

Service Manual

Stereo Integrated Amplifier

Amplifier



SU-Z750

SU-Z950

SU-Z750 SU-Z950

Color

(K) . . . Black Type

| Color | Areas |
|-------|-------------------|
| (K) | [M] . . . U.S.A. |
| (K) | [MC] . . . Canada |

System

SC-D120E SC-D130E

SPECIFICATIONS

[SU-Z750]

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output

20 Hz~20 kHz both channels driven
0.07% total harmonic distortion
100 W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.05% total harmonic distortion
105 W per channel (8 ohms)

Dynamic headroom 0.6 dB (8 ohms)
Total harmonic distortion
half power at 1 kHz 0.009% (8 ohms)
SMPTE intermodulation distortion 0.05% (8 ohms)

Frequency response

PHONO RIAA standard curve ± 0.8 dB
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
5 Hz~100 kHz, -3 dB

Input sensitivity

PHONO 0.3 mV (2.5 mV, IHF '66)
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
17 mV (150 mV, IHF '66)

S/N (IHF, A)

PHONO 76 dB (82dB, IHF '66)
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
80 dB (97 dB, IHF '66)

Maximum input voltage

PHONO 140 mV (150 mV, 1 kHz)

Input impedance

PHONO 47 kilohms
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
22 kilohms

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/EXT (REC OUT) 150 mV

Low frequency damping factor 30 (8 ohms)

Load impedance

MAIN or REMOTE 8~16 ohms
MAIN and REMOTE 8~16 ohms

■ GENERAL

Power consumption 365 W, 485 VA

Power supply AC 120V, 60 Hz

Dimensions (W×H×D) 430 × 119 × 280 mm
(16-15/16" × 4-11/16" × 11-1/32")

Weight 7.35 kg (16.2 lb.)

Note:

Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

(Specifications are subject to change without notice for further improvement.)

[SU-Z950]

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output

20 Hz~20 kHz both channels driven
0.07% total harmonic distortion
110 W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.05% total harmonic distortion
115 W per channel (8 ohms)

Dynamic headroom 0.6 dB (8 ohms)
Total harmonic distortion
half power at 1 kHz 0.009% (8 ohms)
SMPTE intermodulation distortion 0.05% (8 ohms)

Frequency response

PHONO RIAA standard curve ± 0.8 dB
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
5 Hz~100 kHz, -3 dB

Input sensitivity

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Technics

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Victoria Industrial Park
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LINE-UP OF COMPONENTS

| | SC-D130E | SC-D120E | SC-D110 |
|---------------------------------------|----------|----------|----------|
| Stereo Integrated Amplifier | SU-Z950 | SU-Z750 | SU-Z550 |
| Quartz Synthesizer FM/AM Stereo Tuner | ST-Z550 | ST-Z550 | ST-Z550 |
| Automatic Turntable System | SL-D250U | SL-B250U | SL-B250U |
| Stereo Double Cassette Deck | RS-D550W | RS-D550W | RS-D550W |
| Stereo Graphic Equalizer | SH-Z250 | SH-Z250 | — |
| Hi-Fi Speaker Systems | SB-2580 | SB-2560 | SB-2520 |

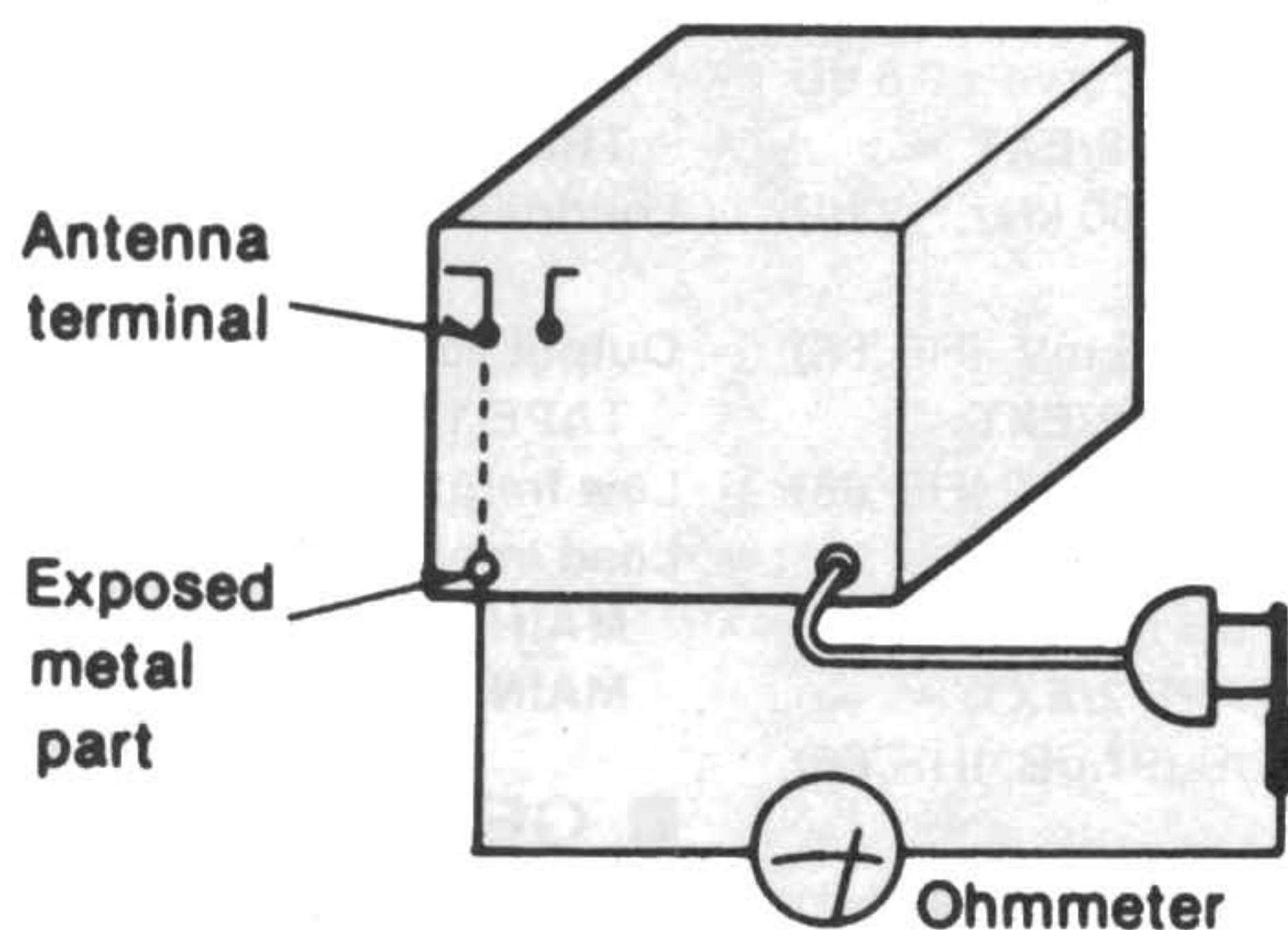
SAFETY PRECAUTION

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

INSULATION RESISTANCE TEST

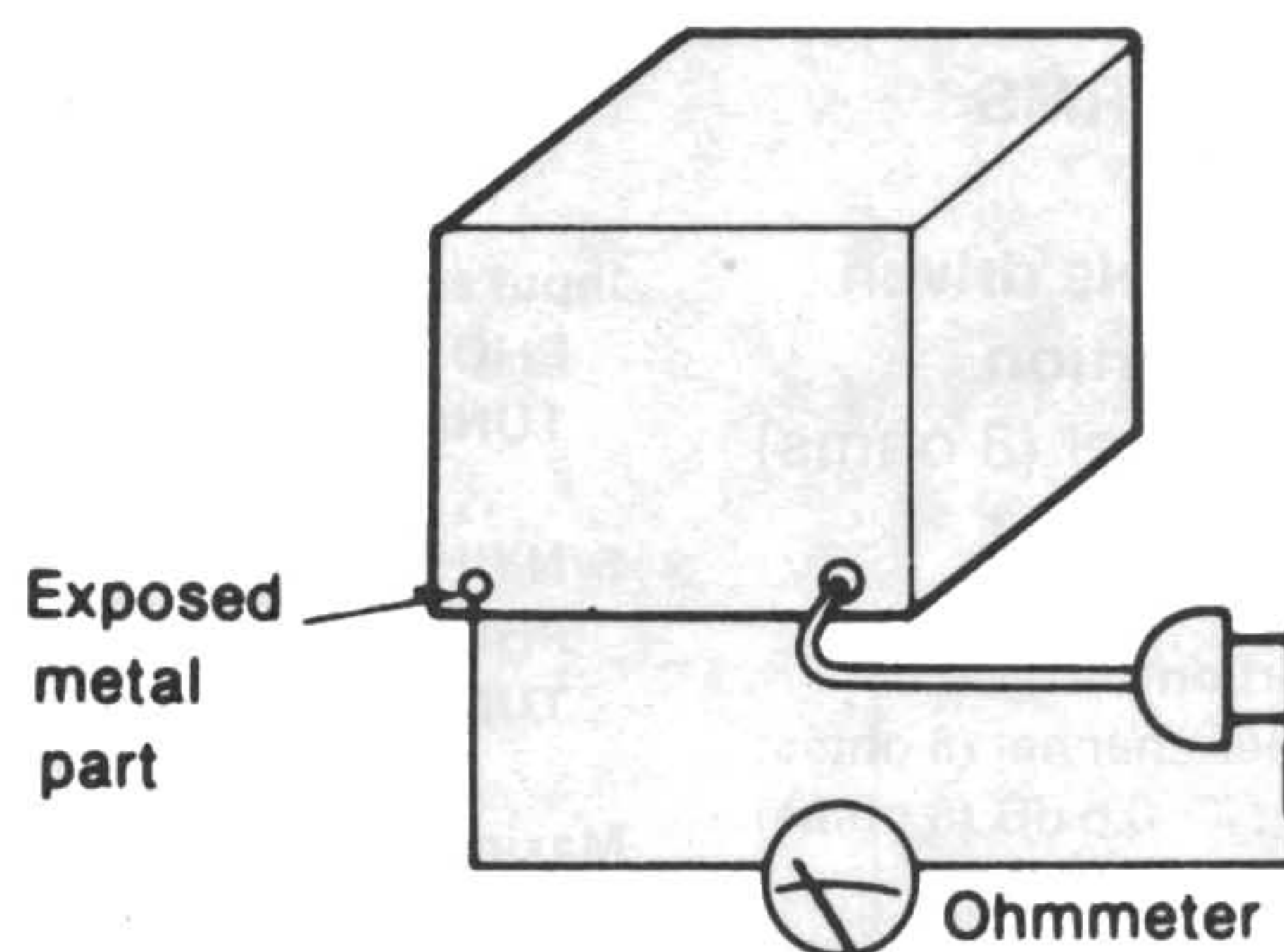
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between $3M\Omega$ and $5.2M\Omega$ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = $3M\Omega - 5.2M\Omega$



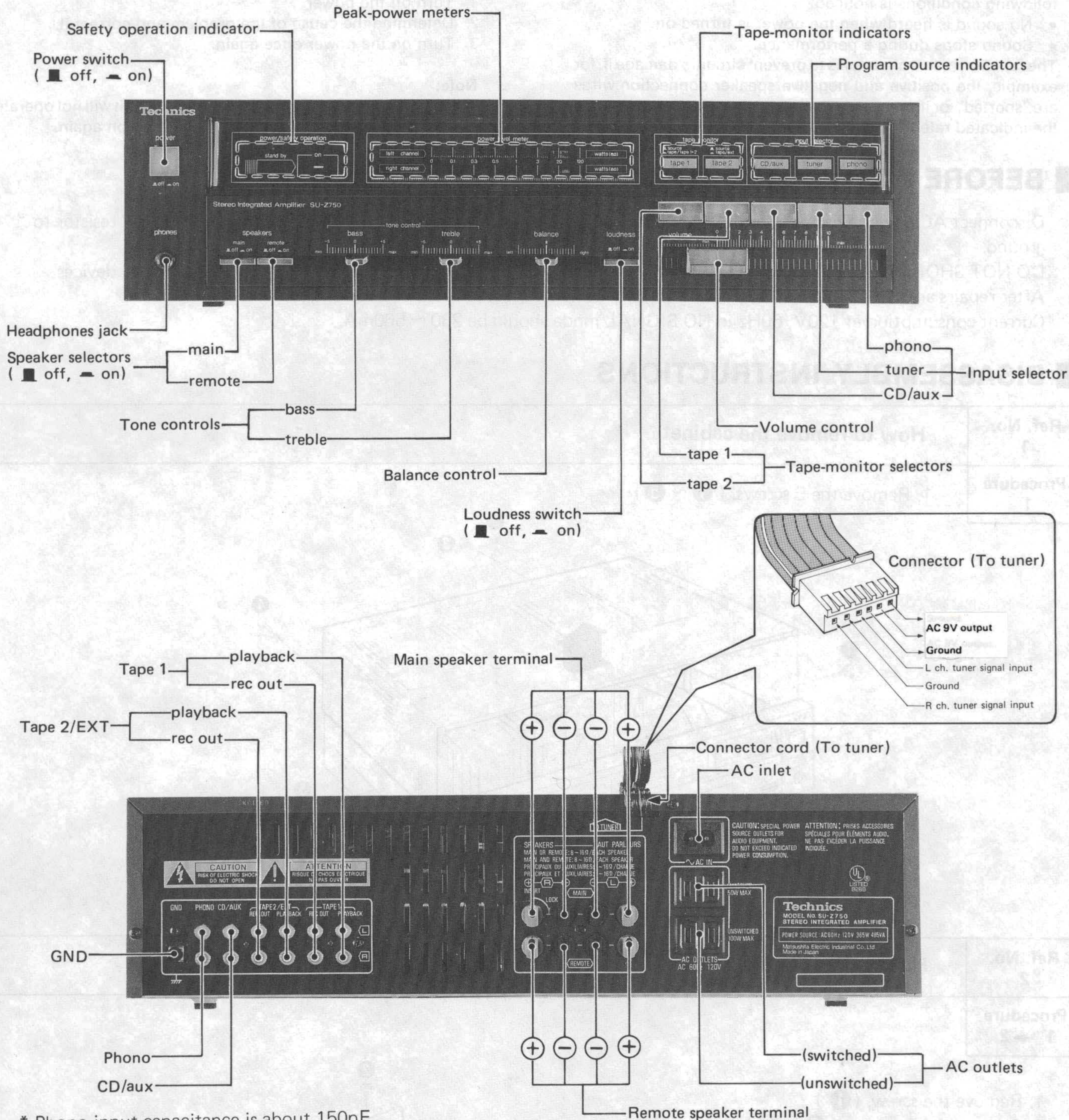
(Fig. B)

Resistance = Approx ∞

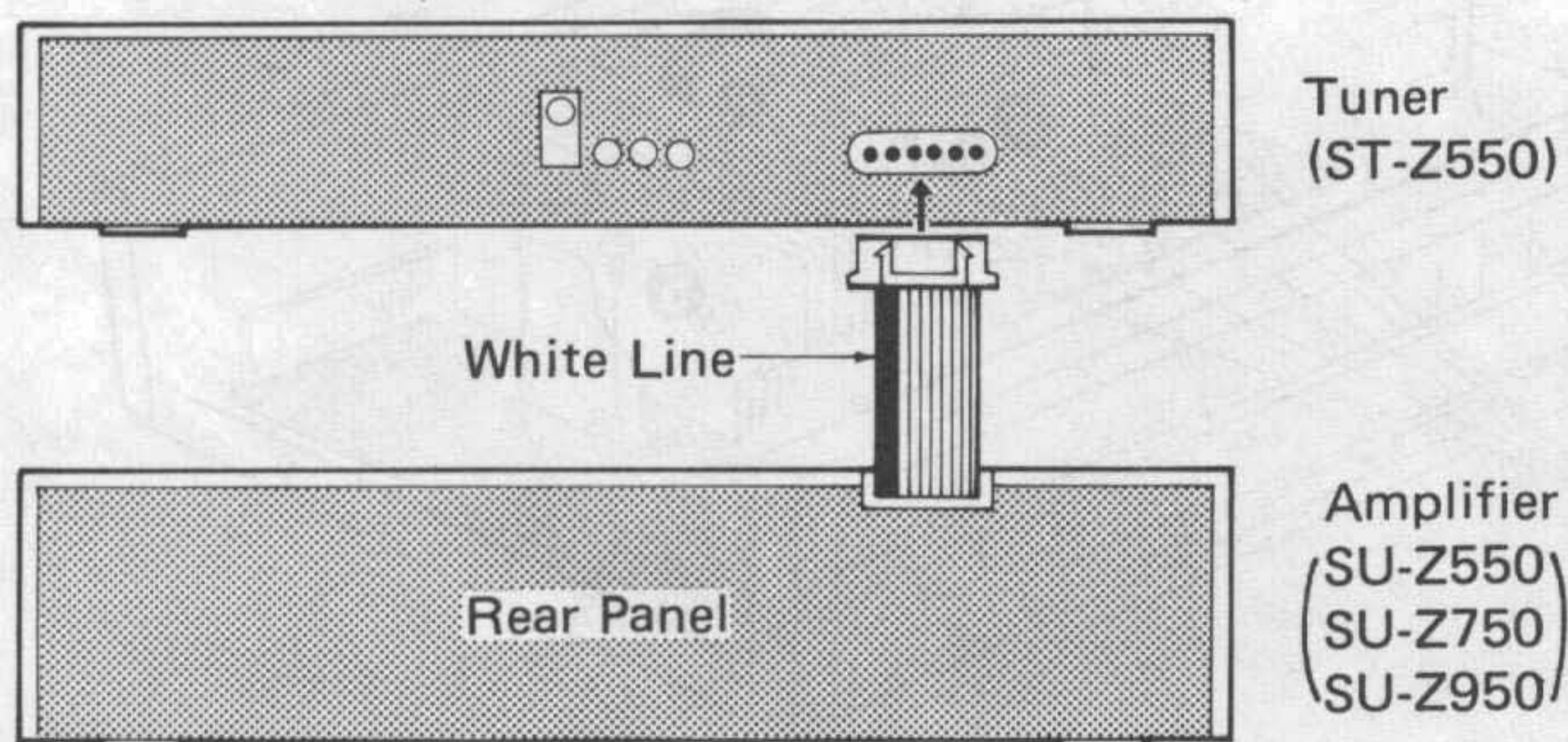
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

LOCATION OF CONTROLS

The function and operating method of **SU-Z950** are the same as for **SU-Z750**.



* Phono input capacitance is about 150pF.



Connect the amp and tuner as illustrated.

* Tuner (ST-Z550) is not equipped with power supply. So, the amplifier shown on separate power supply is necessary for the repair and check of this tuner.

PROTECTION CIRCUITRY

The protection circuitry 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.

BEFORE REPAIR AND ADJUSTMENT

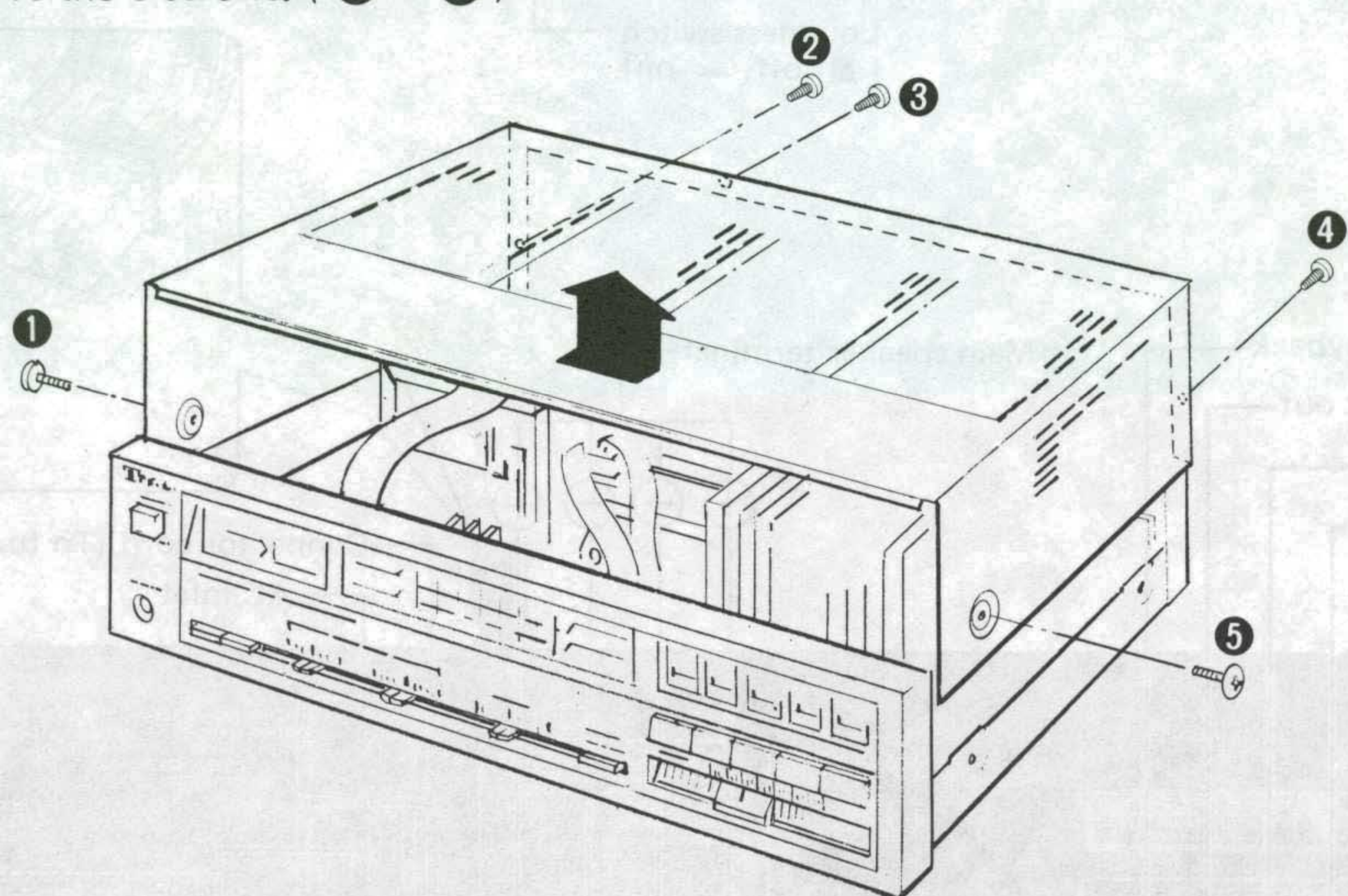
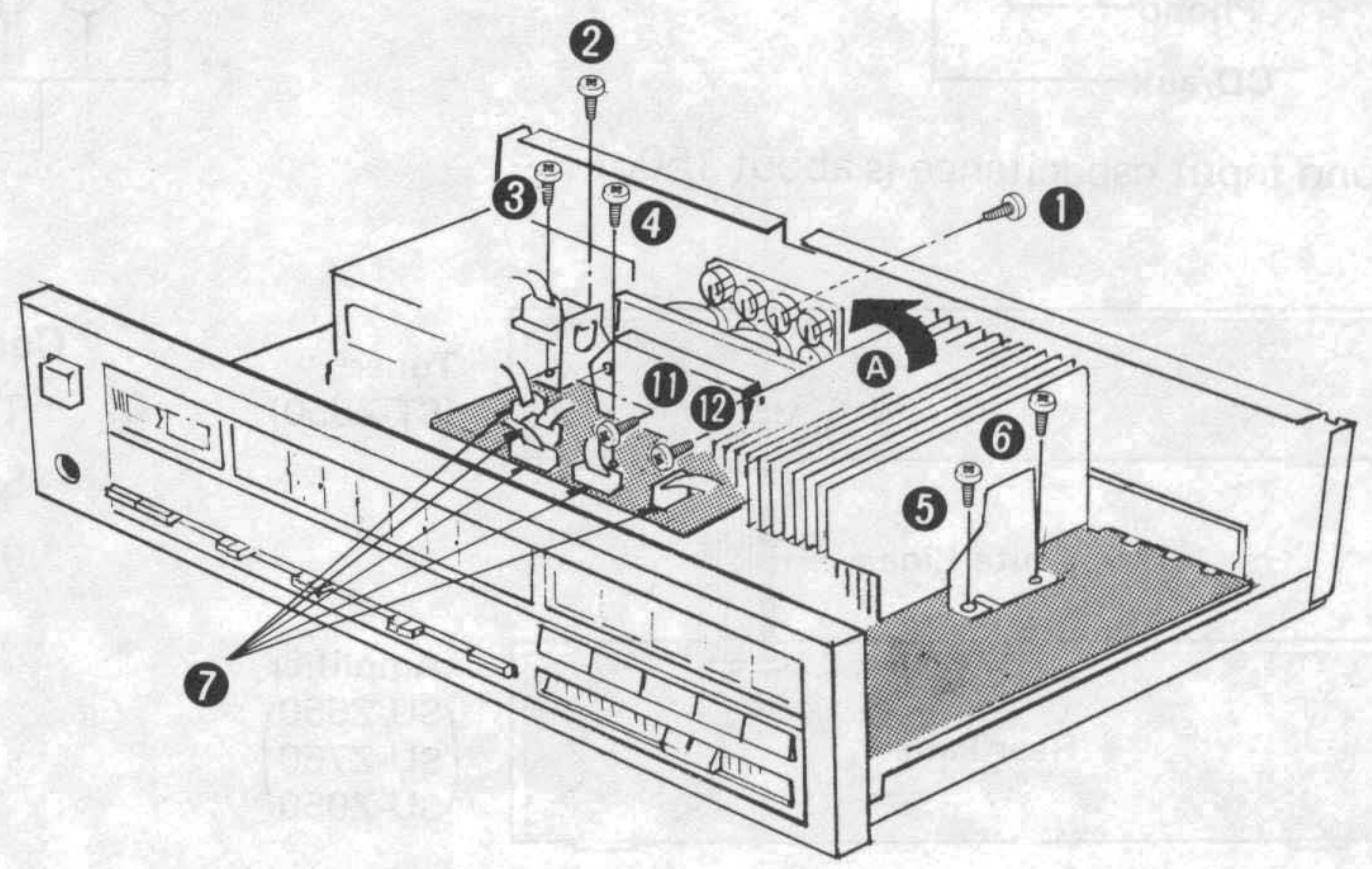
Disconnect AC power, Discharge both Power Supply Capacitors C503 and C504 (8000 μ F) through a 10 Ω , 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at 120V, 60Hz in NO SIGNAL mode should be 280 ~ 560mA.

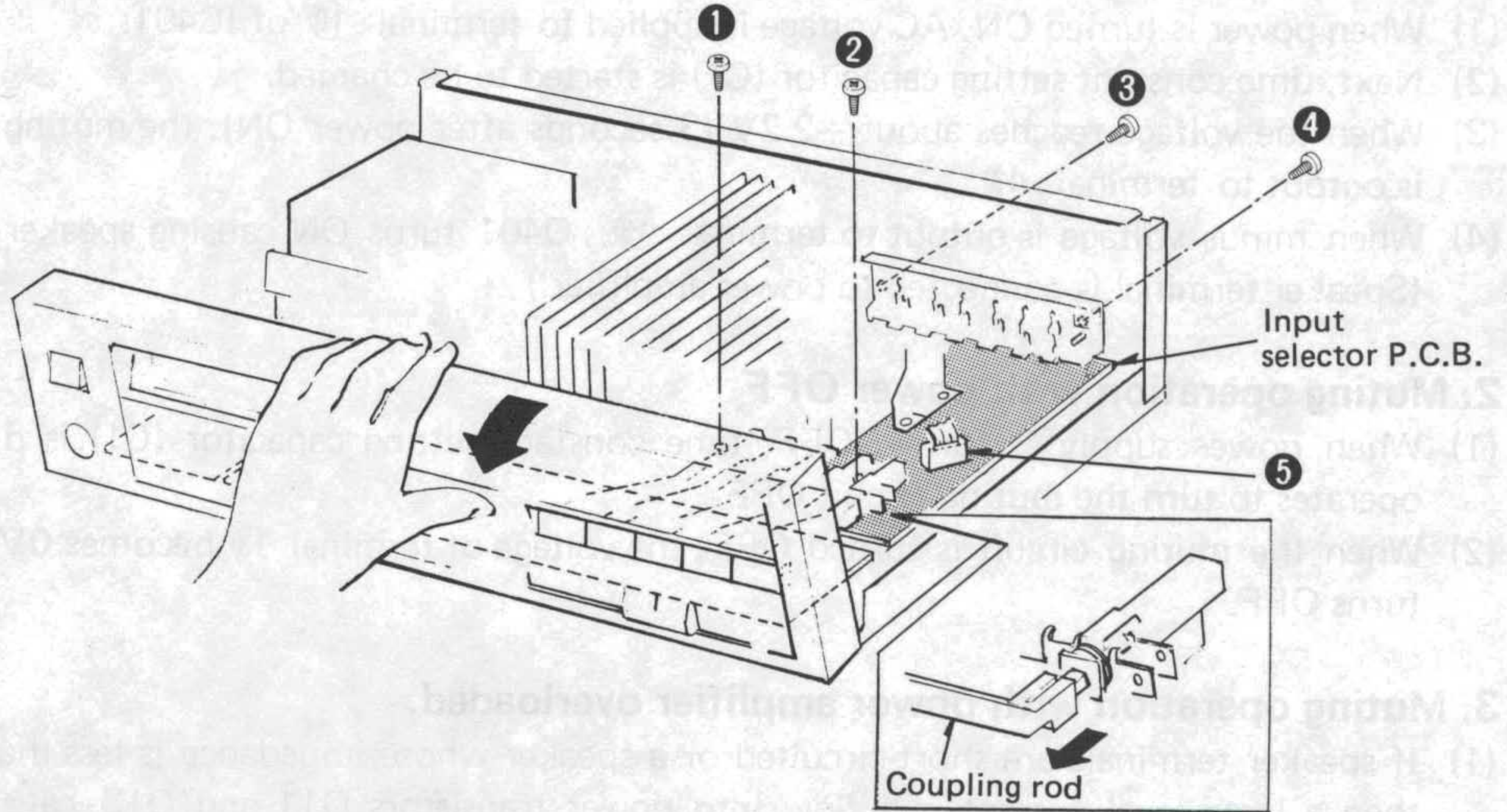
DISASSEMBLY INSTRUCTIONS

| | |
|---|--|
| <p>Ref. No. 1</p> | <p>How to remove the cabinet</p> |
| <p>Procedure 1</p> | <p>1. Remove the 5 screws. (① ~ ⑤)</p> |
|  | |
| <p>Ref. No. 2</p> | <p>How to remove the power IC</p> |
| <p>Procedure 1 → 2</p> | <p>1. Remove the screw. (①) 2. Remove the 5 screws. (② ~ ⑥) 3. Pull out the 5 connectors. (⑦) 4. Remove the power amplifier P.C.B. in the direction of the arrow A 5. Unsolder of the power IC. 6. Remove the 2 screws. (⑪ , ⑫)</p> |
|  <p>* When mounting the power IC, apply silicone compound (SZZ0L15) to the rear side of power IC.</p> | |

Ref. No. 3 **How to remove the input selector P.C.B.**

Procedure
1 → 2 → 3

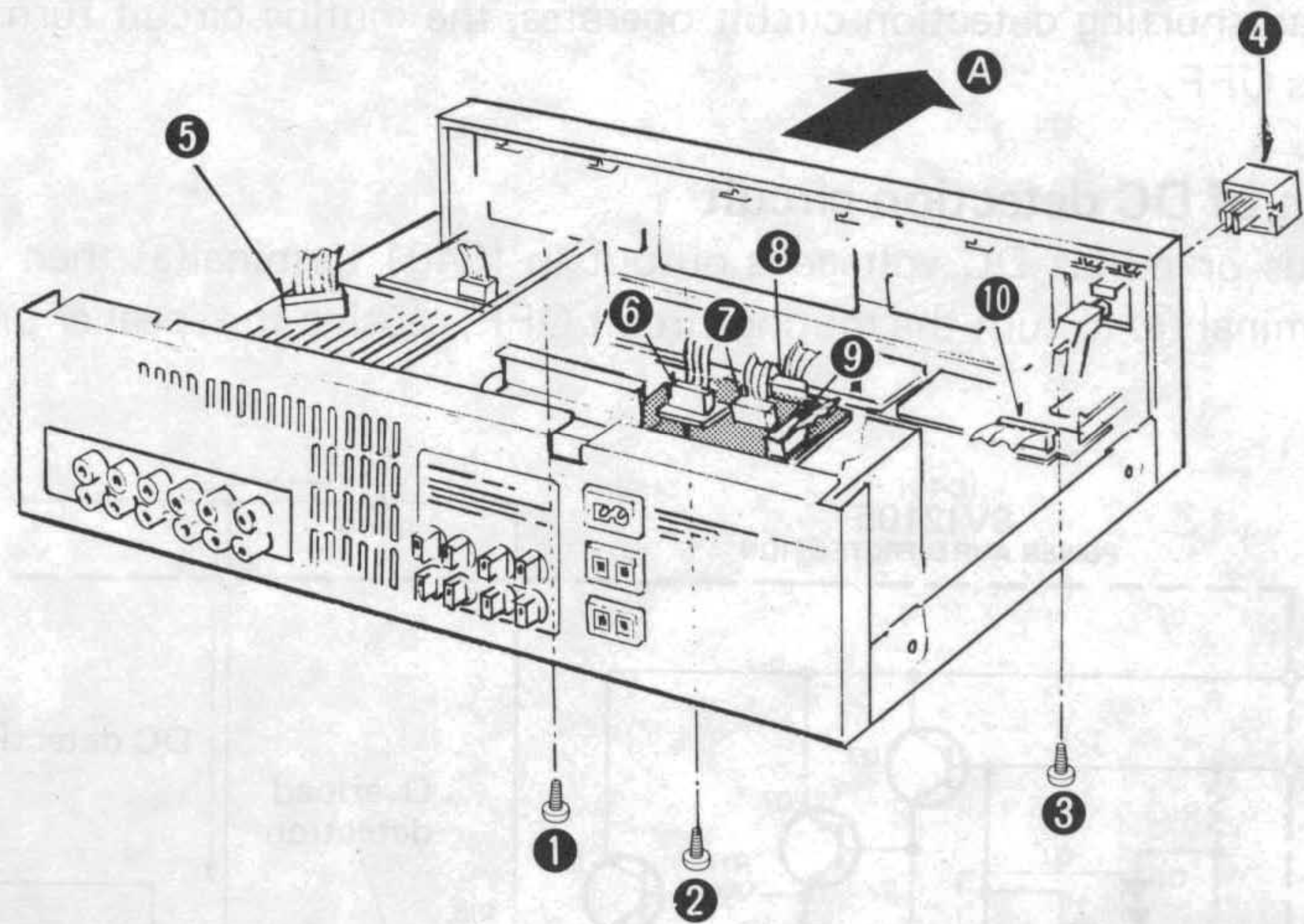
1. Pulling top of the front panel to your side to make opening there, pull off the 5 coupling rods illustrated in the figure.
2. Remove the 4 screws. (① ~ ④)
3. Pull out the connector. (⑤)
4. Remove the input selector P.C.B.



Ref. No. 4 **How to remove the front panel**

Procedure
1 → 4

1. Remove the 3 screws. (① ~ ③)
2. Remove the power switch button. (④)
3. Pull out the 6 connectors. (⑤ ~ ⑩)
4. Remove the front panel in the direction of the arrow A

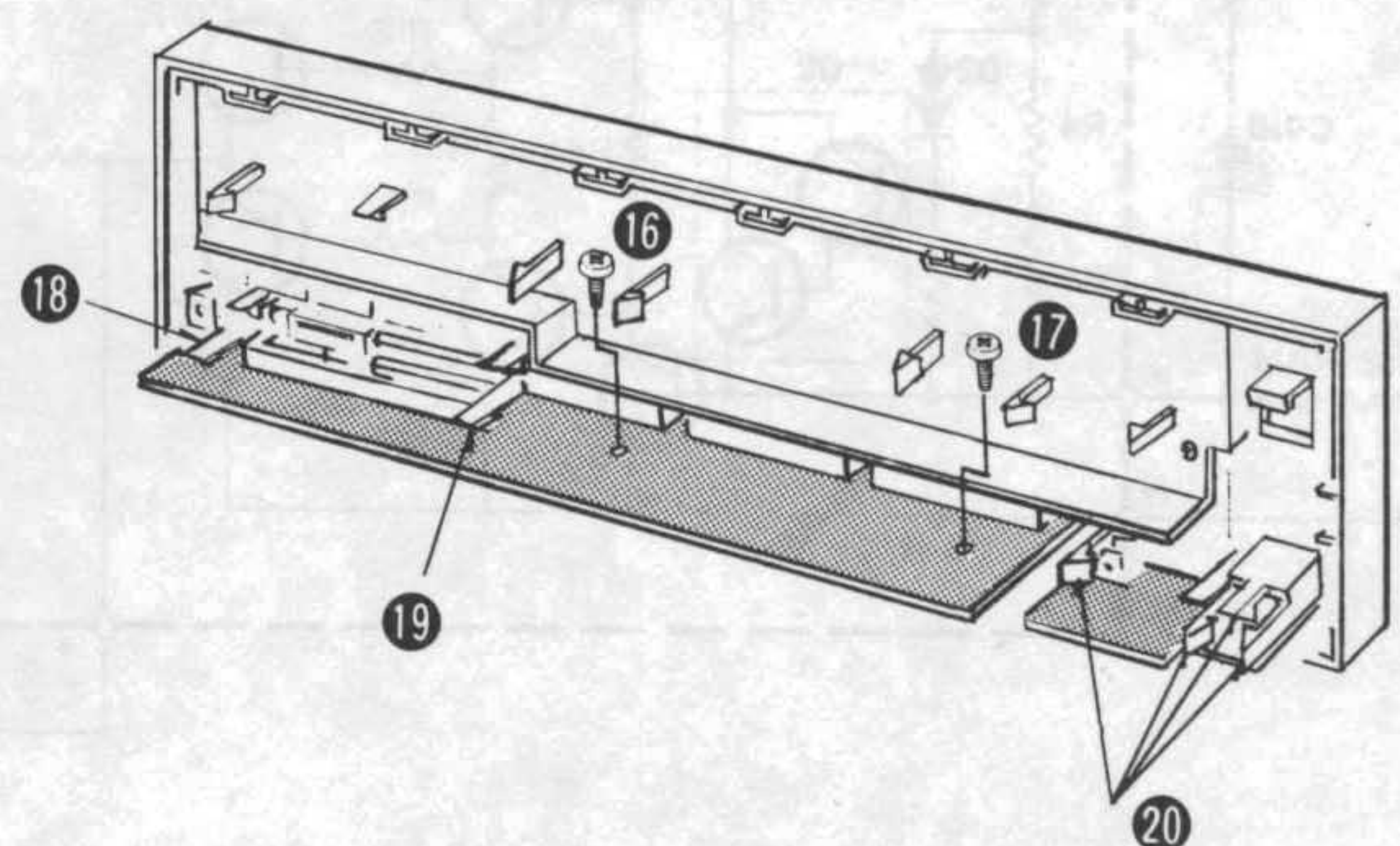
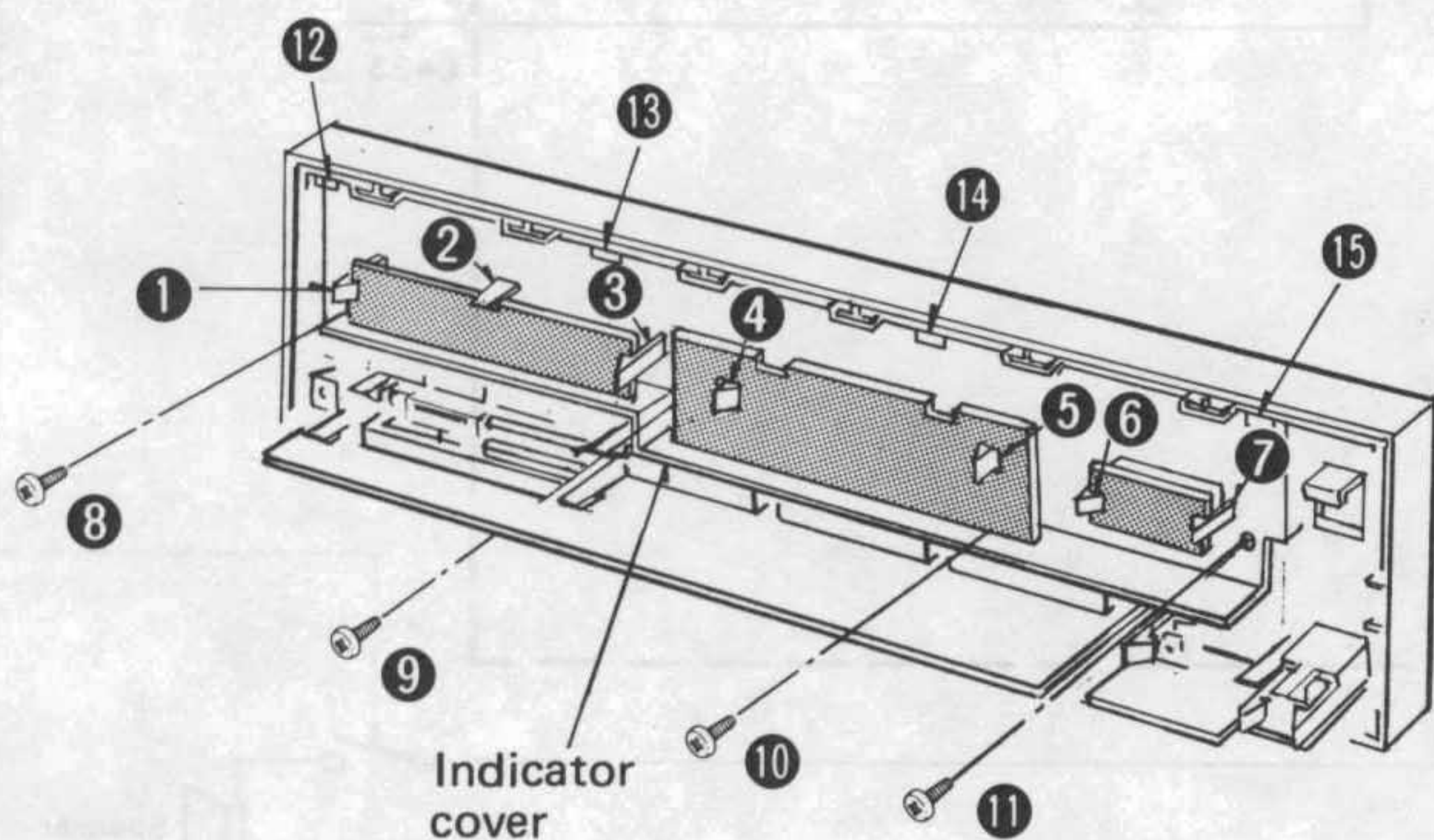


Ref. No. 5 **How to remove the indicator cover and volume control P.C.B.**

Procedure
1 → 4 → 5

1. Push the 7 tabs aside. (① ~ ⑦)
2. Remove the 4 screws. (⑧ ~ ⑪)
3. Release the 4 tabs (⑫ ~ ⑮) and remove the indicator cover.

4. Remove the 2 screws. (⑯ , ⑰)
5. Release the 2 tabs (⑱ , ⑲) and remove the volume control P.C.B.
6. Release the 4 tabs (⑳) and remove the headphones jack P.C.B.



OPERATIONAL DESCRIPTION OF IC401 FOR MUTING

1. Muting operation with power ON

- (1) When power is turned ON, AC voltage is applied to terminal ⑩ of IC401.
- (2) Next, time constant setting capacitor (C1) is started to be charged.
- (3) When the voltage reaches about $-2.2V$ (3 seconds after power ON), the muting circuit turns ON, and then $-15V$ voltage is output to terminal ⑬.
- (4) When minus voltage is output to terminal ⑬, Q401 turns ON causing speaker protecting relay (RLY401) to turn ON. (Speaker terminal is connected to power amplifier.)

2. Muting operation with power OFF

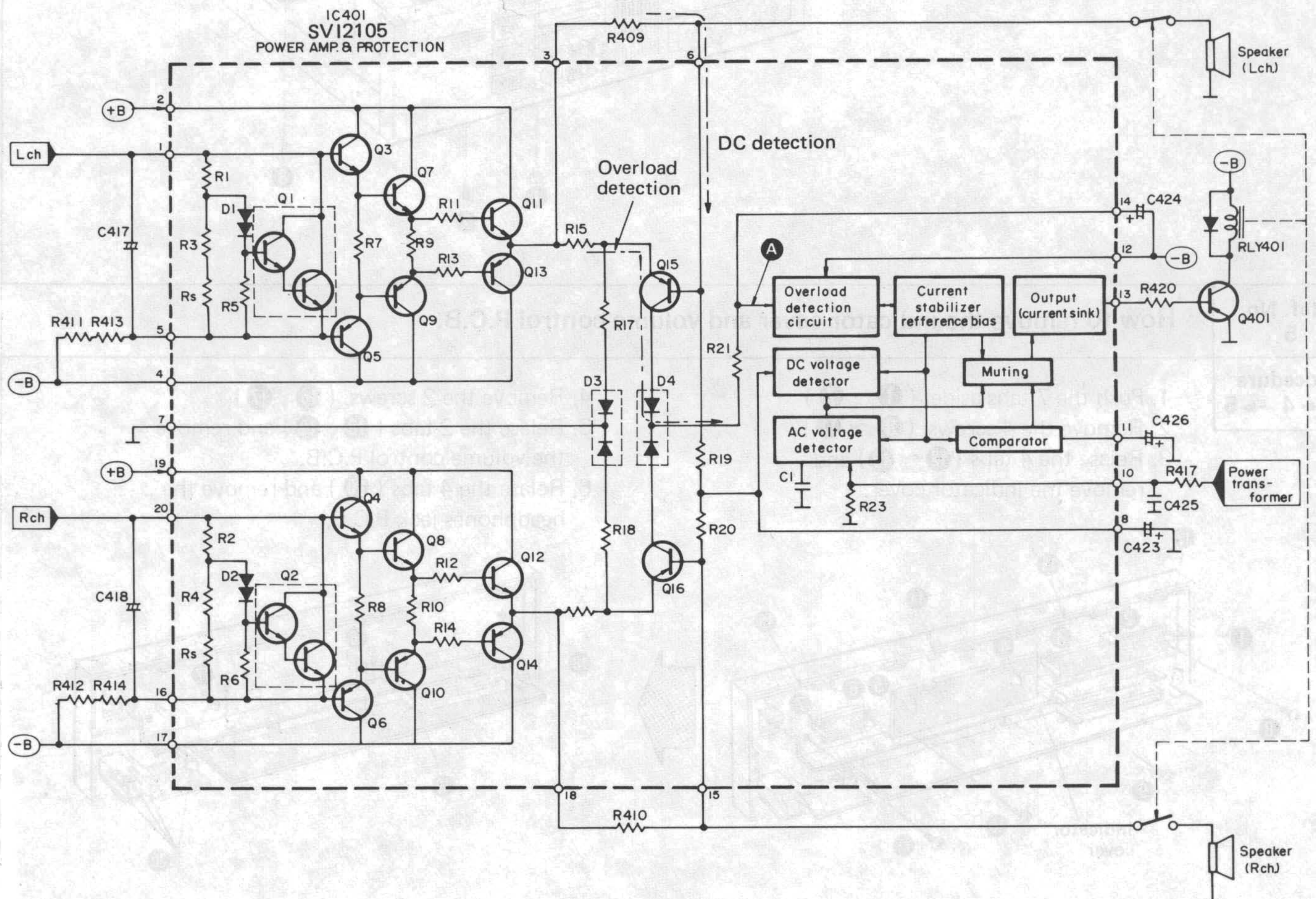
- (1) When power supply is turned OFF, time constant setting capacitor (C1) is discharged, and then AC detector circuit operates to turn the muting circuit OFF.
- (2) When the muting circuit is turned OFF, the voltage of terminal ⑬ becomes 0V and speaker protecting relay (RLY401) turns OFF.

3. Muting operation with power amplifier overloaded.

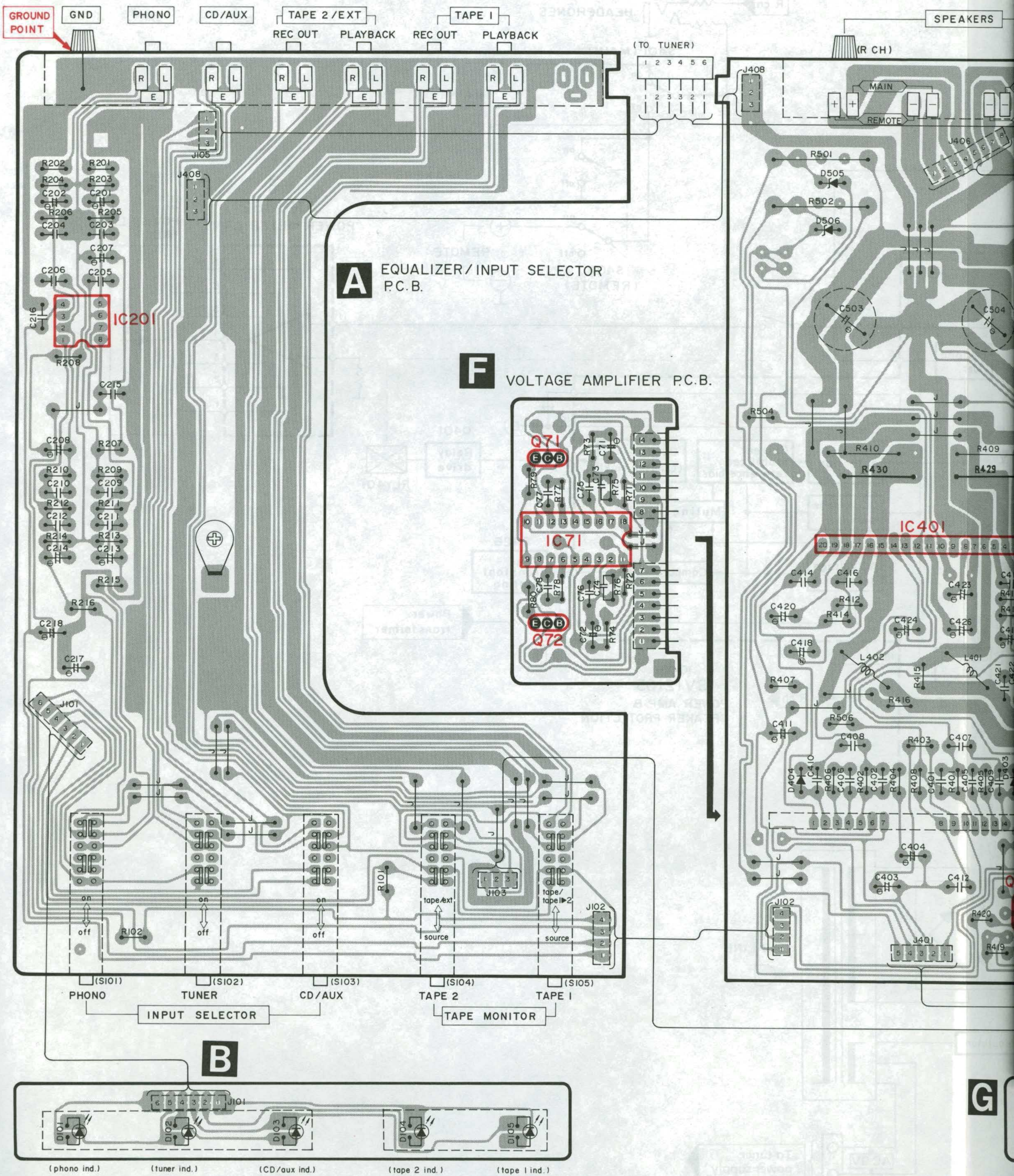
- (1) If speaker terminals are short-circuited or a speaker whose impedance is less than the rating indicated on the unit is used, then a large level current will flow into power transistors Q11 and Q13, causing rise of the voltage across the emitter resistor R409.
- (2) When the voltage across R409 is increased, the overload detection transistor Q15 turns ON.
- (3) With Q15 turned ON, plus voltage is applied to point A. The load shorting detector circuit operates when the voltage difference between terminals ⑫ and ⑭ becomes more than 0.6V.
- (4) If the load shorting detection circuit operates, the muting circuit turns OFF and the speaker protecting relay (RLY401) also turns OFF.

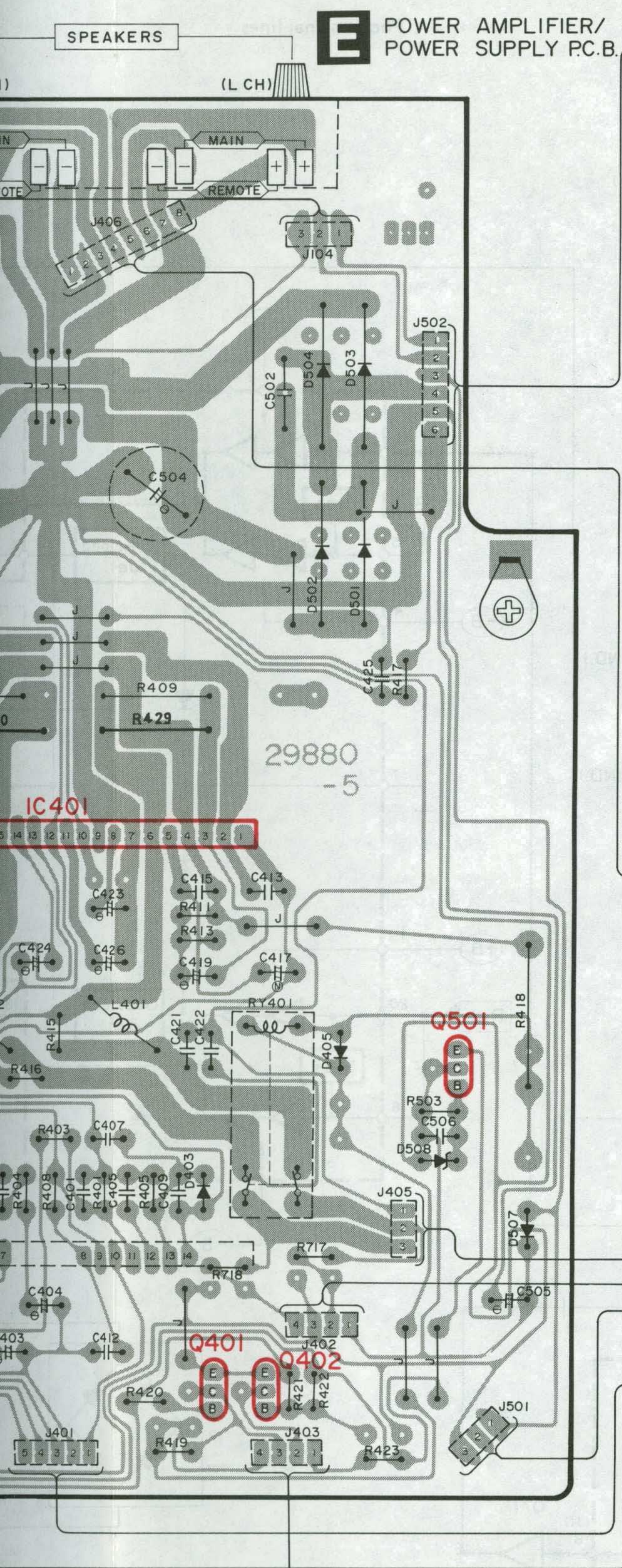
4. Operation of DC detection circuit

- (1) When plus or minus DC voltage is output to IC401 terminal ③, then the voltage is input to DC voltage detector circuit from terminal ⑥ to turn the muting circuit OFF, causing the speaker protecting relay (RLY401) to turn OFF.

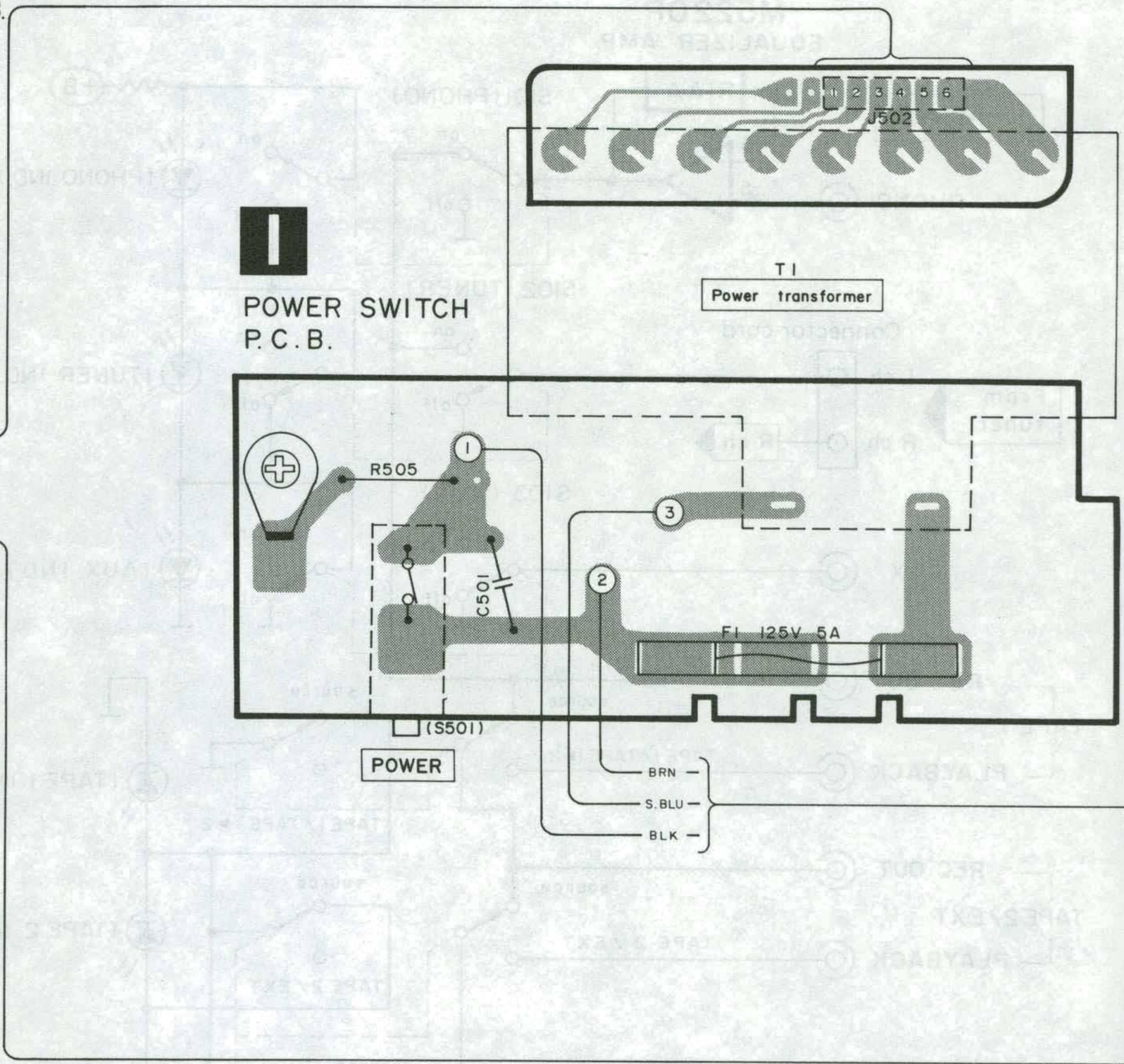


CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM





E POWER AMPLIFIER/
POWER SUPPLY P.C.B.



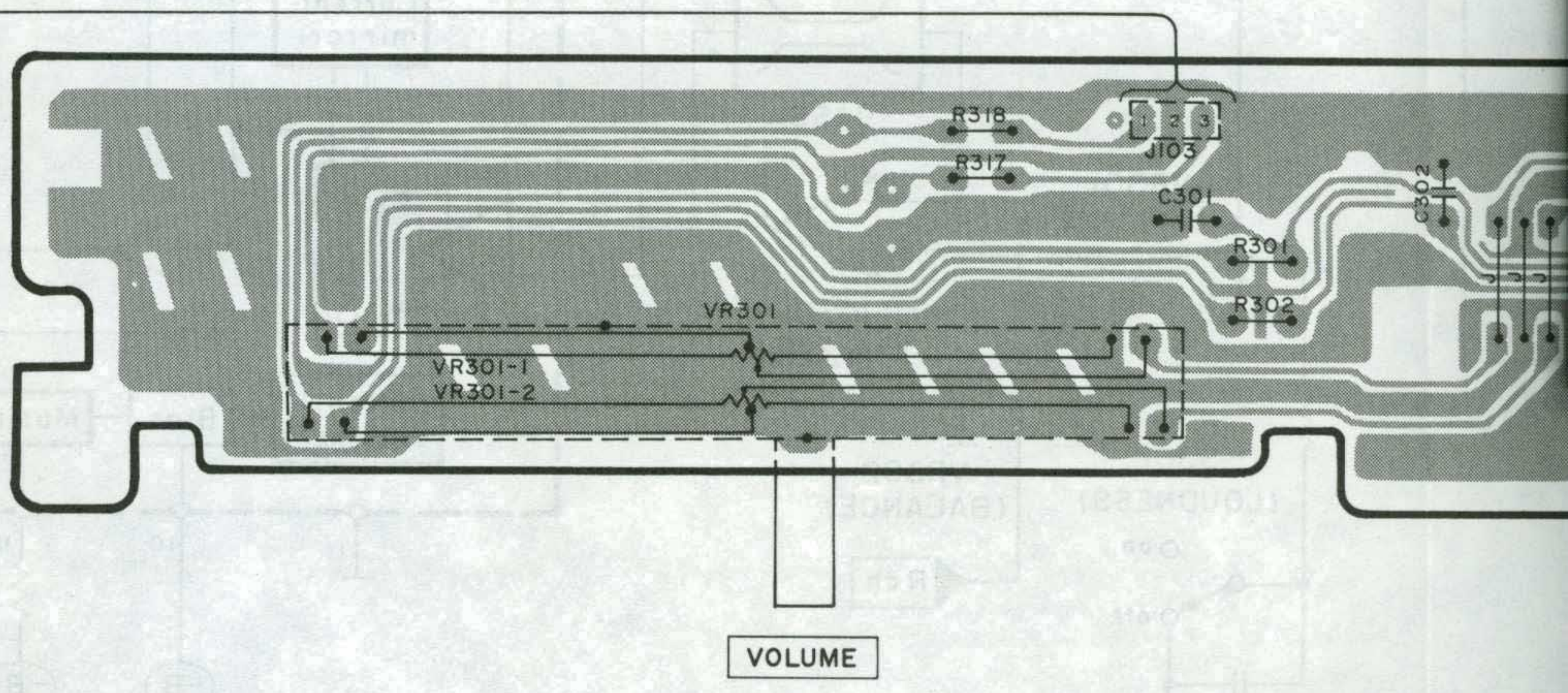
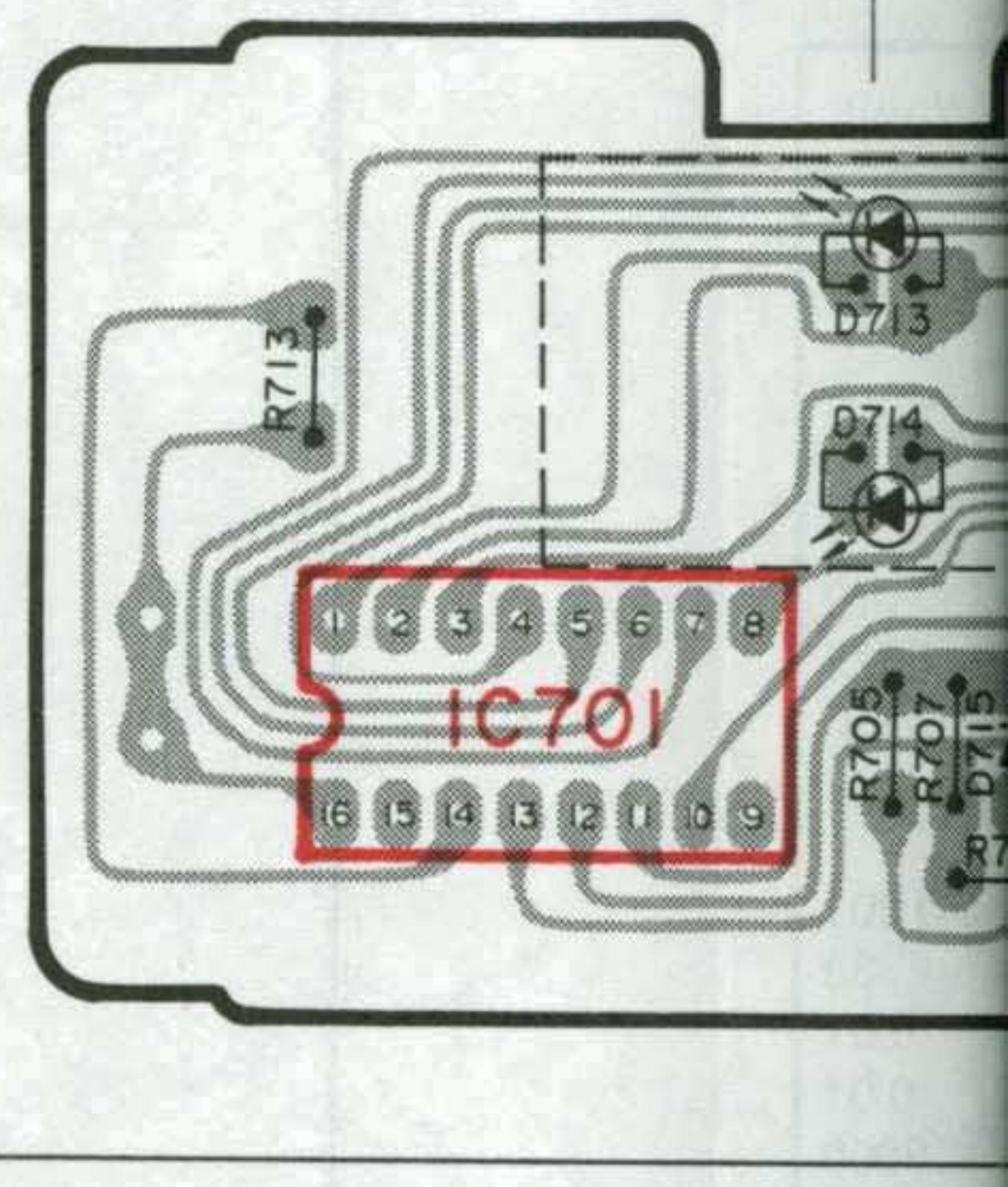
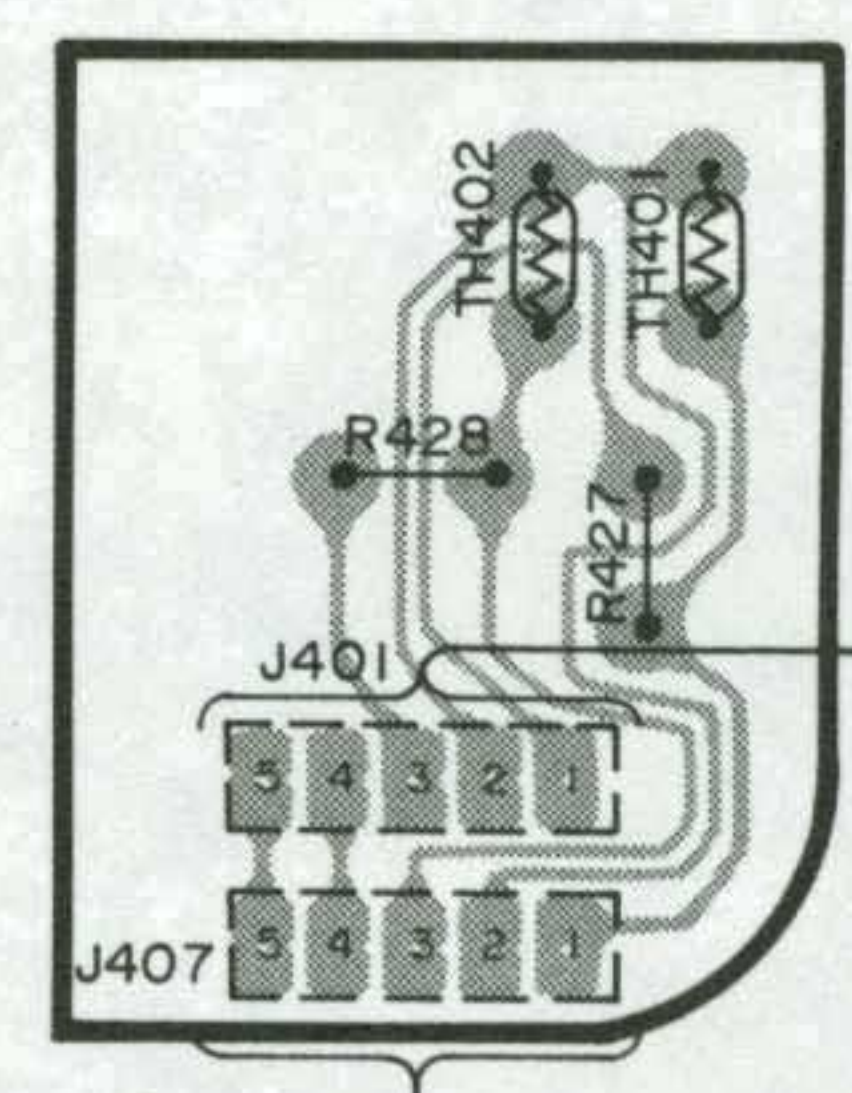
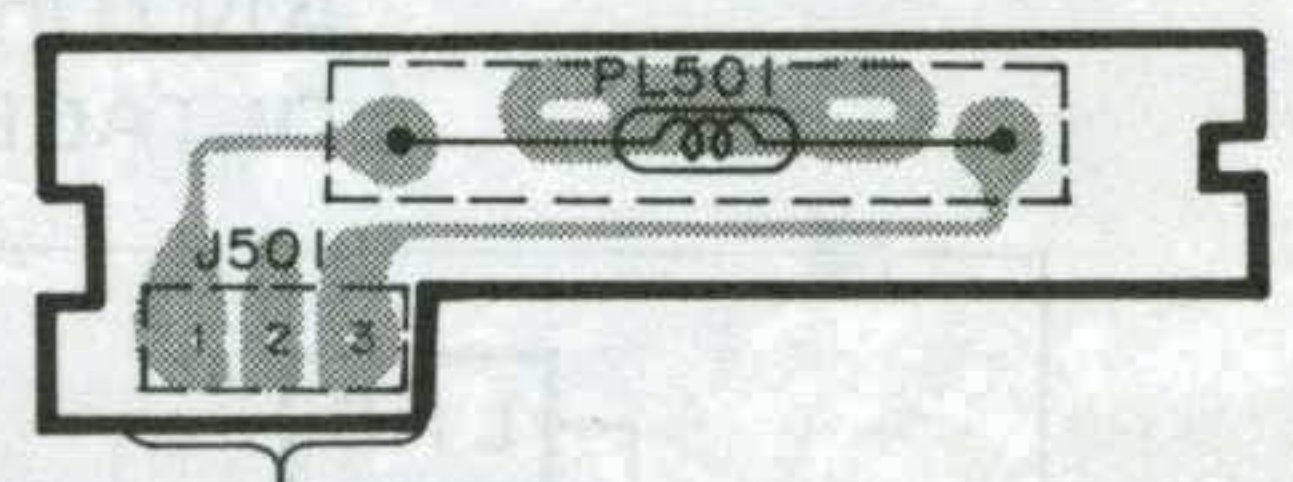
I POWER SWITCH
P.C.B.

T1
Power transformer

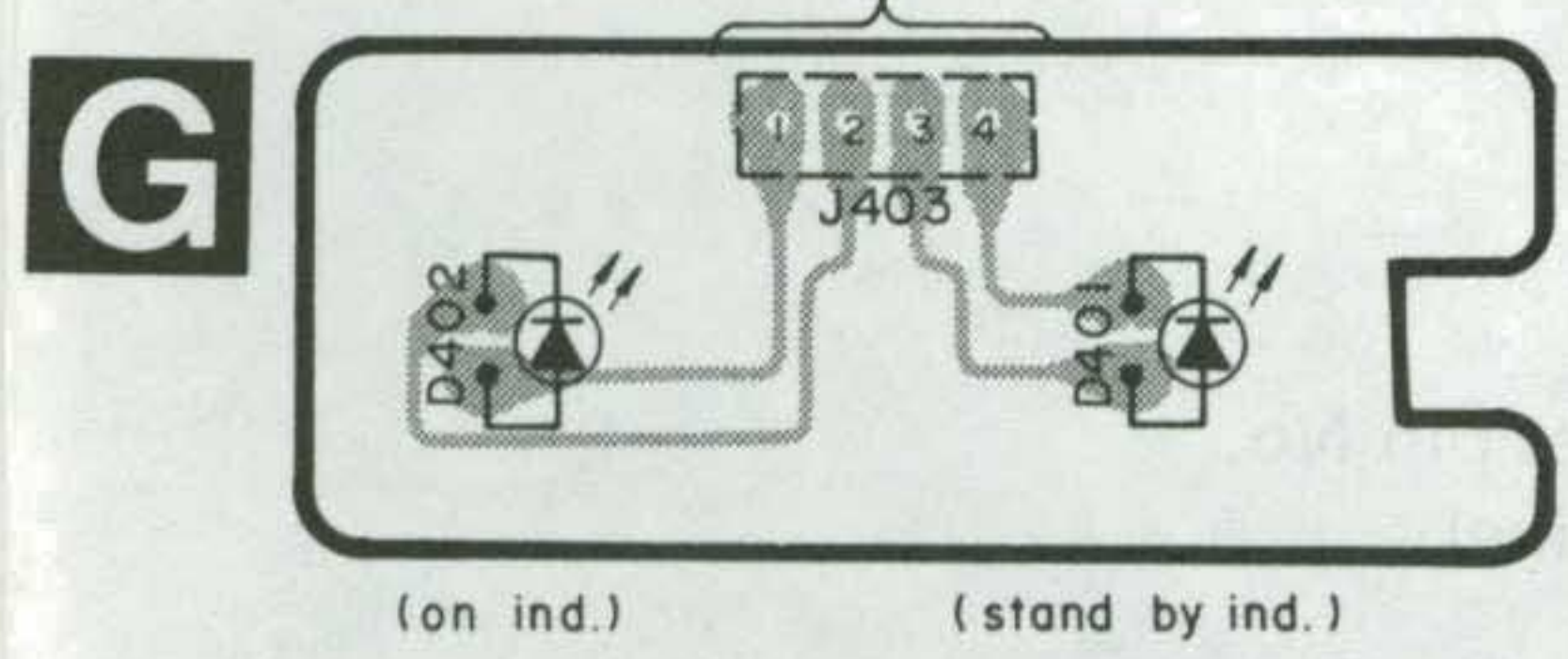
POWER

BRN
S.BLU
BLK

FI 125V 5A

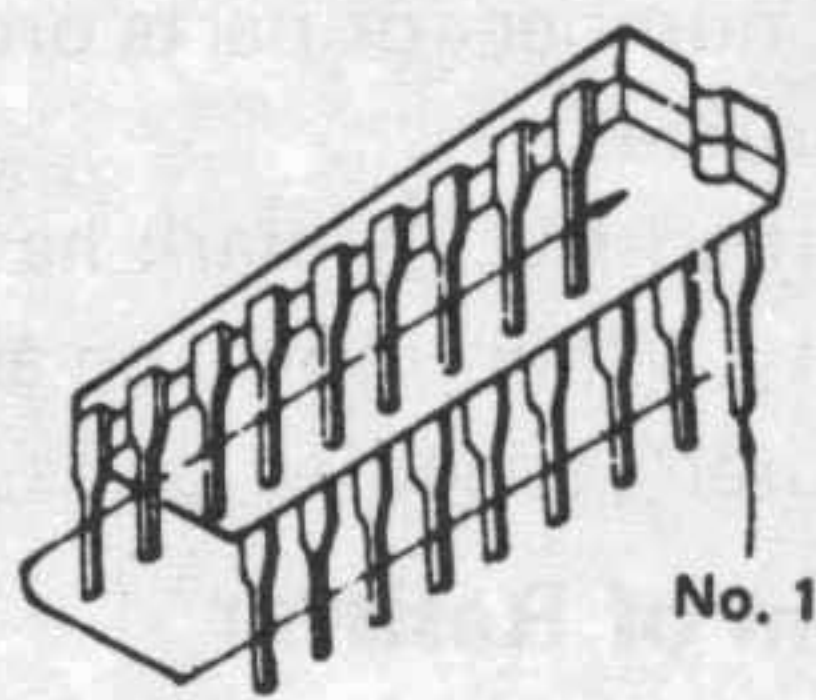
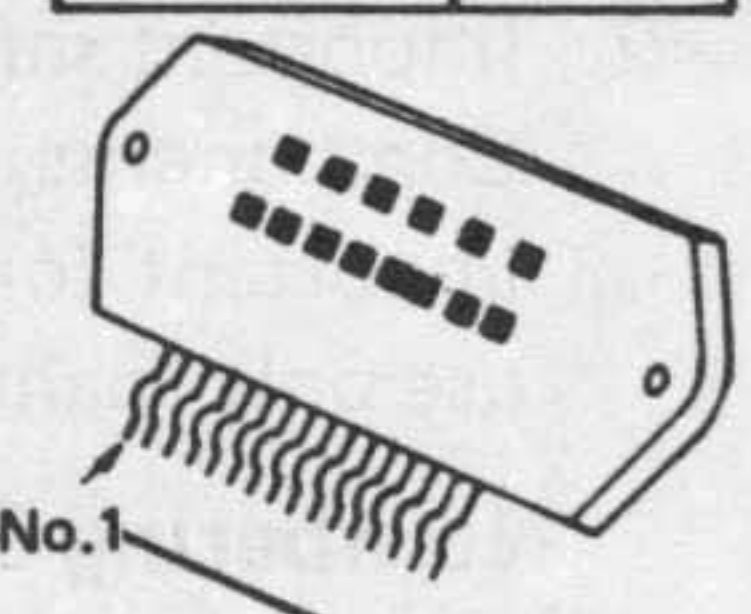
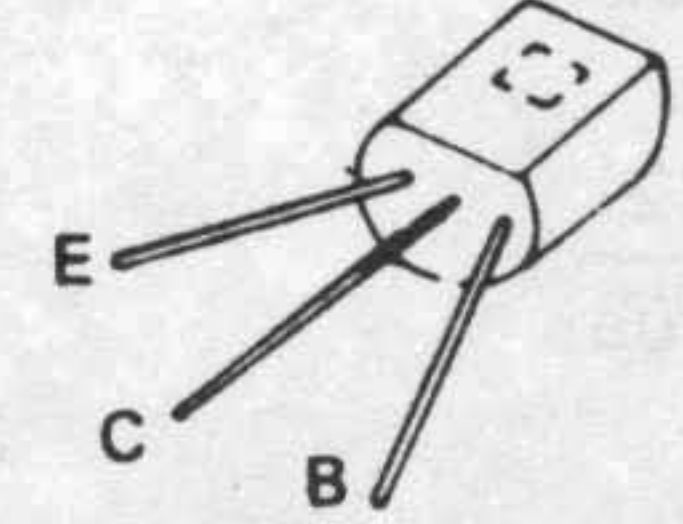
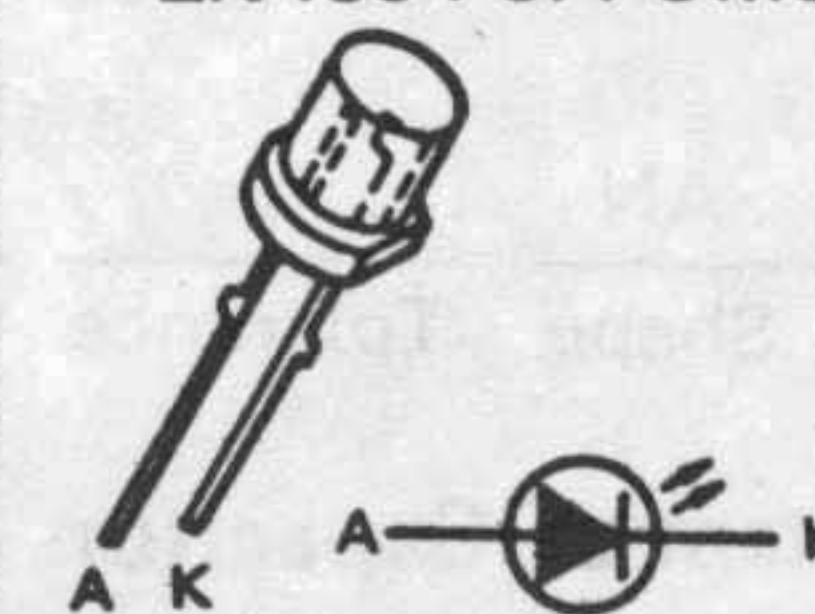
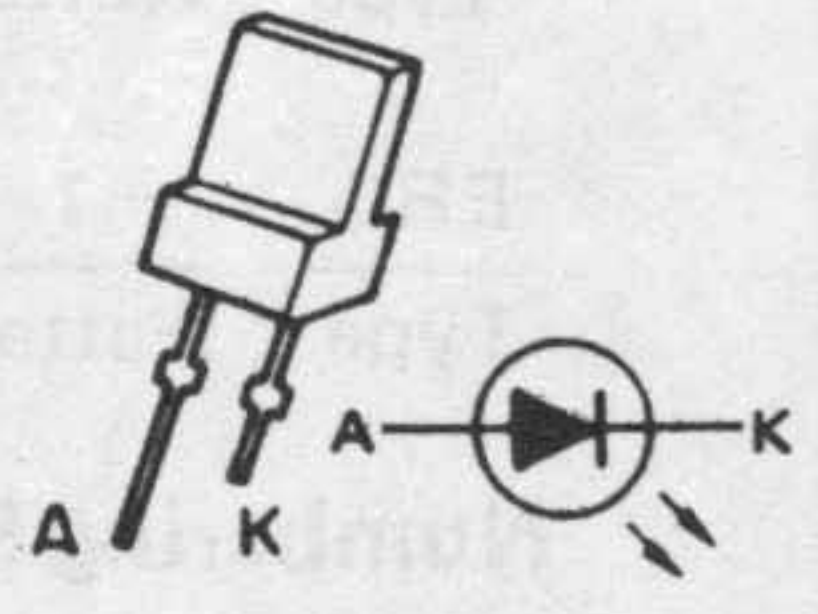
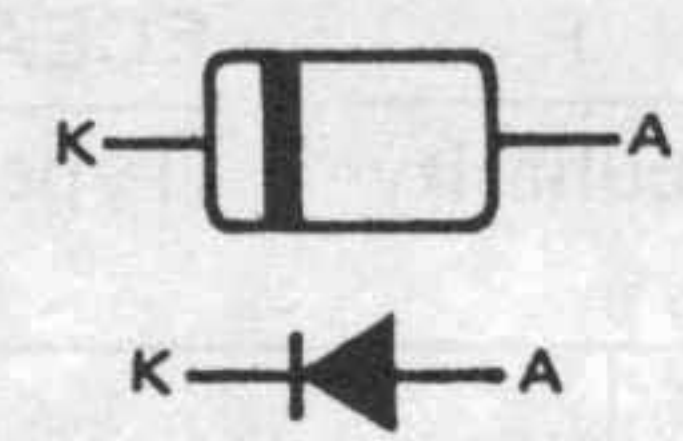
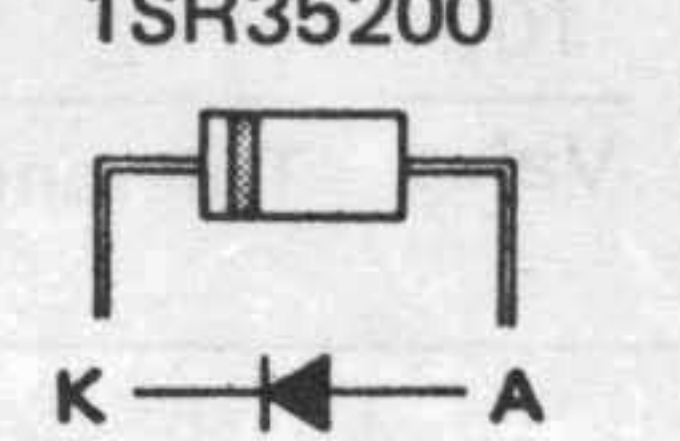
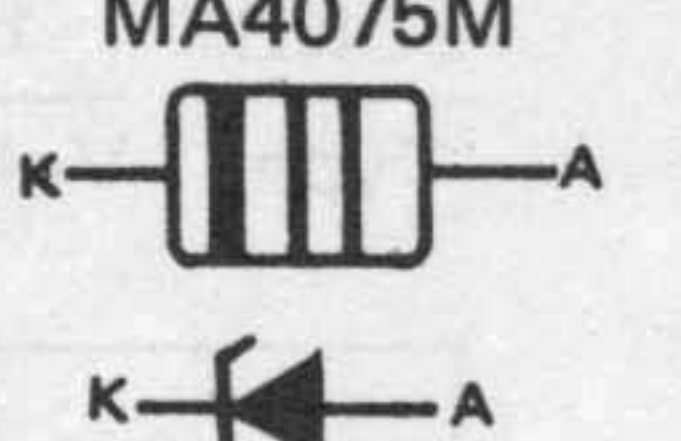
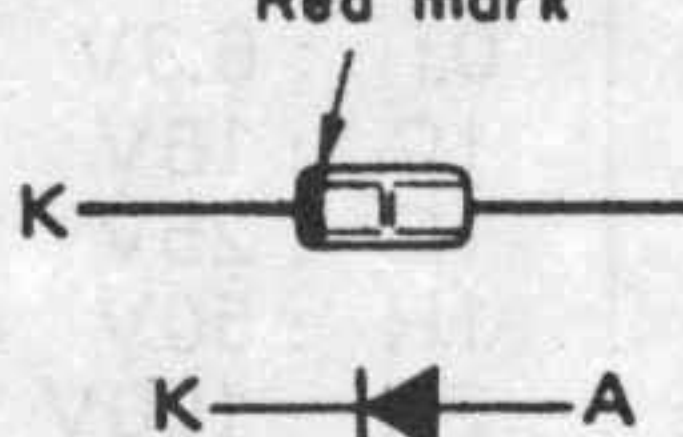


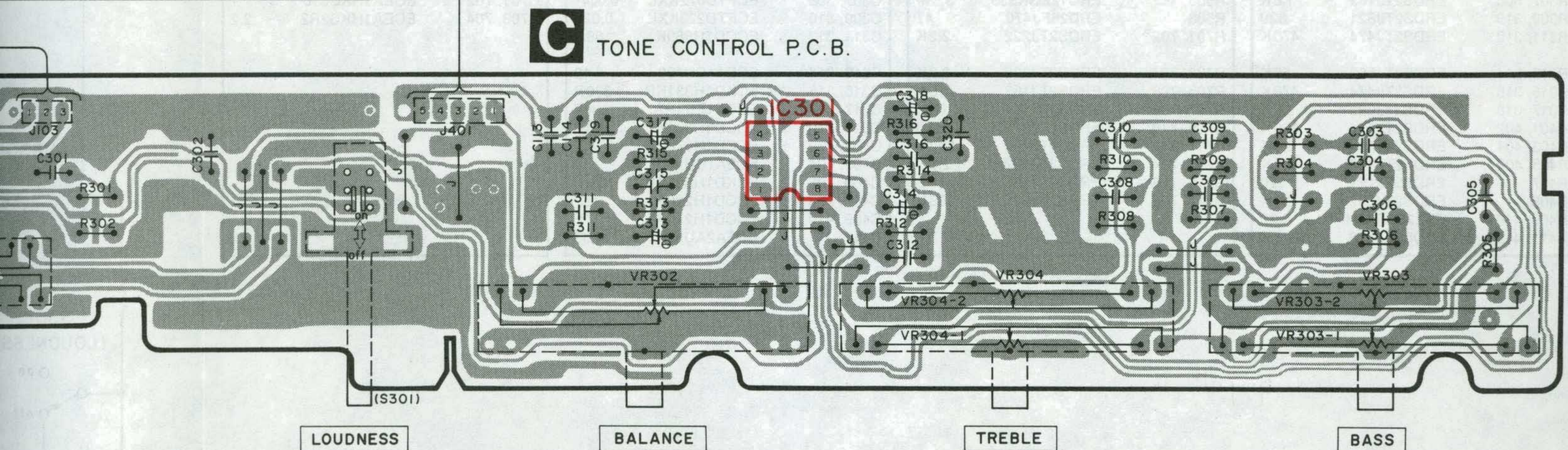
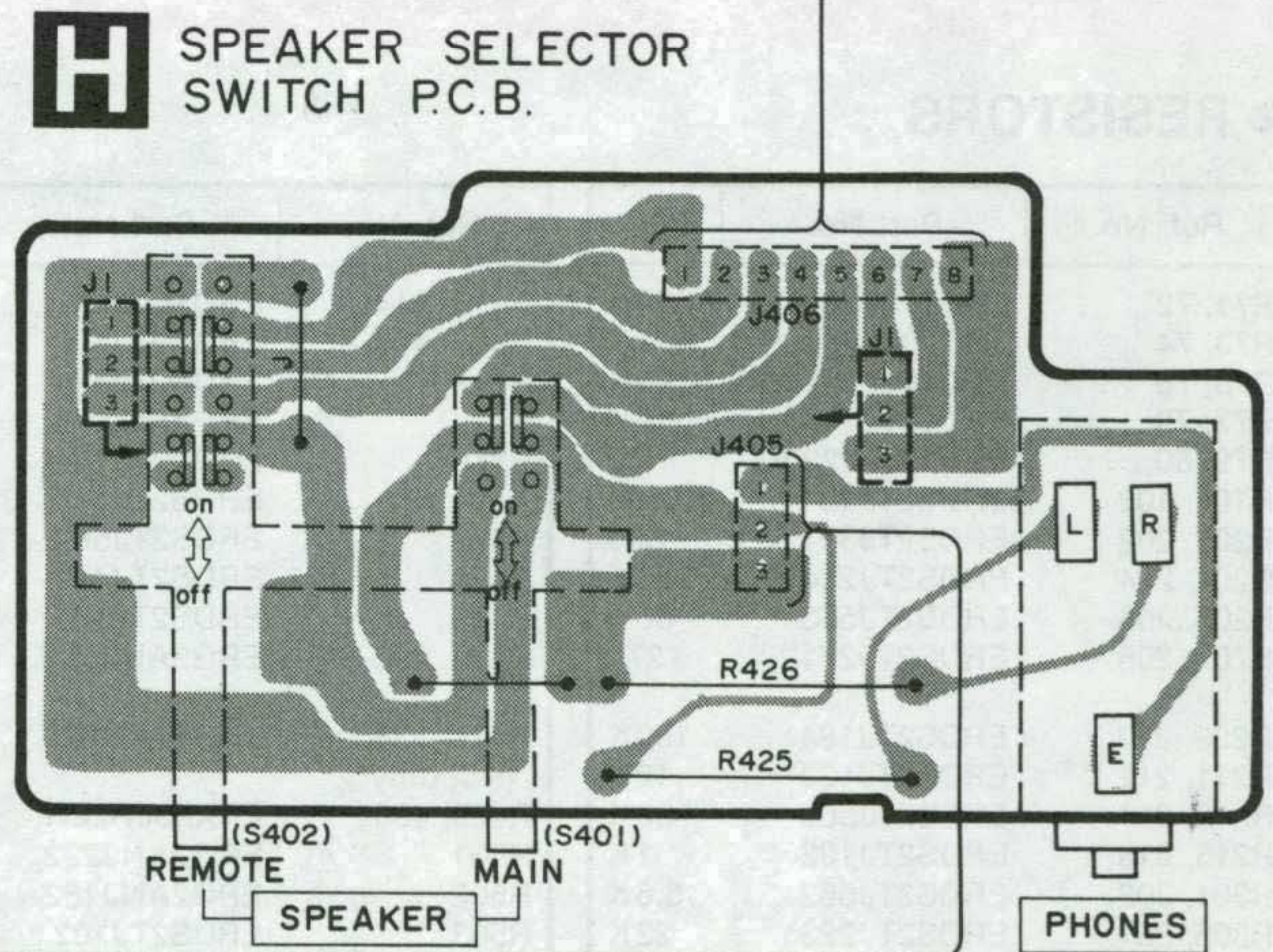
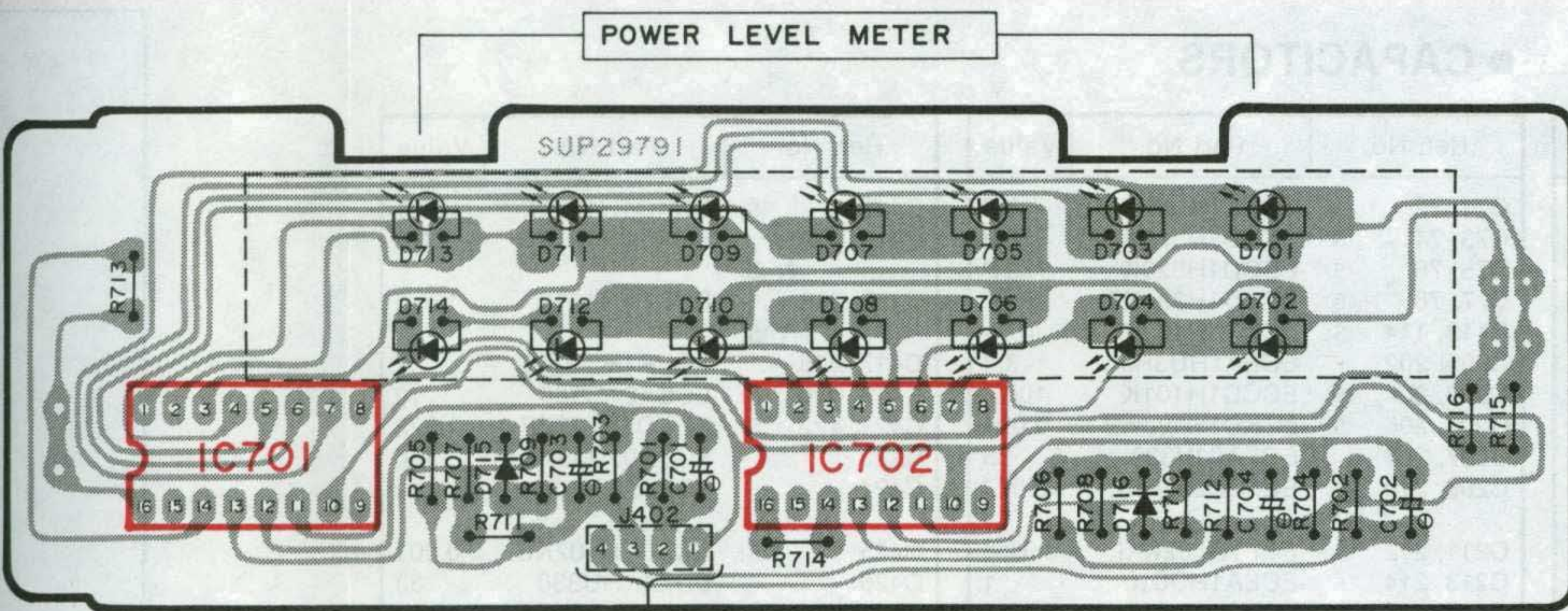
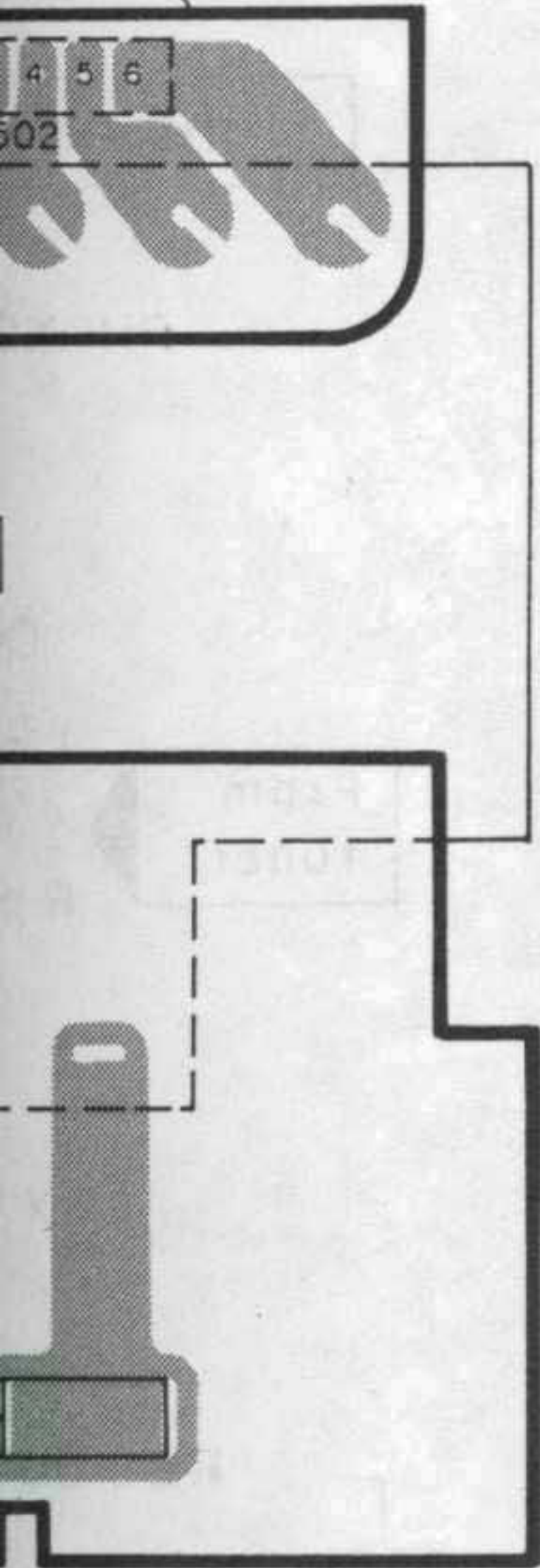
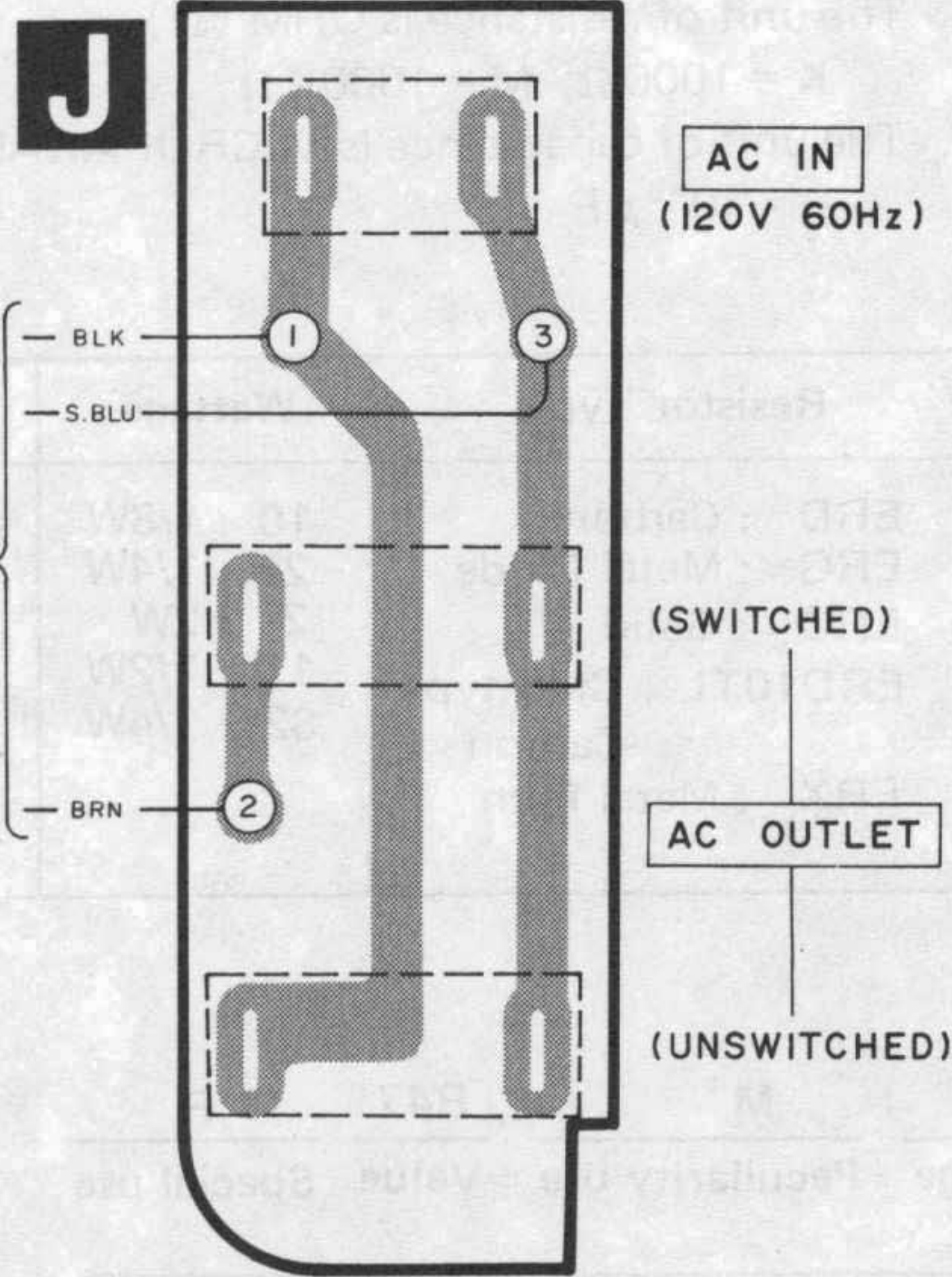
VOLUME



(on ind.) (stand by ind.)

TERMINAL GUIDE OF TRANSISTORS, DIODES AND IC'S

| | | |
|--|--|---|
| AN7062N 18PIN M5220P 8PIN M5218P 8PIN AN6882 16PIN |  No. 1 | SVI2105 20PIN  No. 1 |
| 2SA1123, 2SA992 2SC1685, 2SC2631 | LN864RCP LN464YCPU LN463YCPPUMS | LN846RP LN446YP |
|  E C B |  A K |  A K |
| MA182, MA167 | SVDS3V20 1SR35200 | MA4150M MA4075M |
|  K A |  K A |  K A |
| MA27W-A Red mark | | |
|  K A | | |



RESISTORS & CAPACITORS

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - 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 "S" mark is service standard parts and may differ from production parts.
- The unit of resistance is OHM (Ω).
K = 1000 Ω , M = 1000K Ω
- The unit of capacitance is MICROFARAD (μF).
P = 10⁻⁶ μF

Numbering System of Resistor

Example

| | | | | |
|------|---------|-------|-----------|-------|
| ERD | 25 | F | J | 101 |
| Type | Wattage | Shape | Tolerance | Value |
| ERG | 1 | AN | J | 2R2 |
| Type | Wattage | Shape | Tolerance | Value |

Numbering System of Capacitor

Example

| | | | | | | | | | |
|------|---------|-------|-----------|-------------|------|---------|-----------------|-------|-------------|
| ECKD | 1H | 103 | Z | F | ECEA | 50 | M | R47 | R |
| Type | Voltage | Value | Tolerance | Peculiarity | Type | Voltage | Peculiarity use | Value | Special use |

| Resistor Type | Wattage | Tolerance |
|-------------------------------|-----------|----------------|
| ERD : Carbon | 10 : 1/8W | J : $\pm 5\%$ |
| ERG : Metal Oxide | 25 : 1/4W | K : $\pm 10\%$ |
| ERC : Solid | 2 : 2W | |
| ERD10TL : Chip type Carbon | 12 : 1/2W | |
| ERX : Metal Film | S2 : 1/4W | |

| Capacitor Type | Voltage | | Tolerance |
|-----------------------------------|-----------|--------------|---------------------|
| | ECEA Type | Others | |
| ECE : Electrolytic | 0J : 6.3V | 1H : 50V DC | C : $\pm 0.25\mu F$ |
| ECEA...N : Non Polar Electrolytic | 1C : 16V | KC : 125V AC | K : $\pm 10\%$ |
| ECCD : Ceramic | 1E : 25V | 2H : 500V DC | Z : +80%, -20% |
| ECKD : Ceramic | 1H : 50V | D : 25V DC | P : +100%, -0% |
| ECQM : Polyester | 2A : 100V | | |
| ECFT : Semiconductor Ceramic | 66V : 66V | | |

RESISTORS

| Ref. No. | Part No. | Value |
|-----------|---------------------|-------|
| R71, 72 | ERD10TLJ334U | 330K |
| R73, 74 | ERD10TLJ102U | 1K |
| R75, 76 | ERD10TLJ124U | 120K |
| R77, 78 | ERD10TLJ103U | 10K |
| R79, 80 | ERD10TLJ220U | 22 |
| R101, 102 | ERDS2TJ181 | 180 |
| R201, 202 | ERDS2TJ391 | 390 |
| R203, 204 | ERDS2TJ224 | 220K |
| R205, 206 | ERDS2TJ563 | 56K |
| R207, 208 | ERDS2TJ271 | 270 |
| R209, 210 | ERDS2TJ184 | 180K |
| R211, 212 | ERDS2TJ123 | 12K |
| R213, 214 | ERDS2TJ563 | 56K |
| R215, 216 | ERDS2TJ102 | 1K |
| R301, 302 | ERDS2TJ562 | 5.6K |
| R303, 304 | ERDS2TJ223 | 22K |
| R305, 306 | ERDS2TJ392 | 3.9K |
| R307, 308 | ERDS2TJ182 | 1.8K |
| R309, 310 | ERDS2TJ821 | 820 |
| R311, 312 | ERDS2TJ474 | 470K |
| R313, 314 | ERDS2TJ563 | 56K |
| R315, 316 | ERDS2TJ474 | 470K |
| R317, 318 | ERDS2TJ222 | 2.2K |
| R401, 402 | ERDS2TJ124 | 120K |
| R403, 404 | ERDS2TJ392 | 3.9K |
| R405, 406 | ERDS2TJ102 | 1K |
| R407 | Δ ERD25FJ121 | 120 |
| R408 | ERDS2TJ392 | 3.9K |
| R409, 410 | ERX2SJR22H | 0.22 |
| R411, 412 | Δ ERDS2TJ472 | 4.7K |

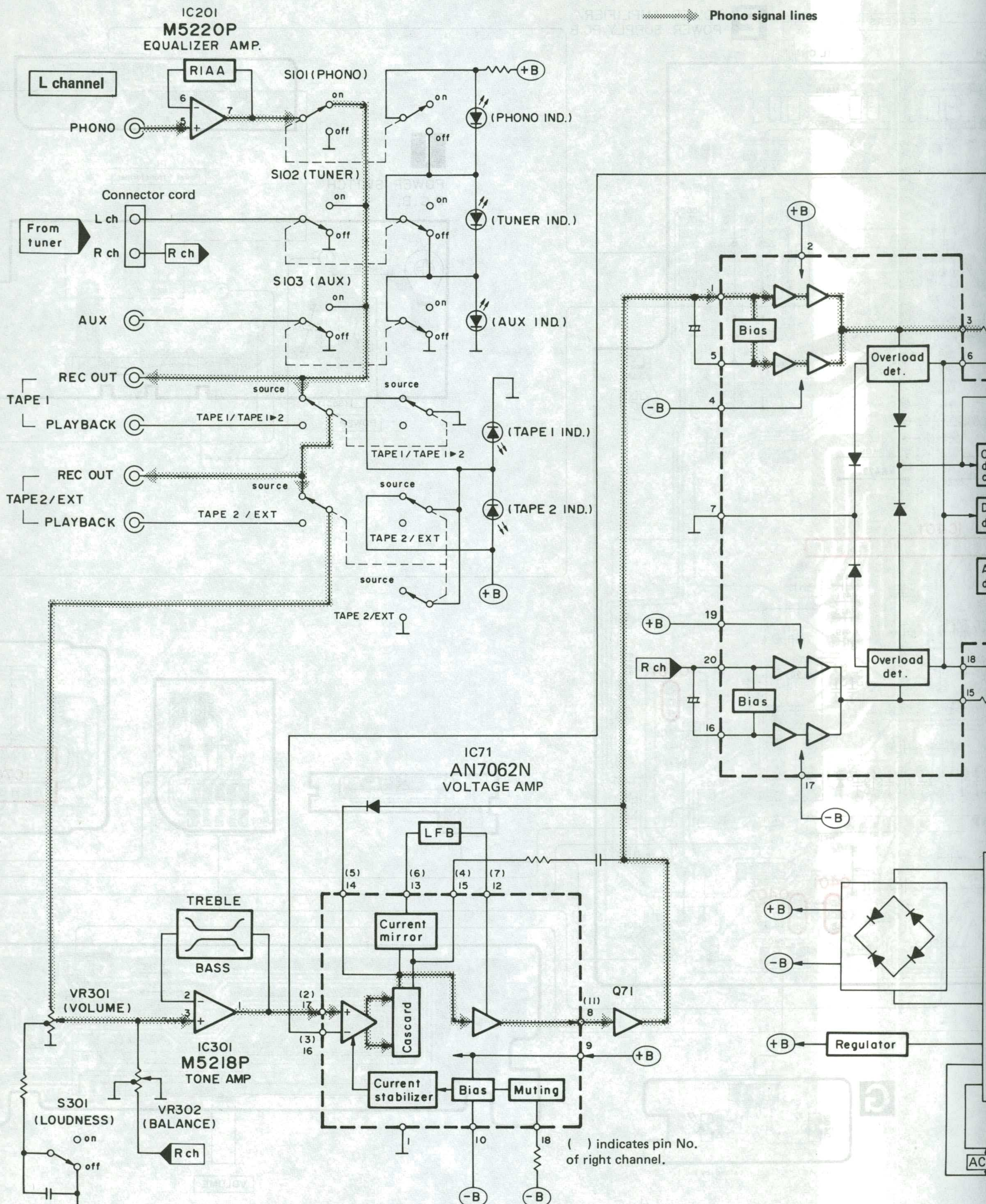
| Ref. No. | Part No. | Value |
|-----------|----------------------|-------|
| R413, 414 | ERDS2TJ562 | 5.6K |
| R415, 416 | ERDS2TJ100 | 10 |
| R417 | Δ ERDS2TJ824 | 820K |
| R418 | Δ ERG2ANJ122 | 1.2K |
| R419 | ERDS2TJ221 | 220 |
| R420 | ERDS2TJ123 | 12K |
| R421 | ERDS2TJ562 | 5.6K |
| R422 | ERDS2TJ472 | 4.7K |
| R423 | ERDS2TJ181 | 180 |
| R425, 426 | ERG2ANJ331 | 330 |
| R427, 428 | ERDS2TJ392 | 3.9K |
| [MC] only | | |
| R429, 430 | ERX2SJR22H | 0.22 |
| R501 | Δ ERG2ANJ222 | 2.2K |
| R502 | Δ ERG2ANJ182 | 1.8K |
| R503 | ERDS2TJ102 | 1K |
| R504 | ERD25FJ470 | 47 |
| R505 | Δ ERC12ZGK335 | 3.3M |
| R506 | ERD25FJ470 | 47 |
| R701, 702 | ERDS2TJ222 | 2.2K |
| R703, 704 | ERDS2TJ222 | 2.2K |
| R705, 706 | ERDS2TJ153 | 15K |
| R707, 708 | ERDS2TJ104 | 100K |
| R709, 710 | ERDS2TJ391 | 390 |
| R711, 712 | ERDS2TJ224 | 220K |
| R713, 714 | ERDS2TJ222 | 2.2K |
| R715, 716 | ERDS2TJ180 | 18 |
| R717, 718 | ERDS2TJ393 | 39K |

CAPACITORS

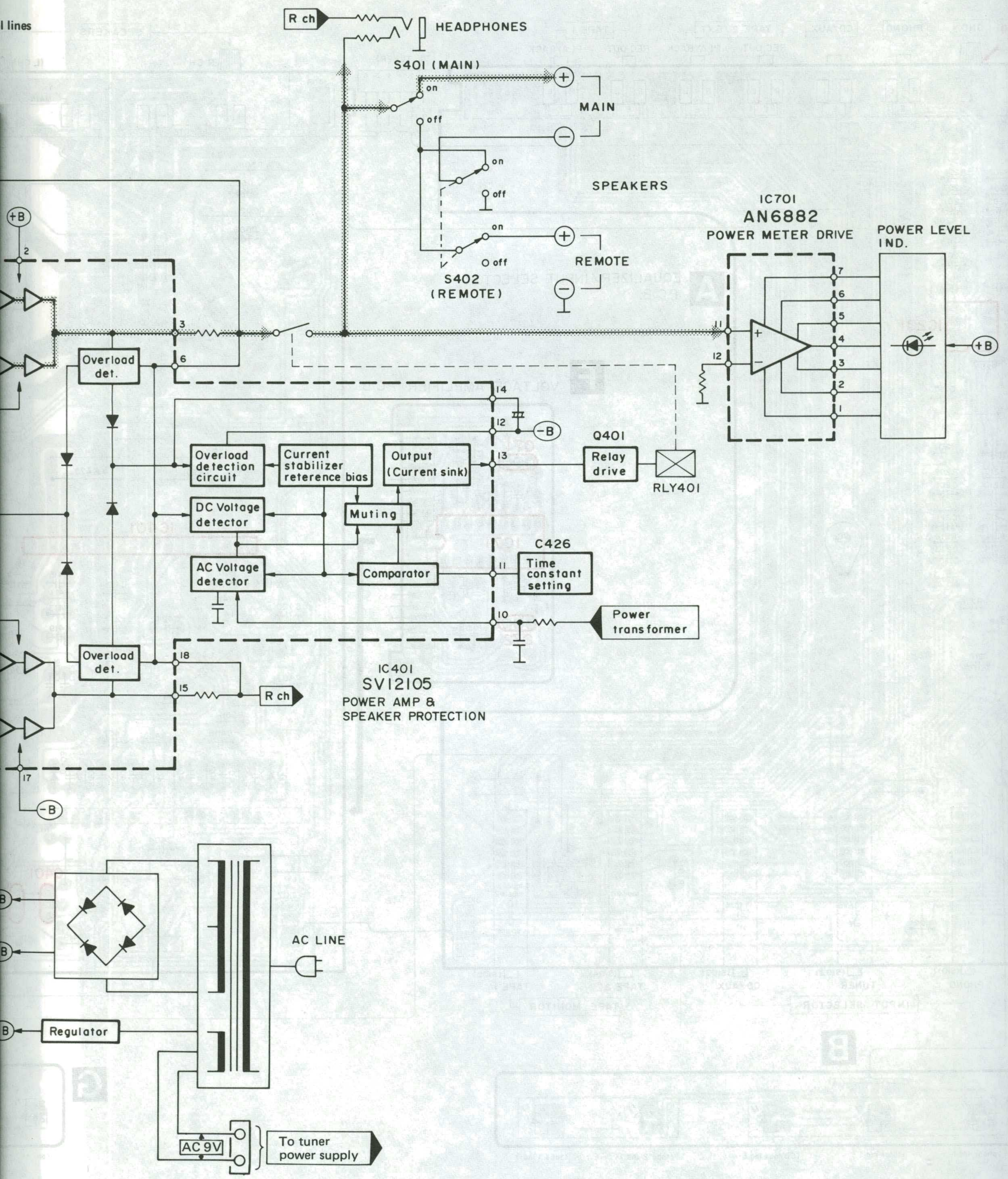
| Ref. No. | Part No. | Value |
|-----------|----------------------|--------|
| C71, 72 | ECEA1HU3R3 | 3.3 |
| C73, 74 | Δ ECCD1H390K | 39P |
| C75, 76 | Δ ECCD1H820K | 82P |
| C77, 78 | Δ ECKD1H391KB | 390P |
| C113, 114 | Δ ECKD1H103ZF | 0.01 |
| C201, 202 | ECEA1HU3R3 | 3.3 |
| C203, 204 | Δ ECCD1H101K | 100P |
| C205, 206 | Δ ECKD1H102KB | 0.001 |
| C207, 208 | ECEA0JU330 | 33 |
| C209, 210 | ECFTD223KXL | 0.022 |
| C211, 212 | ECFTD682KXL | 0.0068 |
| C213, 214 | ECEA1HU010 | 1 |
| C215, 216 | Δ ECKD1H103ZF | 0.01 |
| C217, 218 | ECEA1EU100 | 10 |
| C301, 302 | ECFTD563KXL | 0.056 |
| C303, 304 | ECFTD123KXL | 0.012 |
| C305, 306 | ECFTD683KXL | 0.068 |
| C307, 308 | ECFTD472KXL | 0.0047 |
| C309, 310 | ECFTD223KXL | 0.022 |
| C311, 312 | Δ ECCD1H560K | 56P |
| C313, 314 | ECEA1CU100 | 10 |
| C315, 316 | Δ ECKD1H331KB | 330P |
| C317, 318 | ECEA1EU4R7 | 4.7 |
| C319, 320 | Δ ECCD1H101K | 100P |
| C401, 402 | Δ ECCD1H070CC | 7P |
| C403, 404 | ECEA1CU100 | 10 |
| C405, 406 | Δ ECKD1H821KB | 820P |
| C407, 408 | Δ ECCD1H220K | 22P |
| C409, 410 | Δ ECCD1H270K | 27P |
| C411 | ECEA2AU330 | 33 |

| Ref. No. | Part No. | Value |
|-----------|-----------------------|-------|
| C412 | Δ ECKD1H103ZF | 0.01 |
| C413, 414 | Δ ECCD1H101K | 100P |
| C415, 416 | Δ ECCD1H101K | 100P |
| C417, 418 | Δ ECEA1HN010S | 1 |
| C419, 420 | ECEA2AU100 | 10 |
| C421, 422 | Δ ECKD1H223ZF | 0.022 |
| C423 | ECEA0JU331 | 330 |
| C424 | ECEA2AU100 | 10 |
| C425 | Δ ECKD1H102KB | 0.001 |
| C426 | ECEA1HU330 | 33 |
| C501 | Δ ECKDKC103PF2 | 0.01 |
| C502 | Δ ECKD2H103PE | 0.01 |
| C503, 504 | Δ ECES66V802U | 8000 |
| C505 | ECEA1CU471 | 470 |
| C506 | Δ ECKD1H103ZF | 0.01 |
| C701, 702 | ECEA1HKS010 | 1 |
| C703, 704 | ECEA1HKS2R2 | 2.2 |

BLOCK DIAGRAM



l lines



CONTROL CIRCUIT

Bass control

Balance control

Bass control

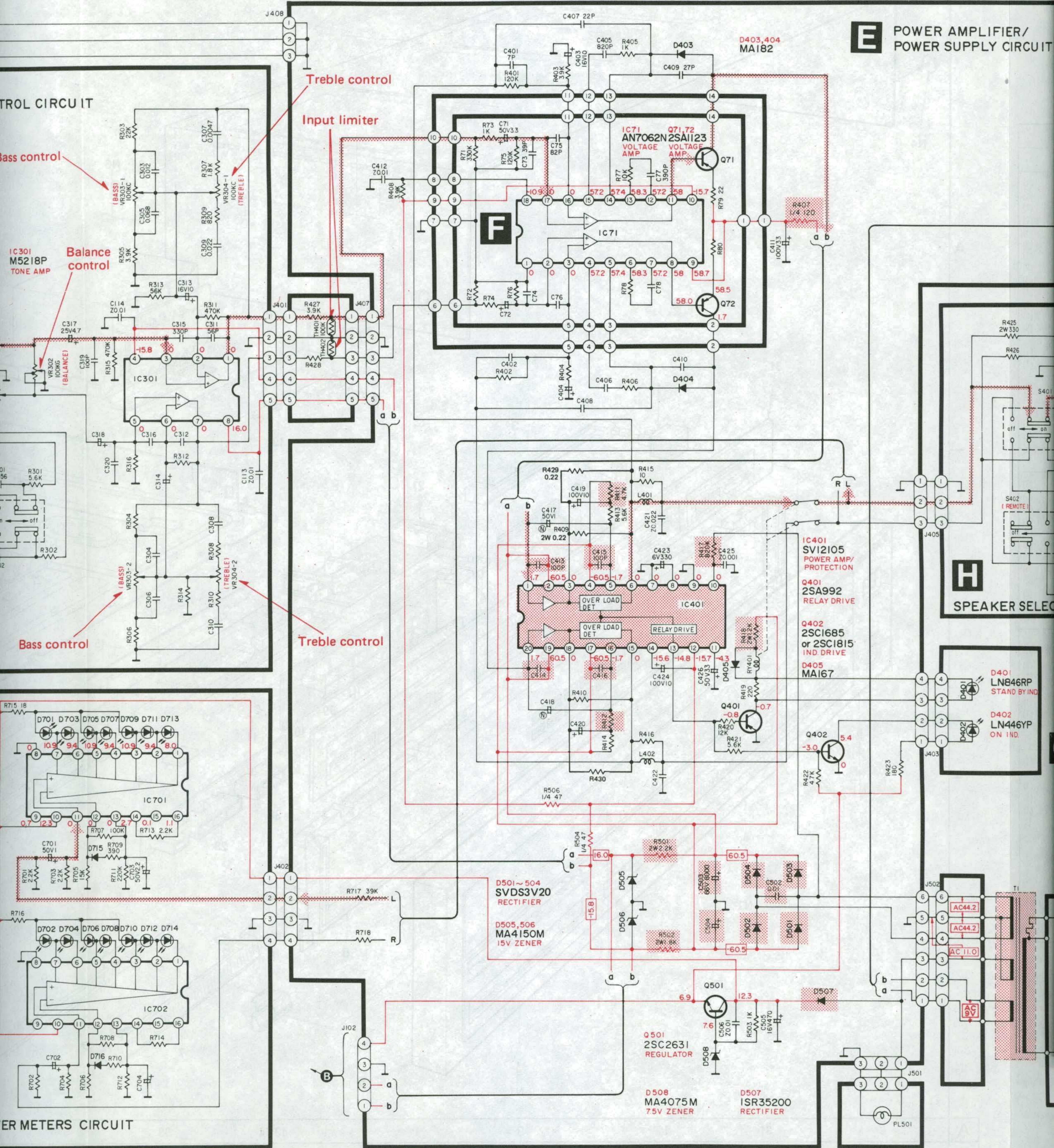
Treble control

Input limiter

Treble control

POWER METERS CIRCUIT

POWER AMPLIFIER/
POWER SUPPLY CIRCUIT



SCHEMATIC DIAGRAM

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

- The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with \star mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement part, please use the part No. in the replacement part list.

Notes:

1. **S101 ~ S103** : Input selector switch in "phono" position. (S101: phono S102: tuner S103: CD/aux)
2. **S104** : Tape monitor (tape2) switch in "source" position. (\blacksquare source, \blacktriangleleft tape 2/ext)
3. **S105** : Tape monitor (tape1) switch in "source" position. (\blacksquare source, \blacktriangleleft 1 \blacktriangleright 2)
4. **S301** : Loudness switch in "off" position. (\blacksquare off, \blacktriangleleft on)
5. **S401** : Main speaker selector switch in "on" position. (\blacksquare off, \blacktriangleleft on)
6. **S402** : Remote speaker selector switch in "on" position. (\blacksquare off, \blacktriangleleft on)
7. **S501** : Power source switch in "on" position. (\blacksquare off, \blacktriangleleft on)
8. 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.
9. $\color{red}\dashrightarrow$ Phono signal lines (L channel)
10. $\color{red}\text{---}$ Positive (+B) voltage lines or negative (-B) voltage lines.

IMPORTANT SAFETY NOTICE

The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.

When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

FUSE CAUTION

\blacksquare This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

\blacksquare Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n'utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

* Caution!

IC and LSI are sensitive to static electricity.

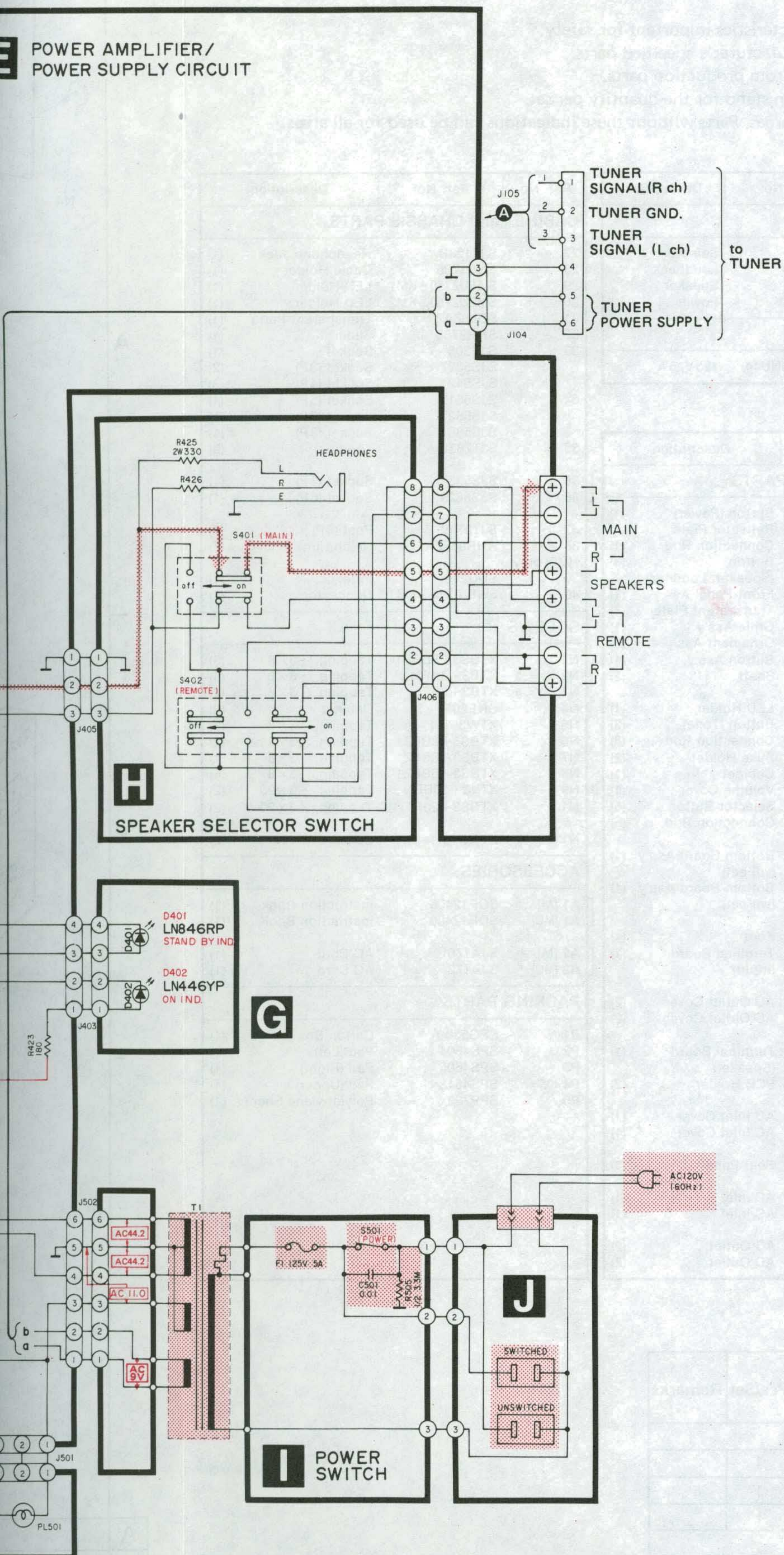
Secondary trouble can be prevented by taking care during repair.

* 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.



REPLACEMENT PARTS LIST

- Notes:**
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 2. 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.
 3. The "S" mark is service standard parts and may differ from production parts.
 4. The parenthesized numbers in the column of description stand for the quantity per set.
 5. Bracketed indications in Ref. No. columns specify the areas. Parts without these indications can be used for all areas.

| Ref. No. | Part No. | Description |
|----------------------------|-------------------|--------------------|
| INTEGRATED CIRCUITS | | |
| IC71 | AN7062N | Integrated Circuit |
| IC201 | M5220P | Integrated Circuit |
| IC301 | M5218P | Integrated Circuit |
| IC401 | Δ SVI2105 | Integrated Circuit |
| IC701, 702 | AN6882 | Integrated Circuit |
| TRANSISTORS | | |
| Q71, 72 | 2SA1123-R | Transistor |
| Q401 | 2SA992E | Transistor |
| Q402 | 2SC1685-QNC | Transistor |
| Q501 | 2SC2631-R | Transistor |
| DIODES | | |
| D101~103 | LN864RCP | LED |
| D104, 105 | LN464YCPU | LED |
| D401 | LN846RP | LED |
| D402 | LN446YP | LED |
| D403, 404 | MA182 | Diode |
| D405 | MA167 | Diode |
| D501~504 | Δ SVDS3V20 | Rectifier |
| D505, 506 | MA4150M | Diode |
| D507 | Δ 1SR35200 | Diode |
| D508 | MA4075M | Diode |
| D701~714 | LN463YCPPUMS | LED |
| D715, 716 | MA27W-A | Diode |
| COILS | | |
| L401, 402 | SLQY07G-30 | Choke |
| TRANSFORMERS | | |
| T1 [M] | Δ SLT5P240 | Transformer |
| T1 [MC] | Δ SLT5P241 | Transformer |
| VARIABLE RESISTORS | | |
| VR301 | EWAQA8X05B54 | Variable Resistor |
| VR302 | EWANF5X05G15 | Variable Resistor |
| VR303, 304 | EWANA6X05C15 | Variable Resistor |
| THERMISTERS | | |
| TH401, 402 | ERTD2ZHL104S | Thermister |
| RELAY | | |
| RY401 | SSY126 | Relay |
| LAMP | | |
| PL501 | XAMS6Q8C | Lamp |

| Ref. No. | Part No. | Description |
|-----------------|----------------------|-------------|
| SWITCHES | | |
| S101~105 | SSH564 | Selector |
| S301 | SSH1159 | Loudness |
| S401, 402 | SSH2094 | Speaker |
| S501 | Δ ESB8216V | Power |
| FUSE | | |
| F1 | Δ XBA1F50NU14 | 125V, 5A |

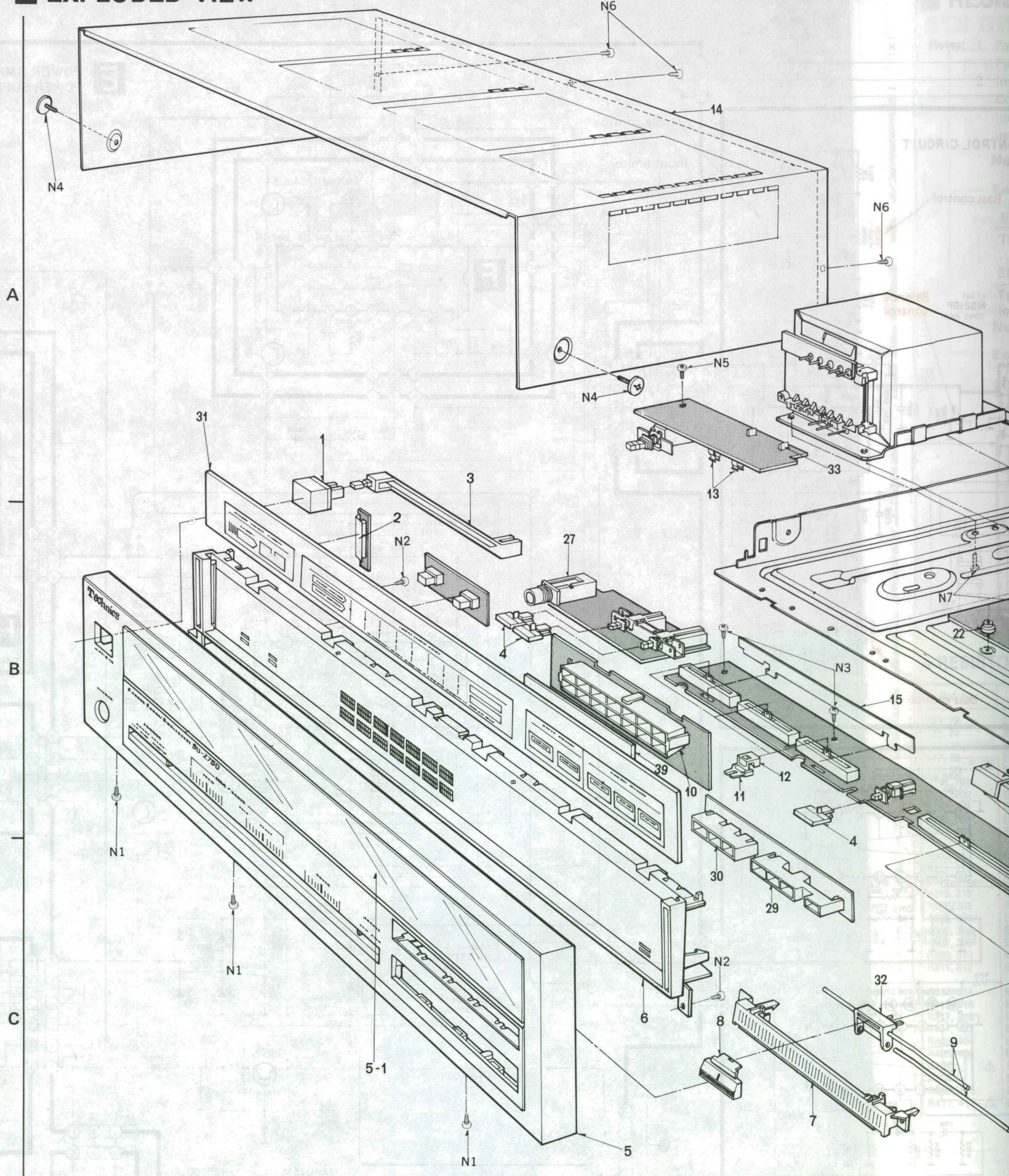
| Ref. No. | Part No. | Description |
|----------------------------------|-------------|---------------------------------|
| CABINET and CHASSIS PARTS | | |
| 1 | SBC666 | Button (Power) (1) |
| 2 | SMZ317-1 | Reflector Plate (1) |
| 3 | SUB233 | Connection Rod (1) |
| 4 | SBC723 | Button (3) |
| 5 | SGYUZ750-KM | Front Panel Ass'y (1) |
| 5-1 | (SGU456 | Transparent Plate (1) |
| 6 | SGXUZ950-KM | Grille Ass'y (1) |
| 7 | SGXUZ150-KE | Ornament Ass'y (1) |
| 8 | SXE1108 | Button Ass'y (1) |
| 9 | SUH609 | Shaft (2) |
| 10 | SMP391-1 | LED Holder (1) |
| 11 | SBD79-1 | Button (Tone) (3) |
| 12 | SHR9770 | Connection Rod (3) |
| 13 | SJT389 | Fuse Holder (2) |
| 14 | SKC1760K991 | Cabinet (1) |
| 15 | SHR5299-6 | Volume Cover (1) |
| 16 | SBC722 | Selector Button (5) |
| 17 | SUB228 | Connection Rod (5) |
| 18 [M] | SKUUZ950-KM | Bottom Board Ass'y (w/Feet) (1) |
| 18 [MC] | SKUUZ950-KC | Bottom Board Ass'y (w/Feet) (1) |
| 18-1 | (SKL293 | Foot (4) |
| 19 | SJF3062-3N | Terminal Board (Input) (1) |
| 20 [M] | SJS9232A | AC Outlet Cover (2) |
| 20 [MC] | SJS9233A | AC Outlet Cover (2) |
| 21 | SJF4818 | Terminal Board (Speaker) (1) |
| 22 | SHE187 | PCB Holder (2) |
| 23 [M] | SJS9231A | AC Inlet Cover (1) |
| 23 [MC] | SJS9234A | AC Inlet Cover (1) |
| 24 | SGP6560A | Rear Panel (1) |
| 25 [M] Δ | SJS9231B | AC Inlet (1) |
| 25 [MC] Δ | SJS9234B | AC Inlet (1) |
| 26 [M] Δ | SJS9232B | AC Outlet (2) |
| 26 [MC] Δ | SJS9233B | AC Outlet (2) |

| Ref. No. | Part No. | Description |
|----------------------------------|-------------------------------------|-----------------------------------|
| CABINET and CHASSIS PARTS | | |
| 27 | SJJ126B | Headphone Jack (1) |
| 28 | SGE1735 | Cable Holder (1) |
| 29 | SMPUZ750-KM1 | LED Holder (1) |
| 30 | SMPUZ750-KM2 | LED Holder (1) |
| 31 | SDL88A | Transparent Plate (1) |
| 32 | SHR9765 | Slider (1) |
| 33 | SJS305 | Socket (1) |
| | SJS5327 | Socket (3P) (2) |
| | SJS5421 | Socket (4P) (3) |
| 34 | SJS5519 | Socket (5P) (1) |
| | SJS5627 | Socket (6P) (1) |
| | SJS5807 | Socket (8P) (1) |
| | SJT783 | Terminal (9) |
| 36 | SJS5331 | Socket (3P) (1) |
| 36 | SJS5629 | Socket (6P) (1) |
| 37 | SJT3319 | Post (3P) (1) |
| 38 | RHR969ZA | Nylon Pin (1) |
| | [MC] only | |
| 39 | SDU279 | Filter (1) |
| 40 | SWKUZ750-KM1 | Connector (1) |
| SCREWS | | |
| N1 | XTBS3+8BFZ1 | Tapping, $\oplus 3 \times 8$ (3) |
| N2 | $\text{\textcircled{S}}$ XTBS3+8BFN | Tapping, $\oplus 3 \times 8$ (3) |
| N3 | $\text{\textcircled{S}}$ XTBS3+8BFN | Tapping, $\oplus 3 \times 8$ (2) |
| N4 | SNE2095-5 | Cabinet (2) |
| N5 | XTW3+8T | Tapping, $\oplus 3 \times 8$ (3) |
| N6 | XTBS3+8BFZ1 | Tapping, $\oplus 3 \times 8$ (3) |
| N7 | XTBS3+8BFZ1 | Tapping, $\oplus 3 \times 8$ (4) |
| N8 | XTBS3+8BFZ1 | Tapping, $\oplus 3 \times 8$ (6) |
| N9 | XTV3+20BFN | Tapping, $\oplus 3 \times 20$ (2) |
| N10 | XTBS3+20F1 | Tapping, $\oplus 3 \times 20$ (2) |
| N11 | XYN3+F14 | Screw, $\oplus 3 \times 14$ (2) |
| ACCESSORIES | | |
| A1 [M] | SQF12405 | Instruction Book (1) |
| A1 [MC] | SQF12406 | Instruction Book (1) |
| A2 [M] Δ | SJA170 | AC Cord (1) |
| A2 [MC] Δ | SJA172 | AC Cord (1) |
| PACKING PARTS | | |
| P1 | SPG5300 | Carton Box (1) |
| P2 | SPS4604 | Pad (Left) (1) |
| P3 | SPS4605 | Pad (Right) (1) |
| P4 | SPS4613 | Pad (Upper) (1) |
| P5 | SPP723 | Polyethylene Sheet (1) |

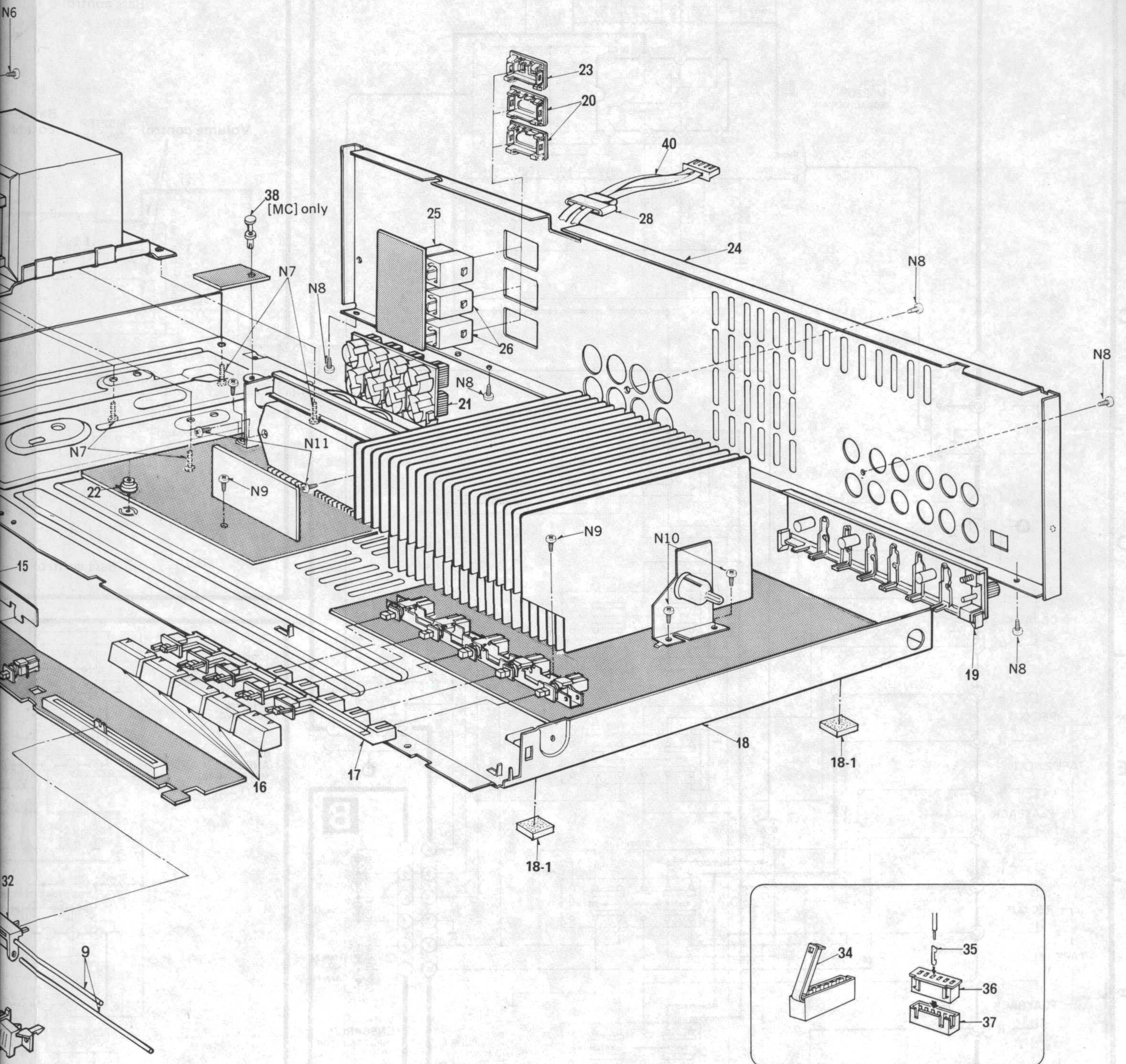
Change of Parts List (SU-Z950 from SU-Z750)

| Ref. No. | Change of Parts No. | | Part Name & Description | Pcs/Set | Remarks |
|----------------------------------|---------------------|-----------------|-------------------------|---------|---------|
| | SU-Z750 [M, MC] | SU-Z950 [M, MC] | | | |
| CABINET and CHASSIS PARTS | | | | | |
| 5 | SGYUZ750-KM | SGYUZ950-KM | Front Panel Ass'y | 1 | |
| 24 | SGP6560A | SGP6560B | Rera Panel | 1 | |
| 31 | SDL88A | SDL88B | Transparent Plate | 1 | |
| PACKING PARTS | | | | | |
| P1 | SPG5300 | SPG5302 | Carton Box | 1 | |

EXPLODED VIEW



| | | | | | | | | | | | | | | |
|---|----|-----|---|---|----|----|----|-------|----|----|----|----|--|--|
| A | 31 | 1 | 3 | | | | | 13 14 | | 33 | | | | |
| B | | | 2 | 4 | 27 | 39 | 10 | 11 | 12 | 4 | 15 | 22 | | |
| C | | 5-1 | | 5 | 6 | 30 | 8 | 29 | 7 | 32 | | 9 | | |



| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|------|----|----|------|----|--|----|----|----|--|----------|
| | | 38 | | 25 | | 23 | 20 | | 28 | 40 | 24 | | | | | | | |
| 15 | 22 | | | | 21 | 26 | | | | | | | | | | | | 19 |
| 32 | 9 | | 16 | 17 | | | | 18-1 | | 18 | 18-1 | 34 | | 35 | 36 | 37 | | 35 36 37 |