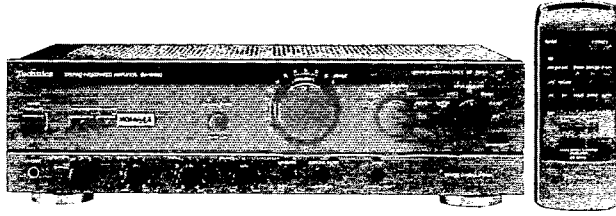


Service Manual

Amplifier

SU-VX620

Stereo Integrated Amplifier



Colour

(K) Black Type

Areas

Suffix for Model No.	Area	Colour
(EG)	Europe	(K)
(EB)	Great Britain	
(EO)	Switzer Land	

SPECIFICATIONS (DIN 45 500)

20 Hz~20 kHz continuous power output	
both channels driven	2 × 50 W (8 Ω)
1 kHz continuous power output	
both channels driven (THD: 1%)	2 × 65 W (8 Ω) 2 × 90 W (4 Ω)
63 Hz~12.5 kHz continuous power output	
both channels driven (THD: 0.7%)	2 × 60 W (8 Ω) 2 × 80 W (4 Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.007% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)	
rated power	0.007% (8 Ω)
Residual hum and noise	1 mV
Damping factor	60 (8 Ω), 30 (4 Ω)
Headphones output level/impedance	540 mV/330 Ω
Load impedance	
A or B, BI-WIRING	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/DAT	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 (78 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	91 dB (99 dB, IHF '66)
S/N at -26 dB power (4 Ω)	
PHONO MM	68 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	70 dB

S/N at 50 mW power (4 Ω)

PHONO MM 64 dB

TUNER, CD, AUX, TAPE 1, TAPE 2/DAT 64 dB

Frequency response

PHONO MM RIAA standard curve ±1 dB
(30 Hz~15 kHz)

TUNER, CD, AUX, TAPE 1, TAPE 2/DAT

3 Hz~80 kHz (+0, -3 dB)
+0 dB, -0.3 dB (20 Hz~20 kHz)

Tone controls

BASS 50 Hz, +10~-10 dB

TREBLE 20 kHz, +10~-10 dB

Subsonic filter

30 Hz, -6 dB/oct

Loudness control (volume at -30 dB)

50 Hz, +9 dB

Output voltage

TAPE 1, TAPE 2/DAT REC OUT 150 mV

Channel balance (AUX 250 Hz~6.3 kHz) ±1 dB

Channel separation (AUX 1 kHz) 50 dB

■ GENERAL

Power consumption 230 W

Power supply AC 50 Hz/60 Hz, 230 V/240 V

Dimensions (W × H × D) 430 × 125 × 316 mm

Weight 7.8 kg

Notes:

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

Technics

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BEFORE REPAIR AND ADJUSTMENT

- (1) Turn off the power supply. Using a 10Ω, 10 W resistor, shortcircuit both ends of power supply capacitors C701 and C702 in order to discharge the voltage.
- (2) Before turning on the power switch of the unit.
 - A. Connect the voltage controller to the primary side.
 - B. Connect the AC ampere meter to the primary side or connect the DC voltage meter to the “±B” circuit of the secondary side.
 - C. Turn the VR of ICQ (VR451 and VR452) to minimum (counterclockwise).
 - D. After setting the output to zero of the voltage controller, turn on the power switch of the unit.
And increase the output of voltage controller gradually.
Then, check carefully whether the current value of primary side become more than following value or whether the DC voltage of secondary side is increasing slowly.
 - E. If the value of current is increasing unusually or the DC voltage is not increasing, lower the output level of voltage controller immediately.
 - The current value of the primary side at no signal. (Confirm the power supply voltage of each area and provided voltage of the unit.)

Power supply voltage		AC 230 V	AC 240 V
Consumed current	50 Hz	110~310 mA	100~300 mA

PROTECTION CIRCUITRY

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

- No sound is heard when the power is turned on.
- Sound stops during a performance.

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

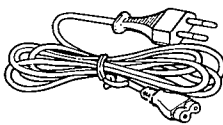
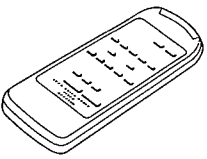

If this occurs, follow the procedure outlined below:

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

Note:

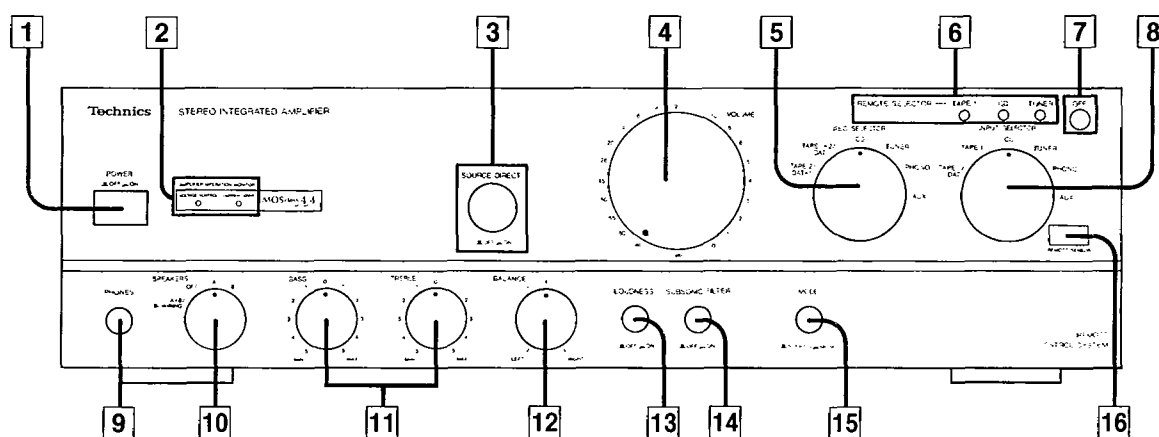
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

ACCESSORIES

<ul style="list-style-type: none"> •AC power supply cord 1 <RJA0019-1K>: (EG), (EO) <SJA193>: (EB) 	<ul style="list-style-type: none"> •Remote control transmitter (RAK-SU301W) 1
	
<ul style="list-style-type: none"> •Batteries 2 <R03> 	
	

The configuration of the AC power supply cord differs according to area.

■ FUNCTION OF CONTROLS

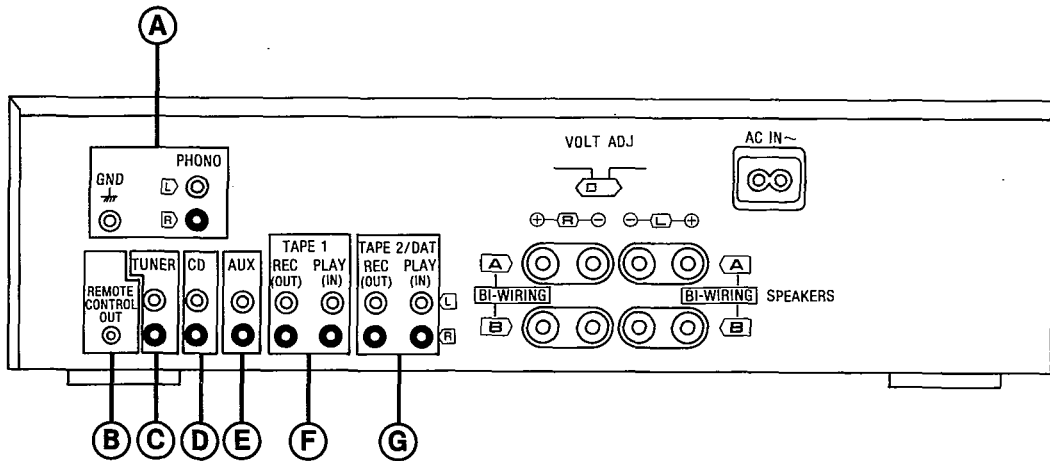
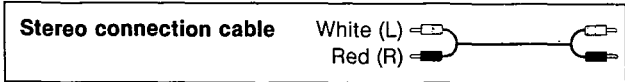


- 1 Power switch (POWER)**
- 2 Operation indicators (AMPLIFIER OPERATION MONITOR)**
These indicators illuminate to indicate the operating condition of this unit.
VOLTAGE CONTROL:
When the power is switched ON, this indicator illuminates when the unit is in the operating condition.
CURRENT DRIVE:
When the power is switched ON, this indicator illuminates after about 4 seconds when the unit is in the operating condition.
If an abnormal condition in the circuitry is detected, such as DC voltage appearing in the output, or a short-circuit of the positive (+) and negative (-) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.
- 3 Source direct switch (SOURCE DIRECT)**
This switch is used when enjoying high quality sound playback such as that from a CD.
- 4 Volume control (VOLUME)**
- 5 Recording selector (REC SELECTOR)**
This selector is used to select the sound source to be recorded by the connected first tape deck and/or second tape deck (or DAT).
- 6 Remote control input indicator (REMOTE SELECTOR)**
This indicator illuminates to indicate the input source selected (TAPE 1, CD or TUNER).
While this indicator is illuminated, the input will not change even if the input source is changed using the main unit input selector.
- 7 Remote control input erase button (OFF)**
This button is used to erase the input selected on the remote control transmitter in order to select the desired source using the input selector on the main unit.
- 8 Input selector (INPUT SELECTOR)**
This selector is used to select the sound source to be heard, such as a disc, radio broadcast, etc.
- 9 Headphones jack (PHONES)**
- 10 Speaker selector (SPEAKERS)**
This selector is used to select the speakers to be used.
- 11 Tone controls (BASS/TREBLE)**
The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.
- 12 Balance control (BALANCE)**
This control is used to adjust the left/right volume balance.
- 13 Loudness switch (LOUDNESS)**
This switch is used when listening to music at a low volume level. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is set to the "ON" position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.
- 14 Subsonic filter switch (SUBSONIC FILTER)**
This switch is used to eliminate ultra-low-frequency noise such as motor "rumble" and unusual vibration of the woofer cone caused by a warped disc, etc.
- 15 Mode selector (MODE)**
This selector is used to select stereo or monaural operation.
- 16 Remote control signal receptor (REMOTE SENSOR)**
Receives the signals from the remote control

■ CONNECTIONS

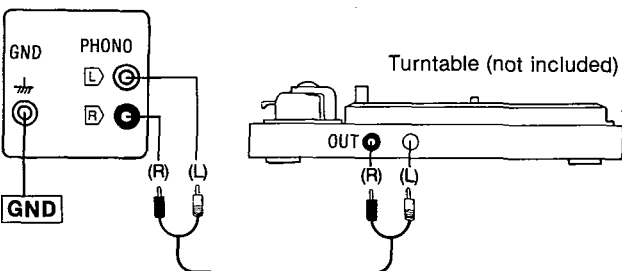
To connect to each terminals

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



A "PHONO" terminals

Connect to a turntable.



•Phono input capacitance is about 470 pF.

■ "GND" terminal

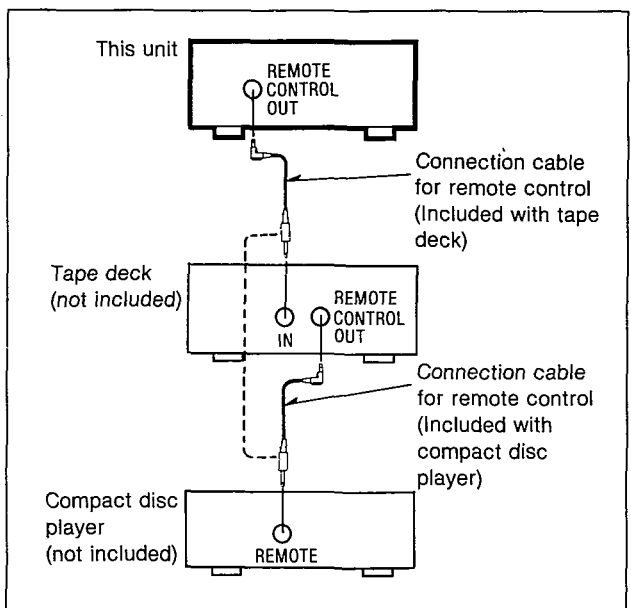
This terminal is for use with a turntable which has a ground wire.

B "REMOTE CONTROL OUT" terminals

This terminal can be used only with Technics tape deck and compact disc player which have the appropriate remote control terminal. (Consult your dealer for details.)
Proper connection with remote control connection cables will allow control of some functions from this unit's remote control transmitter.

Connect to a tape deck and/or compact disc player as shown below.

If a tape deck is not being used, the compact disc player can be connected directly (dotted line).

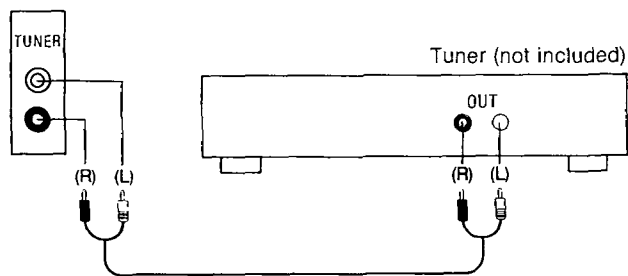


Note:

For a compact disc player with a remote control sensor the above connection is not necessary.

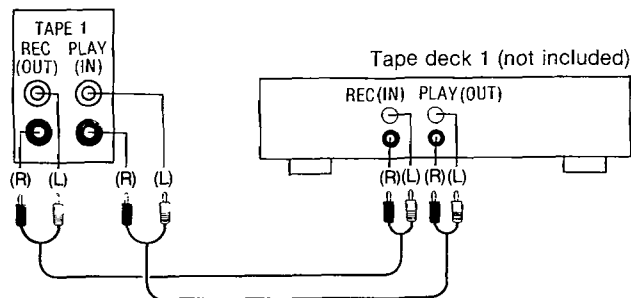
C "TUNER" terminals

Connect to a tuner.



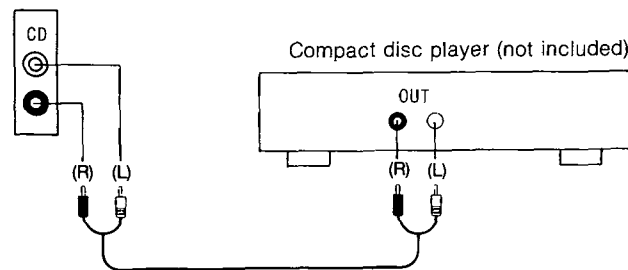
F "TAPE 1" terminals

Connect to a first tape deck.



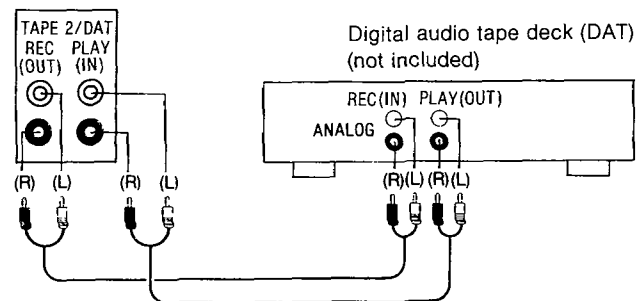
D "CD" terminals

Connect to a compact disc player.



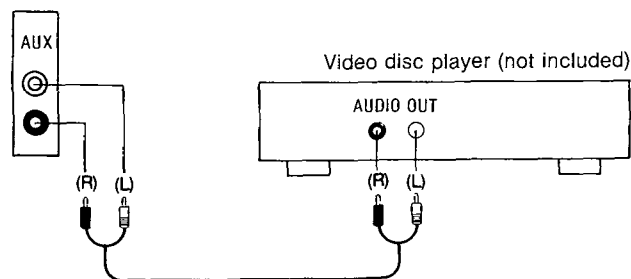
G "TAPE 2/DAT" terminals

Connect to a second tape deck or a digital audio tape deck (DAT).

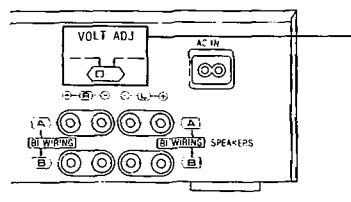


E "AUX" terminals

Connect to a component such as a video disc player (audio only connectable), etc.



To set the power voltage



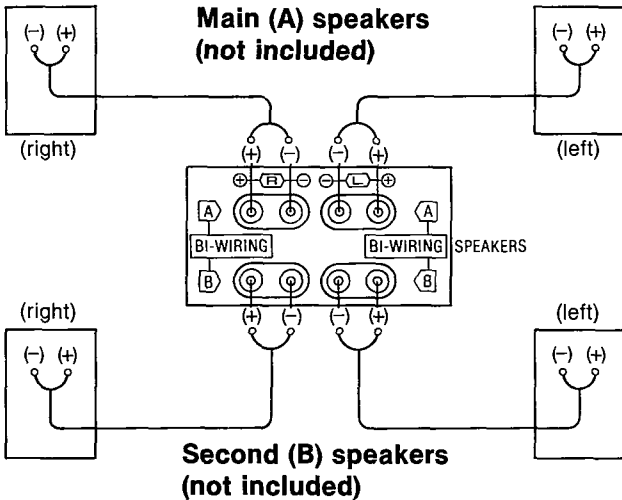
Set the voltage selector to the voltage setting for the area in which the unit will be used. [Use a minus (-) screwdriver]
Set the voltage setting to "230 V" or "240 V".

Note:
Note that this unit will be seriously damaged if this setting is not made correctly.

To connect to speakers

One pair of speakers can be connected to the "A" terminals of this unit and one pair to the "B" terminals, or only one pair of bi-wired speakers can be connected to all terminals.

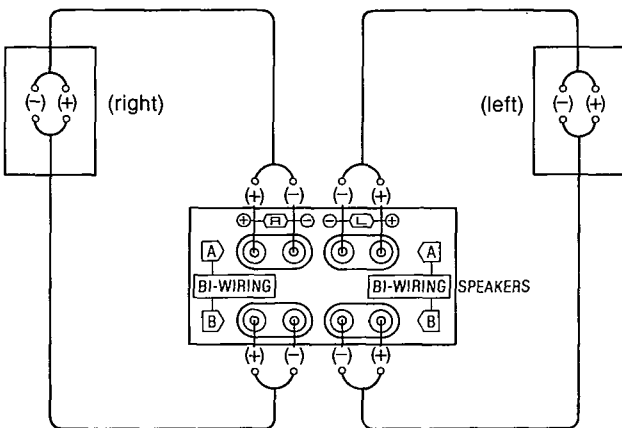
To connect main and/or second speakers



Load 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

To connect bi-wired speakers (not included)



Note: Connect only bi-wired speakers in this way.

Load impedance

When bi-wired speakers are used: 4–16 ohms

Bi-wiring

The treble range and the bass range of the speakers are connected to the speaker terminals of the amplifier by using two speaker connection cords separately for each.

As a result of making connections in this way, sound can be reproduced with much greater nuance and detail, with the feelings of air oscillation and deepness of sound provided by an input source that suppresses reciprocal band-range interference. (Refer to the operating instructions of the speakers.)

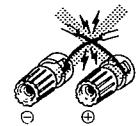
To connect cords to terminals

- ① Strip off the outer covering, and twist the center conductor. 10 mm Twist
- ② Turn completely to the left.
- ③ Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

Note: Be sure to only connect positive (+) cords to positive (+) terminals, and negative (-) cords to negative (-) terminals.

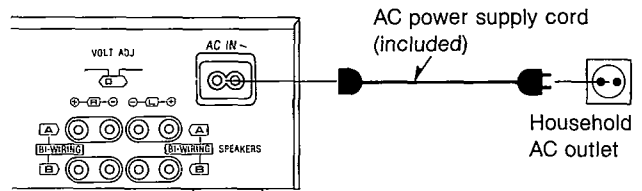
Note:

To prevent damage to circuitry, never short-circuit the plus (+) and minus (-) speaker wires.



To connect the AC power supply cord (included)

Connect the AC power supply cord (included) after all other cables and cords are connected.

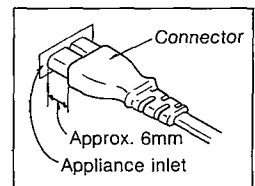


For Europe

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.

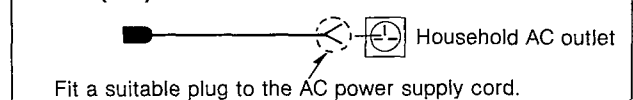
However there is no problem using the unit.



Note:

The configuration of the AC power supply cord differs according to area.

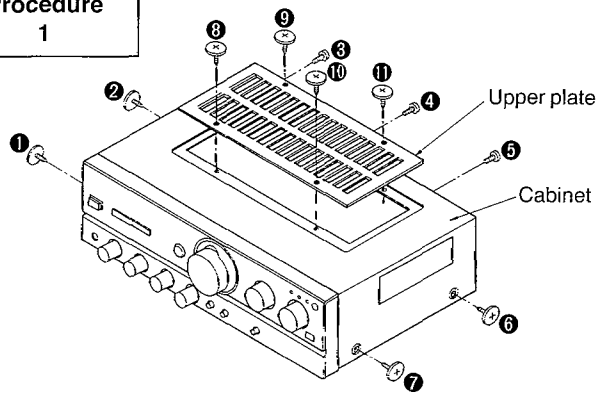
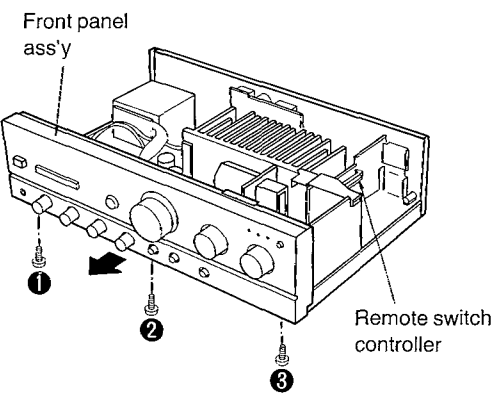
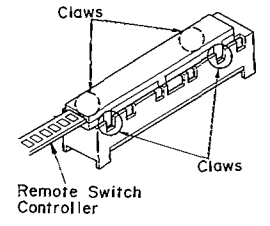
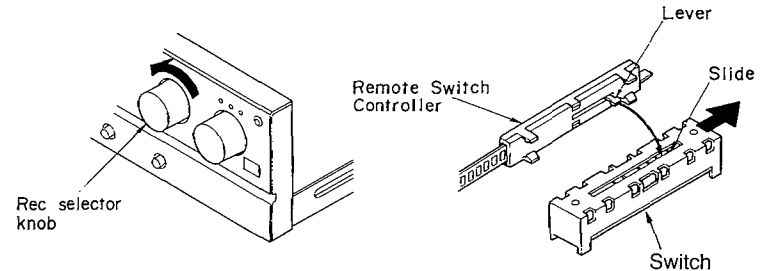
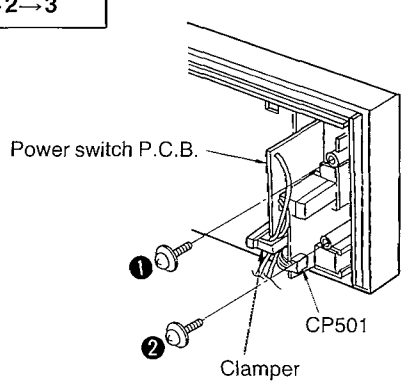
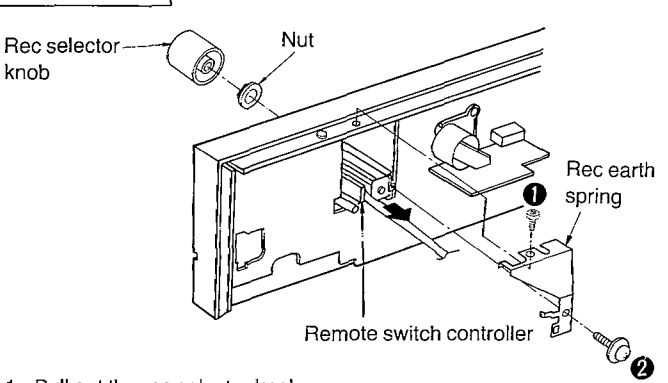
For (EB) area

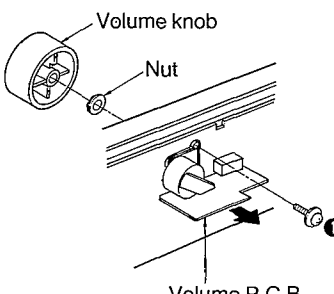
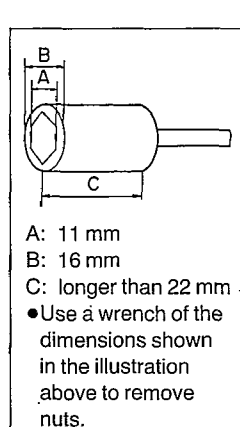
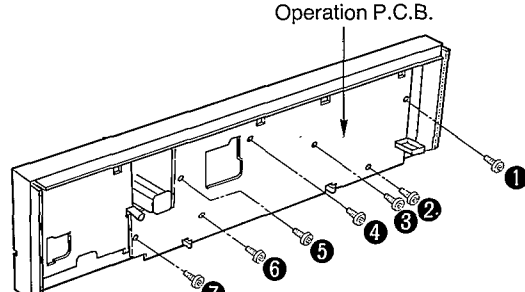
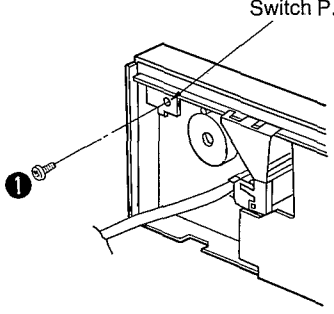
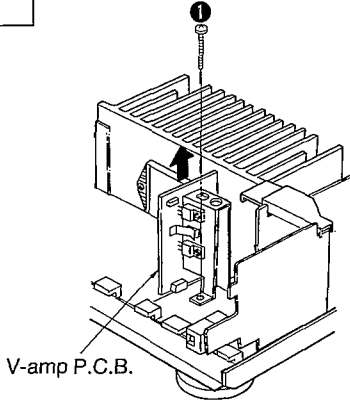


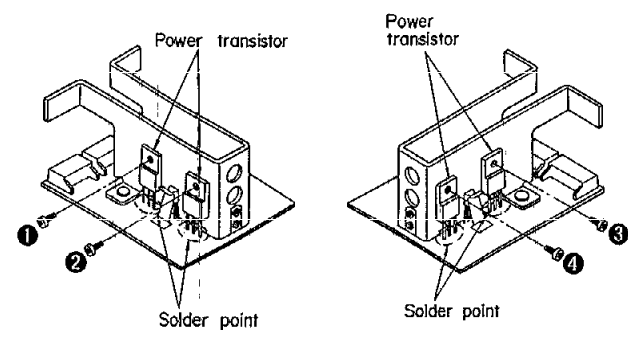
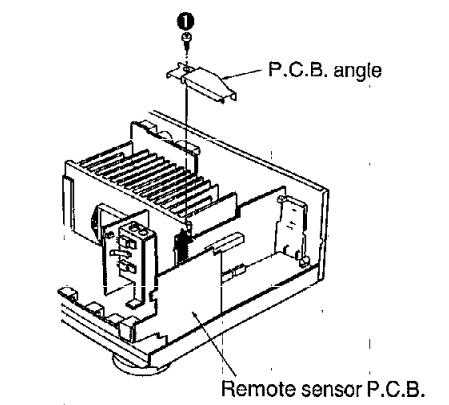
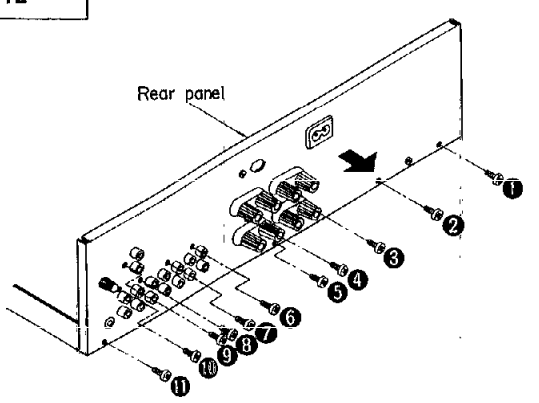
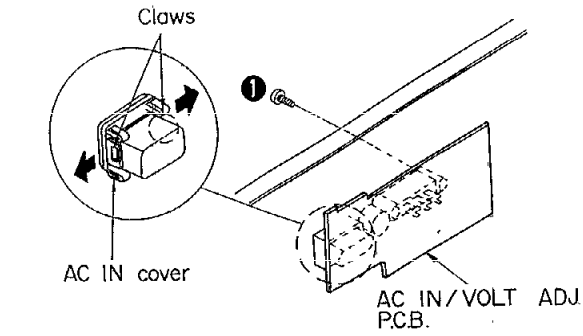
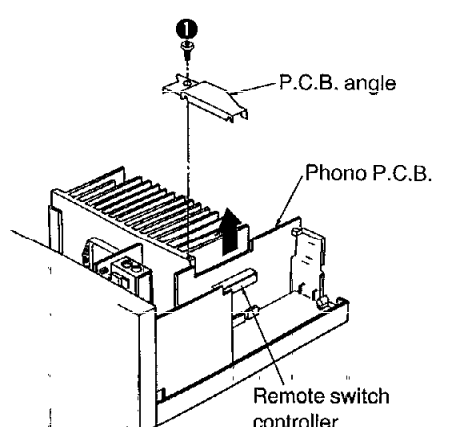
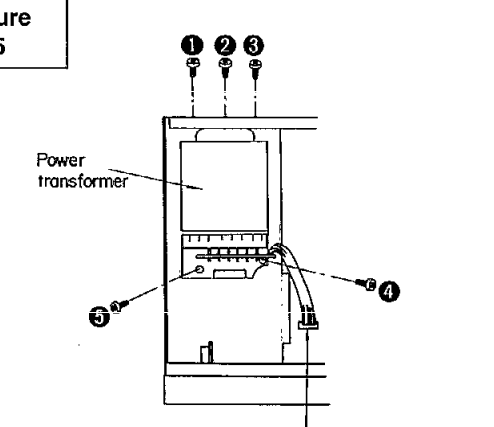
DISASSEMBLY INSTRUCTIONS

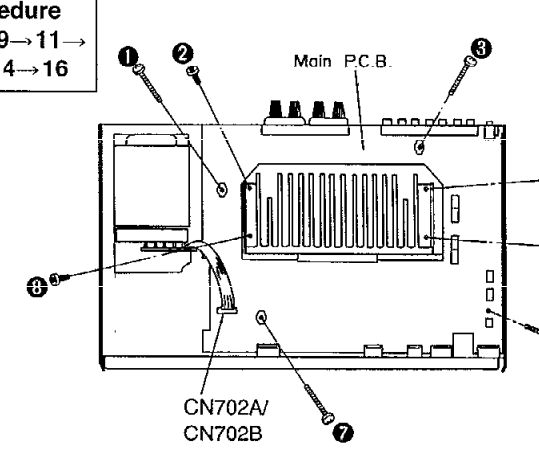
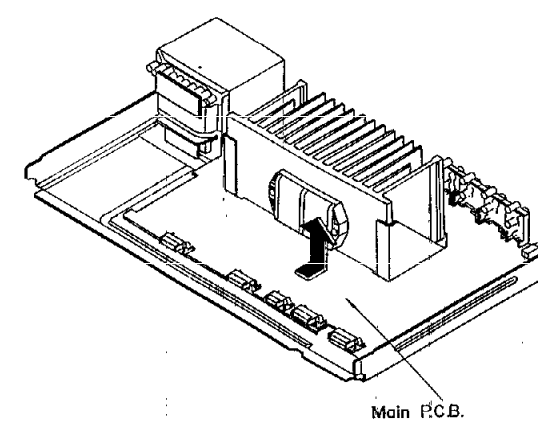
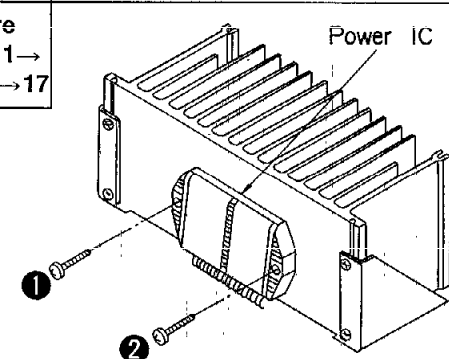
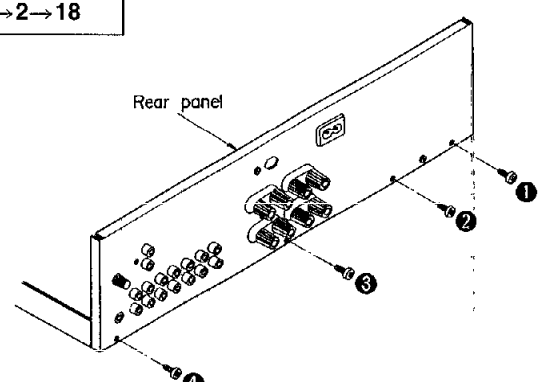
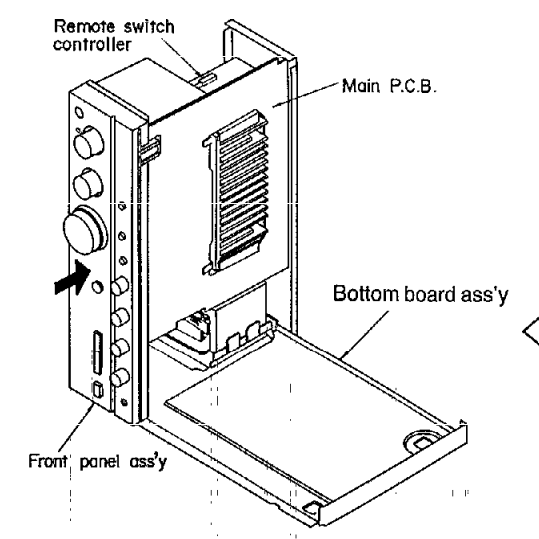
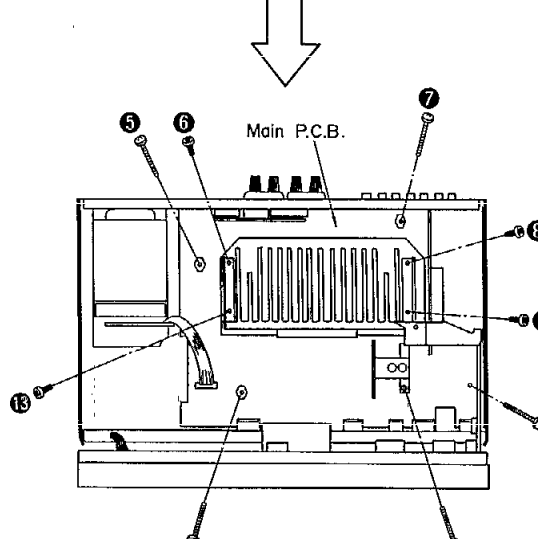
"ATTENTION SERVICER"

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

Ref. No. 1	Removal of the cabinet	Ref. No. 2	Removal of the front panel ass'y
Procedure 1	 <ol style="list-style-type: none"> 1. Remove the 7 screws (1~7). 2. Remove the 4 screws (8~11). (For EB, EO areas) 3. Remove the upper plate. (For EB, EO areas) 	Procedure 1→2	 <ol style="list-style-type: none"> 1. Remove the remote switch controller. 2. Remove the 3 screws (1~3). 3. Remove the front panel ass'y in the direction of arrow.
<p>■ Removal of the remote switch controller</p> <p>• Remove the 4 claws.</p> <p>S102 (REC SELECTOR)</p> 		<p>■ Replacing of the remote switch controller</p> <ol style="list-style-type: none"> 1. Turn the selector knobs to the arrows. 2. Put the switch slider of switch to end and put in the remote switch controller. 	
Ref. No. 3	Removal of the power switch P.C.B.	Ref. No. 4	Removal of the remote switch controller
Procedure 1→2→3	 <ol style="list-style-type: none"> 1. Remove the 1 connector (CP501). 2. Release the cables from code clamper. 3. Remove the 2 screws (1, 2). 	Procedure 1→2→4	 <ol style="list-style-type: none"> 1. Pull out the rec selector knob. 2. Remove the nut. 3. Remove the 2 screws (1, 2). 4. Remove the rec earth spring. 5. Remove the remote switch controller in the direction of arrow.

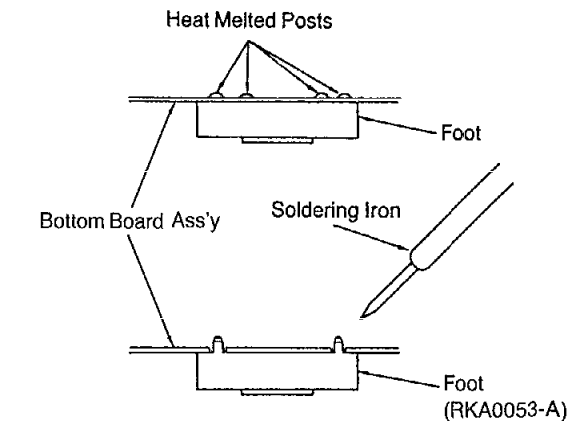
<p>Ref. No. 5</p>	<p>Removal of the volume P.C.B.</p>	<p>Ref. No. 6</p>	<p>Removal of the input selector P.C.B.</p>
<p>Procedure 1→2→5</p>	 <ol style="list-style-type: none"> 1. Pull out the volume knob. 2. Remove the nut. 3. Remove the 1 screw (1). 4. Remove the volume P.C.B. in the direction of arrow. 		<p>Procedure 1→2→6</p>
<p>Ref. No. 7</p>		<p>Removal of the input selector P.C.B.</p>	
<p>Procedure 1→2→3→5→7</p>	 <ol style="list-style-type: none"> 1. Pull out the 4 knobs. 2. Remove the 4 nuts. 		 <ol style="list-style-type: none"> 3. Remove the 7 screws (1~7).
<p>Ref. No. 8</p>	<p>Removal of the Switch P.C.B.</p>	<p>Ref. No. 9</p>	<p>Removal of the V-amp P.C.B.</p>
<p>Procedure 1→2→6→8</p>	 <ol style="list-style-type: none"> 1. Remove the 1 screw (1). 		<p>Procedure 1→9</p>  <ol style="list-style-type: none"> 1. Remove the 1 screw (1). 2. Remove the V-amp P.C.B. in the direction of arrow.

Ref. No. 10	Removal of the power transistor	 <p>Procedure 1→9→10</p> <ol style="list-style-type: none"> 1. Unsolder the power transistor. 2. Remove the 4 screws (1~4). <p>•when mounting power transistor, apply silicon thermal compound (RFKX0002) to the rear of the power transistor.</p>	 <p>Ref. No. 11</p> <p>Procedure 1→2→11</p> <ol style="list-style-type: none"> 1. Remove the 1 screw (1). 2. Remove the P.C.B. angle. 3. Remove the remote sensor P.C.B. in the direction of arrow.
Ref. No. 12	Removal of the rear panel	 <p>Procedure 1→12</p> <ol style="list-style-type: none"> 1. Remove the 11 screws (1~11). 2. Remove the rear panel in the direction of arrow. 	 <p>Ref. No. 13</p> <p>Procedure 1→12→13</p> <ol style="list-style-type: none"> 1. Remove the 1 screw (1). 2. Release the 2 claws of AC inlet cover.
Ref. No. 14	Removal of the phono P.C.B.	 <p>Procedure 1→12→14</p> <ol style="list-style-type: none"> 1. Remove the 1 screw (1). 2. Remove the P.C.B. angle. 3. Remove the remote switch controller. 4. Remove the phono P.C.B. in the direction of arrow. 	 <p>Ref. No. 15</p> <p>Procedure 1→15</p> <ol style="list-style-type: none"> 1. Remove the 1 flat cable (CN702A/CN702B). 2. Remove the 5 screws (1~5).

Ref. No. 16	Removal of the main P.C.B.	 <p>Procedure 1→2→9→11→ 12→14→16</p> <ol style="list-style-type: none"> 1. Remove the 1 flat cable (CN702A/CN702B). 2. Remove the 8 screws (1~8). 	 <p>3. Remove the main P.C.B. in the direction of arrow.</p>
Ref. No. 17	Removal of the power IC	 <p>Procedure 1→2→9→11→ 12→14→16→17</p> <ol style="list-style-type: none"> 1. Unsolder the power IC. 2. Remove the 2 screws (1, 2). <p>•When mounting the power IC and heat sink, apply silicon thermal compound (RFKX0002 or equivalent) to rear of the power IC.</p>	 <p>Ref. No. 18</p> <p>Procedure 1→2→18</p> <ol style="list-style-type: none"> 1. Remove the 4 screws (1~4).
 <p>3. Remove the bottom board ass'y.</p>	 <p>4. Reinstall the front panel ass'y to the main P.C.B. and place the unit as shown right.</p> <p>5. Reinstall the remote switch controller to the switch.</p>		

•REPLACEMENT OF THE FOOT

1. Remove the 4 heat melted posts on the bottom board ass'y with a pair of nippers or similar tool.
2. To replace the foot (RKA0053-A) on the bottom board ass'y, melt the 4 posts with a soldering iron.



■ MEASUREMENTS AND ADJUSTMENTS

•ADJUSTMENT

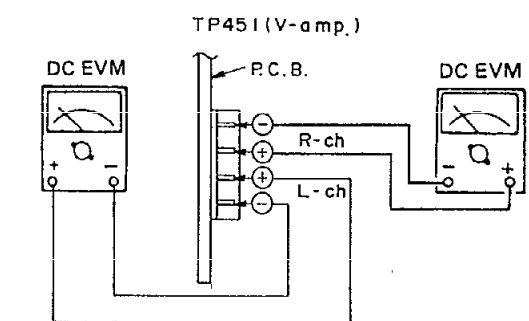
Control positions and equipment used.

- Volume knob ∞ (Minimum)
- Speaker selector OFF

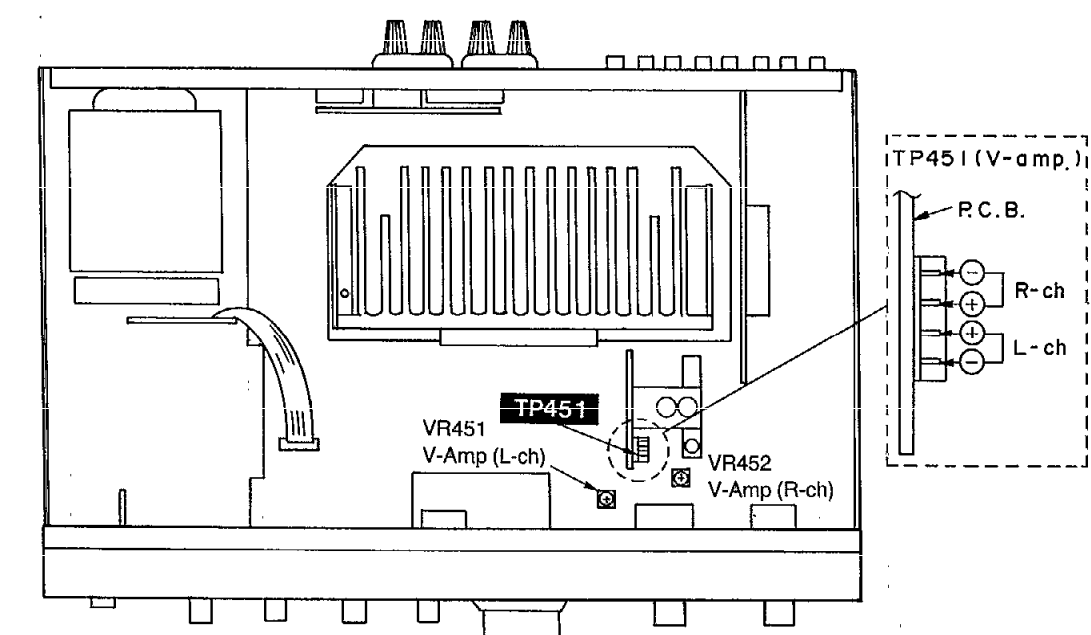
•DC electronic voltmeter (EVM)

•VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT

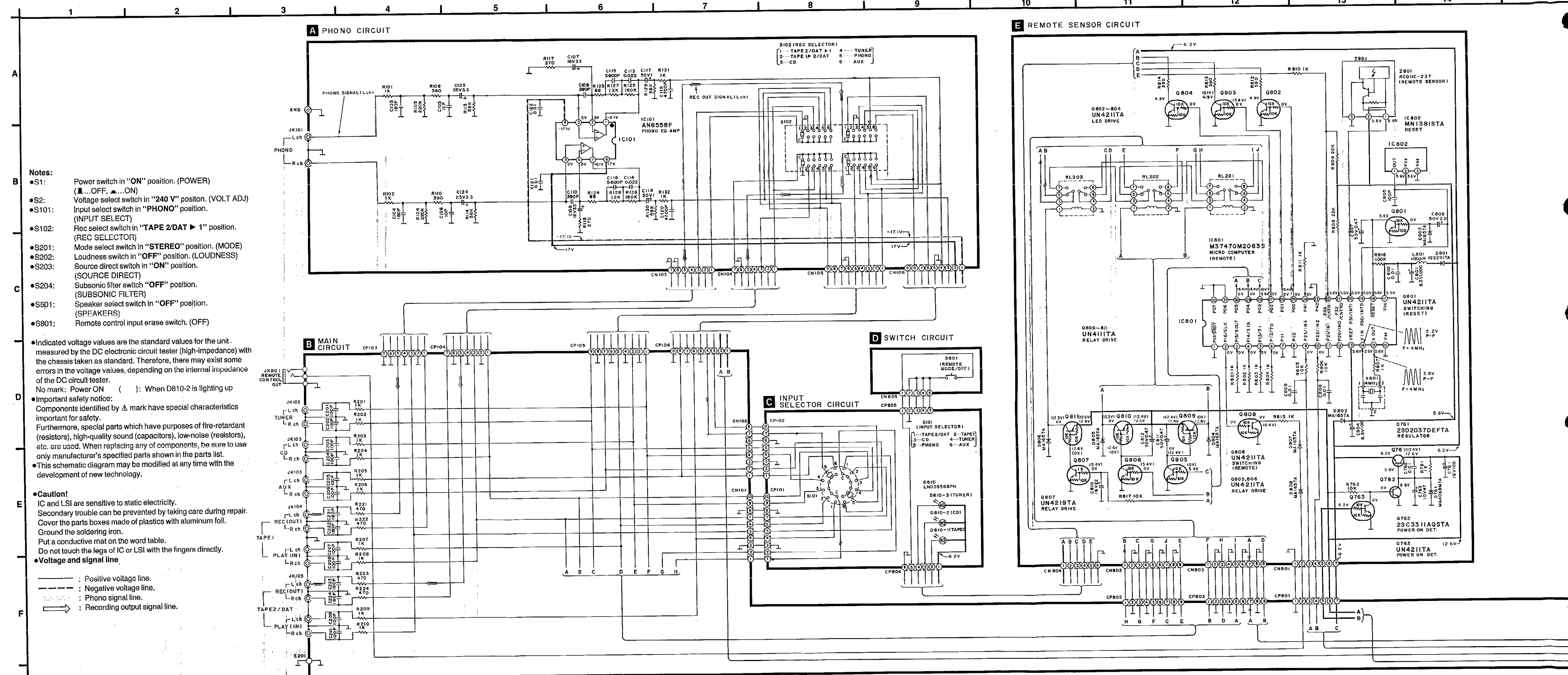
1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (V) amp. adjusting volumes (VR451, VR452) counter-clockwise.
3. Turn on the set when it is cold, and about 8 sec. later, adjust VR451 and VR452 so that the voltage is 100 ± 10 mV.



•ADJUSTMENT POINTS



SCHEMATIC DIAGRAM (Parts list on pages 26-29.)



- Notes:**
- S1: Power switch in "ON" position. (POWER)
 - S2: Voltage select switch in "240 V" positon. (VOLT ADJ)
 - S101: Input select switch in "PHONO" position. (INPUT SELECT)
 - S102: Rec select switch in "TAPE 2/DAT ▶ 1" position. (REC SELECTOR)
 - S201: Mode select switch in "STEREO" position. (MODE)
 - S202: Loudness switch in "OFF" position. (LOUDNESS)
 - S203: Source direct switch in "ON" position. (SOURCE DIRECT)
 - S204: Subsonic filter switch "OFF" position. (SUBSONIC FILTER)
 - S501: Speaker select switch in "OFF" position. (SPEAKERS)
 - S801: Remote control input erase switch. (OFF)

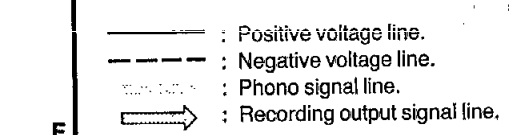
•Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark: Power ON (): When D810-2 is lighting up

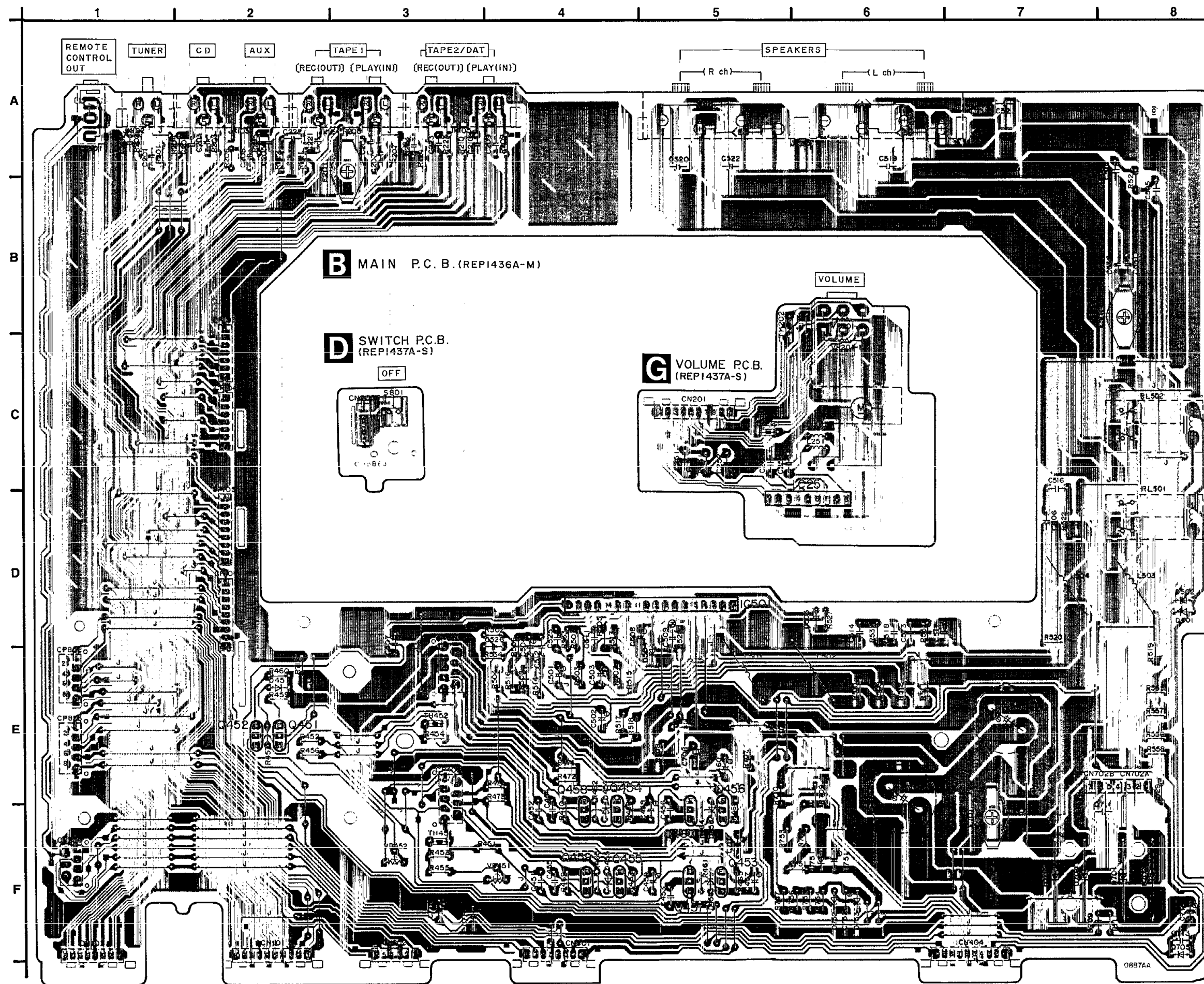
•Important safety notice:
Components identified by Δ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

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

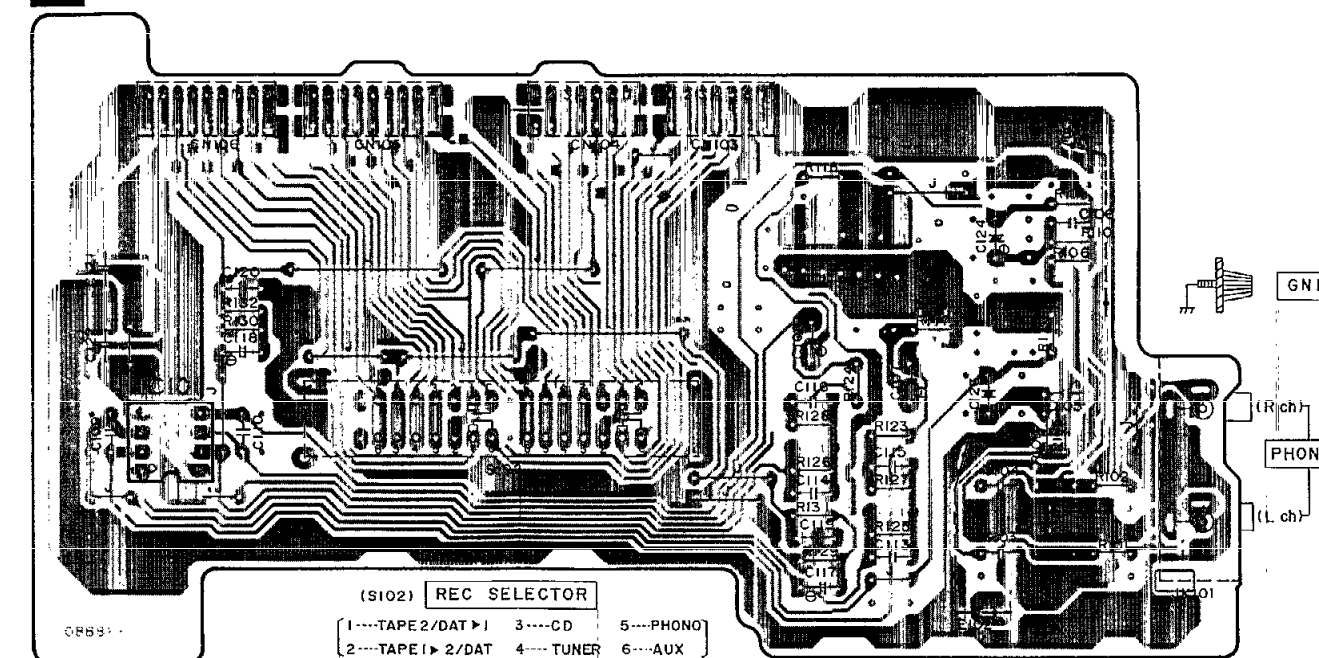
•Caution!
IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair. Cover the parts boxes made of plastics with aluminum foil. Ground the soldering iron.
Put a conductive mat on the word table. Do not touch the legs of IC or LSI with the fingers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



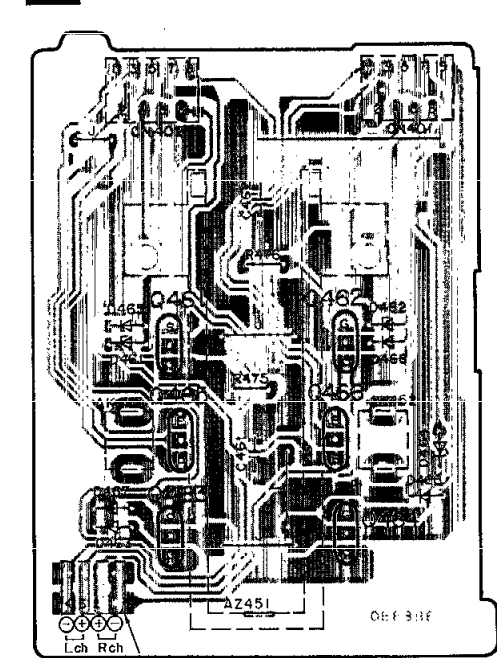
■ PRINTED CIRCUIT BOARD DIAGRAM (Parts list on pages 26-29.)



A PHONO P.C.B. (REP1437A-S)

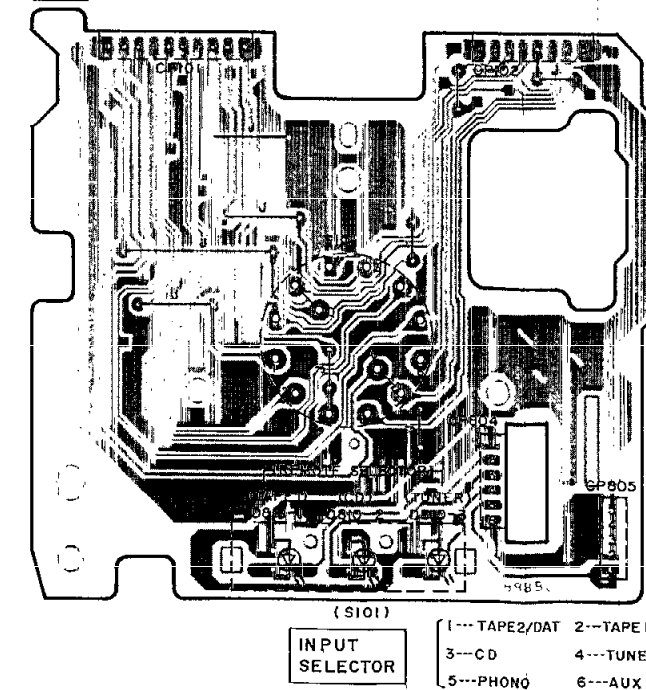


F V-AMP P.C.B. (REP1437A-S)

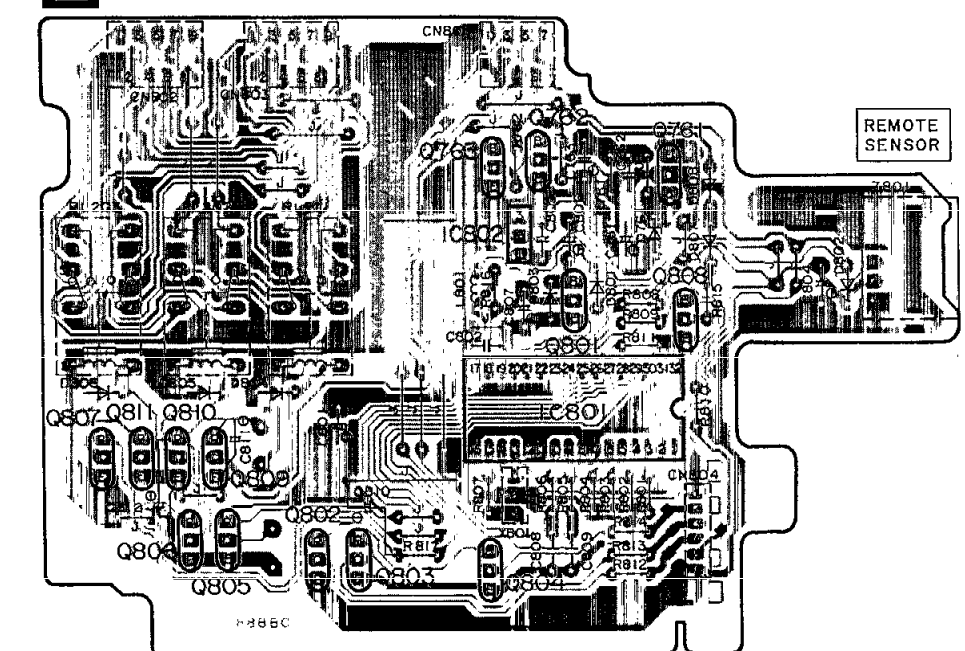


VOLTAGE CONTROL (V) AMP.
IDLING (ICQ) ADJ.

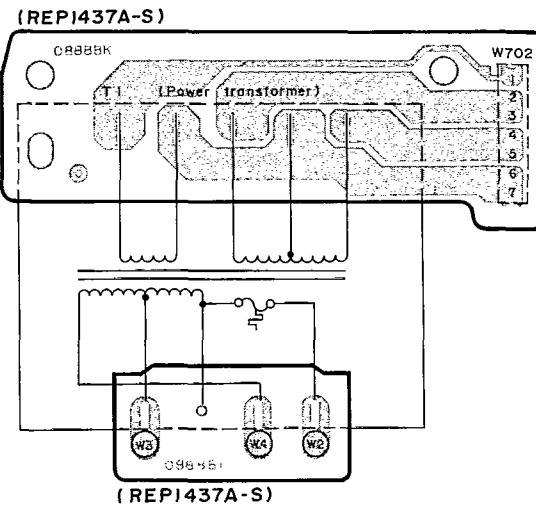
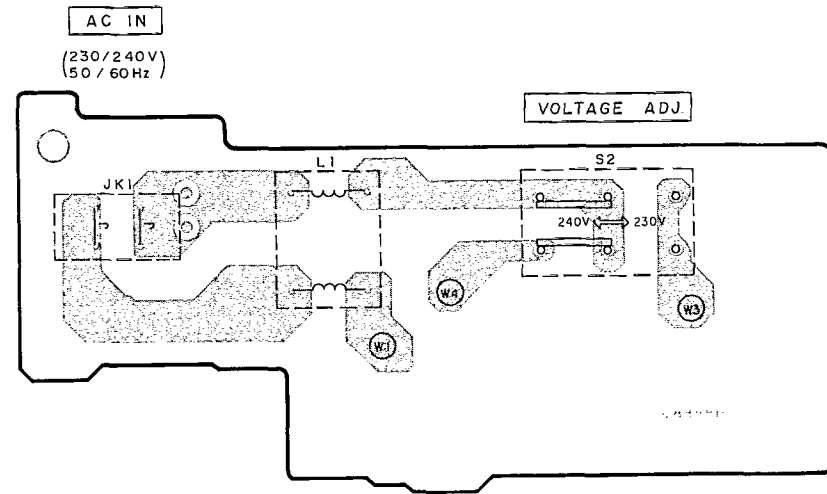
C INPUT SELECTOR P.C.B. (REP1437A-S)



E REMOTE SENSOR P.C.B. (REP1437A-S)



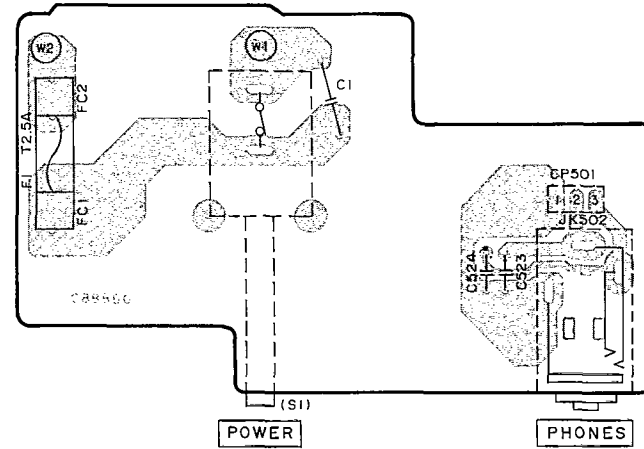
J AC IN / VOLT ADJ. P.C.B. (REP1437A-S)



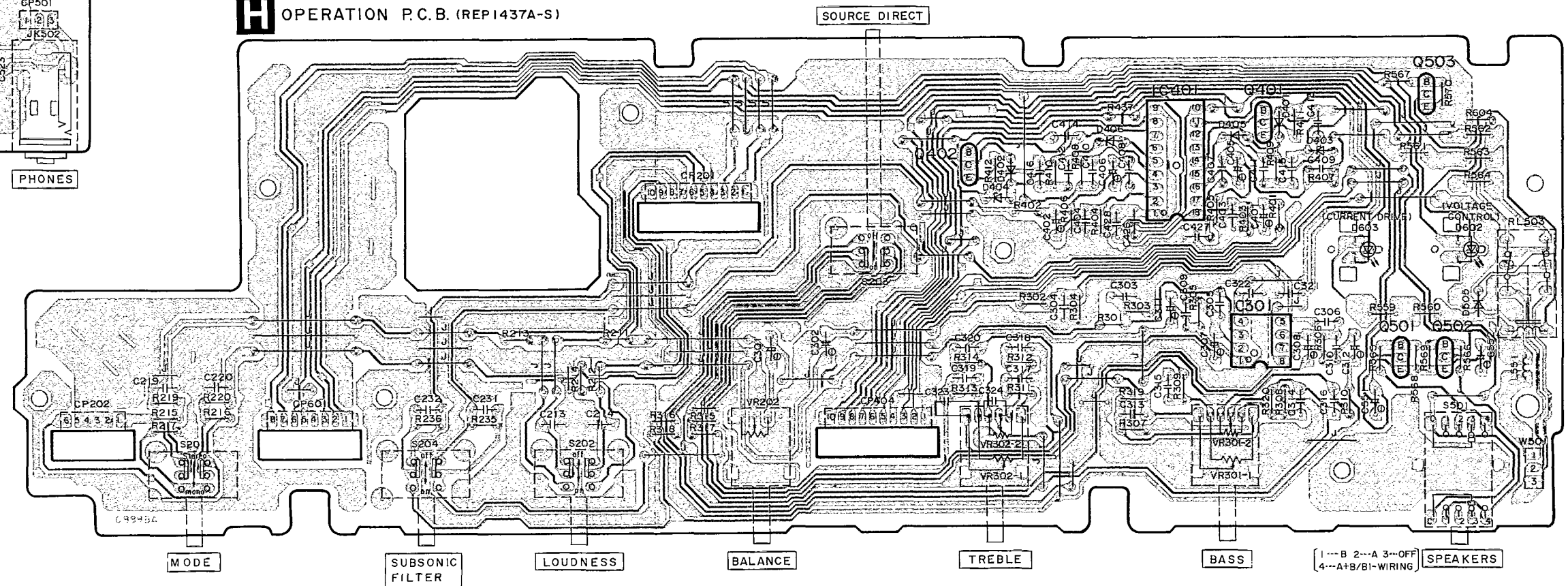
• Terminal guide of IC's, transistors and diodes.

 No. 1	AN6558F 8 Pin	 17 16	M37470M2063S	 18	SVI3205B	 9	BA6218	 1 2 3	MN1381STA			
	UPC4570C 8 Pin											
	AN7062N 18 Pin											
 E C B	2SA992EFPTA 2SA1123RSTTA 2SC1685RST 2SC2631RSTTA	 E C B	 E C B	 E C B	2SA1309AQSTA 2SC3311AQSTA UN4111TA UN4211TA UN4219TA	 B C E	2SD2037DEFTA	 G D S	2SK20130Y 2SJ3130Y			
 Ca Anode Cathode	1SR35200TB MA165TA MA167ATA MA29WATA	 Ca Anode Cathode	MA4036MTA MA4068MTA MA4082MTA	 Ca Anode Cathode	MA4160MTA MA4240MTA	 Ca Anode Cathode	1SS291TA	 Ca Anode Cathode	P300DLF			
 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	LN014304P LN018304P			
 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	 Anode Cathode	LN038568PH			

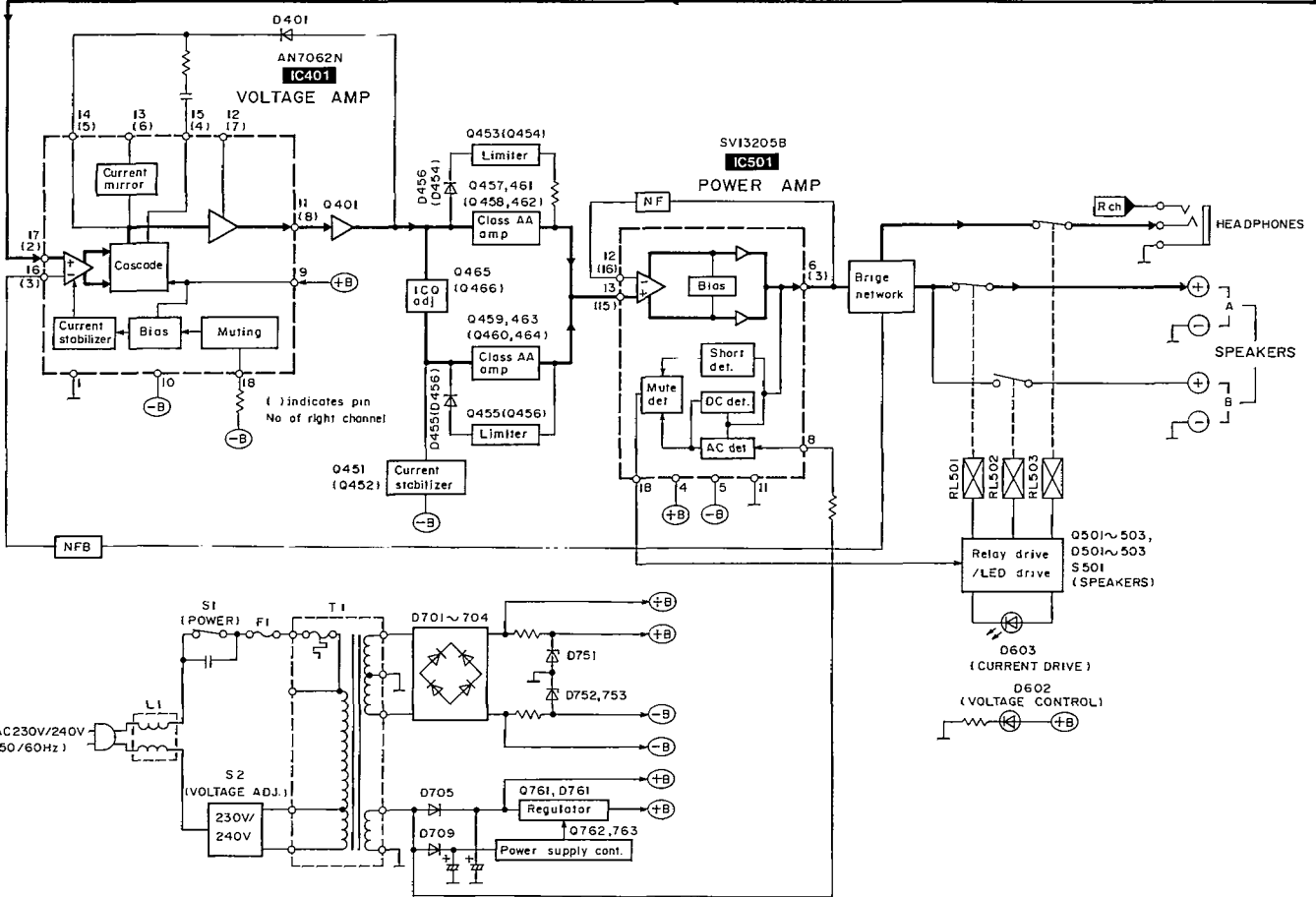
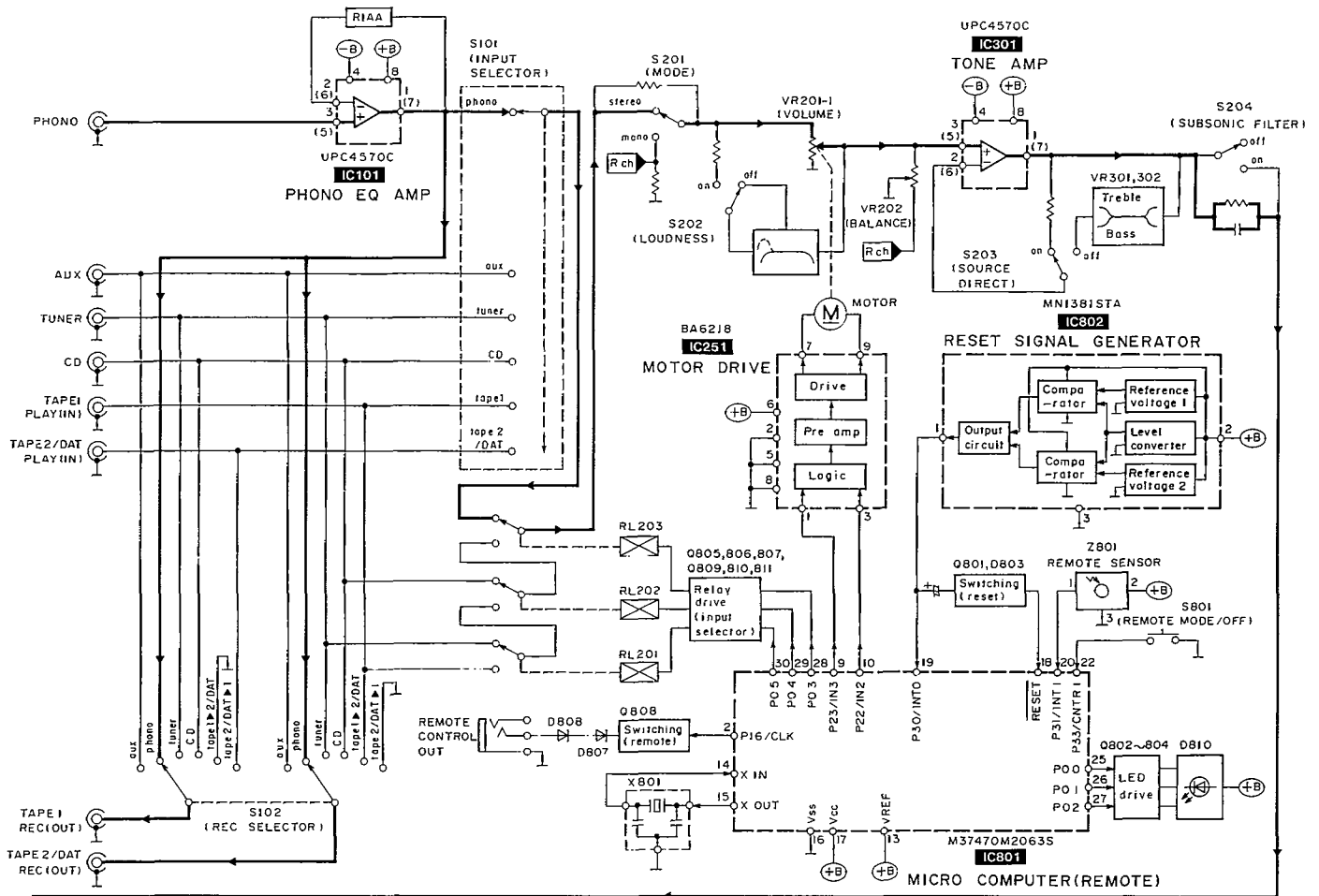
I POWER SWITCH P.C.B. (REP1437A-S)



H OPERATION P.C.B. (REP1437A-S)



■ BLOCK DIAGRAM



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.)

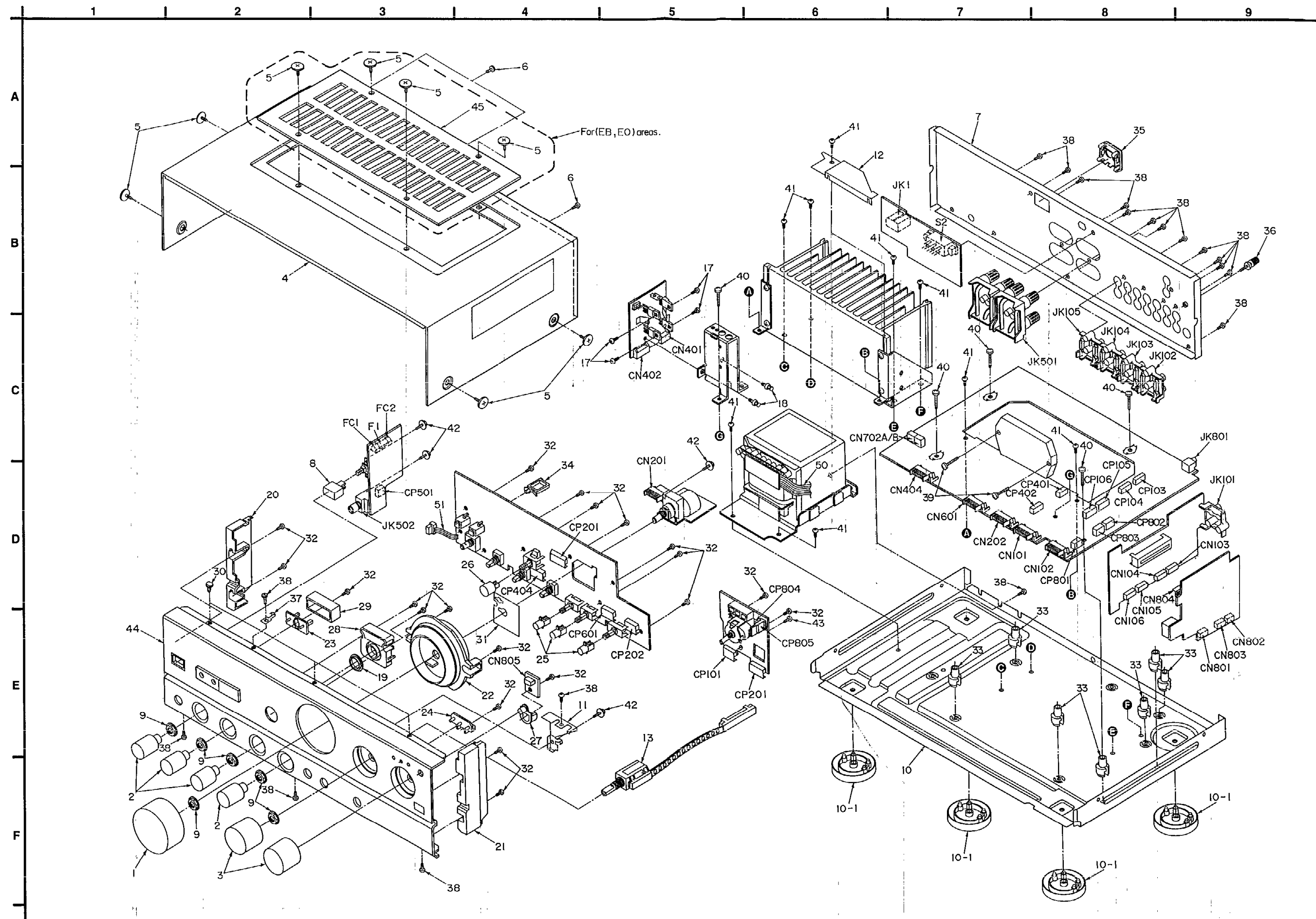
Parts without these indications can be used for all areas.

*Remote Control Ass'y:

Supply period for three years from termination of production.

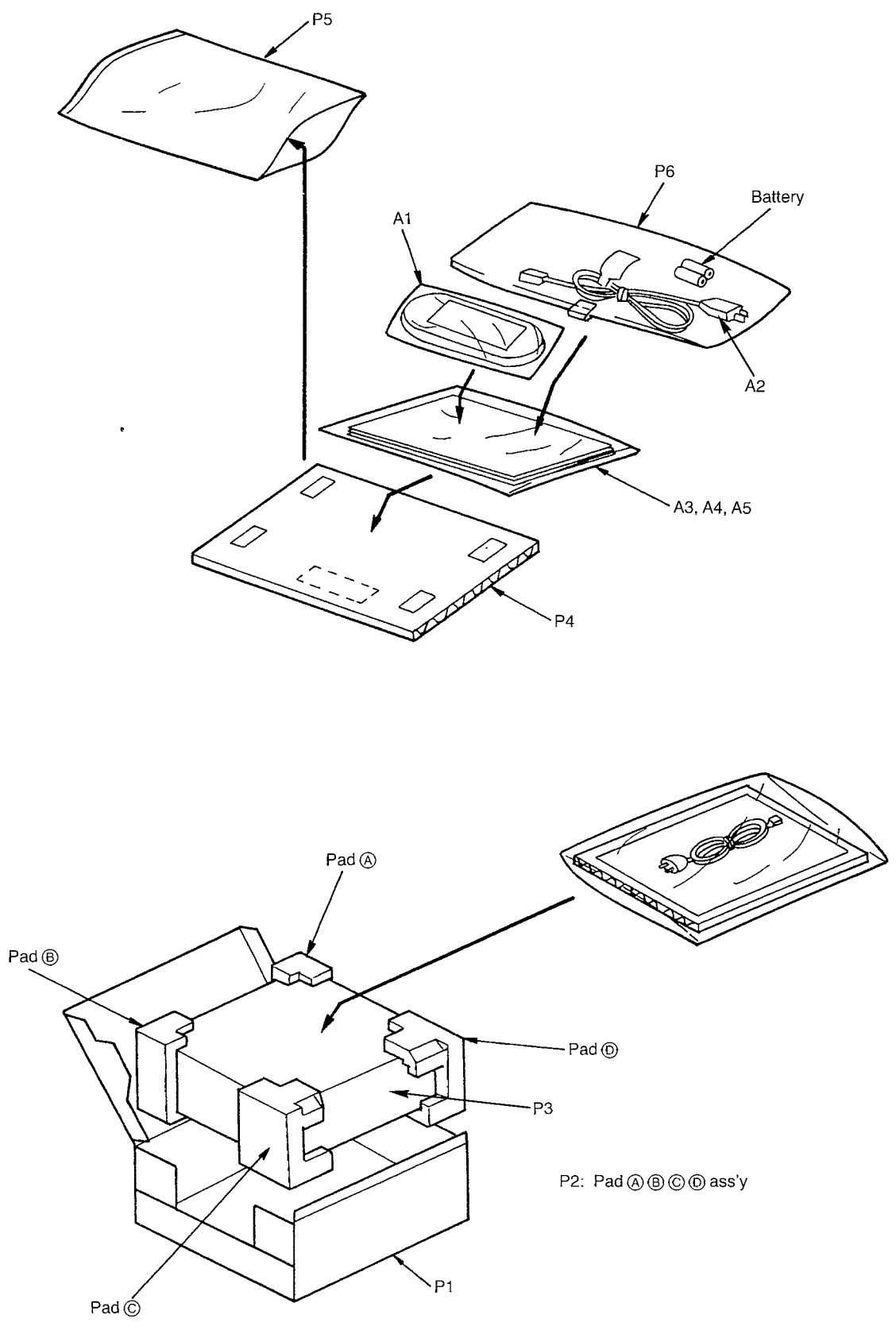
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		D705	1SR35200TB	DIODE	Δ
				D709	MA165	DIODE	Δ
				D751	MA4160M	DIODE	
IC101	AN6558F	I. C. PHONO EQ AMP.		D752, 753	MA4082MTA	DIODE	
IC251	BA6218	I. C. MOTOR DRIVE		D761	MA4068M	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	tone 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	RGND152A-A	REAR PANEL	(EG)				
7	RGND152A-C	REAR PANEL	(EO)				
7	RGND152A-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	RRAD053-A	FOOT		A3	RQT1624-E	INSTRUCTIONS MANUAL	(EO)
11	RMND142	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	RMND460-K	HOLDER					
29	RMND461-K	HOLDER					
30	RMND502	SPACER					
31	RSQ0287	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



1510