ORDER NO. AD9007212C2

Service Manual

Amplifier

SU-V900

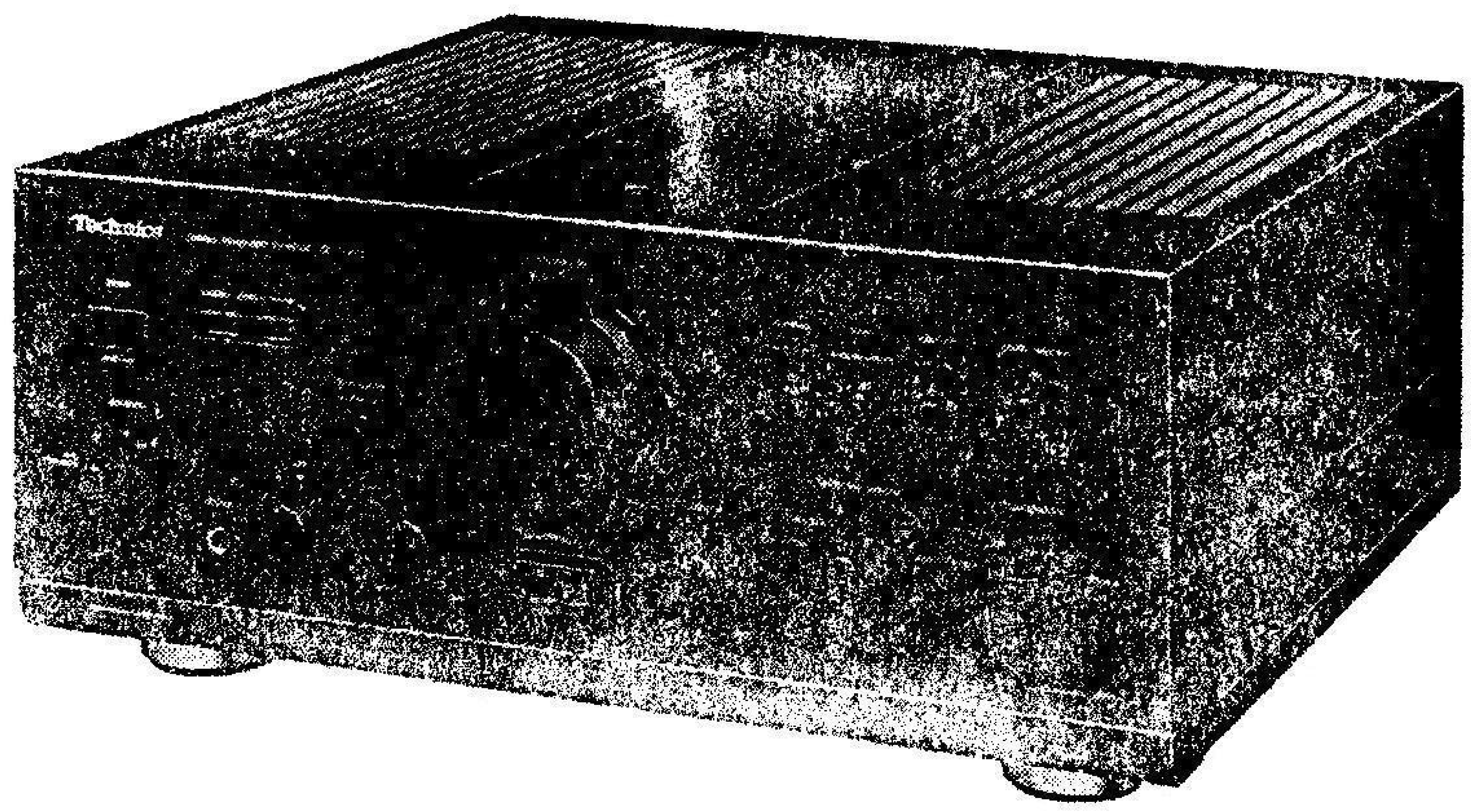
Stereo Integrated Amplifier

Color

(K)... Black Type

Area

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



SPECIFICATIONS (DIN 45 500)

■ MAIN AMP. SECTION

20 Hz~20 kHz continuous power output
- both channels driven — 2 × 100 W (8 Ω), 2×140 W (4 Ω)

1 kHz continuous power output
- both channels driven (THD: 1 %) — 2 × 110 W (8 Ω), 2 × 160 W (4 Ω)

63 Hz~12.5 kHz continuous power output
- both channels driven (0.7 %) — 2 × 105 W (8 Ω), 2 × 145 W (4 Ω)

Total harmonic distortion (Power Amp Direct input)
- rated power at 20 Hz~20 kHz — 0.005 % (8 Ω), 0.007 % (4 Ω)
- half power at 20 Hz~20 kHz — 0.003 % (8 Ω)

Intermodulation distortion
- rated power at 50 Hz: 7 kHz=4:1, SMPTE, 8 Ω — 0.005 %

Residual hum and noise — 0.3 mV

Damping factor — 110 (8 Ω), 55 (4 Ω)

Headphones output level and impedance — 680 mV/330 Ω

Load impedance
- A or B, Bi-Wiring — 4 Ω~16 Ω
- A and B — 8 Ω~16 Ω

■ PRE AMP. SECTION

Input sensitivity and impedance
- PHONO MM — 2.5 mV/47 kΩ
- PHONO MC — 250 µV/220 Ω
- TUNER, CD, TAPE 1, TAPE 2, DAT — 150 mV/22 kΩ
- POWER AMP DIRECT — 1 V/18 kΩ

Phono maximum input voltage (1 kHz, RMS)
- MM — 170 mV
- MC — 16 mV

S/N

rated power (4 Ω)
- PHONO MM — 79 dB (IHF '66: 88 dB)
- PHONO MC — 69 dB (IHF '66: 72 dB, S=250 µV)
- TUNER, CD, TAPE 1, TAPE 2, DAT — 99 dB (IHF '66: 104 dB)
- POWER AMP DIRECT — 107 dB (IHF '66: 115 dB)

−26 dB power (4 Ω)
- PHONO MM — 77 dB
- PHONO MC — 67 dB
- TUNER, CD, TAPE 1, TAPE 2, DAT — 87 dB

50 mW power (4 Ω)
- PHONO MM — 75 dB
- PHONO MC — 67 dB
- TUNER, CD, TAPE 1, TAPE 2, DAT — 79 dB

Technics

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

Frequency response
PHONO MM RIAA standard curve ±0.2 dB (20 Hz~20 kHz)
TUNER, CD, TAPE 1, TAPE 2, DAT 0.8 Hz~150 kHz (+0, −3 dB) +0 dB, −0.2 dB (20 Hz~20 kHz)
POWER AMP DIRECT 0.8 Hz~150 kHz (+0, −3 dB) +0 dB, −0.2 dB (20 Hz~20 kHz)
Tone controls
BASS 50 Hz, +10 dB, −10 dB
TREBLE 20 kHz, +10 dB, −10 dB
Loudness control (volume at −30 dB) 50 Hz, +9 dB
Output voltage
TAPE 1, TAPE 2, DAT REC OUT 150 mV
Channel balance, CD 250 Hz~6,300 Hz ±1 dB
Channel separation, CD 1 kHz 50 dB

■ GENERAL

Power consumption 920 W
Power supply
For Continental Europe and F.R. Germany AC 50 Hz/60 Hz, 220 V
For Great Britain AC 50 Hz/60 Hz, 240 V
Dimensions (W × H × D) 430 × 183 × 436 mm (16-15/16" × 7-7/32" × 17-5/32")
Weight 21 kg (46.2 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.

■ CONTENTS

■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5W resistor connect both ends of power supply capacitors (C551A, C552A, 12000µF) 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 50Hz in NO SIGNAL mode should be shown below with respect to supply voltage 220V/240V.

Power supply voltage	AC 220V	AC 240V
Consumed current 50Hz	110~430mA	100~390mA

■ 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. (The current drive indicator of the operation indicator is not illuminated.)
- Sound stops during a performance.

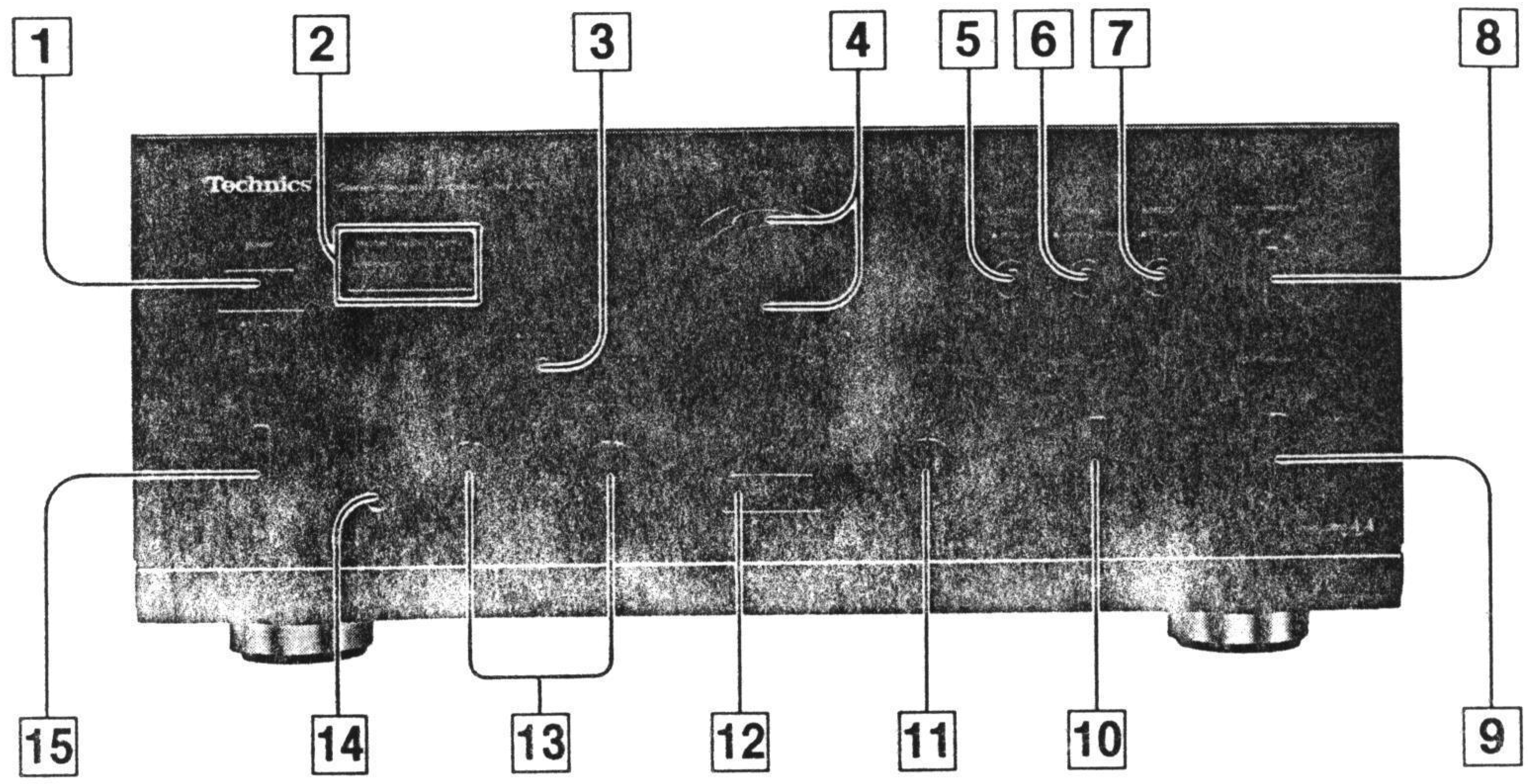
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", if speaker systems with an impedance less than the indicated rated impedance of this unit are used, or if DC voltage appears in the output.
If this occurs, follow the procedure outlined below:
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

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

■ ACCESSORY

- AC power supply cord 1
  - SFDAC05E03 .... (E), (EG)
  - SJA193 .... (EB)

FRONT PANEL CONTROLS AND FUNCTIONS



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 Tone control switch (tone control)

This switch is used to turn the tone control circuit (bass, treble) on or off.

4 Volume control/indicator (volume)

There are two types of volume scale indications: one for when the power amplifier direct switch is OFF, and one for when it is ON (Indicator will illuminate.).

5 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.

6 Mode selector (mode)

This selector is used to select stereo or monaural operation.

7 Adaptor switch (adaptor)

This switch is used when enjoying music by changing the sound quality with the graphic equalizer, etc.

8 Phono cartridge selector (phono selector)

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

9 Input selector (input selector)

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

10 Recording output selector (recording selector)

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

11 Balance control (balance)

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

12 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 amp section of this unit. The mode selector, loudness switch, balance control and tone control circuit are bypassed.

13 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.

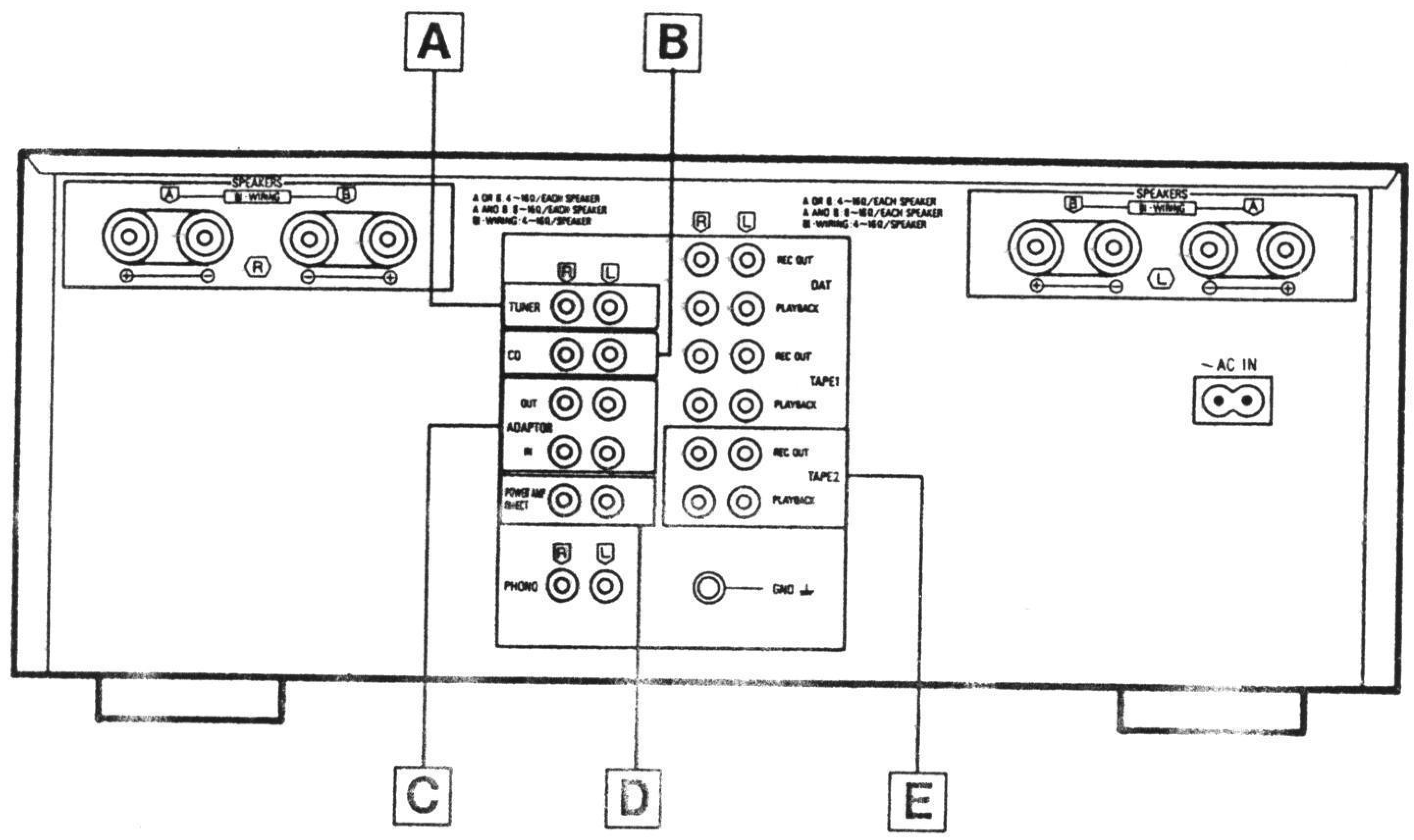
14 Headphones jack (phones)

15 Speaker selector (speakers)

This selector is used to turn the speaker systems on and off.

CONNECTIONS

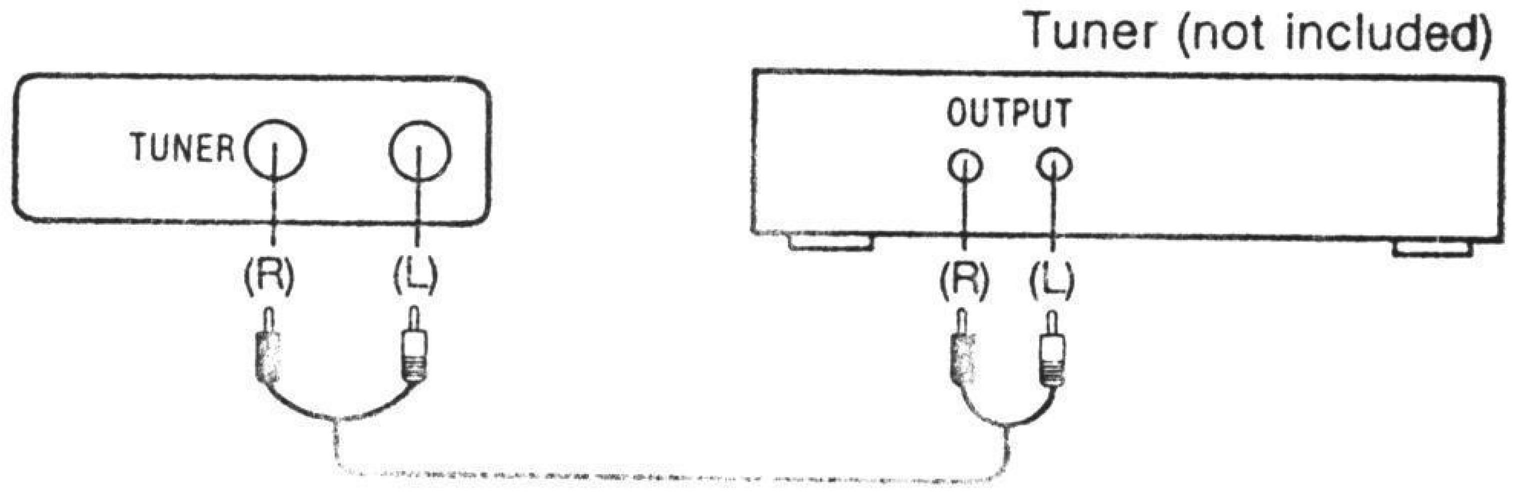
Make connections to each component in the system by using stereo connection cables (not included).



A "TUNER" terminals

Connect a tuner.

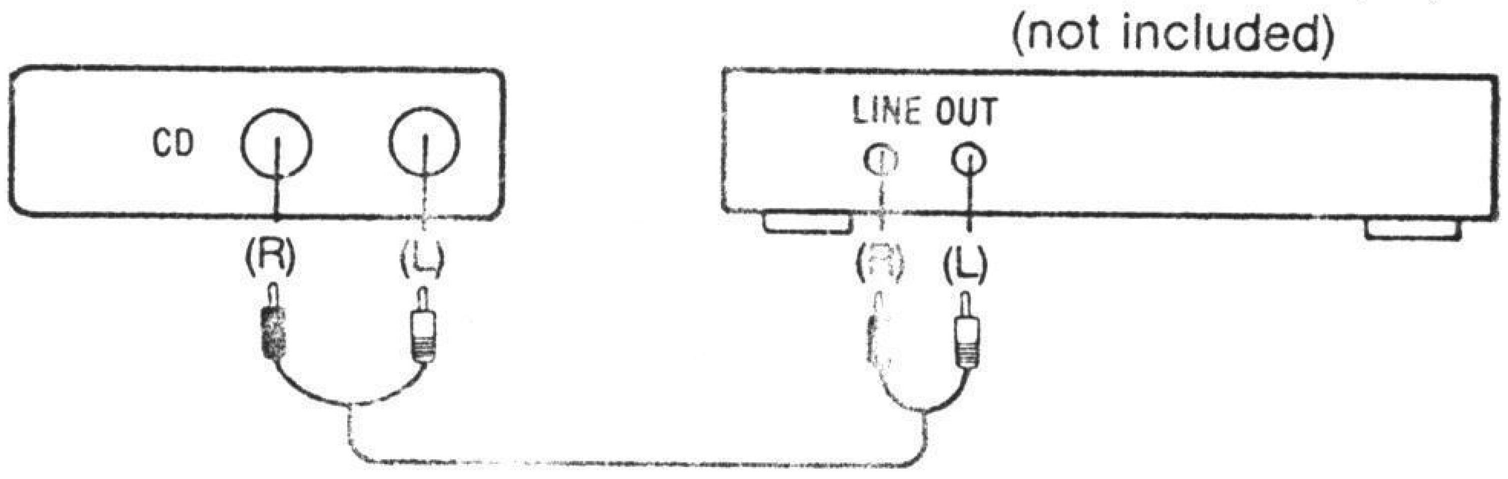
Tuner (not included)



B "CD" terminals

Connect a compact disc player.

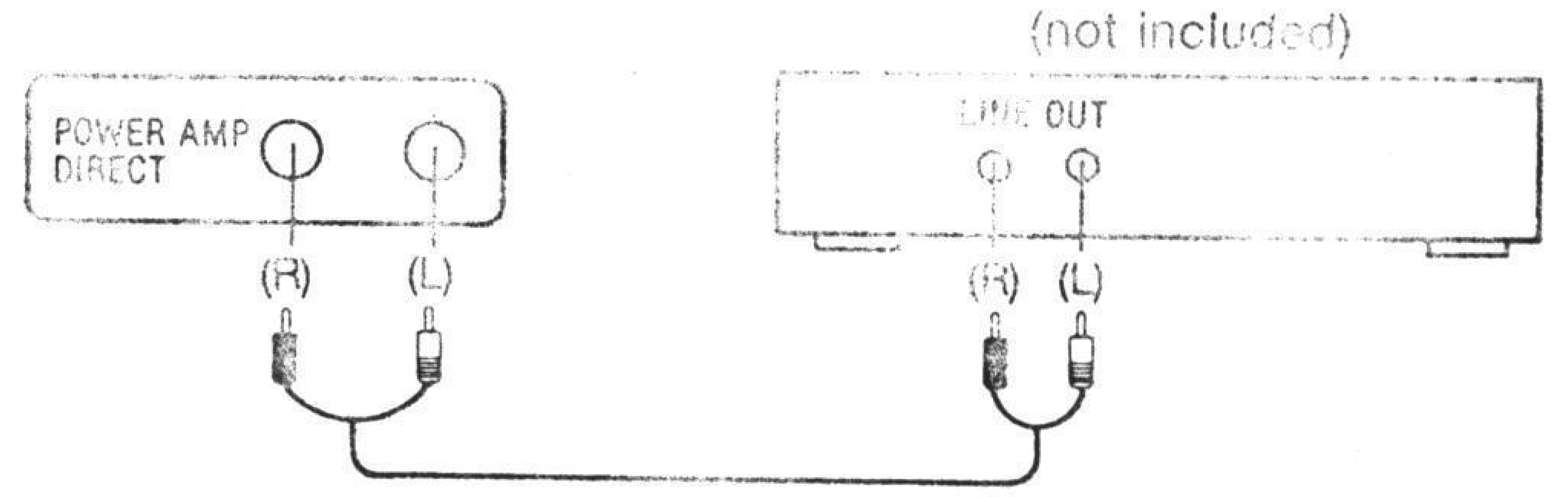
Compact disc player
(not included)



D "POWER AMP DIRECT" terminals

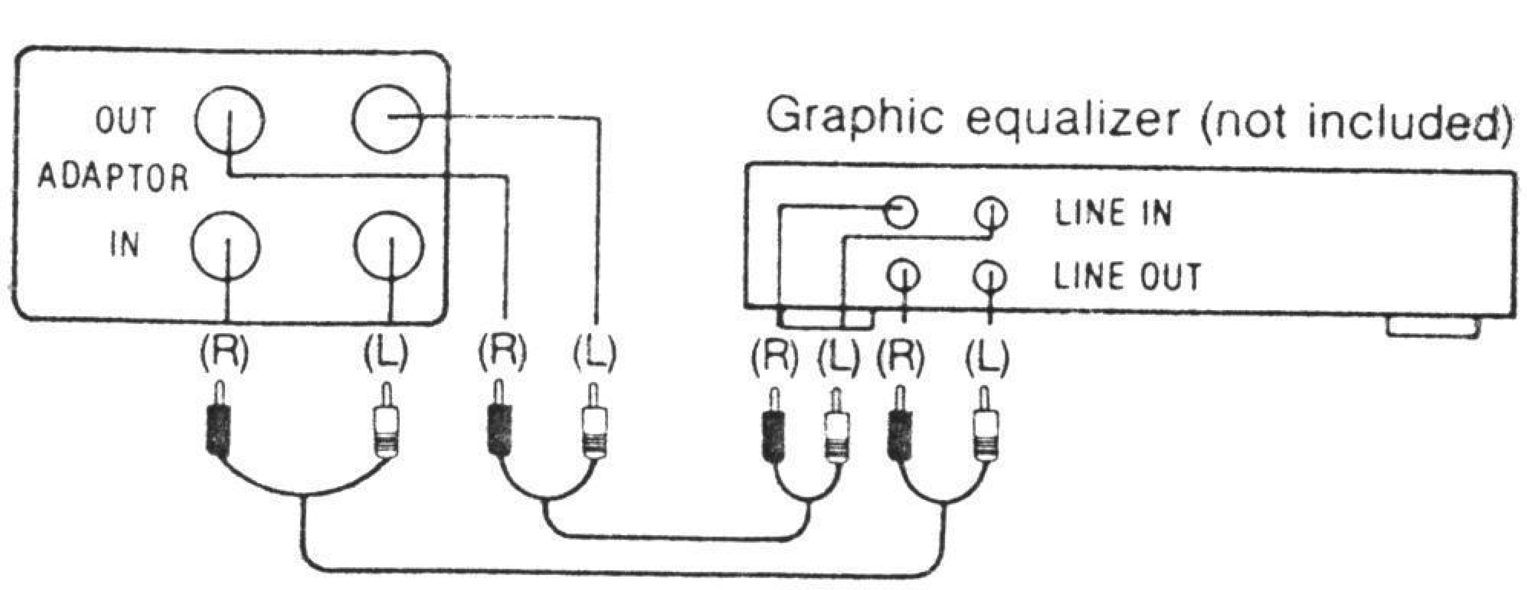
Connect a compact disc player.
A superior level of tone quality can be obtained, because the signal from these terminals are sent directly to the volume control and power amp section of this unit.
The sounds from a component connected to these terminals cannot be recorded.

Compact disc player
(not included)



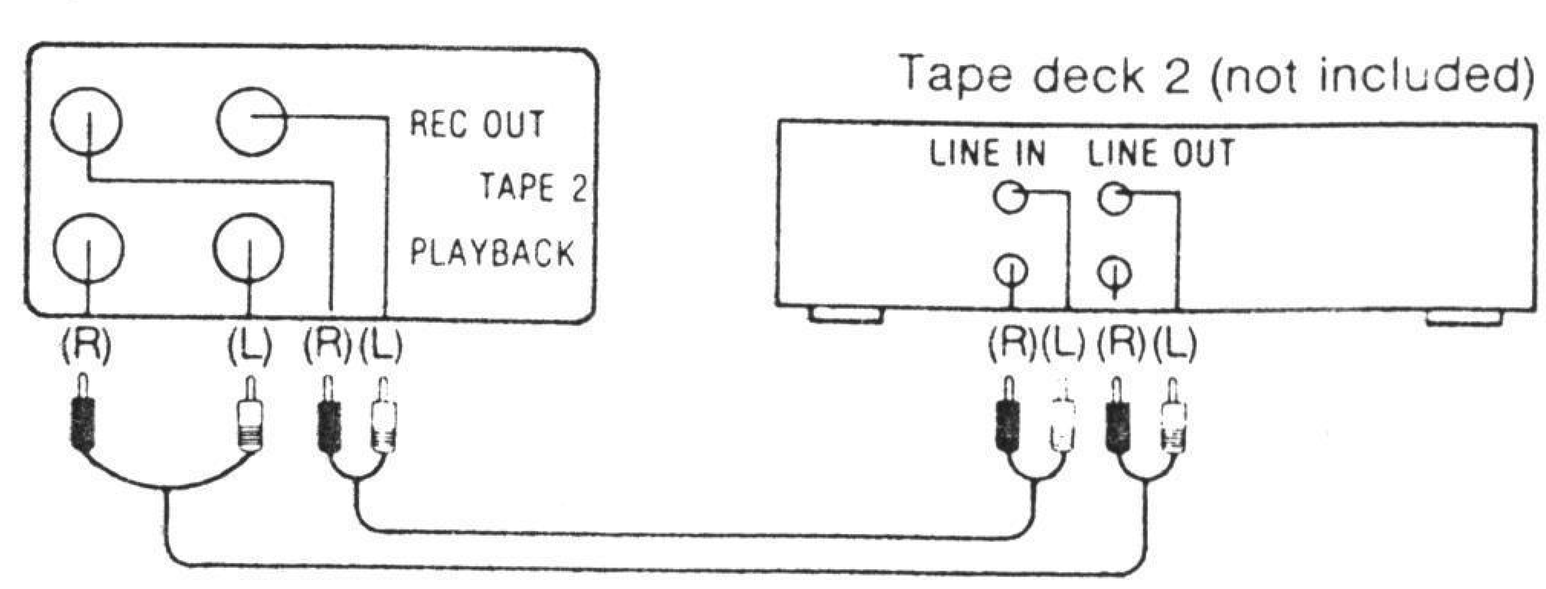
C "ADAPTOR" terminals

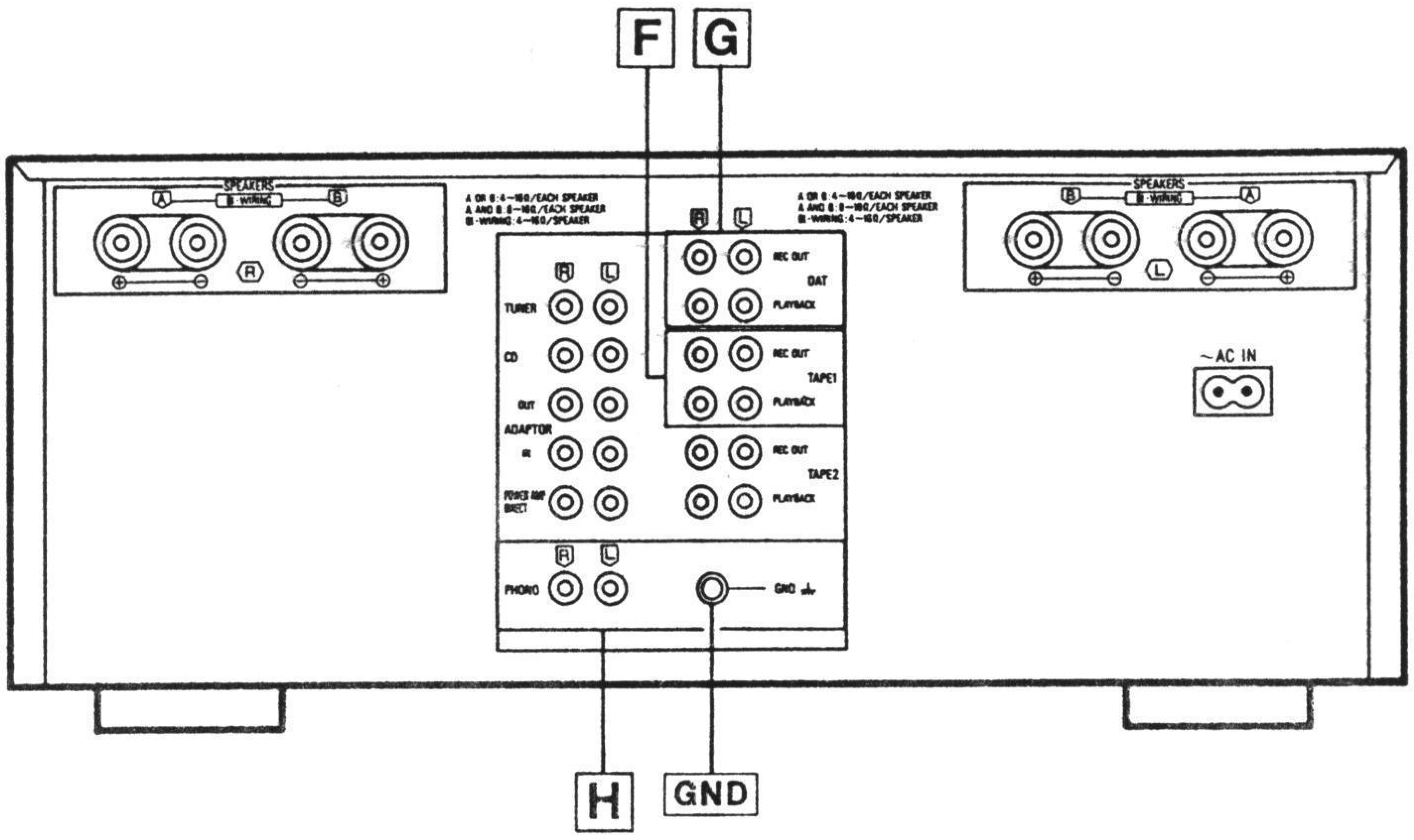
Connect a graphic equalizer.



E "TAPE 2" terminals

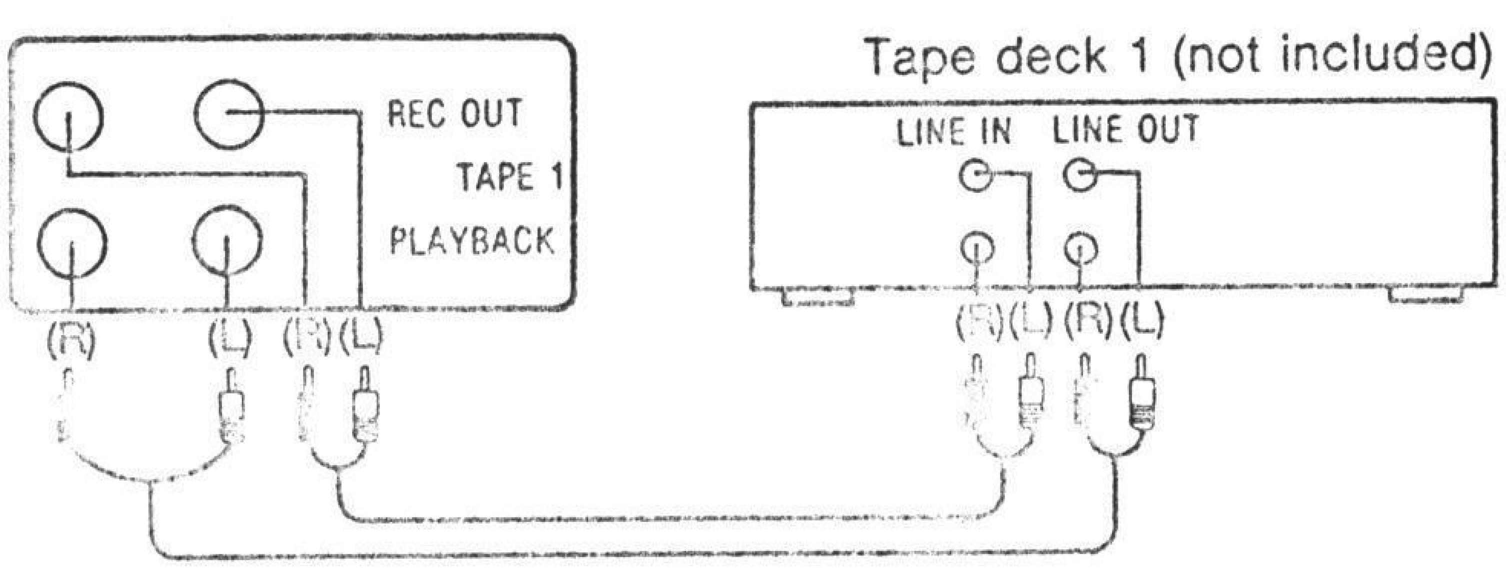
Connect a video cassette recorder (for audio only) or a second tape deck.





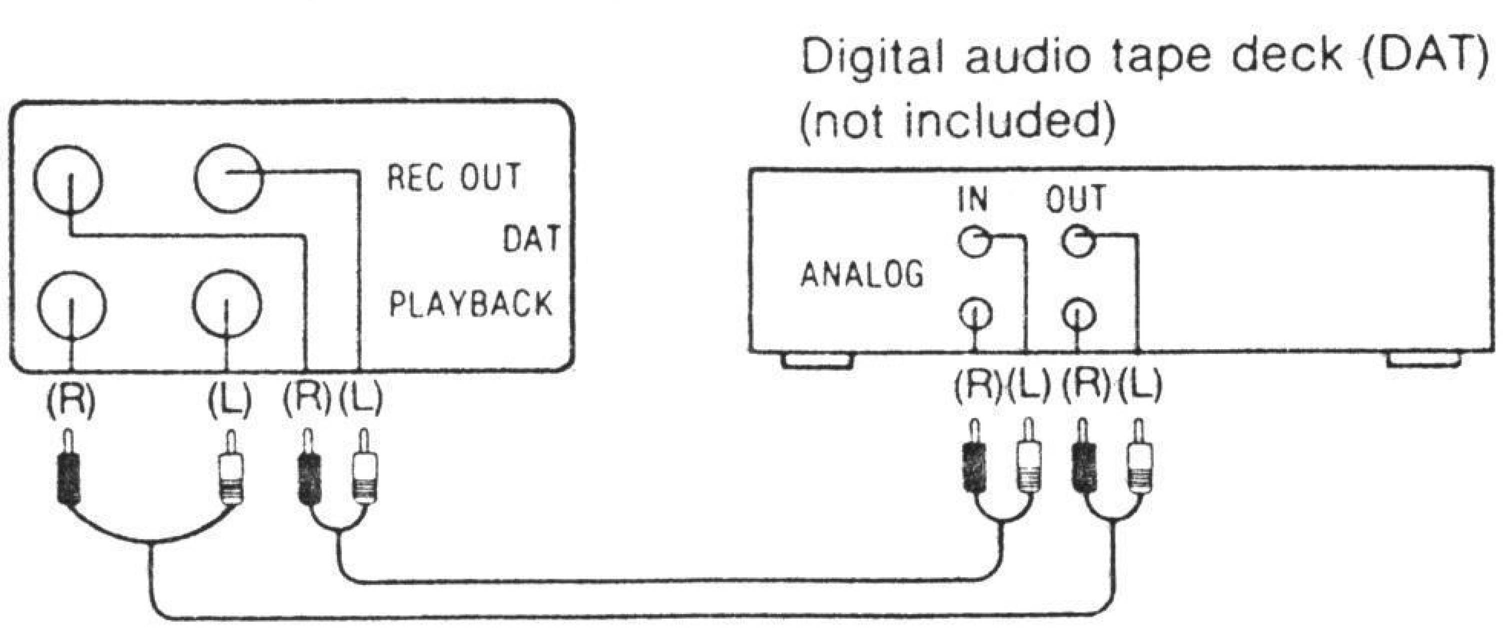
F "TAPE 1" terminals

Connect a first tape deck.



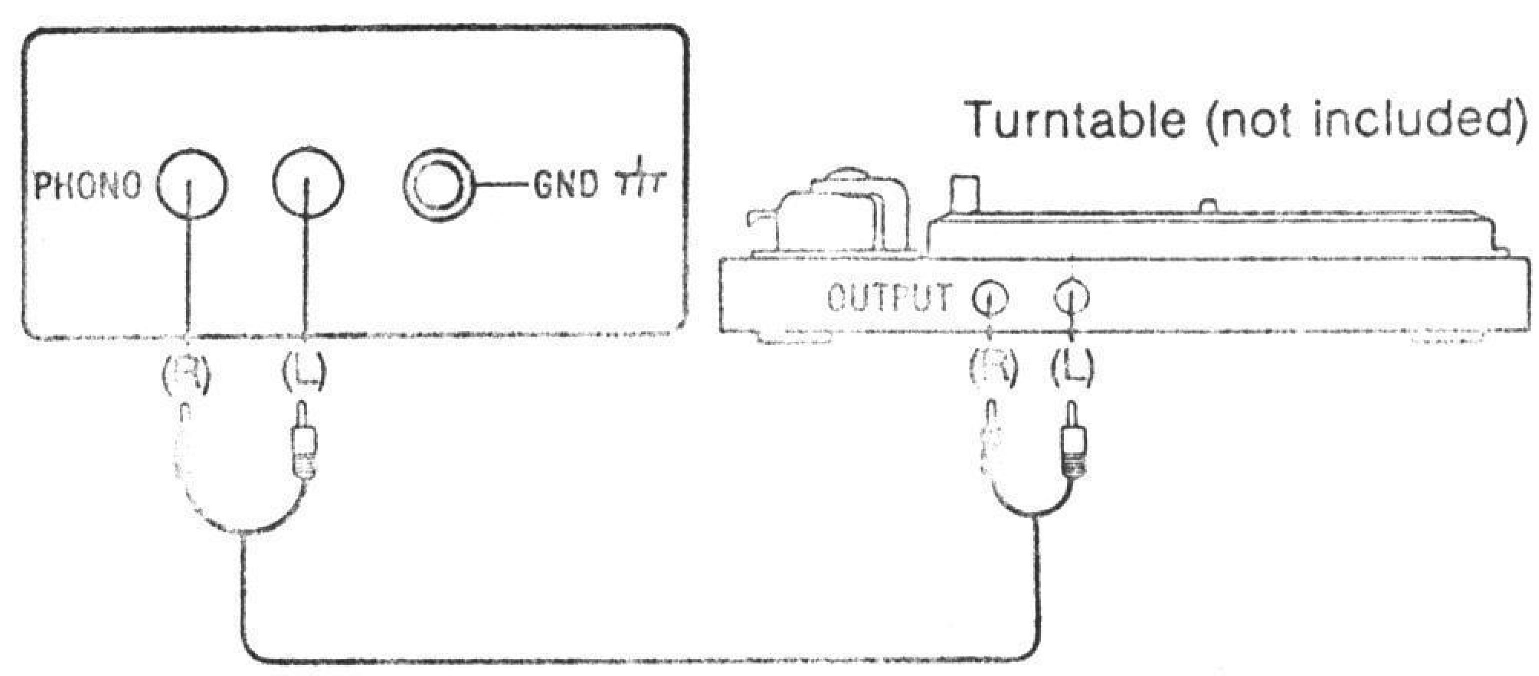
G "DAT" terminals

Connect a digital audio tape deck (DAT).



H "PHONO" terminals

Connect a turntable.



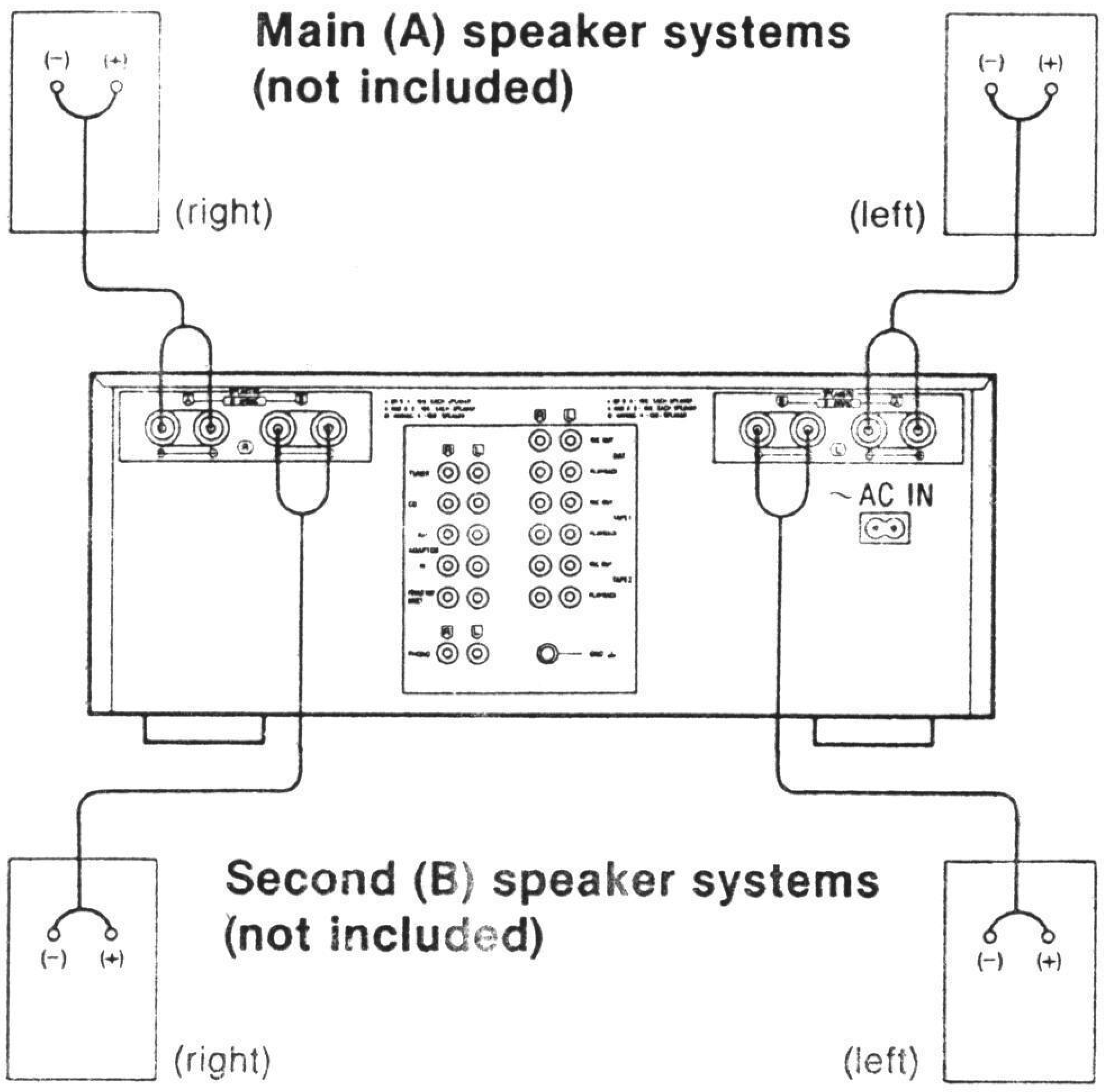
"GND" terminal

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

※ Phono input capacitance is about 270pF for (EG) area. (about 100pF for other areas.)

Connection to speaker systems

To connect main and/or second speaker systems



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

Load impedance

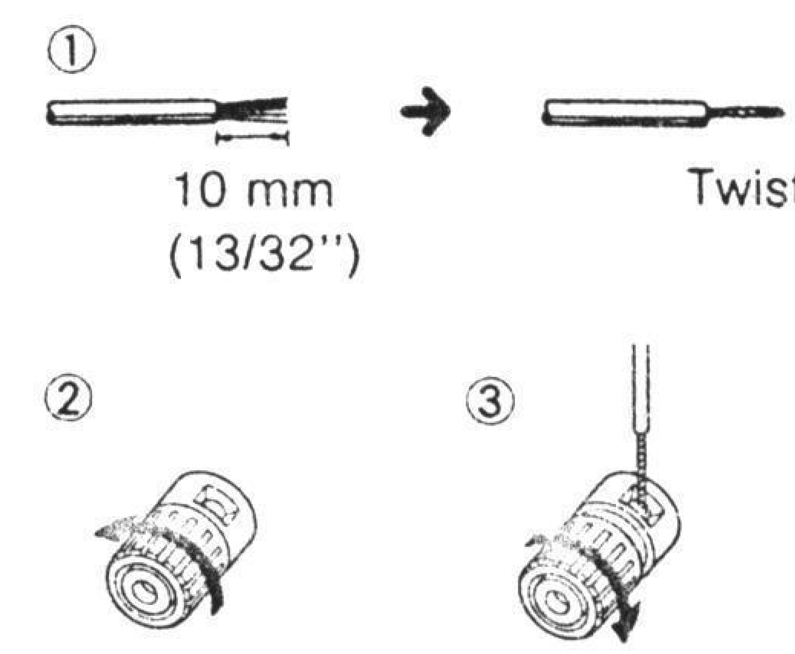
- When only the "A" or only the "B" terminals are used: 4-16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8-16 ohms
- When bi-wired speaker systems are used: 4-16 ohms

To connect cords to terminals

① Strip off the outer covering, and twist the center conductor.

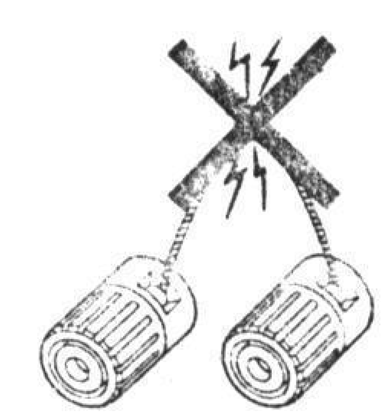
② Turn completely to the left.

③ Insert the wire and turn completely to the right. Pull the wire to assure a proper connection.

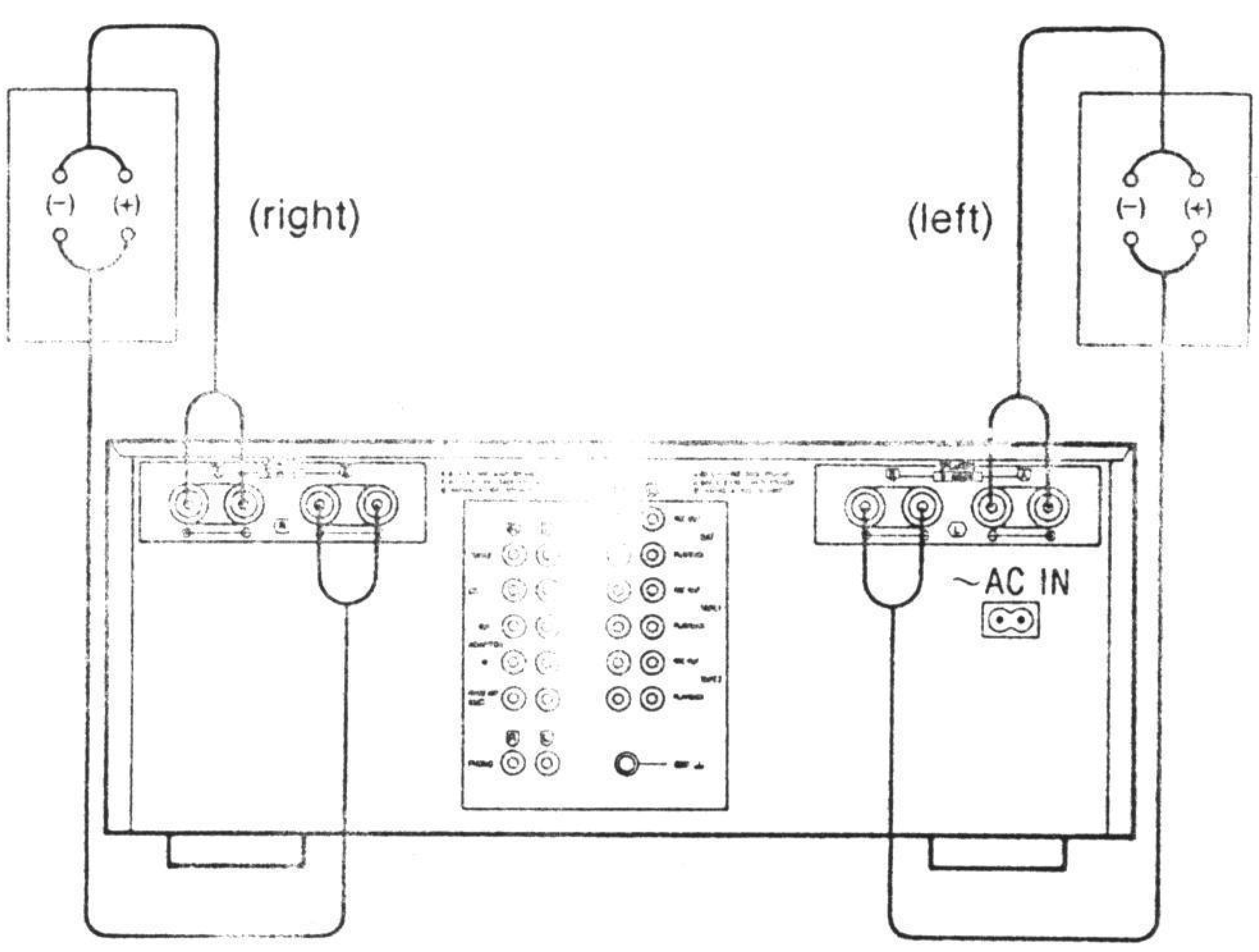


Note: Be sure to only connect positive (+) cords to positive (+) terminals, and negative (−) cords to negative (−) terminals.

Note:
To prevent damage to circuitry, never short-circuit the plus (+) and minus (−) speaker cords.



To connect bi-wired speaker systems



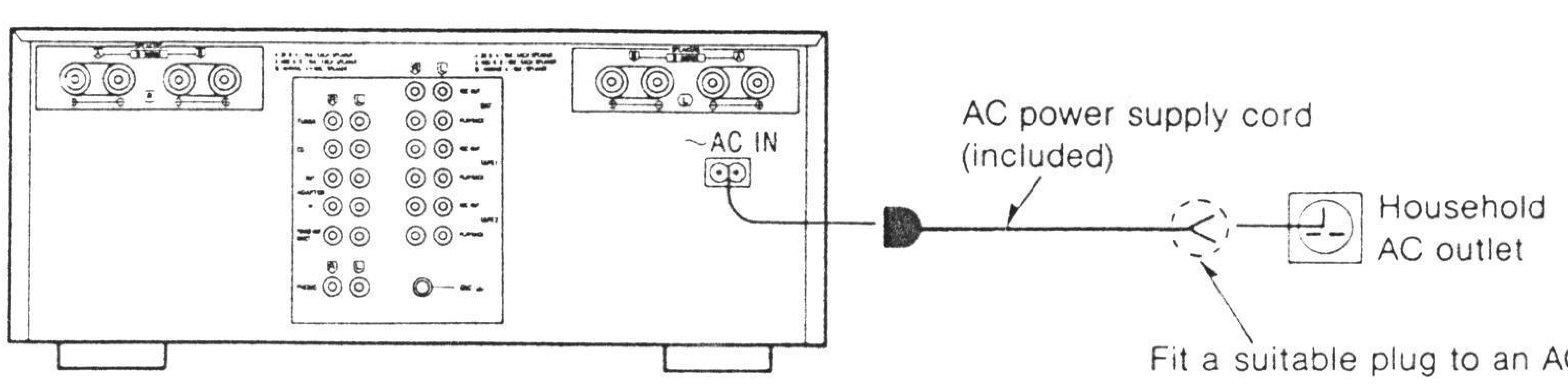
Note: Connect only bi-wired speaker systems in this way.

Bi-wiring

The treble range and the bass range of the speaker systems are connected to the speaker terminals of the amplifier by using two speaker connection wires 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 speaker system.)

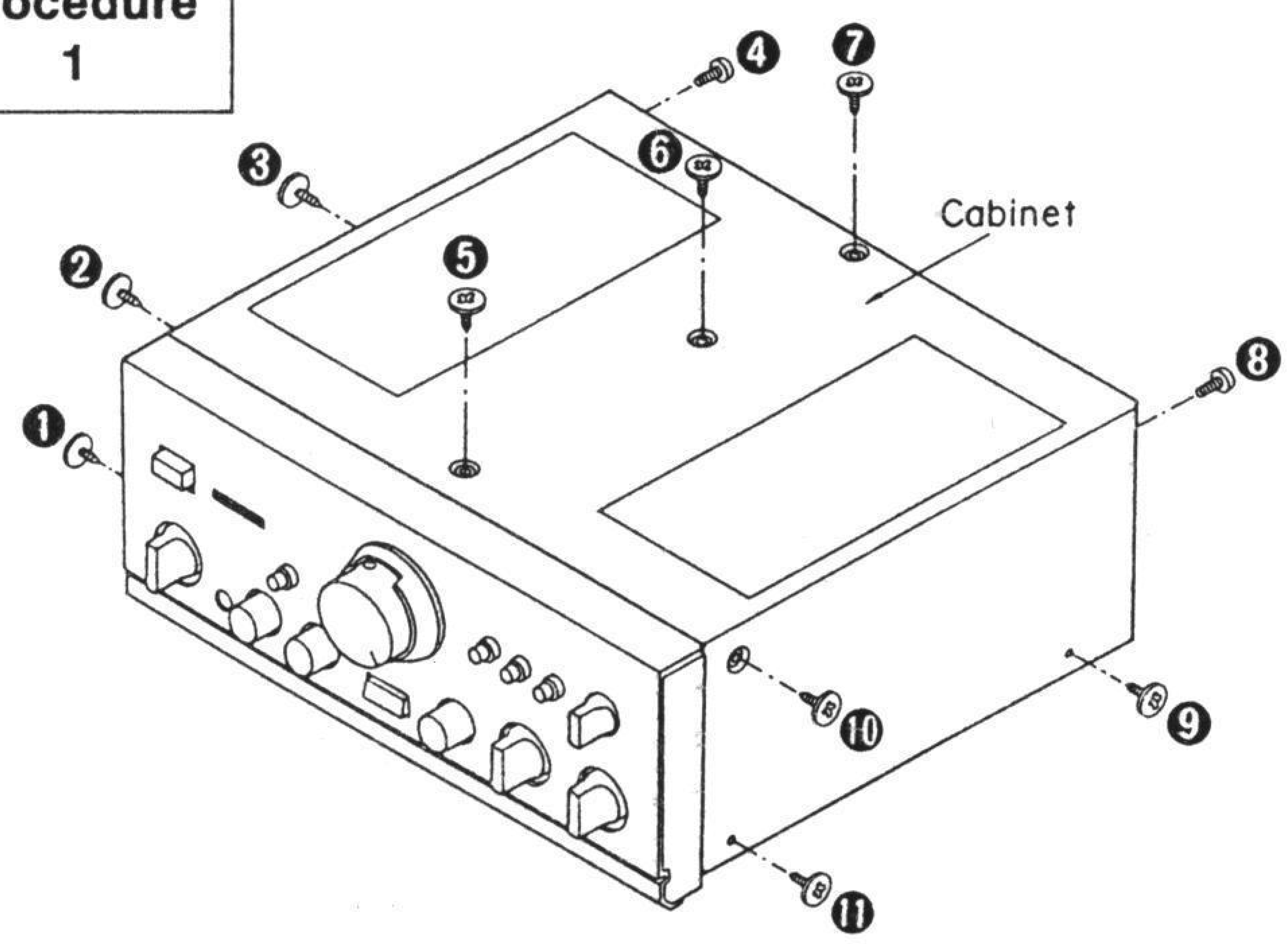
To connect the AC power supply cord (included)

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



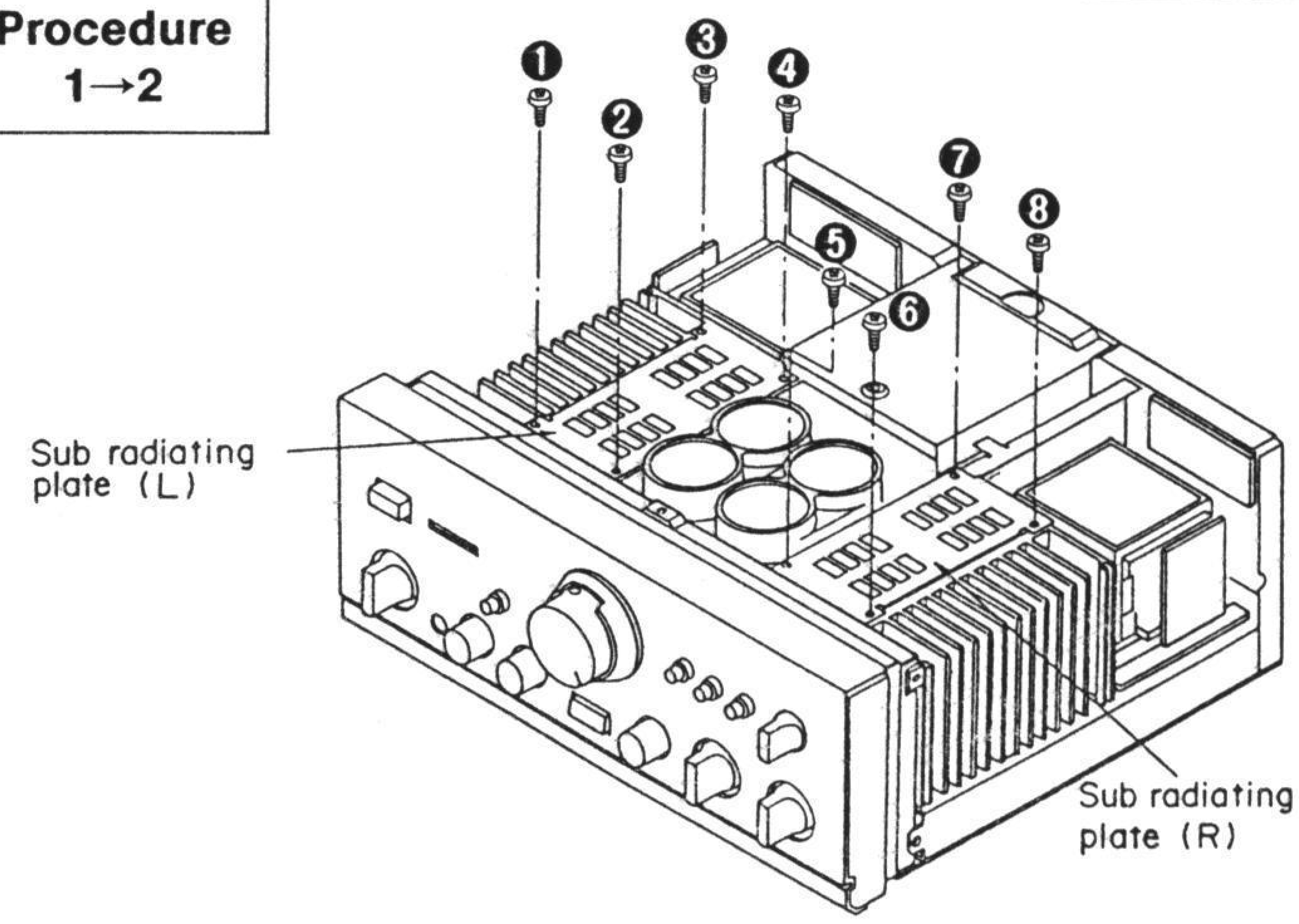
DISASSEMBLY INSTRUCTIONS

Ref. No. 1	Removal of the cabinet
Procedure 1	



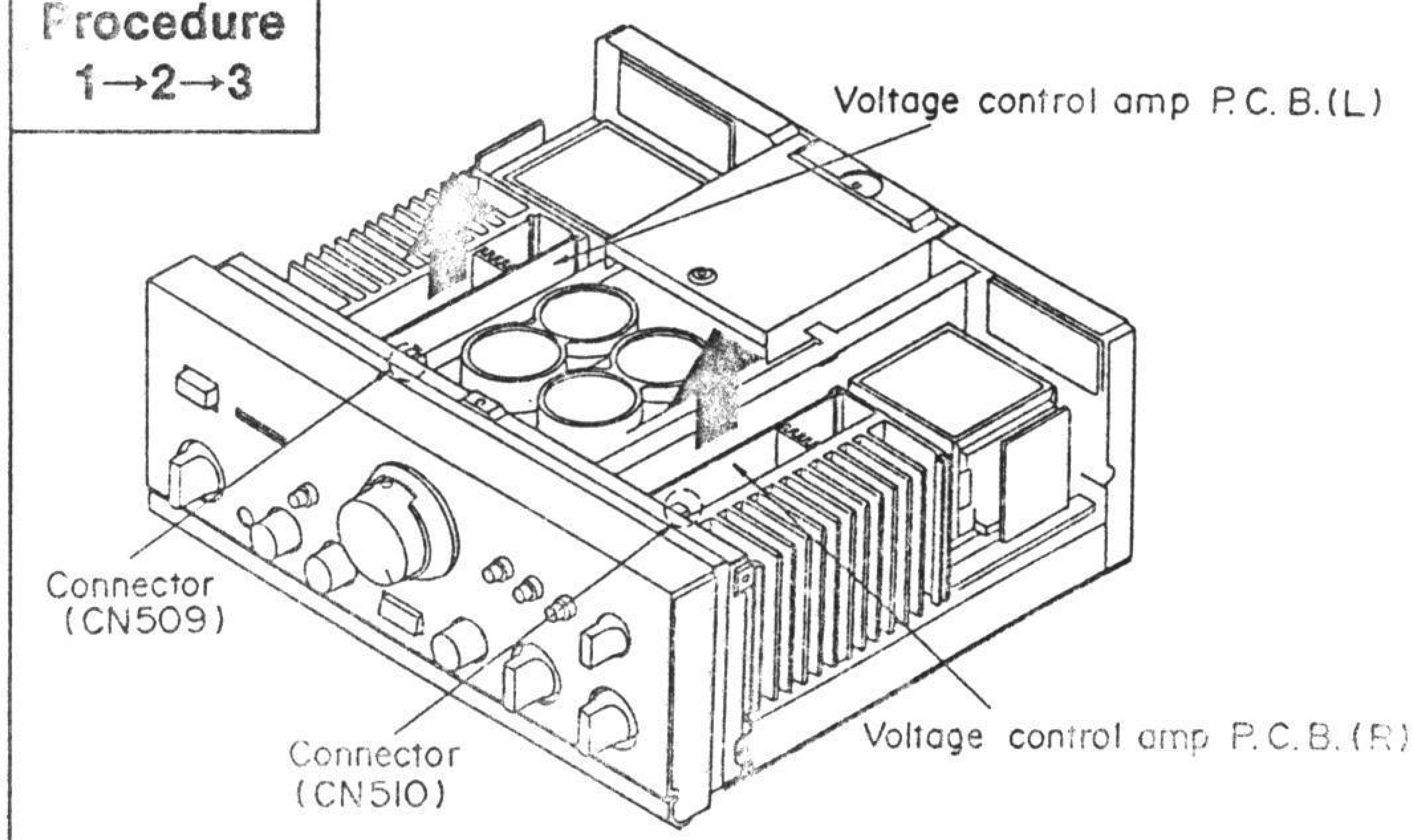
• Remove the 11 screws (❶~⓫).

Ref. No. 2	Removal of the sub radiating plate (L), (R)
Procedure 1→2	



• Remove the 8 screws (❶~❽).

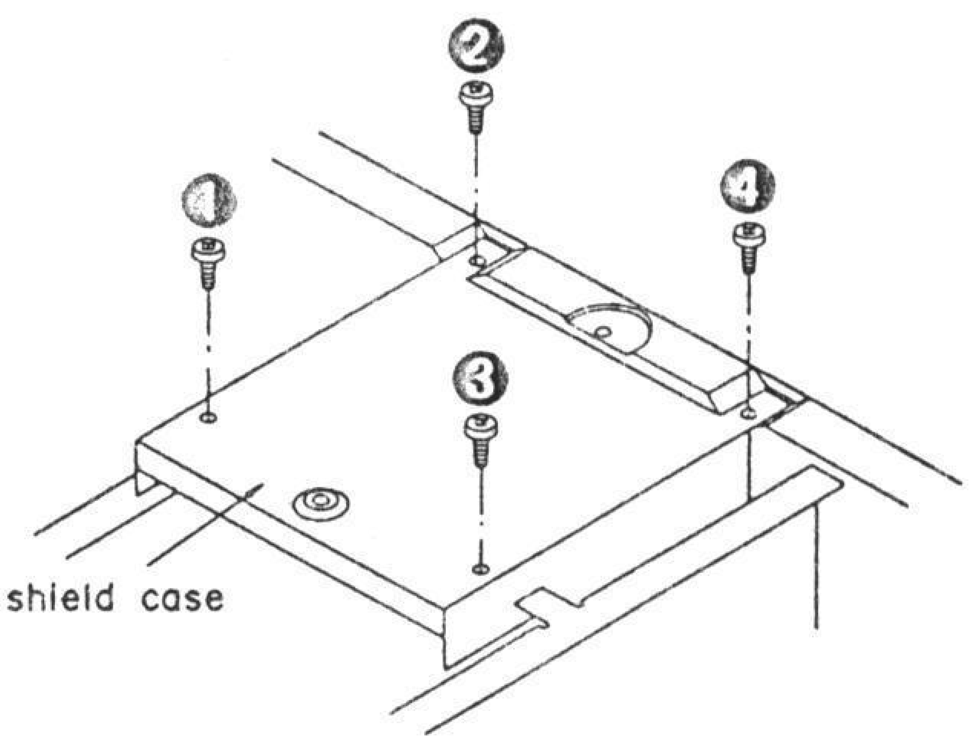
Ref. No. 3	Removal of the Voltage control amp P.C.B. (L), (R)
Procedure 1→2→3	



1. Remove the 2 connectors (CN509, CN510).
2. Pull out the P.C.B. (Lch, Rch) in the direction of the arrow.

Note: Take care the connectors, and remove the P.C.B.

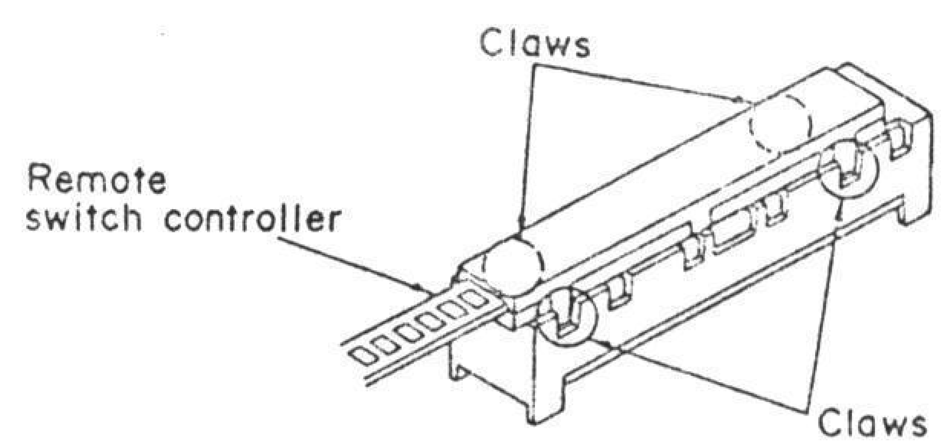
Ref. No. 4	Removal of the pre-shield case
Procedure 1→4	



1. Remove the 4 screws (❶~❹).
2. Lift the shield case and remove it.

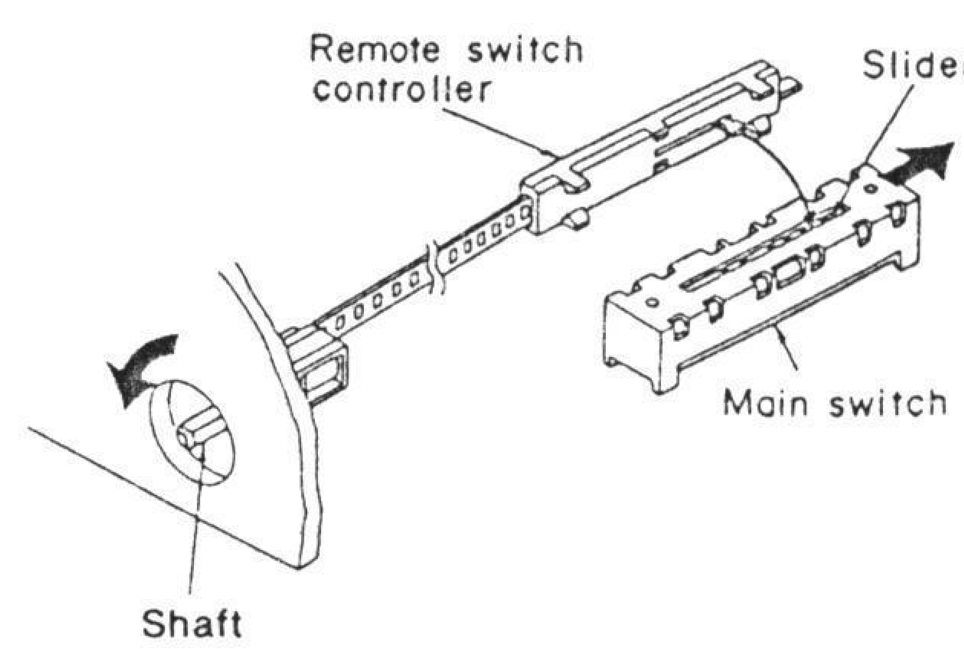
Removal of the remote switch controller

• Release the 4 claws of remote switch controller by used ⊖ screwdriver.

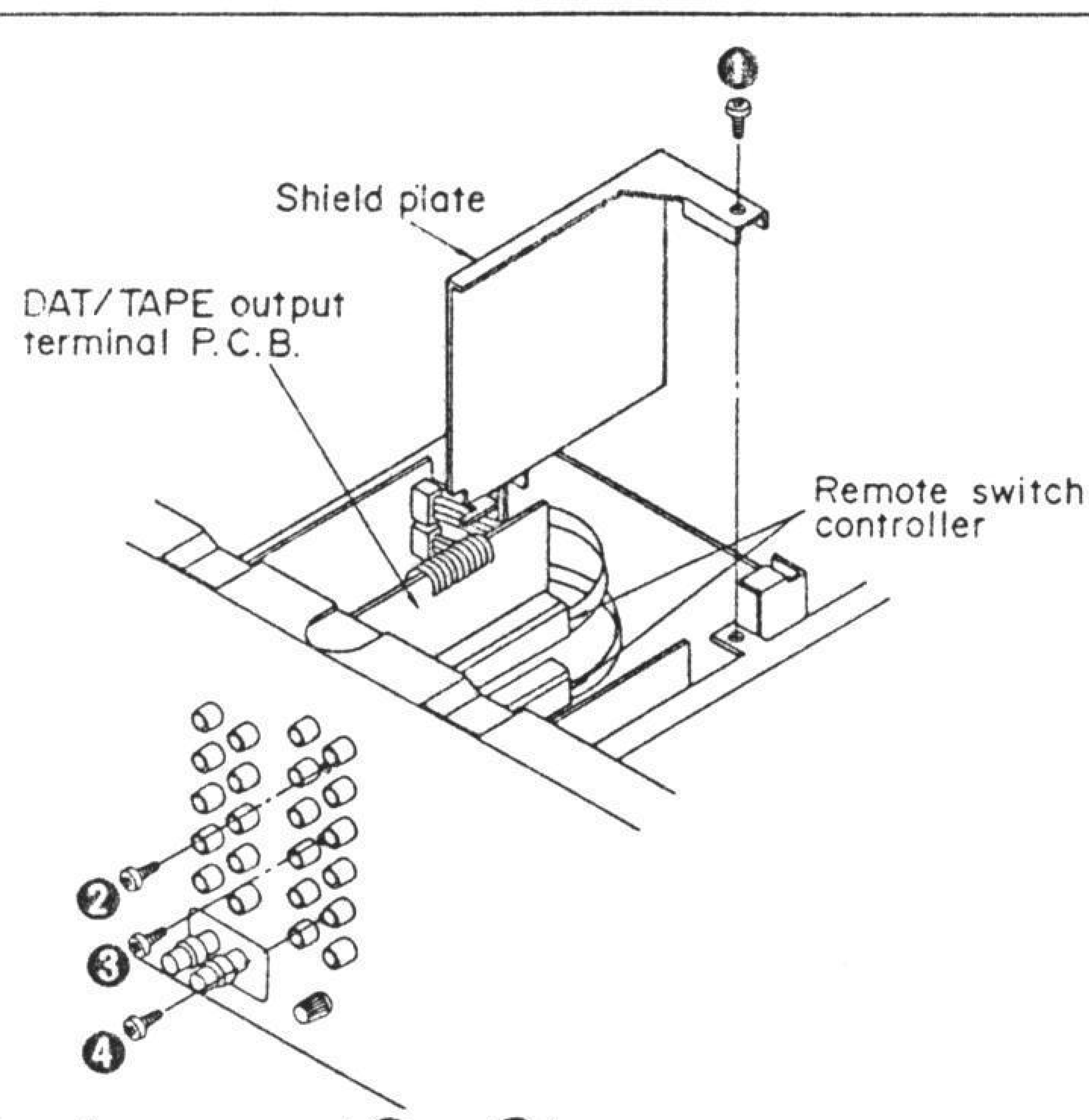


Installation of the remote switch controller

1. Turn the shaft to the end in the direction of the arrow.
2. Slide the slider of the main switch as far as it will go in the direction of the arrow, and then mount the remote switch controller.

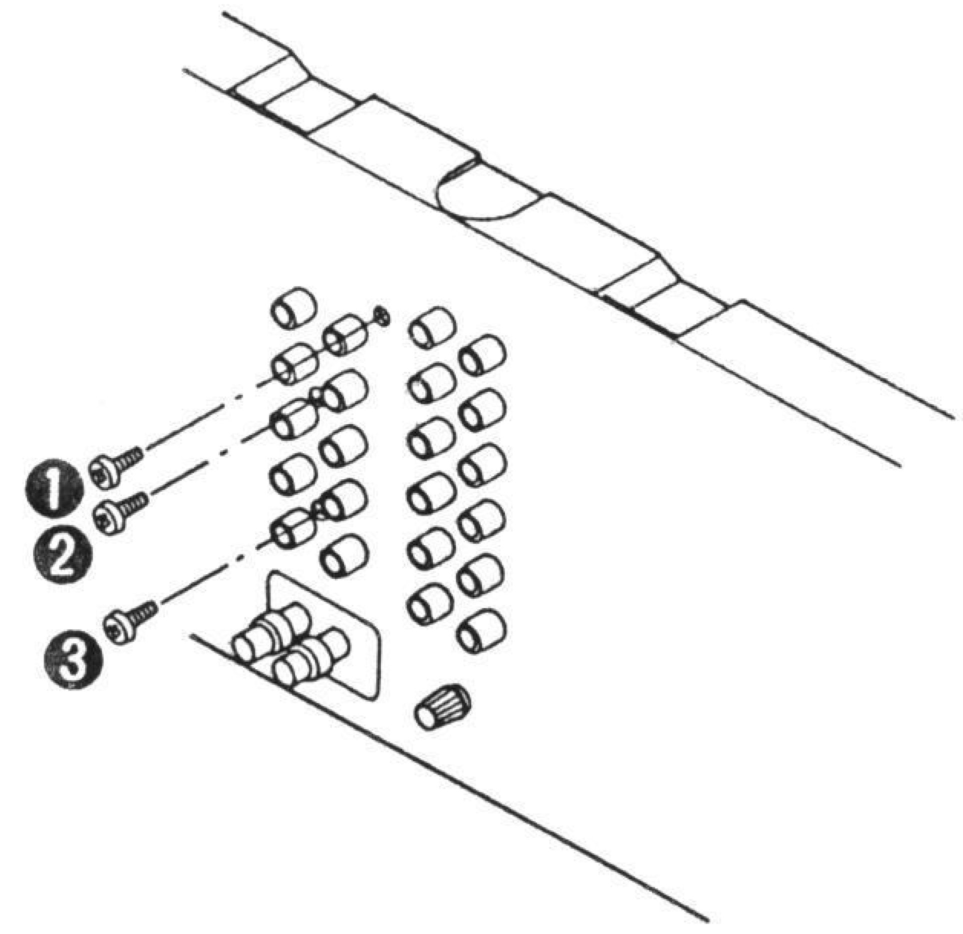


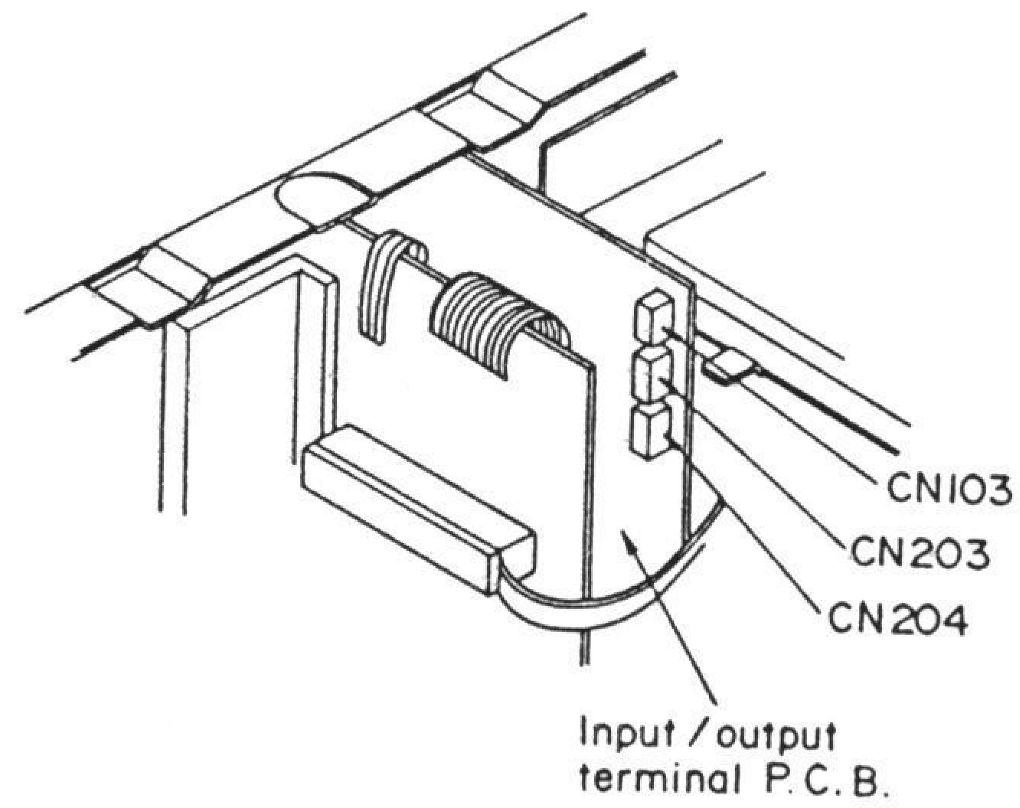
Ref. No. 5	Removal of the DAT/TAPE output terminal P.C.B.
Procedure 1→4→5	



1. Remove the 4 screws (❶~❹).
2. Remove the shield plate.
3. Remove the remote switch controller.

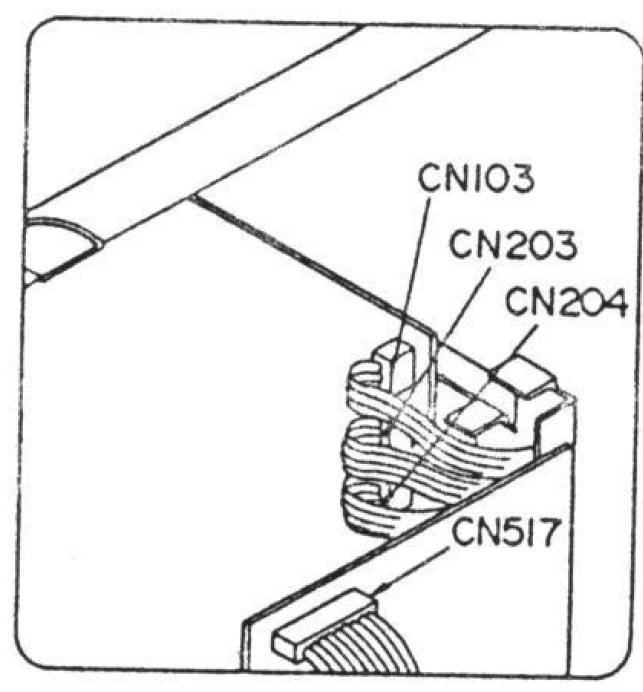
Ref. No. 6	Removal of the input/output terminal P.C.B.
Procedure 1→4→6	

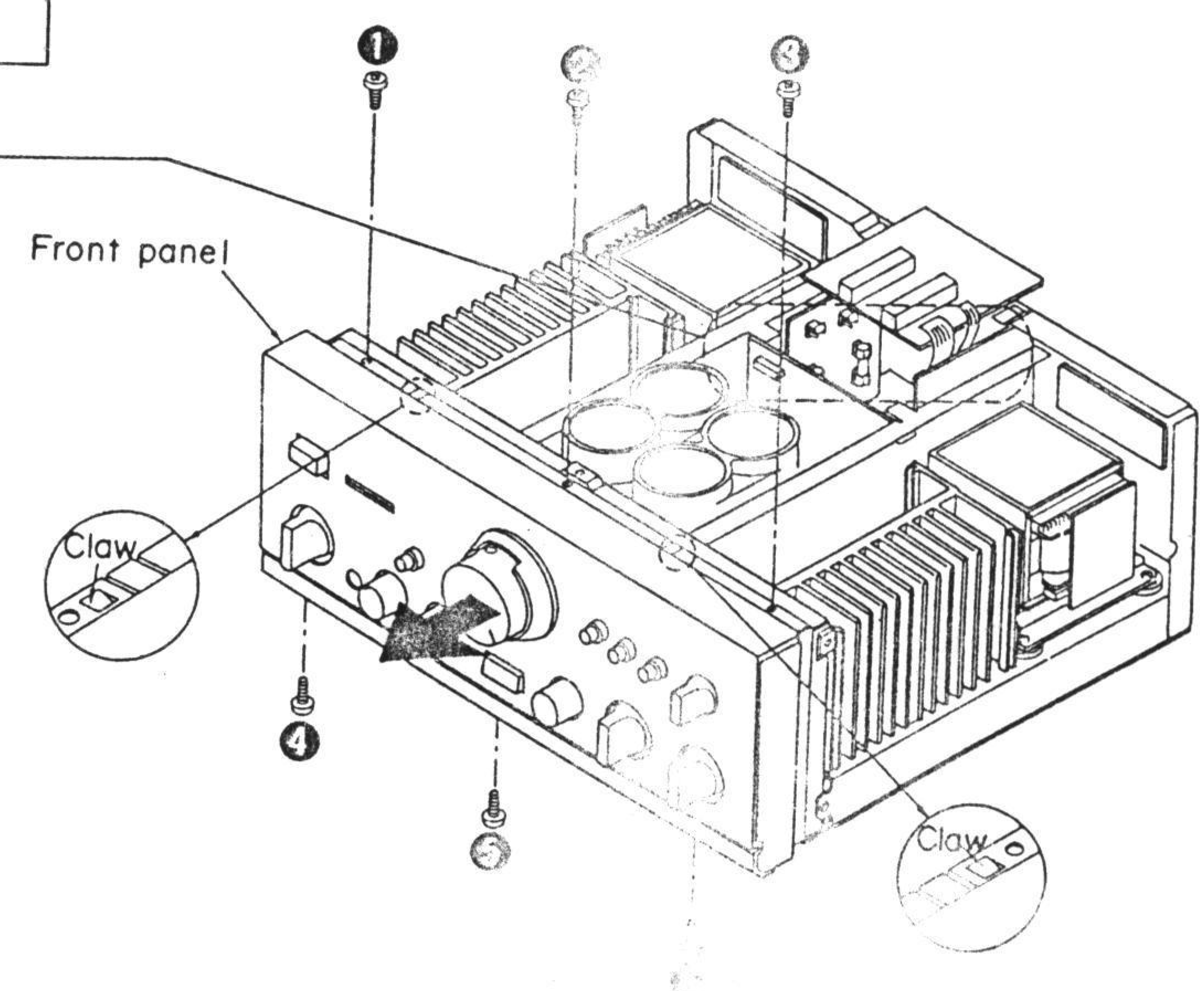




1. Remove the 3 screws (❶ ~ ❸).
2. Remove the 3 connectors (CN103, CN203, CN204).

Ref. No. 7	Removal of the front panel
Procedure 1→2→3→4→5→7	

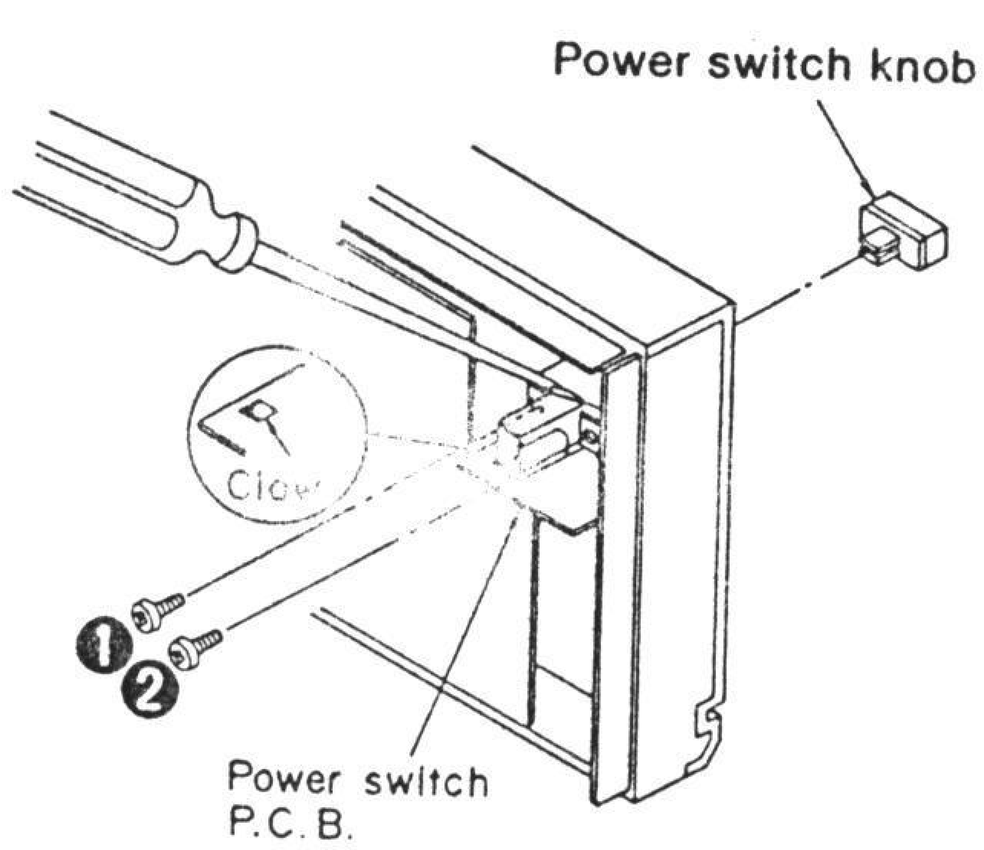




1. Remove the 4 connectors (CN103, CN203, CN204, CN517).
2. Remove the 6 screws (❶ ~ ❻).
3. Release the 2 claws, and remove the front panel in the direction of the arrow.

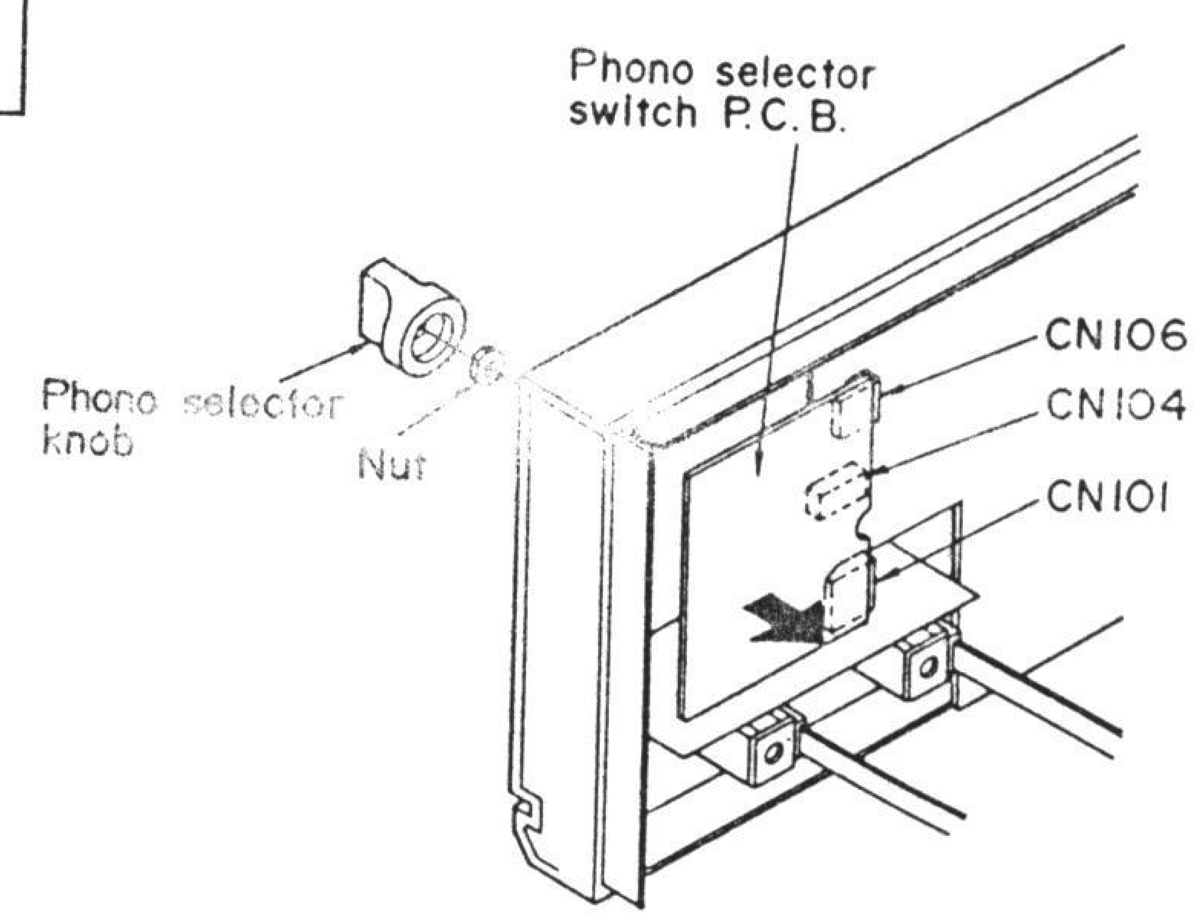
Note: Take care the connectors, and remove the front panel.

Ref. No. 8	Removal of the Power switch P.C.B.
Procedure 7→8	



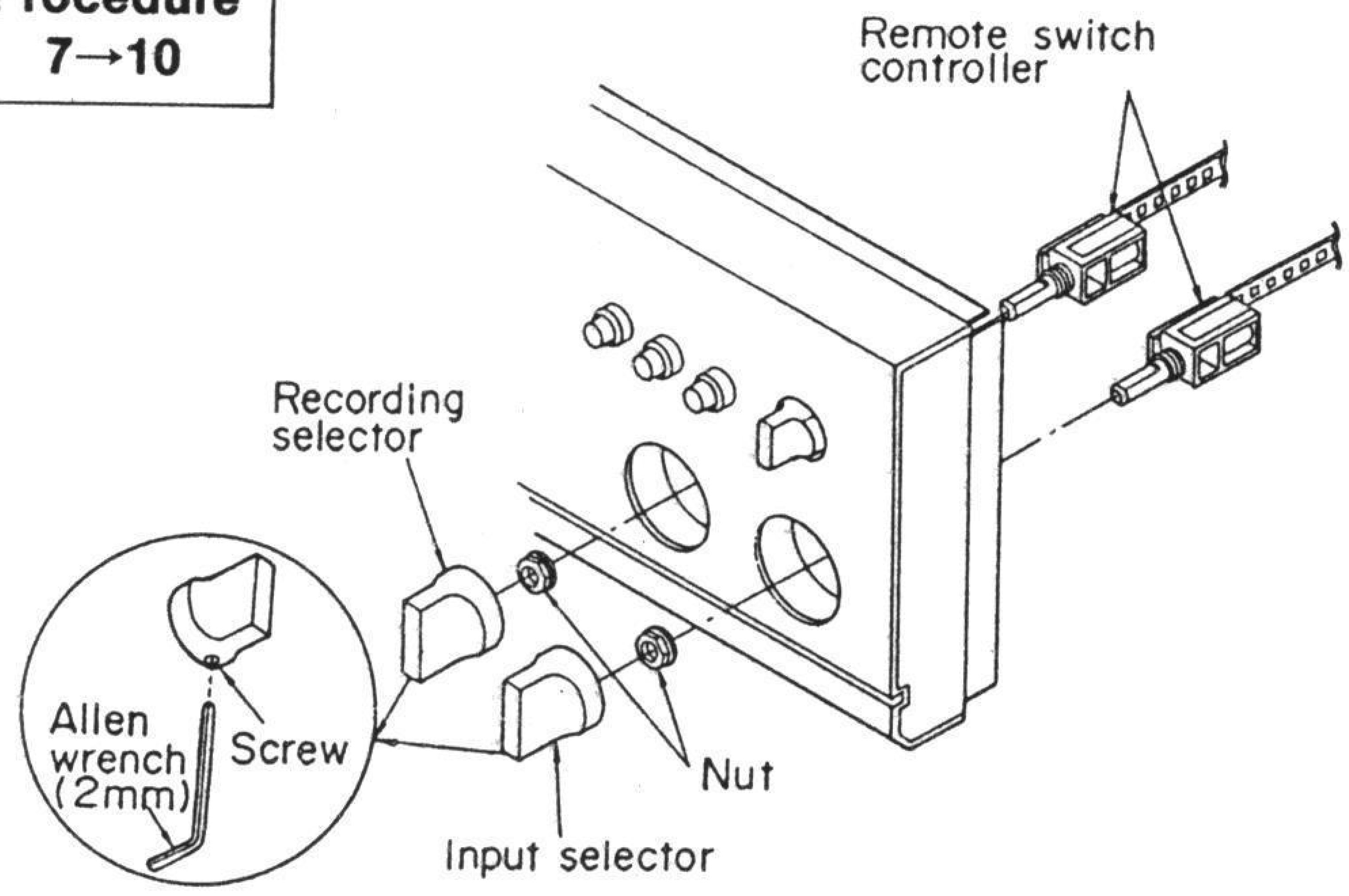
1. Remove the power switch knob by pushing it from behind the front panel.
2. Remove the 2 screws (❶, ❷).
3. Release the 1 claw.

Ref. No. 9	Removal of the Phono selector switch P.C.B.
Procedure 7→9	



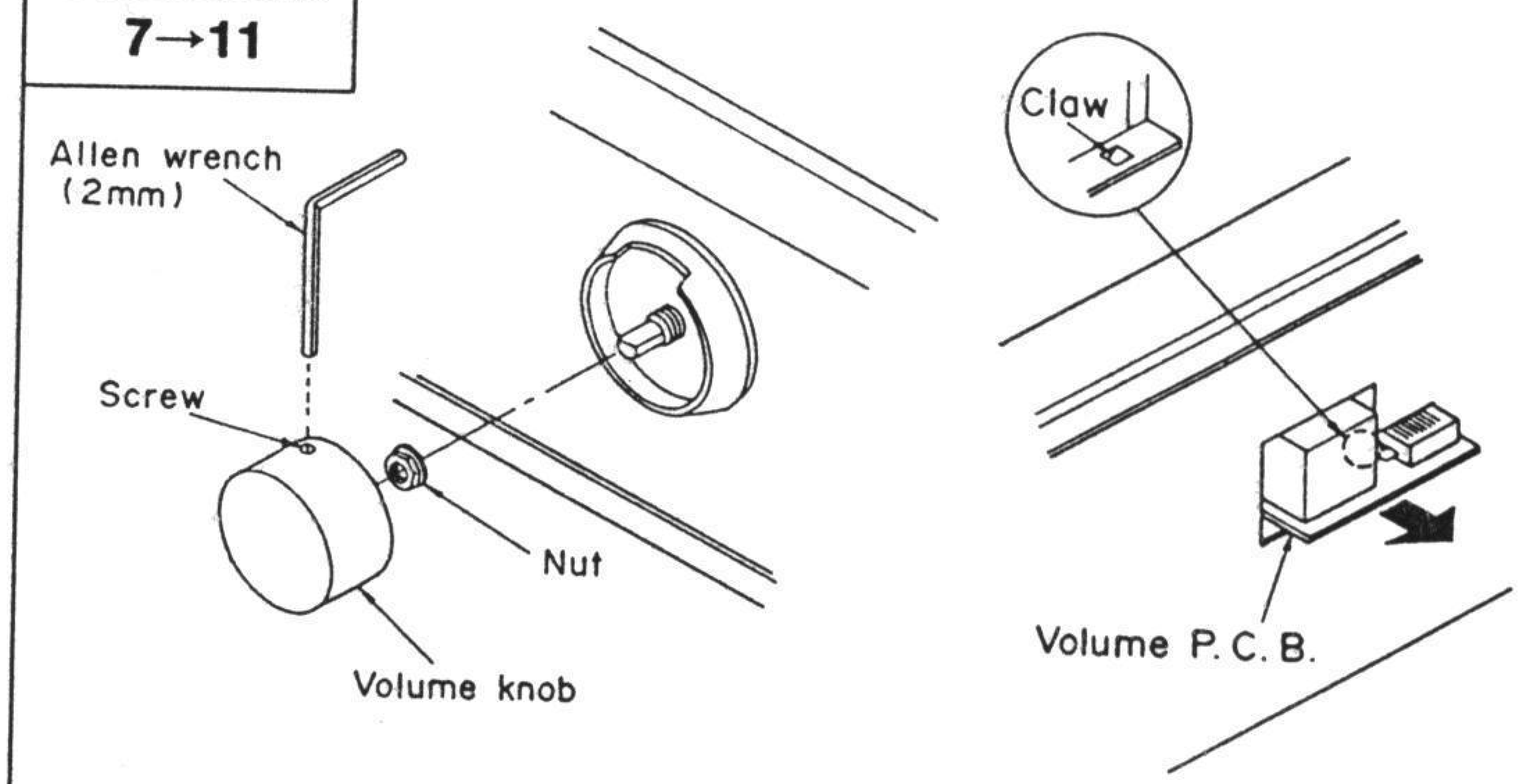
1. Pull out the knob and remove the 1 nut.
2. Remove the 3 connectors (CN101, CN104, CN106), and remove the P.C.B. in the direction of the arrow.

Ref. No. 10	Removal of the remote switch controller
Procedure 7→10	



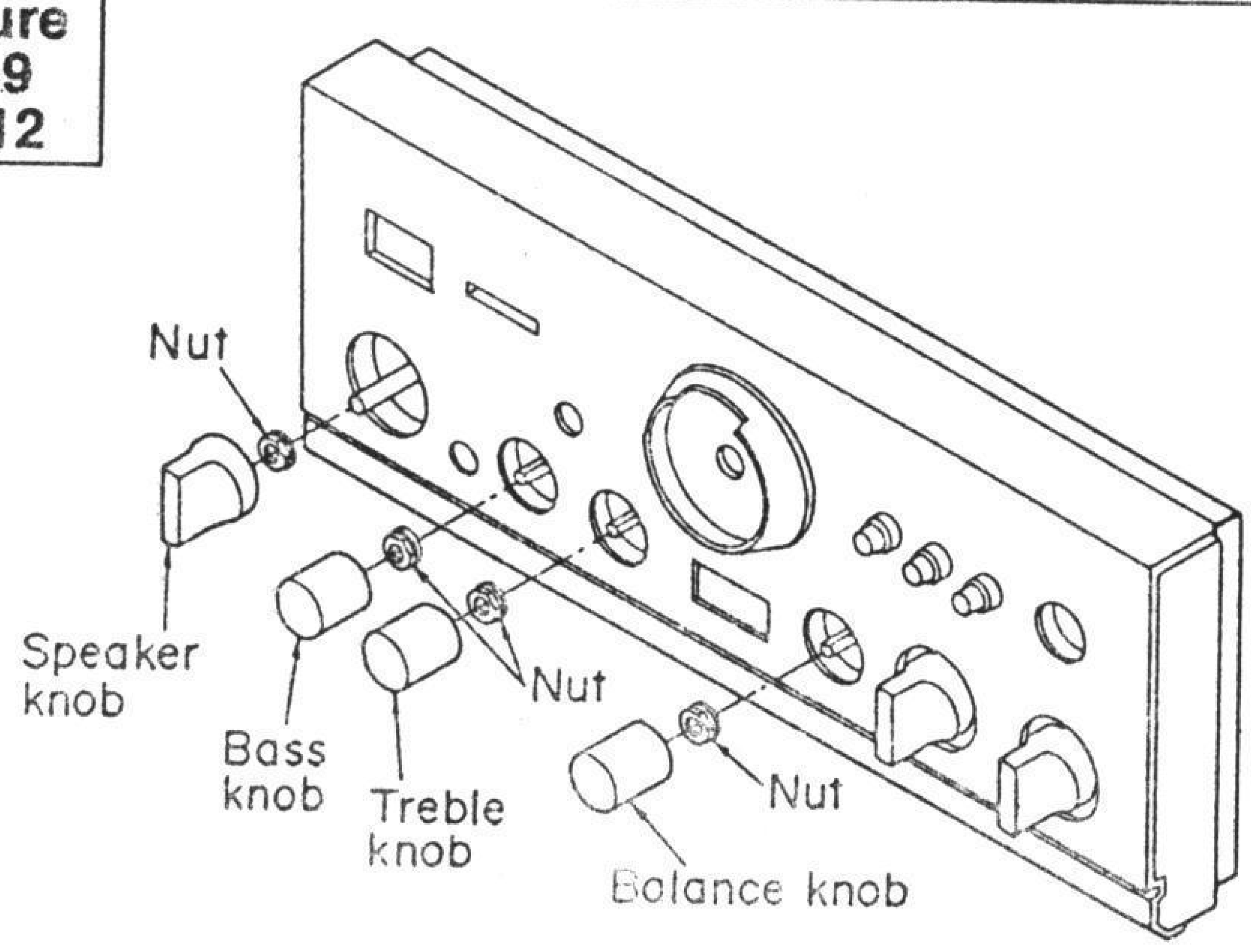
1. Loosen the screws set in the input selector and recording selector by using a allen wrench and remove the knob.
2. Remove the 2 nuts.

Ref. No. 11	Removal of the volume knob
Procedure 7→11	

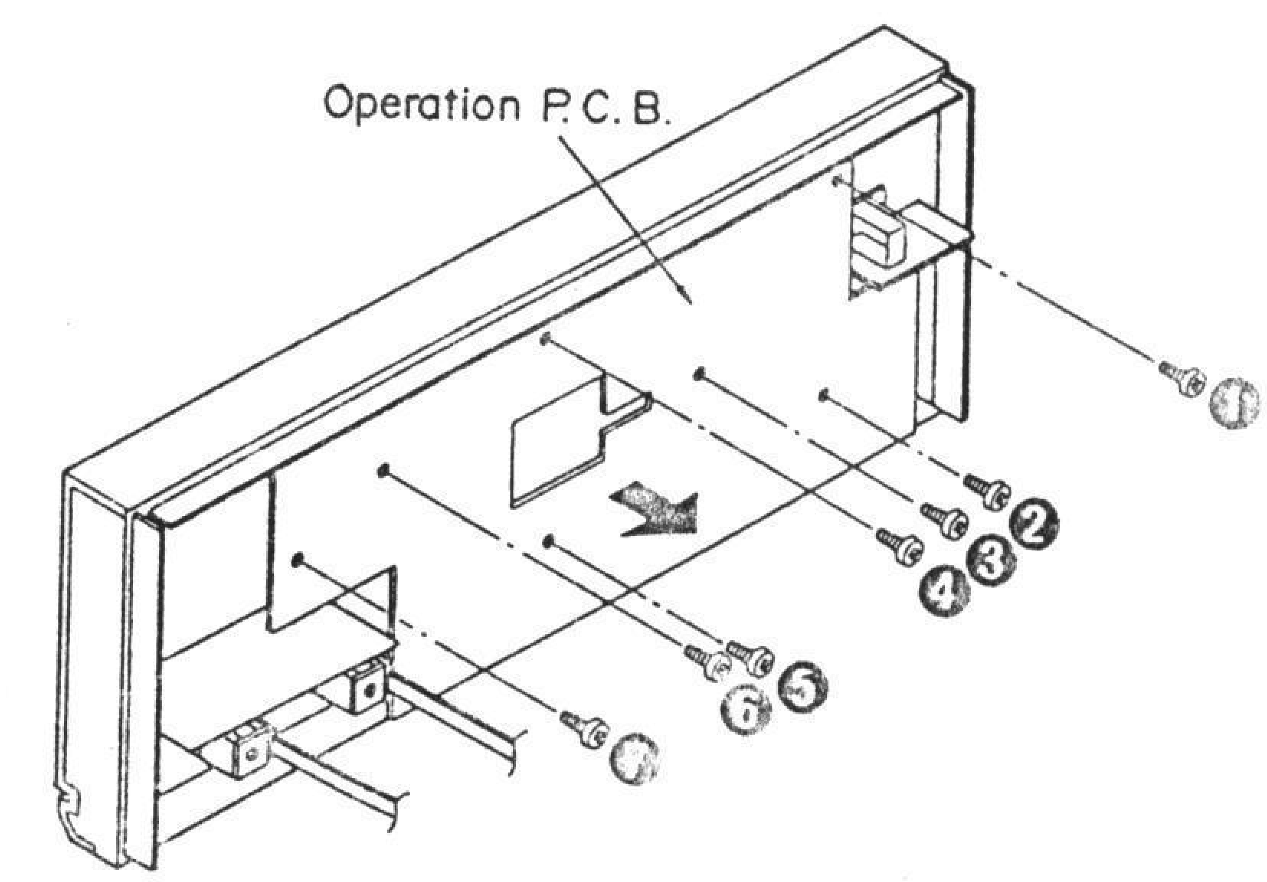


1. Loosen the screws set in the volume knob by using a allen wrench and remove the knob.
2. Remove the 1 nut.
3. Release the 1 claw, and remove the volume P.C.B. in the direction of the arrow.

Ref. No. 12	Removal of the operation P.C.B.
Procedure 7→8→9 →11→12	

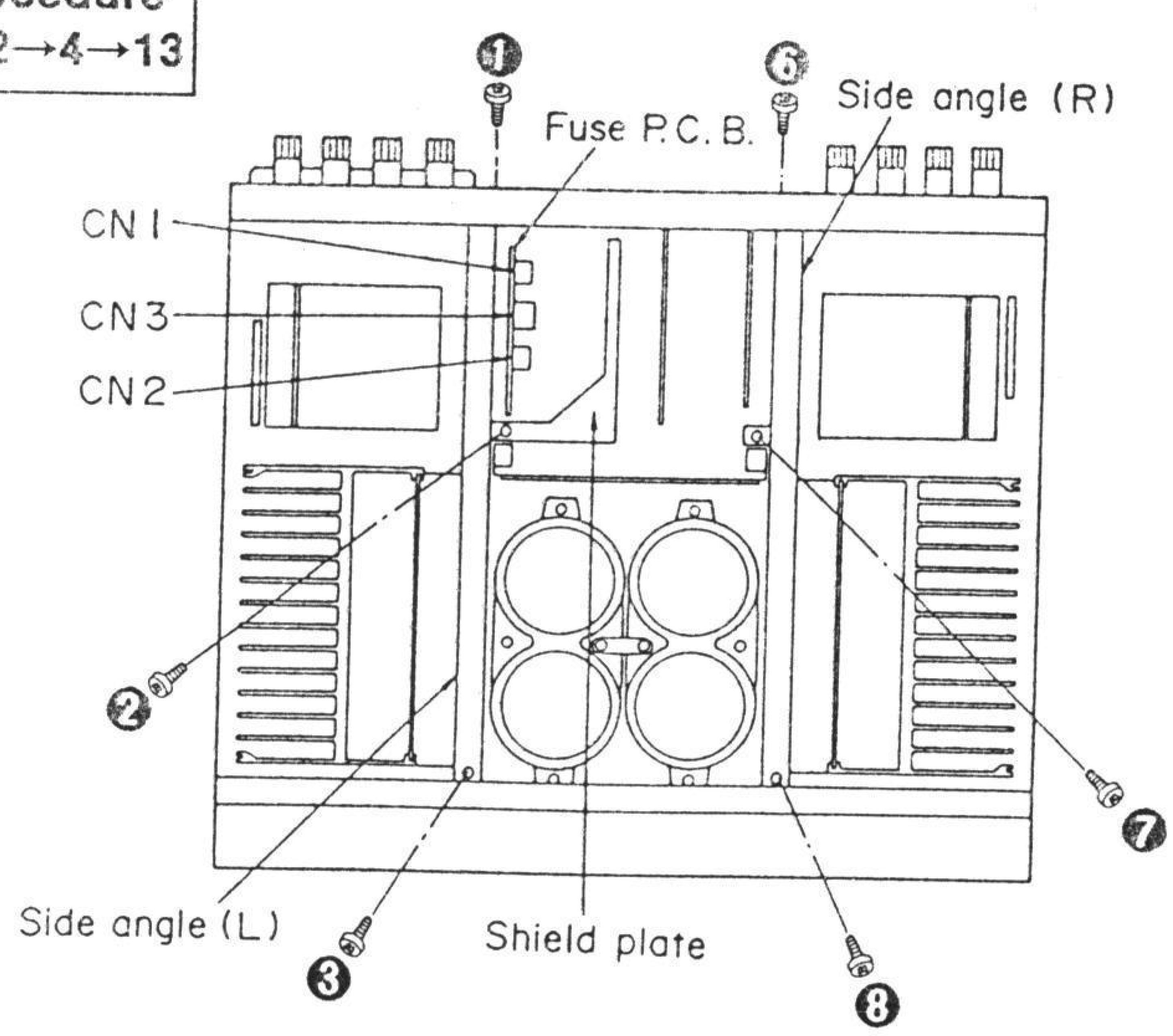


1. Loosen the screws set in the speaker knob by using a allen wrench and remove the knob.
2. Pull out the bass knob, treble knob, balance knob.



3. Remove the 4 nuts.
4. Remove the 7 screws (①~⑦).
5. Remove the operation P.C.B. in the direction of the arrow.

Ref. No. 13	Removal of the side angle (L), (R) and fuse P.C.B.
Procedure 1→2→4→13	

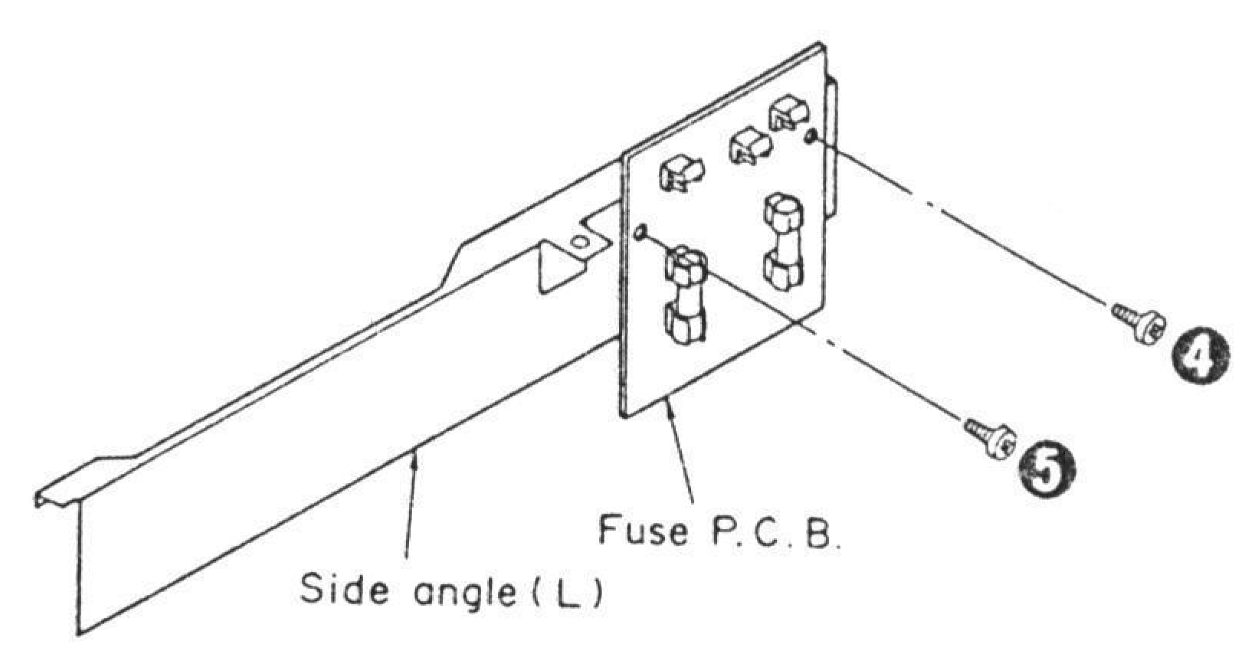


■ Removal of the side angle (L) and fuse P.C.B.

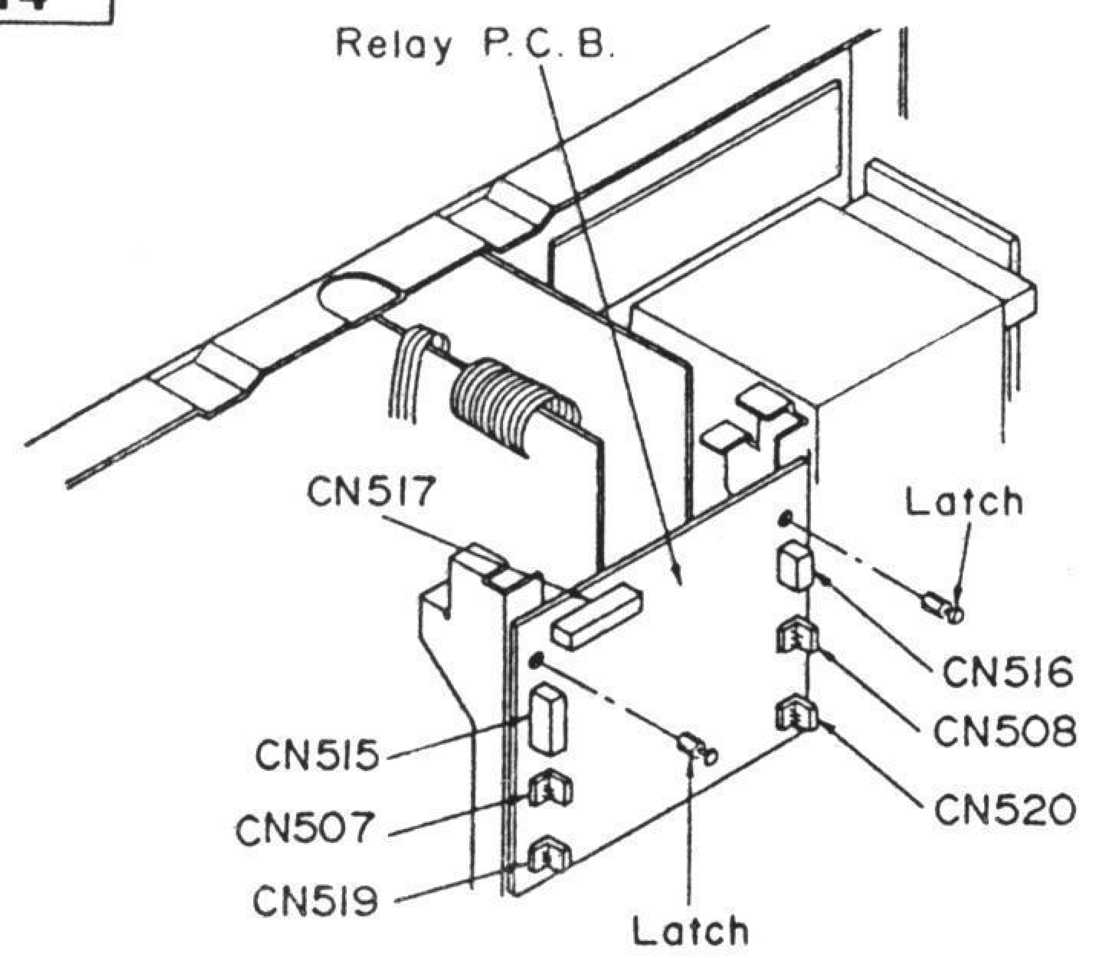
1. Remove the 3 connectors (CN1, CN2, CN3).
2. Remove the 3 screws (①~③).
3. Remove the side angle (L) and fuse P.C.B.
4. Remove the 2 screws (④, ⑤), and remove the fuse P.C.B.

■ Removal of the side angle (R)

1. Remove the 3 screws (⑥~⑧).

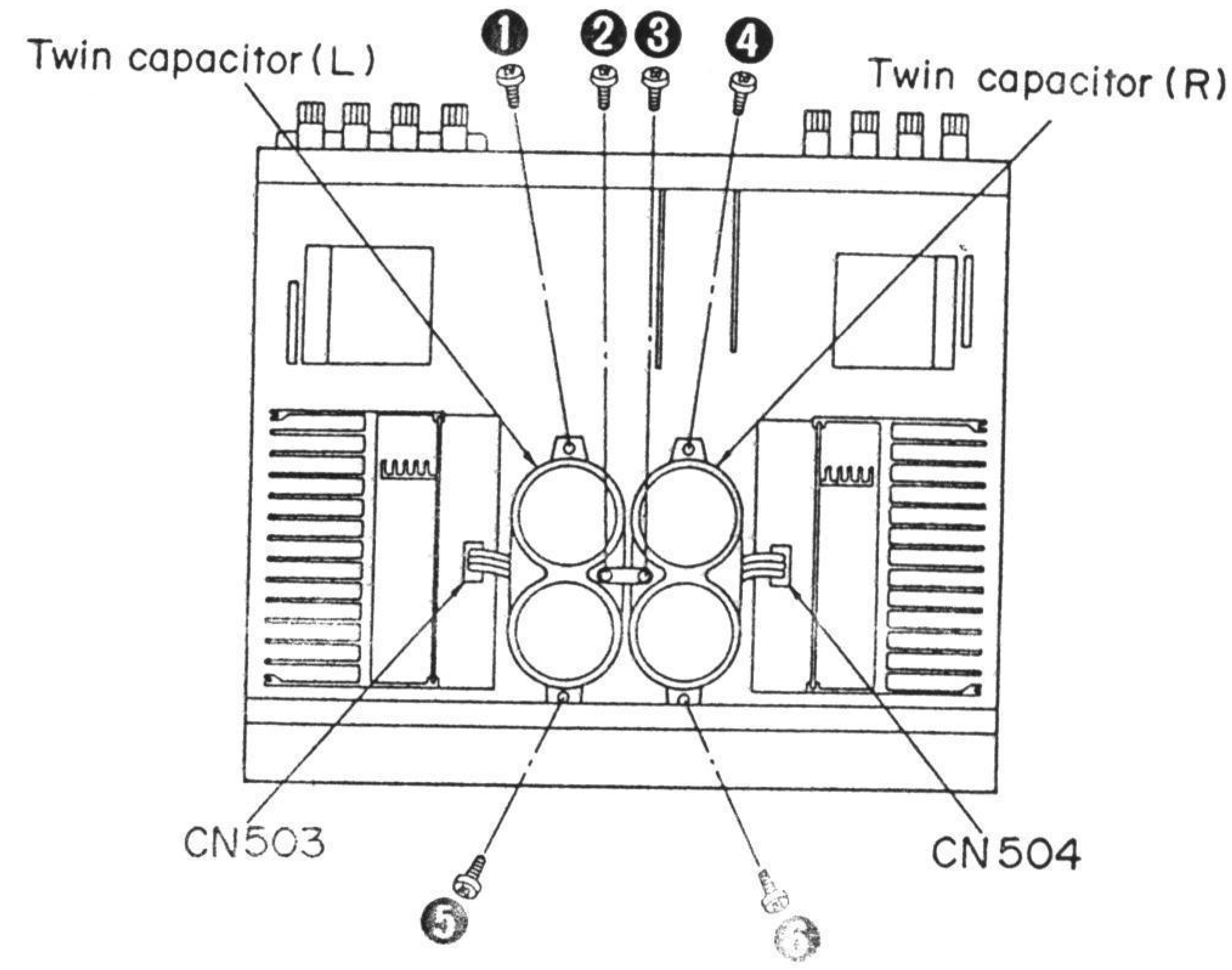


Ref. No. 14	Removal of the relay P.C.B.
Procedure 1→2→4→13→14	



1. Remove the 2 latches.
2. Remove the 7 connectors (CN507, CN508, CN515, CN516, CN517, CN519, CN520).

Ref. No. 15	Removal of the twin capacitor (L), (R)
Procedure 1→2→4→13→14→15	



1. Remove the 2 connectors (CN503, CN504).
2. Remove the 6 screws (❶~❻).

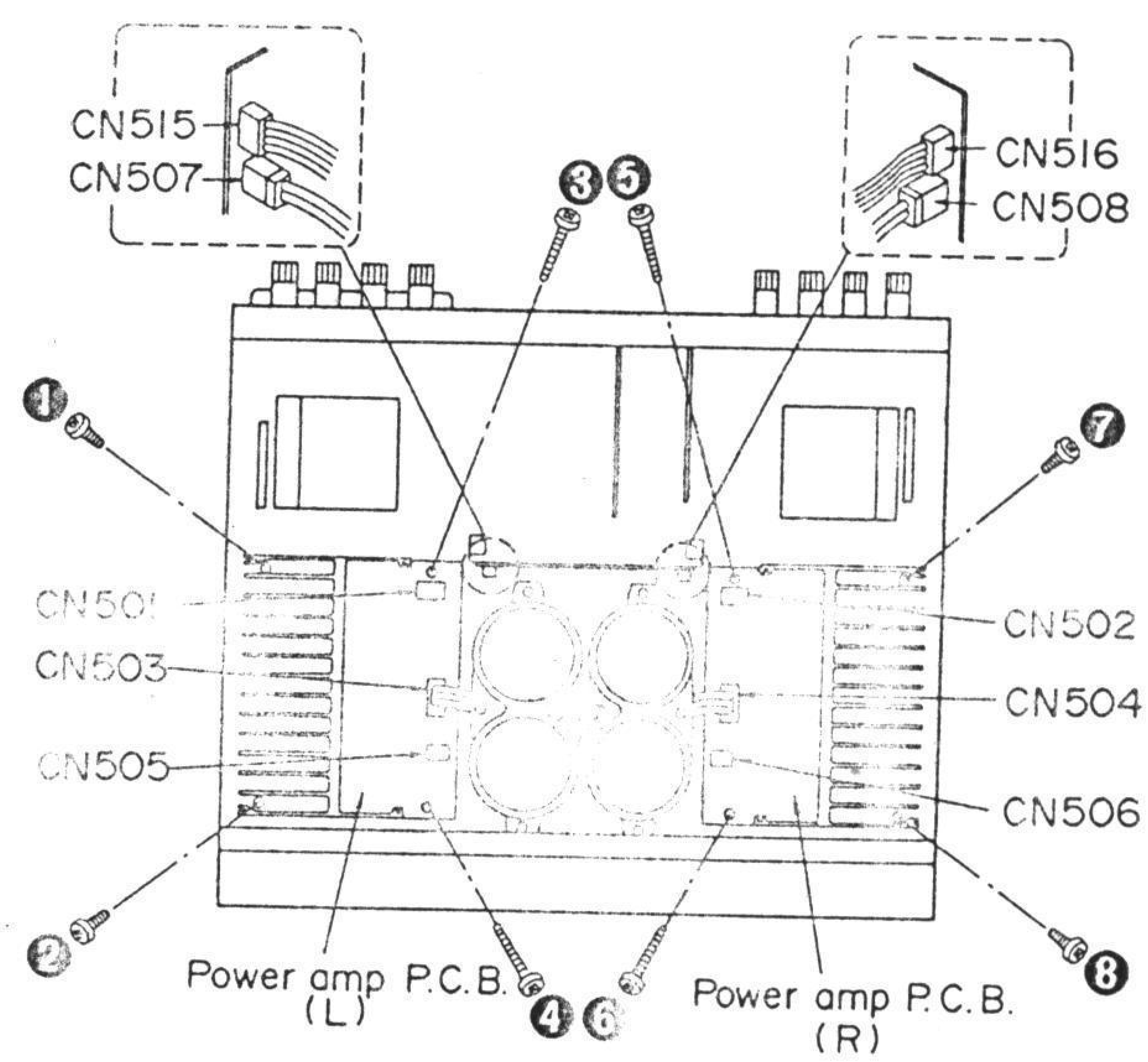
Ref. No. 16	Removal of the power amp P.C.B. (L), (R)
Procedure 1→2→3→4→13→16	

■ **Removal of the power amp P.C.B. (L)**

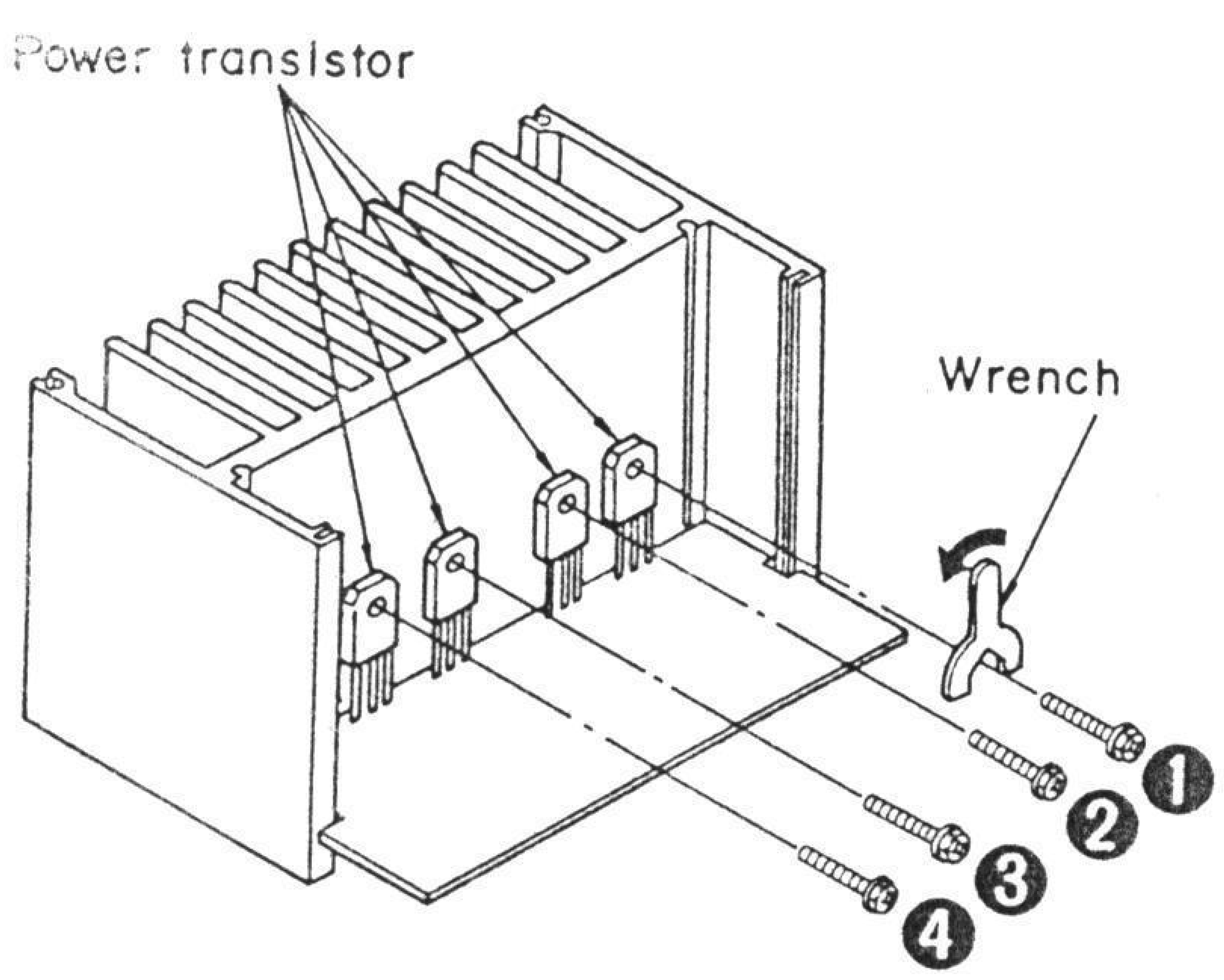
1. Remove the 4 screws (❶~❹).
2. Remove the 5 connectors (CN501, CN503, CN505, CN507, CN515).

■ **Removal of the power amp P.C.B. (R)**

1. Remove the 4 screws (❺~❽).
2. Remove the 5 connectors (CN502, CN504, CN506, CN508, CN516).



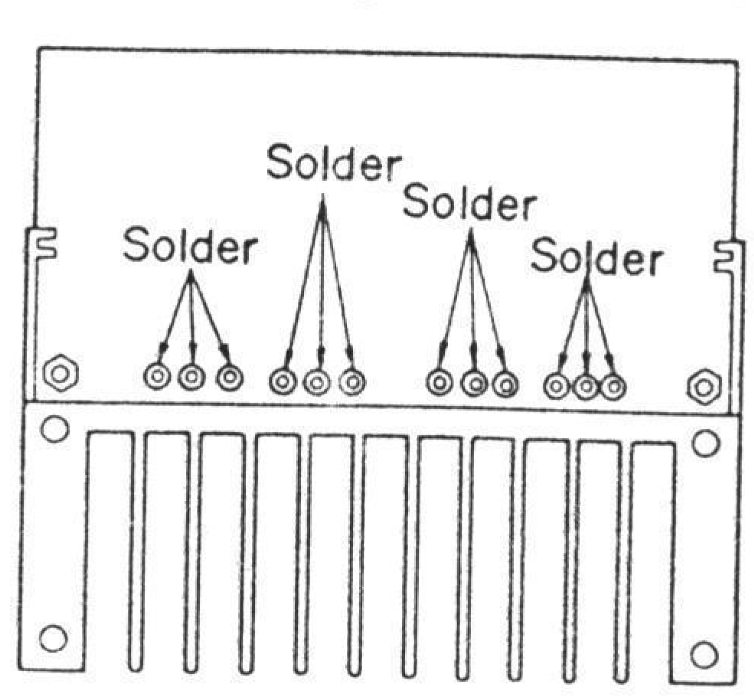
Ref. No. 17	Removal of the power transistor
Procedure 16→17	



1. Unsolder the power transistor.
2. Remove the 4 screws (❶~❹).

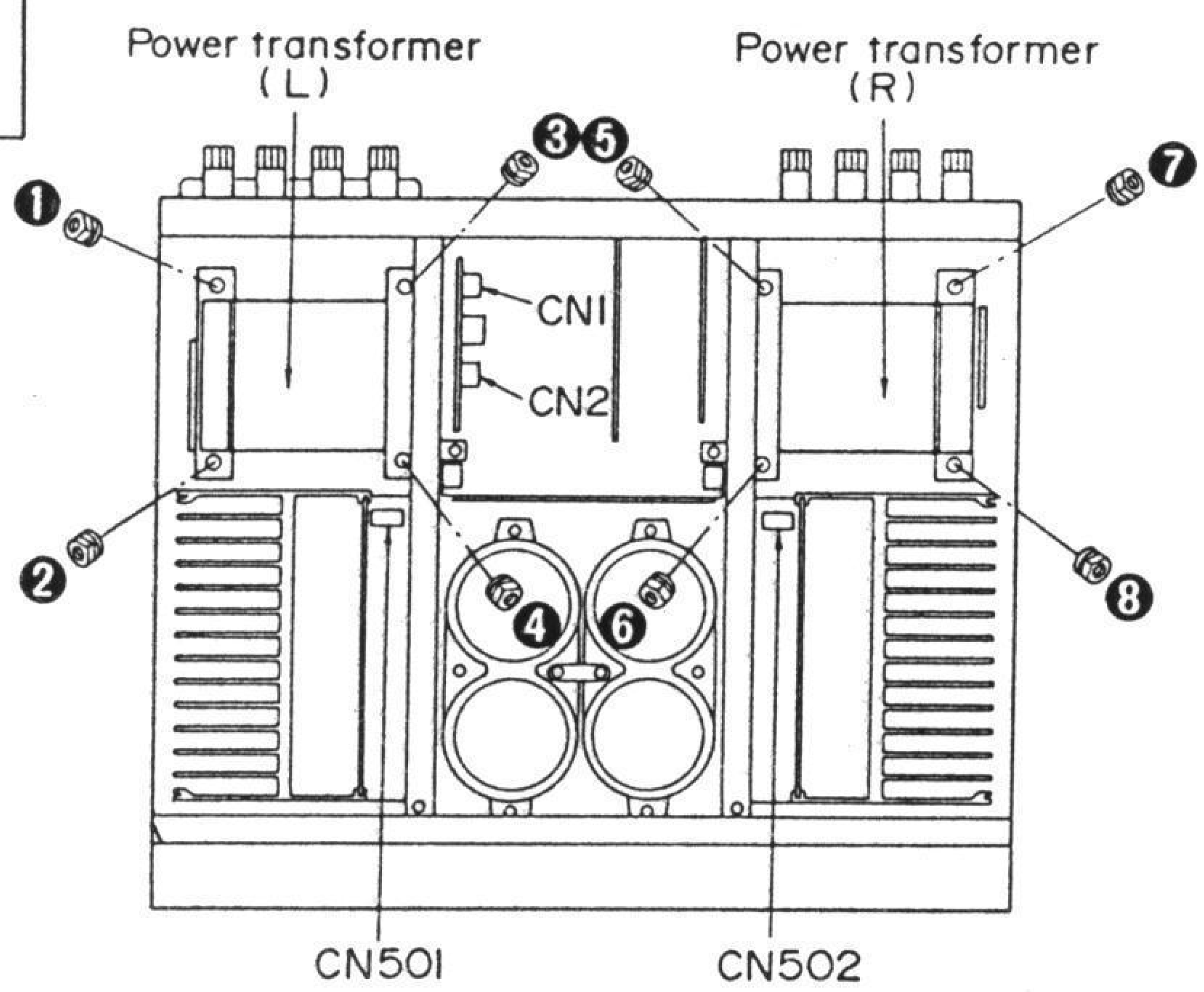
(This figure show the left (Lch) power transistor. Remove the right (Rch) power transistor in the same way.)

- When mounting the power IC or regulator transistor.
  Apply silicone compound (SZZ0L15) to the rear side of power IC or regulator transistor.



Ref. No. 18 — Removal of the Power transformer (L), (R)

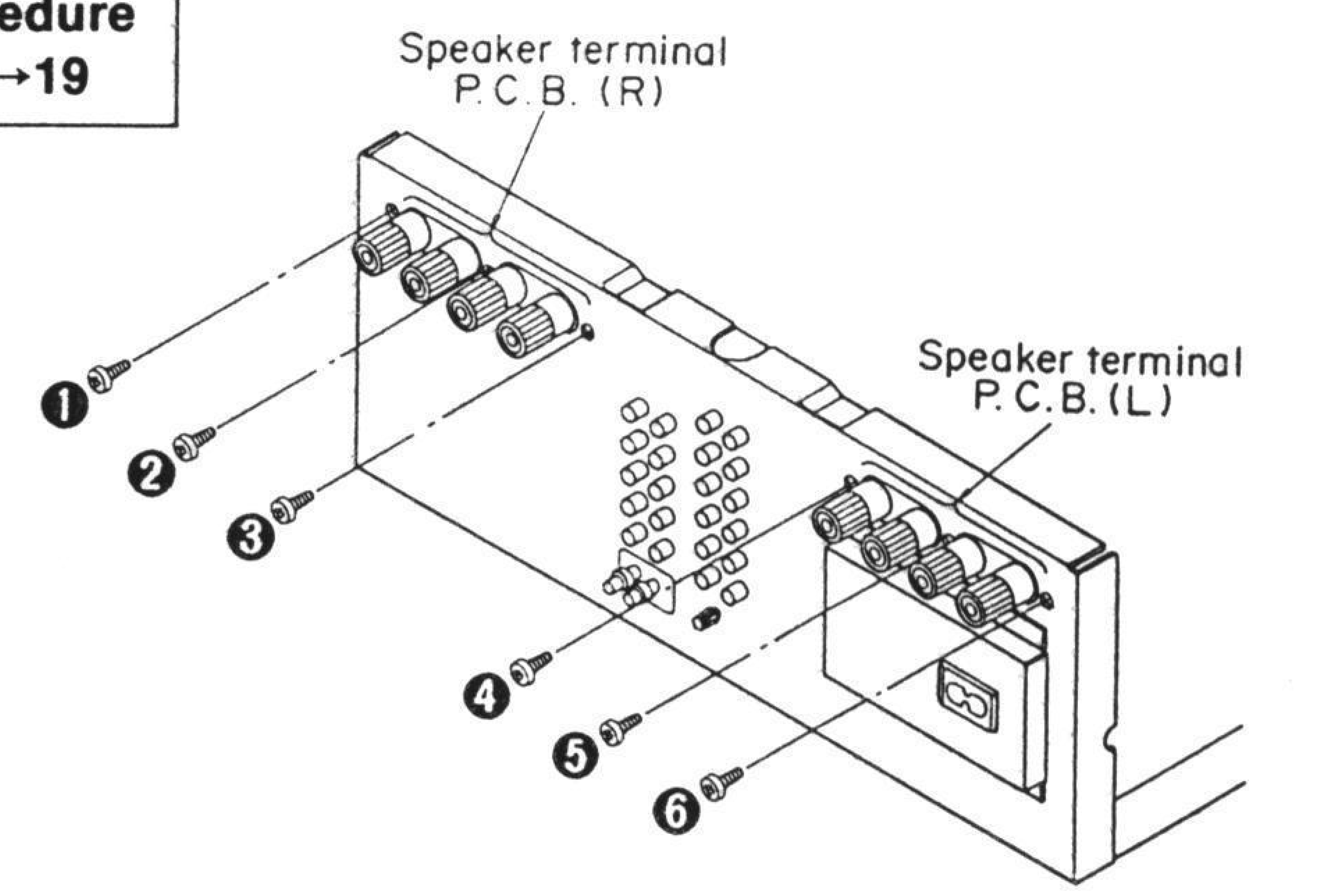
Procedure 1→2→3→4→18



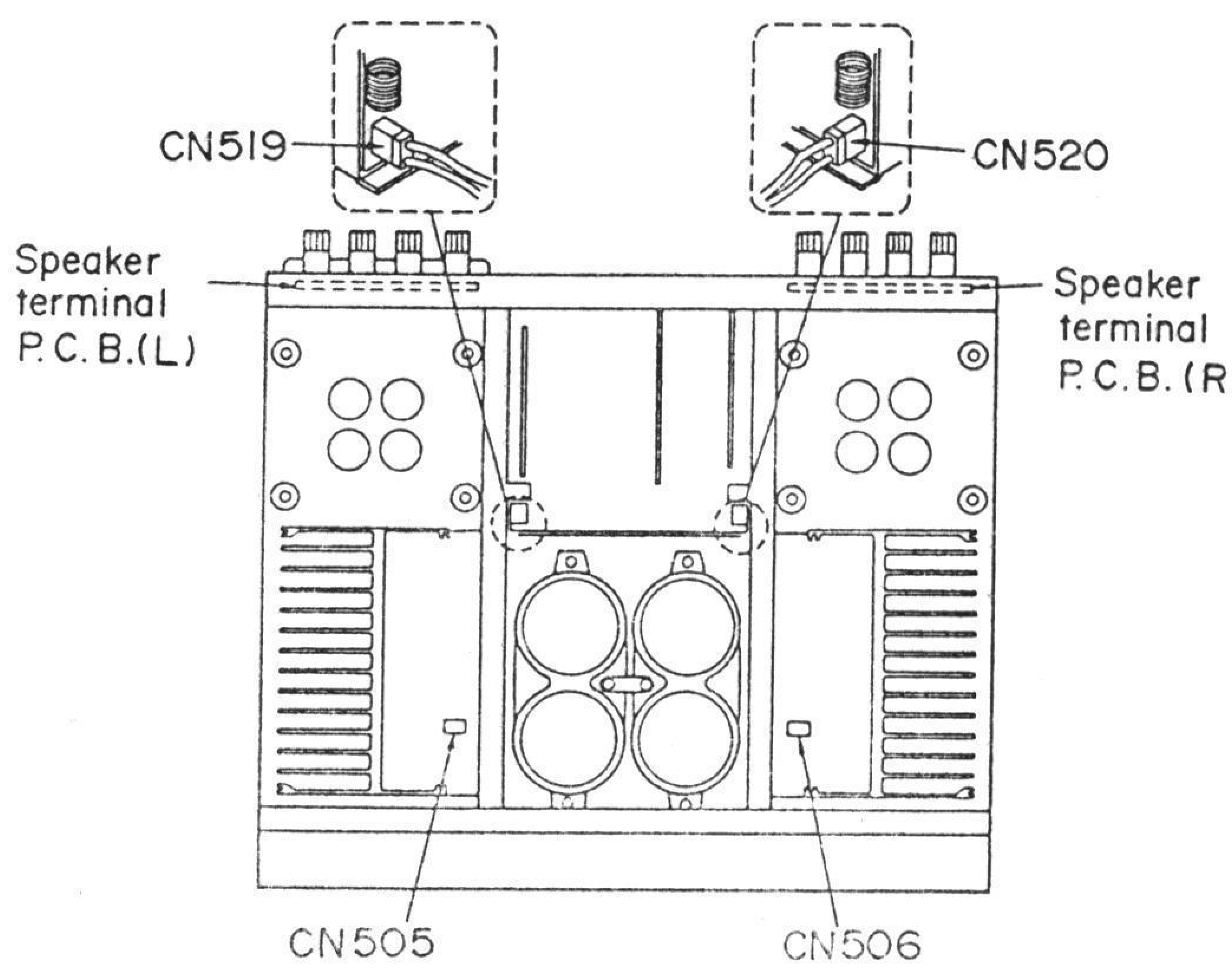
1. Remove the 8 nuts (❶~❽).
2. Remove the 4 connectors (CN1, CN2, CN501, CN502).

Ref. No. 19 — Removal of the speaker terminal P.C.B. (L), (R)

Procedure 18→19



1. Remove the 6 screws (❶~❻).

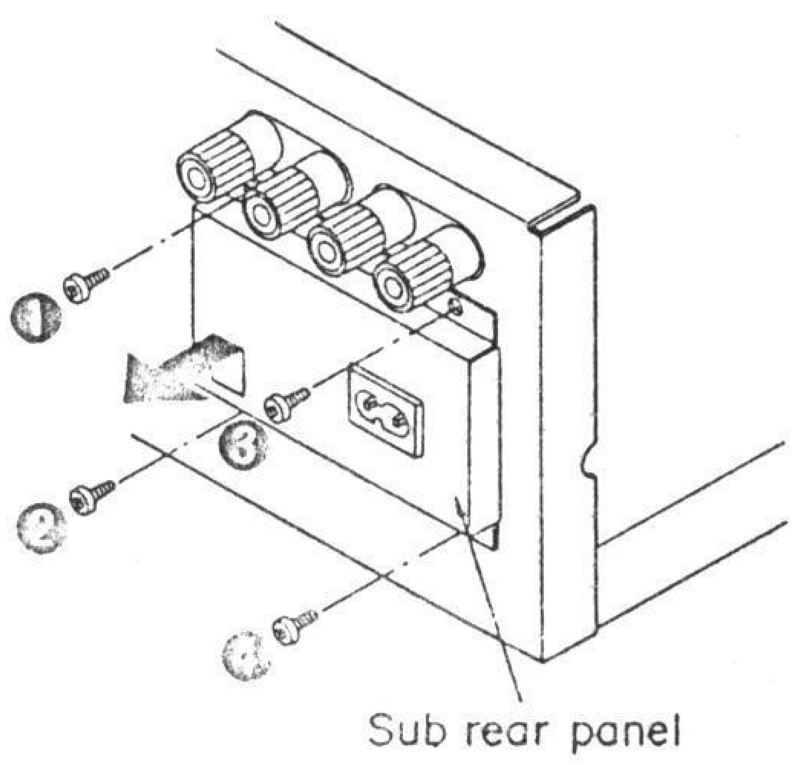


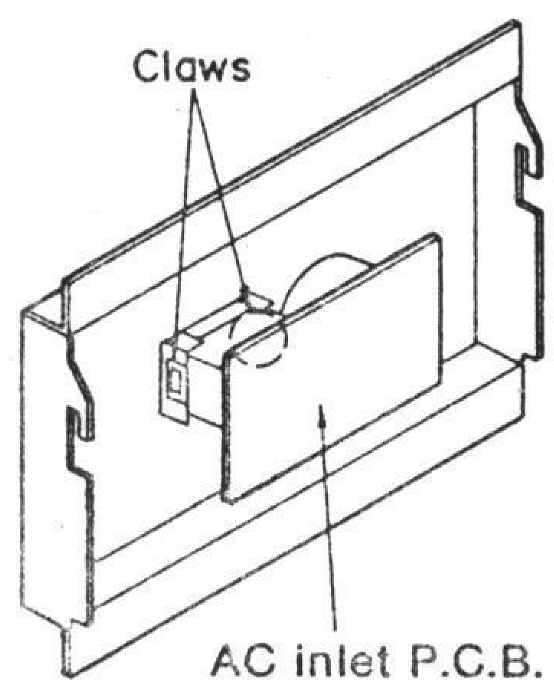
2. Remove the 4 connector (CN505, CN506, CN519, CN520).

Ref. No. 20 — Removal of the AC inlet P.C.B.

Procedure 1→20

1. Remove the 4 screws (❶~❹), and remove the sub rear panel in the direction of the arrow.



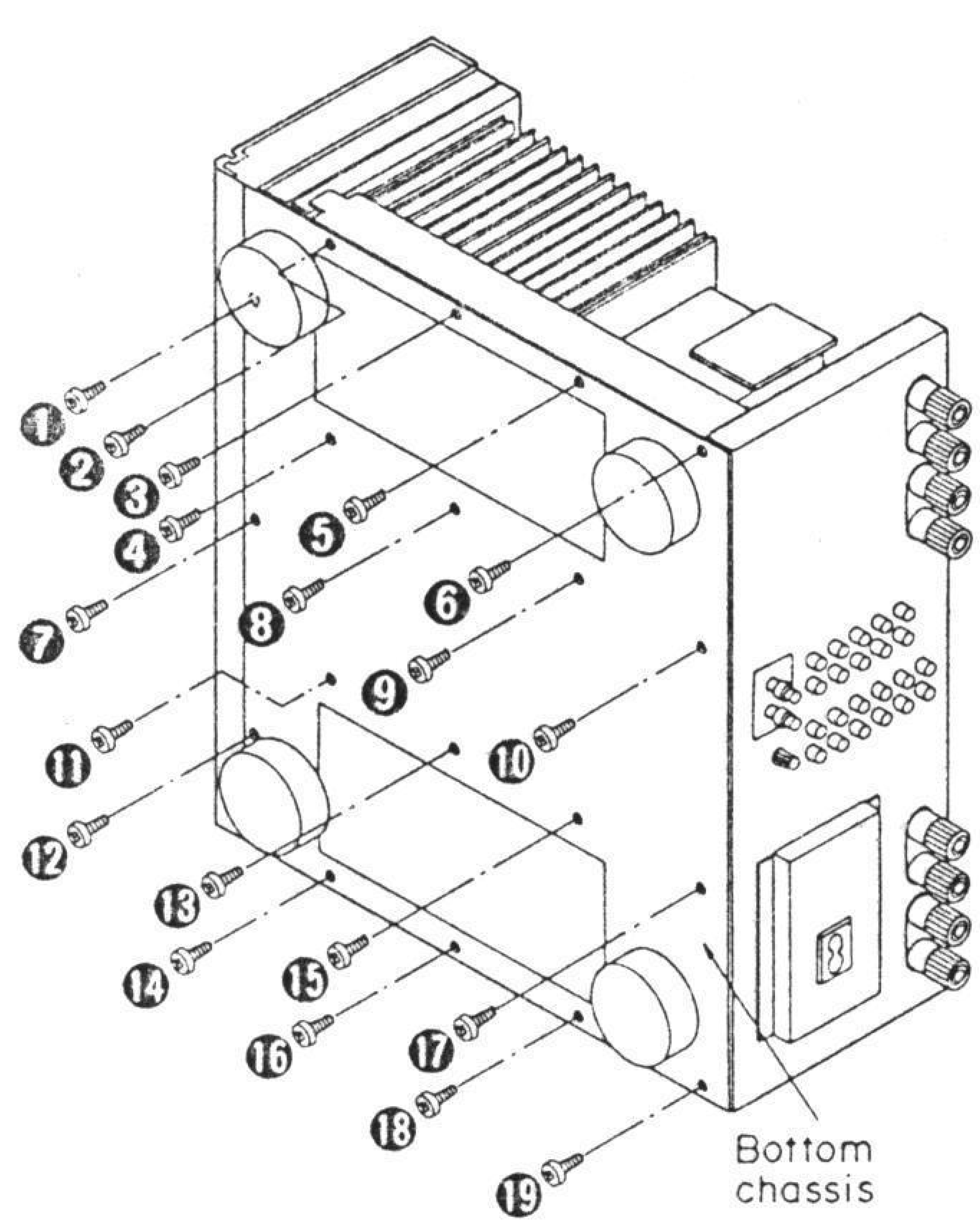


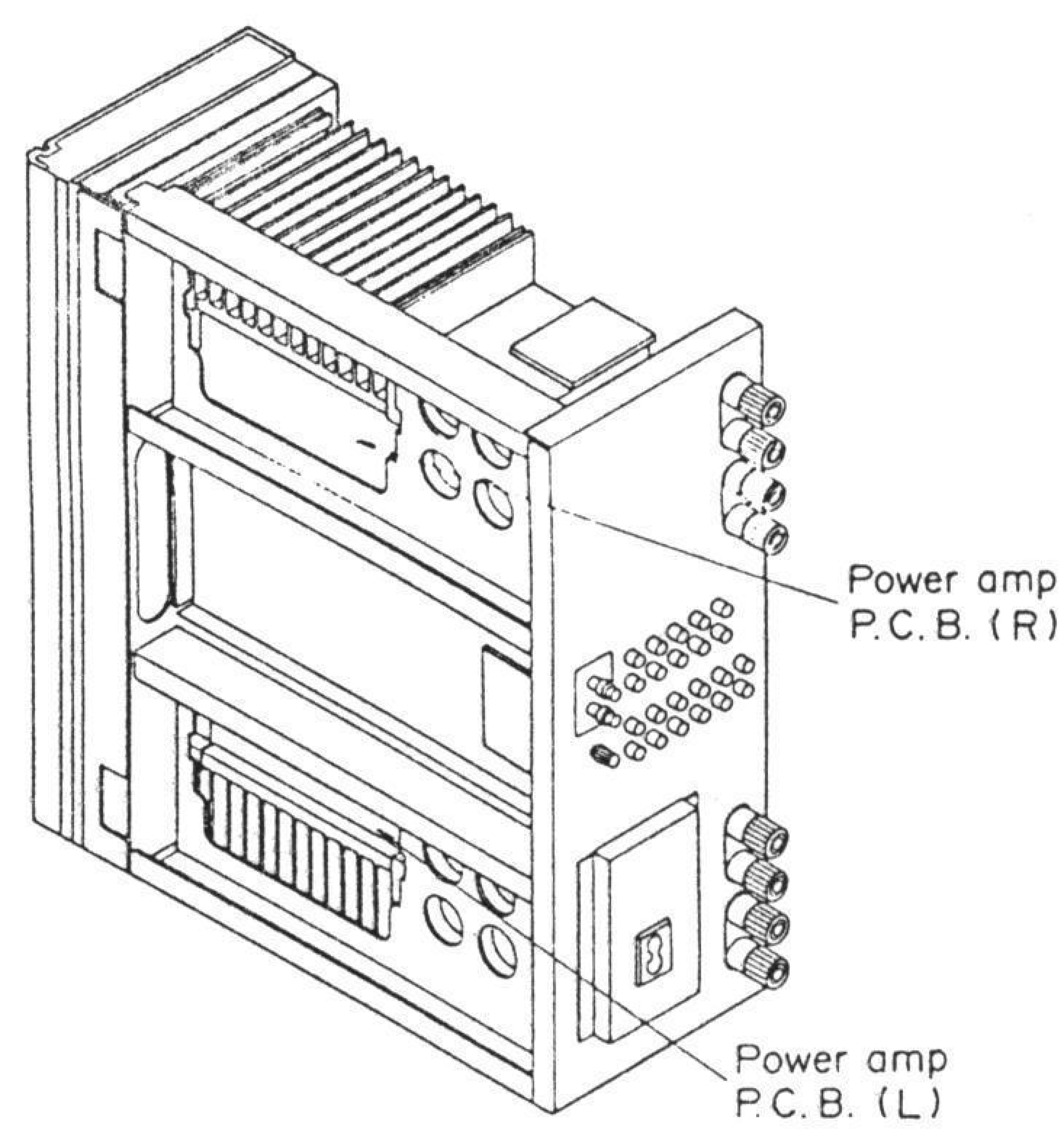
2. Push the 2 claws of AC inlet P.C.B. in the direction of the arrow, and remove it.

Ref. No. 21 — How to check the power amp P.C.B.

Procedure 1→21

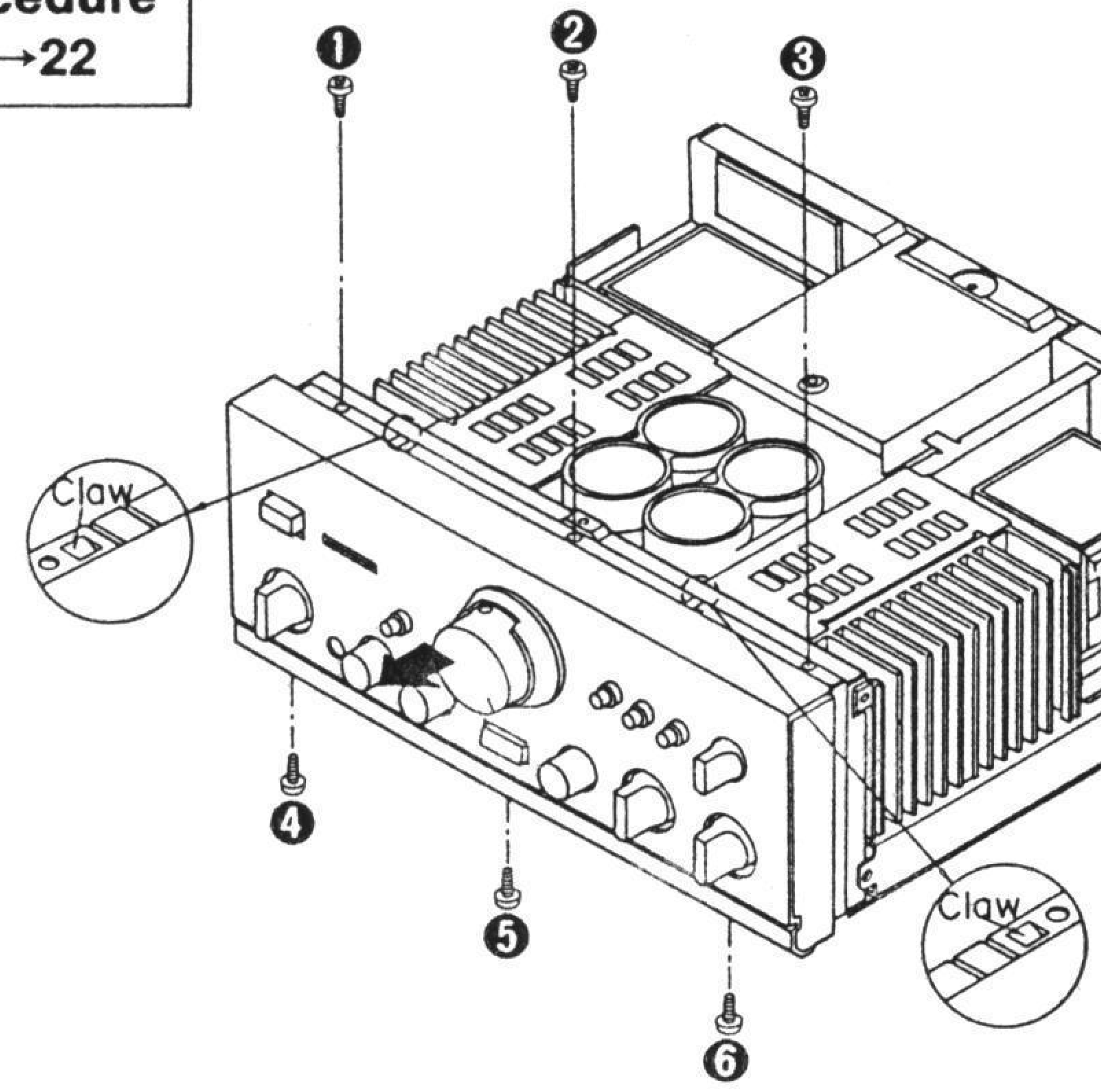
1. Remove the 19 screws (❶~⓳), and remove the bottom chassis.

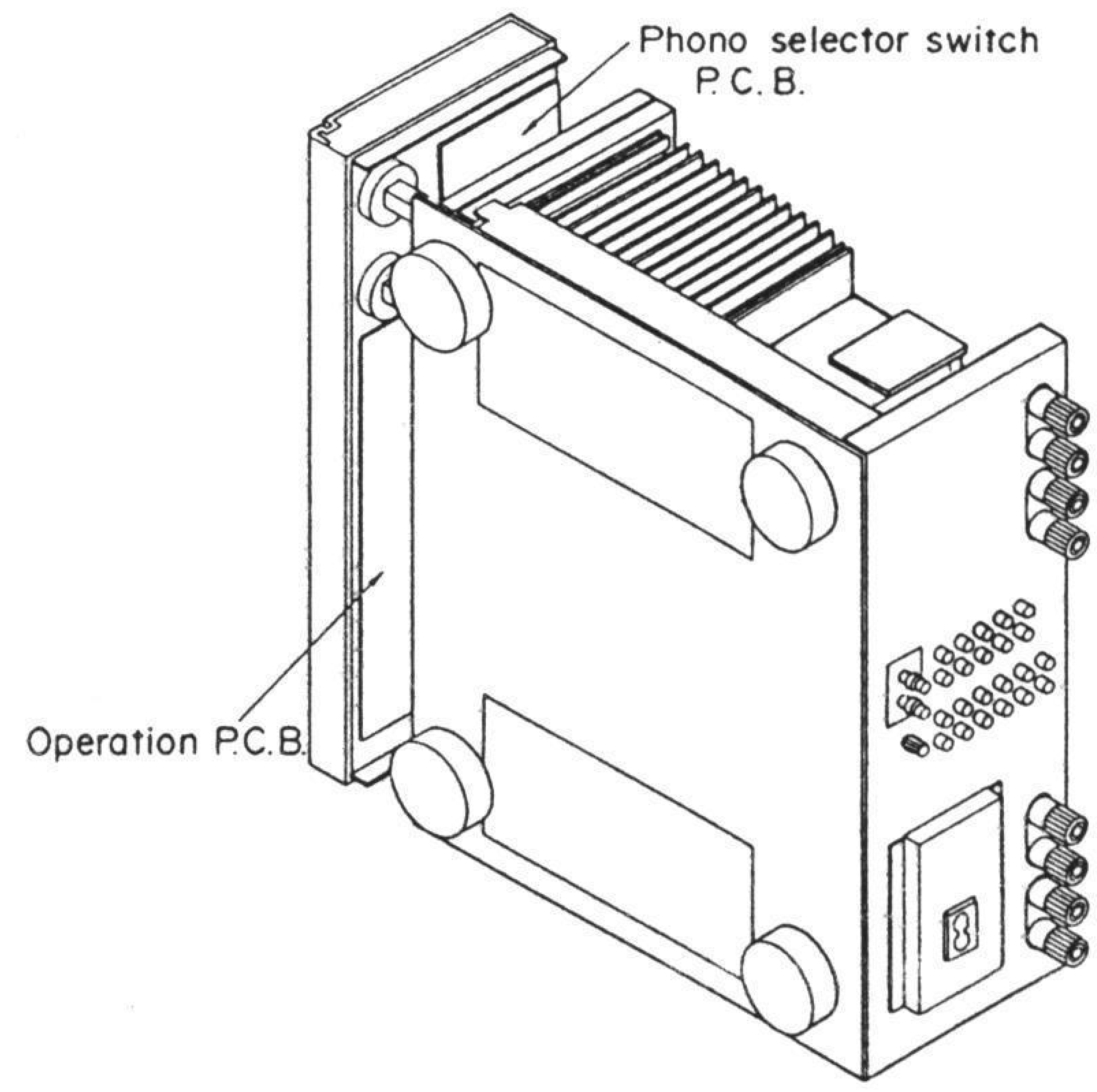




2. When checking the soldered surface of P.C.B. and replacing the parts, do as shown.

Ref. No. 22	How to check the operation P.C.B. and Phono selector switch P.C.B.
Procedure 1→22	





1. Remove the 6 screws (❶~❻).
2. Release the 2 claws and pull out the front panel in the direction of the arrow.
3. When checking the soldered surface of P.C.B. and replacing the parts, do as shown.

Note: Take care the connectors, and pull out the front panel.

Ref. No. 23	How to check the voltage control
Procedure 1→2→23	

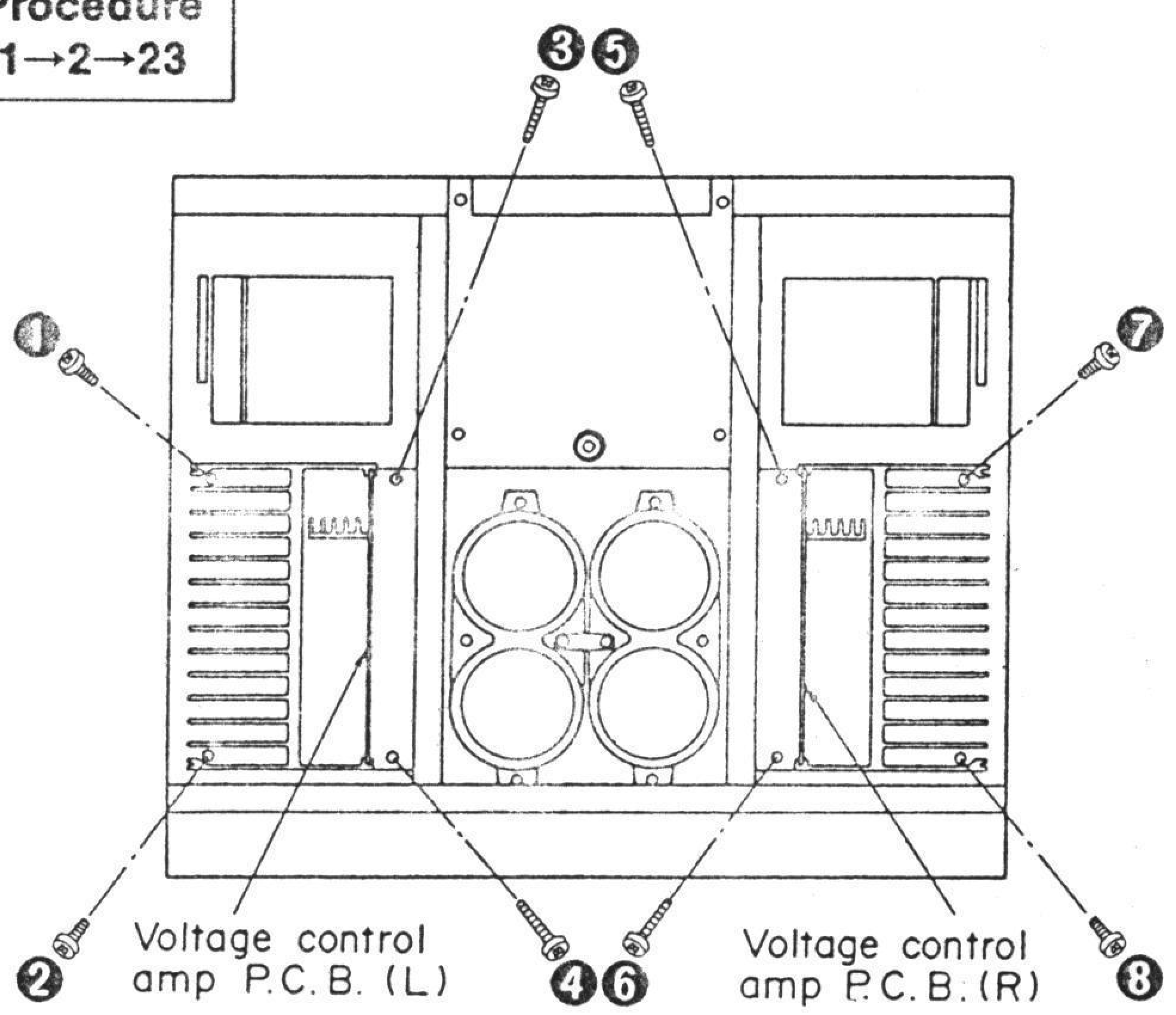


Fig. 1

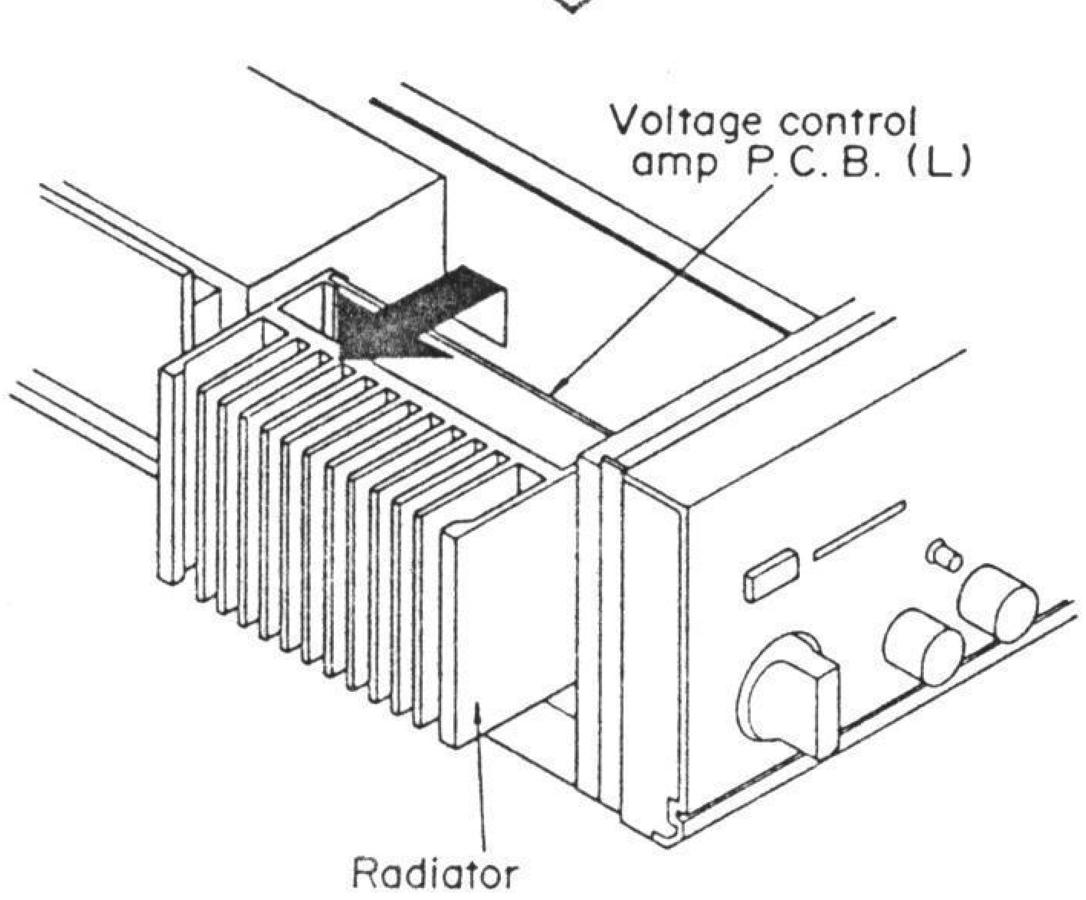


Fig. 2

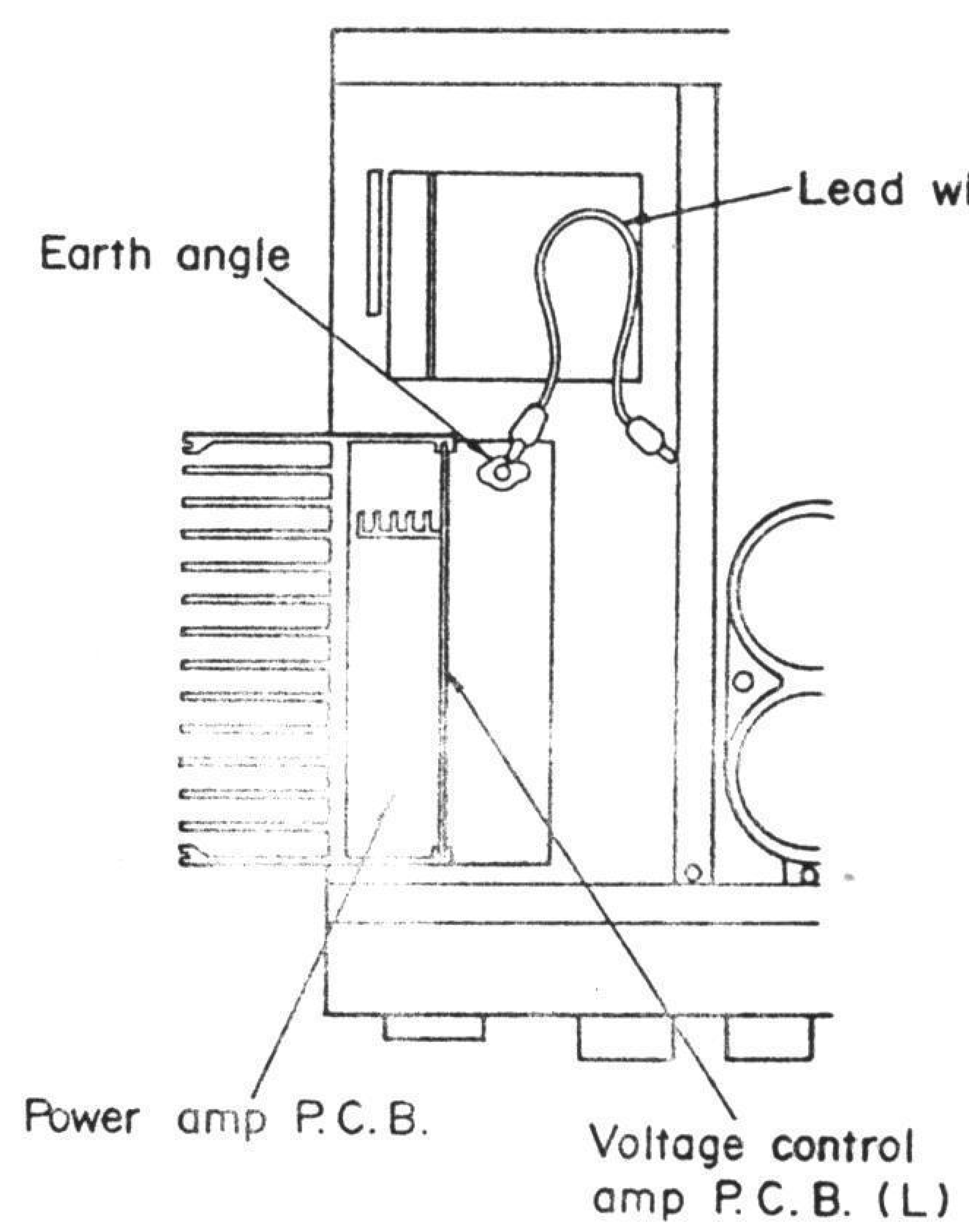


Fig. 3

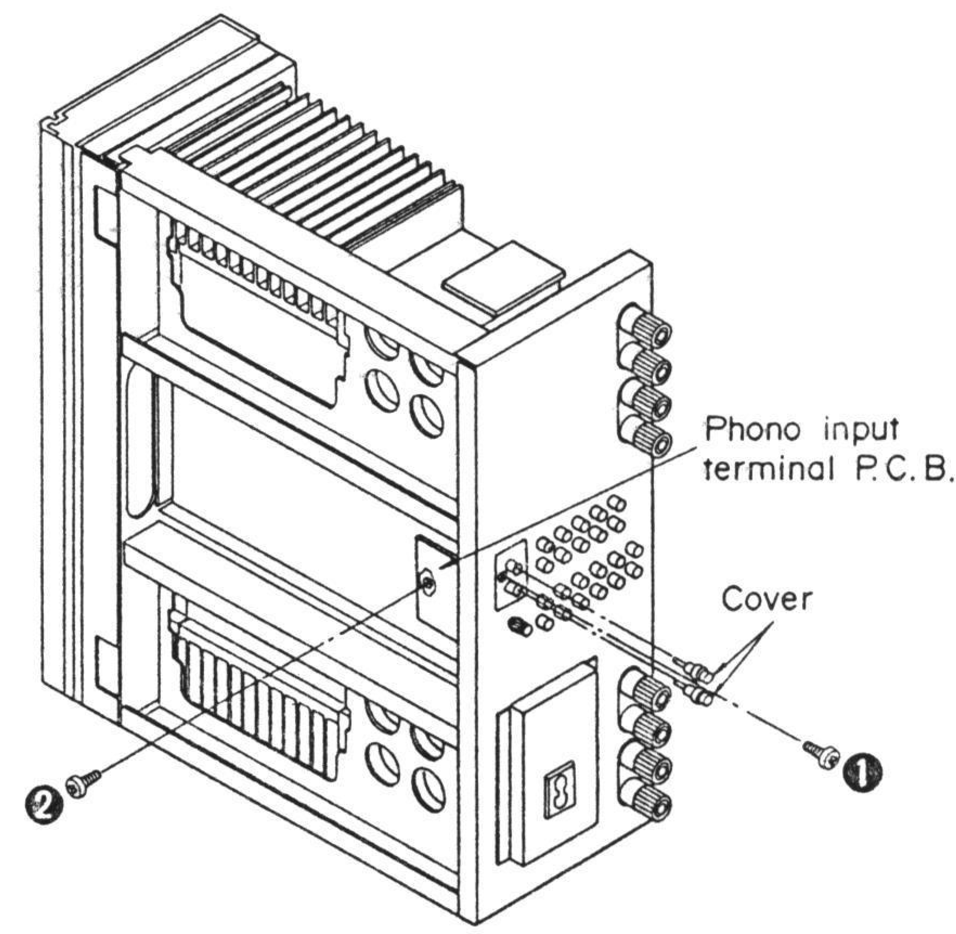
1. Remove the 8 screws (❶~❽).
2. Pull out the radiator and voltage control amp P.C.B. in the direction of the arrow.

Note:

- Take care the connectors.
- Connect the ground terminal of power amp P.C.B. and chassis by lead wire. Figure 2 and figure 3 show the left (Lch) voltage control amp P.C.B. Remove the right (Rch) voltage control amp P.C.B. in the same way.

Ref. No. 24	Removal of the phono input terminal P.C.B.
Procedure 1→21→24	

1. Release the 2 phone terminal covers.
2. Remove the 2 screws (❶, ❷).



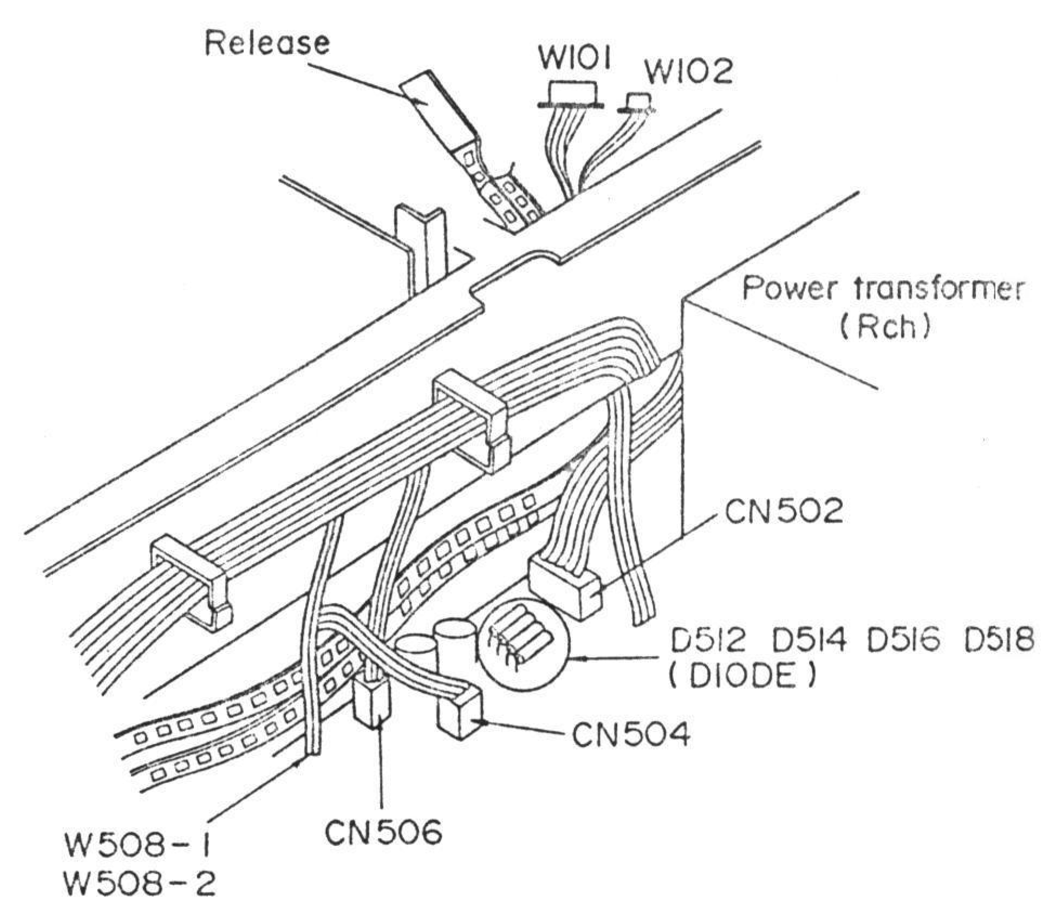
Ref. No. 25	About the wire processing
Procedure 1→2→4→25	

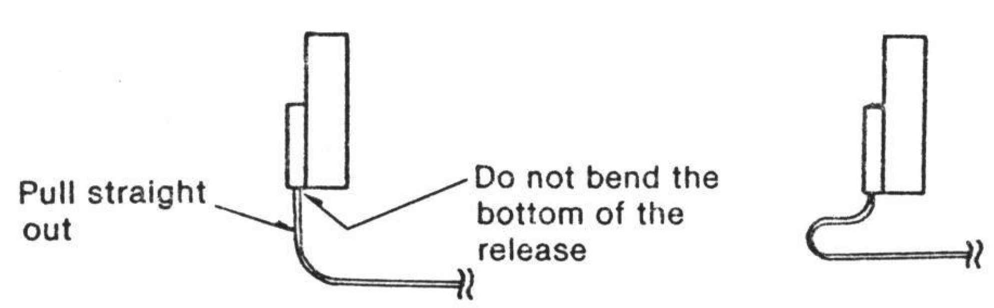
• When processing the wire after the repair finish, do as shown.

1. Insert the wires of twin capacitors into the clamper.
2. The release (INPUT/REC switch) should be routed to the inside of the CN504 lead wires. Also, do not clamp the release.
3. Arrange the various lead wires so that they are not touching the rectifier diode.

Note:

Be especially careful not to bend or forcefully pull the bottom of the release (INPUT/REC switch); doing so could cause a malfunction.





(NG)

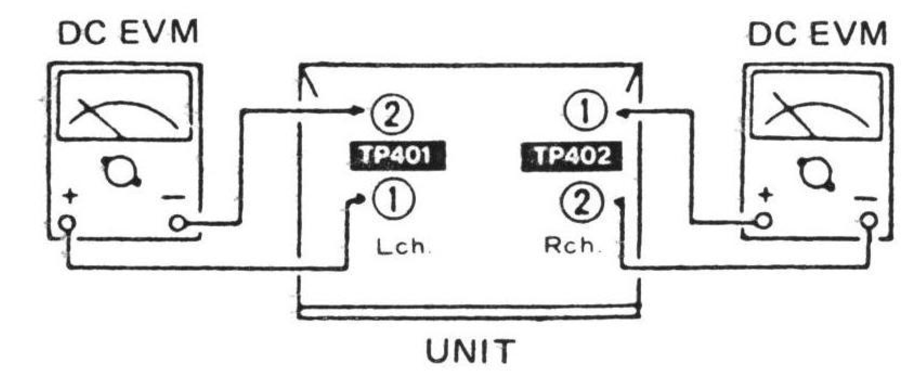
MEASUREMENTS AND ADJUSTMENTS

Control positions and equipment used.

- Volume knob . . . . ∞ (Minimum)
- Speaker selector . . . . off
- AC and DC electronic voltmeter (EVM)

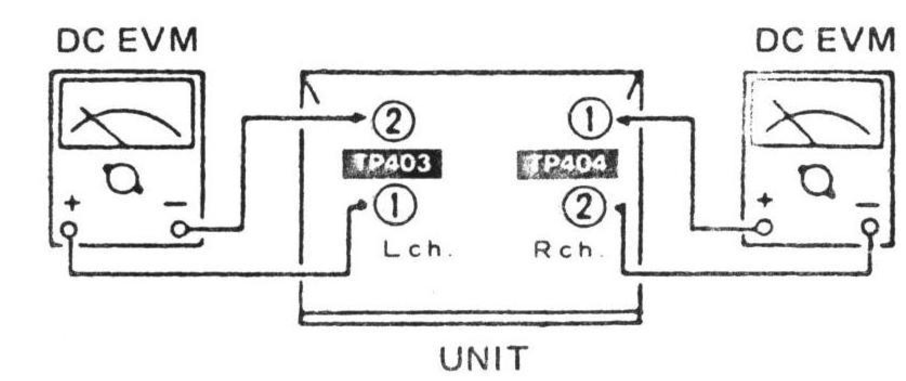
(1) VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (V) amp. adjusting volumes (**VR401, VR402**) counter-clockwise.
3. Turn ON the set when it is cold, and about 5 ~ 7 sec. later, adjust **VR401** and **VR402** 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.**).

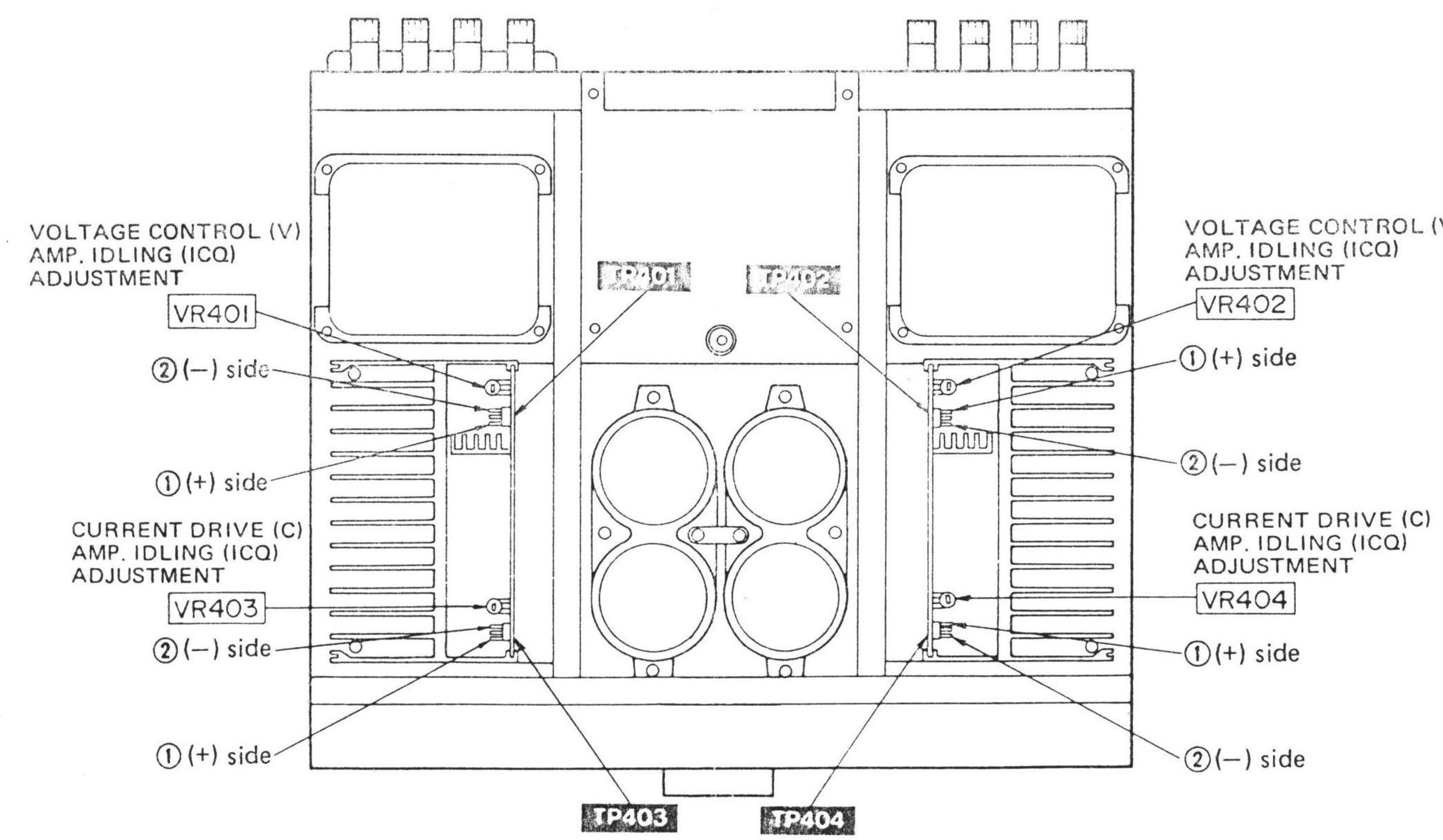


(2) CURRENT DRIVE (C) AMP. IDLING (ICQ) ADJUSTMENT

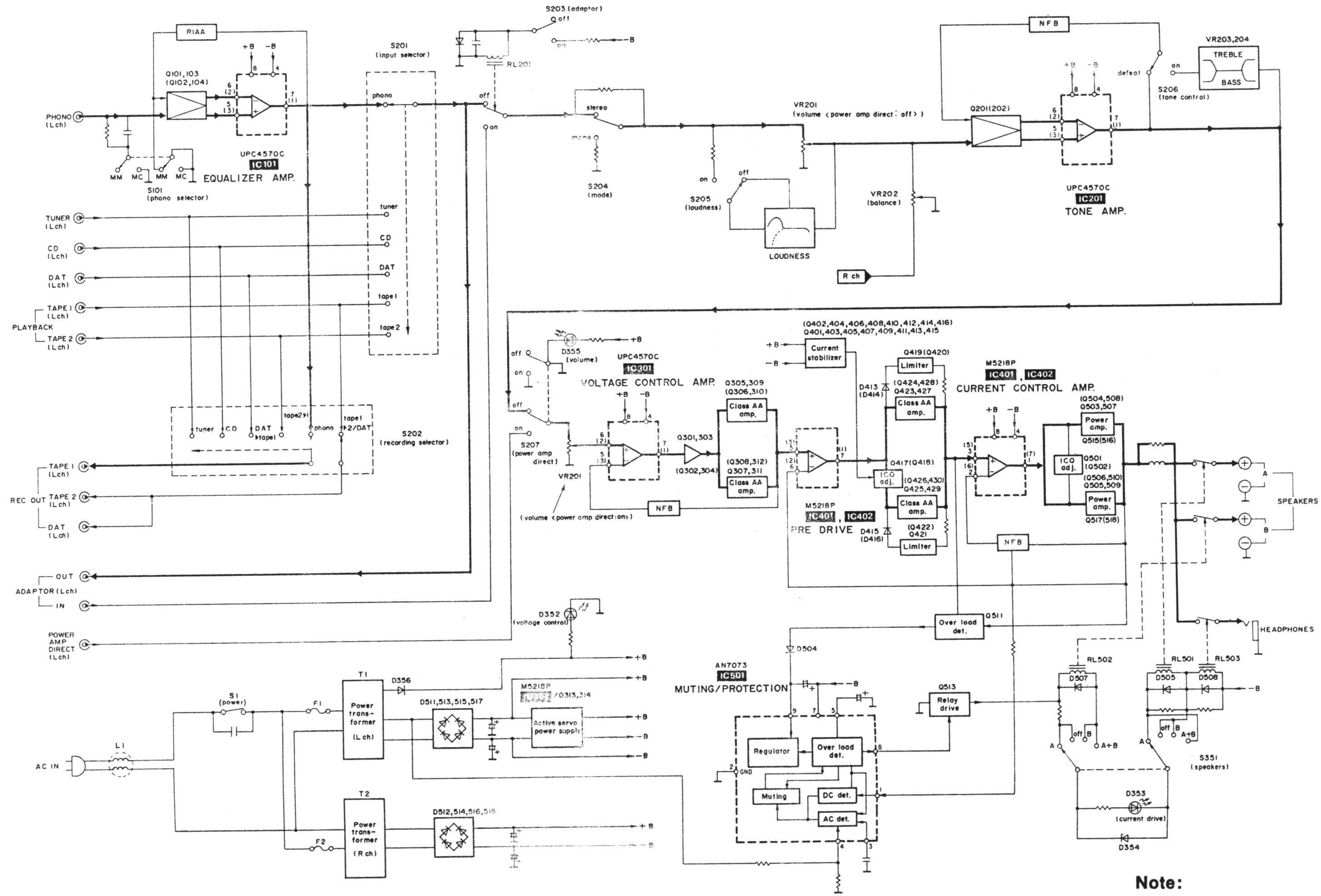
1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (C) amp. adjusting volumes (**VR403, VR404**) counter-clockwise.
3. Turn ON the set when it is cold, and the "VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT" later, adjust **VR403** and **VR404** 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



BLOCK DIAGRAM



Note: ⟶ Audio signal

SCHEMATIC DIAGRAM (Parts list on pages 32~35.)

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

Notes:

- **S1** : Power switch in "on" position.
- **S101** : Phono cartrige selector (phono selector) switch.
- **S201** : Input selector (input selector) switch.
- **S202** : Recording output selector (recording selector) switch.
- **S203** : Adaptor (adaptor) switch.
- **S204** : Mode selector (mode) switch.
- **S205** : Loudness (loudness) switch.
- **S206** : Tone control (tone control) switch.
- **S[illegible]** : Power amplifier [illegible] (power amp direct) switch.
- **S[illegible]1** : Speaker selector (speakers) switch.

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
  Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

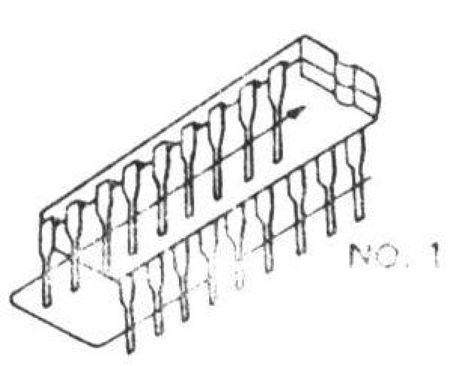
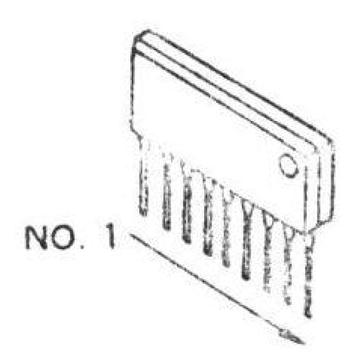
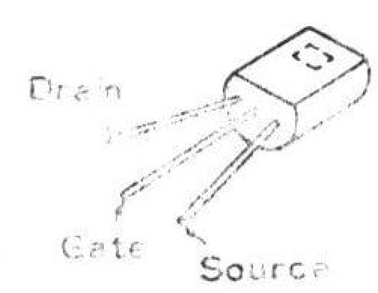
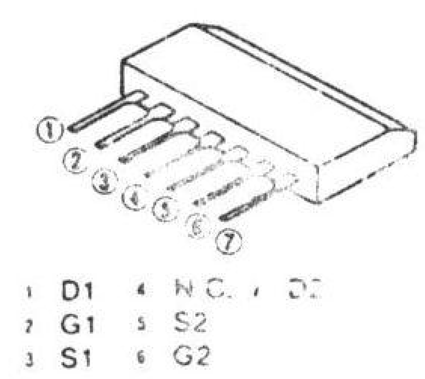
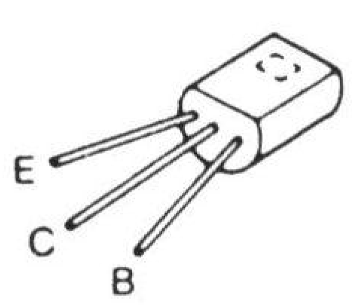
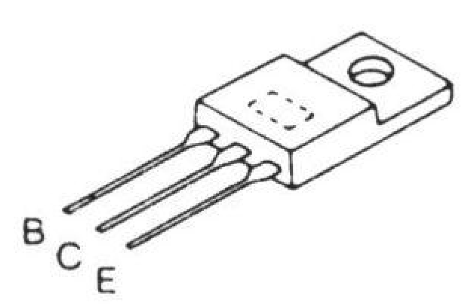
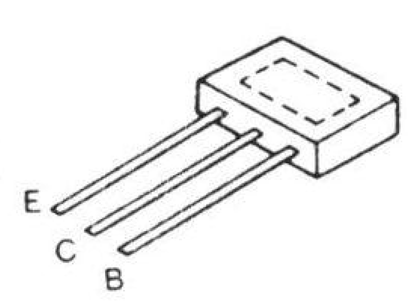
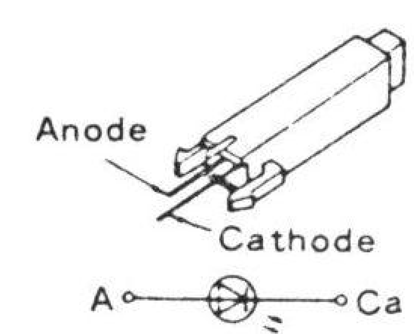
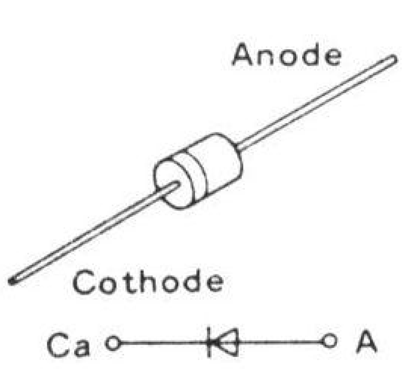
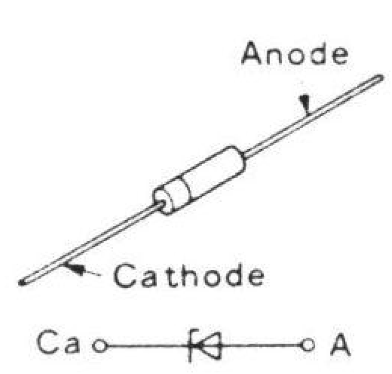
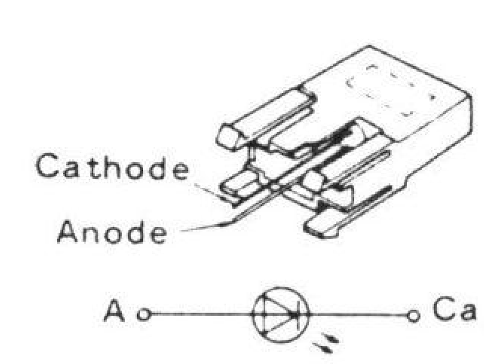
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- ▬▬ / ▬ ▬ ▬ : Positive voltage lines and negative voltage lines.
- ░░░▷ : PHONO signal lines (Lch).
- ░ ░ ░▷ : Recording signal lines.

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 pins of IC or LSI with fingers directly.

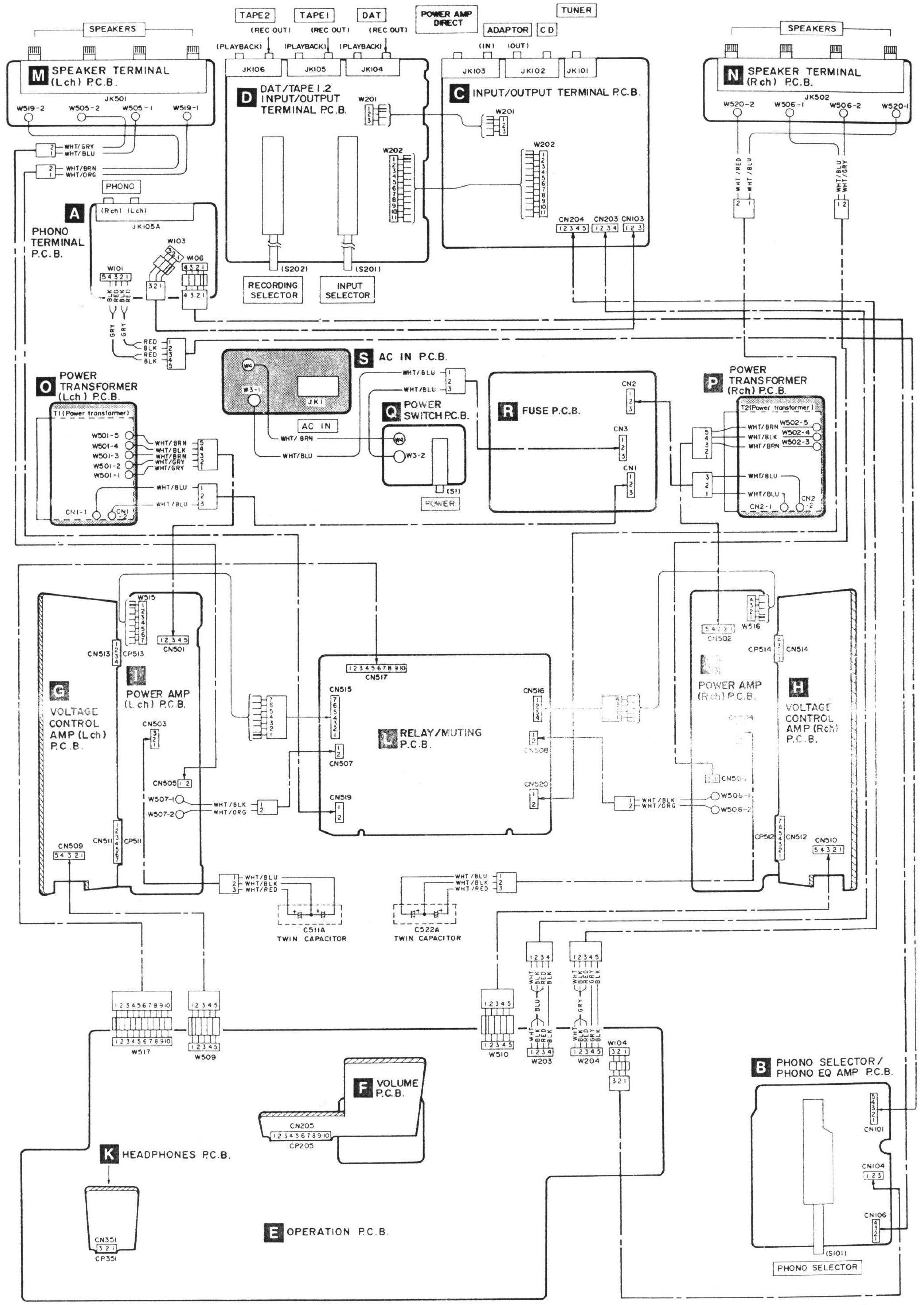
TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

 M5218P / UPC4570C — 8 Pin	AN7073 — 9 Pin 	2SK369GR 	2SK389BG 
 2SA992EFPTA 2SA1123RSTTA 2SB1036RSTTA 2SC2631RSTTA 2SC1815BGL	2SA1535AQRS 2SC3944AQRS 	2SA1309AQSTA 2SC3311AQSTA 	LN018305PH 
 P300DLF 1SR35200TB MA165TA MA167TA MA29WATA	 MA4082MTA MA4160MTA MA4030MTA MA4051MTA MA4180MTA		LN014472PH LN018472PH 


A PHONO TERMINAL CIRCUIT
B PHONO SELECTOR/PHONO EQ AMP CIRCUIT
C INPUT/OUTPUT TERMINAL CIRCUIT
D DAT/TAPE1·2 INPUT/OUTPUT TERMINAL CIRCUIT
E OPERATION CIRCUIT
F VOLUME CIRCUIT
F VOLUME CIRCUIT
G VOLTAGE CONTROL AMP(Lch) CIRCUIT
H VOLTAGE CONTROL AMP(Rch) CIRCUIT
I POWER AMP(Lch) CIRCUIT
J POWER AMP(Rch) CIRCUIT
K HEADPHONES CIRCUIT
L RELAY/MUTING CIRCUIT
M SPEAKER TERMINAL (Lch) CIRCUIT
N SPEAKER TERMINAL (Rch) CIRCUIT
O POWER SWITCH CIRCUIT
P AC IN CIRCUIT
Q POWER TRANSFORMER(Lch) CIRCUIT
P POWER TRANSFORMER(Rch) CIRCUIT
R FUSE CIRCUIT
IC101 UPC4570C PHONO EQ AMP
Q101~104 2SK369GR DIFFERENTIAL AMP
IC201 UPC4570C TONE AMP
IC301 UPC4570C VOLTAGE AMP
IC302 M5218P EXTEND ACTIVE SERVO
IC501 AN7073 PROTECTION (MUTING)
Q313 2SC3944AQRS EXTEND ACTIVE SERVO
Q314 2SA1535AQRS EXTEND ACTIVE SERVO
Q513 2SA992EFPTA RELAY DRIVE
Q305,306 2SA1123RSTTA CLASS AA AMP
Q309,310 2SC2631RSTTA CLASS AA AMP
Q201,202 2SK389BG DIFFERENTIAL AMP
Q301,302 2SC2631RSTTA LIMITER
Q303,304 2SA1123RSTTA LIMITER
Q307,308 2SC2631RSTTA CLASS AA AMP
Q311,312 2SA1123RSTTA CLASS AA AMP
IC401 M5218P VOLTAGE/CURRENT MIRROR
IC402 M5218P VOLTAGE/CURRENT MIRROR
Q401,407,409,415 2SA1123RSTTA PRE DRIVE
Q403,405,411,413 2SC2631RSTTA PRE DRIVE
Q417 2SC1815BGL VOLTAGE CONTROL AMP (ICQ ADJ.)
Q419 2SC3311AQSTA LIMITER
Q421 2SA1309AQSTA LIMITER
Q423 2SC2631RSTTA CLASS AA AMP
Q425 2SA1123RSTTA CLASS AA AMP
Q427 2SC3944AQRS CLASS AA AMP
Q429 2SA1535AQRS CLASS AA AMP
Q402,408,410,416 2SA1123RSTTA PRE DRIVE
Q404,406,412,414 2SC2631RSTTA PRE DRIVE
Q418 2SC1815BGL VOLTAGE CONTROL AMP (ICQ ADJ.)
Q420 2SC3311AQSTA LIMITER
Q422 2SA1309AQSTA LIMITER
Q424 2SC2631RSTTA CLASS AA AMP
Q426 2SA1123RSTTA CLASS AA AMP
Q428 2SC3944AQRS CLASS AA AMP
Q430 2SA1535AQRS CLASS AA AMP
Q501 2SC1815BGL CURRENT DRIVE (ICQ ADJ.)
Q503 2SC3944AQRS DRIVE AMP
Q505 2SA1535AQRS DRIVE AMP
Q502 2SC1815BGL CURRENT DRIVE (ICQ ADJ.)
Q504 2SC3944AQRS DRIVE AMP
Q506 2SA1535AQRS DRIVE AMP
Q511 2SB1036RSTTA OVER LOAD DET.
Q507,515 2SC3182R POWER AMP
Q509,517 2SA1265R POWER AMP
Q512 2SB1036RSTTA OVER LOAD DET.
Q508,516 2SC3182R POWER AMP
Q510,518 2SA1265R POWER AMP
JK501 SPEAKERS (Lch)
JK502 SPEAKERS (Rch)
S201 (INPUT SELECTOR)
S202 (RECORDING SELECTOR)
C530 (TWIN CAPACITOR)
C524 (TWIN CAPACITOR)

PRINTED CIRCUIT BOARDS

WIRING CONNECTION DIAGRAM



■ EXPLODED VIEW

REPLACEMENT PARTS LIST

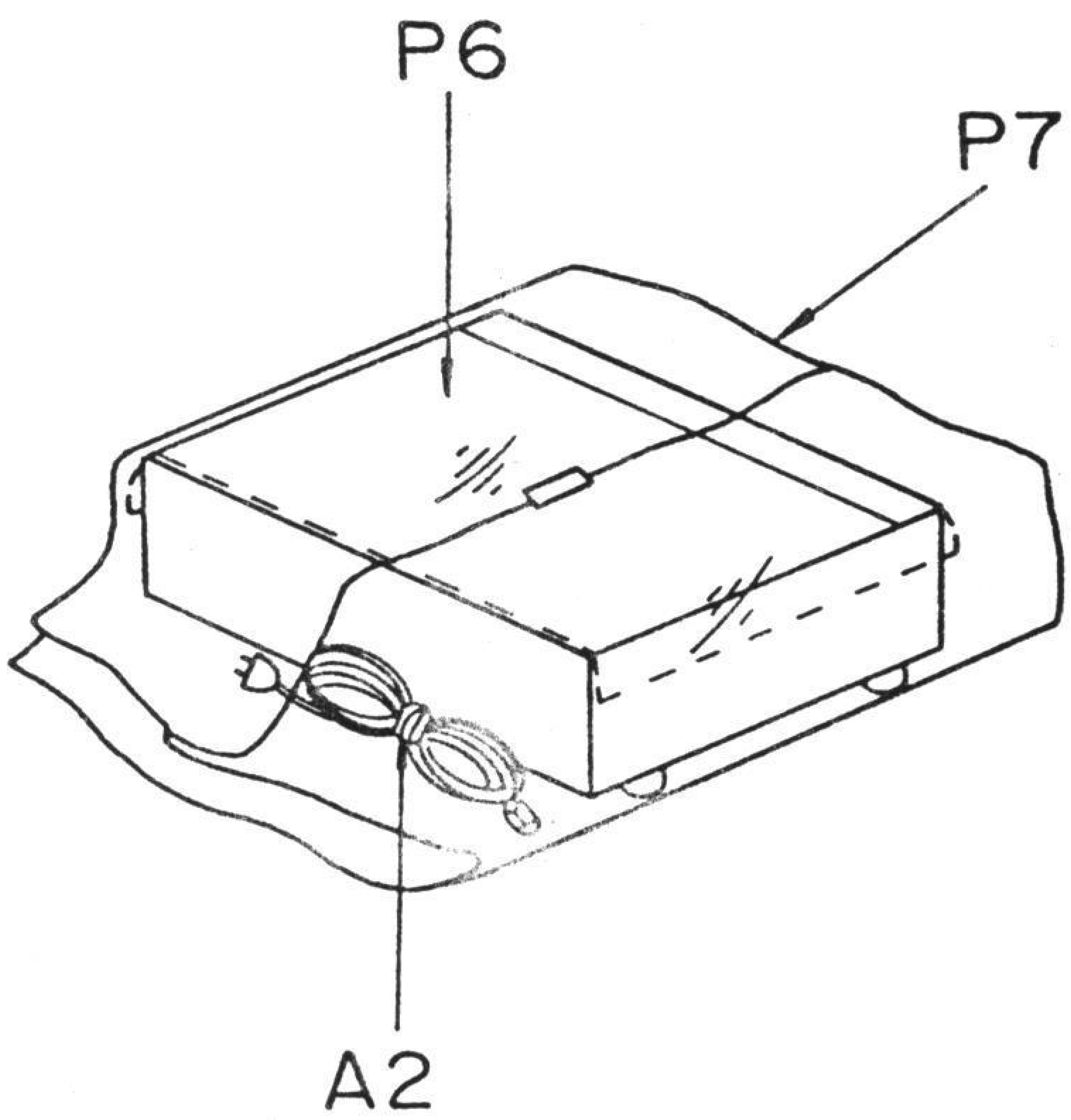
Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for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

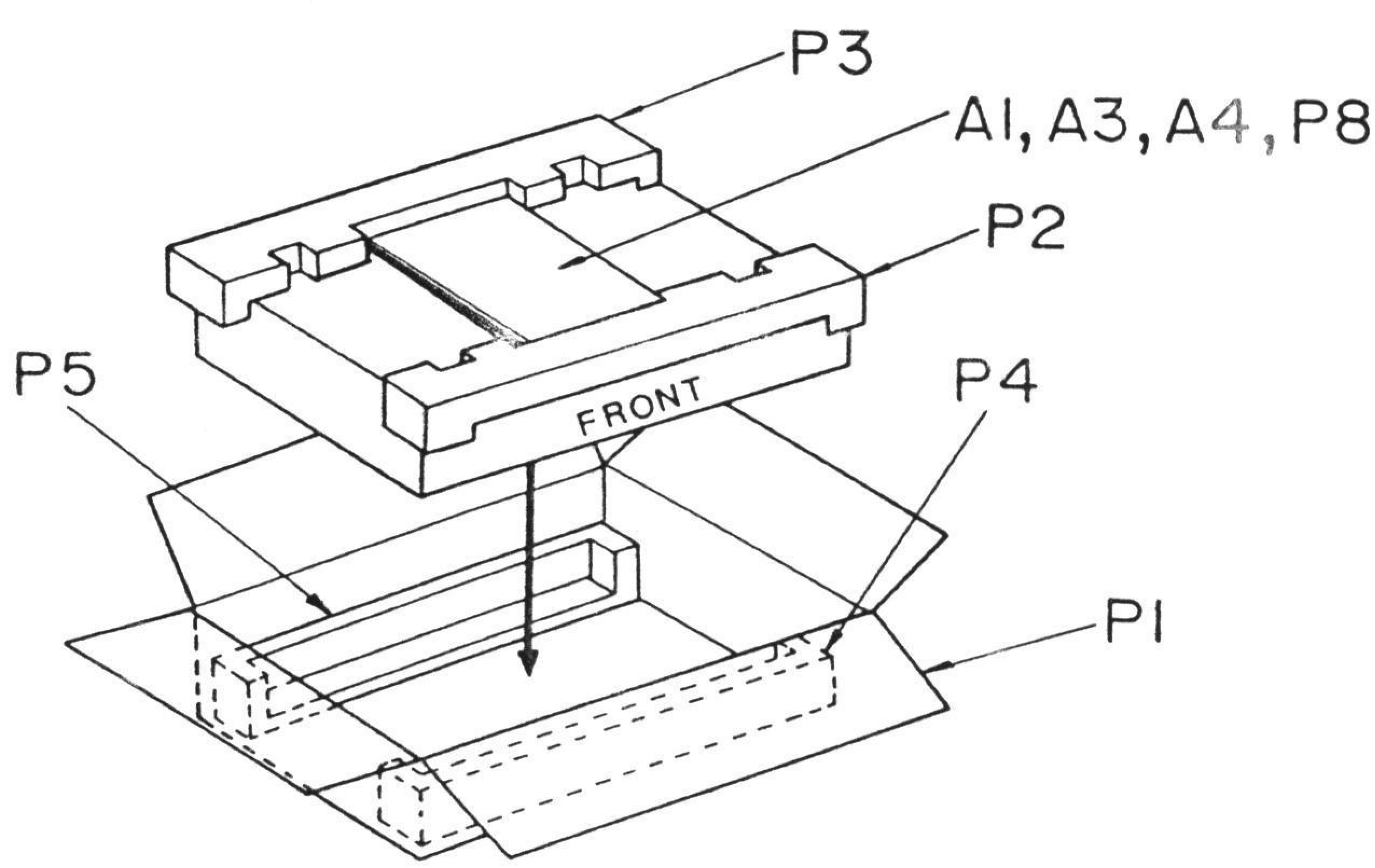
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RGW0058-K	KNOB, PHONO SELECTOR	
2	RGW0059-K	KNOB, TONE CONTROL	
3	RGW0060-K	KNOB, VOLUME	
4	RGW0061-1K	KNOB, SELECTOR	
5	RFKKUV900E-K	CABINET ASS'Y	
7	SNE2129-3	SCREW	
8	XTBS3+8JFZ1	SCREW	
9	XYN3+F8	SCREW	
10	RGR0069B-A	SUB REAR PANEL	
11	RGR0070D-A	REAR PANEL	(E)
11	RGR0070D-B	REAR PANEL	(EB)
11	RGR0070D-C	REAR PANEL	(EG)
12	RGU0281	KNOB, DIRECT	
13	RGU0282	KNOB, TONE SELECTOR	
14	RGU0283-1K	KNOB, POWER	
15	RFKJUV900EAK	CHASSIS ASS'Y	
15-1	SKL306	FOOT	
15-2	XTB4+12FFZ	SCREW	
15-3	SHG6405	FOOT RUBBER	
15-4	SMC1138-2	SHIELD PLATE	
15-5	XTB3+8JFZ	SCREW	
16	RMA0249	FRONT ANGLE	
17	RMA0250	SIDE ANGLE(L)	
18	RMA0251	SIDE ANGLE(R)	
19	RMG0013	RUBBER, TRANSFORMER	
20	RFKJUMA10E-A	TRANS CHASSIS ASS'Y	
21	RMQ0111	RADIATOR ANGLE	
22	RMQ0112-1	CAPACITOR ANGLE	
23	RMQ0113	ANGLE(R)	
24	RMQ0114	ANGLE(L)	
25	RSQ0013	RELEASE(REC)	
26	RMY0036	SUB RADIATOR	
27	RMZ0079	INSULATION SHEET	
28	RSC0077-1	SHIELD CASE	
29	RSC0078-1	DAC CASE	
30	RSQ0009-1	RELEASE(INPUT)	
31	SNE2117-1	SCREW	
32	RFKGUV900E-K	FRONT PANEL ASS'Y	
33	RFKNUV900AK	FRONT GLILLE ASS'Y A	
34	RFKNUV900BK	FRONT GLILLE ASS'Y B	
35	RFKNUV900CK	FRONT GLILLE ASS'Y C	
36	RGK0207-2K	SIDE ORNAMENT(L)	
37	RGK0208-1K	SIDE ORNAMENT(R)	
38	RMC0065	EARTH SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
39	XTB3+8JFZ	SCREW	
40	SHE187-2	P.C.B. SUPPORT	
42	SHR301	CORD CLAMPER	
43	SHR415	LATCH	
44	SHR9814	CORD CLAMPER	
46	SJS9231A	AC INLET COVER	
47	SNE4021-1	NUT	
48	SNE4065	NUT	
49	XTB3+20JFZ	SCREW	
50	XNS8	NUT	
51	XTB4+10FFZ	SCREW	
52	RFKFUV900AK	BOOST BAR ASS'Y 1	
53	RFKFUV900BK	BOOST BAR ASS'Y 2	
54	RSC0115	SHIELD PLATE	
55	RSC0142	SHIELD PLATE	
56	SNE2123	ERATH TERMINAL	
57	RSC0158	SHIELD PLATE	
58	RSC0161	SHIELD PLATE	
59	XTB4+8FFZ	SCREW	
61	XTB4+20FFZ	SCREW	
62	SJT783	PIN	
63	RJS3303	CONNECTOR(3P)	
63	RJS1A3202	CONNECTOR(2P)	
63	RJS1A3404	CONNECTOR(2P)	
63	RJS1A3505	CONNECTOR(5P)	
64	RJT053	PIN	
65	SJS5431	CONNECTOR(4P)	
65	SJS5529	CONNECTOR(5P)	
65	SJS5337	CONNECTOR(3P)	
66	SJT785	PIN	
67	SJS5425	CONNECTOR(4P)	
67	SJS5715	CONNECTOR(7P)	
67	SJS5331	CONNECTOR(3P)	
67	SJS5523	CONNECTOR(5P)	
67	SJS5025	CONNECTOR(10P)	
		PACKING MATERIAL	
P1	RPG0676	PACKING CASE	
P2	RPN0238A-4	PAD(FRONT/UPPER)	
P3	RPN0238B-4	PAD(BACK/UPPER)	
P4	RPN0238C-4	PAD(FRONT/LOWER)	
P5	RPN0238D-4	PAD(BACK/LOWER)	
P6	SPH223	KRAFT PAPER	
P7	SPH6434	PROTECTION SHEET	
P8	SPB1061	PROTECTION BAG(F.B.)	

Ref. No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	RFKSV900E-K	INST. MANUAL ASS'Y	(E)
A1	RQT0723-D	INSTRUCTION MANUAL	(EG)
A1	RQT0724-B	INSTRUCTION MANUAL	(EB)
A2	SFDAC05E03	POWER CORD	⚠(E, EG)
A2	SJA193	POWER CORD	⚠(EB)
A3	RQA0013	WARRANTY CARD	
A4	RQCB0169	SERVICENTER LIST	

PACKING





REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ 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
		INTEGRATED CIRCUIT(S)	
IC101	UPC4570C	EQUALIZER AMP	
IC201	UPC4570C	TONE AMP	
IC301	UPC4570C	VOLTAGE AMP	
IC302	M5218P	EXTEND ACTIVE SERVO	
IC401, 402	M5218P	VOLTAGE/CURRENT MIRROR	
IC501	AN7073	PROTECTION	
		TRANSISTOR(S)	
Q101-104	2SK369GR	TRANSISTOR	
Q201, 202	2SK389BG	TRANSISTOR	
Q301, 302	2SC2631RSTTA	TRANSISTOR	
Q303-306	2SA1123RSTTA	TRANSISTOR	
Q307-310	2SC2631RSTTA	TRANSISTOR	
Q311, 312	2SA1123RSTTA	TRANSISTOR	
Q313	2SC3944AQRS	TRANSISTOR	
Q314	2SA1535AQRS	TRANSISTOR	
Q401, 402	2SA1123RSTTA	TRANSISTOR	
Q403-406	2SC2631RSTTA	TRANSISTOR	
Q407-410	2SA1123RSTTA	TRANSISTOR	
Q411-414	2SC2631RSTTA	TRANSISTOR	
Q415, 416	2SA1123RSTTA	TRANSISTOR	
Q417, 418	2SC1815BG	TRANSISTOR	
Q419, 420	2SC3311A-Q	TRANSISTOR	
Q421, 422	2SA1309A-R	TRANSISTOR	
Q423, 424	2SC2631RSTTA	TRANSISTOR	
Q425, 426	2SA1123RSTTA	TRANSISTOR	
Q427, 428	2SC3944AQRS	TRANSISTOR	
Q429, 430	2SA1535AQRS	TRANSISTOR	
Q501, 502	2SC1815BG	TRANSISTOR	
Q503, 504	2SC3944AQRS	TRANSISTOR	
Q505, 506	2SA1535AQRS	TRANSISTOR	
Q507, 508	2SC3182R	TRANSISTOR	
Q509, 510	2SA1265R	TRANSISTOR	
Q511, 512	2SB1036R	TRANSISTOR	
Q513	2SA992EFPTA	TRANSISTOR	
Q515, 516	2SC3182R	TRANSISTOR	
Q517, 518	2SA1265R	TRANSISTOR	
		DIODE(S)	
D101, 102	MA165	DIODE	
D201	MA165	DIODE	
D301-308	MA165	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D309-314	MA29WA	DIODE	
D315-318	MA29WA	DIODE	
D321, 322	MA4180-M	DIODE	
D325-328	MA185	DIODE	
D323	MA165	DIODE	
D329, 330	MA4110MTA	DIODE	
D351	MA4051MTA	DIODE	
D352	LN014472PH	L. E. D.	
D353	LN018472PH	L. E. D.	
D354	MA4030MTA	DIODE	
D355	LN018305PH	L. E. D.	
D356	1SR35200TB	DIODE	⚠
D401-404	MA165	DIODE	
D405-408	MA29WA	DIODE	
D409-412	MA4082MTA	DIODE	
D413-416	MA165	DIODE	
D501, 502	MA167	DIODE	
D503	MA4160M	DIODE	
D504	MA167	DIODE	
D505	MA165	DIODE	
D507, 508	MA165	DIODE	
D511-518	P300DLF	DIODE	⚠
		VARIABLE RESISTOR(S)	
VR201	RRV27J01A	VOLUME	
VR202	EWHFDA014G15	BALANCE	
VR203, 204	EWC2XA000C15	BASS/TREBLE	
VR401, 402	EVNM0AA00B52	VOLTAGE CONTROL ADJ.	
VR403, 404	EVNM0AA00B52	CURRENT DRIVE ADJ.	
		THERMISTOR(S)	
TH401, 402	ERTD2WHL104S	THERMISTOR	
TH501, 502	ERTD2WHL104S	THERMISTOR	
		COIL(S)	
L1	SLQZ650MH49	COIL	⚠
L101-104	RLQX101K-V	COIL	
L501, 502	SLQY07G-40	COIL	
L503, 504	SLQY18G-10	COIL	
		TRANSFORMER(S)	
T1, 2	RFKCUV900E-K	POWER TRANSFORMER	⚠ (E, EG)
T1, 2	RFKCUV900EBK	POWER TRANSFORMER	⚠ (EB)

Ref. No.	Part No.	Part Name & Description	Remarks
		FUSE (S)	
F1, 2	XBA2C20TB0	FUSE, 2A	⚠
		SWITCH(ES)	
S1	ESB8279V	POWER	⚠
S101	RSR2D001	PHONO SELECTOR	
S201	RSS6B001	INPUT SELECTOR	
S202	RSS6L001	RECORDING SELECTOR	
S203	ESB68107	ADAPTOR	
S204	ESB68107	MODE	
S205	ESB68107	LOUDNESS	
S206	ESB68107	TONE CONTROL	
S207	ESB68109	POWER AMP DIRECT	
S351	RSR4B002	SPEAKERS	
		GND PART(S)	
AK1-4	EYF52BC	FUSE HOLDER	
AK401, 402	SUS227	GND SPRING	
AK501, 502	SNE1004-1	GND PLATE	
AK503, 504	SUS227	GND SPRING	
		SHIELD PART(S)	
AZ701	RSQ0007-1	SHIELD PART	
		CONNECTOR(S) AND SOCKET(S)	
CN1-3	RJP1A4204-1	CONNECTOR(3P)	
CN101	SJT3513	CONNECTOR(5P)	
CN103	SJT3319	CONNECTOR(3P)	
CN104	SJT3321	CONNECTOR(3P)	
CN106	SJT3417	CONNECTOR(4P)	
CN203	SJT3415	CONNECTOR(4P)	
CN204	SJT3511	CONNECTOR(5P)	
CN205	RJU003K010M1	SOCKET(10P)	
CN351	SJT30345JQ	CONNECTOR(3P)	
CN501, 502	RJP1A3505	CONNECTOR(5P)	
CN503, 504	RJP1A3303	CONNECTOR(3P)	
CN505-508	RJP1A3202	CONNECTOR(2P)	
CN509, 510	SJT3511	CONNECTOR(5P)	
CN511, 512	SJT30745JQ	CONNECTOR(7P)	
CN513, 514	SJT30445JQ	CONNECTOR(4P)	
CN515	SJT3709	CONNECTOR(7P)	
CN516	SJT3415	CONNECTOR(4P)	
CN517	SJT3005	CONNECTOR(10P)	
CN519, 520	RJP1A4103	CONNECTOR(3P)	
CP205	RJT003K010M1	CONNECTOR(10P)	
CP351	SJS50378JQ	SOCKET(3P)	
CP511, 512	SJS50778JQ	SOCKET(7P)	
CP513, 514	SJS50478JQ	SOCKET(4P)	
		RELAY	
RL201	RSYG5A237P12	RELAY	
RL501, 502	RSY0004-1	RELAY	
RL503	RSYG5A237P12	RELAY	
		JACK(S)	
JK1	SJS9231-1B	JACK, AC IN	⚠
JK101	SJF3068N	JACK, TUNER	
JK102	SJF3069-4N	JACK, CD/ADPT OUT	
JK103	SJF3069N	JACK, ADPT IN/P. A. D	
JK104	SJF3069N	JACK, DAT	
JK105	SJF3069N	JACK, TAPE 1	
JK105A	SJF3061-17N	JACK, PHONO	
JK106	SJF3069N	JACK, TAPE2	
JK351	SJJD19	JACK, HEADPHONE	
JK501, 502	RJH4403	JACK, SPEAKERS	

RESISTORS & CAPACITORS

Notes : * Capacity valuse 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
		RESISTORS
R101-104	ERDS2TJ102	1/4W 1K
R105, 106	ERDS2TJ473	1/4W 47K
R107, 108	ERDS2TJ221	1/4W 220
R109, 110	ERDS2TJ220T	1/4W 22
R111-116	ERDAS3G272T	1/4W 2.7K
R117, 118	ERDAS3G121	1/4W 120
R119, 120	ERDS2TJ120T	1/4W 12
R121, 122	ERDS2TJ101	1/4W 100
R123, 124	ERDAS3G121	1/4W 120
R125, 126	EROS2TKF5231	1/4W 5.23K
R127, 128	EROS2TKG6802	1/4W 68K
R129, 130	ERDS2TJ334	1/4W 330K
R131, 132	ERDAS3G561	1/4W 560
R201-222	ERDAS3G471T	1/4W 470
R231, 232	ERDS2TJ332	1/4W 3.3K
R233, 234	ERDAS3G222T	1/4W 2.2K
R235	ERDS2TJ824	1/4W 820K
R237, 238	ERDS2TJ223	1/4W 22K
R239, 240	ERDS2TJ183T	1/4W 18K
R241, 242	ERDAS3G472T	1/4W 4.7K
R243, 244	ERDAS3G124T	1/4W 120K
R245, 246	ERDAS3G561	1/4W 560
R247, 248	ERDS2TJ224T	1/4W 220K
R249-254	ERDAS3G472T	1/4W 4.7K
R255, 256	ERDS2TJ221	1/4W 220
R257, 258	ERDS2TJ224T	1/4W 220K
R259, 260	ERDS2TJ821	1/4W 820
R261, 262	ERDS2TJ472	1/4W 4.7K
R263, 264	ERDS2TJ392T	1/4W 3.9K
R265-268	ERDS2TJ223	1/4W 22K
R269, 270	ERDS2TJ102	1/4W 1K
R271, 272	ERDS2TJ562	1/4W 5.6K
R291	ERG2ANJP272S	2W 2.7K
R301, 302	ERDAS3G331T	1/4W 330
R303, 304	ERDS2TJ563	1/4W 56K
R305-312	ERDFS2VJ121T	1/4W 120
R313-316	ERDS2TJ563	1/4W 56K
R317-320	ERDFS2VJ121T	1/4W 120
R321, 322	ERDFS2VJ330T	1/4W 33
R323-326	ERDFS2VJ150T	1/4W 15
R327, 328	ERDAS3G273T	1/4W 27K
R329-332	ERDAS3G102T	1/4W 1K
R335, 336	ERDS2TJ153	1/4W 15K
R337	ERDS2TJ102	1/4W 1K
R339, 340	ERDS2TJ102	1/4W 1K
R341	ERDS2TJ823T	1/4W 82K

Ref. No.	Part No.	Values & Remarks
R343, 344	ERDS2TJ223	1/4W 22K
R345, 346	ERG2ANJP391S	2W 390
R347-350	ERDFS2VJ271T	1/4W 270
R351	ERDS1FJ151	1/2W 150 ⚠
R352, 353	ERDS2TJ151	1/4W 150
R354	ERDS2TJ331	1/4W 330
R355, 356	ERG1SJ222E	1W 2.2K
R401, 402	ERDAS3G121	1/4W 120
R403, 404	ERDS2TJ224T	1/4W 220K
R405-408	ERDAS3G103T	1/4W 10K
R409-412	ERDAS3G102T	1/4W 1K
R413-416	ERDFS2VJ101T	1/4W 100
R417-420	ERDS2TJ222	1/4W 2.2K
R421-424	ERDFS2VJ561T	1/4W 560
R425, 426	ERDS2TJ104	1/4W 100K
R427-432	ERDFS2VJ222T	1/4W 2.2K
R433, 434	ERDFS2VJ332T	1/4W 3.3K
R435, 436	ERDS2TJ393	1/4W 39K
R437, 438	ERDFS2VJ102T	1/4W 1K
R439-442	ERDS2TJ223	1/4W 22K
R443-446	ERDFS2VJ101T	1/4W 100
R447, 448	ERDFS2VJ561T	1/4W 560
R449-452	ERDFS2VJ2R2T	1/4W 2.2
R453, 454	ERDFS2VJ681T	1/4W 680
R455-458	ERDFS2VJ121T	1/4W 120
R459-462	ERDFS2VJ332T	1/4W 3.3K
R463, 464	ERDFS2VJ101T	1/4W 100
R465, 466	ERDFS2VJ102T	1/4W 1K
R467, 468	ERDFS2VJ681T	1/4W 680
R469, 470	ERDFS2VJ1R0T	1/4W 1
R471-474	ERDS1FVJ100T	1/2W 10 ⚠
R501, 502	ERDFS2VJ332T	1/4W 3.3K
R503, 504	ERDS2TJ103	1/4W 10K
R505-508	ERDFS2VJ6R8T	1/4W 6.8
R509-512	ERDFS2VJ681T	1/4W 680
R513, 514	ERDFS2VJ331T	1/4W 330
R515-518	ERDFS2VJ2R2T	1/4W 2.2
R519, 520	ERDS1FVJ100T	1/2W 10 ⚠
R521-524	RRECMKR22SC	5W 0.22
R525-528	ERDS1FVJ100T	1/2W 10 ⚠
R529, 530	ERDFS2VJ271T	1/4W 270
R531, 532	ERDS2TJ153	1/4W 15K
R533, 534	ERDFS2VJ472T	1/4W 4.7K
R535	ERDS2TJ473	1/4W 47K
R536	ERDS2TJ563	1/4W 56K
R537	ERDS2TJ153	1/4W 15K
R538	ERDS2TJ103	1/4W 10K
R539	ERDS2TJ563	1/4W 56K
R540	ERDS1FVJ682T	1/2W 6.8K ⚠

Ref. No.	Part No.	Values & Remarks
R541	ERDS2TJ153	1/4W 15K
R543	ERDS2TJ223	1/4W 22K
R544, 545	ERG2SJ681H	2W 680
R546	ERDS1FVJ821T	1/2W 820 ⚠
R547-550	RREEMKR22SC	5W 0.22
R551, 552	ERG2SJ331H	2W 330
R555-558	RRECMKR22SC	5W 0.22
R561-564	ERDS1FVJ6R8T	1/2W 6.8 ⚠
R565-568	ERDFS2VJ2R2T	1/4W 2.2
R569-572	RREEMKR22SC	5W 0.22
		CAPACITORS
C1	ECKWKC103PF2	400V 0.01U ⚠
C103, 104	ECBT1H102KB5	50V 1000P
C107, 108	ECEA0JU332E	6.3V 3300U
C109, 110	ECQM1H222KV3	50V 2200P
C111, 112	ECQM1H392JZ	50V 3900P
C113, 114	ECQM1H103JZ	50V 0.01U
C115, 116	ECQM1H473JZ	50V 0.047U
C117, 118	ECA1HPXS010B	50V 1U
C119, 120	ECQM1H472JZ	50V 4700P
C121, 122	ECA1HPXS4R7B	50V 4.7U
C123, 124	ECBT1H270JU5	50V 27P
C125, 126	ECBT1H102KB5	50V 1000P
C127, 128	ECBT1H220JC5	50V 22P
C129, 130	ECBT1H121KB5	50V 120P
C131, 132	ECBT1H101KB5	50V 100P
C133	ECKR1H333ZF5	50V 0.033U
C201-222	ECBT1H181KB5	50V 180P
C231, 232	ECQM1H563JZ	50V 0.056U
C233, 234	ECBT1H330J5	50V 33P
C235, 236	ECBT1H820KB5	50V 82P
C237, 238	ECQM1H222KV3	50V 2200P
C239, 240	ECBT1H390J5	50V 39P
C241, 242	ECA1HPXS4R7B	50V 4.7U
C243, 244	ECA1CPXS220B	16V 22U
C245, 246	ECQV1H823JZ	50V 0.082U
C247, 248	ECQM1H153JZ	50V 0.015U
C249, 250	ECQM1H183JZ	50V 0.018U
C251, 252	ECQM1H182JZ	50V 1800P
C253, 254	ECKR1H103ZF5	50V 0.01U
C255	ECEA1EK100	25V 10U
C271, 272	ECKR1H151KB5	50V 150P
C301, 302	ECA1EPXS100B	25V 10U
C303, 304	ECBT1H151KB5	50V 150P
C305, 306	ECBT1H150JR5	50V 15P
C307, 308	ECBT1H151KB5	50V 150P
C309-312	ECCV2H680K	500V 68P

Ref. No.	Part No.	Values & Remarks
C313, 314	ECCD1H180KC	50V 18P
C315, 316	ECA0JPXS221B	6.3V 220U
C317-320	ECA2APXS010B	100V 1U
C321, 322	ECKT1H102KB	50V 1000P
C323, 324	ECKR1H103ZF5	50V 0.01U
C325	ECEA1EK100	25V 10U
C326	ECBT1H821KB5	50V 820P
C327, 328	ECEA1EK100	25V 10U
C329, 330	ECA1HPXS4R7B	50V 4.7U
C331, 332	ECA2APXS10[illegible]	100V 10U
C351	ECEA1EU101	25V 100U
C353, 354	ECKT1H102K[illegible]	50V 1000P
C401, 402	ECBT1H221KB5	50V 220P
C403-406	ECEA1EBZ220B	25V 22U

Ref. No.	Part No.	Values & Remarks
C407-410	ECA1EPXS470B	25V 47U
C411-414	ECA1EPXS100B	25V 10U
C415, 416	ECBT1H221KB5	50V 220P
C417, 418	ECKR1H103ZF5	50V 0.01U
C419-422	ECEA1HK010B	50V 1U
C423, 424	ECQM1H822JZ	50V 8200P
C425-428	ECA2APXS010B	100V 1U
C429-432	ECA0JPXS101B	6V 100U
C433, 434	ECBT1H331KB5	50V 330P
C435, 436	ECCD1H150KC	50V 15P
C501-504	ECBA1H681KB5	50V 680P
C505, 506	ECKR1H103ZF5	50V 0.01U
C507-510	ECQM1H683KV3	50V 0.068U
C511	ECEA0JU331B	6.3V 330U

Ref. No.	Part No.	Values & Remarks
C512	ECFR1E223KR	25V 0.022U
C513	ECEA0JK470	6.3V 47U
C514, 515	ECEA1EK4R7	25V 4.7U
C517-520	ECQM1H683KV3	50V 0.068U
C521-524	ECA2APXS101E	100V 100U
C527, 528	ECQE2104KS	125V 0.1U
C529, 530	ECKR1H103ZF5	50V 0.01U
C537, 538	ECEA1HK010B	50V 1U
C539-542	ECHR1H103JZ3	50V 0.01U
C543-550	ECQV1H823JZ3	50V 0.082U
C551A	ECED71M123T	71V 12000U
C551	ECKR1H102KB5	50V 1000P
C552A	ECED71M123T	71V 12000U
C552-554	ECKR1H102KB5	50V 1000P

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