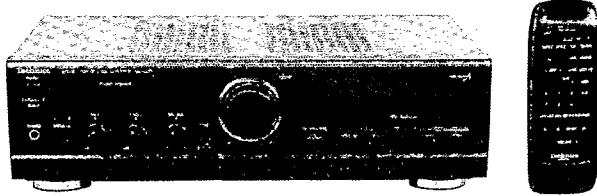


Service Manual

Stereo Integrated Amplifier

Amplifier

SU-V620



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	

Specifications (DIN 45 500)

20 Hz – 20 kHz continuous power output both channels driven	2 × 70 W (8 Ω)
1 kHz continuous power output both channels driven (THD: 1%)	2 × 80 W (8 Ω) 2 × 100 W (4 Ω)
63 Hz – 12.5 kHz continuous power output both channels driven (THD: 1%)	2 × 75 W (8 Ω) 2 × 95 W (4 Ω)
Total harmonic distortion rated power at 20 Hz – 20 kHz	0.1% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE) rated power	0.1% (8 Ω)
Residual hum and noise	1 mV
Damping factor	100 (8 Ω) 50 (4 Ω)
Headphones output level/impedance	540 mV/47 Ω (Ø 6.3)
Load impedance	
A or B	4 Ω – 16 Ω
A and B	8 Ω – 16 Ω
Input sensitivity/impedance	
PHONO MM	2.5 mV/47 kΩ
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS)	
MM	150 mV (IHF '66)
S/N (rated power, 4 Ω)	
PHONO MM	76 dB (77 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	92 dB (95 dB, IHF '66)
S/N at – 26 dB power (4 Ω)	
PHONO MM	67 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	70 dB

S/N at 50 mW (4 Ω)

PHONO MM	63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	63 dB

Frequency response

PHONO MM	RIAA standard curve ± 1 dB (30 Hz – 15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	3 Hz – 60 kHz (+0, – 3 dB) +0 dB, – 0.3 dB (20 Hz – 20 kHz)

Tone controls

BASS	50 Hz, +10 dB to – 10 dB
TREBLE	20 kHz, +10 dB to – 10 dB

Output voltage

TAPE 1, TAPE 2/DCC REC OUT	150 mV
Channel balance (AUX 250 Hz – 6.3 kHz)	± 1 dB
Channel separation (AUX 1 kHz)	50 dB

■ GENERAL

Power consumption	190 W
Power supply	
For (E) and (EG) areas	50 Hz/60 Hz AC, 230 V
For (EB), (GN) areas	50 Hz/60 Hz AC, 230 V – 240 V
For (GC) area only	50 Hz/60 Hz AC, 110 V – 127 V / 220 V – 240 V
Dimensions (W × H × D)	430 × 125 × 310 mm
Weight	6.8 kg

Notes:

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

⚠ 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.

Technics®

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■ Before Repair

- (1) Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C703, C704, C705, 706) 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 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230 V/240 V/110V – 127 V/220V – 240V.

Power supply voltage	AC 230 V	AC 240 V	AC 110V – 127 V	AC 220V – 240V
Consumed current 50 Hz	70 ~ 220 mA	65 ~ 215 mA	130 ~ 410 mA	65 ~ 215 mA

■ Protection Circuitry

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

- No sound is heard when the power is switched ON.
- Sound stops during a performance.

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

If this occurs, follow the procedure outlined below:

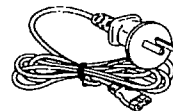
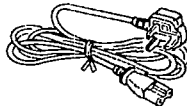
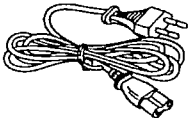
1. Switch OFF the power.
2. Determine the cause of the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

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

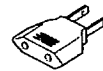
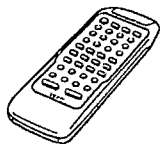
■ Accessories

- AC power supply cord
(E, EG, GC) areas : (RJA0019-2K) 1 (EB) area : (VJA0733) 1 (GN) area : (RJA0036-K) 1



- Remote control transmitter (RAK-SU129WH) 1
- Batteries (UM-4, “AAA”, R03) 2
- Power plug adaptor [for (GC) area only] (SJP5213-2) 1

Note: These are available on sales route.



■ 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.

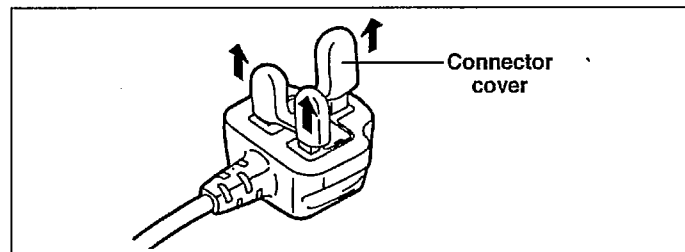
This apparatus was produced to BS 800.

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 \perp .

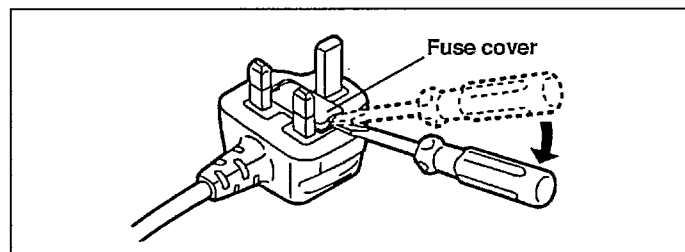
Before use

Removal the connector cover as follows.

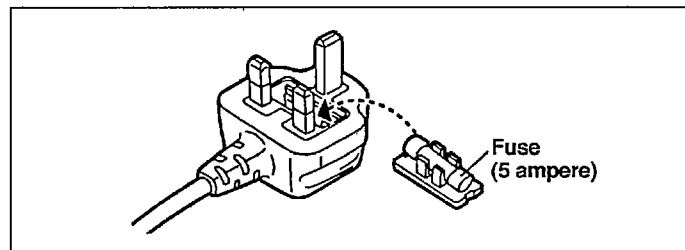


How to replace the fuse

1. Remove the fuse cover with a screwdriver.

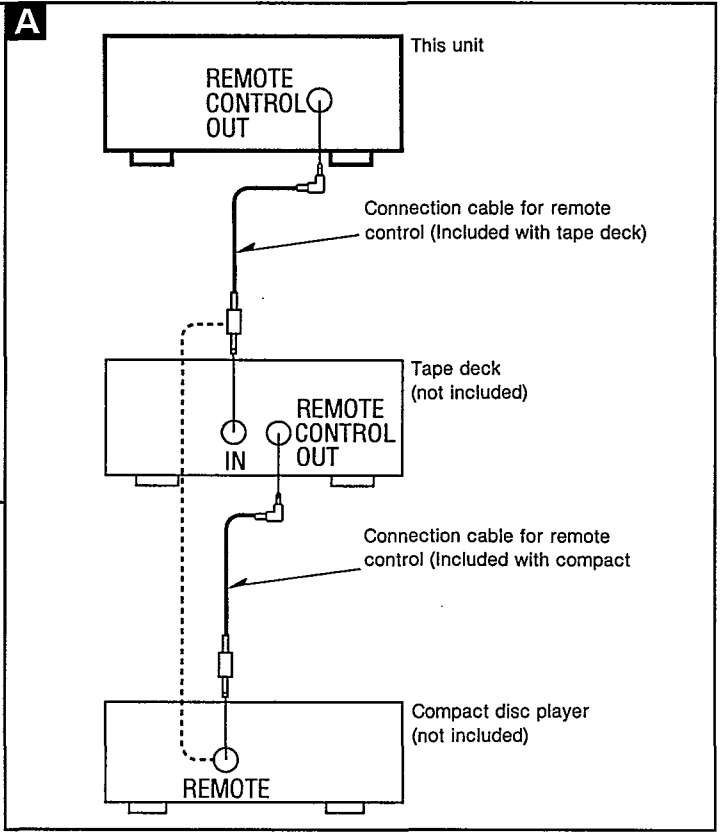
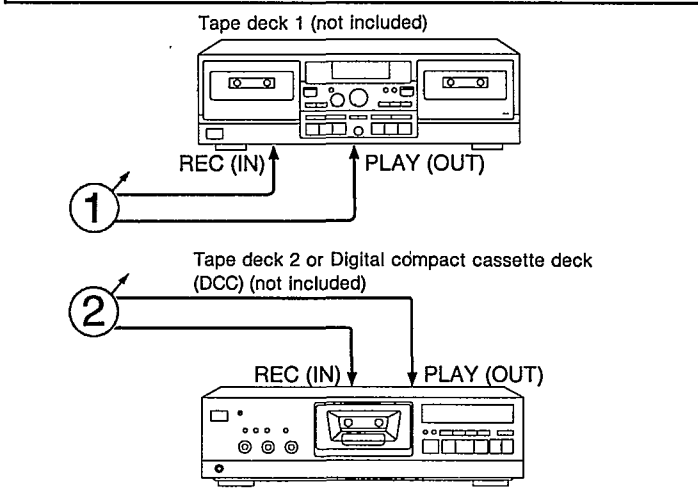
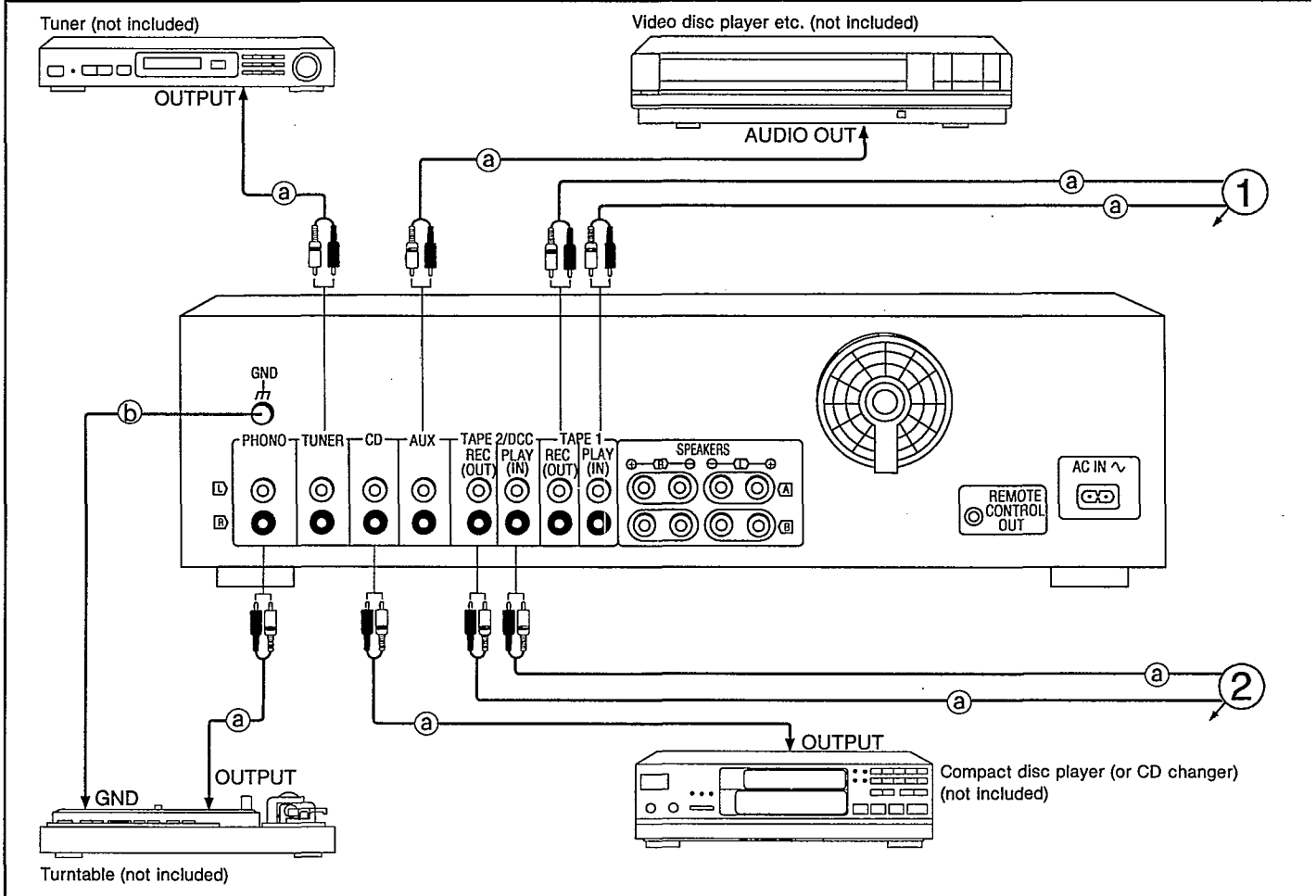
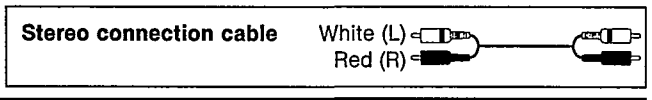


2. Replace the fuse and attach the fuse cover.



Connecting the Audio Components

Make connections to each component in the system by using stereo connection cables (not included).



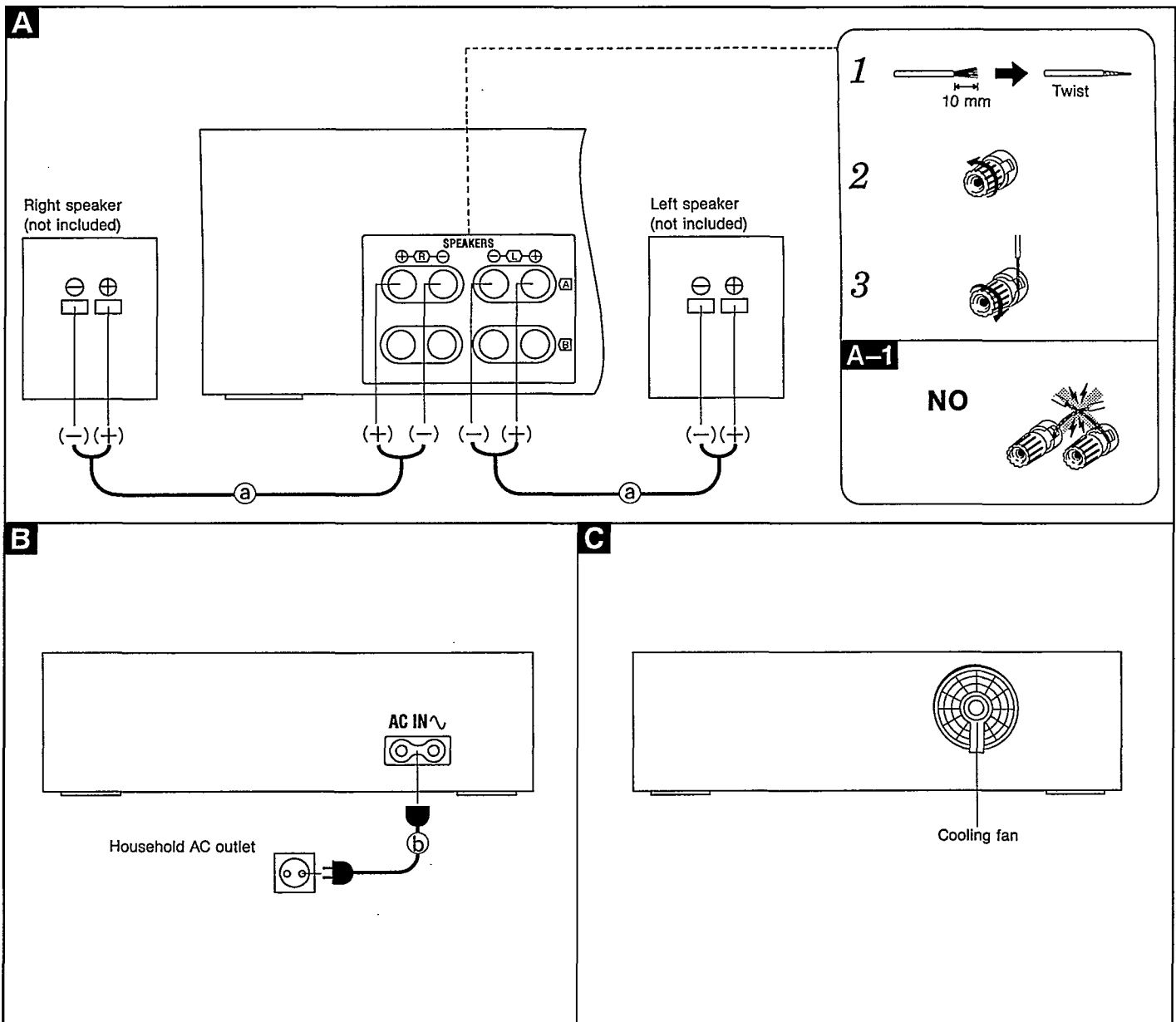
Ⓐ Stereo connection cables (not included)
 Ⓑ Ground wire (not included)

“REMOTE CONTROL OUT” terminal A

Connect the connection cable for the remote control to a Technics tape deck and/or CD player (or CD changer) which has the appropriate remote control terminal as shown at the right. If a tape deck is not being used, the CD player (or CD changer) can be connected directly (dotted line).

Note
 For a tape deck and/or CD player (or CD changer) with a remote control sensor, this connection is not necessary.

■ Connecting the Speakers and Power Supply



Connecting the speakers **A**

- Ⓐ Speaker cables (not included)
Be sure to only connect positive (+) wires to positive (+) terminals, and negative (-) wires to negative (-) terminals.

“B” terminals

For connection to a second pair of speakers.

Speaker Impedance

- When only the “A” or only the “B” terminals are used: 4–16 ohms
- When both the “A” and the “B” terminals are used simultaneously: 8–16 ohms

CAUTION **A-1**

To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.

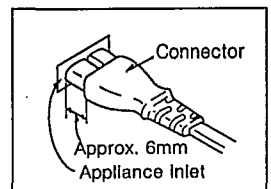
Connecting the AC power supply cord **B**

Connect the AC power supply cord only after all other connections have been made.

- Ⓑ AC power supply cord (included)

Insertion of Connector

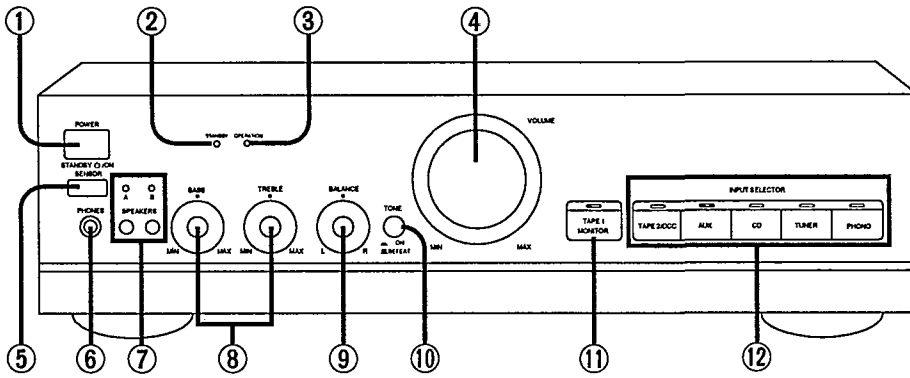
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.



Cooling fan **C**

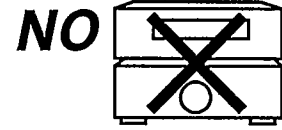
The cooling fan operates at high power output levels only.

■ Front Panel Controls



CAUTION

Do not place a tape deck or CD player on top of this unit. Heat radiated from the top of this unit may cause damage to the tape or CD software.



① Power “STANDBY \square /ON” switch (POWER, STANDBY \square /ON)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② “STANDBY” indicator (STANDBY)

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

③ Operation indicator (OPERATION)

When the power is switched ON, this indicator illuminates after about 2 seconds when the unit is in the operating condition.

If an abnormal condition in the circuitry is detected, such as a short-circuit of the positive (+) and negative (-) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.

④ Volume control (VOLUME)

⑤ Remote control signal sensor (SENSOR)

Receives the signals from the remote control.

⑥ Headphones jack (PHONES) (ϕ 6.3, 47 Ω)

⑦ Speaker select buttons/indicators (SPEAKERS)

⑧ Tone controls (BASS/TREBLE)

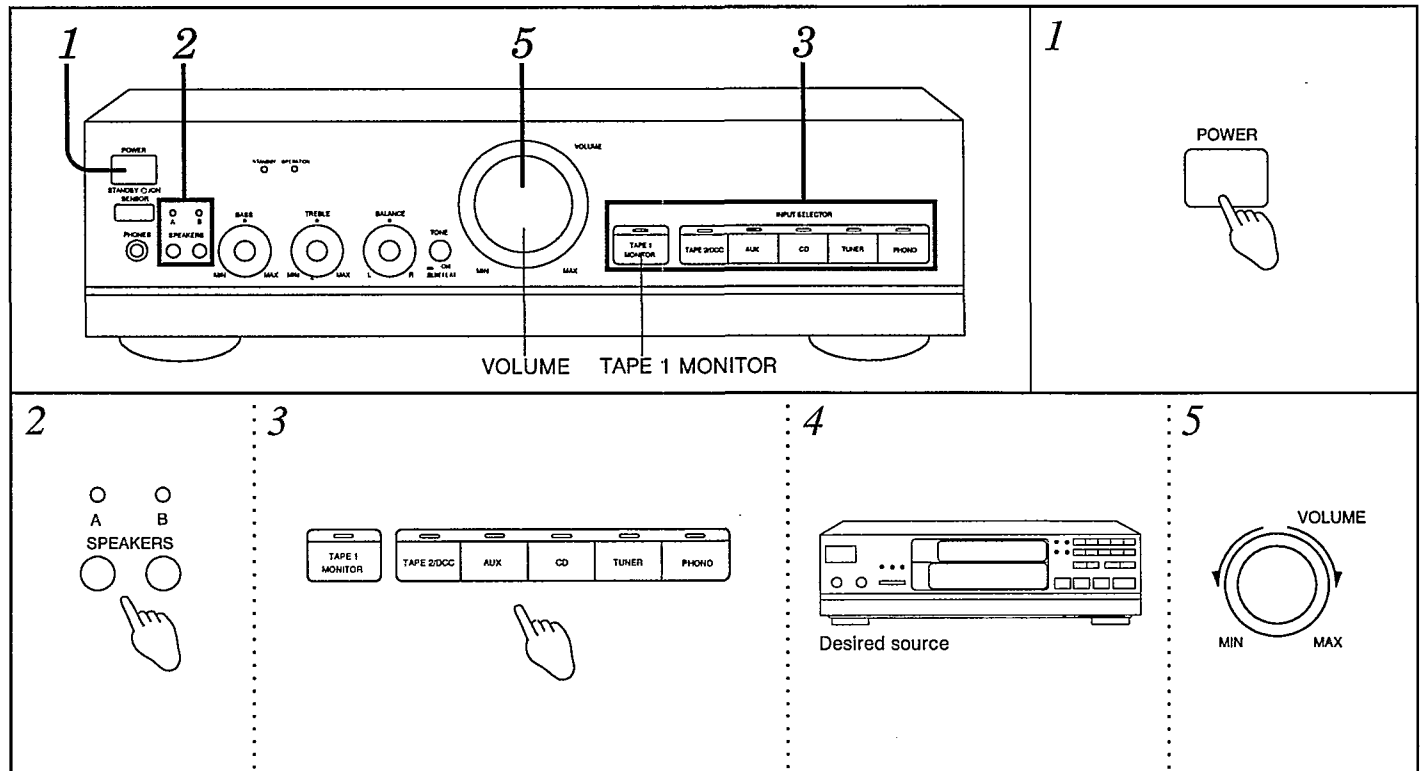
⑨ Balance control (BALANCE)

⑩ Tone control button (TONE)

⑪ TAPE 1 MONITOR button/indicator (TAPE 1 MONITOR)

⑫ Input select buttons/indicators (INPUT SELECTOR)

■ Listening to Sound



Before operation, set VOLUME to the "MIN" position.

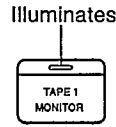
- 1 Press POWER to switch on the power.**
- 2 Press A and/or B to select the speaker system(s) to be used.**
The corresponding indicator(s) will illuminate.
- 3 Press to select the desired source.**
The corresponding indicator above will illuminate to indicate which button is selected.
TAPE 1 MONITOR: To listen to tape (TAPE 1). The tape monitor indicator will illuminate. (See below.)
TAPE 2/DCC: To listen to tape (TAPE 2) or digital compact cassette (DCC).
AUX: To listen to equipment connected to the "AUX" terminals.
CD: To listen to compact discs.
TUNER: To listen to radio broadcasts.
PHONO: To listen to phono discs.

- 4 Start the desired source.**
(Refer to the appropriate operating instructions for details.)
- 5 Turn VOLUME to adjust the volume level.**

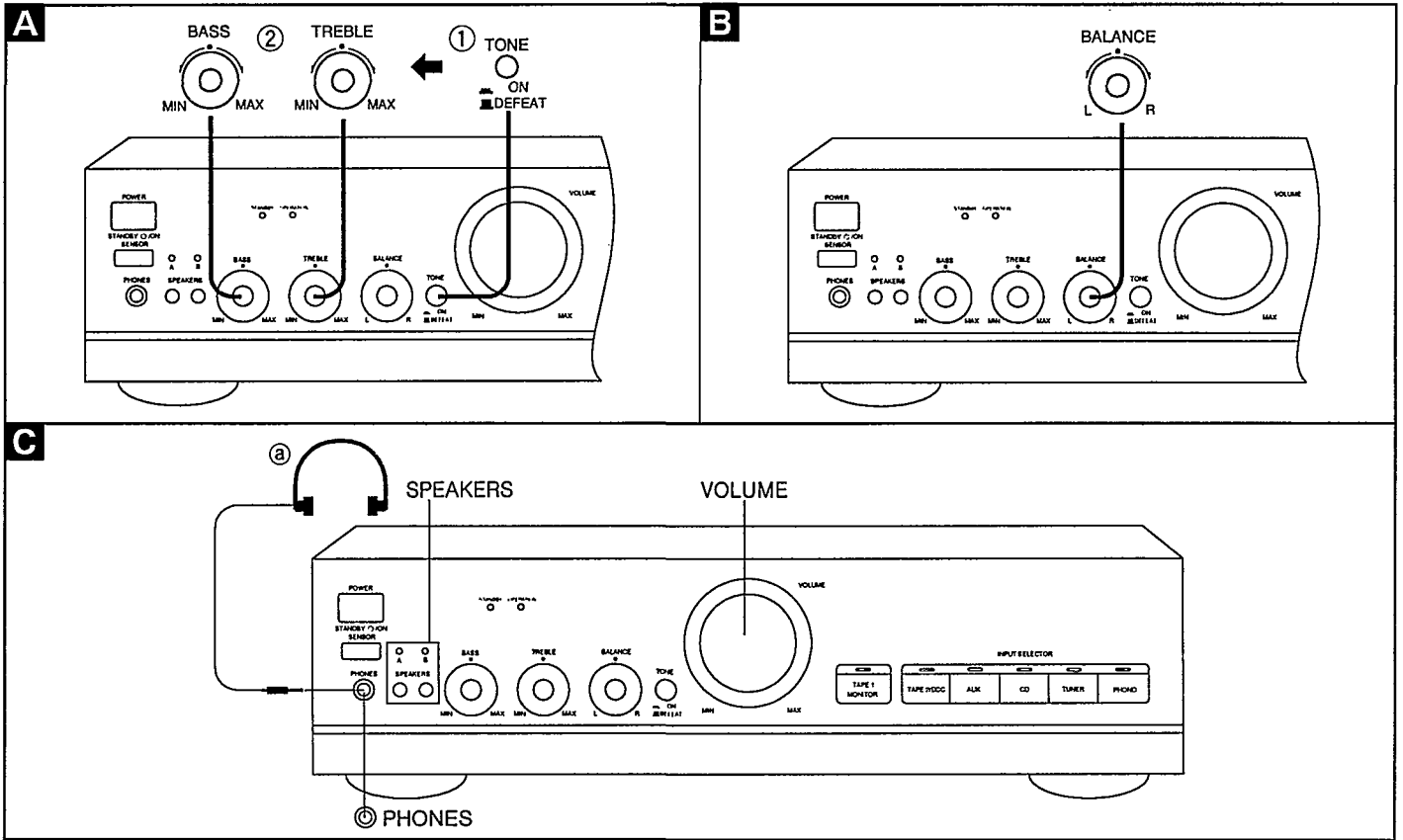
After listening is finished

Be sure to reduce the volume level, and turn the unit off by pressing POWER.

When tape 1 monitor indicator illuminates



This indicates that the tape monitor function of this unit is ON.
To listen to sources other than a tape (TAPE 1), be sure to turn off the indicator by pressing TAPE 1 MONITOR.



To adjust the tone quality A

- ① Set TONE to the " ON " position.
- ② Turn BASS to adjust the low-frequency sound.
Turn TREBLE to adjust the high-frequency sound.

If listening without adjusting the tone quality, press TONE so that it is at the " DEFEAT " position.

To adjust the sound balance B

Turn BALANCE to adjust the left/right sound balance.

To listen through headphones C

Use VOLUME to reduce the volume level, and connect the headphones.

- ③ Headphones (not included)
Plug type: 6.3 mm phone plug stereo type

If sound from speakers is not wanted, press SPEAKERS (A) and/or (B) to turn off the speaker select indicators.

Note

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

Recording

To record from compact discs, etc.

It is possible to record from units which are connected to the rear "AUX", "CD", "TUNER" or "PHONO" terminals to cassette tape decks or DCC decks which are connected to the "TAPE 1" or "TAPE 2/DCC" terminals.

Refer to the operating instructions for the tape deck or DCC for detailed adjustment of the recording level, etc..

1 Select the desired source to be recorded.

AUX: To record from equipment connected to the "AUX" terminals.

CD: To record from compact discs.

TUNER: To record from radio broadcasts.

PHONO: To record from phono discs.

2 Begin recording on tape deck.

3 Begin the source to be recorded.

To check the sound recorded while recording is being made **A**

If a cassette tape deck with 3 heads is connected to the "TAPE 1" terminals, it is possible to check the sound being recorded onto the tape.

Press TAPE 1 MONITOR (indicator will illuminate) on this unit and set the monitor button on the tape deck to "TAPE".

Press TAPE 1 MONITOR once again to turn it off.

Note

If recording to both decks simultaneously, do not press TAPE 1 MONITOR. (If this button is pressed, it will not be possible to record to the deck which is connected to the "TAPE 2/DCC" terminals.)

Tape-to-tape recording

It is possible to record from tape deck 2 (the cassette tape deck or DCC deck which is connected to the "TAPE 2/DCC" terminals) to tape deck 1 (the cassette tape deck which is connected to the "TAPE 1" terminals).

Refer to the operating instructions for the tape deck for detailed adjustment of the recording level, etc..

Tape deck 1: For recording **Tape deck 2:** For playback.

1 Press TAPE 2/DCC.

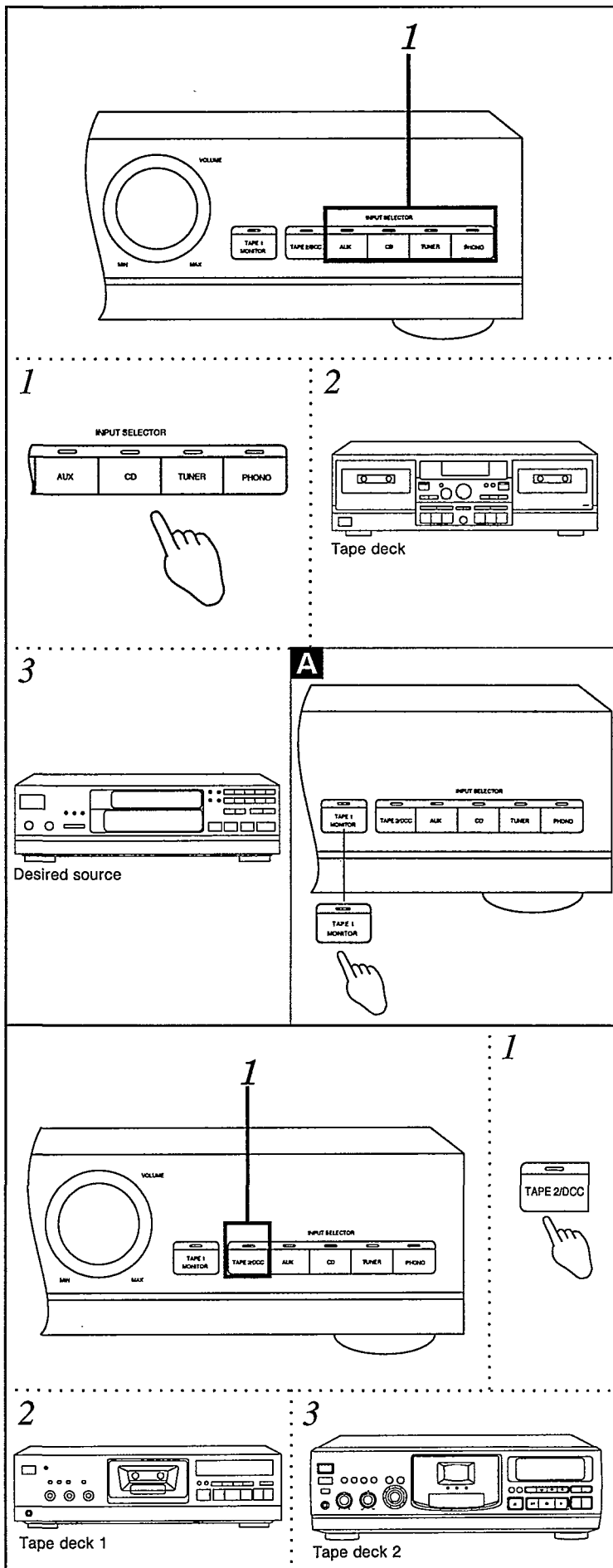
2 Begin recording on tape deck 1.

3 Begin tape playback on tape deck 2.

For your reference

When recording from tape deck 1 to tape deck 2, press TAPE 1 MONITOR in step 1 above, and then start recording on tape 2 and begin playback on tape 1.

At this time, make sure that the input selector is set to a position other than "TAPE 2/DCC". (This is because monitoring of the unit connected to the "TAPE 2/DCC" terminals is not possible.)



■ Operation Check and Main Component Replacement Procedure

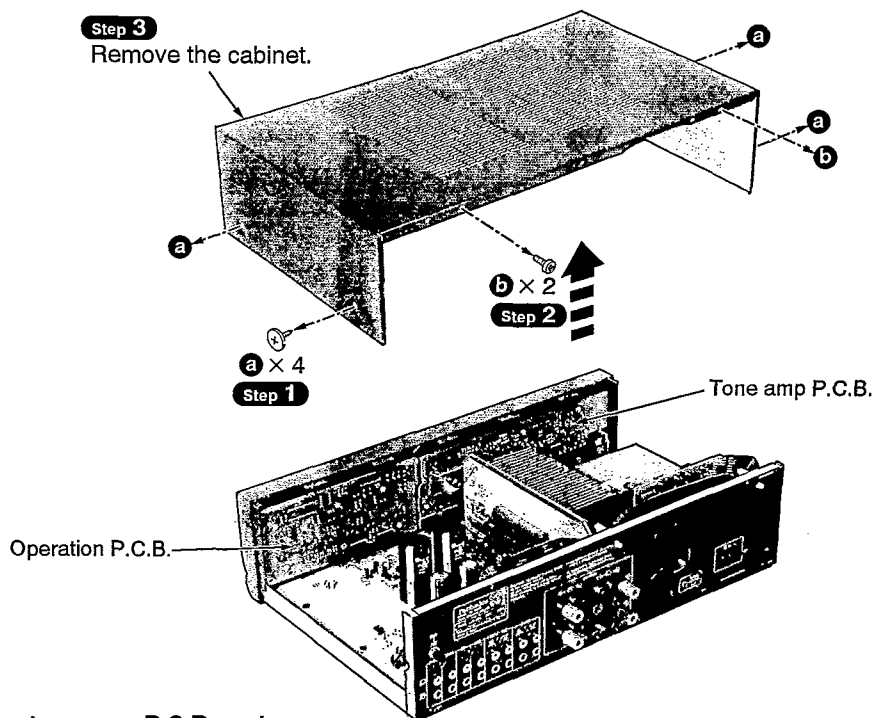
- NOTE**
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
 2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.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

● Contents

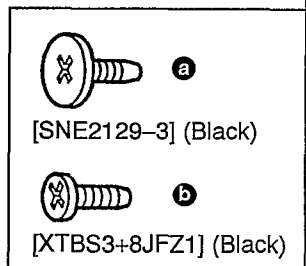
•Checking Procedure for each P.C.B.	Page.
1.Checking for the tone amp P.C.B. and operation P.C.B.,	9,10.
2.Checking for the main P.C.B.,.....	10,11.
•Main Component Replacement Procedures	
1.Replacement for the foot.	12.
2.Replacement for the power IC and regulator transistor.	12,13.
3.Replacement for the fan motor.	13.

■ Checking Procedure for each P.C.B.

1. Checking for the tone amp P.C.B. and operation P.C.B.

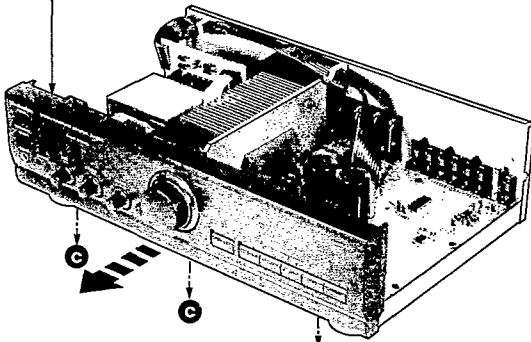


• Check the tone amp P.C.B. and operation P.C.B. as shown above.



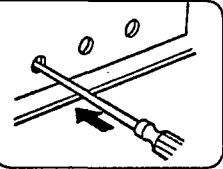
To remove each P.C.B.

Step 5
Pull out the front panel ass'y.



c × 3
Step 4

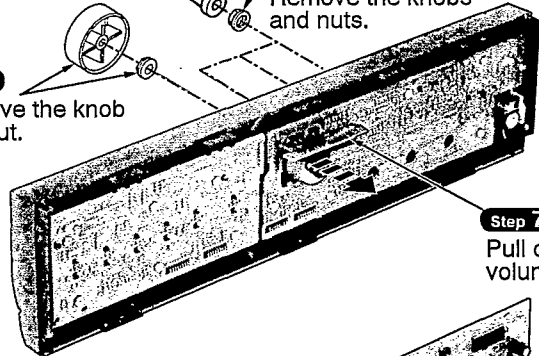
Remove the knob with pushing by ⊖ screwdriver toward the P.C.B. when the knob is hardly removed.



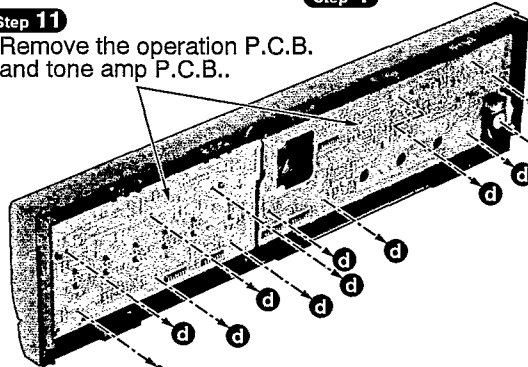
Step 8
Remove the knobs and nuts.

Step 6
Remove the knob and nut.

Step 7
Pull out the volume P.C.B..



Step 11
Remove the operation P.C.B. and tone amp P.C.B..



d × 11 **Step 9**

Step 10

Step 12
Pull out the headphones jack P.C.B..

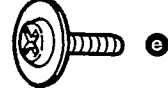


c



d

[RHD26017]

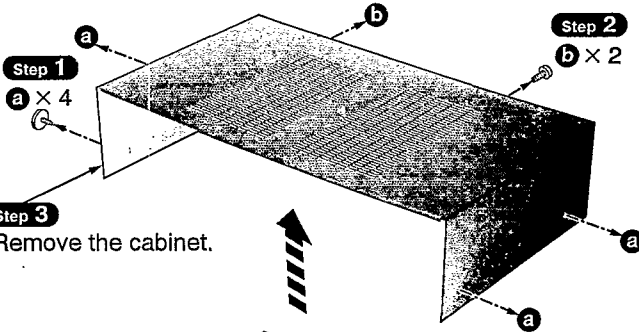


e

[RHD26018]

[XTBS3+8JFZ1](Black)

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

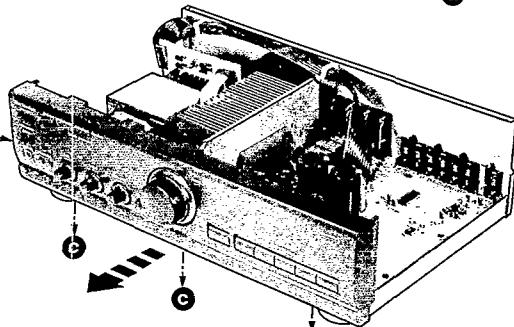


Step 1
a × 4

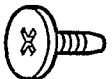
Step 2
b × 2

Step 3
Remove the cabinet.

Step 5
Pull out the front panel ass'y.

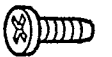


c × 3
Step 4



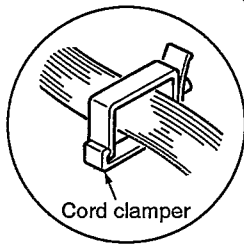
a

[SNE2129-3](Black)

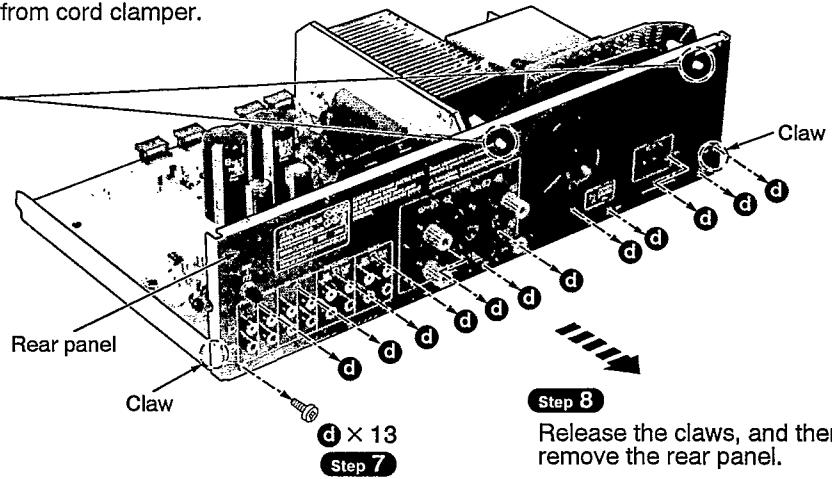


b, c

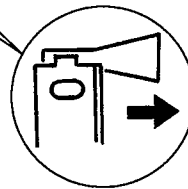
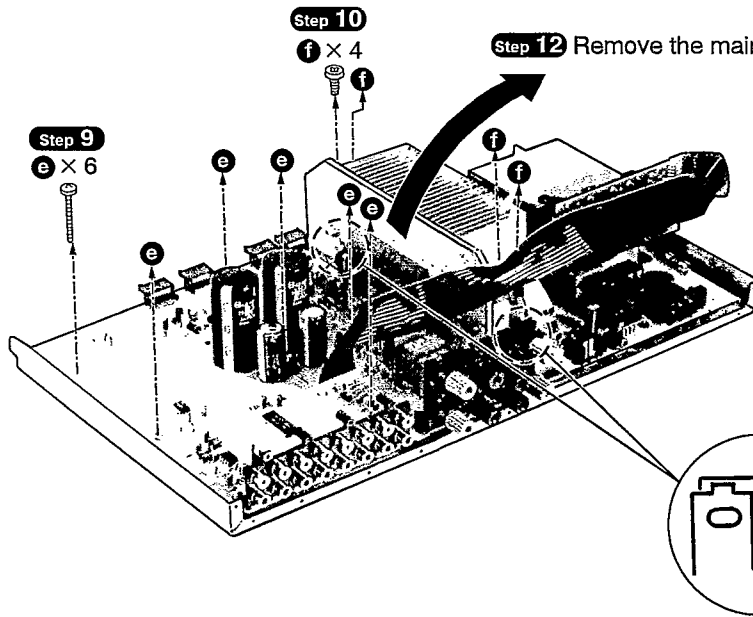
[XTBS3+8JFZ1](Black)



Step 6
Remove the flat cables
from cord clammer.



Step 8
Release the claws, and then
remove the rear panel.

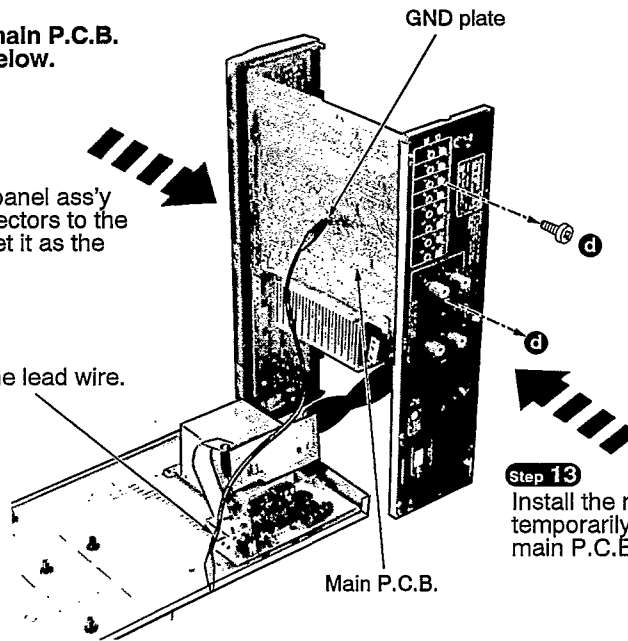


Step 11
Release the hooks.


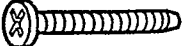

• Check the main P.C.B.
as shown below.

Step 14
Connect the front panel ass'y
of the P.C.B. connectors to the
main P.C.B. and set it as the
illustration right.

Step 15
Connect the lead wire.



Step 13
Install the rear panel
temporarily on the
main P.C.B. again.

-  **d**
[XTBS3+8JFZ1](Black)
-  **e**
[XTB3+20JFZ](Black)
-  **f**
[XTB3+8JFZ](Black)

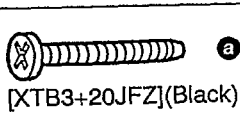
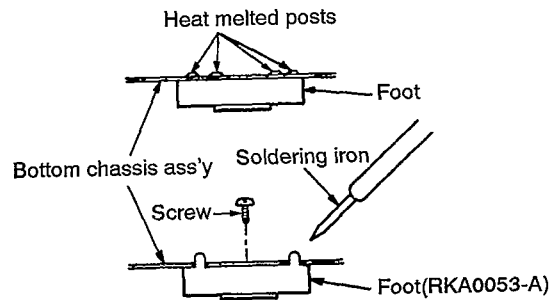
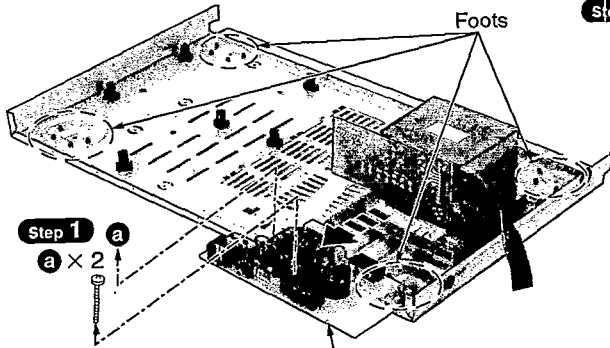
Main Component Replacement Procedures

1. Replacement for the foot

• Follow the **Step 1** ~ **Step 12** in item 2 on checking procedure for each P.C.B. on pages 10 and 11.

Step 3 Remove the 4 heat melted posts on the bottom chassis ass'y with a pair of nippers or similar tool.

Step 4 To replace the foot(RKA0053-A) on the bottom chassis ass'y melt the 4 posts with a soldering iron or install it with a screw (XTB3+6J)



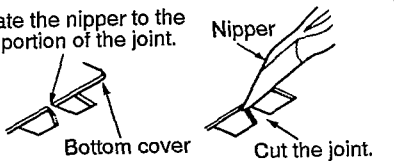
Step 2 Remove the power supply P.C.B.

2. Replacement for the power IC and regulator transistor

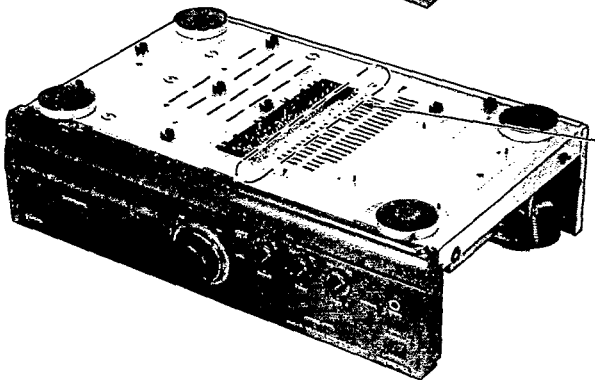
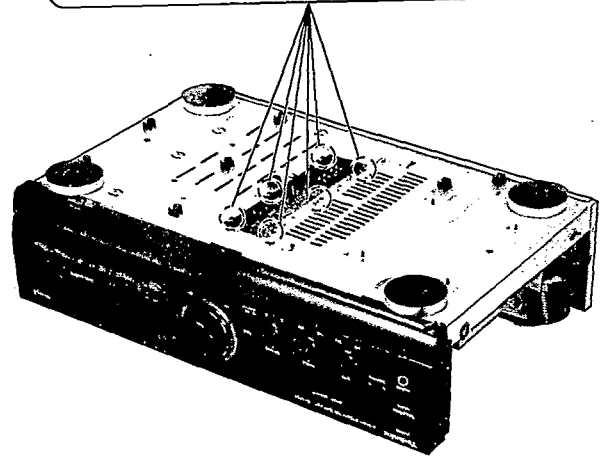
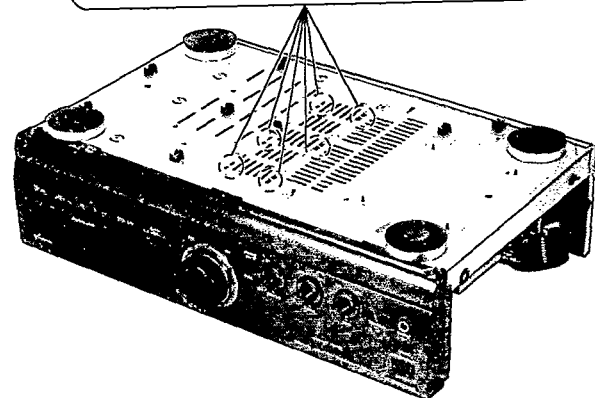
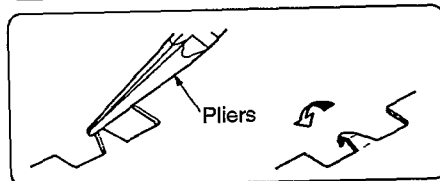
• Follow the **Step 1** ~ **Step 3** in item 1 on checking procedure for each P.C.B. on page 9.

Step 1 Cut the joints as shown below.(6 portions)

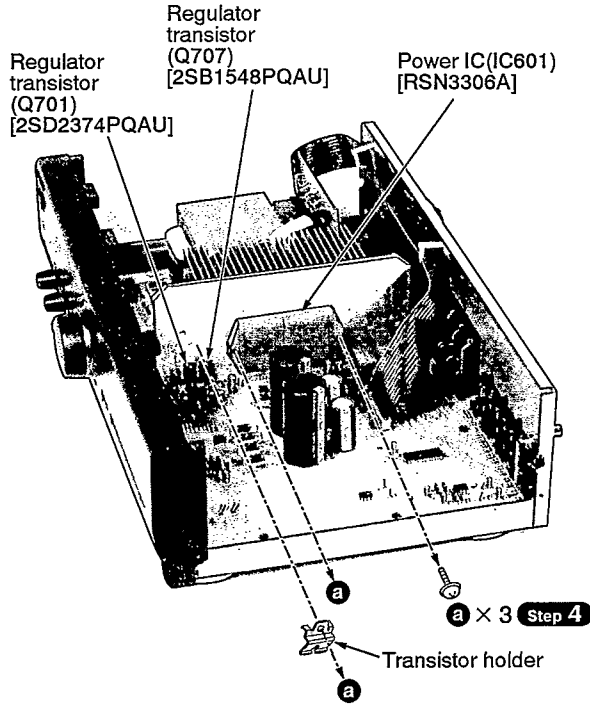
Locate the nipper to the thin portion of the joint.



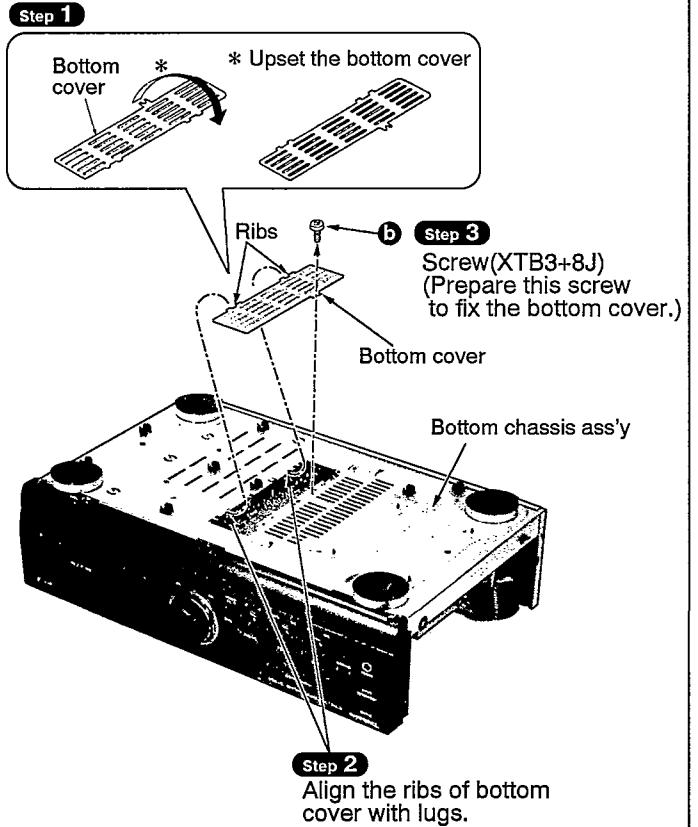
Step 2 Fold the joints.(6 portions)



Step 3 Unsolder the terminals of power IC and regulator transistor.

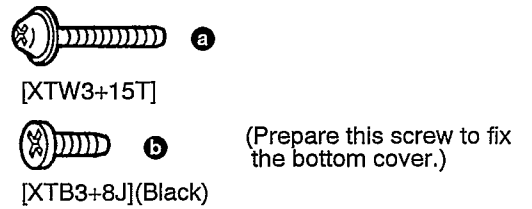


Installation of the bottom cover after replacement



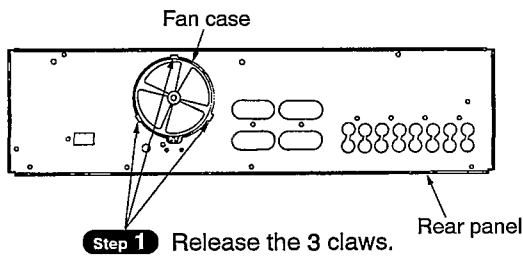
CAUTION

1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (a) after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.



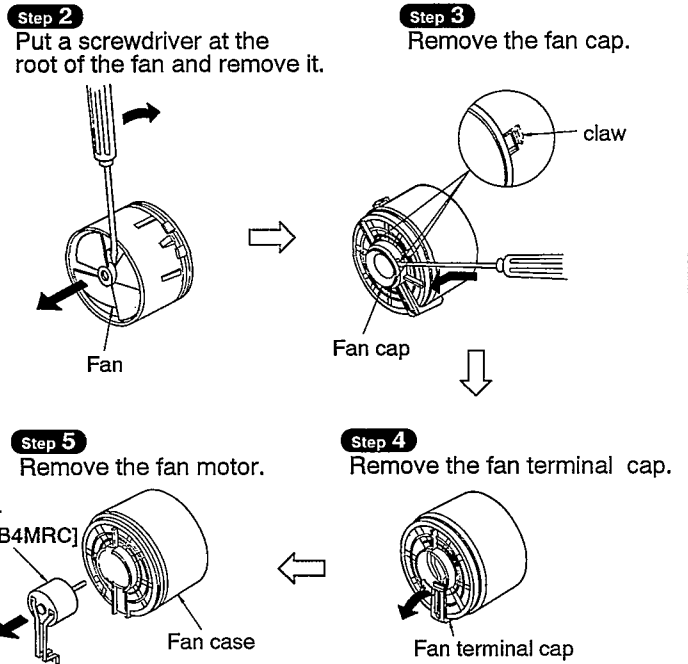
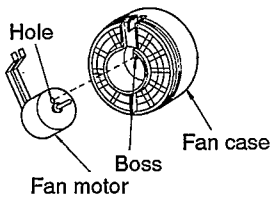
3. Replacement for the fan motor

• Follow the **Step 1** ~ **Step 8** in item 2 on checking procedure for each P.C.B. on pages 10 and 11.



NOTE

When replacing the fan motor, align the boss of the fan case with the hole of the fan motor.



■ Schematic Diagram

	Page
A OPERATION CIRCUIT	15
B VOLUME CIRCUIT	15
C TONE AMP CIRCUIT	16
D HEADPHONES JACK CIRCUIT	16
E MAIN CIRCUIT	17~19
F POWER SUPPLY CIRCUIT	19, 20
G POWER TRANSFORMER CIRCUIT	19, 20
H AC IN CIRCUIT [for (GC) area only]	20





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

Notes:

- S401 : TONE control switch (ON/DEFEAT)
- S701 : Voltage adjustment switch in "220V-240V" position [for (GC) area only]
- S801 : Input selector switch (PHONO)
- S802 : Input selector switch (TUNER)
- S803 : Input selector switch (CD)
- S804 : Input selector switch (AUX)
- S805 : Input selector switch (TAPE 2/DCC)
- S806 : TAPE 1 MONITOR switch
- S807 : Power "STANDBY ϕ /ON" switch (POWER, STANDBY ϕ /ON)
- S808 : Speaker select switch (SPEAKER A)
- S809 : Speaker select switch (SPEAKER B)
- VR471 : Tone control (BASS)
- VR472 : Tone control (TREBLE)
- VR501 : Volume control (VOLUME)
- VR502 : Balance control (BALANCE)

- 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

● Voltage and signal line

-  : Phono Signal (L-ch) Line
-  : Rec Out Signal (L-ch) Line
-  : Positive Voltage Line
-  : Negative Voltage Line

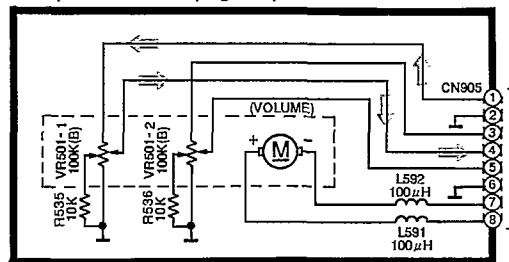
● Important safety notice:

Components identified by \triangle 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.

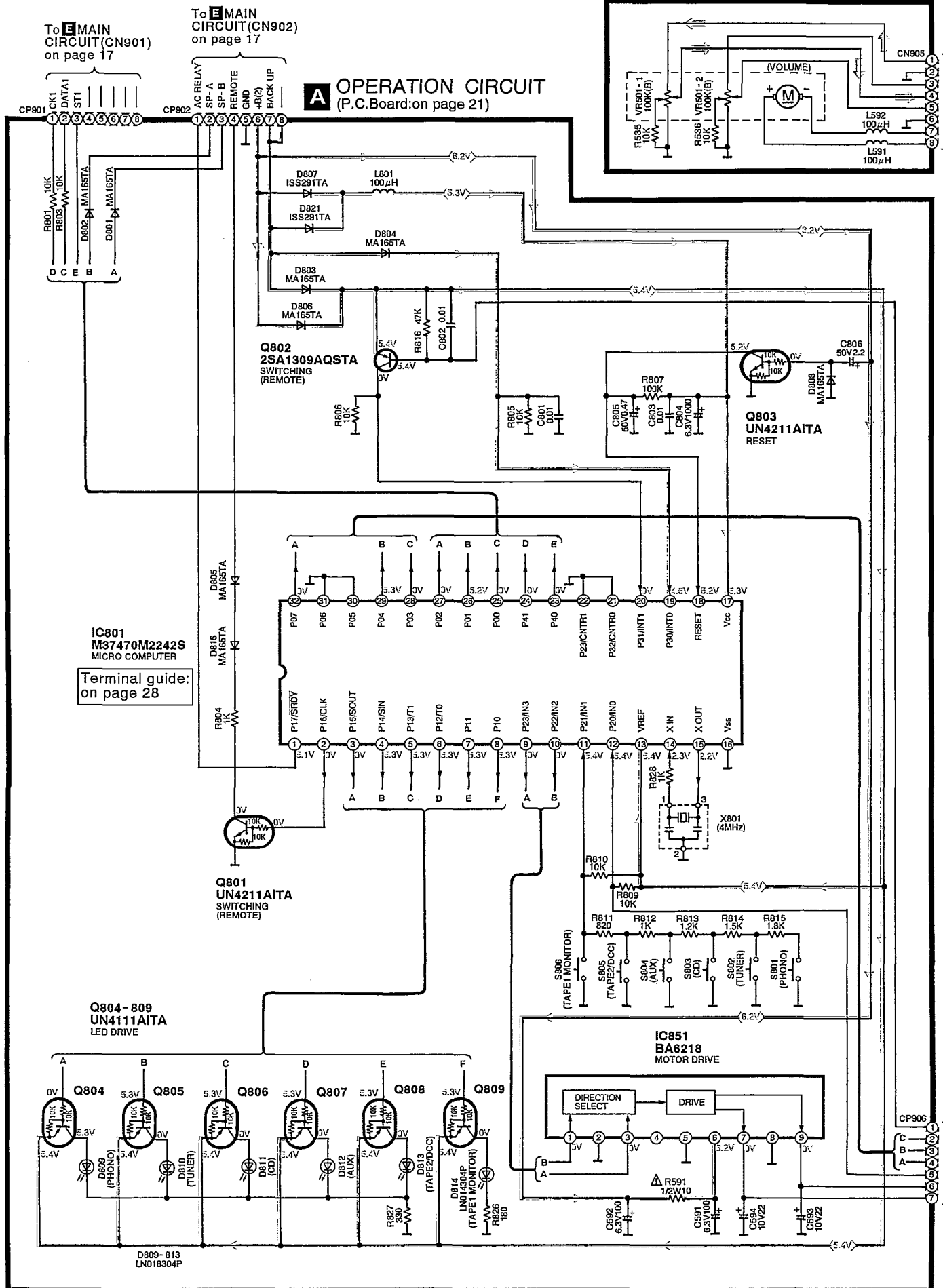
● Caution!

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.

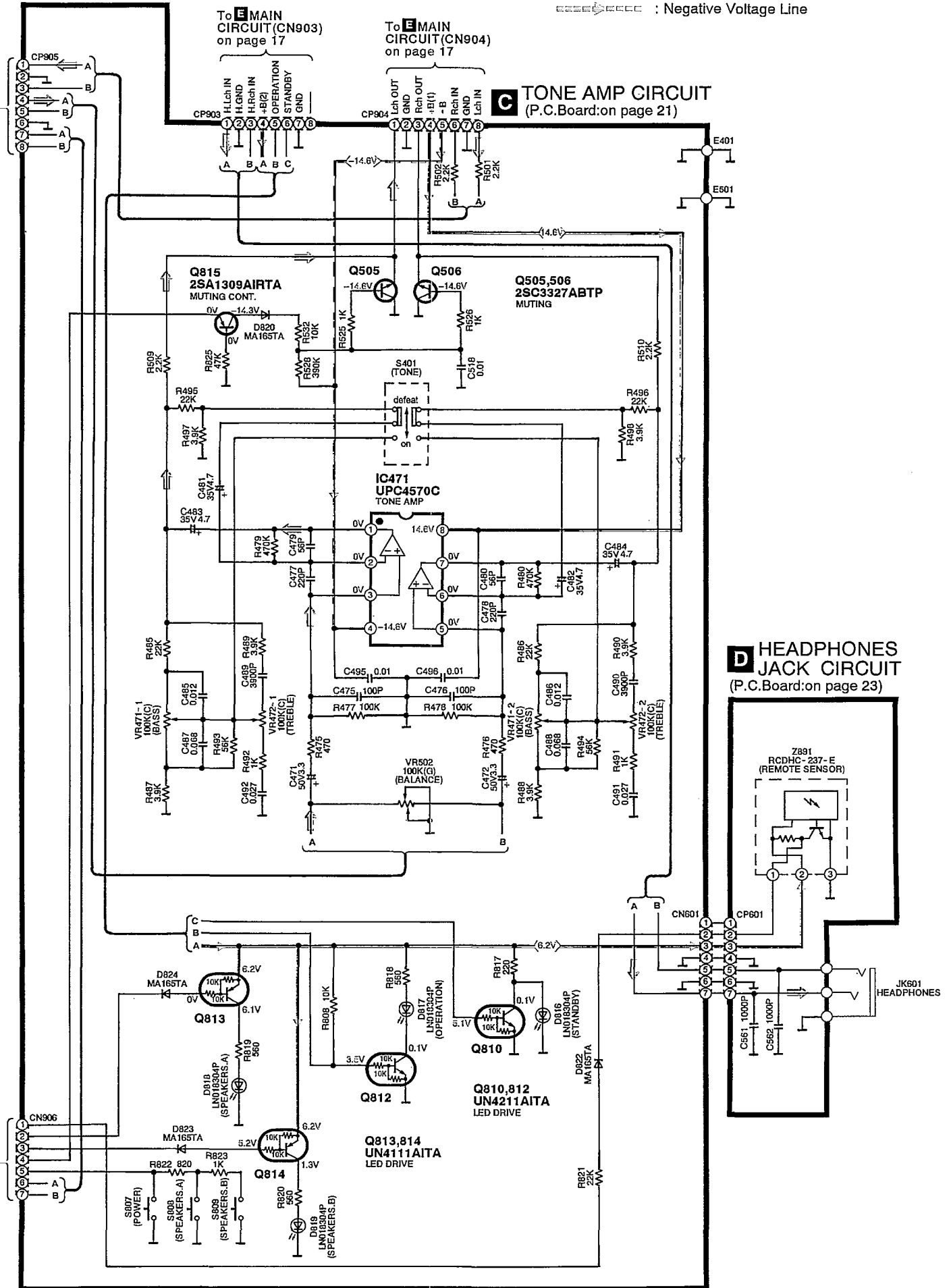
B VOLUME CIRCUIT
(P.C. Board: on page 23)



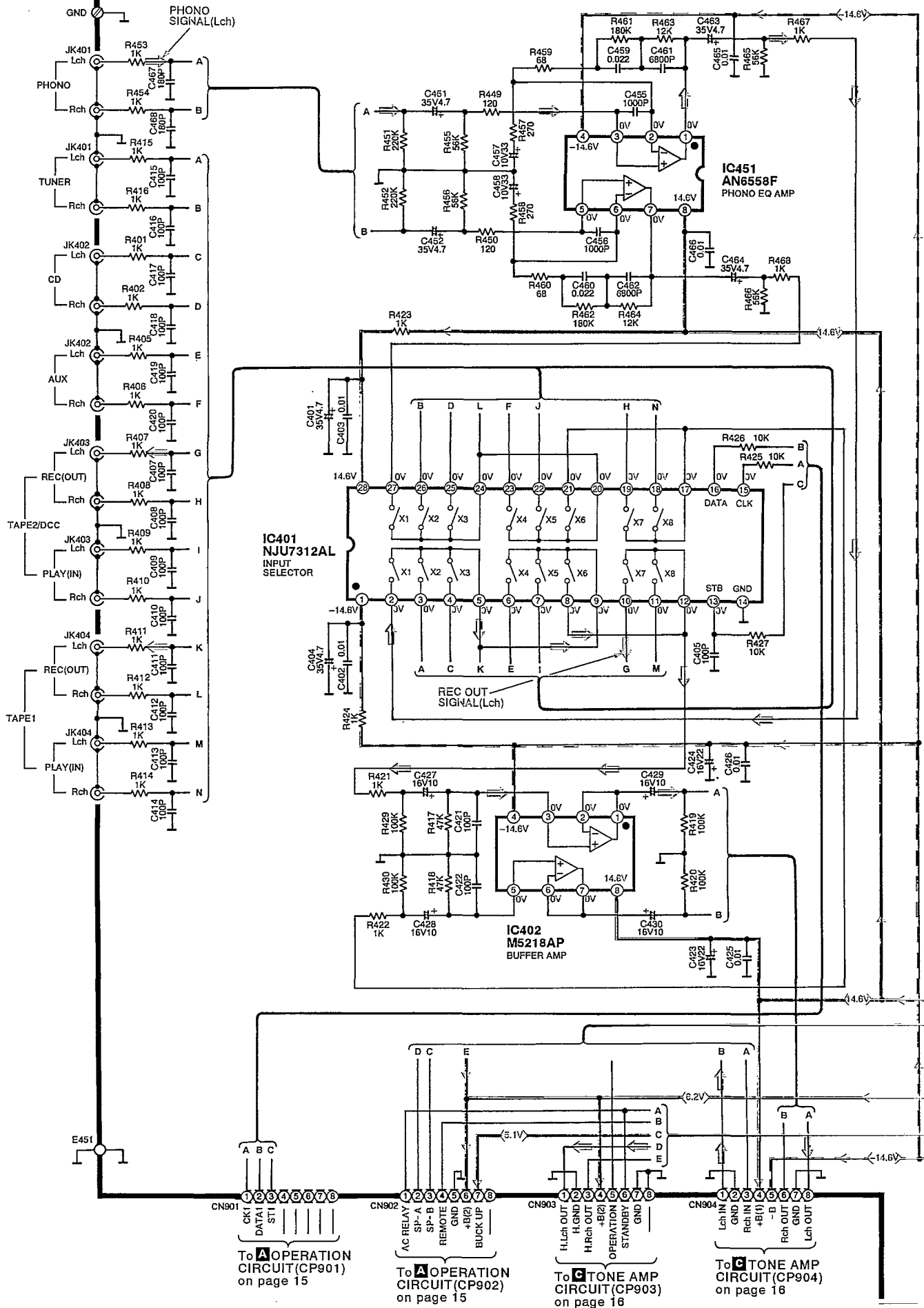
A OPERATION CIRCUIT
(P.C. Board: on page 21)

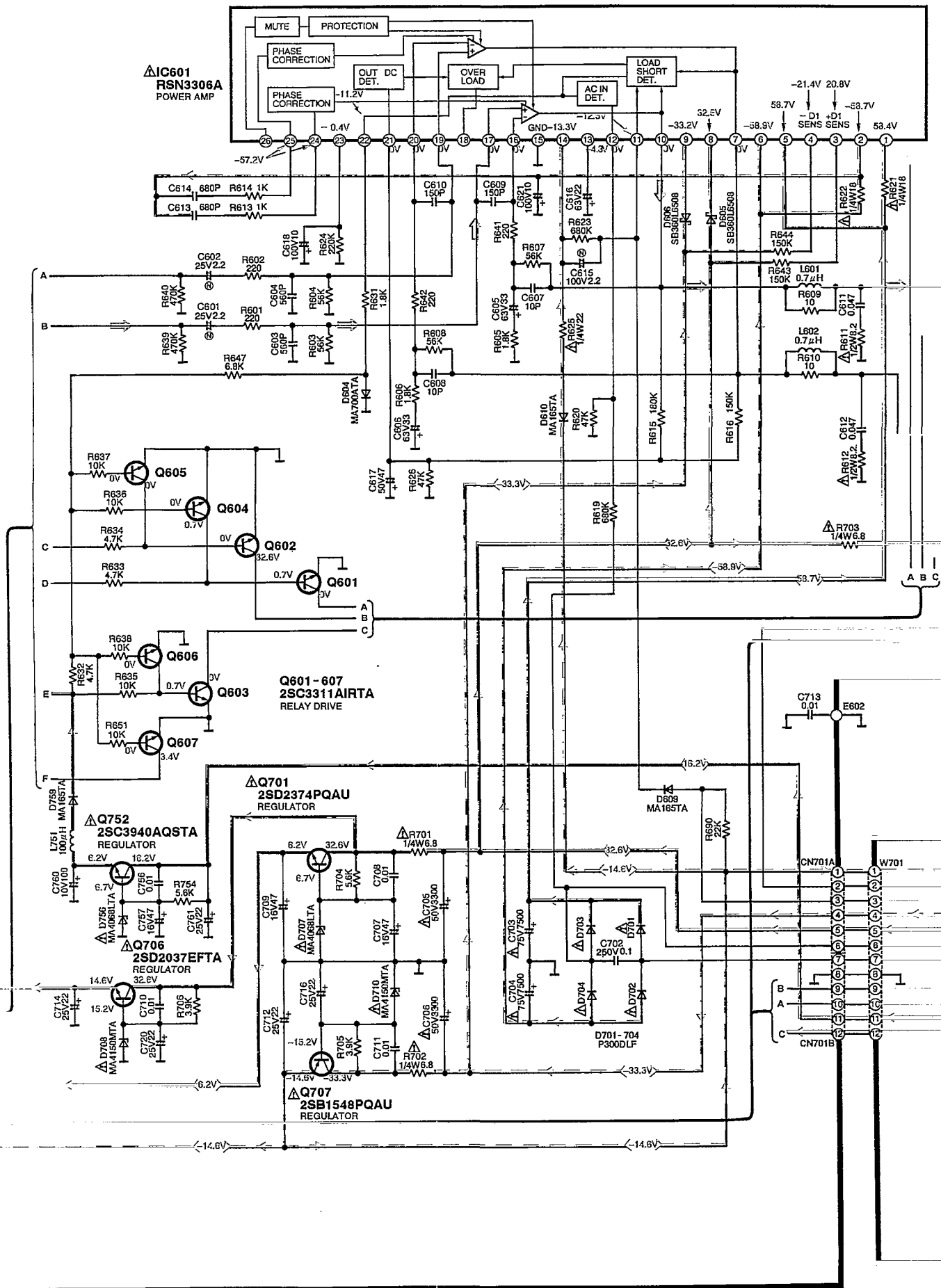


- : Phono Signal (L-ch) Line
- : Rec Out Signal (L-ch) Line
- : Positive Voltage Line
- : Negative Voltage Line

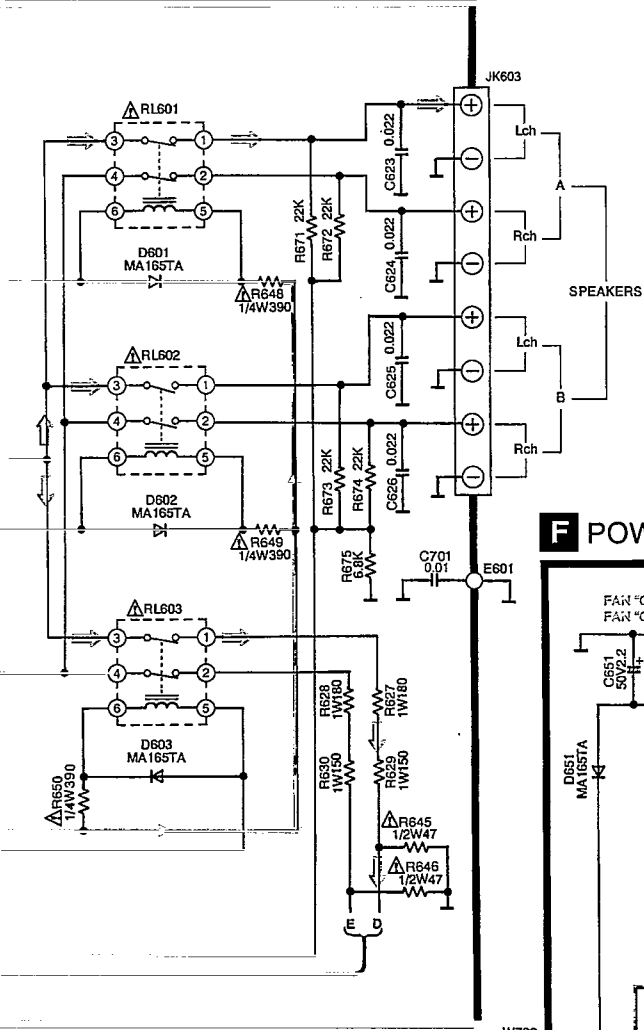


E MAIN CIRCUIT (P.C.Board: on pages 22,23)



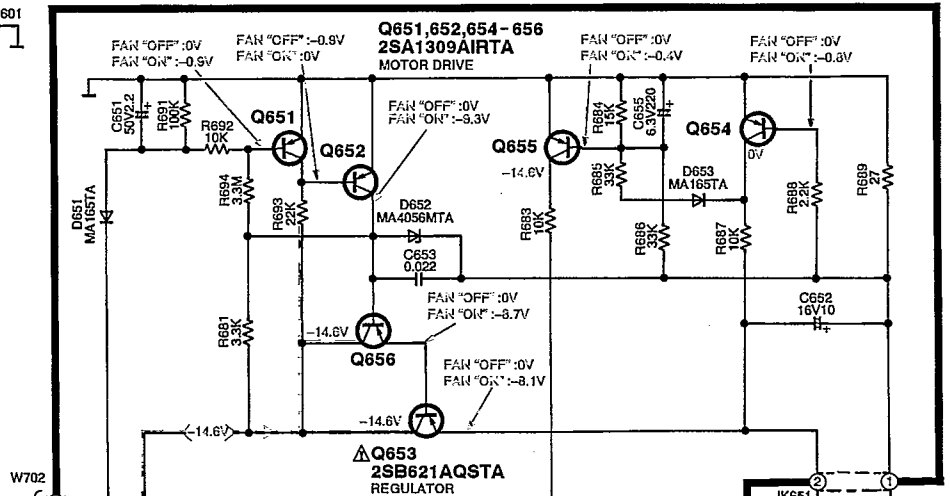


E MAIN CIRCUIT (P.C.Board: on pages 22,23)

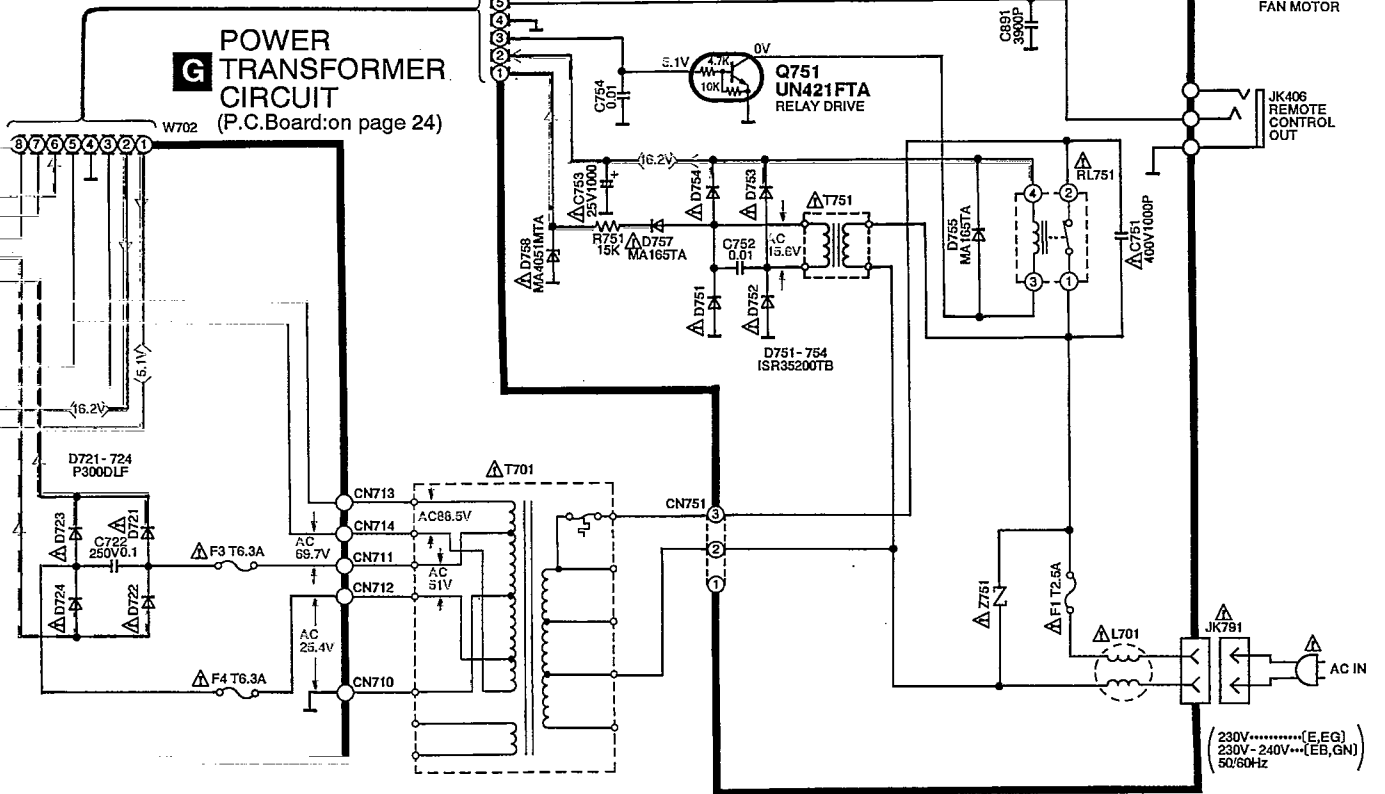


: Phono Signal (L-ch) Line
 : Positive Voltage Line
 : Negative Voltage Line

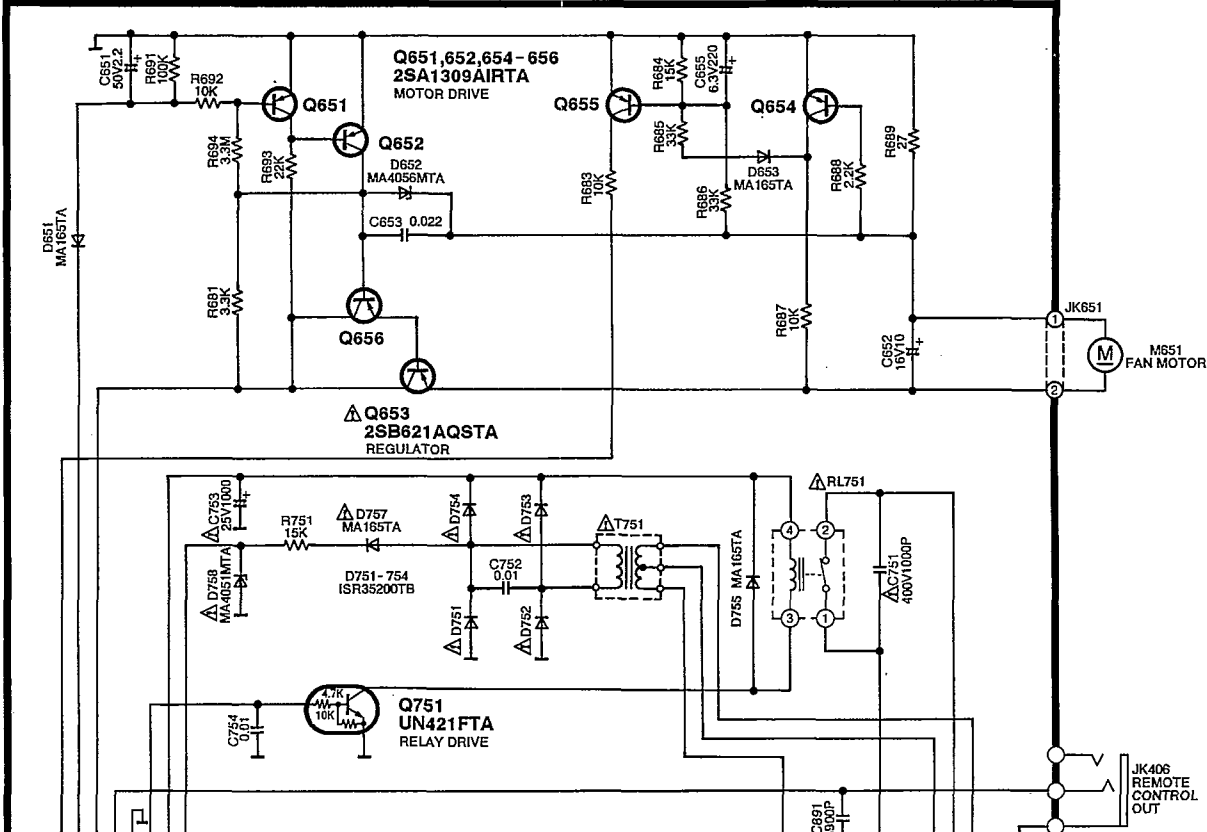
F POWER SUPPLY CIRCUIT (P.C.Board: on page 24)



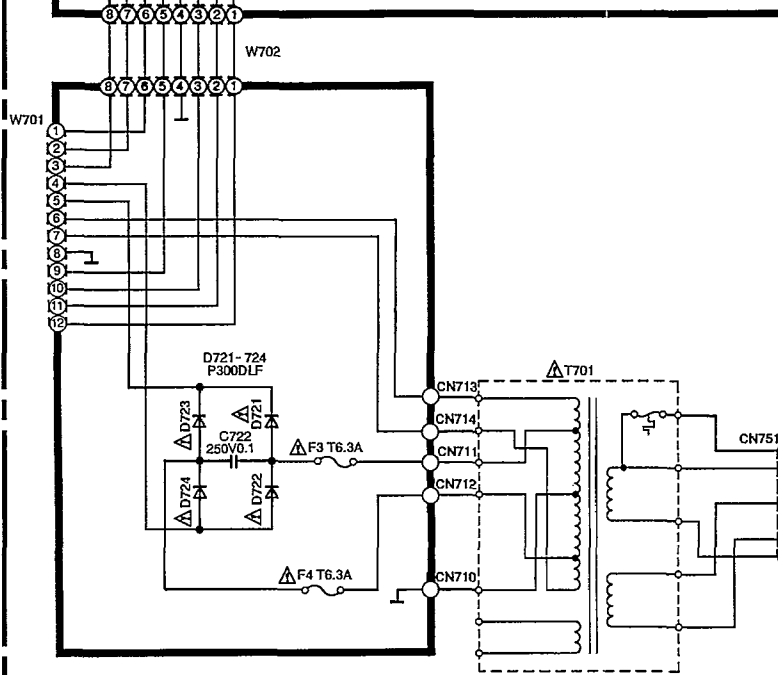
G POWER TRANSFORMER CIRCUIT (P.C.Board: on page 24)



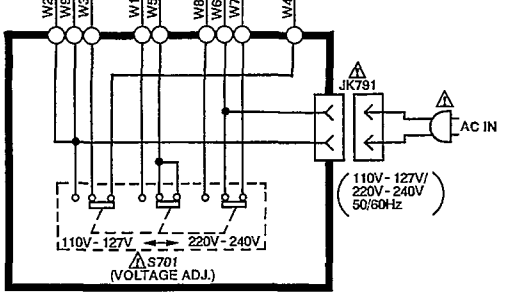
F POWER SUPPLY CIRCUIT



G POWER TRANSFORMER CIRCUIT



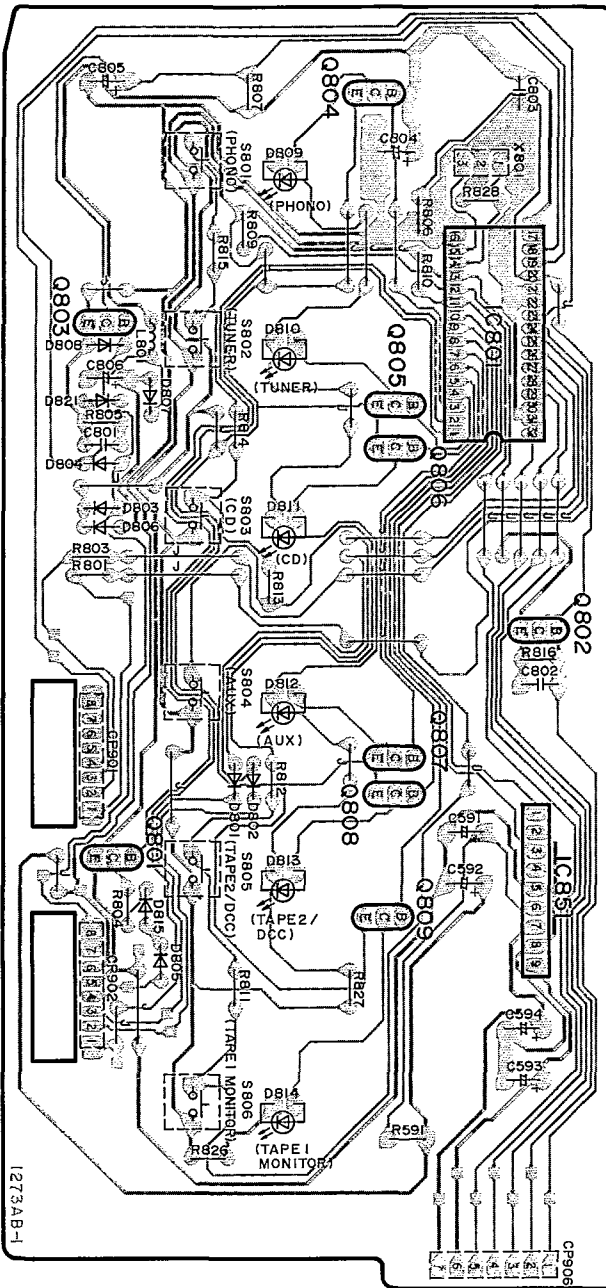
H AC IN CIRCUIT



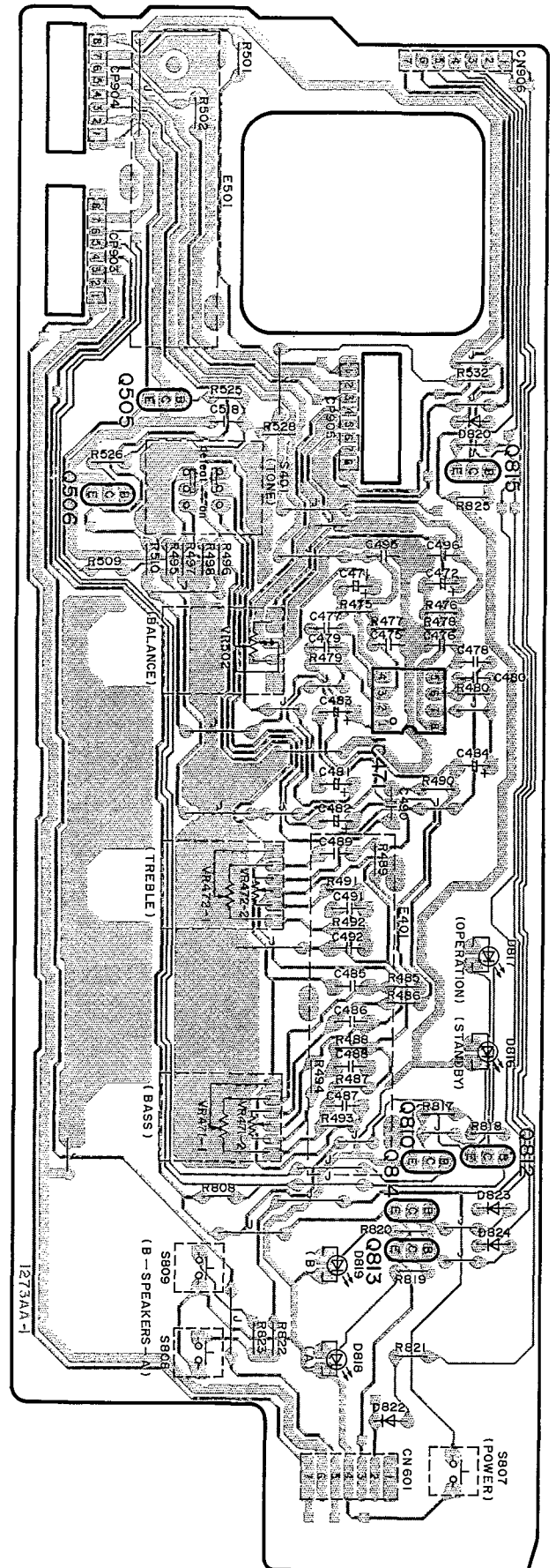
Printed Circuit Board Diagram

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

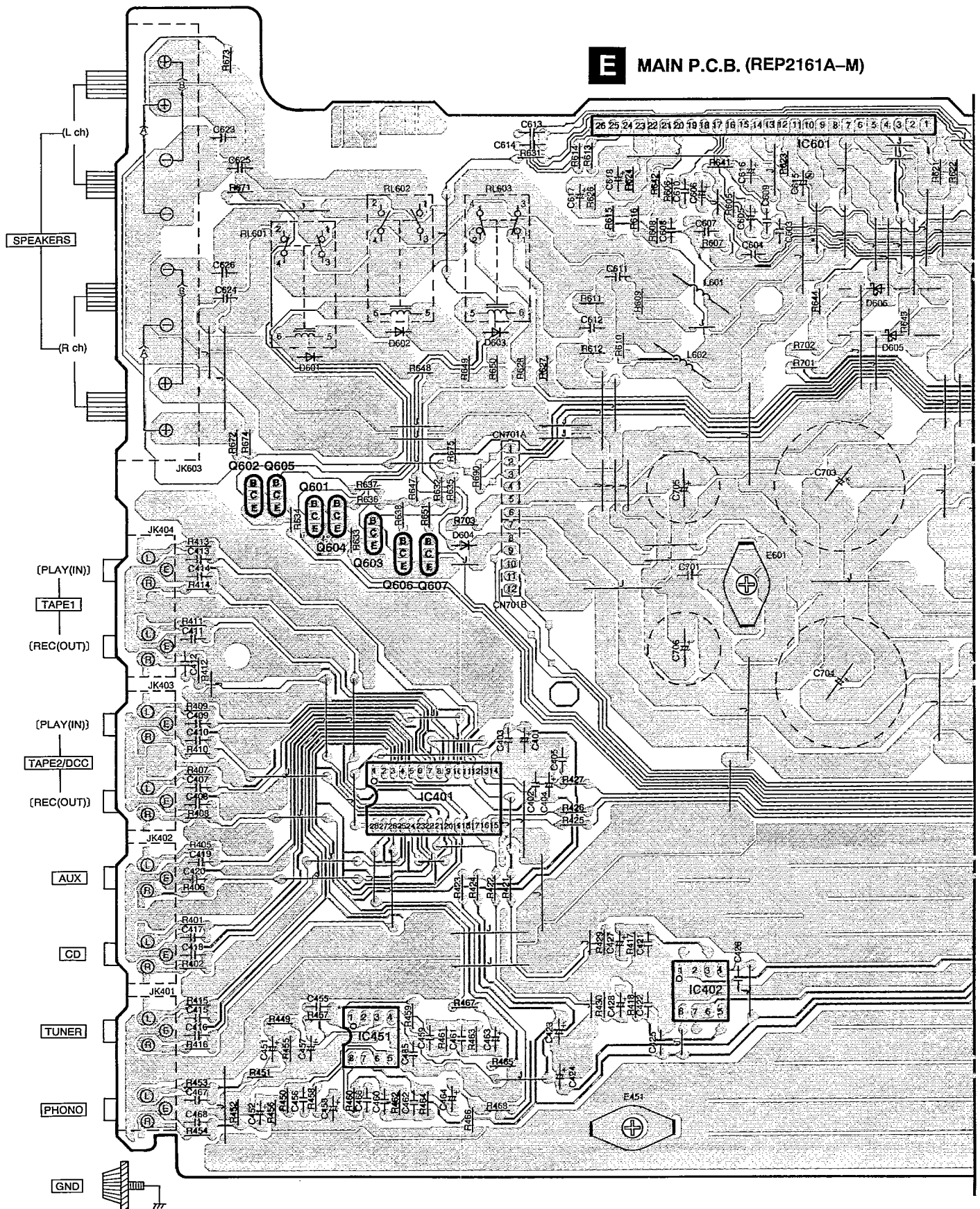
A OPERATION P.C.B. (REP2162A-S)

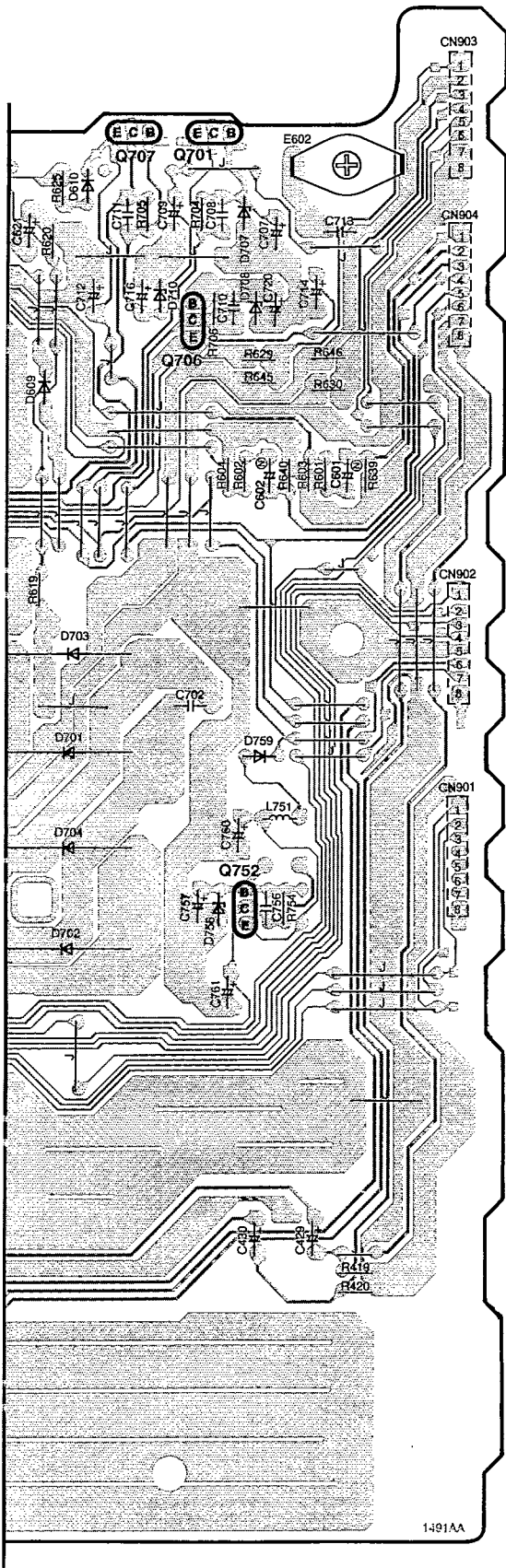


C TONE AMP P.C.B. (REP2162A-S)

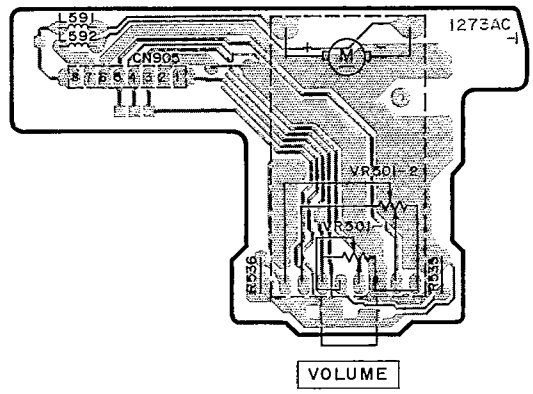


E MAIN P.C.B. (REP2161A-M)

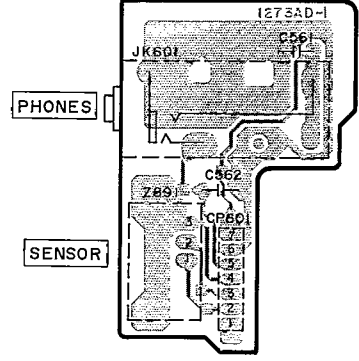




B VOLUME P.C.B. (REP2162A-S)

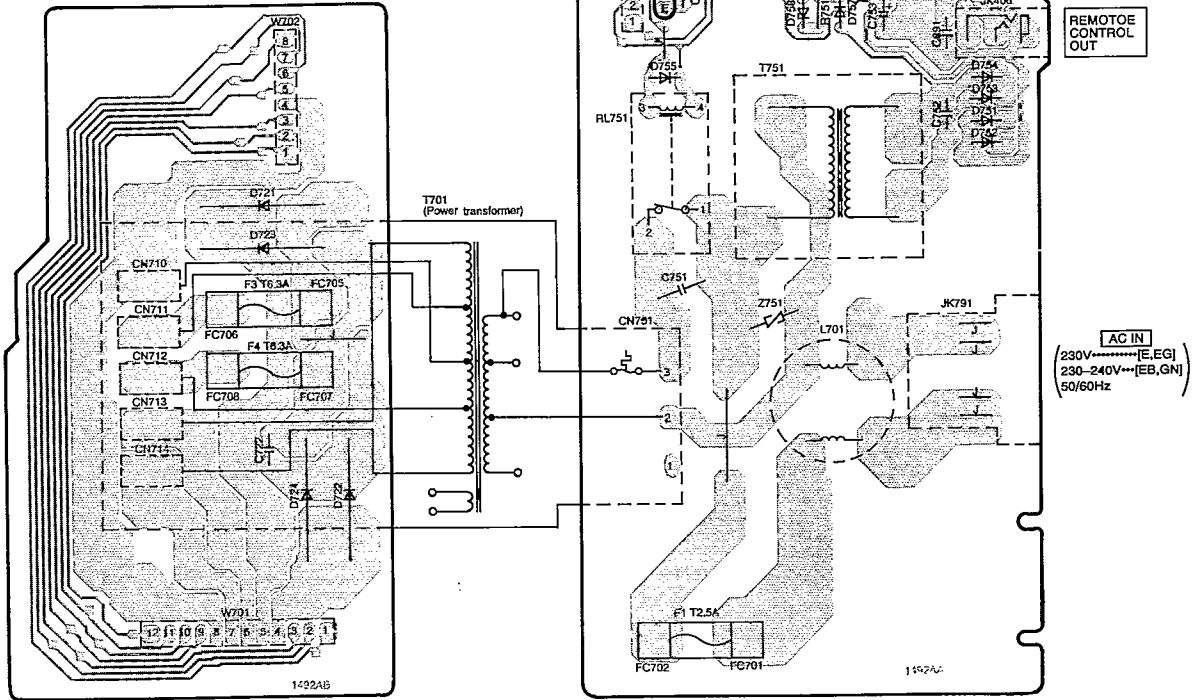


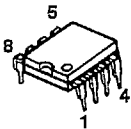
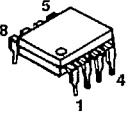
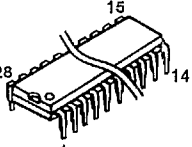
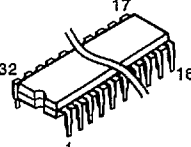
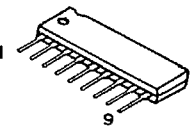
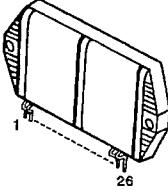



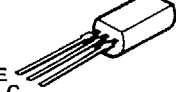
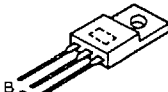
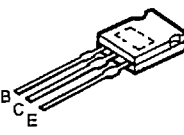
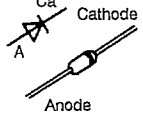
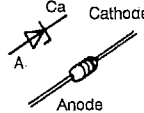
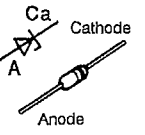
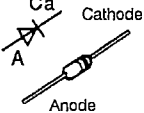
D HEADPHONES JACK P.C.B. (REP2162A-S)



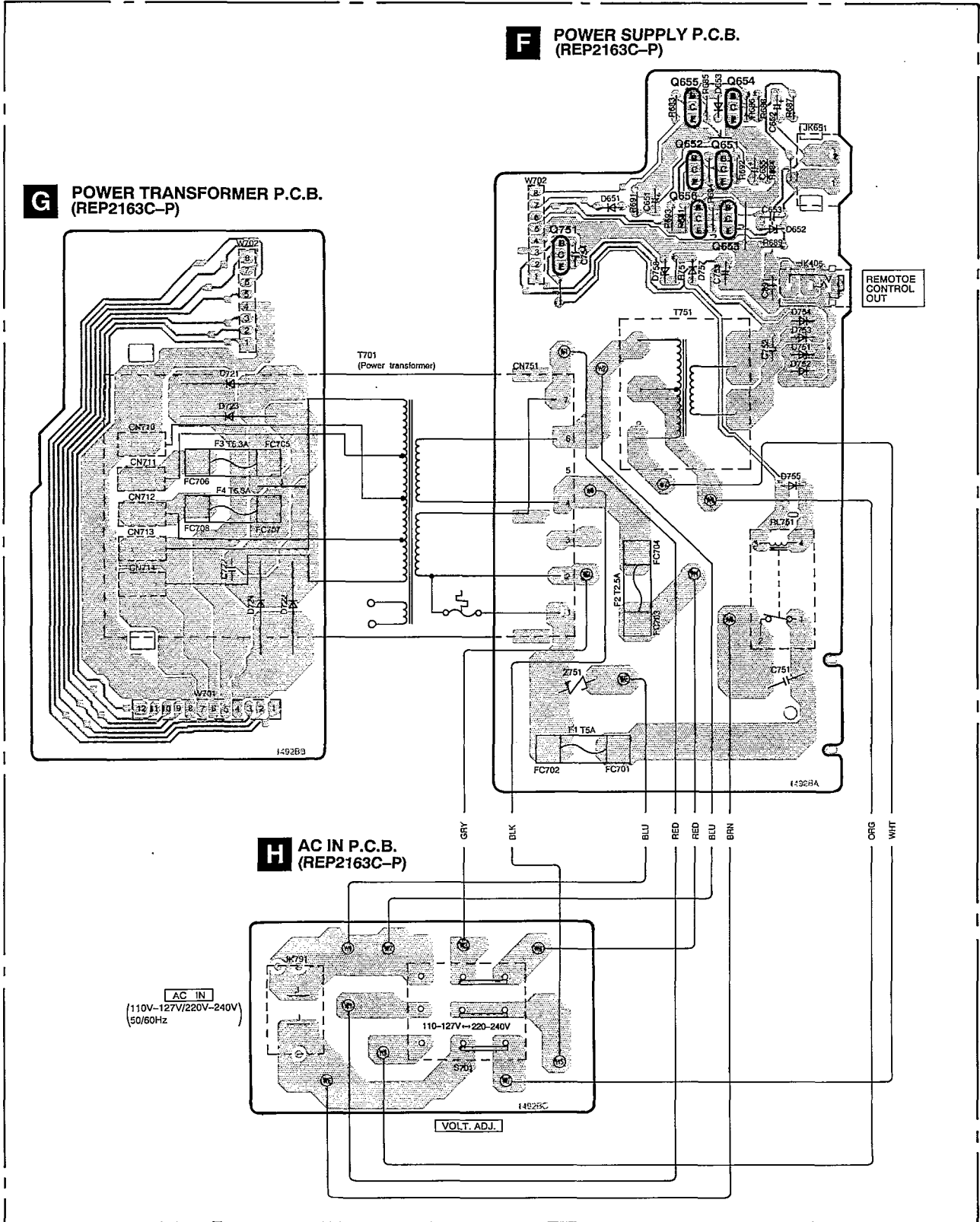
F POWER SUPPLY P.C.B.
 (REP2163A-P...[E,EB,EG])
 (REP2163B-P...[GN])

G POWER TRANSFORMER P.C.B.
 (REP2163A-P...[E,EB,EG])
 (REP2163B-P...[GN])



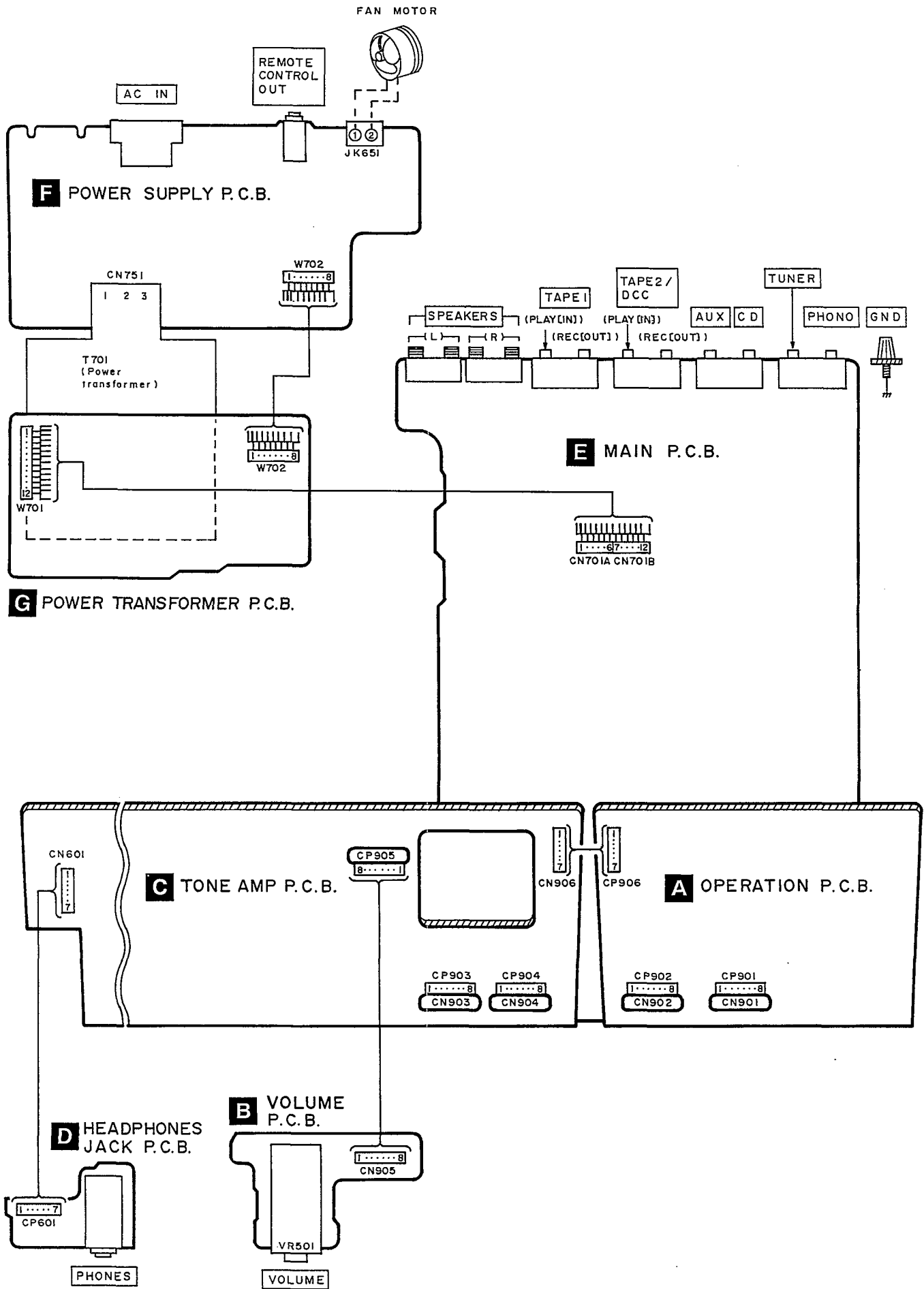
<p>AN6558F UPC4570C</p> 	<p>M5218AP</p> 	<p>NJU7312AL</p> 	<p>M37470M2242S</p> 	<p>BA6218</p> 	<p>RSN3306A</p> 
	<p>UN421FTA UN4111 UN4211 2SA1309A-R 2SA1309AIRTA 2SC3311AIRTA</p>	<p>2SB621AQSTA</p> 	<p>2SC3327-A</p> 	<p>2SC3940AQSTA</p> 	<p>2SB1548PQAU 2SD2374PQAU</p> 
<p>2SD2037EFTA</p> 	<p>MA165</p> 		<p>MA4051MTA MA4056MTA MA4068L</p>	<p>MA4150M</p> 	<p>MA700 1SS291TA</p> 

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

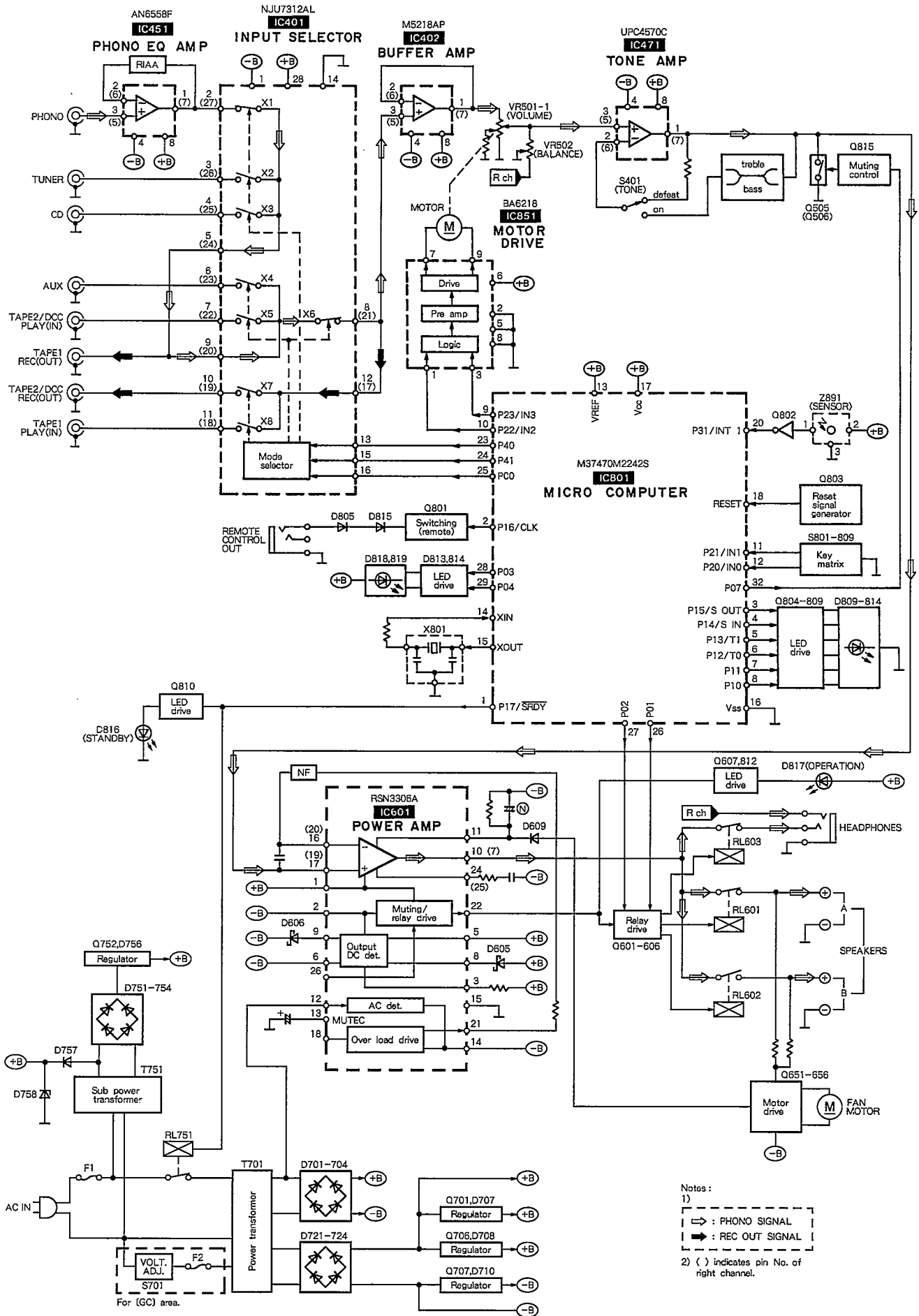


<p>1SR35200TB</p>	<p>SB360L6508</p>	<p>P300DLF</p>	<p>LN014304P LN018304P</p>
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Wiring Connection Diagram



Block Diagram



Notes:
 1)
 [---] : PHONO SIGNAL
 [---] : REC OUT SIGNAL
 2) () indicates pin No. of right channel.

■ Function of IC Terminals

● IC801 (M37470M2242S)

Pin No.	Terminal Name	I/O	Function
1	P17/SRDY	O	Relay (Power SW) drive and LED (STANDBY) drive signal output.
2	P16/CLK	O	Remote control signal output.
3	P15/SOUT	O	LED (PHONO) drive signal output.
4	P14/SIN	O	LED (TUNER) drive signal output.
5	P13/TI	O	LED (CD) drive signal output.
6	P12/TO	O	LED (AUX) drive signal output.
7	P11	O	LED (TAPE 2/DCC) drive signal output.
8	P10	O	LED (TAPE 1 MONITOR) drive signal output.
9	P23/IN3	O	Motor (volume control) drive signal output.
10	P22/IN2	O	
11	P21/IN1	I	Input select switch signal input.
12	P20/IN0	I	Switch (POWER, SPEAKER A/B) signal input.
13	VREF	I	Reference voltage input.
14	XIN	I	Oscillator signal I/O terminal. (4 MHz)
15	XOUT	O	
16	VSS	—	GND terminal.

Pin No.	Terminal Name	I/O	Function
17	VCC	I	Power supply (+5V).
18	RESET	I	System reset signal input.
19	P30/INTO	I	Back-up detect signal input.
20	P31/INTI	I	Remote control receive signal input.
21	P32/CNRO	—	No used. Connected to GND.
22	P33/CNRI	—	No used. Connected to GND.
23	P40	O	Strobe signal input for Input Selector IC (IC401).
24	P41	O	Clock signal input for Input Selector IC (IC401).
25	P00	O	Data signal input for Input Selector IC (IC401).
26	P01	O	SPEAKER A select signal output.
27	P02	O	SPEAKER B select signal output.
28	P03	O	LED (SPEAKER A) drive signal output.
29	P04	O	LED (SPEAKER B) drive signal output.
30	P05	—	No used. Connected to GND.
31	P06	—	No used. Connected to GND.
32	P07	O	Audio muting control signal output.

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 manufacture's specified parts shown in the parts list.

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

Parts without these indications can be used for all areas.

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

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

*<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)		D751-754	1SR35200TB	DIODE	Δ
				D755	MA165	DIODE	
				D756	MA4068L	DIODE	Δ
				D757	MA165	DIODE	Δ
				D758	MA4051MTA	DIODE	Δ
				D759	MA165	DIODE	
				D801-806	MA165	DIODE	
				D807	1SS291TA	DIODE	
				D808	MA165	DIODE	
				D809-813	LN018304P	L. E. D.	
				D814	LN014304P	L. E. D.	
				D815	MA165	DIODE	
				D816-819	LN018304P	L. E. D.	
				D820	MA165	DIODE	
				D821	1SS291TA	DIODE	
				D822-824	MA165	DIODE	
						VARIABLE RESISTOR (S)	
				VR471	EVJYA1F04C15	V. R. BASS	
				VR472	EVJYA1F04C15	V. R. TREBLE	
				VR501	EUWMG2020B15	V. R. VOLUME	
				VR502	EVJ02QF04G15	V. R. BALANCE	
						COMPONENT COMBINATION (S)	
				Z751	ERZV10V511CS	SURGE ABSORBER	Δ
				Z891	RCDHC-237	REMOTE SENSOR	
						COIL (S)	
				L591, 592	ELESN101KA	COIL	
				L601, 602	SLQY07G-40	COIL	
				L701	SLQZ650MH49	COIL	Δ (E, EB, EG, GN)
				L751	ELESN101KA	COIL	
				L801	ELEXT101KA9	COIL	
						TRANSFORMER (S)	
				T701	RTP1N5E022-W	POWER TRANSFORMER (MAIN)	Δ (E, EG)
				T701	RTP1N5B020-W	POWER TRANSFORMER (MAIN)	Δ (EB, GN)
				T701	RTP1N5E023-W	POWER TRANSFORMER (MAIN)	Δ (GC)
				T751	RTP115E003-V	POWER TRANSFORMER (SUB)	Δ (E, EB, EG, GN)
				T751	RTP115E005-V	POWER TRANSFORMER (SUB)	Δ (GC)
						OSCILLATOR (S)	
IC401	NJU7312AL	I. C, INPUT SELECTOR					
IC402	M5218AP	I. C, BUFFER AMP.					
IC451	AN6558F	I. C, PHONO EQ AMP.					
IC471	UPC4570C	I. C, TONE AMP.					
IC601	RSN3306A	I. C, POWER AMP.	Δ				
IC801	M37470M242S	I. C, MICRO COMPUTER					
IC851	BA6218	I. C, MOTOR DRIVE					
		TRANSISTOR (S)					
Q505, 506	2SC3327-A	TRANSISTOR					
Q601-607	2SC3311A1RTA	TRANSISTOR					
Q651, 652	2SA1309A1RTA	TRANSISTOR					
Q653	2SB621AQSTA	TRANSISTOR	Δ				
Q654-656	2SA1309A1RTA	TRANSISTOR					
Q701	2SD2374PQAU	TRANSISTOR	Δ				
Q706	2SD2037EFTA	TRANSISTOR	Δ				
Q707	2SB1548PQAU	TRANSISTOR	Δ				
Q751	UN421FTA	TRANSISTOR					
Q752	2SC3940AQSTA	TRANSISTOR	Δ				
Q801	UN4211	TRANSISTOR					
Q802	2SA1309A-R	TRANSISTOR					
Q803	UN4211	TRANSISTOR					
Q804-809	UN4111	TRANSISTOR					
Q810	UN4211	TRANSISTOR					
Q812	UN4211	TRANSISTOR					
Q813, 814	UN4111	TRANSISTOR					
Q815	2SA1309A1RTA	TRANSISTOR					
		DIODE (S)					
D601-603	MA165	DIODE					
D604	MA700	DIODE					
D605, 606	SB360L6508	DIODE					
D609, 610	MA165	DIODE					
D651	MA165	DIODE					
D652	MA4056MTA	DIODE					
D653	MA165	DIODE					
D701-704	P300DLF	DIODE	Δ				
D707	MA4068L	DIODE	Δ				
D708	MA4150M	DIODE	Δ				
D710	MA4150M	DIODE	Δ				
D721-724	P300DLF	DIODE	Δ				

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
X801	EFOEC4004T4	OSCILLATOR(4 MHz)		RL601-603	RSY0013M-0	RELAY	△
		FUSE (S)		RL751	RSY0019M-0	RELAY	△
F1	XBA2C25TB0	FUSE, 250V, T2. 5A	△ (E, EB, EG, GN)			JACK(S)	
F1	XBA2C50TB0	FUSE, 250V, T5A	△ (GC)	JK401-404	SJF3069N	PHONO, TUNER, etc TERMINAL	
F2	XBA2C25TB0	FUSE, 250V, T2. 5A	△ (GC)	JK406	RJJ33TR01	REMOTE CONT. OUT	
F3, 4	XBA2C63TB0	FUSE, 250V, T6. 3A	△	JK601	RJJ63TA01	HEADPHONES	
		SWITCH(ES)		JK603	RJH4801M-1	SP TERMINAL	
S401	ESB68047	SW, TONE ON/DEFEAT		JK651	RJS1A7002-1	FAN MOTOR	
S701	ESD26840A	SW, VOLTAGE ADJ	△ (GC)	JK791	SJS9236	AC INLET	△ (E, EB, EG)
S801	EVQ21405R	SW, PHONO		JK791	SJS9231-1B	AC INLET	△ (GC)
S802	EVQ21405R	SW, TUNER		JK791	SJSD16	AC INLET	△ (GN)
S803	EVQ21405R	SW, CD					
S804	EVQ21405R	SW, AUX					
S805	EVQ21405R	SW, TAPE2/DCC					
S806	EVQ21405R	SW, TAPE1 MONITOR					
S807	EVQ21405R	SW, POWER					
S808	EVQ21405R	SW, SPEAKERS (A)					
S809	EVQ21405R	SW, SPEAKERS (B)					
		CONNECTOR (S)					
CN601	RJU057W007	CONNECTOR (7P)					
CN710-714	RJS1A1101T1	CONNECTOR (1P)					
CN751	SJS305-1	CONNECTOR (3P)	(E, EB, EG, GN)				
CN751	SJS702-2	CONNECTOR (7P)	(GC)				
CN901-905	RJU003K008M1	CONNECTOR (8P)					
CN906	SJS50782JQH	CONNECTOR (7P)					
CN701A	RJS1A6606	CONNECTOR (6P)					
CN701B	RJS1A6606	CONNECTOR (6P)					
CP601	RJT057W007-1	CONNECTOR (7P)					
CP901-905	RJT003K008-1	CONNECTOR (8P)					
CP906	SJT30745JQ	CONNECTOR (7P)					
		GND PLATE (S)					
E401	RSC0377	GND PLATE					
E451	SNE1004-2	GND PLATE					
E501	RSC0377	GND PLATE					
E601, 602	SNE1004-2	GND PLATE					
		FUSE HOLDER (S)					
FC701, 702	EYF52BC	FUSE HOLDER					
FC703, 704	EYF52BC	FUSE HOLDER	(GC)				
FC705-708	EYF52BC	FUSE HOLDER					
		RELAY(S)					

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)

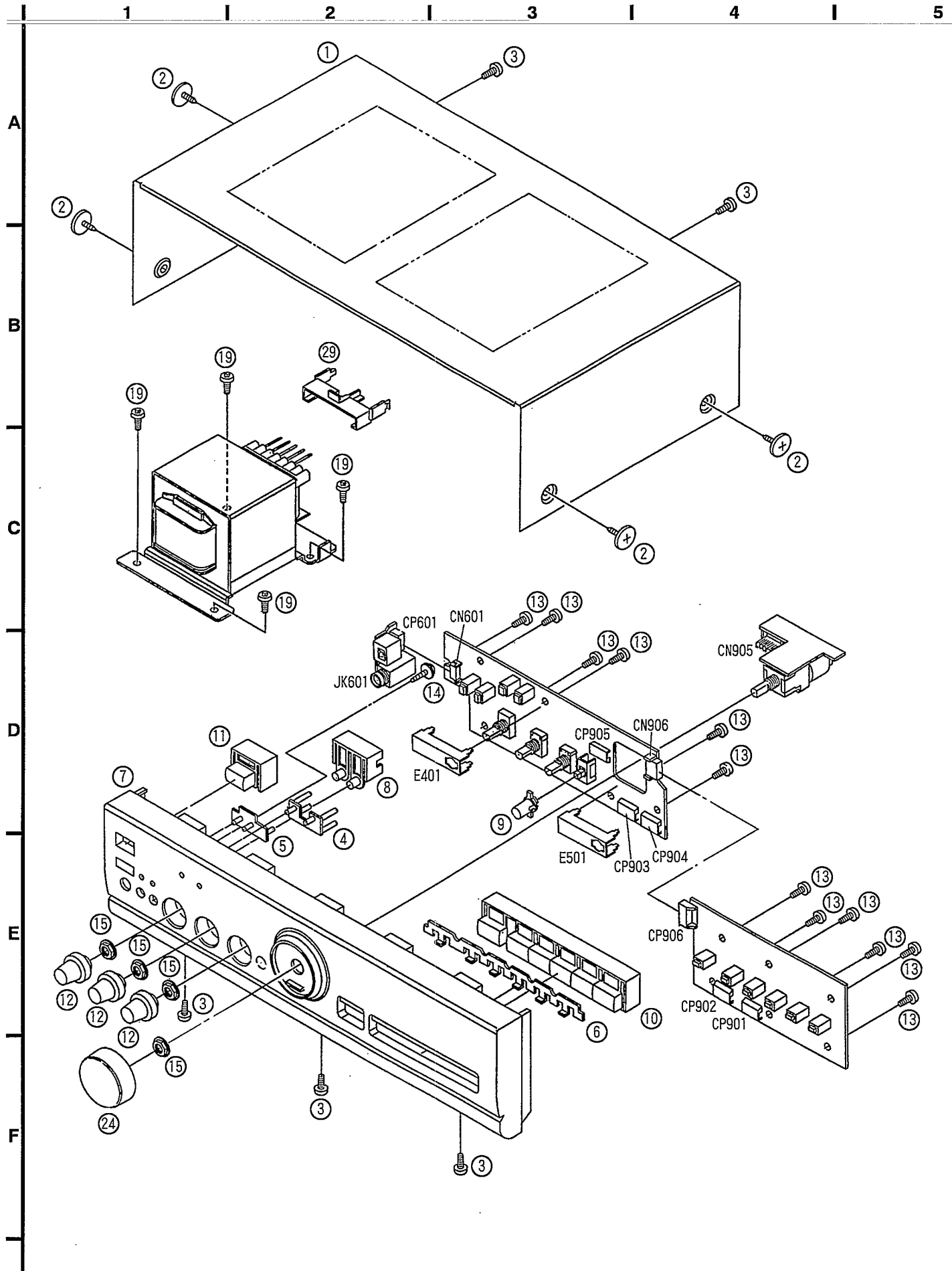
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R624	ERDS2TJ224T	1/4W 220K	R822	ERDS2TJ821	1/4W 820
R401, 402	ERDS2TJ102	1/4W 1K	R625 Δ	ERD25FJ220	1/4W 22	R823	ERDS2TJ102	1/4W 1K
R405-416	ERDS2TJ102	1/4W 1K	R626	ERDS2TJ473	1/4W 47K	R825	ERDS2TJ473	1/4W 47K
R417, 418	ERDS2TJ473	1/4W 47K	R627, 628	ERG1SJ181E	1W 180	R826	ERDS2TJ181T	1/4W 180
R419, 420	ERDS2TJ104	1/4W 100K	R629, 630	ERG1SJ151E	1W 150	R827	ERDS2TJ331	1/4W 330
R421-424	ERDS2TJ102	1/4W 1K	R631	ERDS2TJ182	1/4W 1.8K	R828	ERDS2TJ102	1/4W 1K
R425-427	ERDS2TJ103	1/4W 10K	R632-634	ERDS2TJ472	1/4W 4.7K			CAPACITORS
R429, 430	ERDS2TJ104	1/4W 100K	R635-638	ERDS2TJ103	1/4W 10K			
R449, 450	ERDS2EJ121	1/4W 120	R639, 640	ERDS2TJ474	1/4W 470K	C401	ECEA1VKA4R7B	35V 4.7U
R451, 452	ERDS2TJ224T	1/4W 220K	R641, 642	ERDS2TJ221	1/4W 220	C402, 403	ECBT1E103ZF	25V 0.01U
R453, 454	ERDS2TJ102	1/4W 1K	R643, 644	ERDS2TJ154	1/4W 150K	C404	ECEA1VKA4R7B	35V 4.7U
R455, 456	ERDS2TJ563	1/4W 56K	R645, 646Δ	ERDS1FVJ470T	1/2W 47	C405	ECBT1H101KB5	50V 100P
R457, 458	ERDS2TJ271	1/4W 270	R647	ERDS2TJ682T	1/4W 6.8K	C407-422	ECBT1H101KB5	50V 100P
R459, 460	ERDS2TJ680T	1/4W 68	R648-650Δ	ERD25FVJ391T	1/4W 390	C423, 424	RCE1CKA220BG	16V 22U
R461, 462	ERDS2TJ184T	1/4W 180K	R651	ERDS2TJ103	1/4W 10K	C425, 426	ECBT1E103ZF	25V 0.01U
R463, 464	ERDS2TJ123	1/4W 12K	R671-674	ERDS2TJ223	1/4W 22K	C427-430	RCE1CKA100BG	16V 10U
R465, 466	ERDS2TJ563	1/4W 56K	R675	ERDS2TJ682T	1/4W 6.8K	C451, 452	ECEA1VKA4R7B	35V 4.7U
R467, 468	ERDS2TJ102	1/4W 1K	R681	ERDS2TJ332	1/4W 3.3K	C455, 456	ECBT1H102KB5	50V 1000P
R475, 476	ERDS2TJ471	1/4W 470	R683	ERDS2TJ103	1/4W 10K	C457, 458	RCE1AKA330BG	10V 33U
R477, 478	ERDS2TJ104	1/4W 100K	R684	ERDS2TJ153	1/4W 15K	C459, 460	ECQB1H223JF3	50V 0.022U
R479, 480	ERDS2TJ474	1/4W 470K	R685, 686	ERDS2TJ333	1/4W 33K	C461, 462	ECQB1H682JF3	50V 6800P
R485, 486	ERDS2TJ223	1/4W 22K	R687	ERDS2TJ103	1/4W 10K	C463, 464	ECEA1VKA4R7B	35V 4.7U
R487-490	ERDS2TJ392T	1/4W 3.9K	R688	ERDS2TJ222	1/4W 2.2K	C465, 466	ECBT1E103ZF	25V 0.01U
R491, 492	ERDS2TJ102	1/4W 1K	R689	ERDS2TJ270T	1/4W 27	C467, 468	ECBT1H181KB5	50V 180P
R493, 494	ERDS2TJ563	1/4W 56K	R690	ERDS2TJ223	1/4W 22K	C471, 472	RCE1HKA3R3BG	50V 3.3U
R495, 496	ERDS2TJ223	1/4W 22K	R691	ERDS2TJ104	1/4W 100K	C475, 476	ECBT1H101KB5	50V 100P
R497, 498	ERDS2TJ392T	1/4W 3.9K	R692	ERDS2TJ103	1/4W 10K	C477, 478	ECBT1H221KB5	50V 220P
R501, 502	ERDS2TJ222	1/4W 2.2K	R693	ERDS2TJ223	1/4W 22K	C479, 480	ECBT1H560J5	50V 56P
R509, 510	ERDS2TJ222	1/4W 2.2K	R694	ERDS2TJ335T	1/4W 3.3M	C481-484	ECEA1VKA4R7B	35V 4.7U
R525, 526	ERDS2TJ102	1/4W 1K	R701-703Δ	ERD25FJ6R8	1/4W 6.8	C485, 486	ECFR1E123KR	25V 0.012U
R528	ERDS2TJ394	1/4W 390K	R704	ERDS2TJ562	1/4W 5.6K	C487, 488	ECQV1H683JM3	50V 0.068U
R532	ERDS2TJ103	1/4W 10K	R705, 706	ERDS2TJ392T	1/4W 3.9K	C489, 490	ECQB1H392JF3	50V 3900P
R535, 536	ERDS2TJ103	1/4W 10K	R751	ERDS2TJ153	1/4W 15K	C491, 492	ECFR1E273KR	25V 0.027U
R591 Δ	ERDS1FVJ100T	1/2W 10	R754	ERDS2TJ562	1/4W 5.6K	C495, 496	ECBT1E103ZF	25V 0.01U
R601, 602	ERDS2TJ221	1/4W 220	R801	ERDS2TJ103	1/4W 10K	C518	ECBT1E103ZF	25V 0.01U
R603, 604	ERDS2TJ563	1/4W 56K	R803	ERDS2TJ103	1/4W 10K	C561, 562	ECBT1H102KB5	50V 1000P
R605, 606	ERDS2TJ182	1/4W 1.8K	R804	ERDS2TJ102	1/4W 1K	C591, 592	RCE0JKA101BV	6.3V 100U
R607, 608	ERDS2TJ563	1/4W 56K	R805, 806	ERDS2TJ103	1/4W 10K	C593, 594	ECEA1AKA220B	10V 22U
R609, 610	ERDS2TJ100	1/4W 10	R807	ERDS2TJ104	1/4W 100K	C601, 602	ECEA1EKN2R2B	25V 2.2U
R611, 612Δ	ERDS1FVJ8R2T	1/2W 8.2	R808-810	ERDS2TJ103	1/4W 10K	C603, 604	ECBT1H561KB5	50V 560P
R613, 614	ERDS2TJ102	1/4W 1K	R811	ERDS2TJ821	1/4W 820	C605, 606	RCE1JM330BV	63V 33U
R615	ERDS2TJ184T	1/4W 180K	R812	ERDS2TJ102	1/4W 1K	C607, 608	ECCR1H100K5	50V 10P
R616	ERDS2TJ154	1/4W 150K	R813	ERDS2TJ122	1/4W 1.2K	C609, 610	ECBT1H151KB5	50V 150P
R619	ERDS2TJ684	1/4W 680K	R814	ERDS2TJ152	1/4W 1.5K	C611, 612	ECQV1H473JM3	50V 0.047U
R620	ERDS2TJ473	1/4W 47K	R815	ERDS2TJ182	1/4W 1.8K	C613, 614	ECBA1H681KB5	50V 680P
R621, 622Δ	ERD25FVJ180T	1/4W 18	R816	ERDS2TJ473	1/4W 47K	C615	ECEA2AN2R2SB	100V 2.2U
R623	ERDS2TJ684	1/4W 680K	R817	ERDS2TJ221	1/4W 220	C616	ECEA1JU220	63V 22U
			R818-820	ERDS2TJ561	1/4W 560	C617	RCE1HM470BV	50V 47U
			R821	ERDS2TJ223	1/4W 22K			

Ref. No.	Part No.	Values & Remarks				
C618	ECEA2AU100	100V 10U				
C621	ECEA2AU100	100V 10U				
C623-626	ECQB1H223JF3	50V 0.022U				
C651	ECEA1HKA2R2B	50V 2.2U				
C652	RCE1CKA100BG	16V 10U				
C653	ECBT1E223ZF	25V 0.022U				
C655	RCE0JKA221BV	6.3V 220U				
C701	ECBT1E103ZF	25V 0.01U				
C702	ECQE2104KF3	250V 0.1U				
C703, 704 ^Δ	ECE575V752UX	75V 7500U				
C705, 706 ^Δ	ECA1HM332E	50V 3300U				
C707	RCE1CKA470BG	16V 47U				
C708	ECKR1H103ZF5	50V 0.01U				
C709	RCE1CKA470BG	16V 47U				
C710, 711	ECKR1H103ZF5	50V 0.01U				
C712	ECEA1EKA220B	25V 22U				
C713	ECBT1E103ZF	25V 0.01U				
C714	ECEA1EKA220B	25V 22U				
C716	ECEA1EKA220B	25V 22U				
C720	ECEA1EKA220B	25V 22U				
C722	ECQE2104KF3	250V 0.1U				
C751 ^Δ	ECKWNS102MBM	400V 1000P				
C752	ECKR1H103ZF5	50V 0.01U				
C753 ^Δ	ECA1EM102B	25V 1000U				
C754	ECBT1E103ZF	25V 0.01U				
C756	ECBT1E103ZF	25V 0.01U				
C757	RCE1CKA470BG	16V 47U				
C760	RCE1AKA101BG	10V 100U				
C761	ECEA1EKA220B	25V 22U				
C801	ECBT1C103NS5	16V 0.01U				
C802	ECQB1H103JF3	50V 0.01U				
C803	ECBT1C103NS5	16V 0.01U				
C804	RCE0JM102BV	6.3V 1000U				
C805	RCE1HKAR47BG	50V 0.47U				
C806	ECEA1HKA2R2B	50V 2.2U				
C891	ECFR1E392KR	25V 3900P				

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	RKM0036E-K	CABINET		P1	RPG2636	PACKING CASE	(E, EG, GC, GN)
2	SNE2129-3	SCREW		P1	RPG2637	PACKING CASE	(EB)
3	XTBS3+8JFZ1	SCREW		P2	RPM0684-2	PAD	
4	RGL0184A-Q1	LEADING LIGHT PANEL		P3	RPQ0164	PAD	
5	RGL0185A-Q	LEADING LIGHT PANEL		P4	SPP756	PROTECTION COVER	
6	RGL0229-Q	LEADING LIGHT PANEL		P5	RPF0139	PROTECTION COVER	
7	RFKGV620E-K	FRONT PANEL ASS' Y		P6	RPH0032	PROTECTION SHEET	(EB, GN)
8	RGU0887A-K1	BUTTON, SP				ACCESSORIES	
9	RGU0889-K	BUTTON, TONE					
10	RGU1038-1K	BUTTON, SELECTOR					
11	RGU1042-K	BUTTON, POWER		A1	RJA0019-2K	AC MAINS LEAD	△ (E, EG, GC) (SF)
12	RGW0177A-K	KNOB, TONE		A1	VJA0733	AC MAINS LEAD	△ (EB) <VRD> (SF)
13	RHD26017	SCREW		A1	RJA0036-K	AC MAINS LEAD	△ (GN)
14	RHD26018	SCREW		A2	RAK-SU129WH	REMOTE CONTROL TRANSMITTER	
15	RHN90001	NUT		A2-1	RKK0057-K	BATTERY COVER	
16	SHR9814	CLUMPER		A3	RQA0013	WARRANTY CARD	(E, EB, EG)
17	SNE2123	GND SCREW		A3	RQX7433ZA	WARRANTY CARD	(GN)
18	XTB3+20JFZ	SCREW		A4	RQC0169	SERVICE CENTER LIST	
19	XTB3+8JFZ	SCREW		A5	RFKSUV620E-K	INSTRUCTIONS MANUAL	(E)
20	XTWS3+8T	SCREW		A5	RQT3112-B	INSTRUCTIONS MANUAL	(EB, GN)
21	XTW3+15T	SCREW		A5	RQT3110-D	INSTRUCTIONS MANUAL	(EG)
22	REM0020-1	FAN ASS' Y		A5	RQT3151-G	INSTRUCTIONS MANUAL	(GC)
22-1	SHE232-1	FAN		A6	SJP5213-2	POWER PLUG ADAPTOR	△ (GC)
22-2	SJS271	SPRING				GREASE OR JIG/TOOL	
22-3	RMQ0209-K	FAN CASE					
22-4	MDN-4RB4MRC	MOTOR					
22-5	RMQ0208-K	FAN CAP		SA1	RFKX0002	COMPOUND GREASE	
22-6	RMQ0212-K	TERMINAL CAP					
23	RGR0226A-B1	REAR PANEL	(E)				
23	RGR0226B-A1	REAR PANEL	(EB)				
23	RGR0226A-A1	REAR PANEL	(EG)				
23	RGR0226C-A	REAR PANEL	(GC)				
23	RGR0226A-C	REAR PANEL	(GN)				
24	RGW0201-K	KNOB, VOLUME					
25	RFKJAGX170PK	BOTTOM CHASSIS ASS' Y					
25-1	RKA0053-A	FOOT					
26	RKQ0089	SPACER					
27	RMCO158	ANGLE					
28	RMG0332-K	RUBBER					
29	RMNO191	SPACER					
30	RSCO105-2	SHIELD PLATE					
31	RWJ1808120KK	FLAT CABLE (8P)W702					
32	RWZ120UNW090	PROTECT TUBE					
33	RWJ1812430KQ	FLAT CABLE (12P)W701					
34	RMZ0339	SHIELD COVER					
35	SJS9231A	AC INLET COVER	(GC)				

Cabinet Parts Location



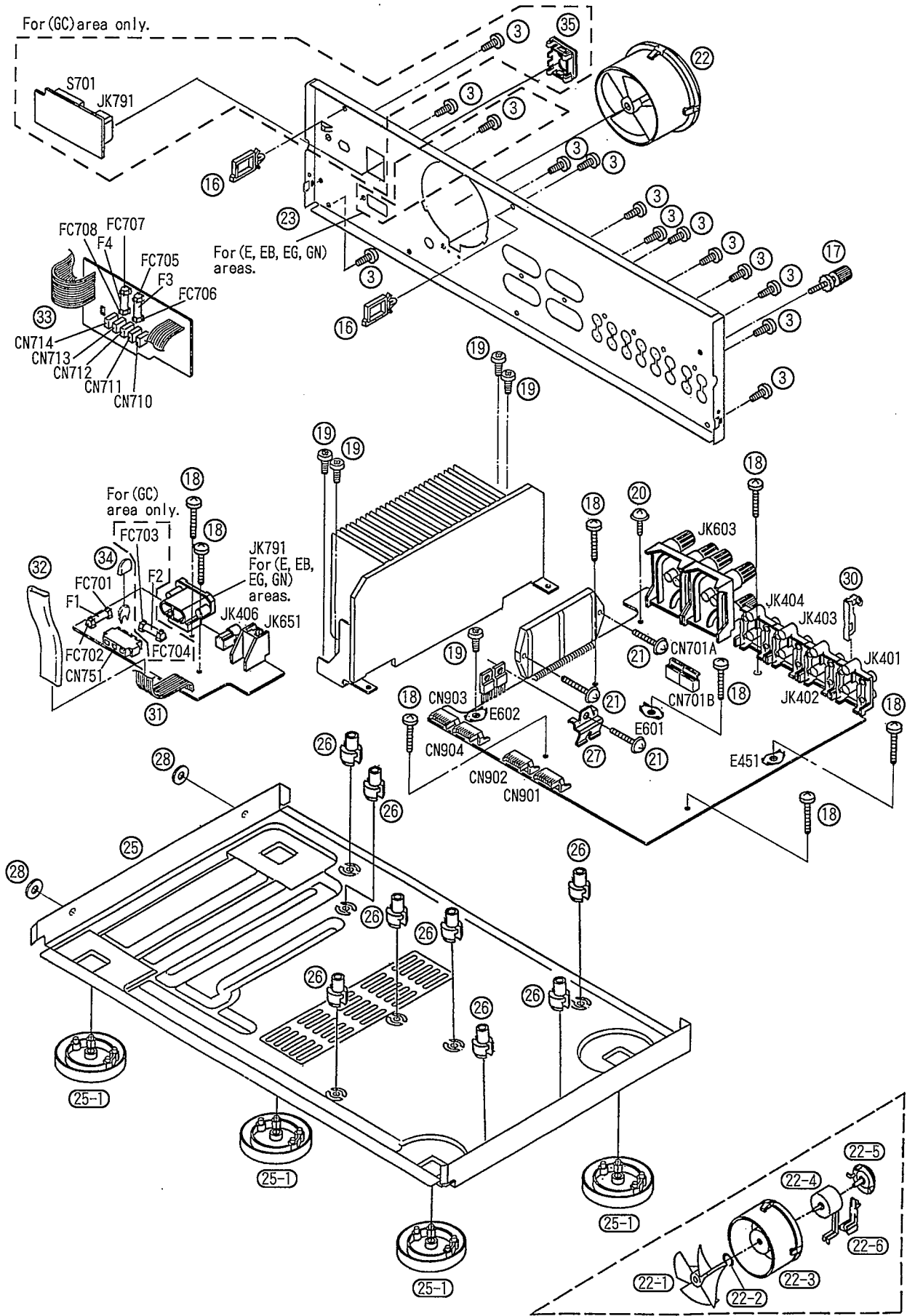
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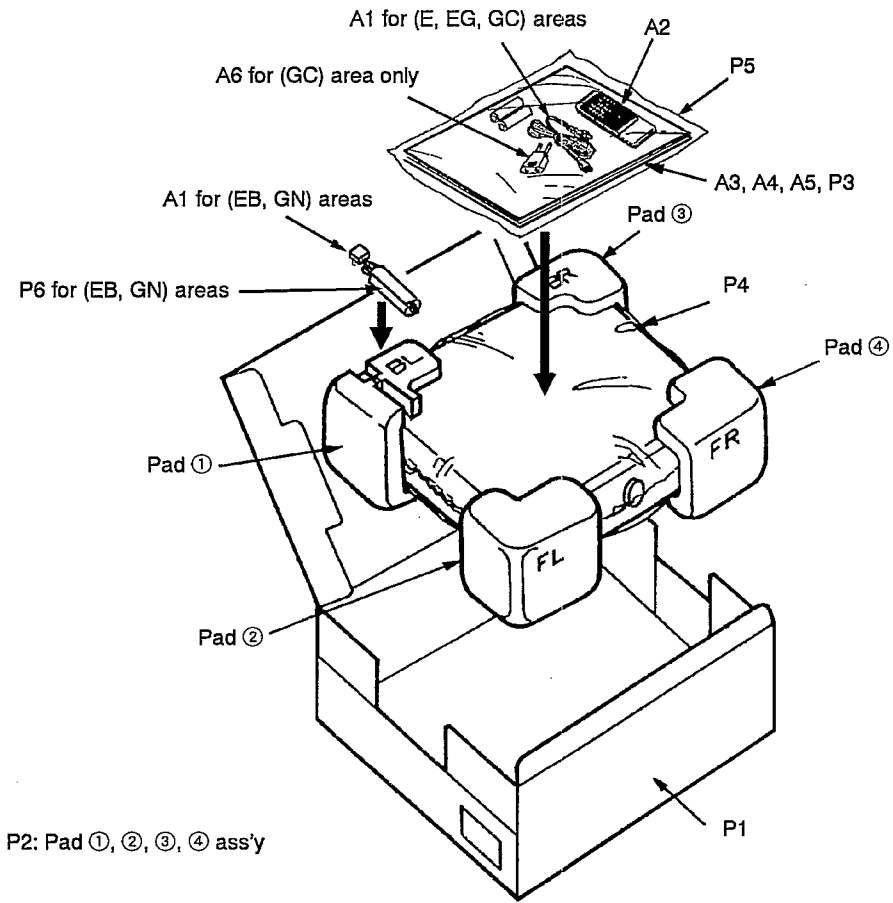
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■ Packaging

1065



REPLACEMENT PARTS LIST

Notes: *Important safety notice:

 Components identified by Δ mark have special characteristics important for safety.

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

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

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

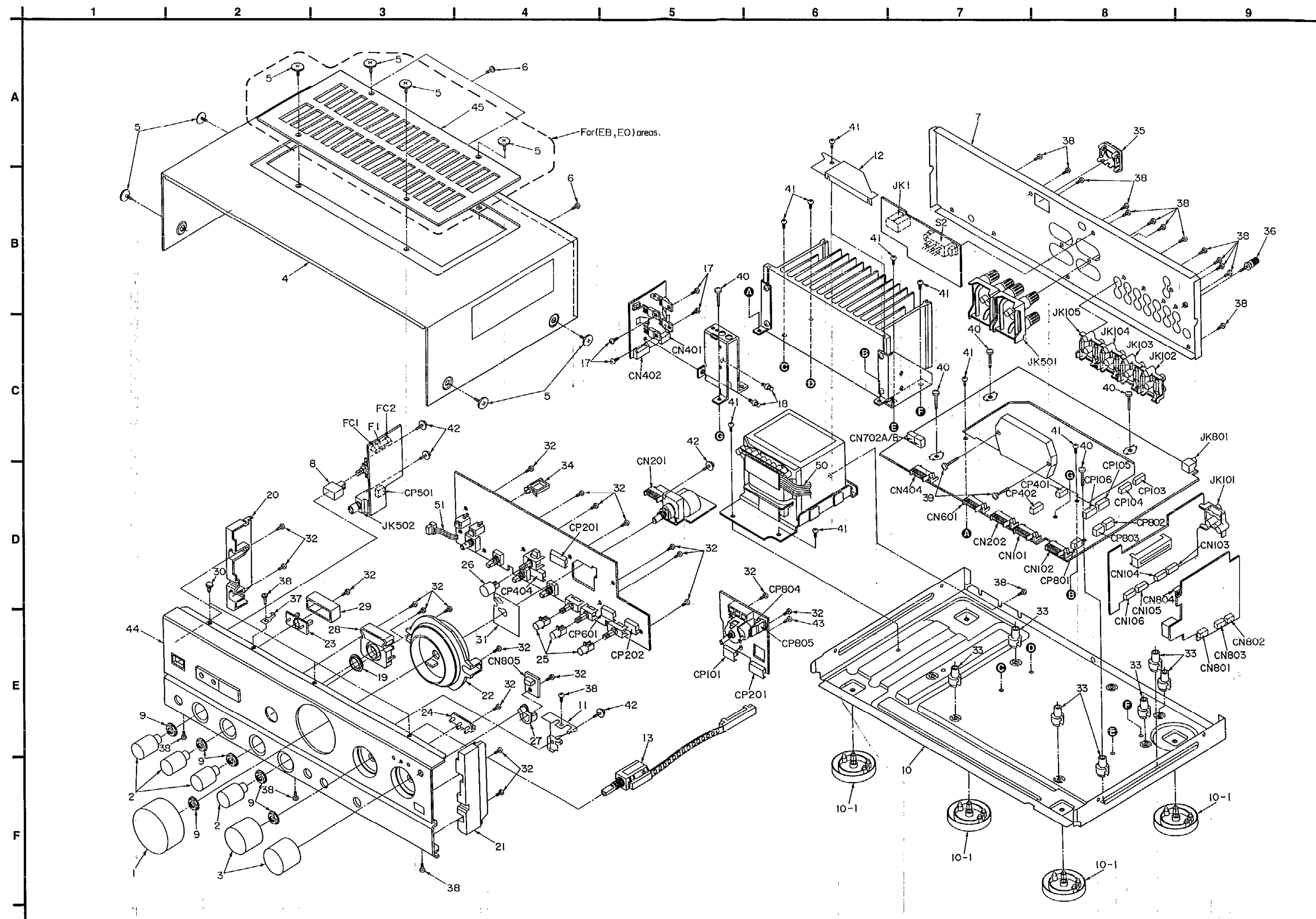
Parts without these indications can be used for all areas.

*Remote Control Ass'y:

Supply period for three years from termination of production.

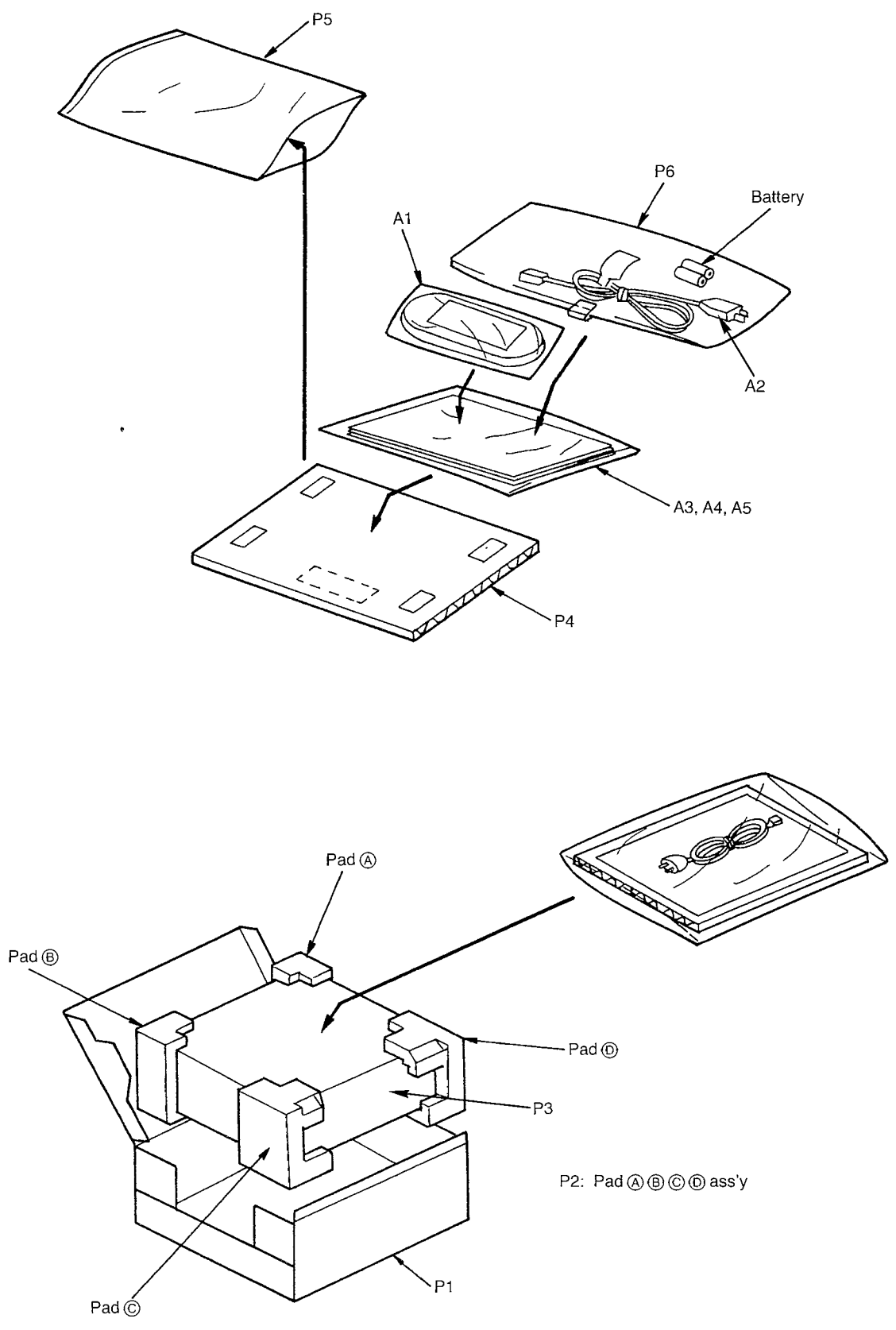
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		D705	1SR35200TB	DIODE	Δ
				D709	MA165	DIODE	Δ
				D751	MA4160M	DIODE	
IC101	AN6558F	I. C. PHONO EQ AMP.		D752, 753	MA4082MTA	DIODE	
IC251	BA6218	I. C. MOTOR DRIVE		D761	MA4068M	DIODE	
IC301	UPC4570C	I. C. TONE AMP.		D801	1SS291TA	DIODE	
IC401	AN7062N	I. C. VOLTAGE AMP.		D802-808	MA165	DIODE	
IC501	SVI3205B	I. C. POWER AMP.		D810	LN038568PH	DIODE (LED)	
IC801	M37470M2063S	I. C. MICRO COMPUTER				VARIABLE RESISTOR(S)	
IC802	MN1381STA	I. C. RESET					
		TRANSISTOR(S)		VR201	EUWMHX001B15	V. R. VOLUME CONTROL	
				VR202	EVJ02QFA2G15	V. R. BALANCE	
Q401, 402	2SA1123RSTTA	TRANSISTOR		VR301, 302	EVJYA1FA2C15	V. R. BASS/TREBLE CONTROL	
Q451, 452	2SC2631RSTTA	TRANSISTOR		VR451, 452	EVNDXAA00B13	V. R. ICQ ADJ.	
Q453, 454	2SC3311A-Q	TRANSISTOR				THERMISTOR(S)	
Q455, 456	2SA1309A-R	TRANSISTOR					
Q457, 458	2SC2631RSTTA	TRANSISTOR		TH201, 202	ERTD2ZHL104T	THERMISTOR	
Q459, 460	2SA1123RSTTA	TRANSISTOR		TH451, 452	ERTD2ZGL251T	THERMISTOR	
Q461, 462	2SK20130Y	TRANSISTOR				COMPONENT COMBINATION(S)	
Q463, 464	2SJ3130Y	TRANSISTOR					
Q465, 466	2SC1685RST	TRANSISTOR		Z801	RCDHC-237	REMOTE SENSER	
Q501-503	2SA992EFPTA	TRANSISTOR				COIL(S)	
Q761	2SD2037DEFTA	TRANSISTOR		L1	SLQZ650MH49	COIL	Δ
Q762	2SC3311A-Q	TRANSISTOR		L251, 252	ELEXT1R0KA9	COIL	
Q763	UN4211	TRANSISTOR		L501-504	SLQY18G-10	COIL	
Q801-806	UN4211	TRANSISTOR		L551	ELEPK2R2MA	COIL	
Q807	UN4219TA	TRANSISTOR		L801	ELEXT101KA9	COIL	
Q808	UN4211	TRANSISTOR				TRANSFORMER(S)	
Q809-811	UN4111	TRANSISTOR					
		DIODE(S)		T1	RTP1N5B014-W	POWER TRANSFORMER	Δ
D401, 402	MA167	DIODE				OSCILLATOR(S)	
D403, 404	MA4036MTA	DIODE					
D405, 406	MA165	DIODE		X801	EFOGC4004TA	OSCILLATOR	
D451	MA29WA	DIODE				FUSE(S)	
D453-456	MA165	DIODE					
D461-464	MA4240H	DIODE		F1	XBA2C25TB0	FUSE	Δ
D465-468	MA167	DIODE				SWITCH(ES)	
D501, 502	MA165	DIODE					
D503, 504	MA4160M	DIODE					
D505	MA165	DIODE					
D602	LN014304P	DIODE (LED)					
D603	LN018304P	DIODE (LED)					
D701-704	P300DLF	DIODE	Δ				

CABINET PARTS LOCATION



Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS				PACKING MATERIAL	
1	RGW0127A-K	VOLUME KNOB		P1	RPG1342	PACKING CASE	
2	RGW0150-K	TOPE KNOB		P2	RPM0539	PAD	
3	RGW0151-K	SELECTOR KNOB		P3	XZB50X65A02Z	PROTECTION COVER	
4	RMND036A-K	CABINET	(EG)	P4	RPQ0164	ACCESSORY PAD	
4	RMND179-K	CABINET	(EB, EO)	P5	XZB24X34C04	PROTECTION COVER	
5	SNE2129-1	SCREW		P6	XZB22X20C03	PROTECTION COVER	
6	XTBS3+8JFZ1	SCREW				ACCESSORIES	
7	RGRO152A-A	REAR PANEL	(EG)				
7	RGRO152A-C	REAR PANEL	(EO)				
7	RGRO152A-B	REAR PANEL	(EB)	A1	RAK-SU301W	REMOTE CONTROL TRANSMITTER	
8	RGU0030	POWER BUTTON		A1-1	RKK0020-K	BATTERY COVER	for REMOTE CONT.
9	RHN90001	NUT		A2	RJAD019-1K	AC POWER SUPPLY CORD	(EG, EO) Δ
10	RFKJUVX620EG	BOTTOM BOARD ASS'Y		A2	SJA193	AC POWER SUPPLY CORD	(EB) Δ
10-1	RKAD053-A	FOOT		A3	RQT1624-E	INSTRUCTIONS MANUAL	(EO)
11	RMCO142	REC EARTH SPRING		A3	RFKSUVX620EG	INSTRUCTIONS MANUAL	(EG)
12	RMND189	P. C. B. ANGLE		A3	RQT1623-B	INSTRUCTIONS MANUAL	(EB)
13	RSQU022	REMOTE SWITCH CONTROLLER		AA4	RQADU13	WARRANTY CARD	
17	XTB3+8JFZ	SCREW		A5	RQCB0169	SERVICE CENTER LIST	
18	SHR415	LATCH					
19	RGND394-A	RING					
20	RGND412-K	SIDE ORNAMENT (L)					
21	RGND413-K	SIDE ORNAMENT (R)					
22	RGND480-K	VOLUME ORNAMENT					
23	RGLO164-C	ORNAMENT					
24	RGLO165-C	ORNAMENT					
25	RGU0609-K	MODE BUTTON					
26	RGU0611-K	DIRECT BUTTON					
27	RGU0764-K	REMOTE CONTROL BUTTON					
28	RMRO460-K	HOLDER					
29	RMRO461-K	HOLDER					
30	RMRO502	SPACER					
31	RSO0287	SHIELD PLATE					
32	XTBS26+8J	SCREW					
33	SHE187-2	P. C. B. SPACER					
34	SHR9814	CLIMPER					
35	SJS9231A	AC INLET COVER					
36	SNE2123	GND SCREW					
37	SUS890	SPRING					
38	XTBS3+8JFZ1	SCREW					
39	XTW3+15T	SCREW					
40	XTB3+2DJFZ	SCREW					
41	XTB3+8JFZ	SCREW					
42	XTWS3+8T	SCREW					
43	XTBS26+8J	SCREW					
44	RFKJUVX620EG	FRONT PANEL ASS'Y					
45	RGND415-K	UPPER PLATE	(EB, EO)				
50	RWJ3907130QQ	FLAT CABLE (7P) (#702)					
51	RWJ3903050KX	FLAT CABLE (3P) (#501)					

■ PACKAGING



P2: Pad (A) (B) (C) (D) ass'y

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