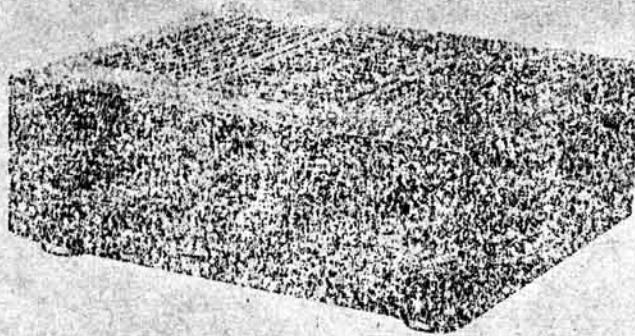


Service Manual

Stereo Integrated Amplifier

Amplifier



SU-VX700

Color

(V) Black Type

Areas

Country Code	Area	Color
(E)	Continental Europe	
(GB)	Great Britain	(K)
(EG)	F.R. Germany & Italy	

SPECIFICATIONS (DIN 45 500)

MAIN AMP. SECTION (POWER AMP. DIRECT Input)

20 Hz ~ 20 kHz continuous power output

both channels driven 2 x 90 W (8 Ω)

1 kHz continuous power output

both channels driven (THD 1%) 2 x 105 W (8 Ω)

63 Hz ~ 12.5 kHz continuous power output

both channels driven (THD 0.5%) 2 x 90 W (8 Ω)

2 x 125 W (4 Ω)

Total harmonic distortion

rated power at 20 Hz ~ 20 kHz 0.007% (8 Ω)

half power at 20 Hz ~ 20 kHz 0.005% (8 Ω)

half power at 1 kHz 0.0009% (8 Ω)

0.002% (4 Ω)

Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)

rated power 0.007% (8 Ω)

Residual hum and noise

0.2 mV

Damping factor

80 (8 Ω), 40 (4 Ω)

Headphones output level/impedance

625 mV/330 Ω

Load impedance

A or B, BI-WIRING 4 ~ 16 Ω

A and B 8 ~ 16 Ω

PRE AMP. SECTION

Input sensitivity/impedance

PHONO MM 2.5 mV/47 kΩ

MC 250 μV/220 Ω

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

150 mV/22 kΩ

POWER AMP. DIRECT 1 V/15 kΩ

Phono maximum input voltage (1 kHz, RMS)

MM 170 mV

MC 15 mV

S/N (Rated power 4 Ω)

PHONO MM 79 dB (26 dB, IHF '66)

MC 68 dB (53 dB, IHF '66)

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

97 dB (100 dB, IHF '66)

POWER AMP. DIRECT 106 dB (115 dB, IHF '66)

S/N at -26 dB power (4 Ω)

PHONO MM 77 dB

MC 67 dB

TUNER, CD, AUX, TAPE 1, TAPE 2/DAT 81 dB

S/N at 50 mW power (4 Ω)

PHONO MM 75 dB

MC 67 dB

TUNER, CD, AUX, TAPE 1, TAPE 2/DAT 78 dB

Frequency response

PHONO MM RIA standard curve ±0.8 dB

(30 Hz ~ 15 kHz)

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

3 Hz ~ 150 kHz (+0, -3 dB)

+0 dB, -0.2 dB (30 Hz ~ 20 kHz)

POWER AMP. DIRECT 31 Hz ~ 120 kHz (+0, -3 dB)

+0 dB, -0.2 dB (20 Hz ~ 20 kHz)

Tone controls

BASS 50 Hz, +10 ~ -10 dB

TREBLE 20 kHz, +10 ~ -10 dB

Muting

-20 dB

Subsonic filter

20 Hz, -12 dB/oct

Loudness control (volume at -30 dB)

50 Hz, +9 dB

Output voltage/impedance

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

590 W

Power supply

AC 50 Hz/60 Hz, 240 V

For Great Britain:

AC 50 Hz/50 Hz, 230 V

Dimensions (W × H × D)

420 × 150 × 429 mm

(16 15/16" × 5 7/32" × 16 29/32")

Weight

14.0 kg (30.3 lb.)

Notes:

1. Specifications are subject to change without notice.

Weight and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

■ CONTENTS

	Page
BEFORE REPAIR AND ADJUSTMENT	2
PROTECTION CIRCUITRY	2
ACCESSORY	2
LOCATION OF CONTROLS	3, 4
CONNECTIONS	4~6
DISASSEMBLY INSTRUCTIONS	7~10
SCHEMATIC DIAGRAM	11~14
PRINTED CIRCUIT BOARDS	15~18
WIRING CONNECTION DIAGRAM	19
BLOCK DIAGRAM	20
MEASUREMENTS AND ADJUSTMENTS	21
REPLACEMENT PARTS LIST	22, 25~27
CABINET PARTS LOCATION	23, 24
PACKING	25

■ BEFORE REPAIR AND ADJUSTMENT

(1) Turn off the power supply. Using a 10Ω, 10 W resistor, shortcircuit both ends of power supply capacitors (C601, C602) 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, VR452, VR501 and VR502) 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	110~210 mA	100~200 mA
	60 Hz	—	—

■ 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.

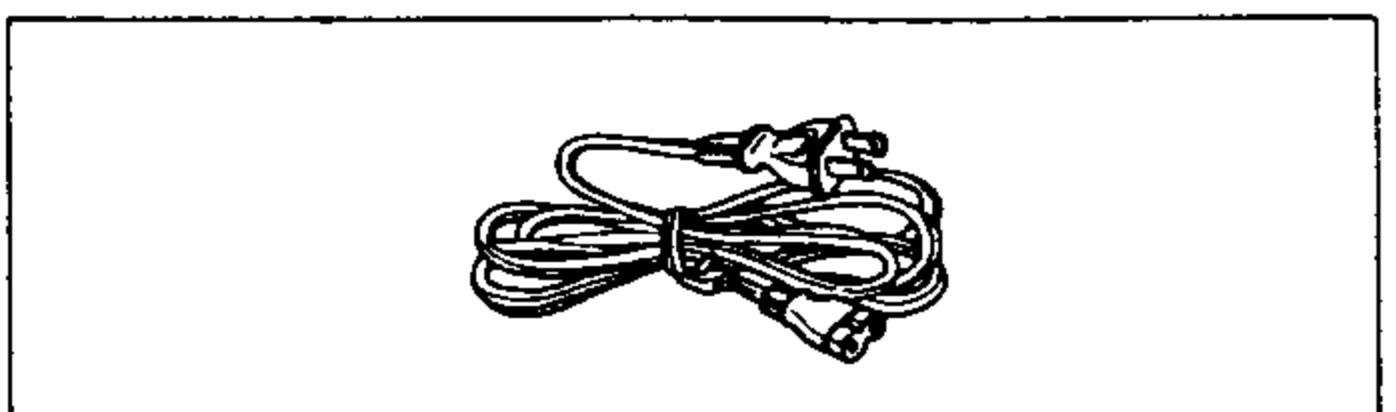
If this occurs, follow the procedure outlined below:

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

Note:

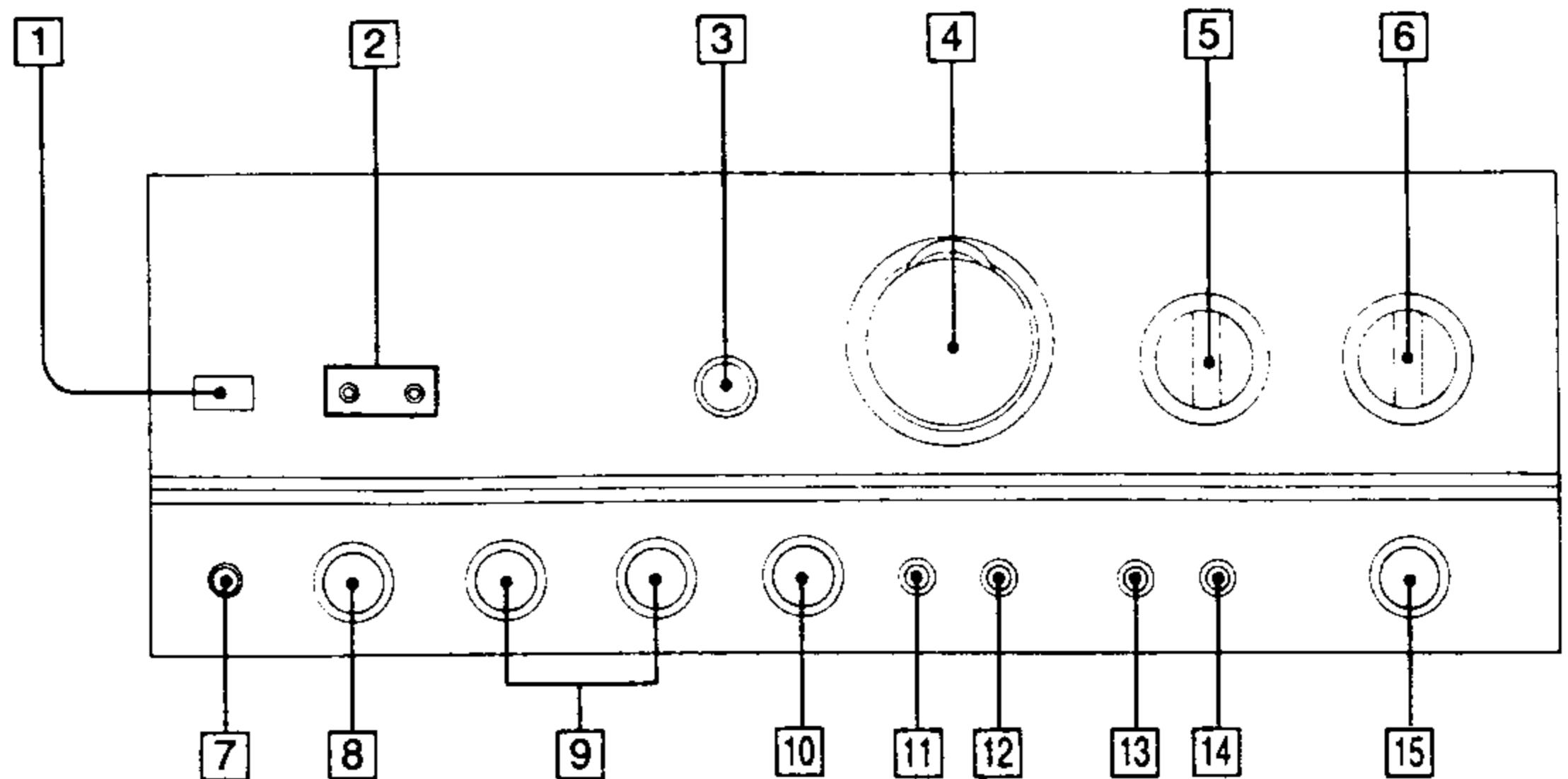
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ ACCESSORY



- AC power supply cords 1
 <SFDAC05E03> For (E), (EG) areas.
 <SJA193> For (EB) area only.

■ LOCATION 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 operation condition.

CURRENT DRIVE:

When the power is switched ON, this indicator illuminates after about 4 seconds when the unit is in the operation 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 does not illuminate.

**3 Power amplifier direct switch
(POWER AMP DIRECT)**

This switch is used to listen to the sound from a component connected to the "POWER AMP DIRECT" terminals.

When this switch is pressed inward to the "ON" position, a superior level of tone quality can be obtained, because the signals from the component connected to the "POWER AMP DIRECT" terminals are sent directly to the volume control and power amplifier section of this unit. The tone control circuit, balance control, loudness switch, muting switch and mode selector are bypassed.

4 Volume control/indicator (VOLUME)

There are two types of volume scale indications: one for when the extended direct drive selector (for SU-VX800) or the power amplifier direct switch (for SU-VX700) is OFF, and one for when it is ON (Indicator will illuminate.).

5 Recording output selector (REC SELECTOR)

This selector is used to select the sound source to be recorded by the connected tape deck 1 and/or tape deck 2 (or DAT).

6 Input selector (INPUT SELECTOR)

This selector is used to select the sound source to be heard, such as a disc, radio broadcast, etc.

7 Headphones jack (PHONES)

8 Speaker selector (SPEAKERS)

This selector is used to select the speaker systems to be used.

OFF: No sound will be heard from the speaker systems.

A: Sound can be heard from the speaker systems connected to the "A" terminals.

B: Sound can be heard from the speaker systems connected to the "B" terminals.

A+B/BI-WIRING: Sound can be heard simultaneously from the speaker systems connected to the "A" terminals and the "B" terminals. Or, if bi-wired speaker systems are connected, sound can be heard from them.

9 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.

10 Balance control (BALANCE)

This control is used to adjust the left/right volume balance.

11 Tone control switch (TONE CONTROL)

This switch is used to set the tone control circuit (bass, treble) ON or OFF.

12 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 Mode selector (MODE)

This selector is used to select stereo or monaural operation.

**15 Phono cartridge selector
(PHONO SELECTOR)**

This selector should be set to the position which corresponds to the type of cartridge used on the turntable. The "SUBSONIC" position 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.

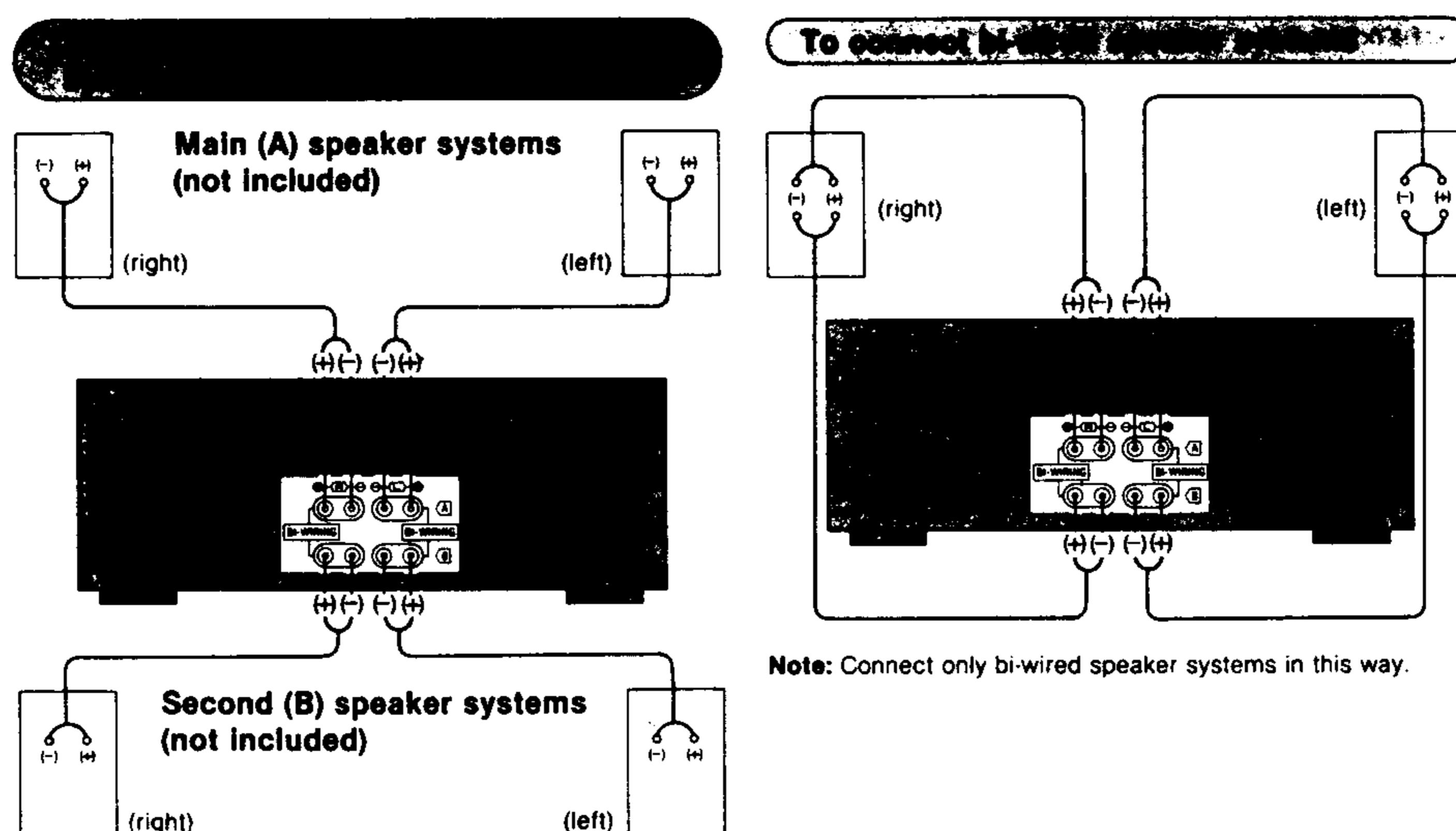
13 Muting switch (MUTING)

This switch is used to temporarily reduce the volume level (approx. 1/10).

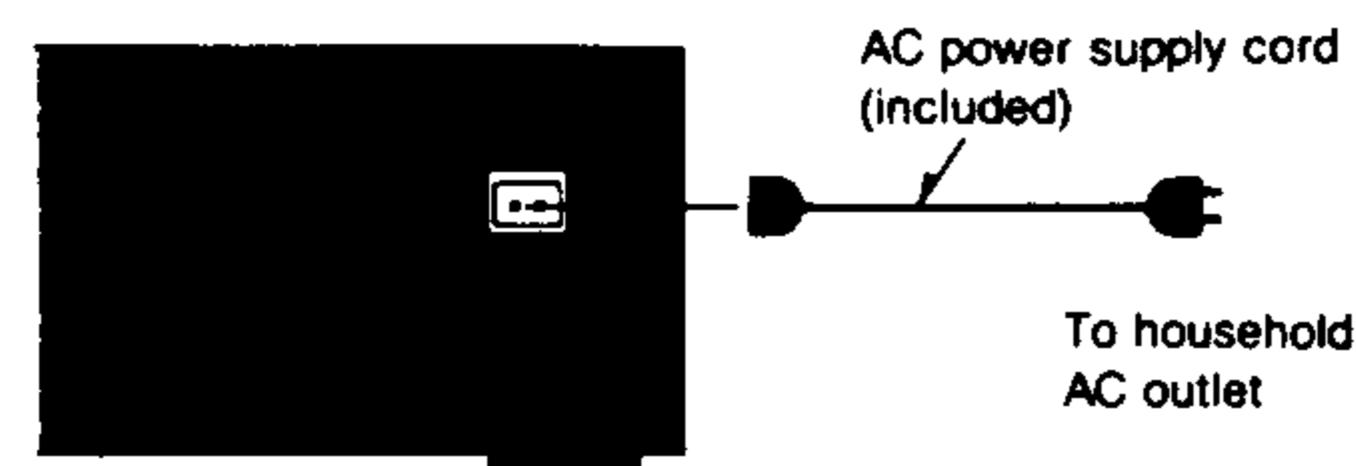
The effect activates when setting this switch to the "ON" position.

■ CONNECTIONS

Connection to speaker systems



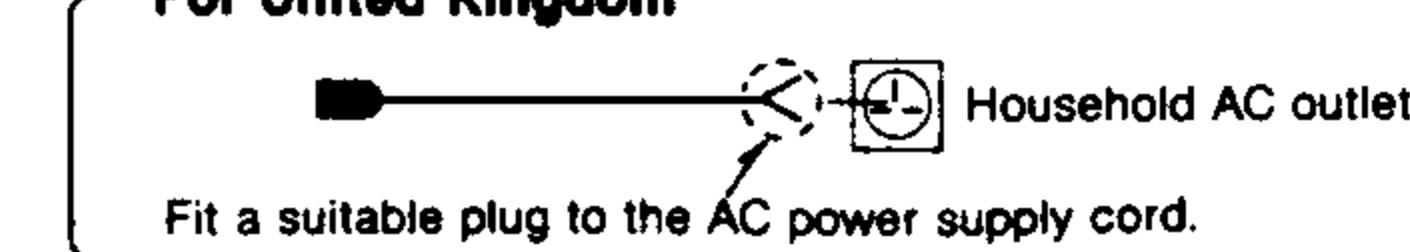
To connect the AC power supply cord (included)



Notes:

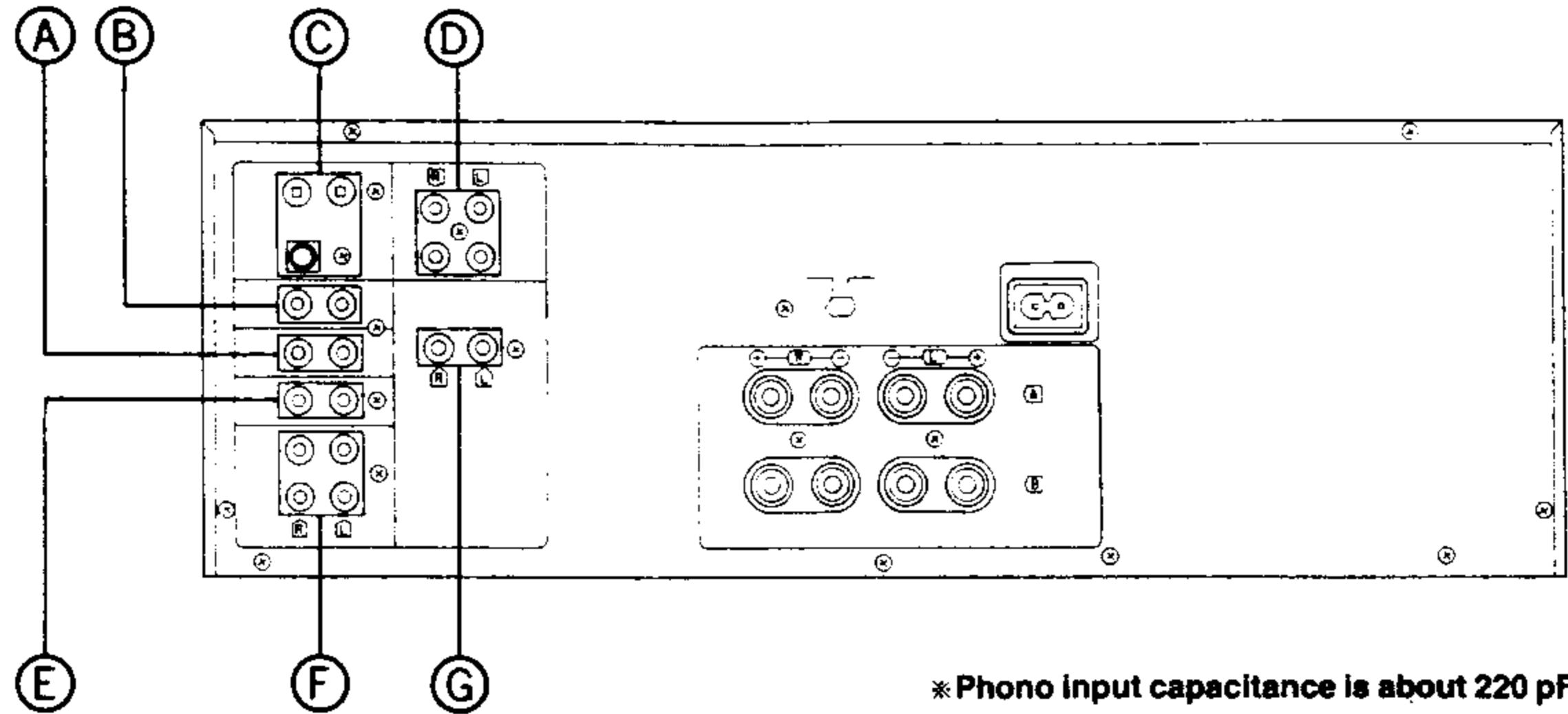
- Connect the AC power supply cord (included) after all other cables and cords are connected.
- The configuration of the AC outlet and AC power supply cord differs according to area.

For United Kingdom



To connect to each terminals

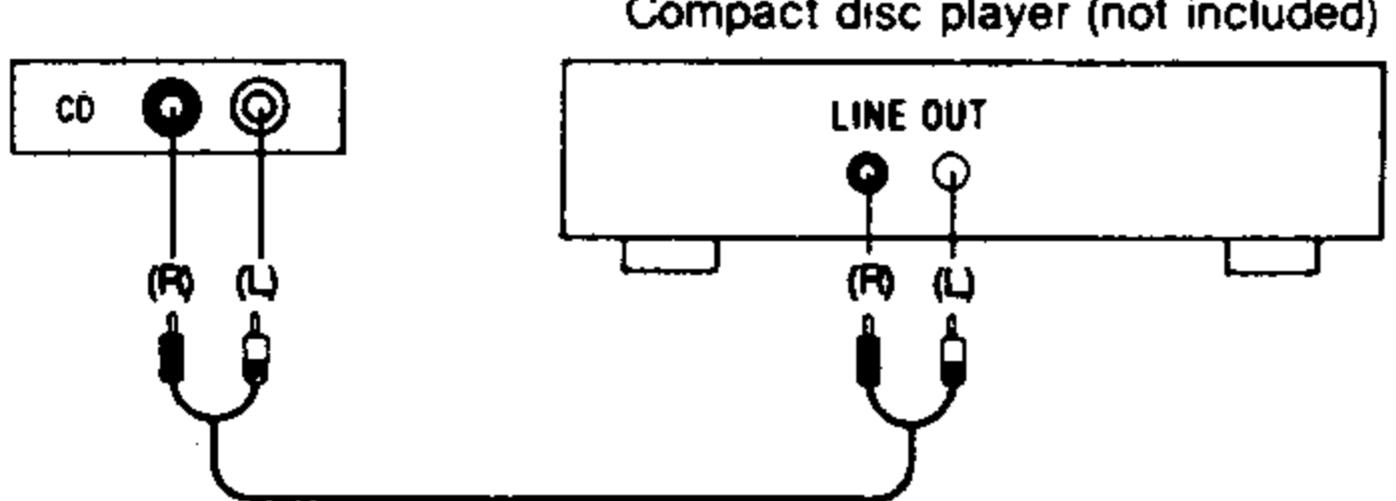
Make connections to each component in the system by using stereo connection cables (not included).



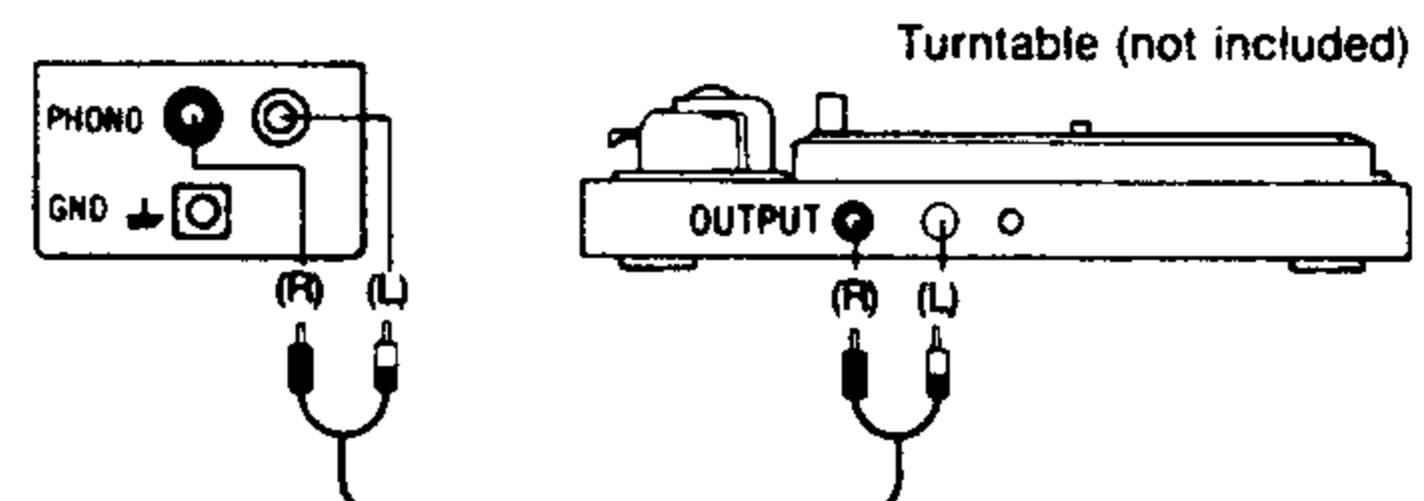
*Phono input capacitance is about 220 pF.

(A) "CD" terminals

Connect a compact disc player.

**(C) "PHONO" terminals**

Connect a turntable. See "Using the short-circuit pins", below.

**"GND" terminal**

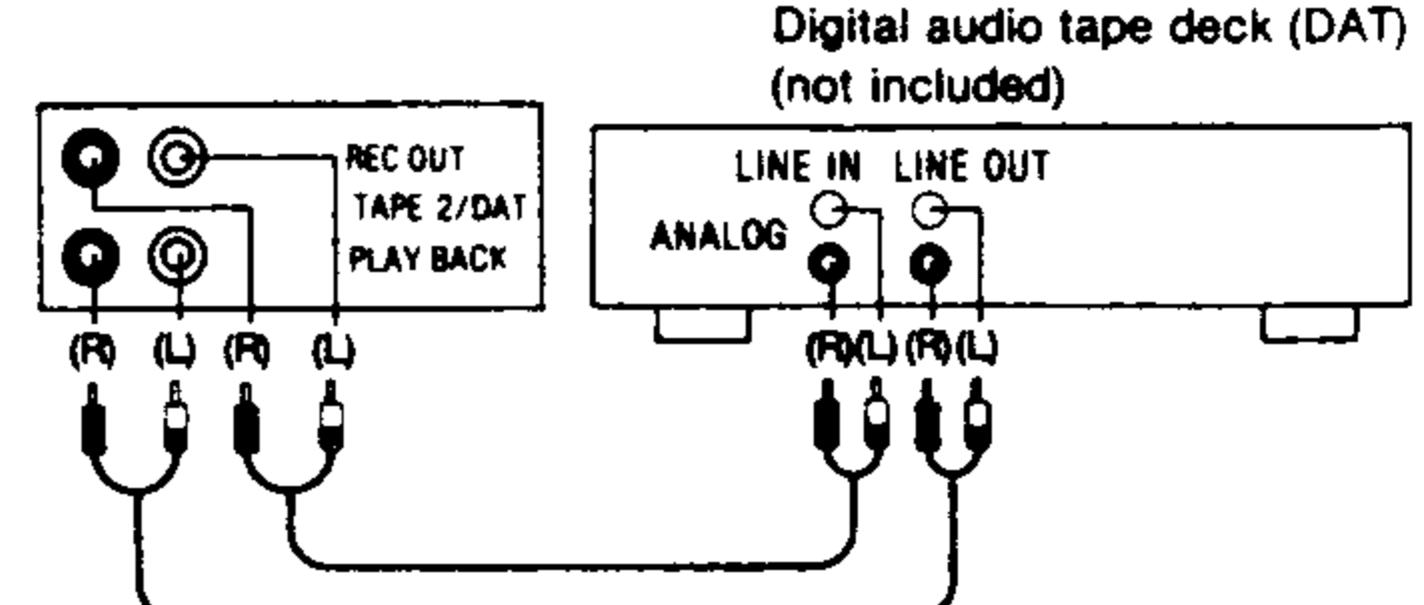
This terminal is for use with a turntable which has a ground wire.

Using the short-circuit pins (included)

Short-circuit pins are inserted into the "PHONO" terminals to reduce noise. Remove the pins before connecting a turntable and reinser them if the turntable is later disconnected. Never connect a short-circuit pin to a "REC OUT" terminal or any terminal other than those above.

(D) "TAPES" terminals

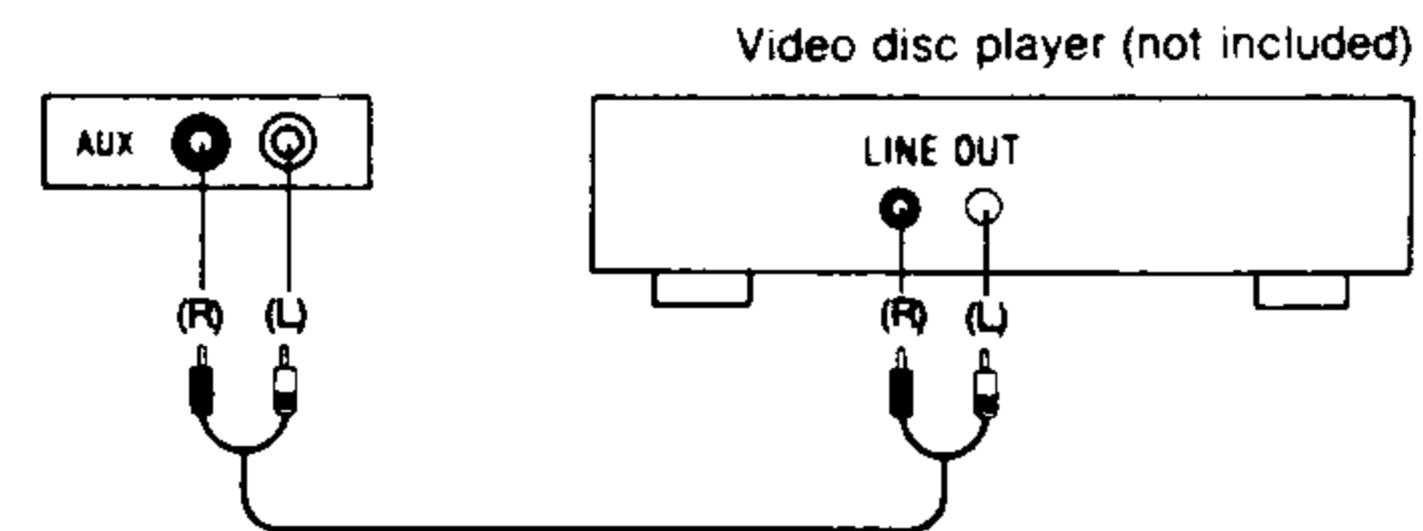
Connect a tuner.



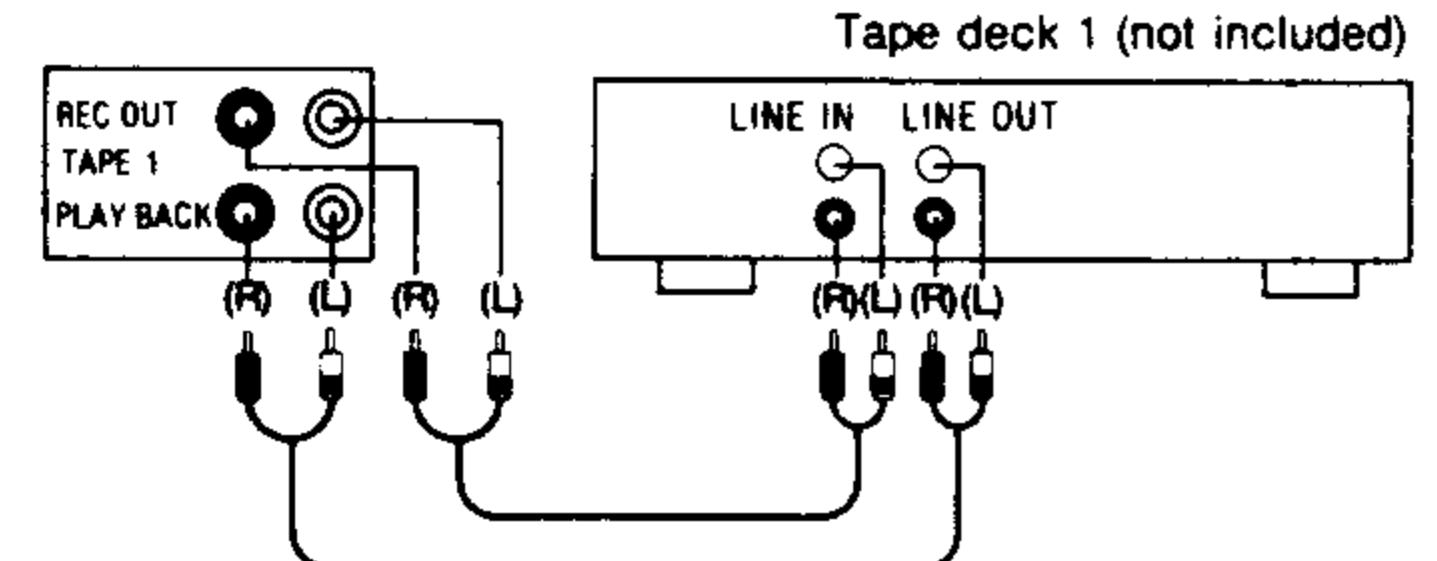
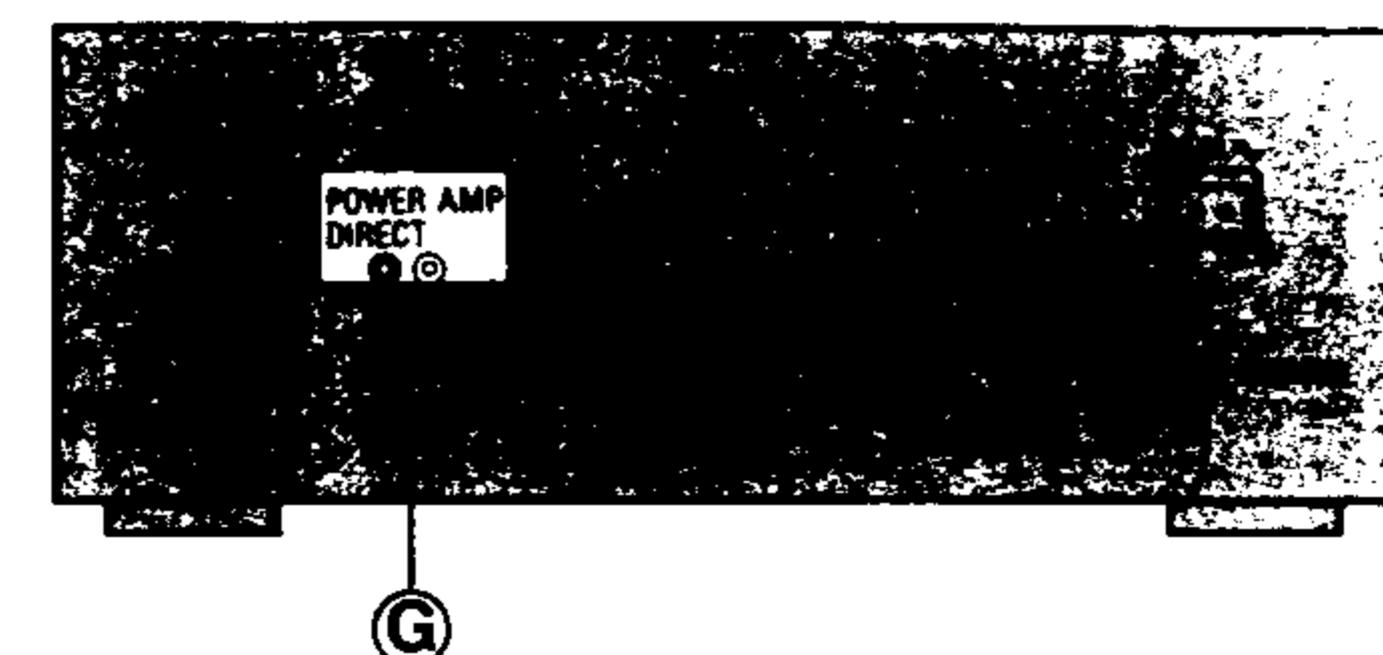
Connect a second tape deck or a digital audio tape deck (DAT).

(E) "AUX" terminals

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

**(F) "TAPE 1" terminals**

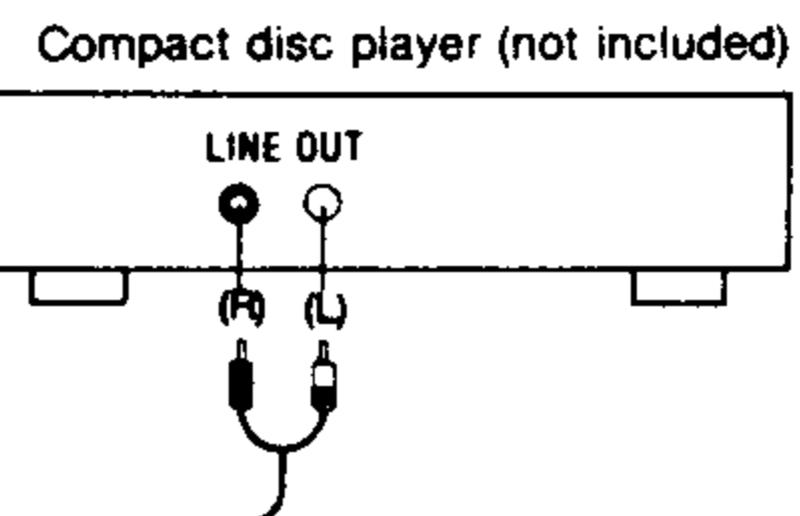
Connect a first tape deck.

**(G) "POWER AMP DIRECT" terminals**

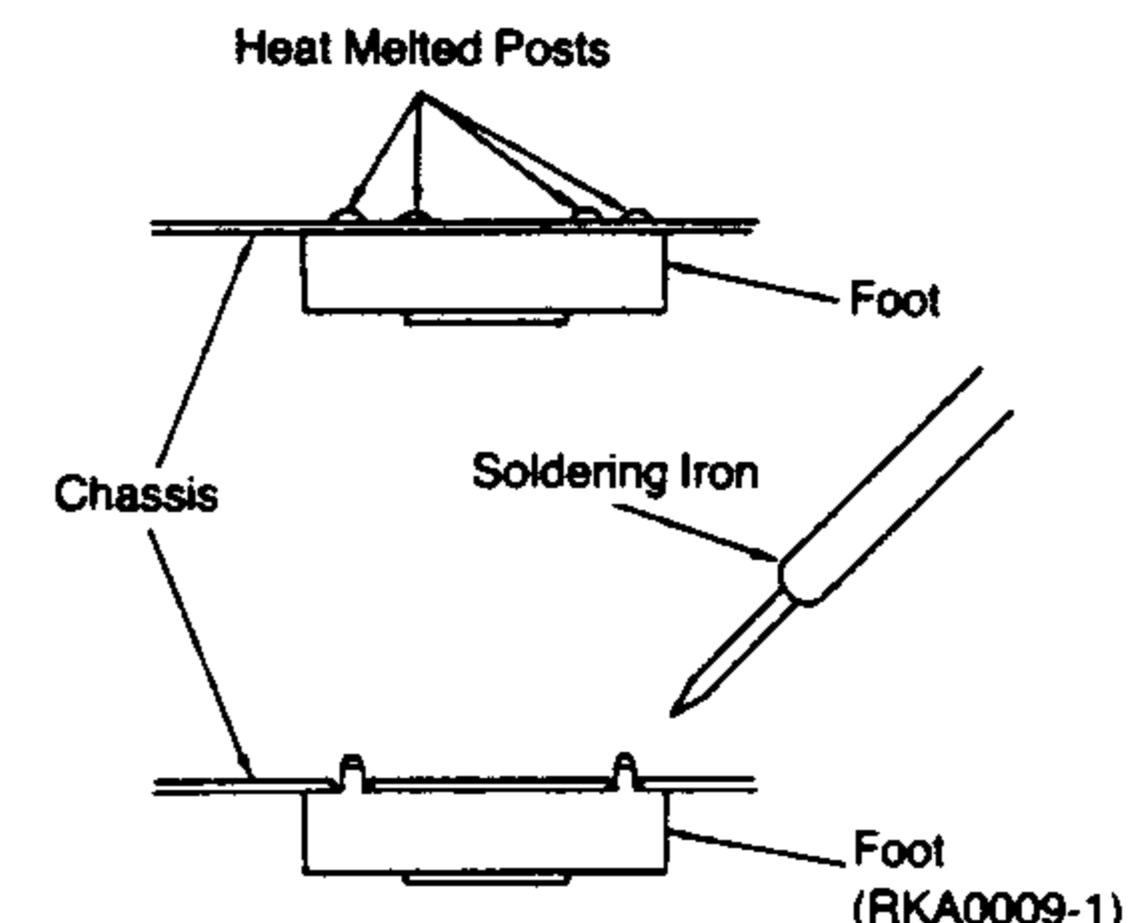
Connect a compact disc player, a digital audio tape deck, or a D/A converter.

A superior level of tone quality can be obtained, because the signal from these terminals are sent directly to the volume control and power amplifier section of this unit.

The sounds from a component connected to these terminals cannot be recorded.

**•Replacement of the Foot.**

1. Remove the 4 heat melted posts on the chassis with a pair of nippers or similar tool.
2. To replace the foot (RKA0009-1) on the chassis, melt the 4 posts with a soldering iron.



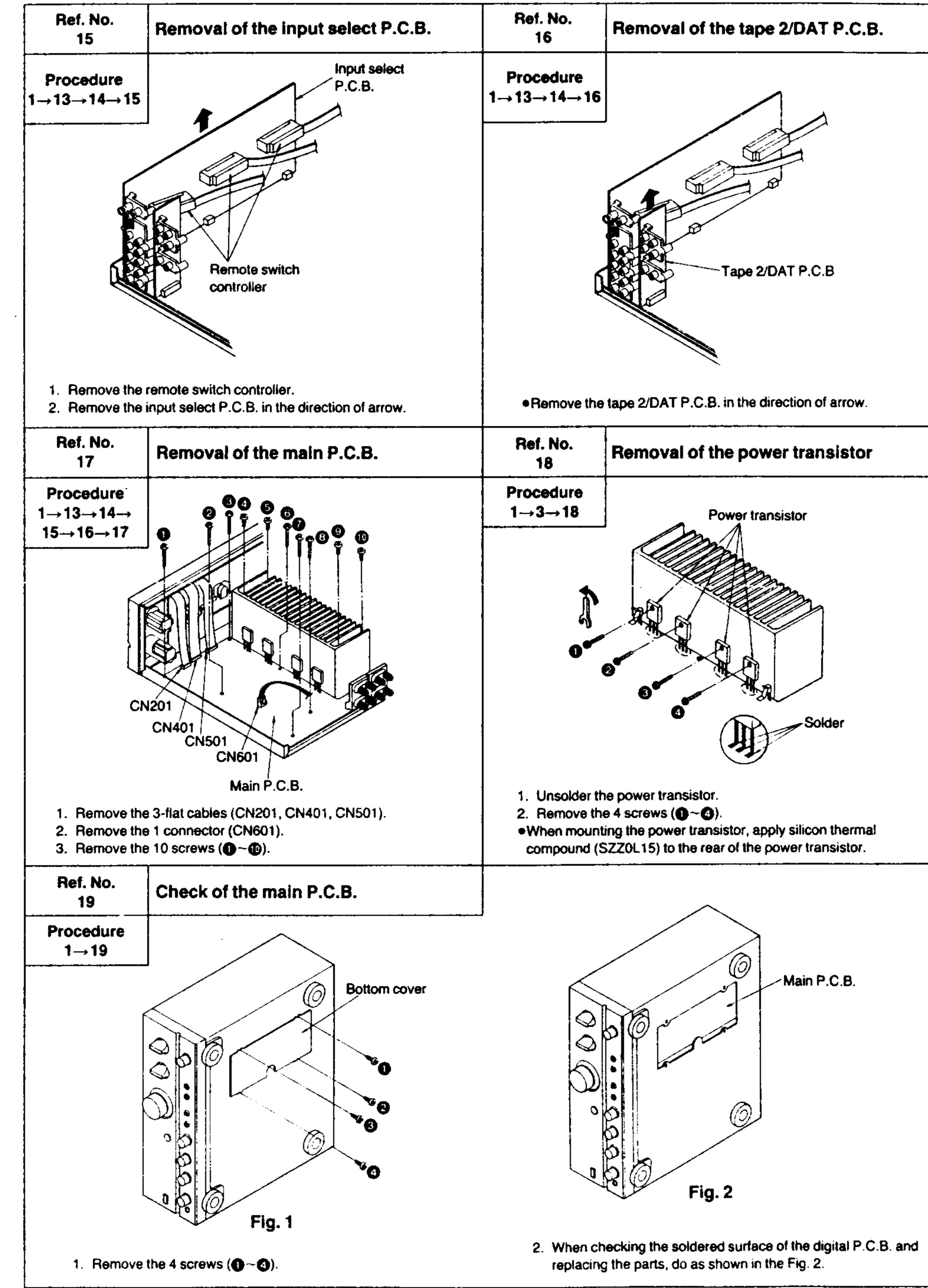
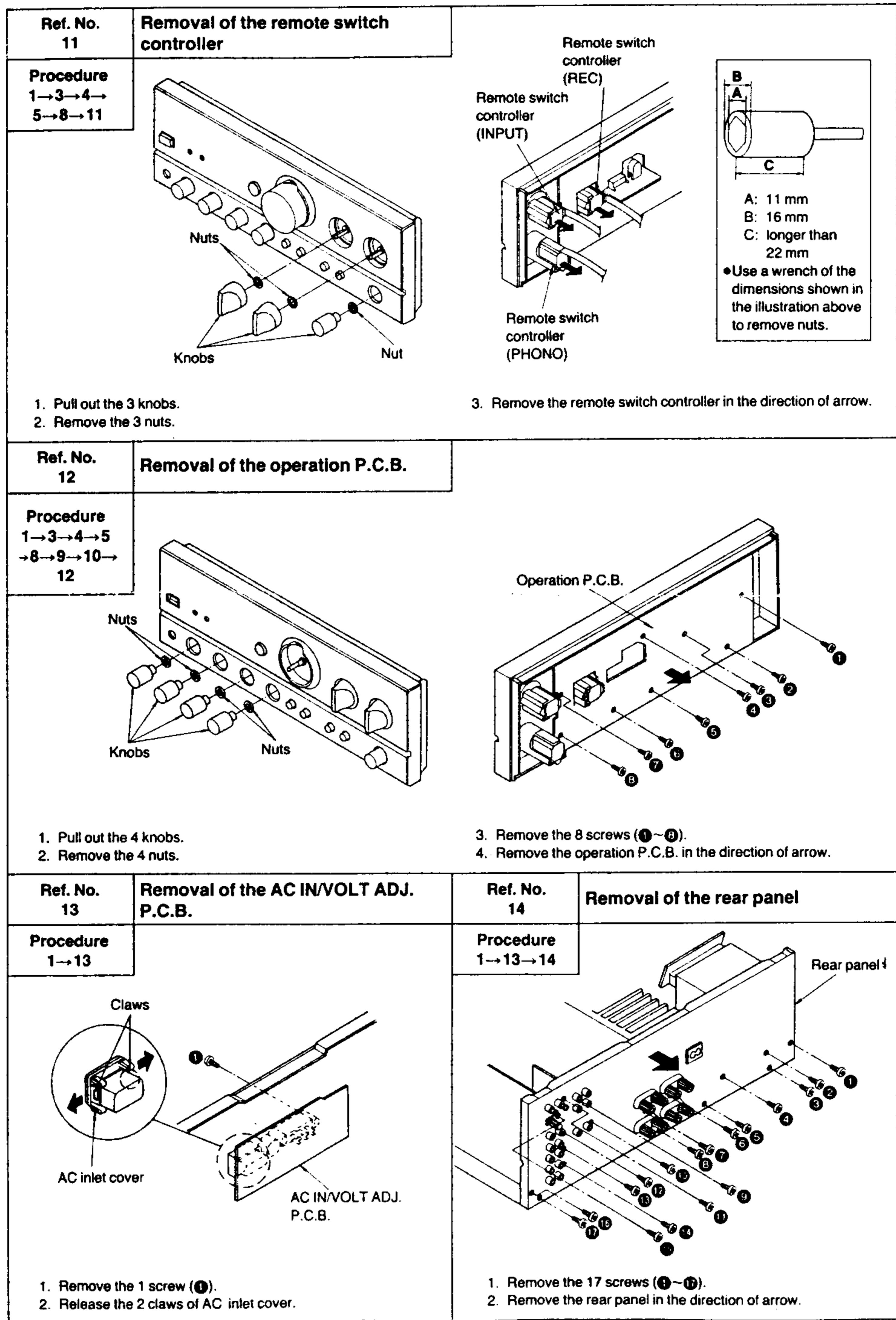
■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"

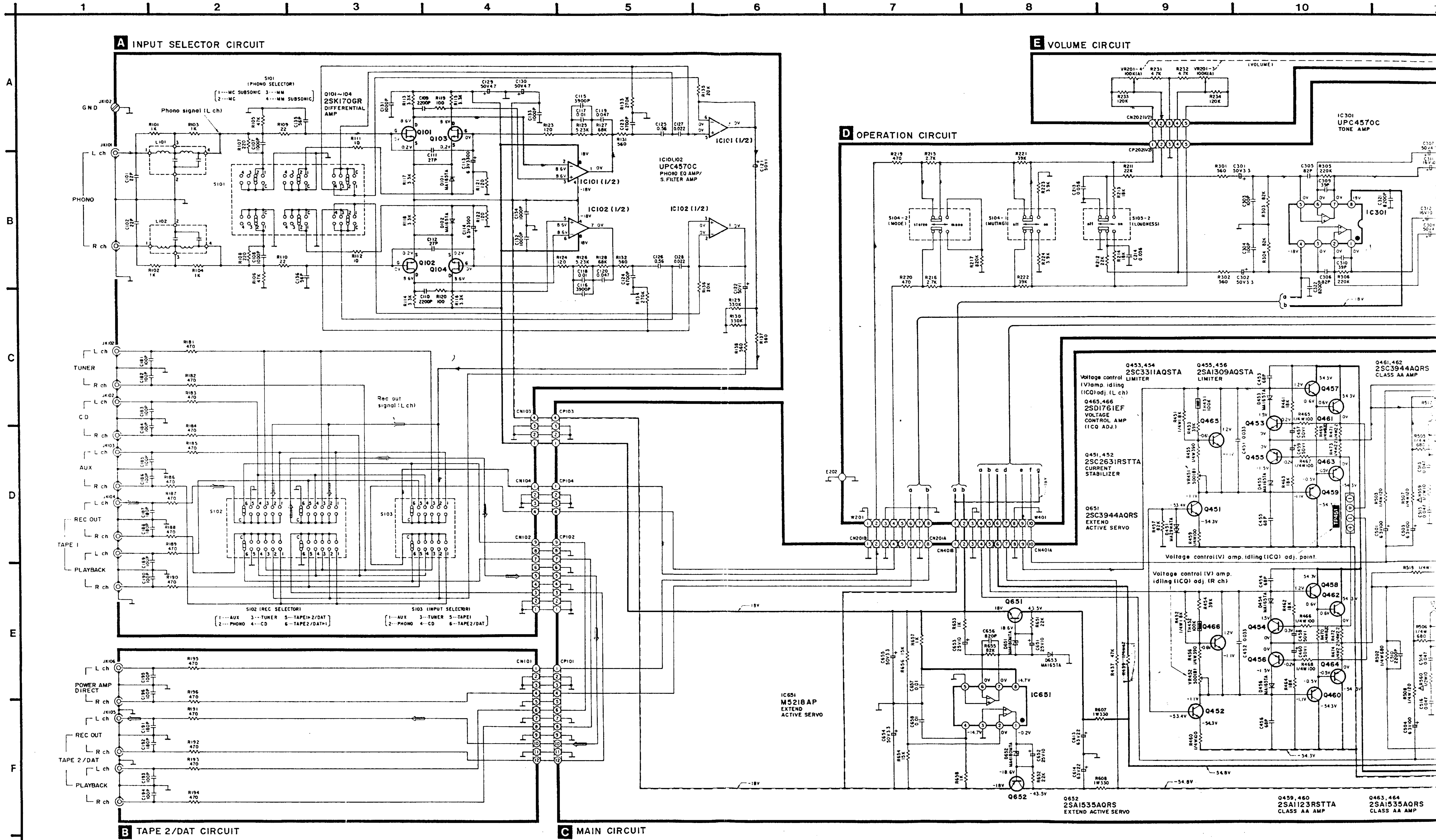
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

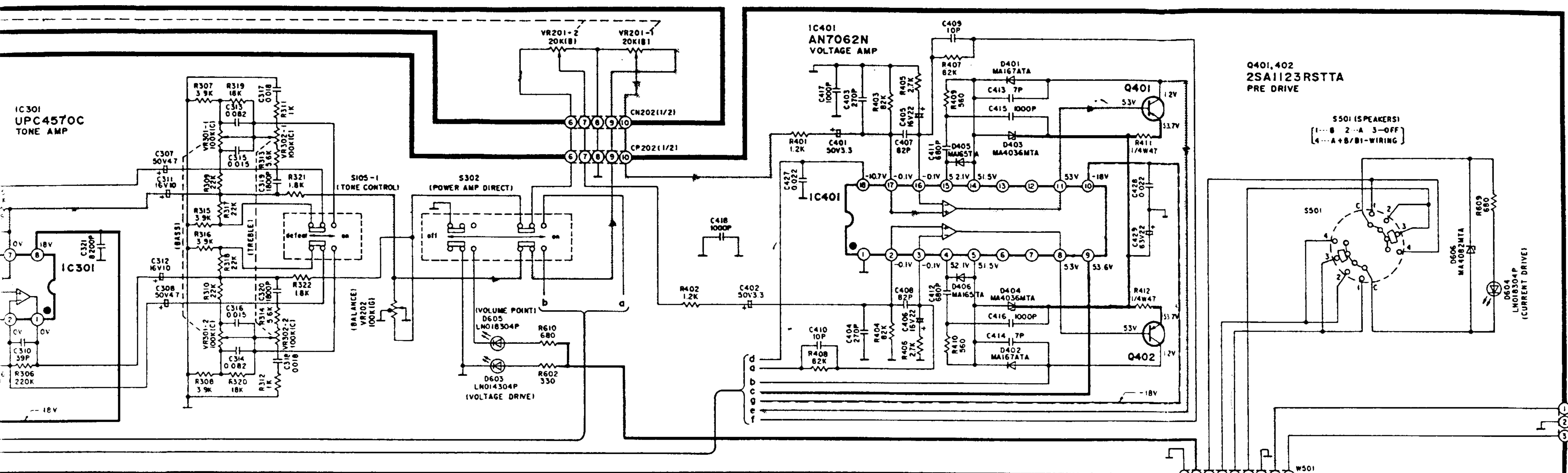
Ref. No. 1	Removal of the cabinet	Ref. No. 2	Removal of the Upper Plate
Procedure 1	<ul style="list-style-type: none"> Remove the 8 screws (①~⑧). <p>Attention: When removing the cabinet from the unit, please don't forget to remove the 2 screws (④, ⑤) of the upper plate. Unless you remove the 2 screws (④, ⑤), it may change shape of the cabinet.</p>	Procedure 1→2	<ul style="list-style-type: none"> Release the 4 claws.
Ref. No. 3	Removal of the P.C.B. angle	Ref. No. 4	Removal of the side angle
Procedure 1→3	<ul style="list-style-type: none"> Remove the 4 screws (①~④). 	Procedure 1→4	<ul style="list-style-type: none"> Remove the 2 screws (①, ②).
Ref. No. 5	Removal of the angle (A) and angle (B)	Ref. No. 6	Removal of the capacitor block P.C.B.
Procedure 1→3→5	<ul style="list-style-type: none"> Remove the 4 screws (①~④). 	Procedure 1→4→6	<ol style="list-style-type: none"> Remove the 1 connector (CN601). Remove the 4 screws (①~④).

Ref. No. 7	Removal of the power transformer	Ref. No. 8	Removal of the front panel ass'y
Procedure 1→4→7	<ul style="list-style-type: none"> Remove the 4 screws (①~④). 	Procedure 1→3→4→5→8	<ol style="list-style-type: none"> Remove the remote switch controller. Remove the 3 flat cables (CN201, CN401, CN501).
			■ Removal of the remote switch controller <ul style="list-style-type: none"> Remove the 4 claws.
			S101 (PHONO) S102, S103 (REC, INPUT)
			■ Replacing of the remote switch controller <ol style="list-style-type: none"> Turn the selector knobs to the arrows. Put the switch slider of switch to end and put in the remote switch controller.
			<ol style="list-style-type: none"> Remove the 4 screws (①~④). Remove the front panel ass'y in the direction of arrow.
Ref. No. 9	Removal of the power switch/ headphones jack P.C.B.	Ref. No. 10	Removal of the volume P.C.B.
Procedure 1→3→4→5→8→9		Procedure 1→3→4→5→8→9	
			<ol style="list-style-type: none"> Pull out the volume knob. Remove the nut. Release the 1 claw.



■ SCHEMATIC DIAGRAM (Parts list on pages 25~27.)





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

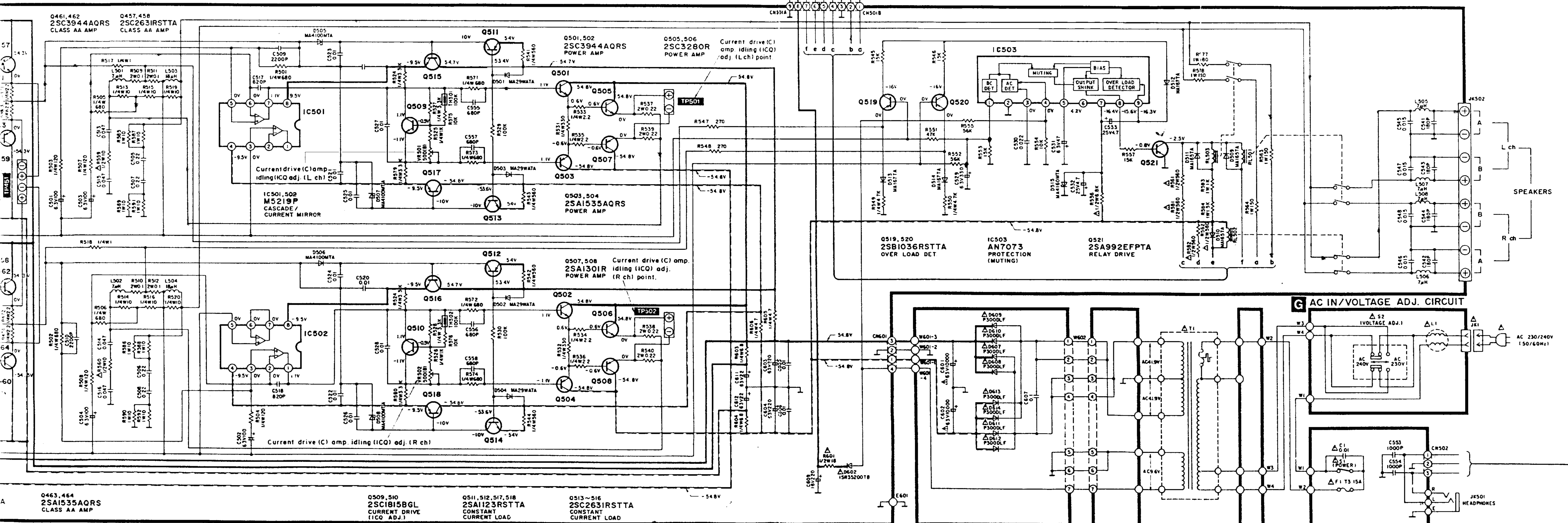
Notes:

- S1 : Power switch in "on" position.
- S2 : Voltage selector switch in "240 V" position.
(230 V/240 V)
- S101 : Phono cartridge selector (PHONO SELECTOR) switch in "MC" position.
- S102 : Recording output selector (REC SELECTOR) switch in "TAPE2/DAT ▶ 1" position.
- S103 : Input selector (INPUT SELECTOR) switch in "TAPE2/DAT" position.
- S104-1/2 : Muting (MUTING)/Mute selector (MODE) switches.
- S105-1/2 : Loudness (LOUDNESS)/Tone control (TONE CONTROL) switches.
- S302 : Power amplifier direct (POWER AMP DIRECT) switch.
- S501 : Speaker selector (SPEAKERS) switch.
- — : Positive voltage line.
- : Negative voltage line.
- : Phono signal line.
- : Recording signal line.

• 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.

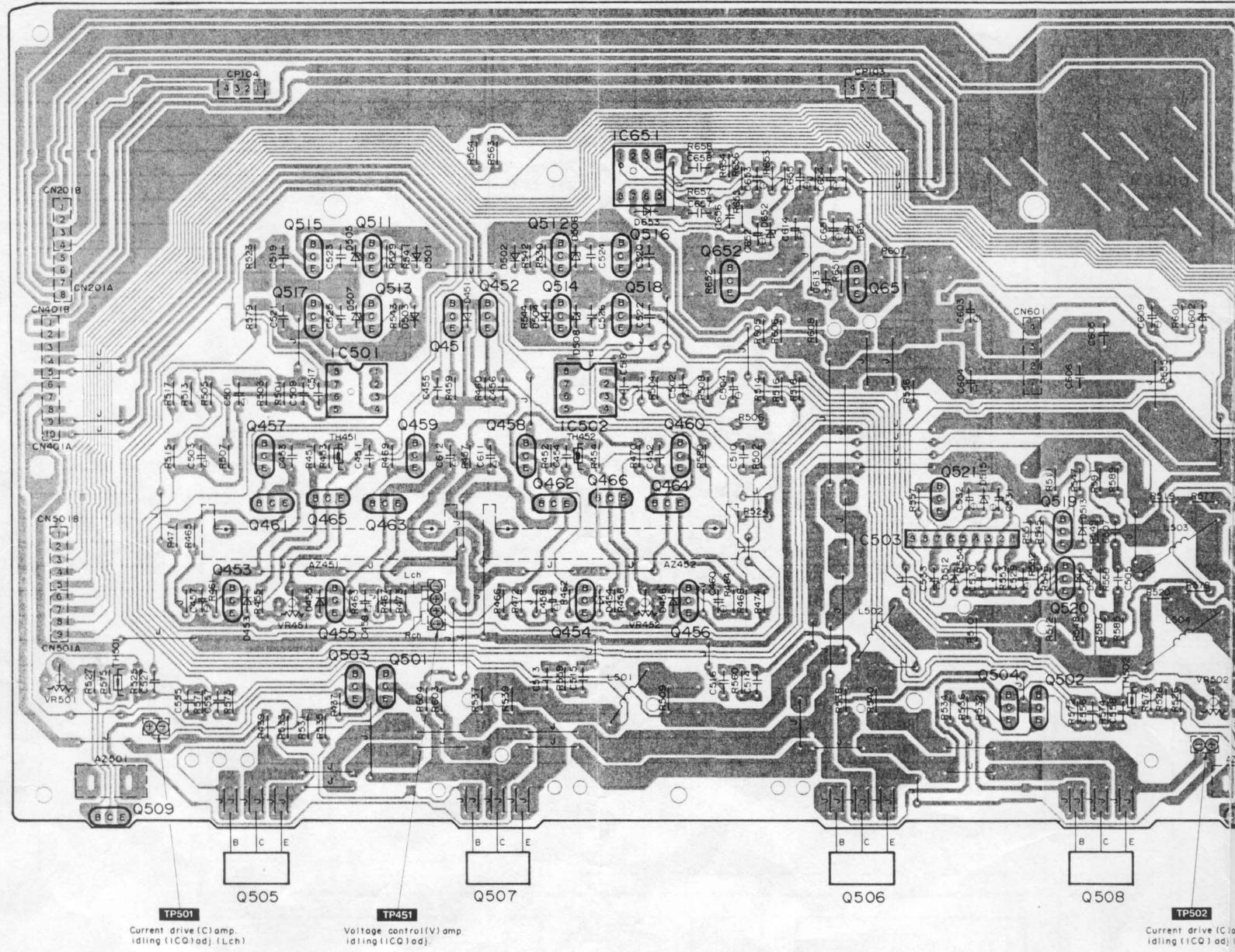
• Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

• 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.

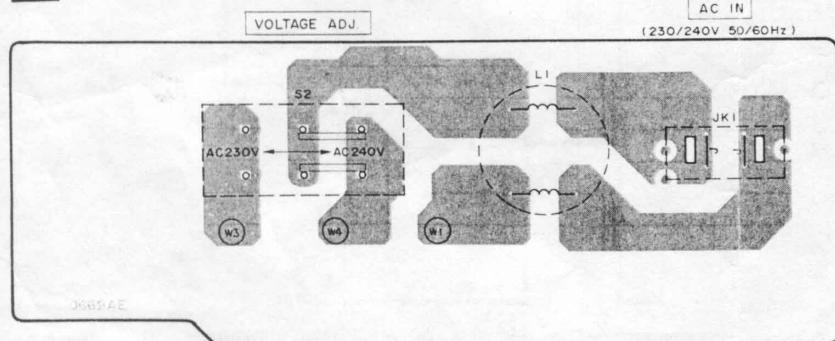


PRINTED CIRCUIT BOARDS (Parts list on pages 25~27.)

1



G AC IN/VOLTAGE ADJ. P.C.B.



6

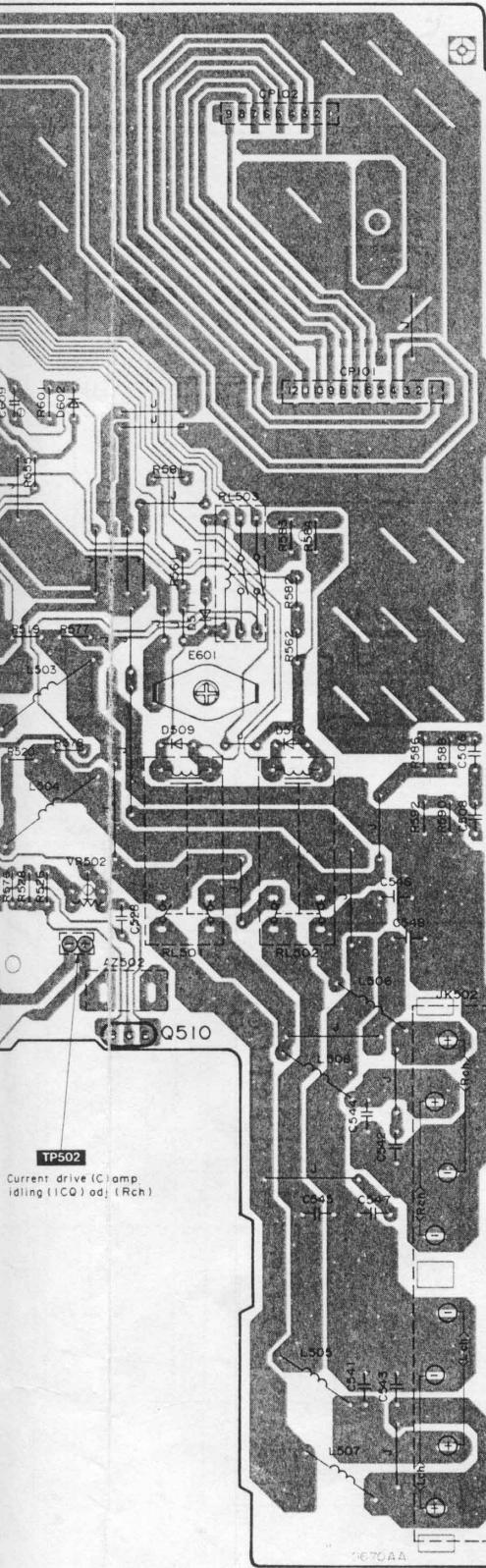
7

8

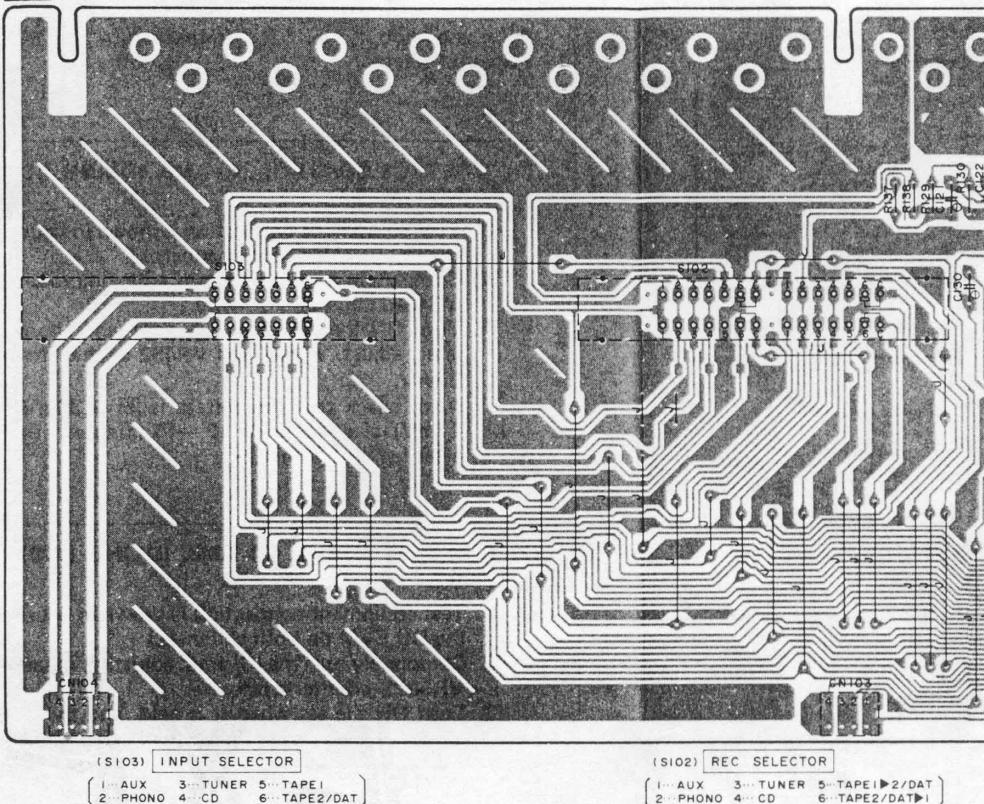
9

10

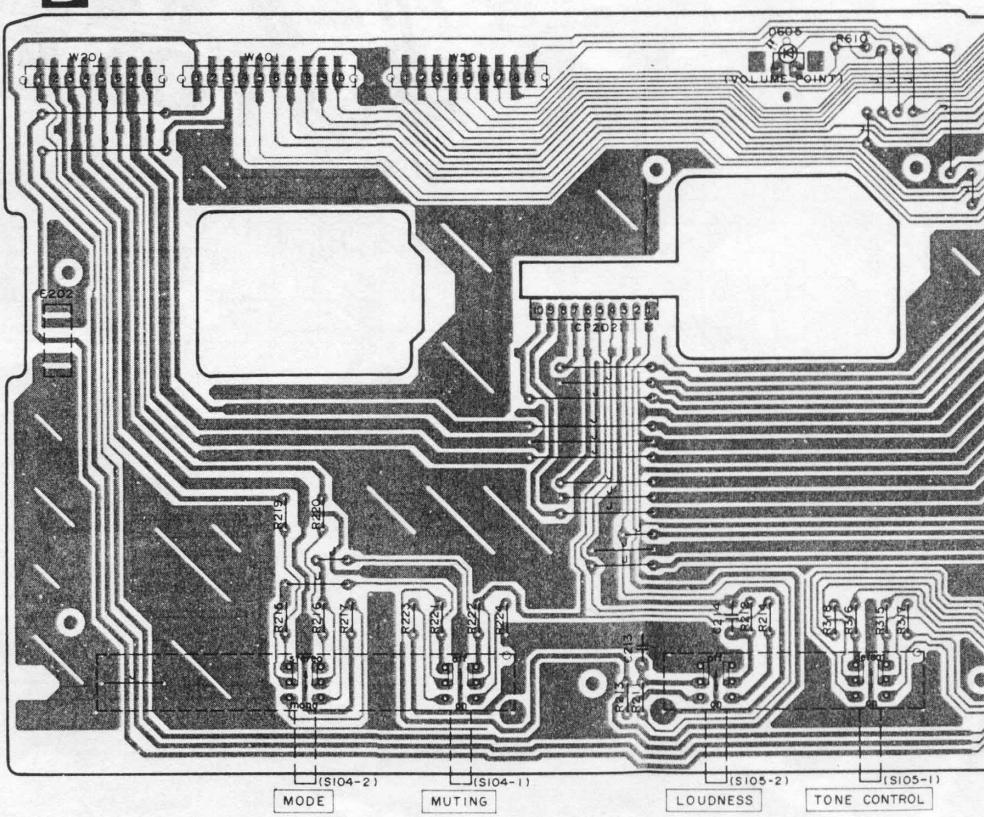
11



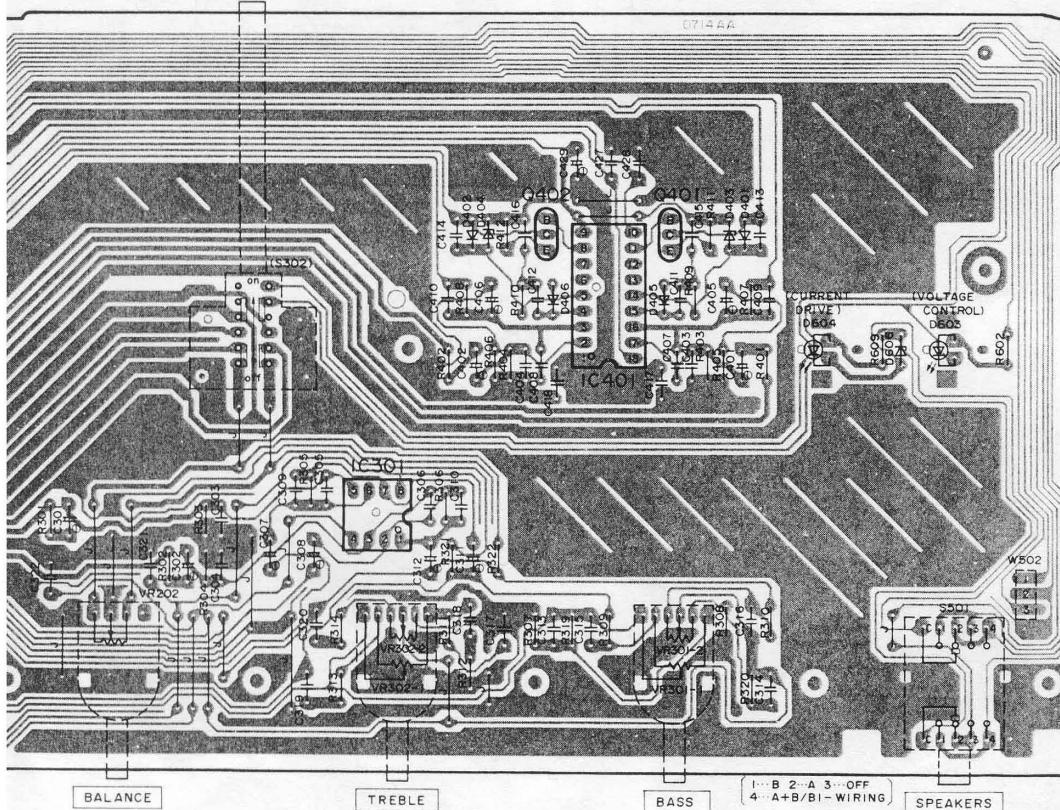
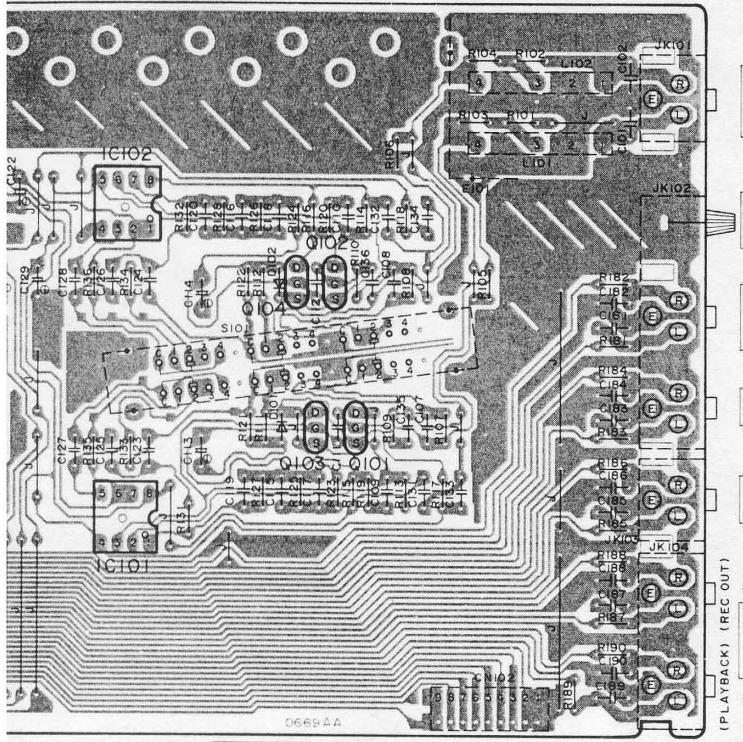
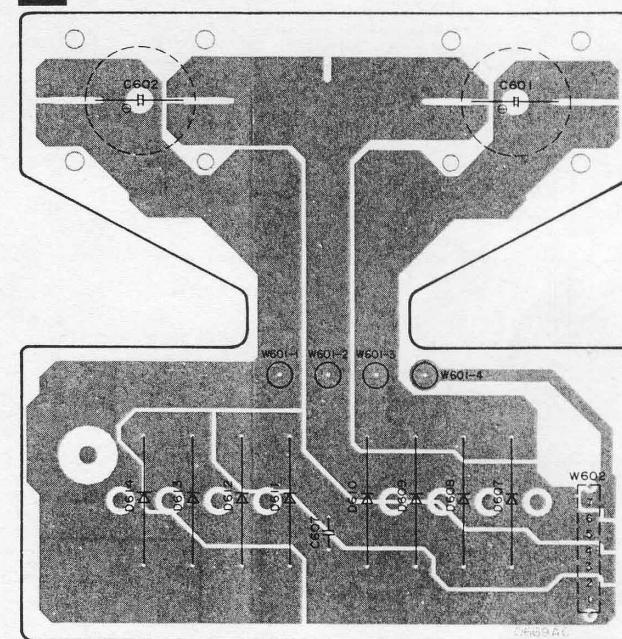
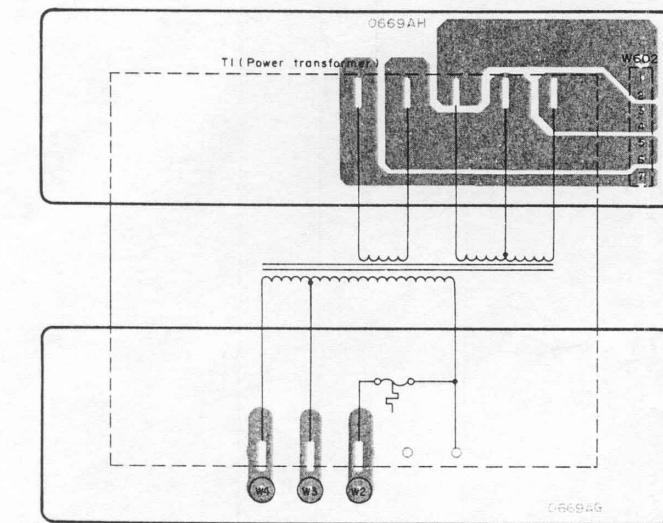
A INPUT SELECTOR P.C.B.



D OPERATION P.C.B.



12 13 14 15 16 17 18 19 20 21 22

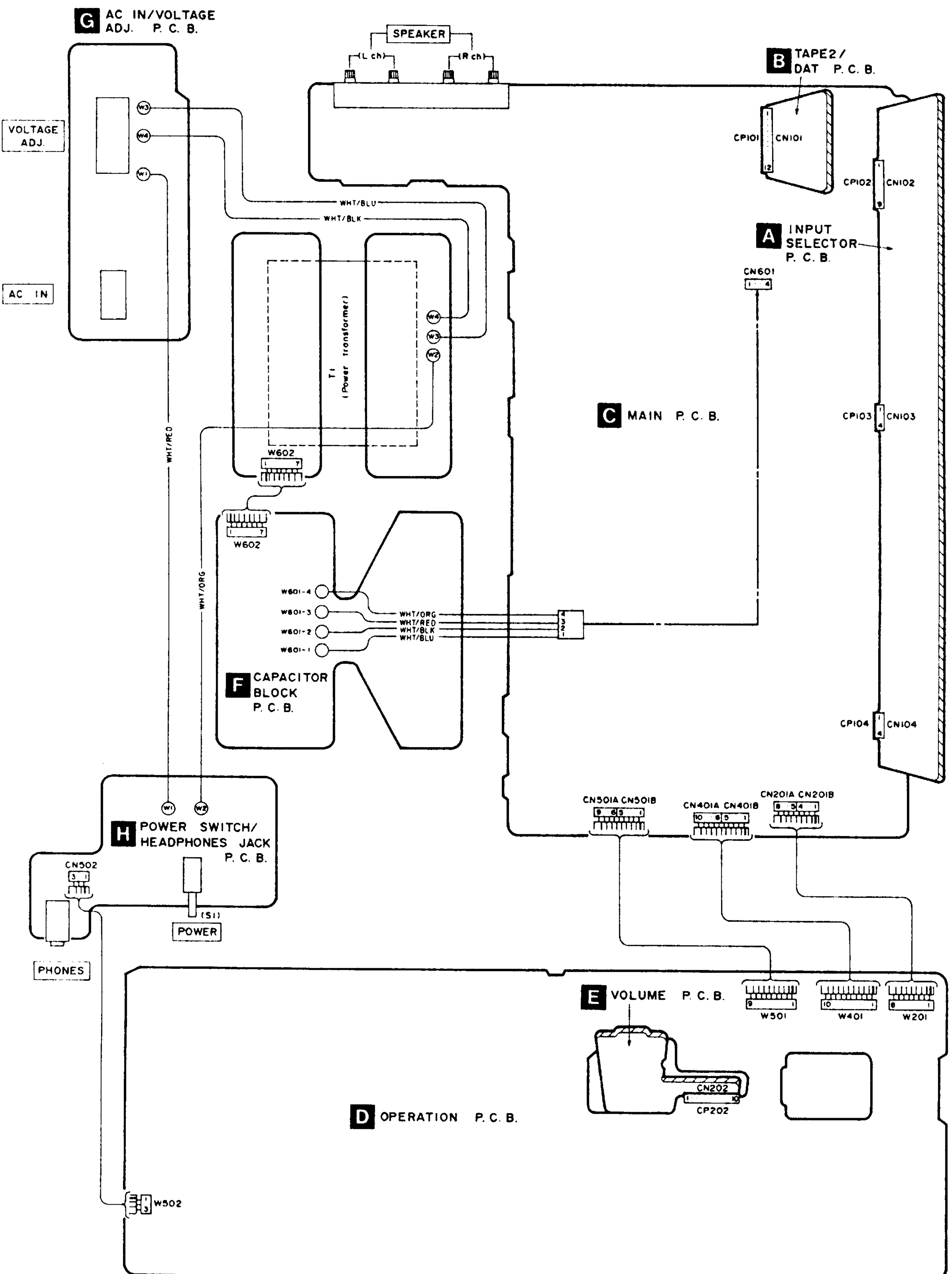
**F** CAPACITOR BLOCK PCB.**E** VOLUME PCB**H** POWER SWITCH/HEADPHONES JACK P.C.B.

• Terminal guide of IC's, transistors and diodes

M5218AP	M5219P	UPC4570C 8 pin
		AN7062N 18 pin
AN7073		2SA1309AQSTA 2SB1036RSTTA 2SC3311AQSTA
	E C B	2SA992EFPTA 2SA1123RSTTA 2SC1815BGL 2SC2631RSTTA
	D G S	2SK170GR
	E C B	2SA1535AQRS 2SC3944AQRS 2SD1761EF
	E C B	2SA1301R 2SC3280R
	E C B	MA4036MTA MA4082MTA
	CA Cathode A Anode	MA4036MTA MA4082MTA
	CA Cathode A Anode	MA4100MTA MA4160MTA MA4180MTA
	Ca Cathode A Anode	P300DLF
	Ca Cathode A Anode	LN014304P LN018304P

SU-VX700

■ WIRING CONNECTION DIAGRAM



B

PHONO

AUX

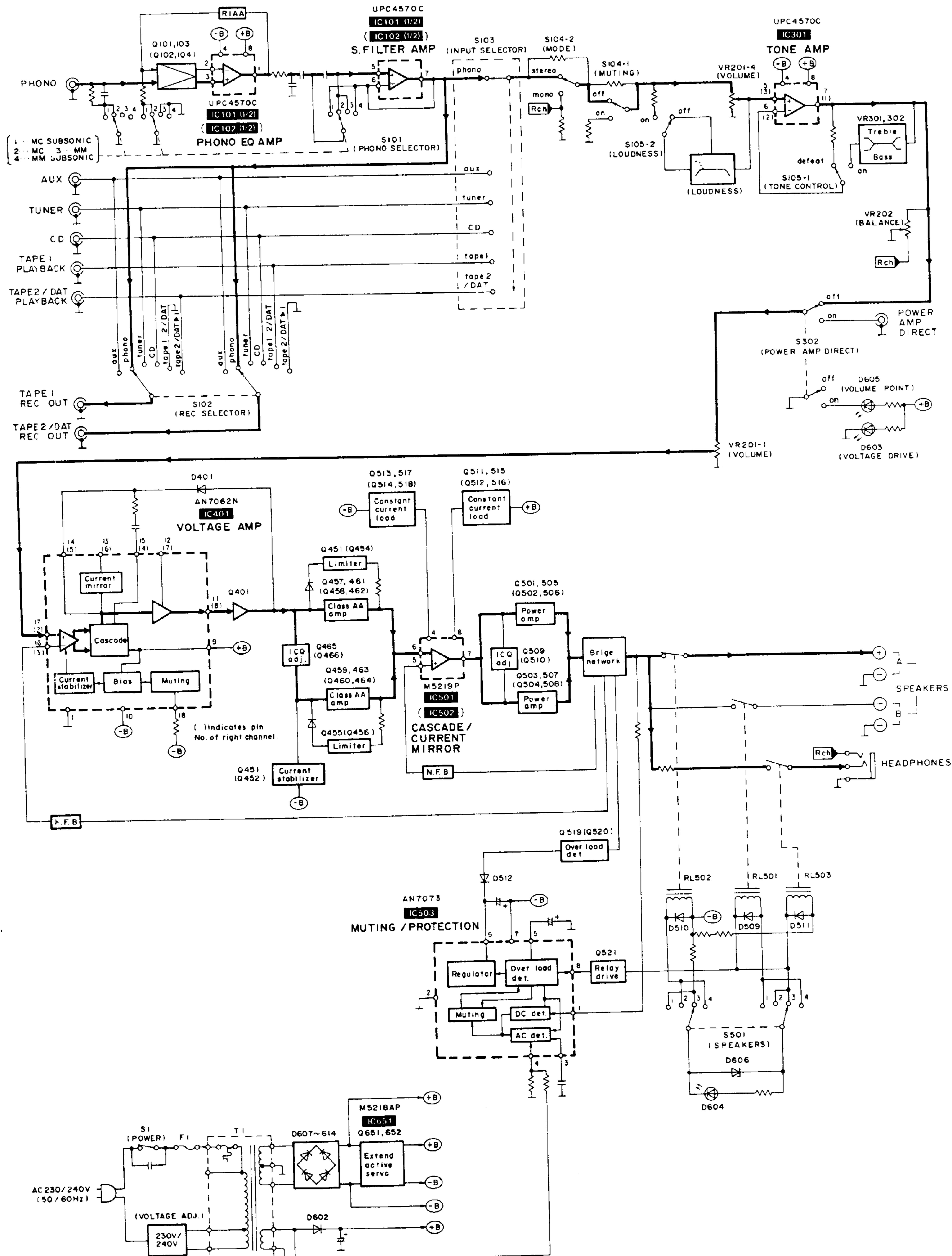
TUNER

CD

TAPE1
PLAYBACKTAPE2/DAT
PLAYBACKTAPE1
REC OUTTAPE2/DAT
REC OUT

N.F.

■ BLOCK DIAGRAM



■ MEASUREMENTS AND ADJUSTMENTS

•ADJUSTMENT

Control positions and equipment used.

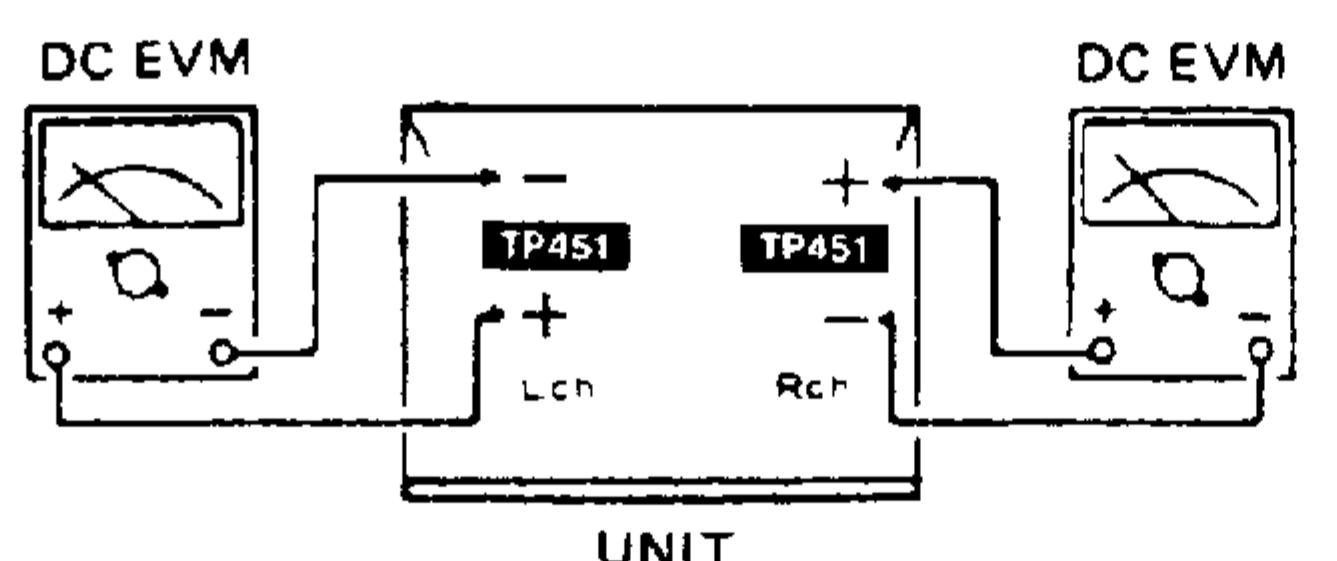
- Volume knob ∞ (Minimum)
- Speaker selector off

•AC and DC electronic voltmeter (EVM)

(1) 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 5 ~ 7 sec. later, adjust VR451 and VR452 so that the voltage is 25mV.

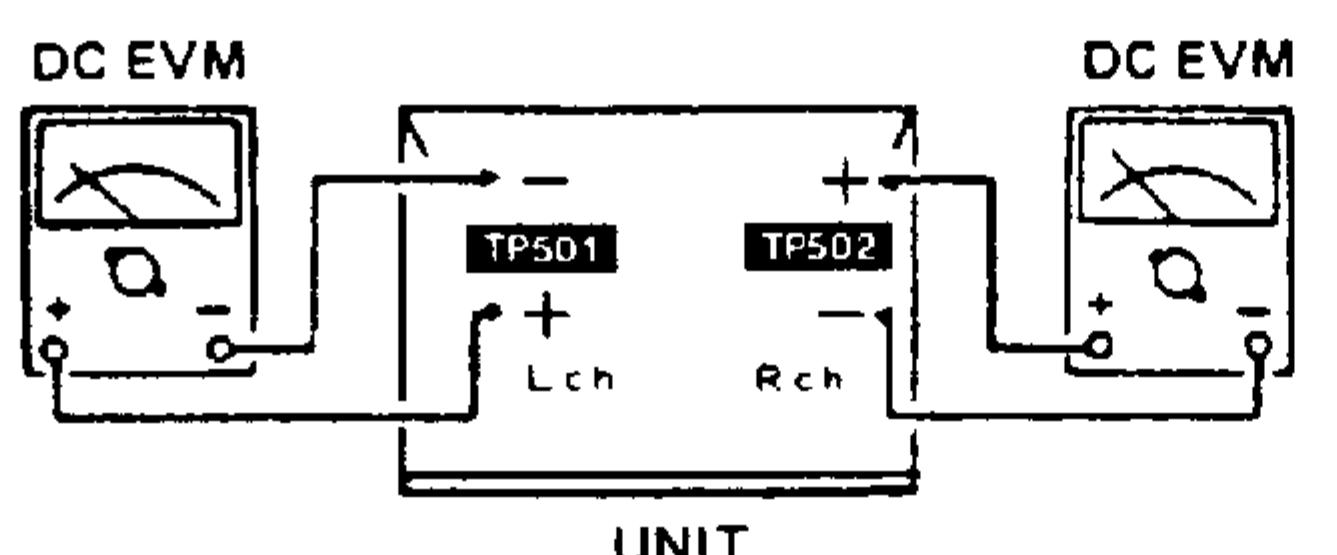
Also, check that the voltage is 25 ~ 30mV (standard: 27mV) after lapse of 10 ~ 15 minutes. (Below 50mV after lapse of 20min.).



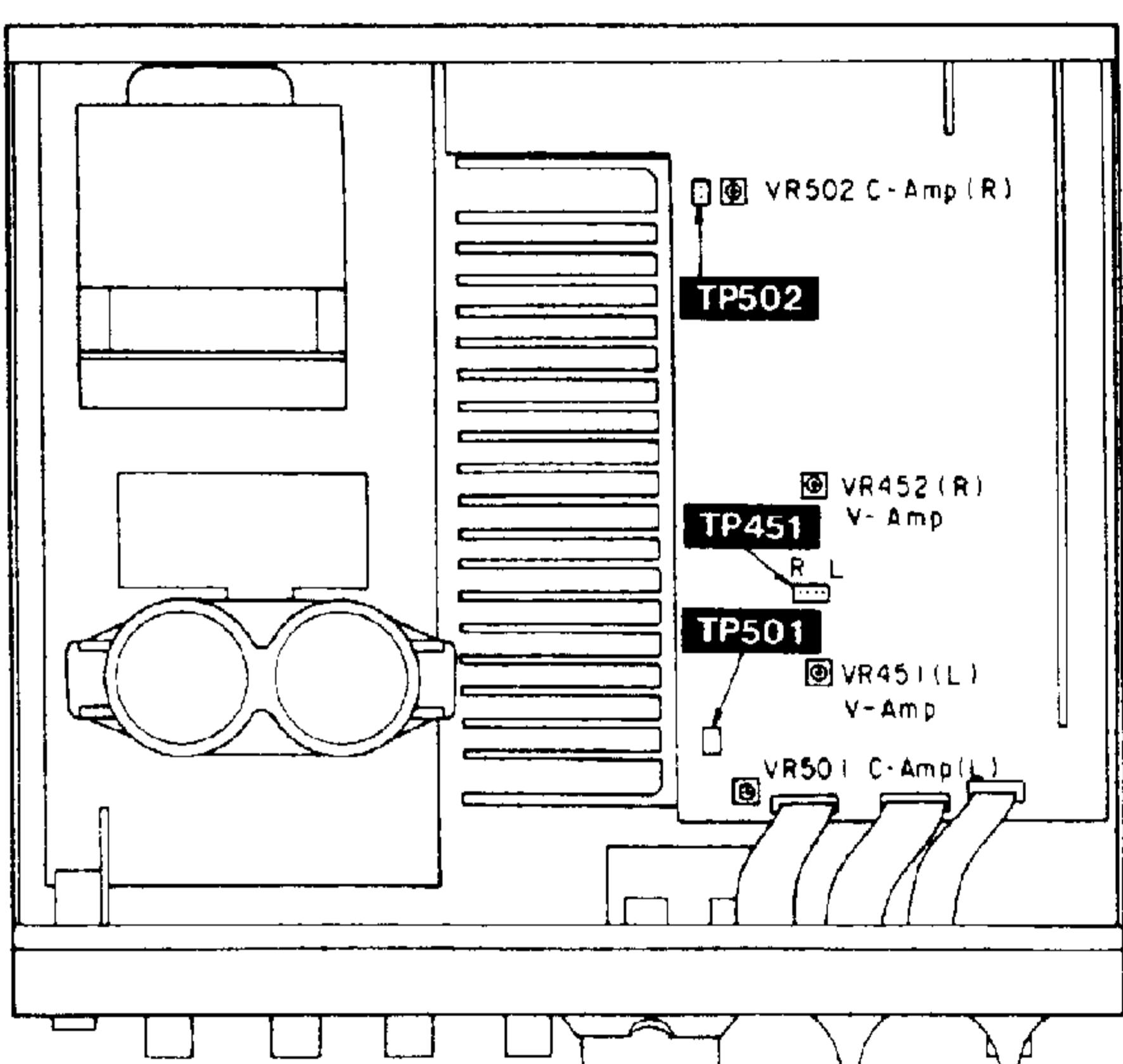
(2) CURRENT DRIVE (C) AMP. IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (C) amp. adjusting volumes (VR501, VR502) counter-clockwise.
3. Turn ON the set when it is cold, and the "VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT" later, adjust VR501 and VR502 so that the voltage is 3mV.

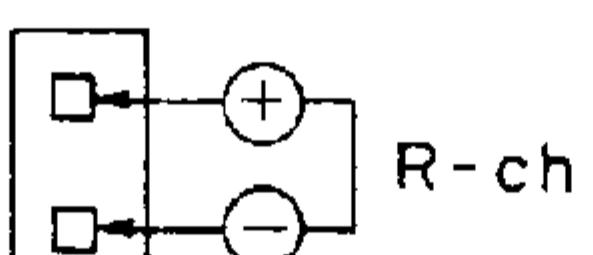
Also, check that the voltage is 4 ~ 7mV (standard: 5mV) after lapse of 10 ~ 15 minutes. (Below 15mV after lapse of 20 min.).



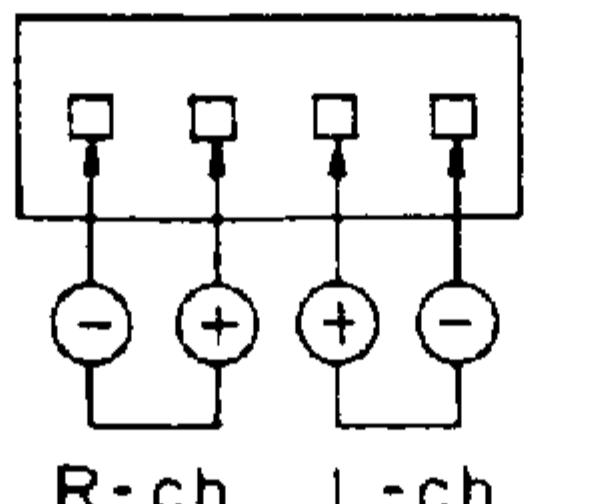
•ADJUSTMENT POINTS



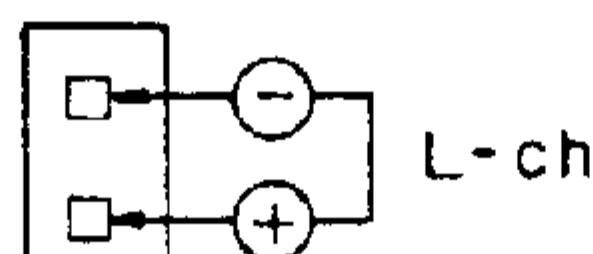
TP502 (C-amp)



TP451 (V-amp)



TP501 (C-amp)

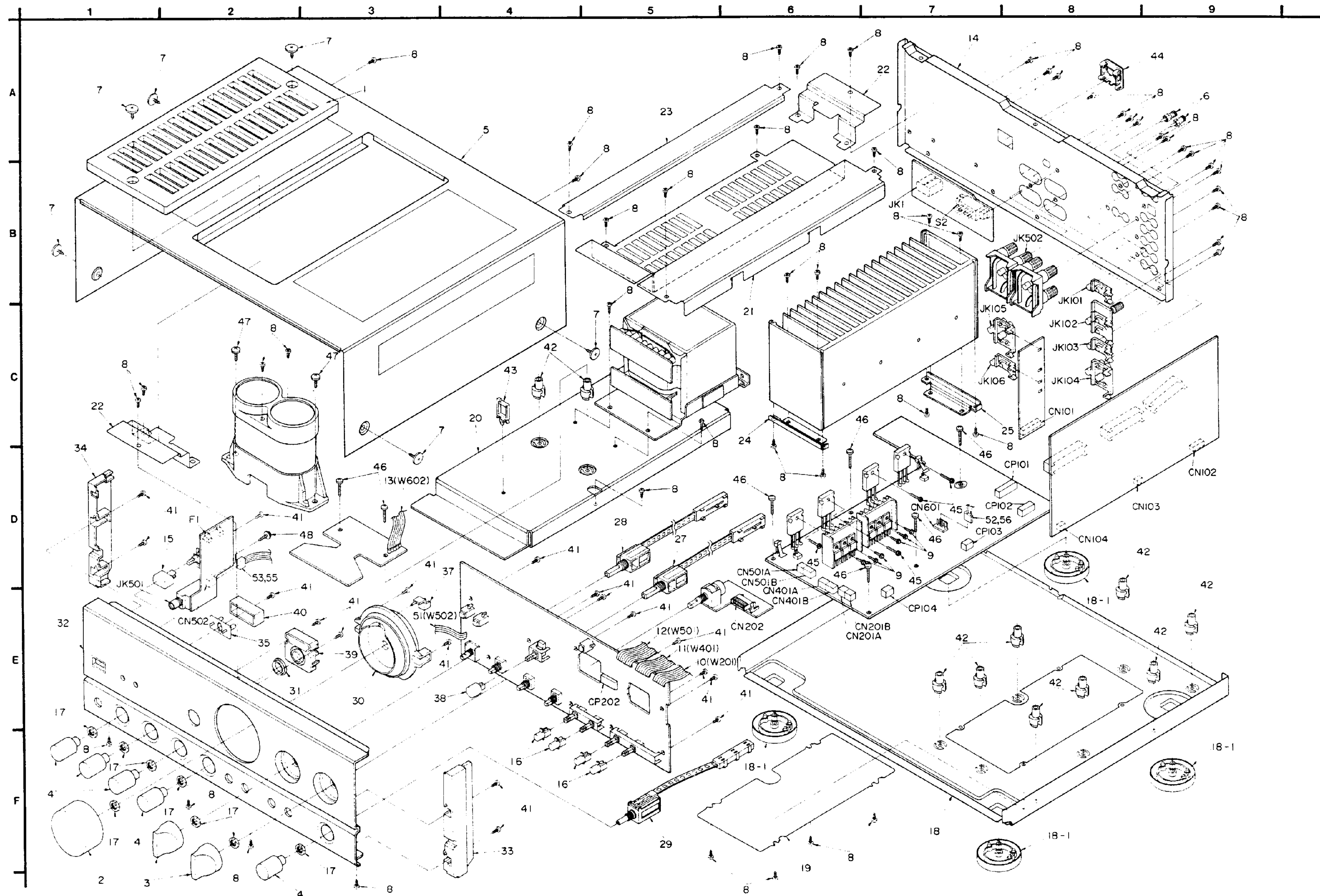


■ REPLACEMENT PARTS LIST

Notes : • Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS LIST	
1	RGD0397-K	UPPER PLATE	
2	RGW0122-K	KNOB, VOLUME	
3	RGW0123-K	KNOB, REC./INPUT	
4	RGW0124-K	KNOB, TONE/PHONO/S.P.SEL.	
5	RWD0172-K	CABINET	
6	SJPA11-I	SHORT PIN	
7	SNE2129-1	SCREW	
8	XTBS3+8JF21	SCREW	
9	XTW3+8T	SCREW	
10	RWJ3908170QQ	CABLE ASS'Y(8P)(W201)	
11	RWJ3910170QQ	CABLE ASS'Y(10P)(W401)	
12	RWJ3909170QQ	CABLE ASS'Y(9P)(W501)	
13	RWJ3907150QQ	CABLE ASS'Y(7P)(W602)	
14	RGR0124A-A	REAR PANEL (E)	
14	RGR0124A-C	REAR PANEL (EB)	
14	RGR0124A-B	REAR PANEL (EG)	
15	RGU0030	BUTTON, POWER	
16	RGU0609-K	BUTTON	
17	RHN90001	NUT	
18	RFKJUVX800EK	BOTTOM BOARD ASS'Y	
18-1	RKA0009-1	FOOT	
19	RKU0036	BOTTOM PLATE	
20	RMA0476	ANGLE	
21	RMA0477	ANGLE	
22	RMA0478	ANGLE	
23	RMA0484	ANGLE	
24	RMQ0239	ANGLE	
25	RMQ0240	ANGLE	
26	RMQ0255	ANGLE	
27	RSQ0019	REMOTE SWITCH(INPUT)	
28	RSQ0020	REMOTE SWITCH(REC.)	
29	RSQ0021	REMOTE SWITCH(PHONO)	
30	RGD0393-K	VOLUME ORNAMENT	
31	RGD0394-A	RING	
32	RFKGUVX700EK	FRONT PANEL ASS'Y	
33	RGD0398-K	SIDE ORNAMENT(R)	
34	RGD0399-K	SIDE ORNAMENT(L)	
35	RGL0134-C	ORNAMENT	
37	RGL0136-C	ORNAMENT	
38	RGU0611-K	BUTTON, DIRECT	
39	RMR0460-K	HOLDER	
40	RMR0461-K	HOLDER	
41	XTBS26+8J	SCREW	
42	SHE187-2	SPACER	

■ CABINET PARTS LOCATION



Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
101.102	UPC4570C	I.C. PHONO/EQ. AMP.	
1301	UPC4570C	I.C. TONE AMP.	
1401	AN7062N	I.C. BUFFER AMP.	
1501.502	M5219P	I.C. ACTIVE SERVO	
1503	AN7073	I.C. POWER AMP.	
1651	M5218AP	I.C. BUFFER AMP.	
		TRANSISTOR(S)	
101-104	2SK170GR	TRANSISTOR	
101.402	2SA1123RSTTA	TRANSISTOR	
1451.452	2SC2631RSTTA	TRANSISTOR	
1453.454	2SC3311A-Q	TRANSISTOR	
1455.456	2SA1309A-R	TRANSISTOR	
1457.458	2SC2631RSTTA	TRANSISTOR	
1459.460	2SA1123RSTTA	TRANSISTOR	
1461.462	2SC3944AQRS	TRANSISTOR	
1463.464	2SA1535AQRS	TRANSISTOR	
1465.466	2SD1761EF	TRANSISTOR	
1501.502	2SC3944AQRS	TRANSISTOR	
1503.504	2SA1535AQRS	TRANSISTOR	
1505.506	2SC3280R	TRANSISTOR	
1507.508	2SA1301R	TRANSISTOR	
1509.510	2SC1815BG	TRANSISTOR	
1511.512	2SA1123RSTTA	TRANSISTOR	
1513-516	2SC2631RSTTA	TRANSISTOR	
1517.518	2SA1123RSTTA	TRANSISTOR	
1519.520	2SB1036R	TRANSISTOR	
1521	2SA992EPTA	TRANSISTOR	
1551	2SC3944AQRS	TRANSISTOR	
1552	2SA1535AQRS	TRANSISTOR	
		DIODE(S)	
101.102	MA165	DIODE	
1401.402	MA167	DIODE	
1403.404	MA4036MTA	DIODE	
1405.406	MA165	DIODE	
1451	MA29WA	DIODE	
1453-456	MA165	DIODE	
1501-504	MA29WA	DIODE	
1505-508	MA4100MTA	DIODE	
1509-511	MA165	DIODE	
1512-514	MA167	DIODE	
1515	MA4160M	DIODE	
1602	ISR35200TB	DIODE	△
1603	LNO14304P	L.E.D.	
1604.605	LNO18304P	L.E.D.	
1606	MA4082MTA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D607-614	P300DLF	DIODE	△
D651.652	MA4180-M	DIODE	
D653	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR201	RRV16J02A	V.R. VOLUME CONTROL	
VR202	EVJ02QFA2G15	V.R. BALANCE	
VR301.302	EVJY1FA2C15	V.R. BASS/TREBLE CONT.	
VR451.452	EVNDXA00B52	V.R. ICF ADJ. (V-AMP.)	
VR501.502	EVNDXA00B52	V.R. ICQ ADJ. (C-AMP.)	
		TRANSISTOR(S)	
		THERMISTOR(S)	
TH451.452	ERTD2ZHL104T	THERMISTOR	
TH501.502	ERTD2ZHL104T	THERMISTOR	
		COIL(S)	
L1	SLQZ650M149	COIL	△
L101, 102	SLM1233	COIL	
L501, 502	SLQY07G-40	COIL	
L503, 504	SLQY18G-10	COIL	
L505-508	SLQY07G-40	COIL	
		TRANSFORMER(S)	
T1	RTP1QSE005-W	POWER TRANSFORMER	△
		FUSE(S)	
F1	XBA2C31TB0	FUSE, 250V T3. 15A	△
		SWITCH(ES)	
S1	ESB8249V	SW. POWER	△
S2	ESD26200A	SW. VOLTAGE SELECTOR	△
S101	RSS4F001-A	SW. PHONO SELECTOR	
S102	RSS6D001	SW. REC SELECTOR	
S103	RSS6B001	SW. INPUT SELECTOR	
S104	ESB68133	SW. MUTING/MODE	
S105	ESB68130	SW. LOUDNESS/TONE	
S302	RSP2D008-A	SW. POWER AMP DIRECT	
S501	RSR4B004-A	SW. SPEAKER SELECTOR	
		CONNECTOR(S)	
CN101	RJU057W012	SOCKET(12P)	
CN102	RJU057W009	SOCKET(9P)	
CN103.104	RJU057W004	SOCKET(4P)	
CN202	RJU003K010M1	SOCKET(10P)	
CN502	SJT3321	CONNECTOR(3P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN601	RJP1A3404	CONNECTOR(4P)	
CN201A	RJS1A1704	SOCKET(4P)	
CN401A	RJS1A1705	CONNECTOR(5P)	
CN501A	RJS1A1704	SOCKET(4P)	
CN201B	RJS1A1704	SOCKET(4P)	
CN401B	RJS1A1705	CONNECTOR(5P)	
CN501B	RJS1A1705	CONNECTOR(5P)	
CP101	RJT057W012	CONNECTOR(12P)	
CP102	RJT057W009	CONNECTOR(9P)	
CP103, 104	RJT057W004	CONNECTOR(4P)	
CP202	RJT003K010M1	CONNECTOR(10P)	
		JACK(S)	
JK1	SJS9231-1B	AC INLET	△
JK101	SJF3068N	PHONO JACK	
JK102	SJF3067N	TUNER/CD JACK	

Ref. No.	Part No.	Part Name & Description	Remarks
JK103	SJF3068N	AUX JACK	
JK104	SJF3069N	TAPE1 JACK	
JK105	SJF3069N	TAPE2 JACK	
JK106	SJF3068N	POWER AMP DIRECT JACK	
JK501	QJA0455ZC-A	HEADPHONES JACK	
JK502	RJH4801-1	SPEAKER TERMINAL	
FC1, 2	EYF52BC	FUSE HOLDER	
		RELAY(S)	
RL501, 502	SSY134	RELAY	
RL503	RSY0009-0	RELAY	

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(Ω) 1M=1,000k(Ω)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R301, 302	ERDAS3G561	1/4W 560	R501, 502	ERDFS2VJ681T	1/4W 680	R523, 524	ERDFS2VJ332T	1/4W 3.3K
R303, 304	ERDAS2TJ23T	1/4W 82K	R503, 504	ERDFS2VJ121T	1/4W 120	R525, 526	ERDFS2VJ102T	1/4W 1K
R305, 306	ERDAS2TJ224T	1/4W 220K	R505, 506	ERDFS2VJ681T	1/4W 680	R527, 528	ERDFS2VJ332T	1/4W 3.3K
R101-104	ERDAS2TJ102	1/4W 1K	R507, 508	ERDFS2VJ121T	1/4W 120	R529, 530	ERDAS2TJ104	1/4W 100K
R105, 106	ERDAS2TJ473	1/4W 47K	R509-512	ERF2EXKR10	2W 0.1	R531, 532	ERDAS2TJ331T	1/4W 330
R107, 108	ERDAS2TJ221	1/4W 220	R513-516	ERDFS2VJ100T	1/4W 10	R533-536	ERDFS2VJ2R2T	1/4W 2.2
R109, 110	ERDAS2TJ220T	1/4W 22	R517, 518	ERDFS2VJ1R0T	1/4W 1	R537-540	ERF2EXKR22	2W 0.22
R111, 112	ERDAS2TJ100	1/4W 10	R519, 520	ERDFS2VJ100T	1/4W 10	R541-544	ERDFS2VJ561T	1/4W 560
R113-118	ERDAS3G332T	1/4W 3.3K	R521, 522	ERDAS3G182	1/4W 1.8K	R545, 546	ERDAS2TJ153	1/4W 15K
R119, 120	ERDAS2TJ101	1/4W 100	R523, 524	ERDFS2VJ332T	1/4W 3.3K	R547, 548	ERDFS2VJ271T	1/4W 270
R121-124	ERDAS3G121	1/4W 120	R525, 526	ERDFS2VJ102T	1/4W 1K	R549, 550	ERDFS2VJ472T	1/4W 4.7K
R125, 126	EROS2TKF5231	1/4W 5.23K	R527, 528	ERDAS2TJ103T	1/4W 10K	R551	ERDAS2TJ473	1/4W 47K
R127, 128	EROS2TKG6802	1/4W 68K	R529, 530	ERDAS2TJ104	1/4W 100K	R552	ERDAS2TJ563	1/4W 56K
R129, 130	ERDAS2TJ334	1/4W 330K	R531, 532	ERDAS2TJ331T	1/4W 330	R553	ERDAS2TJ153	1/4W 15K
R131, 132	ERDAS3G561	1/4W 560	R533-536	ERDFS2VJ2R2T	1/4W 2.2	R554	ERDAS2TJ103</td	

■ PACKING

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R563, 564	ERG1SJ151E	1W 150	C313, 314	ECQV1H823JZ	50V 0.082U
R571-574	ERDFS2VJ681T	1/4W 680	C315, 316	ECQB1H153JF3	50V 0.015U
R575, 576	ERDS2TJ103	1/4W 10K	C317, 318	ECQB1H183JF3	50V 0.018U
R577, 578	ERG1SJ181E	1W 180	C319, 320	ECQB1H182JF3	50V 1800P
R579, 580	ERDFS2VJ332T	1/4W 3.3K	C321, 322	ECQB1H822JF3	50V 8200P
R581, 582	ERDS1FVJ561T	1/2W 560 △	C401, 402	ECA1HPMS3R3B	50V 3.3U
R583	ERG1SJ102E	1W 1K	C403, 404	ECBT1H271KB5	50V 270P
R584	ERG1SJ152E	1W 1.5K	C405, 406	ECA1CPKS220B	16V 22U
R585-592	ERG1SJ100E	1W 10	C407, 408	ECBT1H820KB5	50V 82P
R601	ERDS1FVJ180T	1/2W 18 △	C409, 410	ECBT1H100J5	50V 10P
R602	ERDS2TJ331	1/4W 330	C411, 412	ECBA1H681KB5	50V 680P
R603, 604	ERDFS2VJ6R8T	1/4W 6.8	C413, 414	ECCV2I070D	500V 7P
R605, 606	ERDFS2VJ4R7T	1/4W 4.7	C415-418	ECBT1H102KB5	50V 1000P
R607, 608	ERG1SJ331E	1W 330	C427, 428	ECQB1H223JF3	50V 0.022U
R609, 610	ERDS2TJ681	1/4W 680	C429	ECA1JAP220B	63V 22U
R611, 612	ERDS2TJ223	1/4W 22K	C451, 452	ECKR1H333ZF5	50V 0.033U
R613	ERDS2TJ102	1/4W 1K	C453-456	ECCV2H680K	500V 68P
R614	ERDS2TJ153	1/4W 15K	C457-460	ECEA1HKA010B	50V 1U
R615	ERDS2TJ823T	1/4W 82K	C501-504	ECAOJPKS101B	6.3V 100U
R616	ERDS2TJ153	1/4W 15K	C505-508	ECQM1H224JZ	50V 0.22U
R617, 618	ERDS2TJ102	1/4W 1K	C509, 510	ECQB1H222JF3	50V 2200P
CAPACITORS			C513-516	ECKR1H473ZF5	50V 0.047U
C1	ECKWNS103ZVS	500V 0.01U △	C517, 518	ECBT1H821KB5	50V 820P
C101, 102	ECBT1H220J5	50V 22P	C519-528	ECKR1H103ZF5	50V 0.01U
C107, 108	ECQB1H102KF3	50V 1000P	C529	ECEAOJKA331Q	6.3V 330U
C109, 110	ECQB1H222JF3	50V 2200P	C530	ECFR1E223KR	25V 0.022U
C111, 112	ECBT1H270JU5	50V 27P	C531	ECEAOJKA470B	6.3V 47U
C113, 114	ECA0JAP332E	6.3V 3300P	C532, 533	ECEA1EKA4R7B	25V 4.7U
C115, 116	ECQB1H392JF3	50V 3900P	C541-544	ECCR1H181K5	50V 180P
C117, 118	ECQB1H103JF3	50V 0.01U	C545-548	ECQB1H153KF3	50V 0.015U
C119, 120	ECQV1H473JZ3	50V 0.047U	C553, 554	ECKT1H102KB	50V 1000P
C121, 122	ECA1HPXS010B	50V 1U	C555-558	ECBA1H681KB5	50V 680P
C123, 124	ECQB1H472JF3	50V 4700P	C601, 602	ECD1JM103T	63V 10000U △
C125, 126	ECQV1H564JZ3	50V 0.56U	C603, 604	ECA1JPXS221E	63V 220U
C127, 128	ECQB1H223JF3	50V 0.022U	C605, 606	ECCR1H103JZ3	50V 0.01U
C129, 130	ECA1HPXS4R7B	50V 4.7U	C607	ECCQ2104KF3	100V 0.1U
C131-134	ECQB1H102KF3	50V 1000P	C609	ECA1CM221B	16V 22U
C135, 136	ECBT1H560J5	50V 56P	C611-614	ECA1JAP220B	63V 22U
C181-186	ECCR1H101K5	50V 100P	C651-653	ECA1EPKS100B	25V 1U
C187, 188	ECCR1H181K5	50V 180P	C654, 655	ECA1HPMS3R3B	50V 3.3U
C189, 190	ECCR1H101K5	50V 100P	C656	ECBT1H821KB5	50V 820P
C191, 192	ECBT1H181KB5	50V 180P	C657, 658	ECCR1H103ZF5	50V 0.01U
C193-196	ECCR1H101K5	50V 100P			
C213, 214	ECQV1H563JZ3	50V 0.056U			
C301, 302	ECA1HPXS3R3B	50V 3.3U			
C303, 304	ECBT1H101KB5	50V 100P			
C305, 306	ECBT1H820KB5	50V 82P			
C307, 308	ECA1HPXS4R7B	50V 4.7U			
C309, 310	ECBT1H390J5	50V 39P			
C311, 312	ECA1CPKS100B	16V 10U			

