC10)
- Ⓒ TV (not included)
- Ⓓ This system
- Ⓔ Front speaker (Right) (SB-CH770)
- ⓫ Surround speaker (Left) (SB-PS10)
- ⓬ Surround speaker (Right) (SB-PS10)

Flat Cable (included) Connections

Before marking connections:

Make sure the white line on the cable is on the right side.

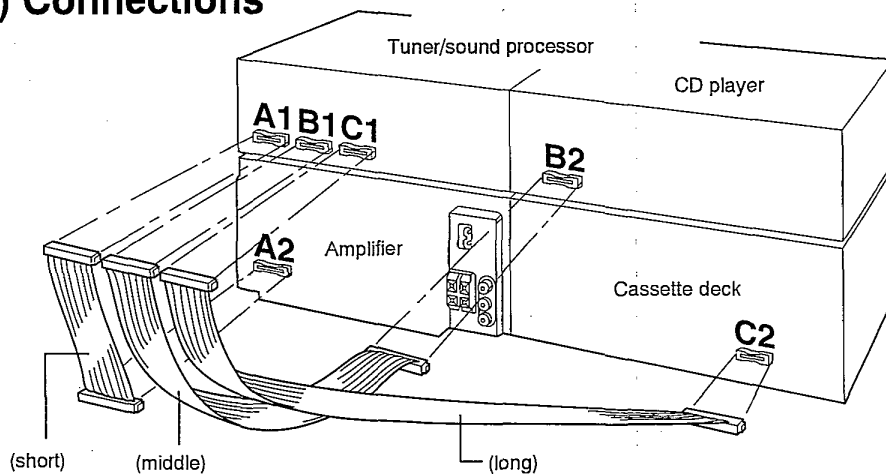


To unplug cables:

Hold the connector from both ends.

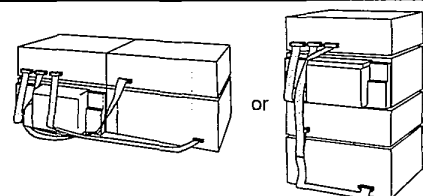


Note Do not try connecting or disconnecting the flat cables while the power is switched to ON.

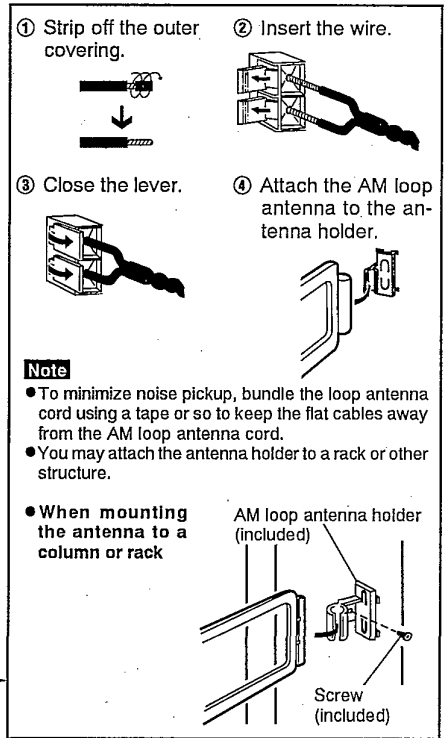
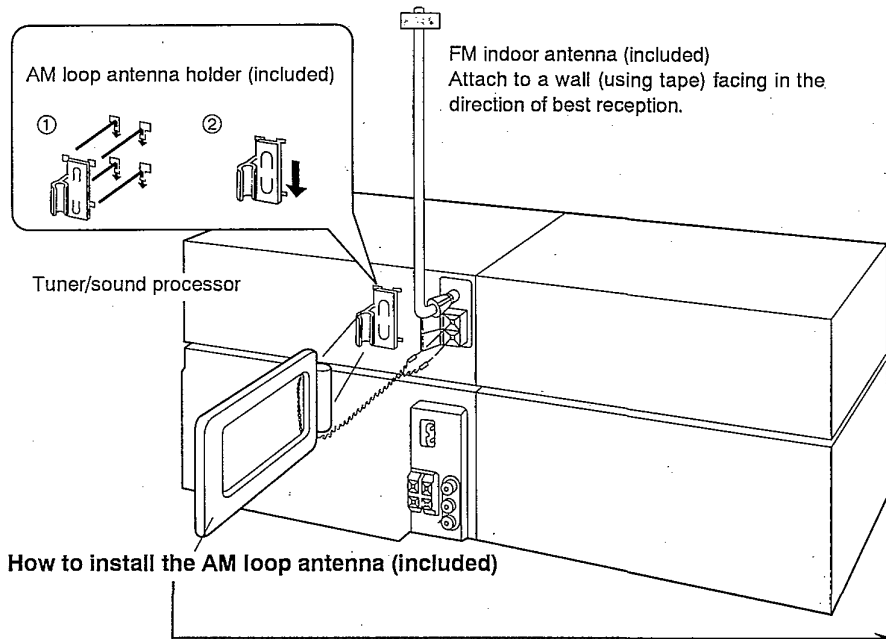


After connection:

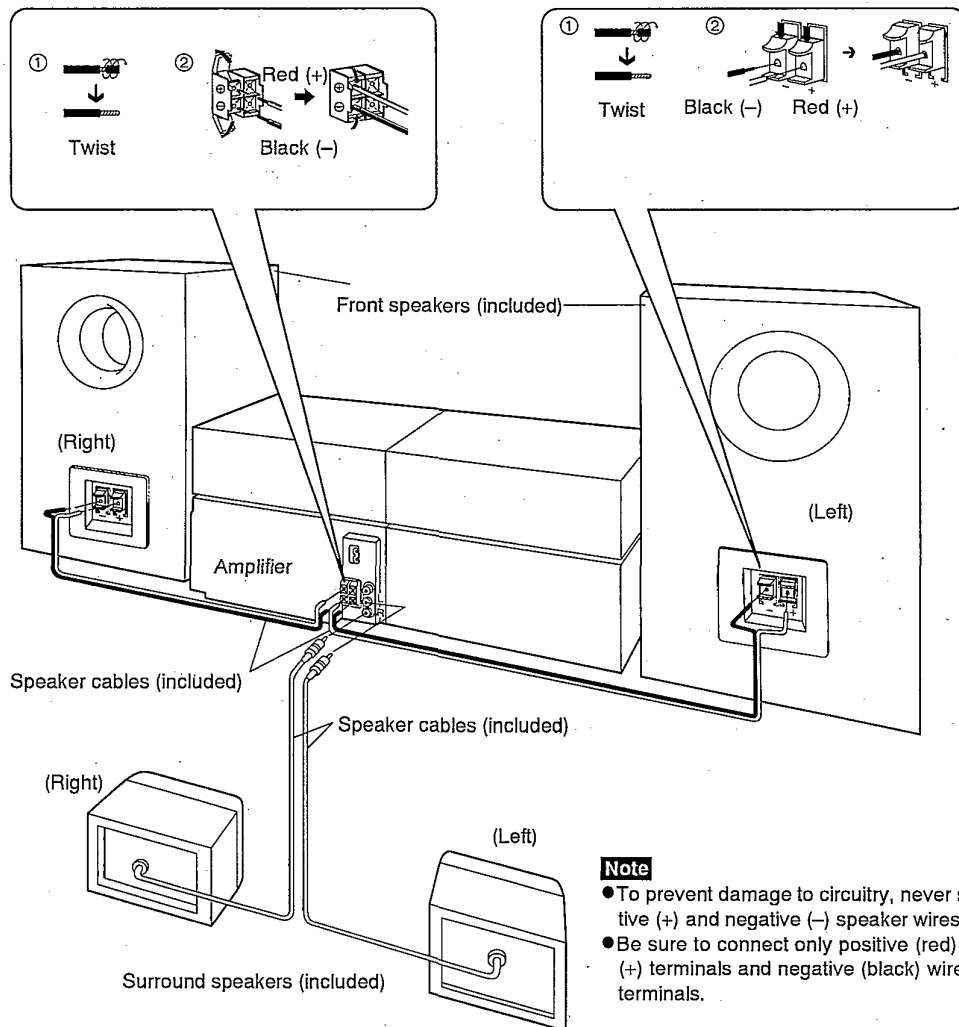
Fold and press the cable as flat to the back of the unit as possible. (To minimize noise pickup while listening an MW/LW broadcast)



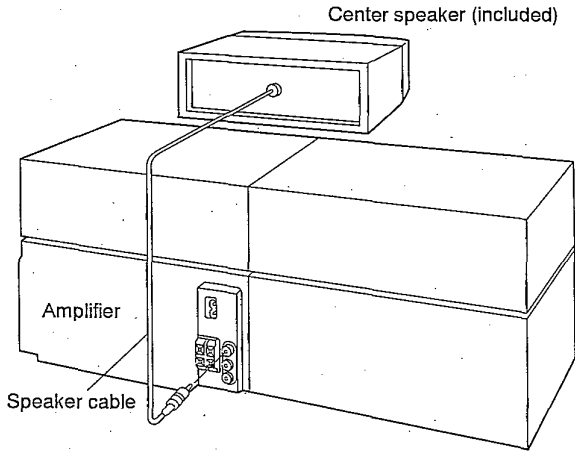
Antenna Connections



Connection of Front and Surround Speakers

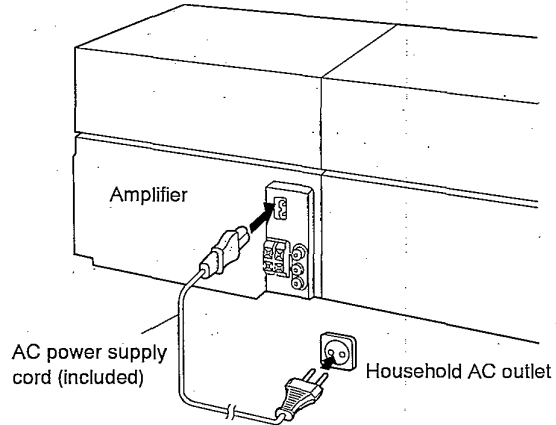


■ Connection of Center Speaker



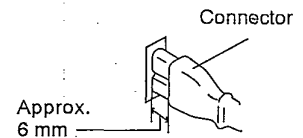
■ Connection of AC Power Supply Cord

● Plug the cord into an outlet only after all other connections have been made.

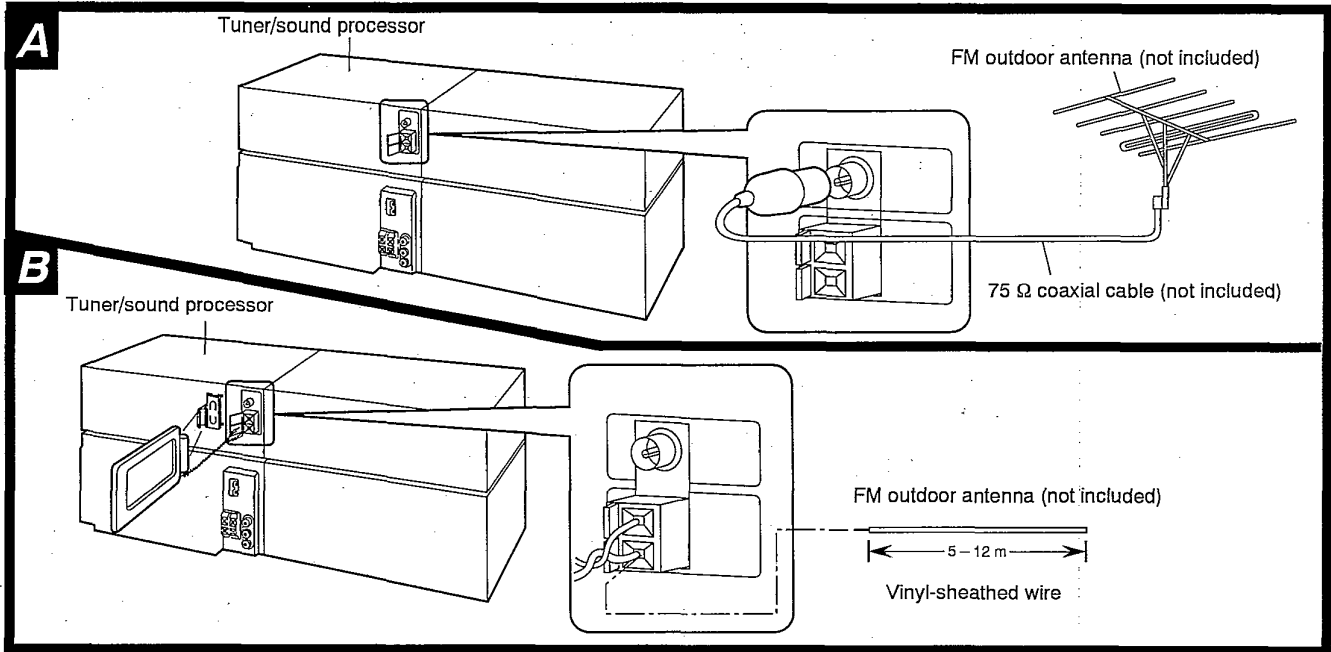


Insertion of Connector:

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.



■ Optional Antenna Connections



FM outdoor antenna (not included) ▣

The outdoor antenna should be used when using this unit in mountainous areas or in spaces enclosed by reinforced concrete where the FM indoor antenna (included) does not provide satisfactory reception.

Note

An outdoor antenna should be installed by a qualified technician only.

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

The outdoor antenna should be used when using this unit in mountainous areas or in spaces enclosed by reinforced concrete where the AM loop antenna (included) does not provide satisfactory reception.

Use 5-12 m of vinyl-sheathed wire horizontally at the window, or a convenient location.

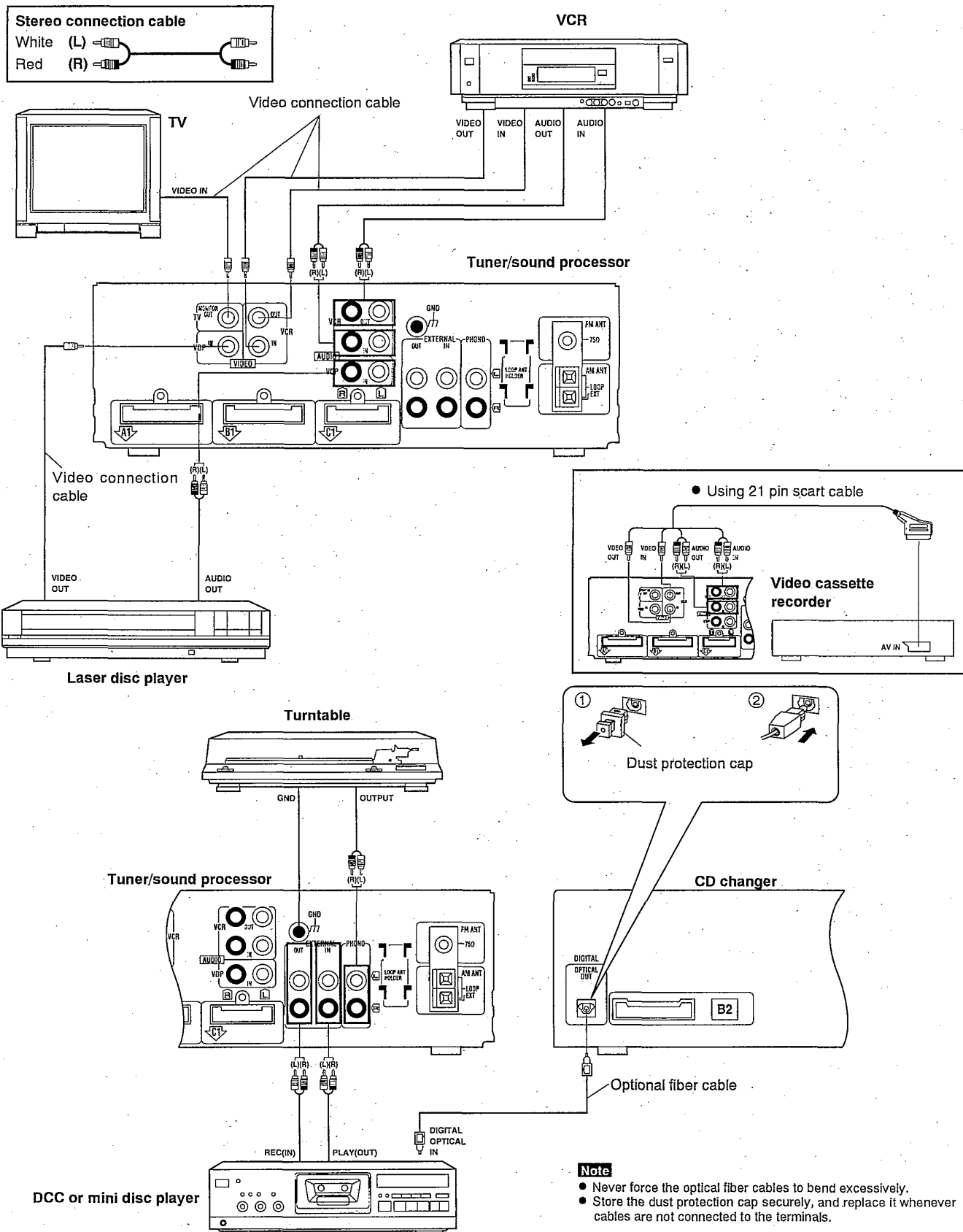
When the unit is not in use, disconnect the outdoor antenna to prevent possible damage from lightning. Never use an outdoor antenna during an electrical storm.

Note

Be sure to connect the AM loop antenna even when an outdoor antenna is used.

External Unit Connections

- Make sure that the power supply for all components has been turned off before making any connections.
- For details, refer to the operating instructions of the units which are to be connected.
- All peripheral components and cables sold separately.



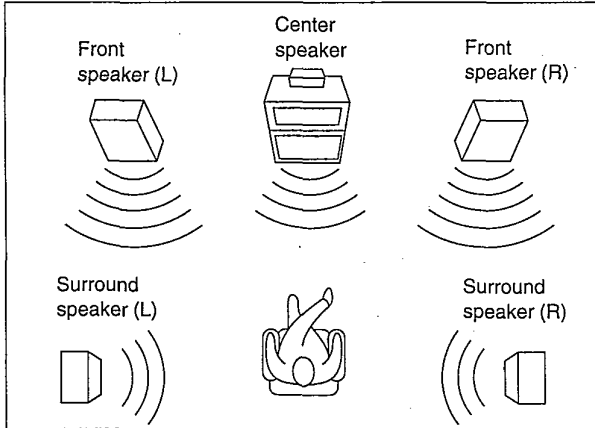
■ Enjoying Sound with DOLBY PRO LOGIC

By combining front, center and surround speakers, you can enjoy the SURROUND mode which conveys a feeling of presence or the 3 STEREO mode which conveys a feeling of orientation.

SURROUND

By reproducing the feeling of depth and movement of sound, video software or compact discs recorded with Dolby Surround provide the listener with a feeling of presence like that of a movie theater.

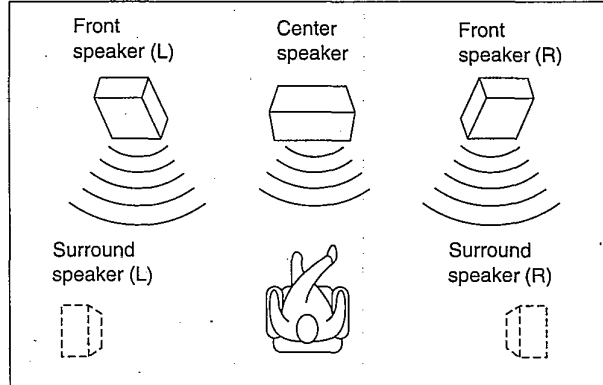
To enjoy SURROUND, be sure to connect the surround speakers.




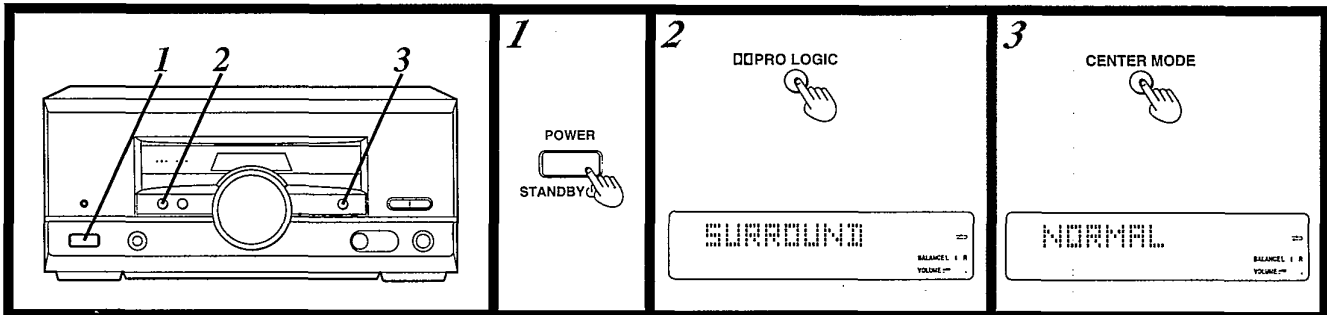
3 STEREO

You can enjoy audio/video sources with clear sound, more presence and a good feeling of orientation. 3 STEREO can be used with sources not recorded in DOLBY SURROUND.

To enjoy 3 STEREO, be sure to connect the center speaker.



Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, and the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.



Setting the center mode

For Dolby Pro Logic systems, center mode setting is necessary to play back bass sounds effectively. Set the center mode in accordance with the size of your center speaker.

- 1 Switch on the power.
- 2 Press PRO LOGIC to select "SURROUND" or "3 STEREO".
Each time you press the button, the display will change as follows:
SURROUND → 3 STEREO → OFF

- 3 Press CENTER MODE to select "NORMAL" mode.
Each time you press the button, the display will change as follows:
NORMAL → WIDE → PHANTOM

Note

"PHANTOM" will not be displayed when you select "3 STEREO" in step 2.

NORMAL:

When the center speaker is smaller than the front speakers

WIDE:

When the center speaker is the same or larger size as the front speakers

PHANTOM: SURROUND only

When no center speaker is connected.

Note

In the PHANTOM mode, the sound which would have been sent to the center speaker will be divided equally between both the left and right front speakers.

■ Operation Check and Main Component Replacement Procedures

NOTE

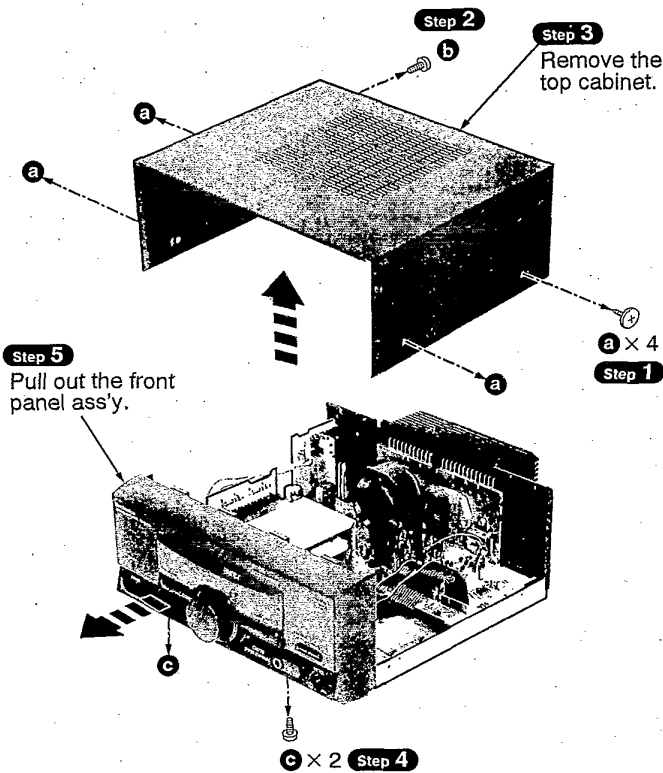
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select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

● Contents

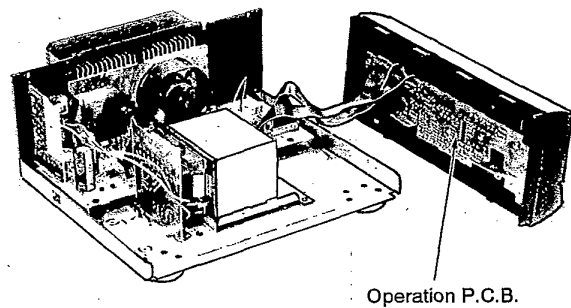
•Checking Procedures for each P.C.B.	Page.
1. Checking for the operation P.C.B..	10.
2. Checking for the main P.C.B..	11.
•Main Component Replacement Procedures	
1. Replacement for the power IC and regulator transistor.	12.




■ Checking Procedure for each P.C.B.

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







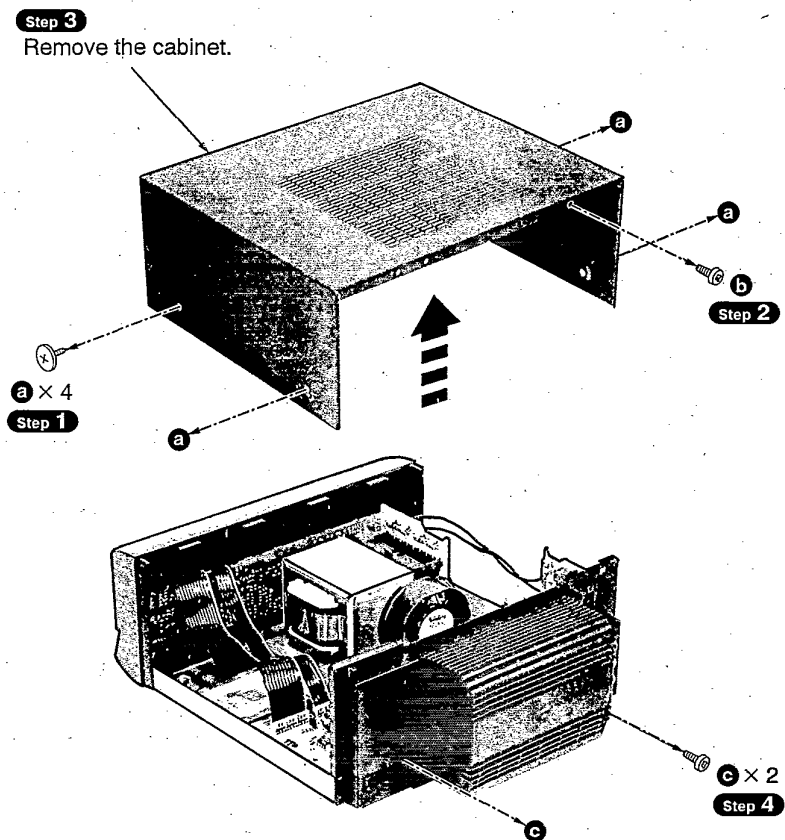
• Check the operation P.C.B. as shown below.



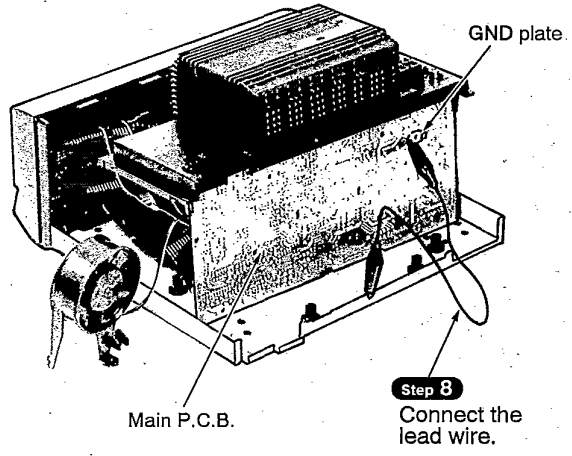
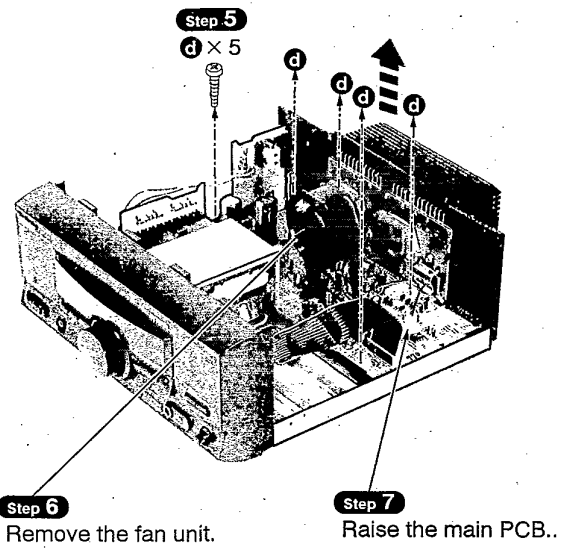
-  a
[RHD30007-K1] (Black)
-  b
[XTBS3+10JFZ1] (Black)
-  c
[XTBS3+8JFZ1] (Black)

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

-  **a**
[RHD30007-K1] (Black)
-  **b**
[XTBS3+10JFZ1] (Black)
-  **c**
[XTB3+10JFZ] (Black)
-  **d**
[XTB3+20JFZ] (Black)



• Check the main P.C.B. as shown below.



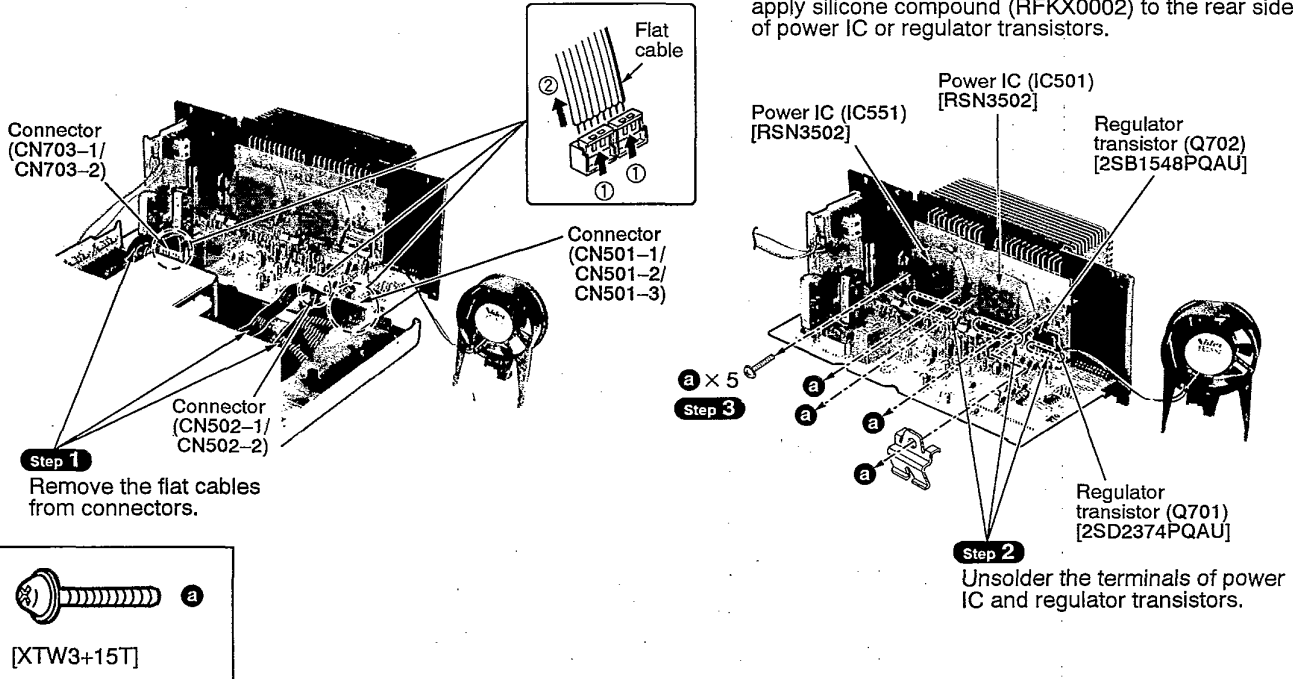
Main Component Replacement Procedures

1. Replacement for the power IC and regulator transistor

- Follow the item 2 (**Step 1** ~ **Step 7**) checking procedures for each P.C.B. on page 11.

NOTE

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



Power Source ON/OFF of This Unit

- Connect this unit to an AC outlet by the AC power cord. (This unit comes to stand-by mode.)
- Short the test point **TP701** in Fig. 1. This unit comes to power ON mode.

Operation Check

- Set this unit to power ON mode.
- Input a signal (1 kHz, 100mV), and confirm it to be outputted from the speaker terminal.

	INPUT	OUTPUT
Lch	J603 - J308	Lch speaker terminal
Rch	J604 - J308	Rch speaker terminal
Surround	J611 - J308	Surround speaker terminal (To output a signal, both Lch and Rch should be connected.)
Center	J612 - J308	Center speaker terminal

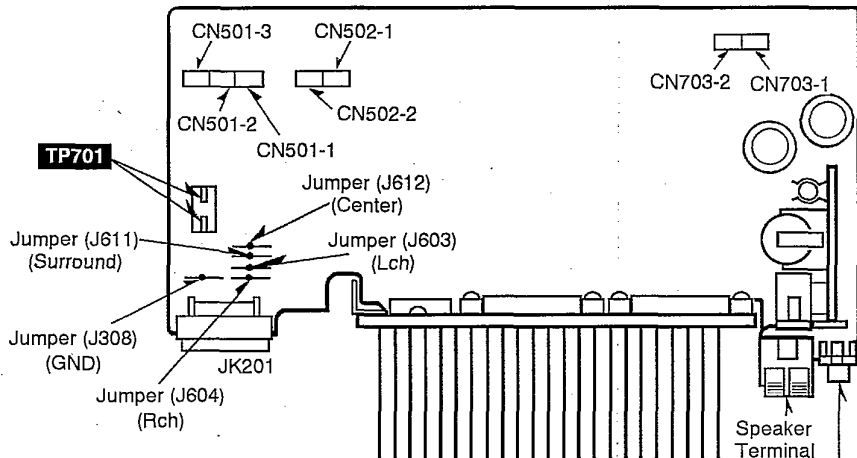


Fig. 1

Center speaker and surround speaker terminal

Schematic Diagram

	Page
A OPERATION CIRCUIT	14
B MAIN CIRCUIT	15, 16
C POWER TRANSFORMER CIRCUIT [For (E), (EB), (EG) and (GN) areas]	16
[For (GC) area]	13
D AC IN TERMINAL CIRCUIT [For (E), (EB) and (EG) areas]	16
D VOLTAGE SELECTOR CIRCUIT [For (GC) area]	13
E AC INPUT TERMINAL CIRCUIT [For (GC) area]	13

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

Notes:

- **S601** : Power "STANDBY ϕ /ON" switch (POWER STANDBY ϕ /ON)
- **S602** : Pro logic on/off switch (PRO LOGIC)
- **S603** : Test signal on/off switch (TEST)
- **S605** : Center mode select switch (CENTER MODE)
- **S607** : EQ SPACE/FLAT switch (EQ SPACE/FLAT)
- **S608** : V. BASS switch (V. BASS)
- **S701** : Voltage select switch ...for (GC) area only
- **VR401** : Microphone volume control (MIC VOL)
- **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

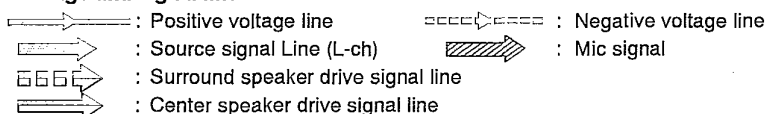
• Important safety notice:

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.

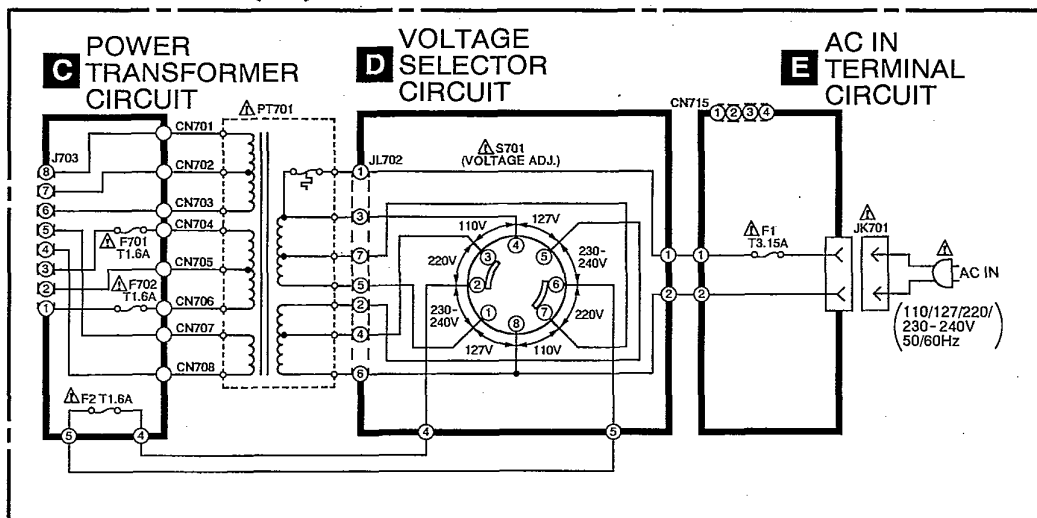
• **Caution!**

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.

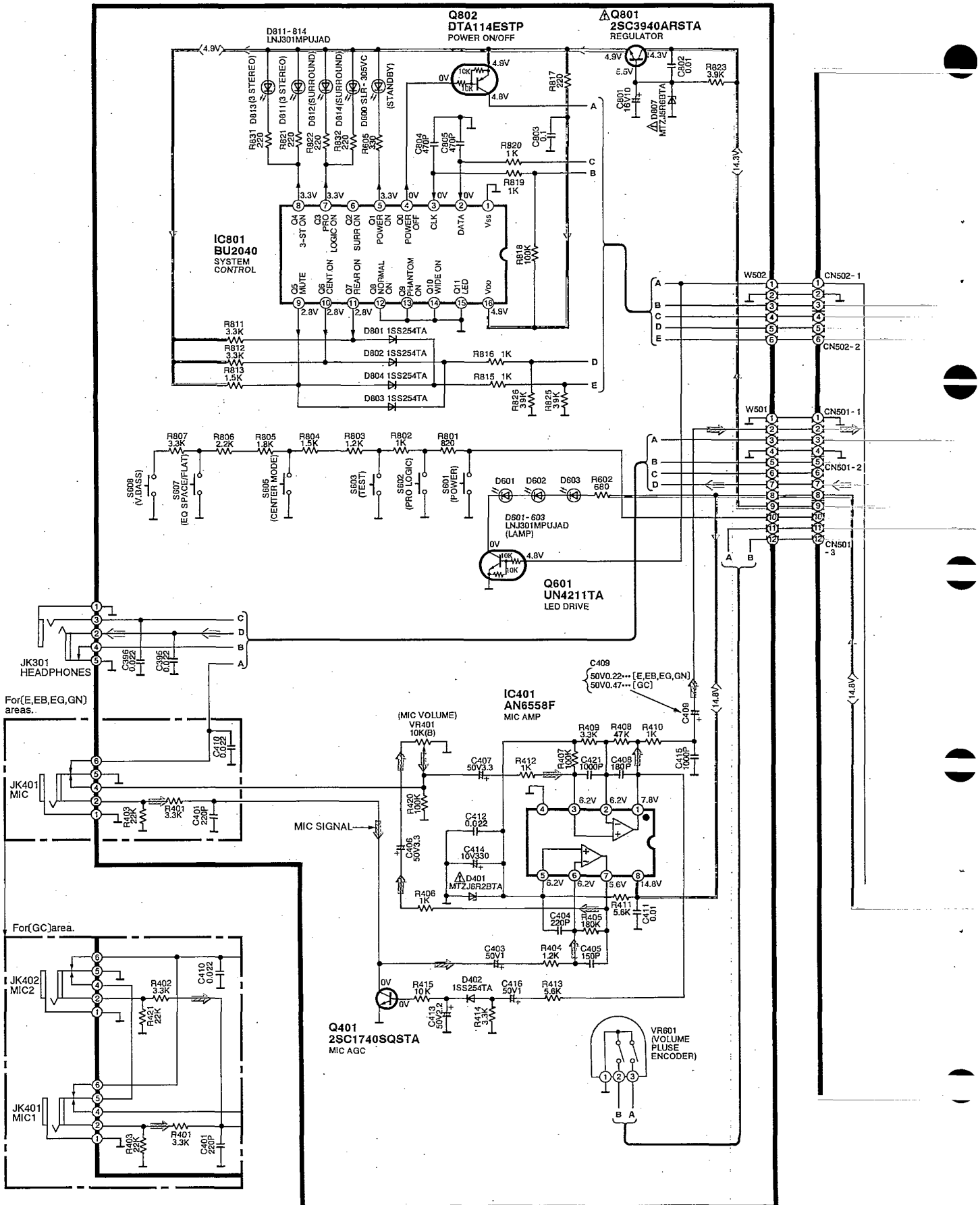
• **Voltage and signal line**



Power Source For[GC]area. (P.C.Board: on page 19)

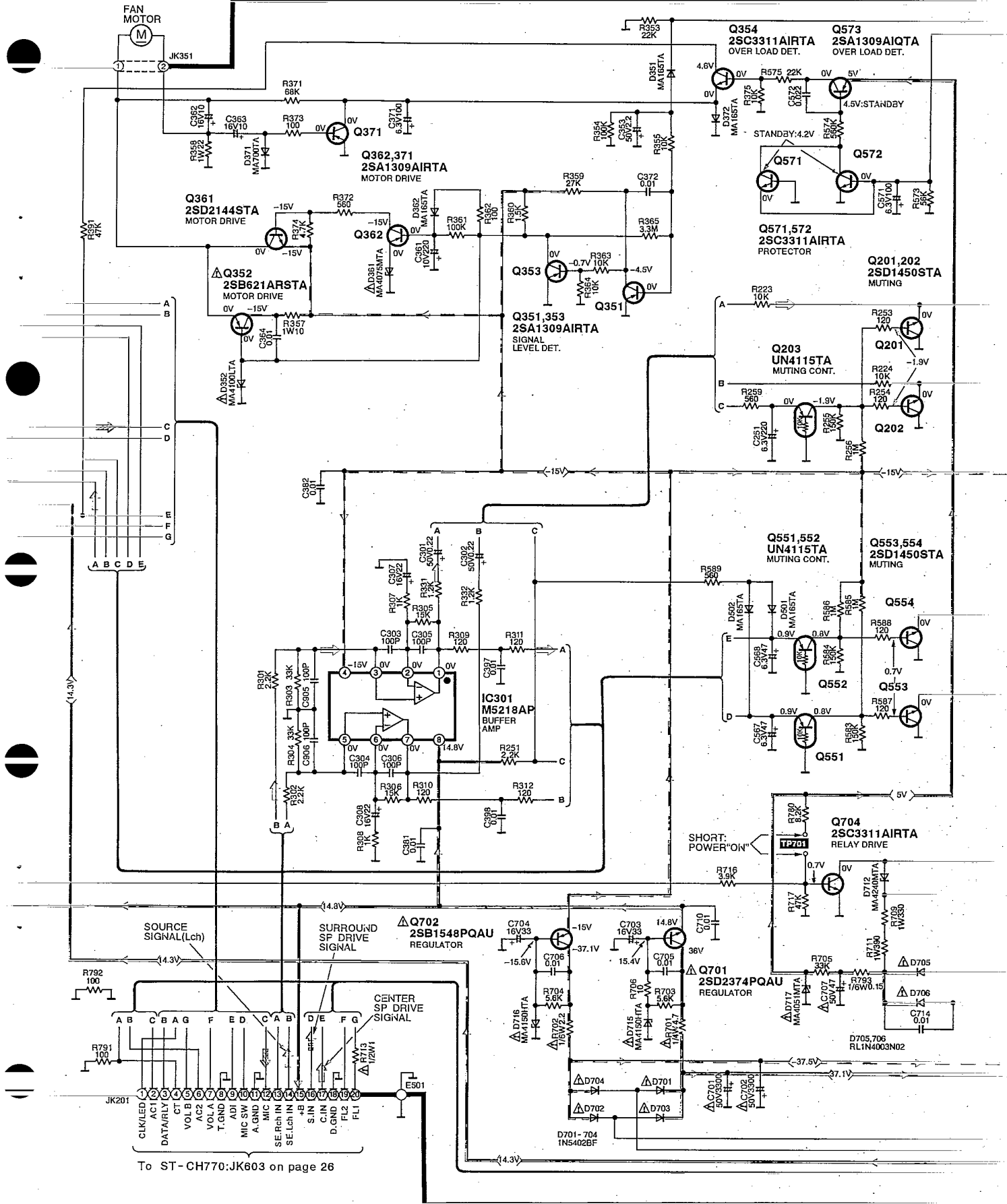


A OPERATION CIRCUIT (P.C.Board: on page 18)



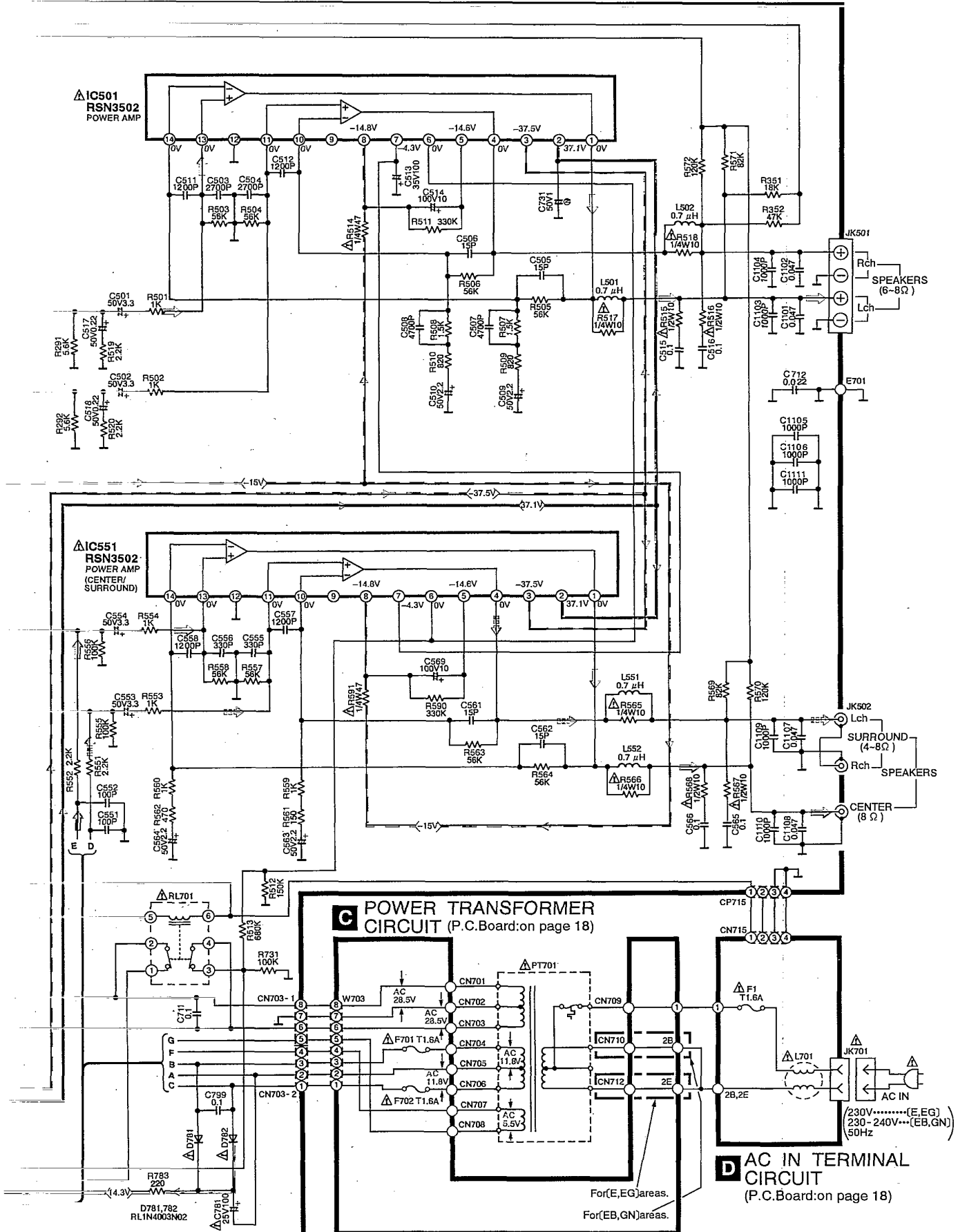
Surround speaker drive signal line, Center speaker drive signal line, Source signal Line (L-CH), Mic signal line, Positive voltage line, Negative voltage line

B MAIN CIRCUIT (P.C.Board: on page 17)



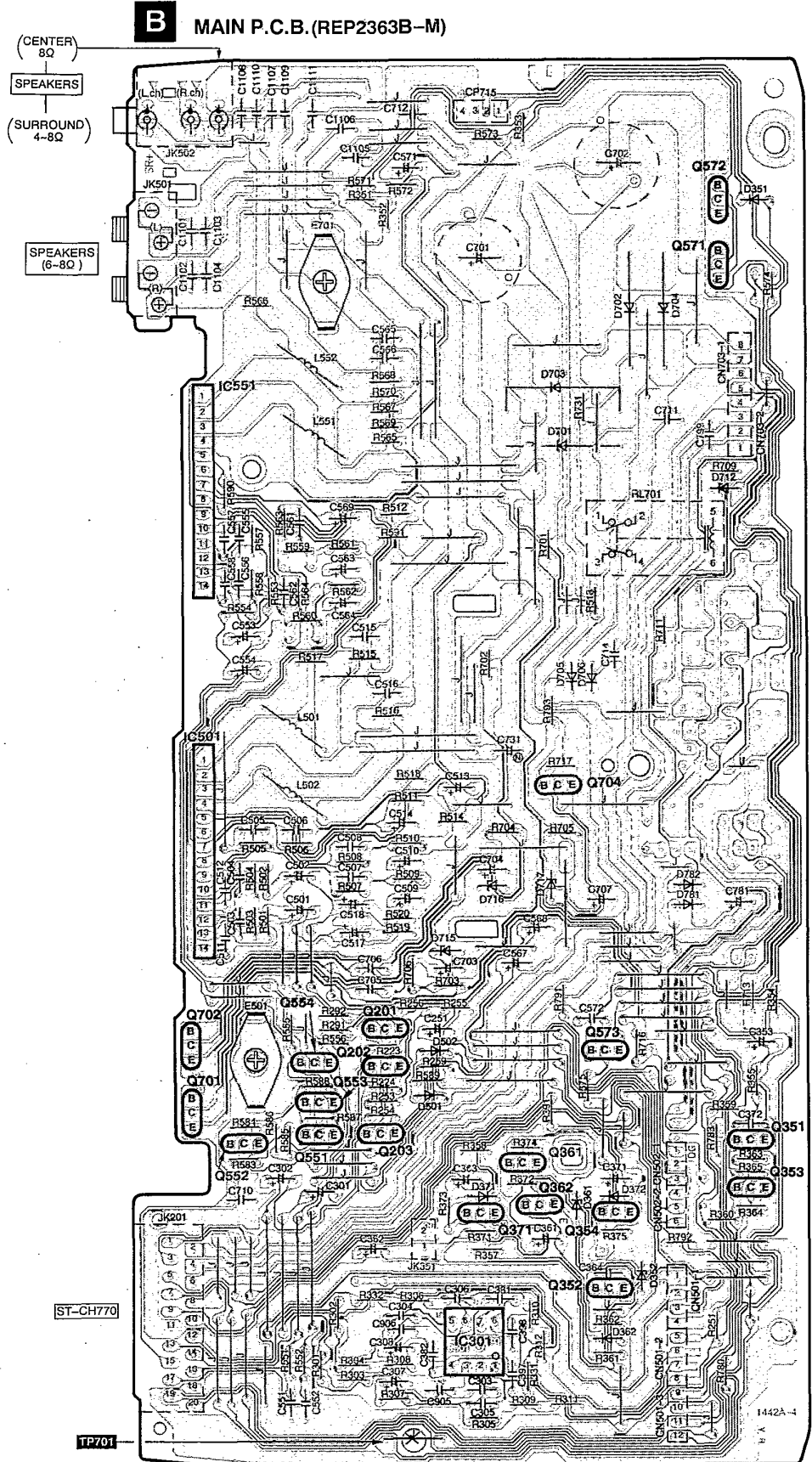
To ST-CH770:JK603 on page 26

: Surround speaker drive signal line
 : Center speaker drive signal line
 : Source signal Line (L-ch) : Positive voltage line : Negative voltage line

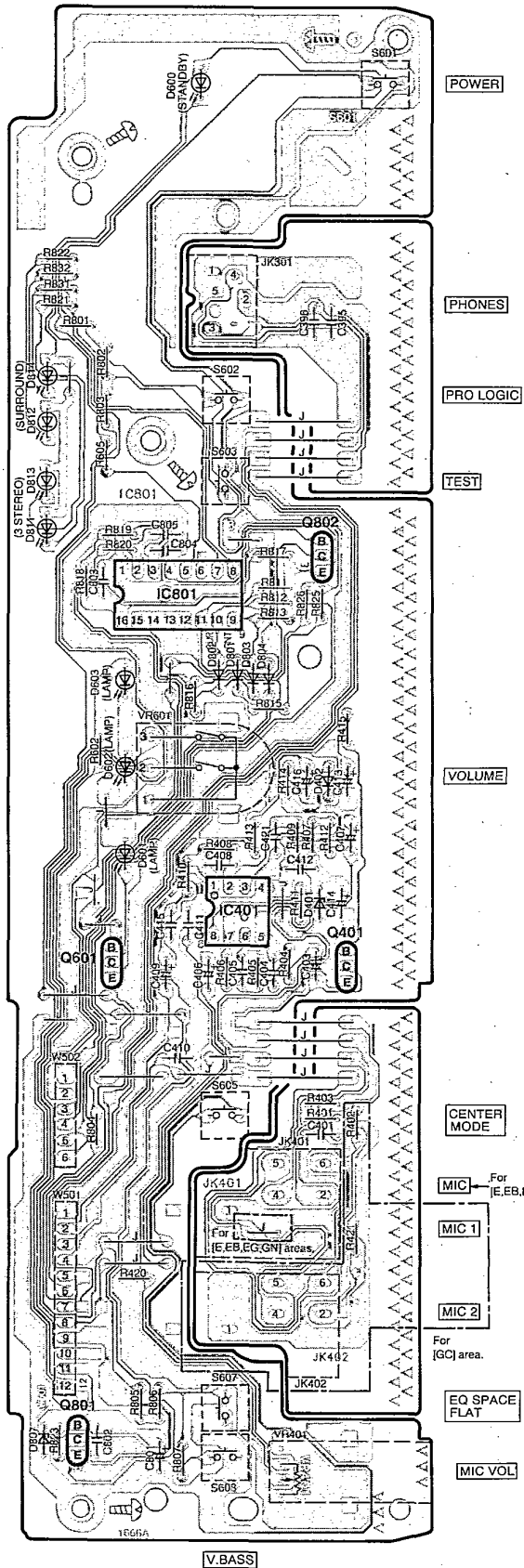


Printed Circuit Board Diagram

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

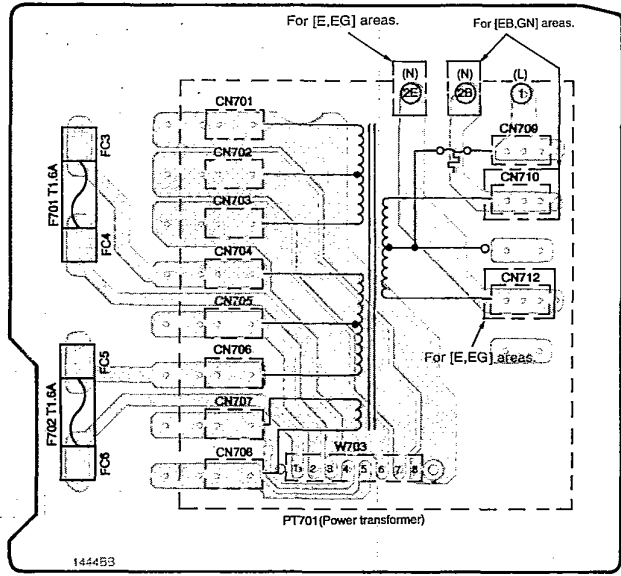


A OPERATION P.C.B.
 (REP2361A-S...[E,EB,EG,GN])
 (REP2361B-S...[GC])

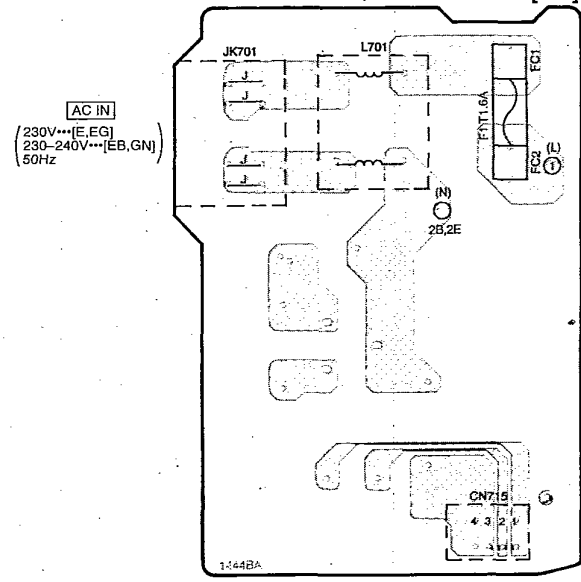


- POWER
- PHONES
- PRO LOGIC
- TEST
- VOLUME
- CENTER MODE
- MIC For [E,EB,EG,GN] areas.
- MIC 1
- MIC 2
- For [GC] area.
- EQ SPACE FLAT
- MIC VOL
- V.BASS

C POWER TRANSFORMER P.C.B.
 (REP2109D-P...[E,EG])
 (REP2109E-P...[EB])
 (REP2109F-P...[GN])

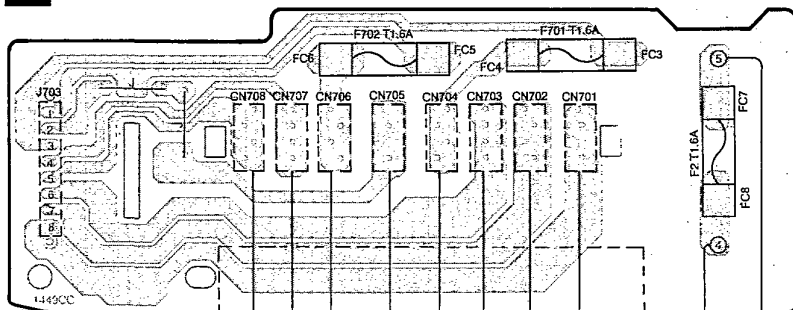


D AC IN TERMINAL P.C.B.
 (REP2109D-P...[E,EG])
 (REP2109E-P...[EB])
 (REP2109F-P...[GN])

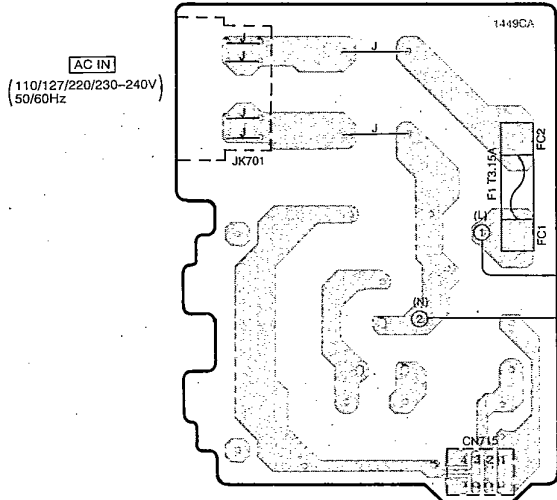


Power Source P.C.B. For [GC] area.

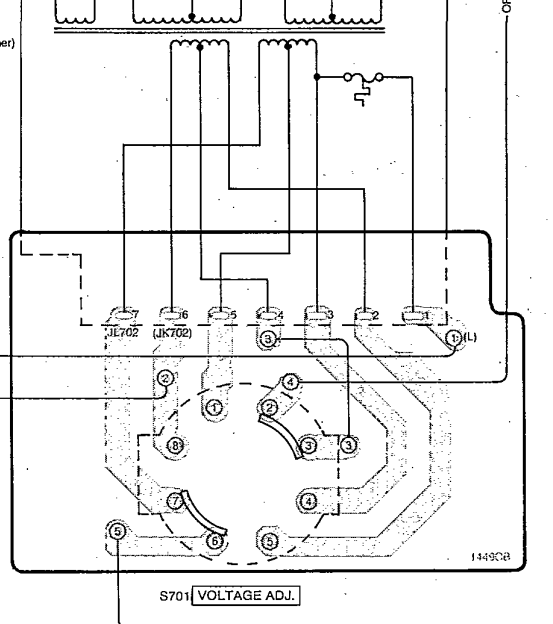
C POWER TRANSFORMER P.C.B. (REP2152B-P)



E AC IN TERMINAL P.C.B. (REP2152B-P)



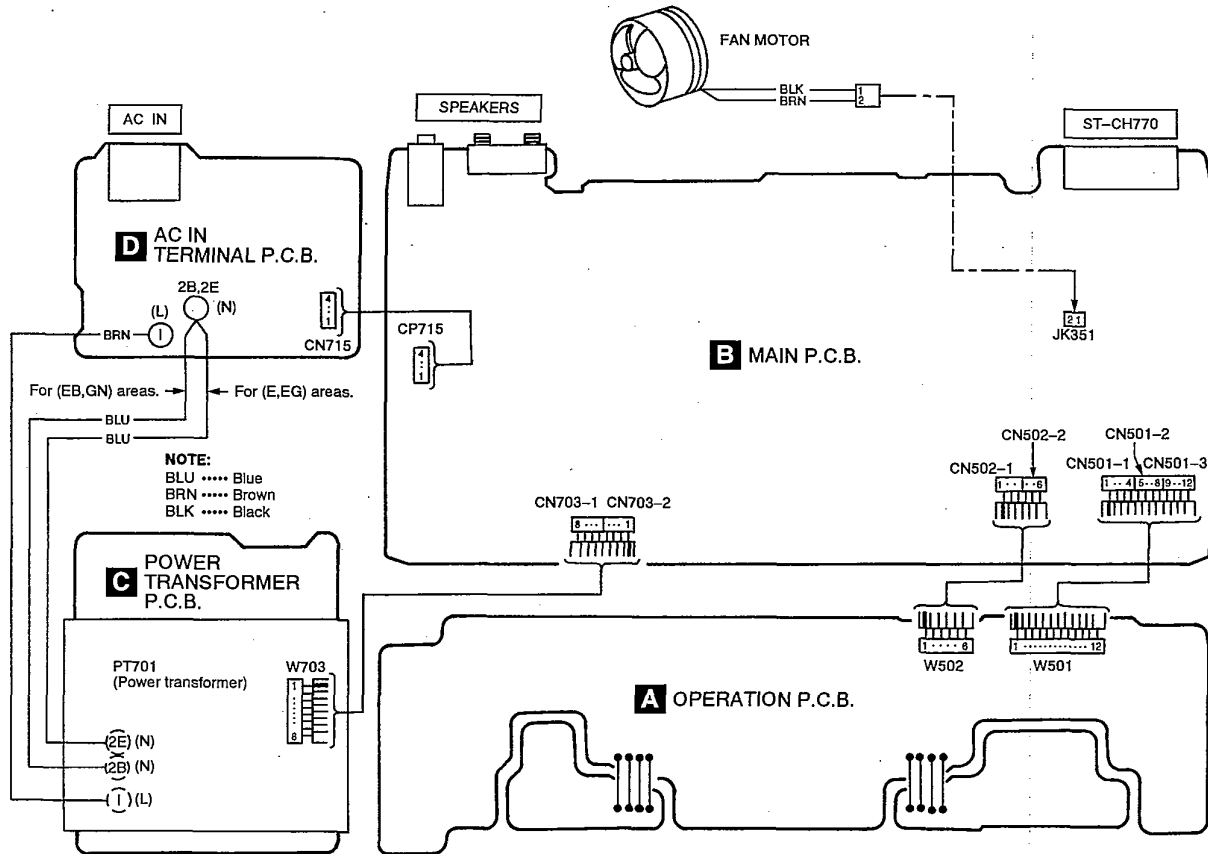
PT701
(Power transformer)



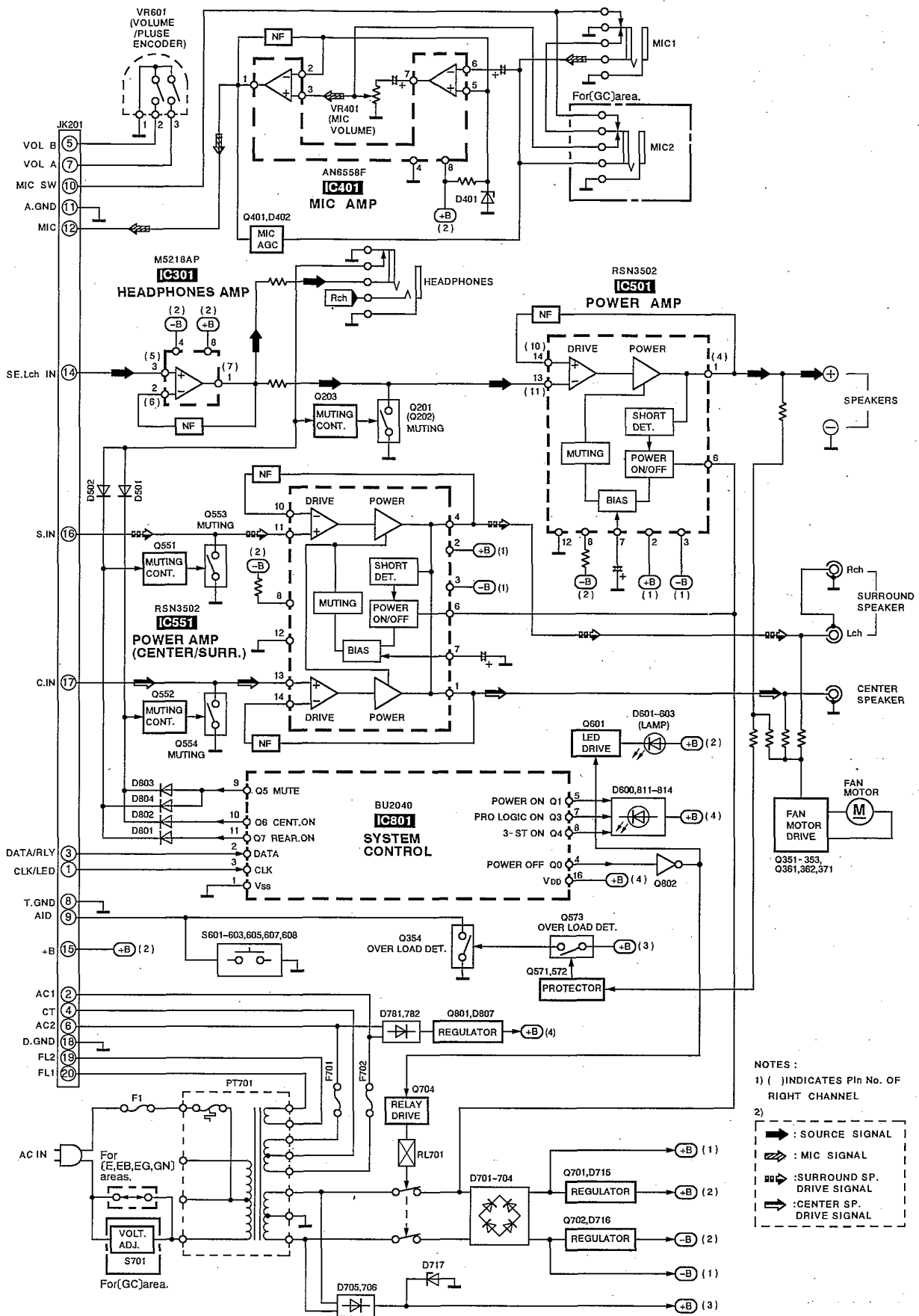
D VOLTAGE SELECTOR P.C.B. (REP2152B-P)

<p>M5218AP</p>	<p>RSN3502</p>	<p>AN6558F</p>	<p>BU2040</p>		<p>2SA1309AIQTA 2SA1309AIRTA 2SC3311AIRTA 2SD1450RTA UN4115 UN4211</p>
<p>2SB1548PQAU 2SD2374PQAU</p>	<p>2SB621A-R</p>	<p>2SC3940ARSTA</p>	<p>2SC1740SQ 2SD2144S DTA114ESTP</p>		<p>MA4100LTA MA4150M MA4240H</p>
<p>1N5402BF RL1N4003N02</p>	<p>MA4051MTA MA4075MTA</p>	<p>1SS254TA MA165 MA700TA</p>	<p>MTZJ5R6BTA MTZJ6R2BTA</p>	<p>SLR-305VC</p>	<p>LNJ301MPUJAD</p>

■ Wiring Connection Diagram



Block Diagram



- NOTES :
- 1) () INDICATES Pin No. OF RIGHT CHANNEL
 - 2)
 - ➔ : SOURCE SIGNAL
 - ⊕ : MIC SIGNAL
 - ⊕⊕ : SURROUND SP. DRIVE SIGNAL
 - ⊕⊕ : CENTER SP. DRIVE SIGNAL

■ 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 Assy: Supply period for three years from termination of production.

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

*<VRD>: indicates parts that are supplied by Video Recorder Division.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		D705, 706	RL1N4003N02	DIODE	Δ
				D712	MA4240H	DIODE	
				D715, 716	MA4150M	DIODE	Δ
IC301	M5218AP	IC, BUFFER AMP.		D717	MA4051MTA	DIODE	Δ
IC401	AN6558F	IC, MIC AMP.		D781, 782	RL1N4003N02	DIODE	Δ
IC501	RSN3502	IC, POWER AMP.	Δ	D801-804	1SS254TA	DIODE	
IC551	RSN3502	IC, POWER AMP.	Δ	D807	MTZJ5R6BTA	DIODE	Δ
IC801	BU2040	IC, SYSTEM CONTROL		D811-814	LNJ301MPUJAD	L. E. D	
		TRANSISTOR(S)				VARIABLE RESISTOR(S)	
Q201, 202	2SD1450RTA	TRANSISTOR		VR401	RRV11A01B14A	V. R, MIC VOLUME CONTROL	
Q203	UN4115	TRANSISTOR		VR601	EVQWQAF2524B	V. R, MAIN VOLUME CONTROL	
Q351	2SA1309AIRTA	TRANSISTOR				COIL(S)	
Q352	2SB621A-R	TRANSISTOR	Δ				
Q353	2SA1309AIRTA	TRANSISTOR		L501, 502	RLQYR73M	COIL	
Q354	2SC3311AIRTA	TRANSISTOR		L551, 552	RLQYR73M	COIL	
Q361	2SD2144S	TRANSISTOR		L701	RLQ2271M	COIL	Δ (E, EB, EG, GN)
Q362	2SA1309AIRTA	TRANSISTOR				FUSE(S)	
Q371	2SA1309AIRTA	TRANSISTOR					
Q401	2SC1740SQ	TRANSISTOR		F1	XBA2C16TBO	FUSE, 250V T1. 6A	Δ (E, EB, EG, GN)
Q551, 552	UN4115	TRANSISTOR		F1	XBA2C31TBO	FUSE, 250V T3. 15A	Δ (GC)
Q553, 554	2SD1450RTA	TRANSISTOR		F2	XBA2C16TBO	FUSE, 250V T1. 6A	Δ (GC)
Q571, 572	2SC3311AIRTA	TRANSISTOR		F701, 702	XBA2C16TBO	FUSE, 250V T1. 6A	Δ
Q573	2SA1309AIQTA	TRANSISTOR				SWITCH(ES)	
Q601	UN4211	TRANSISTOR		S601	EVQ21405R	SW, POWER	
Q701	2SD2374PQAU	TRANSISTOR	Δ	S602	EVQ21405R	SW, PRO LOGIC	
Q702	2SB1548PQAU	TRANSISTOR	Δ	S603	EVQ21405R	SW, TEST	
Q704	2SC3311AIRTA	TRANSISTOR		S605	EVQ21405R	SW, CENTER MODE	
Q801	2SC3940ARSTA	TRANSISTOR	Δ	S607	EVQ21405R	SW, EQ SPACE/FLAT	
Q802	DTA114ESTP	TRANSISTOR		S608	EVQ21405R	SW, V. BASS	
		DIODE(S)		S701	ESE37314	SW, VOLTAGE SELECTOR	Δ (GC)
D351	MA165	DIODE				CONNECTOR(S)	
D352	MA4100LTA	DIODE	Δ	CN501-1	RJS1A6604	CONNECTOR(4P)	
D361	MA4075MTA	DIODE	Δ	CN501-2	RJS1A6604	CONNECTOR(4P)	
D362	MA165	DIODE		CN501-3	RJS1A6604	CONNECTOR(4P)	
D371	MA700TA	DIODE		CN502-1	RJS1A6603	CONNECTOR(3P)	
D372	MA165	DIODE		CN502-2	RJS1A6603	CONNECTOR(3P)	
D401	MTZJ6R2BTA	DIODE	Δ	CN701-708	RJS1A1101T1	CONNECTOR(1P)	
D402	1SS254TA	DIODE		CN703-1	RJS1A6604	CONNECTOR(4P)	
D501, 502	MA165	DIODE					
D600	SLR-305VC	L. E. D.					
D601-603	LNJ301MPUJAD	L. E. D.					
D701-704	1N5402BF	DIODE	Δ				

Ref. No.	Part No.	Part Name & Description	Remarks				
CN703-2	RJS1A6604	CONNECTOR (4P)					
CN709	RJS1A1101T1	CONNECTOR (1P)	(E, EB, EG, GN)				
CN710	RJS1A1101T1	CONNECTOR (1P)	(EB, GN)				
CN712	RJS1A1101T1	CONNECTOR (1P)	(E, EG)				
CN715	RJU057W004	CONNECTOR (4P)					
CP715	RJT057W004-1	CONNECTOR (4P)					
		EARTH TERMINAL (S)					
E501	SNE1004-2	GND PLATE					
E701	SNE1004-2	GND PLATE					
		FUSE HOLDER (S)					
FC1-6	EYF52BC	FUSE HOLDER					
FC7, 8	EYF52BC	FUSE HOLDER	(GC)				
		TRANSFORMER (S)					
PT701	RTP1V5B005-W	POEWR TRANSFORMER	Δ (E, EB, EG, GN)				
PT701	RTP1V5E006-W	POEWR TRANSFORMER	Δ (GC)				
		RELAY					
RL701	RSY0013M-0	RELAY	Δ				
		JACK (S)					
JK201	RJT065K20	SYSTEM CONNECTOR (20P)					
JK301	RJJ37TN01-C	HEADPHONES JACK					
JK351	SJT3213	CONNECTOR (2P)					
JK401	RJJ65MA01	MIC JACK					
JK402	RJJ65MA01	MIC 1, 2 JACK	(GC)				
JK501	RJR0054M	SP TERMINAL (FRONT)					
JK502	RJH2301MS	SP TERMINAL (CENTER/SURROUND)					
JK701	SJS9236	AC INLET	Δ (E, EB, EG, GC)				
JK701	SJSD16-1	AC INLET	Δ (GN)				
JL702	SJS702-2	CONNECTOR (7P) (JK702)	(GC)				

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

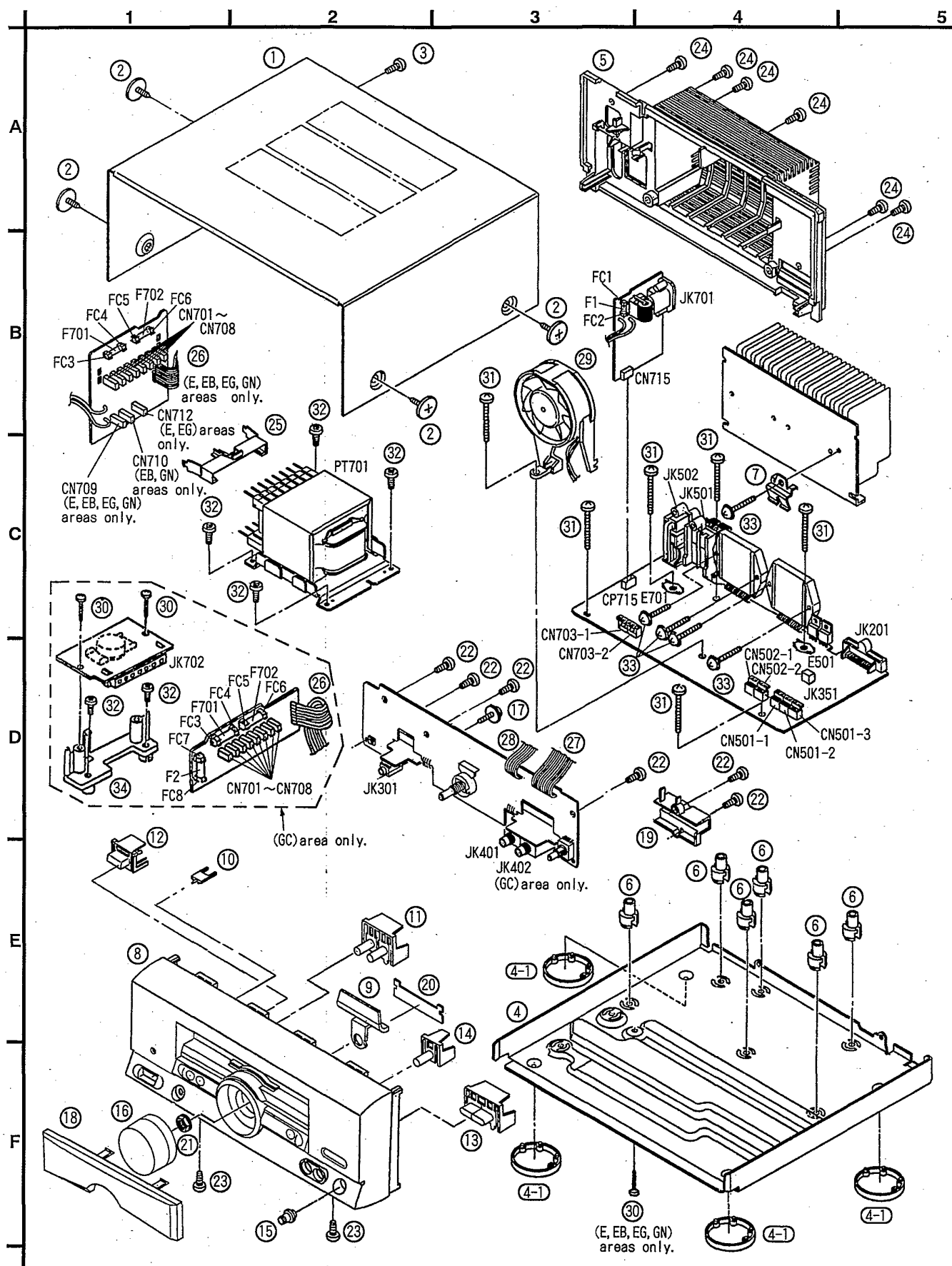
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R415	ERDS2TJ103	1/4W 10K	R731	ERDS2TJ104	1/4W 100K
R223, 224	ERDS2TJ103	1/4W 10K	R420	ERDS2TJ104	1/4W 100K	R780	ERDS2TJ822	1/4W 8.2K
R251	ERDS2TJ222	1/4W 2.2K	R421	ERDS2TJ223	1/4W 22K (GC)	R783	ERDS2TJ221	1/4W 220
R253, 254	ERDS2EJ121	1/4W 120	R501, 502	ERDS2TJ102	1/4W 1K	R791, 792	ERDS2TJ101	1/4W 100
R255	ERDS2TJ154	1/4W 150K	R503-506	ERDS2TJ563	1/4W 56K	R793	ERQ16NKWR15E	1/6W 0.15
R256	ERDS2TJ105T	1/4W 1M	R507, 508	ERDS2TJ152	1/4W 1.5K	R801	ERDS2TJ821	1/4W 820
R259	ERDS2TJ561	1/4W 560	R509, 510	ERDS2TJ821	1/4W 820	R802	ERDS2TJ102	1/4W 1K
R291, 292	ERDS2TJ562	1/4W 5.6K	R511	ERDS2TJ334	1/4W 330K	R803	ERDS2TJ122	1/4W 1.2K
R301, 302	ERDS2TJ222	1/4W 2.2K	R512	ERDS2TJ154	1/4W 150K	R804	ERDS2TJ152	1/4W 1.5K
R303, 304	ERDS2TJ333	1/4W 33K	R513	ERDS2TJ684	1/4W 680K	R805	ERDS2TJ182	1/4W 1.8K
R305, 306	ERDS2TJ153	1/4W 15K	R514 Δ	ERD25FJ470	1/4W 47	R806	ERDS2TJ222	1/4W 2.2K
R307, 308	ERDS2TJ102	1/4W 1K	R515, 516 Δ	ERDS1FVJ100T	1/2W 10	R807	ERDS2TJ332	1/4W 3.3K
R309-312	ERDS2EJ121	1/4W 120	R517, 518 Δ	ERD25FVJ100T	1/4W 10	R811, 812	ERDS2TJ332	1/4W 3.3K
R331, 332	ERDS2TJ122	1/4W 1.2K	R519, 520	ERDS2TJ222	1/4W 2.2K	R813	ERDS2TJ152	1/4W 1.5K
R351	ERDS2TJ183T	1/4W 18K	R551, 552	ERDS2TJ222	1/4W 2.2K	R815, 816	ERDS2TJ102	1/4W 1K
R352	ERDS2TJ473	1/4W 47K	R553, 554	ERDS2TJ102	1/4W 1K	R817	ERDS2TJ221	1/4W 220
R353	ERDS2TJ223	1/4W 22K	R555, 556	ERDS2TJ104	1/4W 100K	R818	ERDS2TJ104	1/4W 100K
R354	ERDS2TJ104	1/4W 100K	R557, 558	ERDS2TJ563	1/4W 56K	R819, 820	ERDS2TJ102	1/4W 1K
R355	ERDS2TJ103	1/4W 10K	R559, 560	ERDS2TJ102	1/4W 1K	R821, 822	ERDS2TJ221	1/4W 220
R357	ERG1SJ100E	1W 10	R561	ERDS2TJ151	1/4W 150	R823	ERDS2TJ392T	1/4W 3.9K
R358	ERG1SJ220E	1W 22	R562	ERDS2TJ471	1/4W 470	R825, 826	ERDS2TJ393	1/4W 39K
R359	ERDS2TJ273	1/4W 27K	R563, 564	ERDS2TJ563	1/4W 56K	R831, 832	ERDS2TJ221	1/4W 220
R360	ERDS2TJ152	1/4W 1.5K	R565, 566 Δ	ERD25FVJ100T	1/4W 10			CAPACITORS
R361	ERDS2TJ104	1/4W 100K	R567, 568 Δ	ERDS1FVJ100T	1/2W 10	C251	ECEA0JKA221B	6.3V 220U
R362	ERDS2TJ101	1/4W 100	R569	ERDS2TJ823T	1/4W 82K	C301, 302	ECEA1HKAR22B	50V 0.22U
R363, 364	ERDS2TJ103	1/4W 10K	R570	ERDS2TJ124T	1/4W 120K	C303-306	ECBT1H101KB5	50V 100P
R365	ERDS2TJ335T	1/4W 3.3M	R571	ERDS2TJ823T	1/4W 82K	C307, 308	ECEA1CKA220B	16V 22U
R371	ERDS2TJ683	1/4W 68K	R572	ERDS2TJ124T	1/4W 120K	C353	ECEA1HKA2R2B	50V 2.2U
R372	ERDS2TJ561	1/4W 560	R573	ERDS2TJ563	1/4W 56K	C361	ECEA1AKA221B	10V 220U
R373	ERDS2TJ101	1/4W 100	R574	ERDS2TJ564	1/4W 560K	C362, 363	RCE1CKA100BG	16V 10U
R374	ERDS2TJ472	1/4W 4.7K	R575	ERDS2TJ223	1/4W 22K	C364	ECBT1E103ZF	25V 0.01U
R375	ERDS2TJ103	1/4W 10K	R583, 584	ERDS2TJ154	1/4W 150K	C371	ECEA0JKA101B	6.3V 100U
R391	ERDS2TJ473	1/4W 47K	R585, 586	ERDS2TJ105T	1/4W 1M	C372	ECBT1E103ZF	25V 0.01U
R401	ERDS2TJ332	1/4W 3.3K	R587, 588	ERDS2EJ121	1/4W 120	C381, 382	ECBT1E103ZF	25V 0.01U
R402	ERDS2TJ332	1/4W 3.3K (GC)	R589	ERDS2TJ561	1/4W 560	C395, 396	ECBT1E223ZF	25V 0.022U
R403	ERDS2TJ223	1/4W 22K	R590	ERDS2TJ334	1/4W 330K	C397, 398	ECBT1E103ZF	25V 0.01U
R404	ERDS2TJ122	1/4W 1.2K	R591 Δ	ERD2FCVG470T	1/4W 47	C401	ECBT1H221KB5	50V 220P
R405	ERDS2TJ184T	1/4W 180K	R602	ERDS2TJ681	1/4W 680	C403	ECEA1HKA010B	50V 1U
R406	ERDS2TJ102	1/4W 1K	R605	ERDS2TJ331	1/4W 330	C404	ECBT1H221KB5	50V 220P
R407	ERDS2TJ104	1/4W 100K	R701 Δ	ERD2FCVJ47T	1/4W 4.7	C405	ECBT1H151KB5	50V 150P
R408	ERDS2TJ473	1/4W 47K	R702 Δ	ERQ16NKWR2ZE	1W 2.2	C406, 407	ECEA1HKA3R3B	50V 3.3U
R409	ERDS2TJ332	1/4W 3.3K	R703, 704	ERDS2TJ562	1/4W 5.6K	C408	ECBT1H181KB5	50V 180P
R410	ERDS2TJ102	1/4W 1K	R705	ERDS2TJ333	1/4W 33K	C409	ECEA1HKAR22B	50V 0.22U (E, EB, EG)
R411	ERDS2TJ562	1/4W 5.6K	R706	ERDS2TJ100	1/4W 10	C409	ECEA1HKAR22B	50V 0.22U (GN)
R412	ERDS2TJ102	1/4W 1K	R709	ERG1SJ331E	1W 330	C409	ECEA1HKAR47B	50V 0.47U (GC)
R413	ERDS2TJ562	1/4W 5.6K	R711	ERG1SJ391E	1W 390	C410	ECBT1E223ZF	25V 0.022U
R414	ERDS2TJ332	1/4W 3.3K	R713	ERDS1FVJ1ROT	1/2W 1.0	C411	ECBT1E103ZF	25V 0.01U
			R716	ERDS2TJ392T	1/4W 3.9K			
			R717	ERDS2TJ473	1/4W 47K			

Ref. No.	Part No.	Values & Remarks					
C412	ECBT1E223ZF	25V 0.022U					
C413	ECEA1HKA2R2B	50V 2.2U					
C414	ECEA1AU331	10V 330U					
C415	ECBT1H102KB5	50V 1000P					
C416	ECEA1HKA010B	50V 1U					
C421	ECBT1H102KB5	50V 1000P					
C501, 502	ECA1HAP3R3B	50V 3.3U					
C503, 504	ECBT1C272KR5	16V 2700P					
C505, 506	ECBT1H150J5	50V 15P					
C507, 508	ECBT1C472KR5	16V 4700P					
C509, 510	ECEA1HKA2R2B	50V 2.2U					
C511, 512	ECBT1C122KR5	16V 1200P					
C513	ECA1VM101B	35V 100U					
C514	ECA2AAP100B	100V 10U					
C515, 516	ECFR1H104ZF	50V 0.1U					
C517, 518	ECEA1HKAR22B	50V 0.22U					
C551, 552	ECBT1H101KB5	50V 100P					
C553, 554	RCE1HKA3R3BG	50V 3.3U					
C555, 556	ECBT1H331KB5	50V 330P					
C557, 558	ECBT1C122KR5	16V 1200P					
C561, 562	ECBT1H150J5	50V 15P					
C563, 564	ECEA1HKA2R2B	50V 2.2U					
C565, 566	ECFR1H104ZF	50V 0.1U					
C567, 568	ECEAOJKA470B	6.3V 47U					
C569	ECA2AAP100B	100V 10U					
C571	ECEAOJKA101B	6.3V 100U					
C572	ECBT1E223ZF	25V 0.022U					
C701, 702△	ECA1M332B	50V 3300U					
C703, 704	ECEA1CKA330B	16V 33U					
C705, 706	ECKR1H103ZF5	50V 0.01U					
C707 △	ECA1M470B	50V 47U					
C710	ECBT1E103ZF	25V 0.01U					
C711	ECQE1104KF3	100V 0.1U					
C712	ECBT1E223ZF	25V 0.022U					
C714	ECKR2H103ZU	500V 0.01U					
C731	ECEA1HKW010B	50V 1U					
C781 △	ECA1EM101B	25V 100U					
C799	ECBT1H104ZF5	50V 0.1U					
C801	ECEA1CKA100B	16V 10U					
C802	ECBT1E103ZF	25V 0.01U					
C803	ECBT1H104ZF5	50V 0.1U					
C804, 805	ECBT1H471KB5	50V 470P					
C905, 906	ECBT1H101KB5	50V 100P					
C1101, 1102	ECBT1H473ZF5	50V 0.047U					
C1103-1106	ECBT1H102KB5	50V 1000P					
C1107, 1108	ECBT1H473ZF5	50V 0.047U					
C1109-1111	ECBT1H102KB5	50V 1000P					

Note: The reference number SA represent the grease and tool used for this unit.

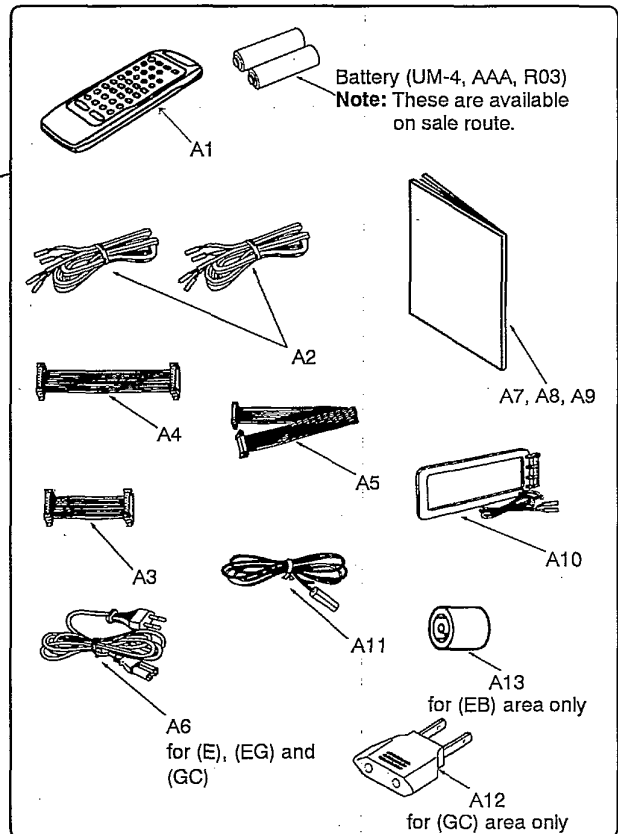
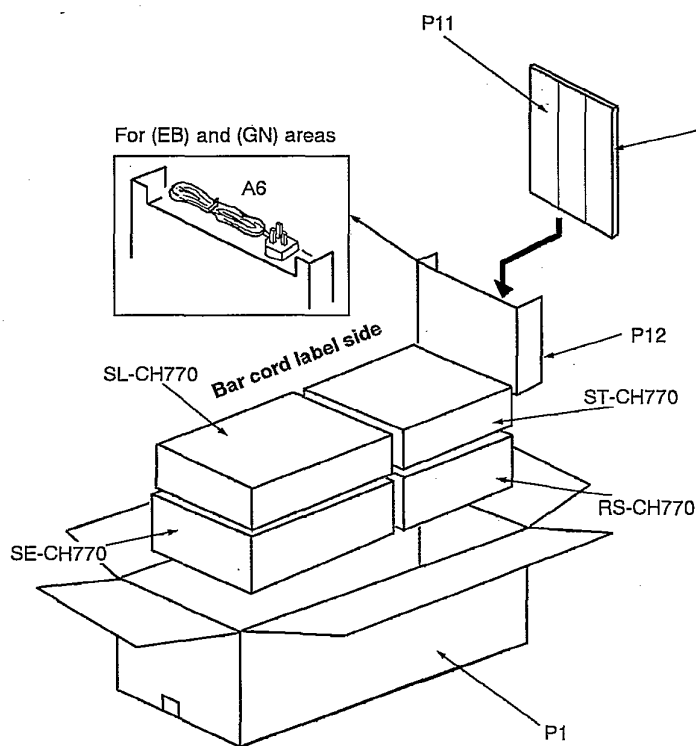
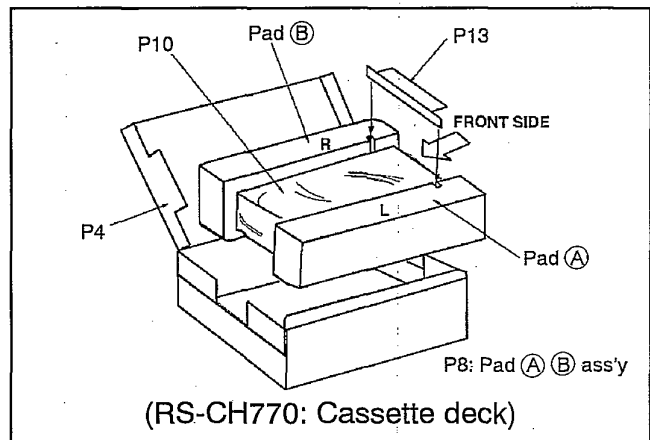
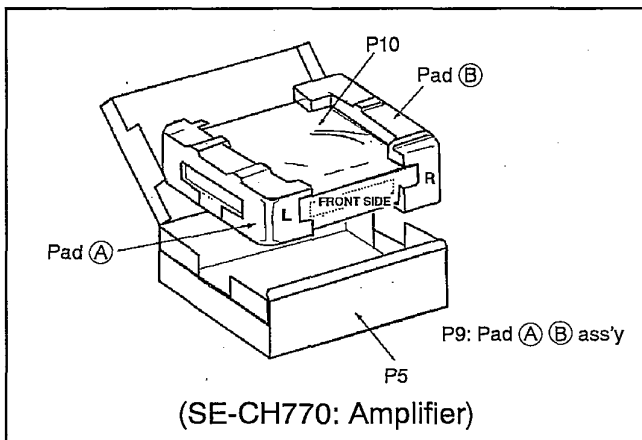
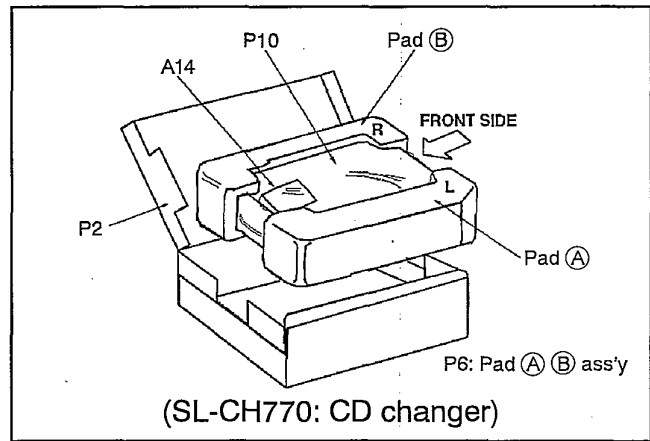
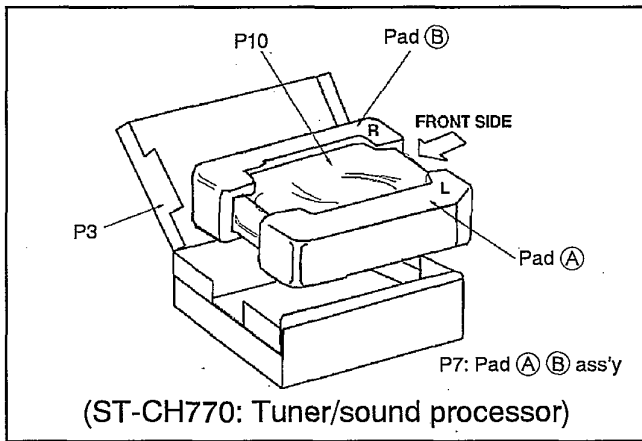
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS				PACKING MATERIALS	
1	RKMD202A-K	TOP CABINET		P1	RPG2975	PACKING CASE (SYSTEM)	(E, EB, EG)
2	RHD30007-K1	SCREW		P1	RPG2977	PACKING CASE (SYSTEM)	(GC)
3	XTBS3+10JFZ1	SCREW		P1	RPG2978	PACKING CASE (SYSTEM)	(GN)
4	RFKJCA7-N	BOTTOM CHASSIS ASS'Y	(E, EB, EG, GN)	P2	RPG2777	PACKING CASE (CD)	
4	RFKJECH730GC	BOTTOM CHASSIS ASS'Y	(GC)	P3	RPG2708	PACKING CASE (TUNER)	
4-1	RKA0011-3	FOOT		P4	RPG2707	PACKING CASE (DECK)	
5	RFKHECH770EK	REAR PANEL ASS'Y	(E, EG)	P5	RPG2706	PACKING CASE (AMPLIFIER)	
5	RFKHECH770EB	REAR PANEL ASS'Y	(EB, GN)	P6	RPNO951	PAD (CD)	
5	RFKHECH770GC	REAR PANEL ASS'Y	(GC)	P7	RPNO893	PAD (TUNER)	
6	RKQ0089	SPACER		P8	RPNO892-1	PAD (DECK)	
7	RMCO158	HOLDER		P9	RPNO891	PAD (AMPLIFIER)	
8	RFKGECH770EK	FRONT PANEL ASS'Y	(E, EB, EG, GN)	P10	SPP740	PROTECTION COVER	
8	RFKGECH770GC	FRONT PANEL ASS'Y	(GC)	P11	RPF0139	PROTECTION COVER	
9	RGL0343-Q	PANEL LIGHT		P12	RPQ0541	SPACER	
10	RGL0282-Q	PANEL LIGHT		P13	RPQ0664	SPACER	
11	RGU1433-K	BUTTON, DOLBY/TEST				ACCESSORIES	
12	RGU1224-K	BUTTON, POWER					
13	RGU1431-K	BUTTON, EQ/V. BASS		A1	RAK-CH202WH	REMOTE CONTROL TRANSMITTER	
14	RGU1434-K	BUTTON, CENTER MODE		A1-1	RKK0057-K	BATTERY COVER	
15	RGWO235-K	KNOB, MIC VOLUME		A2	REE0393	SPEAKER CORD (2000mm)	
16	RGWO253-K	KNOB, MAIN VOLUME		A3	REX0608	FLAT CABLE (SHORT)	
17	RHD26016	SCREW		A4	REX0660	FLAT CABLE (MEDIUM)	
18	RKWD465-Q	PANEL		A5	REX0661	FLAT CABLE (LONG)	
19	RMNO329	HOLDER		A6	RJA0019-2K	AC MAINS LEAD	△ (E, EG, GC) (SF)
20	RMVO121	PLATE		A6	RJA0049-K	AC MAINS LEAD	△ (EB)
21	SNE4021-1	NUT		A6	RJA0036-K	AC MAINS LEAD	△ (GN)
22	XTBS26+10J	SCREW		A7	RFKSECH770EK	INSTRUCTION MANUAL ASS'Y	(E)
23	XTBS3+8JFZ1	SCREW		A7	RFKSECH770EB	INSTRUCTION MANUAL ASS'Y	(EB)
24	XTB3+10JFZ	SCREW		A7	RQT3578-D	INSTRUCTION MANUAL	(EG)
25	RMNO191	HOLDER		A7	RQT3580-G	INSTRUCTION MANUAL	(GC)
26	RWJ1808130XX	FLAT CABLE (8P) (W703)	(E, EB, EG, GN)	A7	RQT3579-B	INSTRUCTION MANUAL	(GN)
26	RWJ1808100XX	FLAT CABLE (8P) (J703)	(GC)	A8	RQA0117	WARRANTY CARD	(E, EB, EG)
27	RWJ7012220QC	FLAT CABLE (12P) (W501)		A8	RQX7433ZA	WARRANTY CARD	(GN)
28	RWJ7006200QC	FLAT CABLE (6P) (W502)		A9	RQCB0169	SERVICE CENTER LIST	
29	REMO057	FAN		A10	RSA0012	AM LOOP ANTENNA	
30	XTB3+12JFZ	SCREW		A10-1	RMNO244	ANTENNA HOLDER	
31	XTB3+20JFZ	SCREW		A10-2	XTN3+12AFZ	SCREW	
32	XTB3+8JFZ	SCREW		A11	RSA0007	FM INDOOR ANTENNA	(E, EB, EG)
33	XTW3+15T	SCREW		A11	RSA0006	FM INDOOR ANTENNA	(GC, GN)
34	RMNO190-1	HOLDER	(GC)	A12	SJP5213-2	POWER PLUG ADAPTOR	(GC)
				A13	SJP9009	ATTACHMENT PLUG	(EB)
				A14	RQCA0490	INFORMATION	
						GREASE OR JIG/TOOL	
				SA1	RFKX0002	COMPOUND GREASE	

Cabinet Parts Location



■ Packaging

1023



● IC801 (MN64733)

Pin No.	Terminal Name	I/O	Function
1	PD	—	No used, open
2	PDPOL	—	No used (Connect to GND)
3	TXOUT	O	128 fs synchronization signal output for TXIN
4	VSS	—	Connect to GND
5	XO	O	No used, open
6	XI	I	Input for external clock signal
7	VDD	I	Power supply (+ 5V)
8	LP	O	L-ch positive-phase (PWM) detection signal output
9	LN	O	L-ch negative-phase (PWM) detection signal output
10	VSS	—	Connect to GND
11	NC	—	No used (Connect to GND)
12	NC	—	No used (Connect to GND)
13	VSS	—	Connect to GND
14	RN	O	R-ch negative-phase (PWM) detection signal output
15	RP	O	R-ch positive-phase (PWM) detection signal output
16	VDD	I	Power supply (+ 5V)
17	VSS	—	Connect to GND
18	CSEL	I	No used (Connect to GND)
19	VDD	I	Power supply (+ 5V)
20	BSEL	I	No used (Connect to GND)
21	ZFLRB	O	Output the internal detector signal for R-ch →

Pin No.	Terminal Name	I/O	Function
22	ZFLLB	O	Output the internal detector signal for L-ch →
23	NC	—	Connect to GND
24	ALLOW	O	No used, open
25	CL384	O	No used, open
26	LRPOL	I	Connect to VDD
27	DEO	I	Connect to GND
28	DEI	I	De-emphasis mode select signal input
29	VSS	—	Connect to GND
30	TEST1	I	No used (Connect to GND)
31	TEST2	I	No used (Connect to GND)
32	RSTB	I	Reset signal input
33	IE	—	No used (Connect to GND)
34	NC	—	No used (Connect to GND)
35	TP1	O	No used, open
36	TP2	O	No used, open
37	SEL2	I	No used (Connect to GND)
38	SEL1	I	No used (Connect to GND)
39	FSEL	I	Input the MASH clock mode select signal ("H": 64 fs)
40	TXIN	I	Digital audio interface signal input
41	SD	I	Serial data input
42	LR	I	L-ch/R-ch clock signal input
43	BCK	I	Serial data and bit clock signal input
44	PD2	O	Output the bit clock signal, 64 fs phase comparison signal

■ 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-resistant (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 column specify the areas. (Refer to the cover page for areas.)
 Parts without these indications can be used for all areas.
 *Remote Control Assy: Supply period for three years from termination of production.
 *MBI: Indicates in Remarks column parts that are supplied by MBI.
 *Warning: This product uses a laser diode. Refer to caution statements on page 2.
 *KÜTTUNG: Die Laserinheit nicht zerlegen.
 Die Laserinheit darf nur gegen eine vom Hersteller spezifizierte Einheit ausgetauscht werden.
 *The "(SP)" mark denotes the standard part.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q892, 893	ZS4933QR	TRANSISTOR	
						DIODE(S)	
IC11	LM2940T5	I. C. REGULATOR	Δ				
IC401	UP178042M14	I. C. SYSTEM CONTROL	[MB]	011-18	1D3-E	DIODE	Δ [MB]
IC651	RCM1C-270N	I. C. REMOTE SENSOR		019	MA4320MTA	DIODE	Δ
IC701	AN88053RE1	I. C. SERVO AMP	[MB]	021, 22	MA4082MTA	DIODE	Δ
IC702	MN62713RG1	I. C. SERVO PROCESSOR	[MB]	023, 24	MA4050MTA	DIODE	Δ
IC703	AN8395SE1	I. C. MOTOR DRIVE		025, 26	1S3254TA	DIODE	
IC781	TA72915A	I. C. MOTOR DRIVE		031, 32	1S3254TA	DIODE	
IC801	MN64733	I. C. DIGITAL FILTER		033, 34	MA4091-M	DIODE	Δ
IC802, 803	AN9640SE2	I. C. D/A CONVERTER INTERFACE		041, 42	1S3254TA	DIODE	
IC804-806	LM933M63	I. C. DIFFERENCE AMP.		051	MA4039MTA	DIODE	
IC871	DA4500N	I. C. HEADPHONES AMP.		0301-305	1S3254TA	DIODE	
IC891	DA4500FE1	I. C. L. P. FILTER AMP.	[MB]	0401-405	MA4056MTA	DIODE	Δ
		TRANSISTOR(S)		0601-606	1S3254TA	DIODE	
				0651	SLR-305LC	L. E. D.	
				0652	SLR-305DC	L. E. D.	
				0653	SLR-305MC	L. E. D.	
Q11	2SD2037EFTA	TRANSISTOR	Δ	0701	1S3254TA	DIODE	
Q12	2SR1240-P	TRANSISTOR	Δ	0801, 802	1S3254TA	DIODE	
Q13	2SD18620RTV6	TRANSISTOR	Δ	0831-838	1S3254TA	DIODE	
Q15	ZS4933QR	TRANSISTOR	Δ	0841-848	1S3254TA	DIODE	
Q16	ZS4123M6STV6	TRANSISTOR	Δ	0851	1D3-E	DIODE	[MB]
Q17	2SC1740SQ	TRANSISTOR	Δ	0861	1S3254TA	DIODE	
Q18	ZS4933QR	TRANSISTOR	Δ	0891	1S3254TA	DIODE	
Q19, 20	2SD1450RTA	TRANSISTOR					
Q21	DTA124ESTP	TRANSISTOR					
Q22	2SC1740SQ	TRANSISTOR				VARIABLE RESISTOR(S)	
Q23	2SD2037EFTA	TRANSISTOR	Δ				
Q31	2SD18620RTV6	TRANSISTOR	Δ	VR871	ENC1A018A15	V. R. HEADPHONES LEVEL	[MB]
Q32	2SR1240-P	TRANSISTOR	Δ			COMPONENT COMBINATION(S)	
Q33	ZSK982TPE2	TRANSISTOR	Δ				
Q34	2SJ148TPE2	TRANSISTOR	Δ				
Q41	DTA124ESTP	TRANSISTOR		Z831-834	EXCELDR35V	COMBINATION PART	
Q51, 52	2SC1740SQ	TRANSISTOR		Z851	EXCELDR35V	COMBINATION PART	
Q401, 402	2SD18620RTV6	TRANSISTOR	Δ				
Q751	ZS4933QR	TRANSISTOR				COIL(S)	
Q752	2SC1740SQ	TRANSISTOR					
Q801, 802	2SC1740SQ	TRANSISTOR		L841	RLQZNR3KL-D	COIL	[MB]
Q803, 804	2SD1450RTA	TRANSISTOR		L871-873	RLQZNR3KL-D	COIL	[MB]
Q805, 806	DTA124ESTP	TRANSISTOR		L874	RLQZNR7KL-D	COIL	
Q851	DT124EST	TRANSISTOR					
Q853	DTA114ESTP	TRANSISTOR				TRANSFORMER(S)	
Q871, 872	2SD1450RTA	TRANSISTOR					
Q891	2SC1740SQ	TRANSISTOR		T1	RTP1X4B020	POWER TRANSFORMER	Δ [MB]

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		OSCILLATOR (S)		CN402	RJT029W06VT	CONNECTOR (6P)	
				CN411, 412	RJU076W20M	SOCKET (20P)	
				CN611, 612	RJT076W20M	CONNECTOR (20P)	[MB]
X401	RSXY4M23M01T	OSCILLATOR (4. 23MHz)		CN701	RJS12Q9ZA	SOCKET (12P)	[MB]
X701	RSXZ16M9M01T	OSCILLATOR (16. 9MHz)		CN702	RJS1A6723-1Q	SOCKET (23P)	
X801	RSXA33M8J01T	OSCILLATOR (33. 8MHz)	[MB]	CN703	RJT029W06VT	CONNECTOR (6P)	
		DISPLAY TUBE		CN781	RJP6G17ZA	PLUG (6P)	
				CN871	RJS2A2107T	SOCKET (7P)	[MB]
FL601	RSL0188-F	DISPLAY TUBE	[MB]	CN891	RJS2A2107T	SOCKET (7P)	[MB]
		SWITCH (ES)				EARTH PLATE	
				GND871	RMC0184	EARTH PLATE	[MB]
S601	EVQ21405R	SW, 8				JACK (S)	
S602	EVQ21405R	SW, 3					
S603	EVQ21405R	SW, RECALL		JK1	SJS9236	AC INLET	△
S604	EVQ21405R	SW, F. SKIP		JK301	TOTX174-A	OPTICAL OUT	
S605	EVQ21405R	SW, STOP		JK801	RJH3201N	LINE OUT	
S606	EVQ21405R	SW, 9		JK871	QJA0455ZC-A	HEADPHONES JACK	
S607	EVQ21405R	SW, 4					
S608	EVQ21405R	SW, RANDOM					
S609	EVQ21405R	SW, R. SKIP					
S610	EVQ21405R	SW, PAUSE					
S611	EVQ21405R	SW, 0					
S612	EVQ21405R	SW, 5					
S613	EVQ21405R	SW, REPEAT					
S614	EVQ21405R	SW, R. SEARCH					
S615	EVQ21405R	SW, F. SEARCH					
S616	EVQ21405R	SW, 6					
S617	EVQ21405R	SW, 1					
S618	EVQ21405R	SW, PROGRAM					
S619	EVQ21405R	SW, TIME FADE					
S620	EVQ21405R	SW, AUTO CUE					
S621	EVQ21405R	SW, 7					
S622	EVQ21405R	SW, 2					
S623	EVQ21405R	SW, CLEAR					
S624	EVQ21405R	SW, SIDE A/B					
S625	EVQ21405R	SW, TIME MODE					
S626	EVQ21405R	SW, OPEN/CLOSE					
S627	EVQ21405R	SW, >10					
S628	EVQ21405R	SW, PLAY					
S629	EVQ21405R	SW, TAPE LENGTH					
S630	EVQ21405R	SW, PEAK SEARCH					
S651	EVQ21405R	SW, POWER					
S781	RSH1A005	SW, TRAY OPEN DET.					
S782	RSH1A005	SW, TRAY CLOSE DET.					
		CONNECTOR (S)					
CN11	RJS1A6606	SOCKET (6P)					
CN21	RJS1A6606	SOCKET (6P)					
CN401	RJS1A6823	SOCKET (23P)					

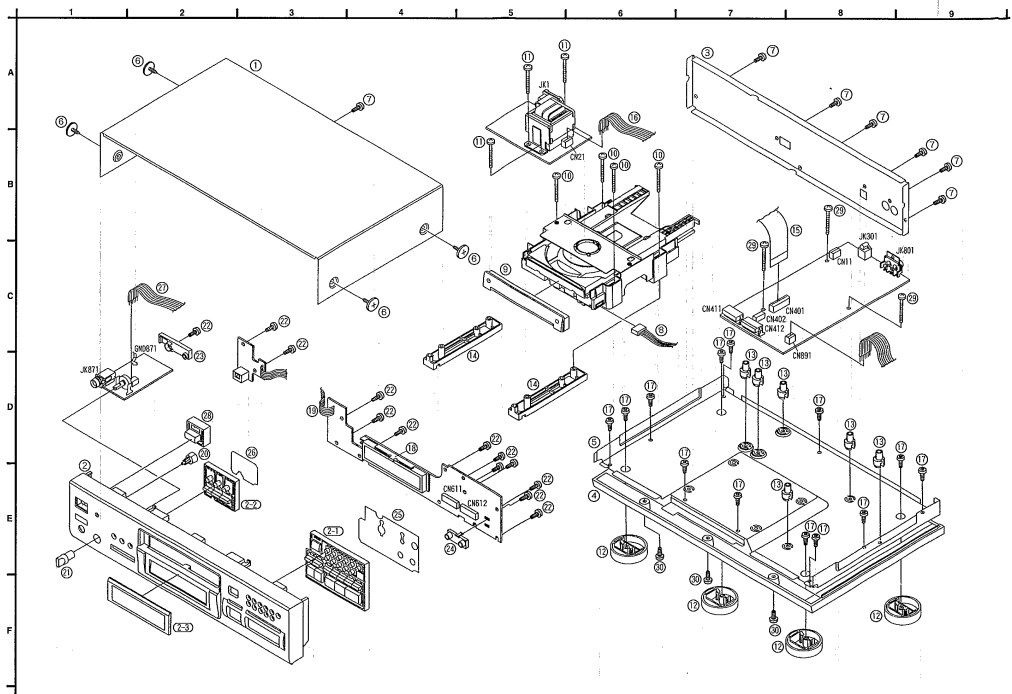
Notes : * Capacity values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R727	ERDS2TJ153	1/4W 15K	O17, 18	ECEAIHJ101	50V 100U
			R728	ERDS2TJ822	1/4W 8.2K	C20, 21	ECA1EPXS101B	25V 100U
			R731	ERDS2TJ223	1/4W 22K	C22	ECEAIJU331	10V 330U
R1	ERQ16NKR15E	1W 0.15	R732	ERDS2TJ183T	1/4W 18K	C23, 24	ECEAOJKA101B	6.3V 100U
R12, 13	ERDS2TJ222	1/4W 2.2K	R733	ERDS2TJ822	1/4W 8.2K	C31, 32	ECBT1H102KB5	50V 1000P
R16	ERDS2TJ680T	1/4W 68	R735, 736	ERDS2TJ101	1/4W 100	C33, 34	ECA1EPXS101B	25V 100U
R17	ERDS2TJ471	1/4W 470	R745	ERDS2TJ155	1/4W 1.5M	C51	ECEA1AKA220B	10V 22U
R18	ERDS2TJ473	1/4W 47K	R751	ERDS2TJ681	1/4W 680	C304	ECEAOJKA101B	6.3V 100U
R19	ERDS2TJ472	1/4W 4.7K	R752, 753	ERDS2TJ392T	1/4W 3.9K	C311	ECFR1E104ZF5	25V 0.1U
R20	ERDS2TJ223	1/4W 22K	R754	ERDS2TJ103	1/4W 10K	C401	ECFR1E104ZF5	25V 0.1U
R21, 22	ERDS2TJ102	1/4W 1K	R761, 762	ERDS2TJ103	1/4W 10K	C402	ECEAOJU102	6.3V 1000U
R23	ERDS2TJ103	1/4W 10K	R763	ERDS2TJ823T	1/4W 82K	C404	ECFR1E104ZF5	25V 0.1U
R24-27	ERDS2TJ1R0	1/4W 1.0	R764	ERDS2TJ393	1/4W 39K	C405	ECEAOJKA101B	6.3V 100U
R28, 29	ERDS2TJ103	1/4W 10K	R765	ERDS2TJ224T	1/4W 220K	C451	ECBT1H101KB5	50V 100P
R30	ERDS2TJ223	1/4W 22K	R766	ERDS2TJ104	1/4W 100K	C703	ECEAOJKA101I	6.3V 100U
R31, 32	ERDS2TJ471	1/4W 470	R772, 773	ERDS2TJ220T	1/4W 22	C704	ECFR1E104ZF5	25V 0.1U
R33, 34	ERDS2TJ105T	1/4W 1M	R775, 776	ERDS2TJ392T	1/4W 3.9K	C705	ECEA1HKA010I	50V 1U
R41	ERDS2TJ222	1/4W 2.2K	R777	ERDS2TJ102	1/4W 1K	C706	ECBT1H101KB5	50V 100P
R51	ERDS2TJ331	1/4W 330	R801-804	ERDAS3G331T	1/4W 330	C707	ECFR1C273KR	16V 0.027U
R52	ERDS2TJ272T	1/4W 2.7K	R805-808	ERDAS3G332T	1/4W 3.3K	C708	ECBT1C472MR5	16V 4700P
R53, 54	ERDS2TJ472	1/4W 4.7K	R809-822	ERDAS3G103T	1/4W 10K	C709	ECFR1C473KR	16V 0.047U
R308	ERDS2TJ470	1/4W 47	R823, 824	ERDAS3G471T	1/4W 470	C714	ECEAOJKA101I	6.3V 100U
R310	ERDS2TJ102	1/4W 1K	R825, 826	ERDS2TJ102	1/4W 1K	C716	ECBT1H561KB5	50V 560P
R311	ERDS2TJ822	1/4W 8.2K	R827, 828	ERDS2TJ330	1/4W 33	C717	ECFR1E104ZF5	25V 0.1U
R312	ERDS2TJ331	1/4W 330	R829, 830	ERDAS3G331T	1/4W 330	C718	RCQ52C0224J9	63V 0.22U
R401	ERDS2TJ102	1/4W 1K	R831, 832	ERDAS3G473T	1/4W 47K	C721, 722	ECBT1H270J5	50V 27P
R403, 404	ERDS2TJ103	1/4W 10K	R833, 834	ERDS2TJ333	1/4W 33K	C723	ECEAOJKA221I	6.3V 220U
R405, 406	ERDS2TJ471	1/4W 470	R835-838	ERDS2TJ470	1/4W 47	C724	ECFR1E104ZF5	25V 0.1U
R407	ERDS2TJ101	1/4W 100	R841, 842	ERDS2TJ103	1/4W 10K	C725, 726	ECBT1H102KB5	50V 1000P
R408-412	ERDS2TJ103	1/4W 10K	R851	ERDS2TJ101	1/4W 100	C727, 728	ECEA1HKA010I	50V 1U
R414, 415	ERDS2TJ103	1/4W 10K	R852	ERDS2TJ222	1/4W 2.2K	C730	ECFR1E104ZF5	25V 0.1U
R451	ERDS2TJ471	1/4W 470	R861, 862	ERDS2TJ563	1/4W 56K	C731, 732	ECEAOJKA221I	6.3V 220U
R601, 602	ERDS2TJ100	1/4W 10	R871, 872	ERDS2TJ473	1/4W 47K	C733	ECFR1E104ZF5	25V 0.1U
R651	ERDS2TJ221	1/4W 220	R873-876	ERDS2TJ104	1/4W 100K	C734	ECEA1AKA221I	10V 220U
R652	ERDS2TJ331	1/4W 330	R885, 886	ERDS2TJ222	1/4W 2.2K	C735-737	ECBT1E223ZF	25V 0.022U
R653	ERDS2TJ151	1/4W 150	R887, 888	ERDS2TJ101	1/4W 100	C738	ECFR1C183KR	16V 0.018U
R701	ERDS2TJ561	1/4W 560	R889, 890	ERDS2TJ473	1/4W 47K	C739	ECBT1C152MR5	16V 1500P
R703	ERDS2TJ823T	1/4W 82K	R891, 892	ERDS2TJ102	1/4W 1K	C740	ECBT1C272MR5	16V 2700P
R707, 708	ERDS2TJ334	1/4W 330K	R897	ERDS2TJ103	1/4W 10K	C742	ECFR1C273KR	16V 0.027U
R709	ERDS2TJ683	1/4W 68K	R898	ERDS2TJ822	1/4W 8.2K	C743	ECBT1E223ZF	25V 0.022U
R711	ERDS2TJ154	1/4W 150K				C744	ECBT1C822MS5	16V 8200P
R712	ERDS2TJ221	1/4W 220			CAPACITORS	C747, 748	ECBT1C103NS5	16V 0.01U
R717, 718	ERDS2TJ102	1/4W 1K				C751	ECEA1CKA100I	16V 10U
R721	ERDS2TJ101	1/4W 100	C1	ECFTD103KXL	50V 0.01U	C752	ECFR1E104ZF5	25V 0.1U
R722	ERDS2TJ683	1/4W 68K	C11 Δ	ECA1CM222B	16V 2200U	C765	ECBT1H331KB5	50V 330P
R723	ERDS2TJ183T	1/4W 18K	C12	ECBT1C103NS5	16V 0.01U	C766	ECBT1H391KB5	50V 390P
R724	ERDS2TJ393	1/4W 39K	C13	ECEA1AKA330B	10V 33U	C767	ECEA1HKN010I	50V 1U
R725	ERDS2TJ472	1/4W 4.7K	C14	ECEAOJKA470B	6.3V 47U	C768	ECFR1E682KR	25V 6800P
R726	ERDS2TJ474	1/4W 470K	C15, 16 Δ	ECA1EPXS471B	25V 470U	C769	ECBT1C222MR5	16V 2200P

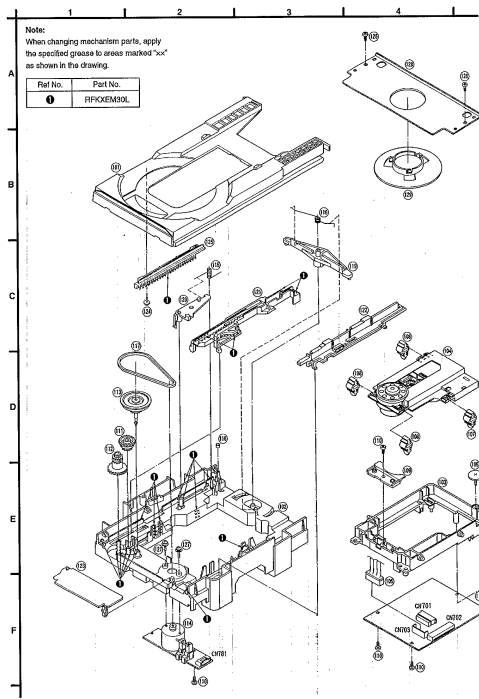
Ref. No.	Part No.	Values & Remarks
C772-775	DCR1000025	25V 0.1U
C776	DCR1000025	50V 10P
C777	DCR1000025	50V 10P
C780	DCR1000025	50V 100P
C811-812	DCR1000025	50V 100P
C813-814	DCR1000025	50V 100P
C815-816	DCR1000025	50V 100P
C817-818	DCR1000025	10V 47U
C819-820	DCR1000025	50V 100P
C821	DCR1000025	25V 0.1U
C831-832	DCR1000025	10V 100P
C833	DCR1000025	10V 0.01U
C840-842	DCR1000025	10V 0.01U
C843-844	DCR1000025	50V 10P
C845	DCR1000025	0.5V 100U
C846	DCR1000025	25V 0.1U
C847	DCR1000025	0.5V 100U
C848	DCR1000025	25V 0.1U
C849	DCR1000025	50V 100P
C851-852	DCR1000025	25V 100U
C853	DCR1000025	10V 100U
C857	DCR1000025	10V 0.01U
C858	DCR1000025	10V 0.01U
C861	DCR1000025	50V 0.01U
C862	DCR1000025	50V 100P
C863	DCR1000025	25V 0.1U
C864	DCR1000025	50V 100P
C865	DCR1000025	25V 0.1U
C866-869	DCR1000025	50V 22P
C871-872	DCR1000025	25V 3.3U
C873-874	DCR1000025	50V 0.01U
C875-879	DCR1000025	10V 0.01U
C881-882	DCR1000025	10V 0.01U
C882	DCR1000025	10V 0.01U
C895	DCR1000025	10V 0.01U

Ref. No.	Part No.	Part Name & Description	Remarks
CABINET PARTS			
1	00001025-K	CABINET	(001)
2	00004022-K	FRONT PANEL ASS'Y	(001)
2-1	00014450-K	MAIN BUTTON	(001)
2-2	00014460-K	SUB BUTTON	(001)
2-3	00003550-B	PL PANEL	(001)
3	00001450-B	REAR PANEL	(001) (0.01U)
3	00001450-B	REAR PANEL ASS'Y	(001) (0.01U)
4	00000025-K	BOTTOM BASE	(001)
5	00001719-1	BOTTOM CHASSIS	(001)
6	00000025-K	SCREW	(001)
7	00000025-K	SCREW	(001)
8	00000025-K	SCREW	(001)
9	00000025-K	SCREW	(001)
10	00000025-K	SCREW	(001)
11	00000025-K	SCREW	(001)
12	00000025-K	SCREW	(001)
13	00000025-K	SCREW	(001)
14	00000025-K	SCREW	(001)
15	00000025-K	SCREW	(001)
16	00000025-K	SCREW	(001)
17	00000025-K	SCREW	(001)
18	00000025-K	SCREW	(001)
19	00000025-K	SCREW	(001)
20	00000025-K	SCREW	(001)
21	00000025-K	SCREW	(001)
22	00000025-K	SCREW	(001)
23	00000025-K	SCREW	(001)
24	00000025-K	SCREW	(001)
25	00000025-K	SCREW	(001)
26	00000025-K	SCREW	(001)
27	00000025-K	SCREW	(001)
28	00000025-K	SCREW	(001)
29	00000025-K	SCREW	(001)
30	00000025-K	SCREW	(001)

■ Cabinet Parts Location



■ Loading Unit Parts Location



Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
LOADING UNIT PARTS				GREASE OR JIG/TOOL			
001	R00150-K	TRAY	(00)	0A1	R00000L	GREASE	
002	R00150-KA06	RECUMISH CIRCLES ASS'Y	(00)	0A2	S00100AC	TEST DISC	
003	R00170-W1	WHL. CASSIS	(00)				
004	R001700-1	FEEDERSE UNIT	(00)				
005	R00207L	SOLE ASS'Y	(00)				
006	R0030047	SCREW	(00)				
007	R003037-X	HAMPING RUBBER	(00)				
008	R003037-Q	HAMPING RUBBER	(00)				
009	R003038-W	STOPPER	(00)				
010	R003043-03	SCREW	(00)				
111	R000442	RELAY GEAR	(00)				
112	R000259	DRIVE GEAR	(00)				
113	R000060	RELAY PULLEY	(00)				
114	R000047	MOTOR ASS'Y	(00)				
115	R000003	LOCK LEVER SPRING	(00)				
116	R000007	ASSIST SPRING	(00)				
117	R001158	BELT	(00)				
118	R002204-Q	STOPPER RUBBER	(00)				
119	R001077	CHANGE LEVER	(00)				
120	R00179-1	LOCK LEVER	(00)				
121	R001112	SLIDE PLATE 1	(00)				
122	R001113	SLIDE PLATE 2	(00)				
123	R00272-0	GEAR COVER	(00)				
124	R0001009-1	SCREW	(00)				
125	R00016000A	KNIFE BLOCK ASS'Y	(00)				
126	X000-8-072	SCREW	(00)				
127	X000-1-002	SCREW	(00)				
128	R00016000B	CLAMP BASE ASS'Y	(00)				
129	R00016000C	CLAMPER ASS'Y	(00)				
ACCESSORIES							
A1	R0044200	REMOTE CONTROL	(00)				
A1-1	R00442100	BATTERY COVER	(00)				
A2	R000043-C	AC WELING LEAD (A1,E,ED) (00)					
A2	R000044-F	AC WELING LEAD (A5,ED) (00)					
A3	R00000000	INSTRUCTIONS MANUAL (00)(00)					
A3	R020004-B	INSTRUCTIONS MANUAL (00)(00)					
A3	R020005-B	INSTRUCTIONS MANUAL (00)(00)					
A4	S002276	STEREO CONNECTION CABLE	(00)				
A5	R0000005	MINORITY CORD	(00)				
A6	R0000006	SERVICE CENTER LIST	(00)				
PACKING MATERIALS							
P1	R0000007	PACKING CASE	(00)				
P2	R0000008	COUSION	(00)				
P3	R0000009	PROTECTION BAG	(00)				
P4	R0000010	PROTECTION BAG	(00)				

Note: The reference number SA represent the grease and tool used for this unit.

■ Packaging

