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Stereo Integrated Amplifier

SU-A707

Colour

(K).....Black Type

Areas

(E).....Europe and Russia.

(EB).....Great Britain.

(EG).....Germany, France and Italy.

Service Manual



Specifications (DIN 45 500)

20 Hz – 20 kHz continuous power output

both channels driven: $2 \times 45 \text{ W (8 } \Omega \text{)}$

1 kHz continuous power output

both channels driven (THD: 1 %):
 $2 \times 55 \text{ W (8 } \Omega \text{)}$
 $2 \times 70 \text{ W (4 } \Omega \text{)}$

63 Hz – 12.5 kHz continuous power output

both channels driven (THD: 0.7 %):
 $2 \times 50 \text{ W (8 } \Omega \text{)}$
 $2 \times 70 \text{ W (4 } \Omega \text{)}$

Total harmonic distortion

rated power at 20 Hz – 20 kHz: 0.03 % (8 Ω)

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

rated power at 1 kHz: 0.007 % (8 Ω)

Residual hum and noise: 1 mV

Damping factor: 60 (8 Ω), 30 (4 Ω)

Headphones output level/impedance: 540 mV/330 Ω

Load impedance:

A or B, BI-WIRING; $4 \Omega - 16 \Omega$

A and B; $8 \Omega - 16 \Omega$

Input sensitivity/impedance:

Frequency response:

PHONO MM; RIAA standard curve $\pm 1 \text{ dB}$
 (30 Hz – 15 kHz)

TUNER, CD, DVD, AUX, TAPE 1, TAPE 2/MD;
 3 Hz – 100 kHz (+0 dB, -3 dB)
 +0 dB, -0.3 dB (20 Hz – 20 kHz)

Tone controls:

BASS; 50 Hz, +10 to -10 dB
 TREBLE; 20 kHz, +10 to -10 dB

Muting (remote control only): $-\infty$

Output voltage:

TAPE 1, TAPE 2/MD REC OUT; 150 mV

Channel balance (AUX, 250 Hz – 6.3 kHz): $\pm 1 \text{ dB}$

Channel separation (AUX, 1 kHz): 50 dB

■ GENERAL

Power supply:

For (E) and (EG) areas; AC 50 Hz, 230 V

For (EB) area: AC 50 Hz, 230 V – 240 V

| | |
|---|---------------------------------|
| Input sensitivity/impedance: | |
| PHONO MM; | 2.5 mV/47 k Ω |
| TUNER, CD, DVD, AUX, TAPE 1, TAPE 2/MD; | 150 mV/22 k Ω |
| Phono maximum input voltage (1 kHz, RMS): | |
| MM; | 150 mV (IHF' 66) |
| S/N (rated power, 4 Ω): | |
| PHONO MM; | 75 dB (76 dB, IHF' 66) |
| TUNER, CD, DVD, AUX, TAPE 1, TAPE 2/MD; | 102 dB (100 dB, IHF' 66) |
| | 114 dB (S=2 V, IHF A weighting) |
| S/N at -26 dB power (4 Ω): | |
| PHONO MM; | 74 dB |
| TUNER, CD, DVD, AUX, TAPE 1, TAPE 2/MD; | 87 dB |
| S/N at 50 mW (4 Ω): | |
| PHONO MM; | 73 dB |
| TUNER, CD, DVD, AUX, TAPE 1, TAPE 2/MD; | 81 dB |

| | |
|--|----------------------------------|
| For (EB) area; | AC 50 Hz, 230 V – 240 V |
| Power consumption: | 200 W |
| Standby; | 1.5 W |
| Dimensions (W \times H \times D): | 430 \times 136 \times 368 mm |
| Weight: | 7.4 kg |

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.
3. For (EB) area: The specification values given have been measured while using a 240 V-power supply

1 Before Repair

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1. Turn off the power supply. Using a 10Ω , 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
2. Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230/240 V.

| | | |
|----------------------|-----------------|-----------------|
| Power supply voltage | AC 230 V, 50 Hz | AC 240 V, 50 Hz |
| Consumed current | 70-270 mA | 60-260 mA |

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2 Protection Circuitry

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

No sound is heard when the power is switched ON.

Sound stops during a performance.

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

If this occurs, follow the procedure outlined bellow:

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 ON again.

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3 Accessories

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AC mains lead

(E) and (EG) areas : (RJA0019-X)..... 1 pc.

(EB) area : (RJA0053-2X).....1 pc.



Remote control transmitter

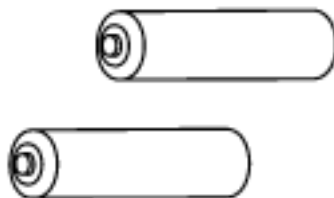
(RAK-SUA11WH).....1 pc.



Batteries

(R6/LR6, AA, UM-3).....2 pcs.

Note: These are available on sales route.



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4 Caution for AC Mains Lead

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(For United Kingdom)



("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT


The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

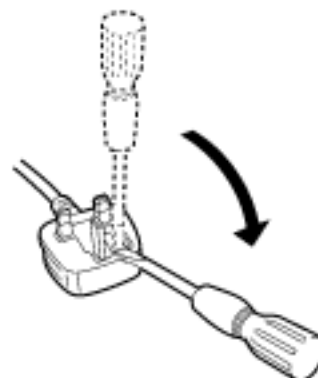
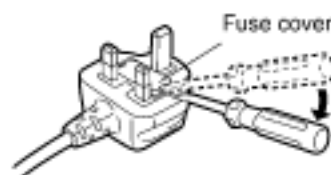


Figure B

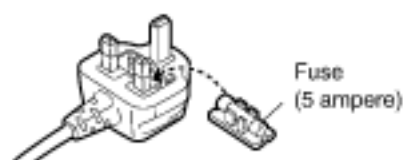


2. Replace the fuse and close or attach the fuse cover.

Figure A



Figure B



5 Operations

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6 Operation Checks and Component Replacement/Procedures

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- NOTE**
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
 2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
 3. Select item from the following index when checks or replacement are required.

● Contents

■ Checking Procedures for each P.C.B.

1. Checking for the volume P.C.B. and operation P.C.B..
2. Checking for the main P.C.B..

■ Main Component Replacement Procedures

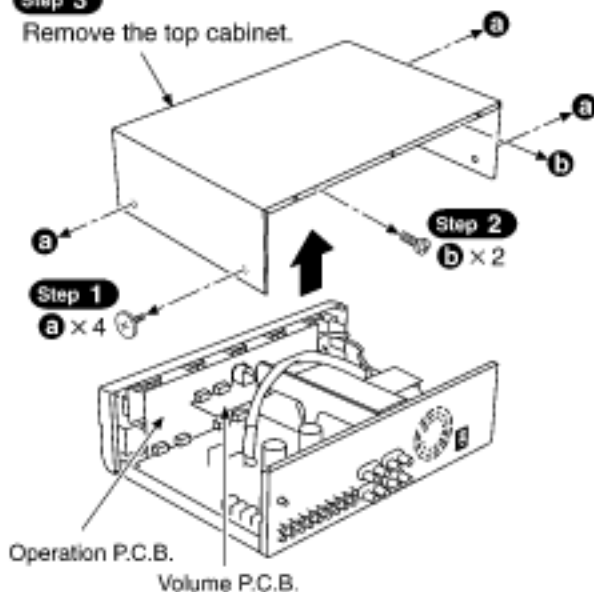
1. Replacement for the power IC and regulator transistor.

■ Checking Procedures for each P.C.B.

1. Checking for the volume P.C.B. and operation P.C.B.

Step 3

Remove the top cabinet.



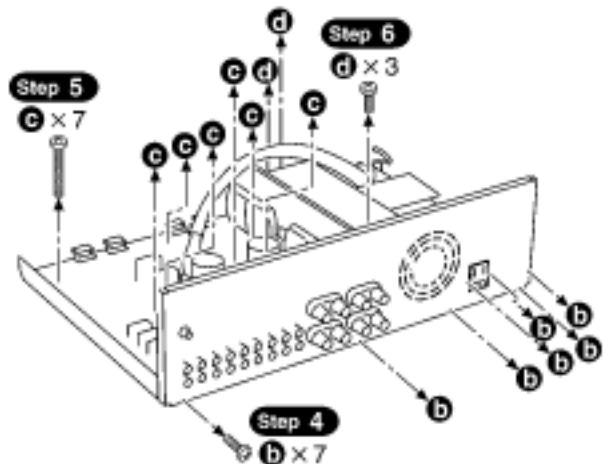
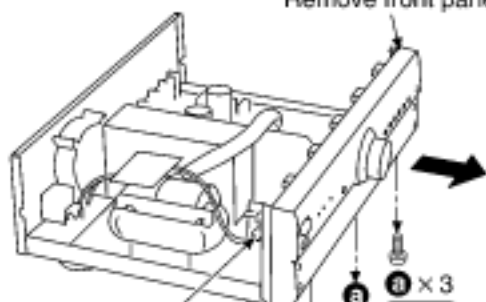
- Check the volume P.C.B. and operation P.C.B. as shown above.

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

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedures for each P.C.B..

Step 3

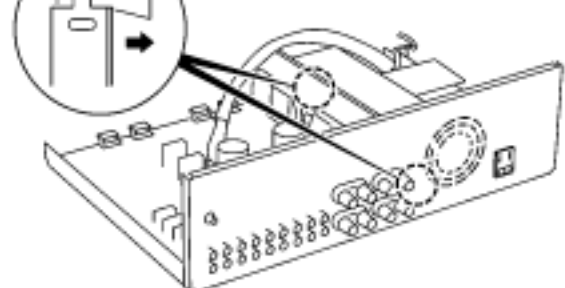
Remove front panel ass'y.



Hook

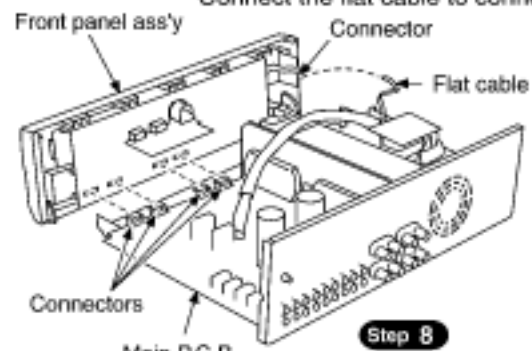
Step 7

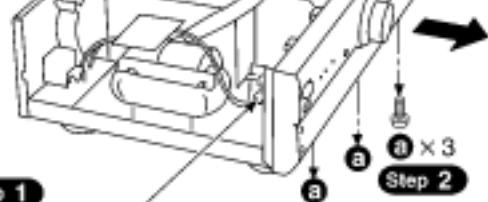
Release the hooks



Step 9

Connect the flat cable to connector.

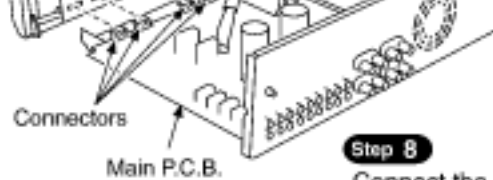




Step 1

Remove the flat cable from connector.

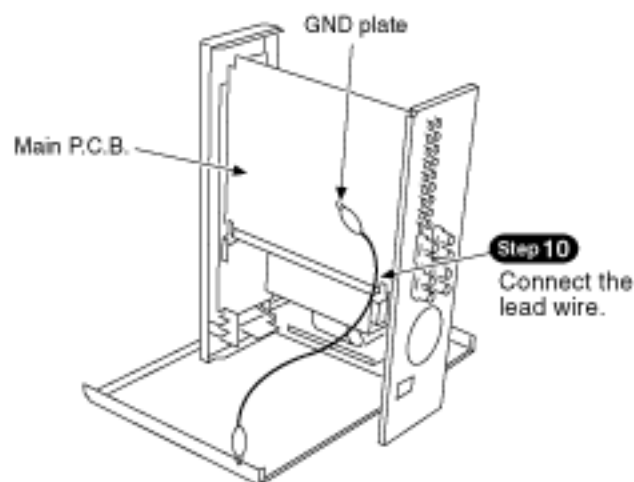
Step 2
a x 3



Step 8

Connect the front panel ass'y of the P.C.B. connectors to the main P.C.B..

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



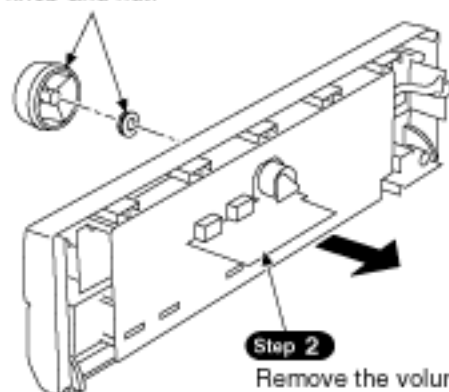
Step 10
Connect the lead wire.

To remove each P.C.B.

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedures for each P.C.B..
- Follow the **Step 1** ~ **Step 3** of the item 2 in checking procedures for each P.C.B..

Step 1

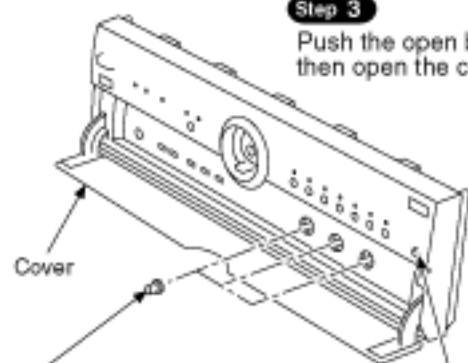
Remove the volume knob and nut.



Step 2
Remove the volume P.C.B..

Step 3

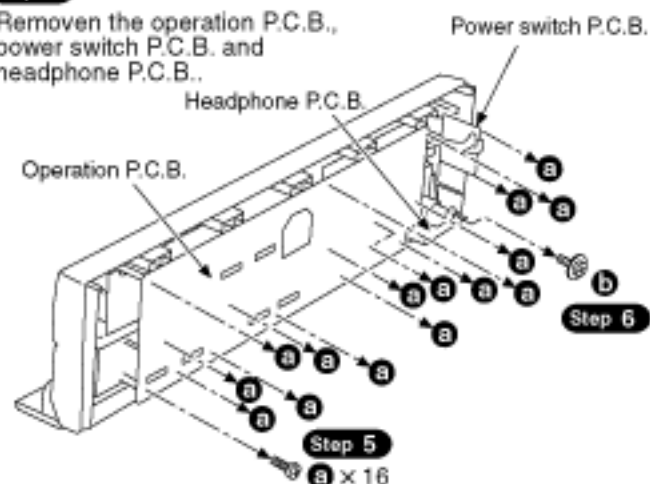
Push the open button, and then open the cover.



Step 4

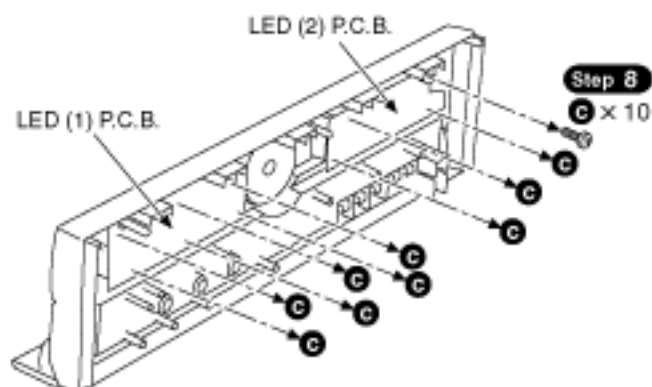
Step 7

Remove the operation P.C.B., power switch P.C.B. and headphone P.C.B..



Step 9

Remove the LED (1) P.C.B. and LED (2) P.C.B..



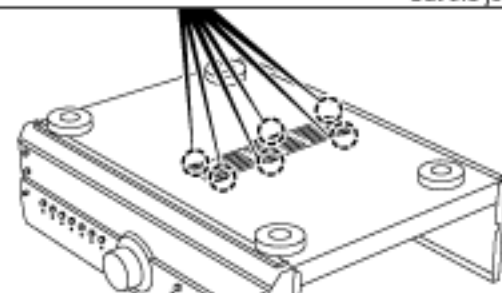
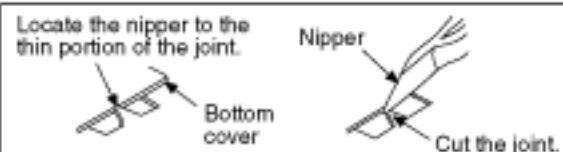
Main Component Replacement Procedures

1. Replacement for the power IC and regulator transistor

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedures for each P.C.B..

Step 1

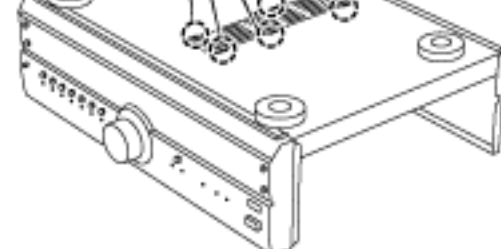
Cut the joints as shown below. (6 portions)



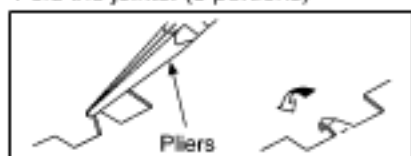
Cover

Step 4
Pull out the 3 knobs.

Open button

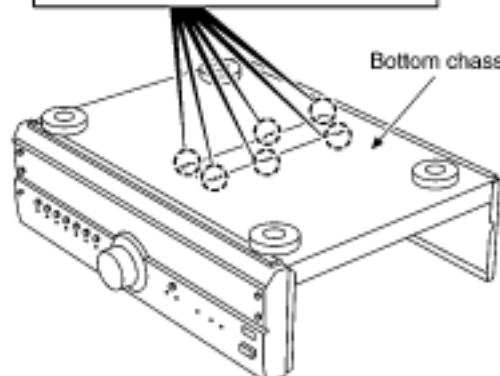


Step 2
Fold the joints. (6 portions)

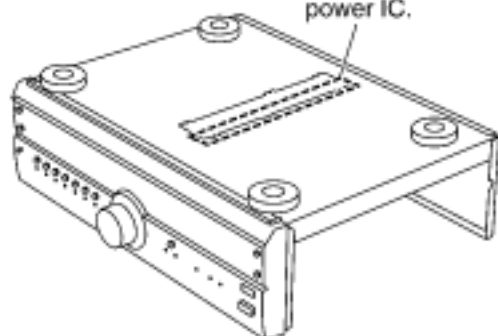


Pliers

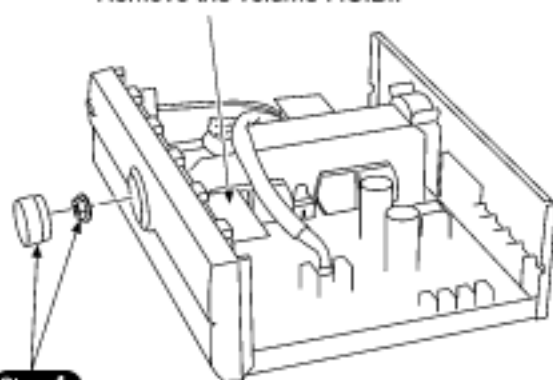
Bottom chassis ass'y



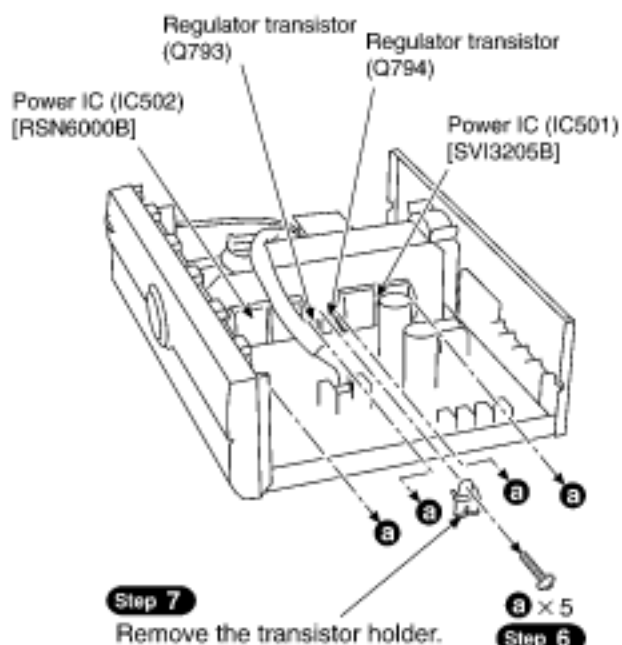
Step 3
Unsolder the terminals of power IC.



Step 5
Remove the volume P.C.B..



Step 4
Remove the volume knob and nut.



Step 7
Remove the transistor holder.

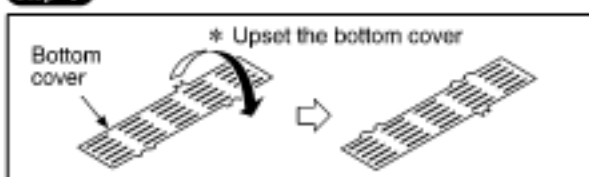
a × 5
Step 6

NOTE

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

Installation of the bottom cover after replacement

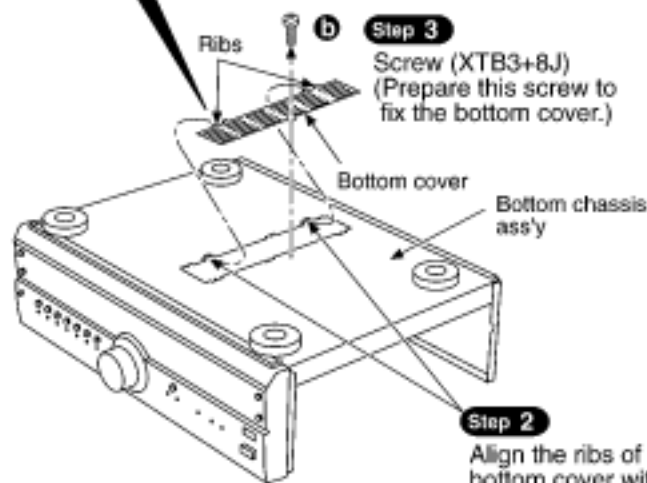
Step 1



Bottom cover

* Upset the bottom cover

Step 3
Screw (XTB3+8J)
(Prepare this screw to fix the bottom cover.)



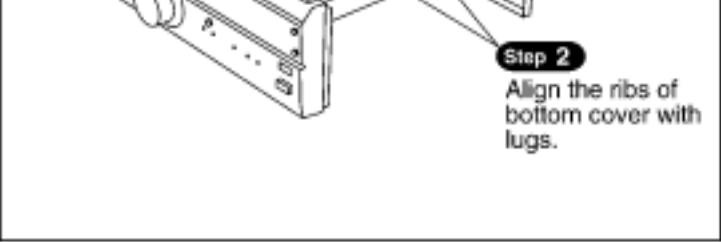
Ribs

b

Bottom cover

Bottom chassis ass'y

Step 2
Align the ribs of bottom cover with lugs.



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7 About the +/- 15 V Line Abnormality Detect Function

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1. This model features the function that shuts down the main power source when it check the ± 15 V line with the IC801 (microcomputer) and find the different voltage. (After power is turned on, the unit enters the stand-by mode.)
2. When the unit enters stand-by mode with abnormality detected, check the circuits around the ± 15 V line. (Specially check the abnormality of the stabilizing power source circuit.)
3. To clear this stand-by mode, short-circuit the TP801 land on the circuit board. However, clearance of the stand-by mode and turn on the electricity when the repair is not completed may lead to another trouble. Therefore, be especially careful to do so. (Do not turn on the electricity for a long time.)
4. When the repair is completed, leave the TP801 open.

[7.1 About the abnormality detect function with the operation LED turned off](#)

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7.1 About the abnormality detect function with the operation LED turned off

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1. If the operation LED is turned off, there are possibilities of the following abnormalities in addition to the LED itself malfunctioning:
2. Power amplifier's malfunction by the speaker terminal short-circuit.
3. Malfunction of cooling fan.

The unit features the function that detects above abnormalities.

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8 Schematic Diagram

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[8.1 Schematic Diagram Notes](#)

[8.2 Schematic Diagram](#)

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8.1 Schematic Diagram Notes

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

Notes:

S204:

Unit on/off switch (/I)

S801:

Input select switch (TAPE 1)

S802:

Input select switch (TAPE 2/MD)

S803:

Input select switch (AUX)

S804:

Input select switch (DVD)

S805:

Input select switch (CD)

S806:

Input select switch (TUNER)

S807:

Input select switch (PHONO)

S808:

VGCA switch ()

S809:

Tape monitor (SOURCE) switch (TAPE MONITOR)

S810:

Tape monitor (TAPE 2/MD) switch (TAPE MONITOR)

S811:

Tape monitor (TAPE 1) switch (TAPE MONITOR)

S812:

Speaker select switch (SPEAKER B)

S813:

Speaker select switch (SPEAKER A)

VR201:

Volume control VR (VOLUME)

VR202:

Balance control VR (BALANCE)

VR203:

Output voltage adjustment VR (L ch)

VR204:

Output voltage adjustment VR (R ch)

VR301:

Tone control VR (BASS)


VR302:

Tone control VR (TREBLE)

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

No mark : Power ON

Important safety notice:

Components identified by  mark have special characteristics important for safety.

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

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

Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

Voltage and signal line

: Positive voltage line

: Negative voltage line

: Phono signal line

: Tape rec signal line

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8.2 Schematic Diagram

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9 Printed Circuit Board Diagram

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10 Wiring Connection Diagram

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11 Type Illustration of ICs, Transistors and Diodes

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12 Block Diagram

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13 Measurements and Adjustments

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[13.1 Measuring Instruments and Special Tools](#)

[13.2 Output Voltage Adjustment](#)

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13.1 Measuring Instruments and Special Tools

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AC electronic voltmeter (AC EVM)

AF oscillator

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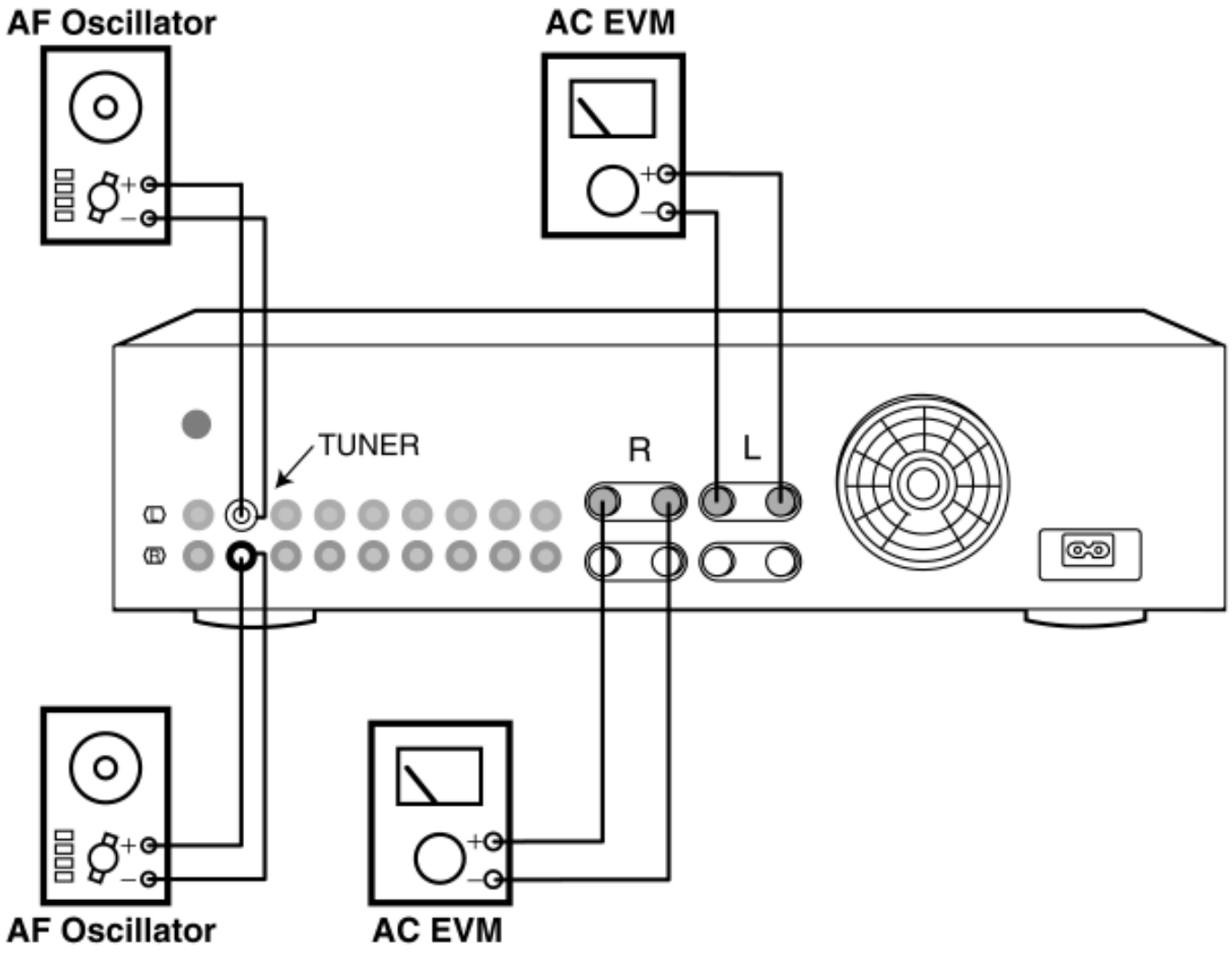
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13.2 Output Voltage Adjustment

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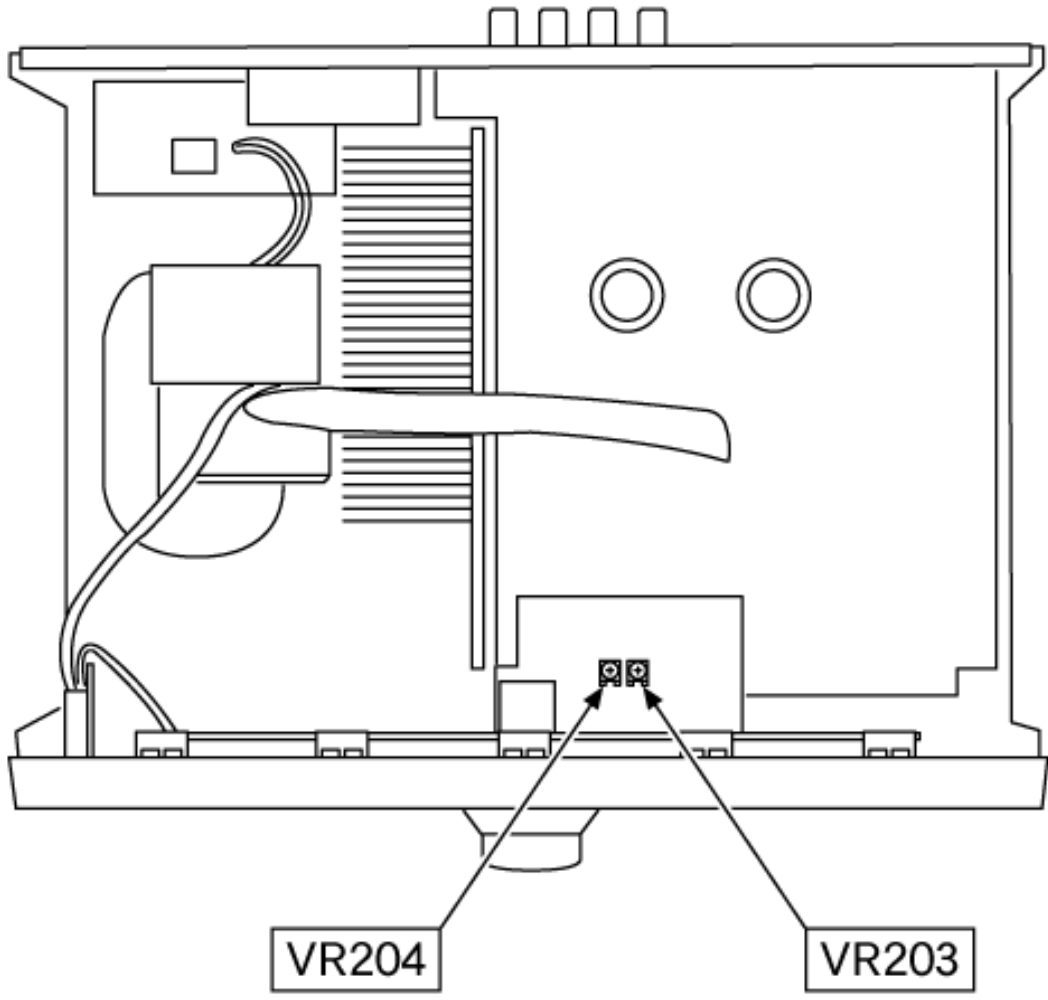
1. Turn on the power.
2. Select the input source to TUNER.
3. Connect the measuring instrument as shown [Fig.1](#)
4. Apply 1 kHz, 100 mV to TUNER terminal.
5. Adjust the VOLUME to maximum.
6. Adjust [VR203](#) (L ch) and [VR204](#) (R ch) so that the output voltage to AC 14.0 ± 0.2 V. Shown in [Fig.2](#)

Fig.1



Adjustment point

Fig.2



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14 Terminal Function of ICs

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[14.1 IC801 \(M38503M2405F\) : System Control](#)

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14.1 IC801 (M38503M2405F) : System Control

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| Pin No. | Name | I/O | Function |
|---------|------------|-----|--|
| 1 | VCC | I | Power supply terminal |
| 2 | VREF | I | Reference voltage input |
| 3 | AGND | - | GND terminal |
| 4 | MUTE LED | O | LED drive signal output (Mute) |
| 5 | STBY LED | O | LED drive signal output (Stand by) |
| 6 | REMCON | I | Remote control signal input |
| 7 | BACKUP | I | Power failure detect signal input |
| 8 | NC | - | Not used, connected to GND |
| 9 | SEL DATA | O | Data signal output for input select IC (IC201) |
| 10 | SEL CLK | O | Clock signal output for input select IC (IC201) |
| 11 | SEL STB | O | Strobe signal output for input select IC (IC201) |
| 12 | POWER SW | I | Power switch (S204) detect signal input |
| 13 | LED O | - | Not used, open |
| 14 | LED C | O | Input select LED drive signal output |
| 15 | CNVSS | - | Connected to GND |
| 16 | LED B | O | Input select LED drive signal output |
| 17 | LED A | O | Input select LED drive signal output |
| 18 | RESET | I | System reset signal input |
| 19 | X IN | I | Connected to the ceramic oscillator (8 MHz) |
| 20 | X OUT | O | Connected to the ceramic oscillator (8 MHz) |
| 21 | GND | - | GND terminal |
| 22 | TAPE2 LED | O | LED drive signal output (Tape 2) |
| 23 | TAPE1 LED | O | LED drive signal output (Tape 1) |
| 24 | SOURCE LED | O | LED drive signal output (Source) |

| | | | |
|----|-----------|---|---|
| 25 | SP B LED | O | LED drive signal output (Speaker B) |
| 26 | SP A LED | O | LED drive signal output (Speaker A) |
| 27 | VRDOWN | O | Motor drive signal output (Volume down) |
| 28 | VRUP | O | Motor drive signal output (Volume up) |
| 29 | S MUTE | O | Audio muting control signal output |
| 30 | POWER | O | Power relay control signal output |
| 31 | SP B RLY | O | Speaker B relay control signal output |
| 32 | SP A RLY | O | Speaker A relay control signal output |
| 33 | VGCA RLY | O | VGCA mode relay control signal output |
| 34 | TAPE1 RLY | O | Tape 1 relay control signal output |
| 35 | DVD RLY | O | DVD relay control signal output |
| 36 | CD RLY | O | CD relay control signal output |
| 37 | MON RLY | O | Monitor relay control signal output |
| 38 | VGCA LED | O | LED drive signal output (VGCA mode) |
| 39 | VIA LED | O | LED drive signal output (VIA mode) |
| 40 | REG MON | I | Regulation monitor signal input |
| 41 | KEY AD2 | I | Operation key signal input |
| 42 | KEY AD1 | I | Operation key signal input |

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[TOP](#) [PREVIOUS](#) [NEXT](#)

15 Replacement Parts List

[TOP](#) [PREVIOUS](#) [NEXT](#)

Notes:

Important safety notice:

Components identified by  mark have special characteristics important for safety.

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

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

The<IA> <IB> <IC> <ID> marks in Remarks indicate language of instruction manual.

<IA> : English, Spanish, Swedish, Russian, Polish, Czech

<IB> : English

<IC> : German, Italian, French

<ID> : Netherlandish, Danish



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

The marking (RTL) indicates that Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.


All parts are supplied by MESA.


| Ref. No. | Part No. | Part Name& Description | Pcs. | Remarks |
|----------|-------------|------------------------|------|---------|
| | | | | |
| <u>1</u> | RKM0219F-K | TOP CABINET | 1 | |
| <u>2</u> | RHD30035-K1 | SCREW | 4 | |







| | | | | |
|-------------|-------------|-------------------|---|------|
| <u>3</u> | RMR1110-K | SP TERMINAL COVER | 8 | (EB) |
| <u>4</u> | XTBS3+8JFZ1 | SCREW | 2 | |
| <u>5</u> | RDG0438 | GEAR | 1 | |
| <u>6</u> | REM0072-3 | FAN | 1 | |
| <u>7</u> | RHD30070 | SCREW | 1 | |
| <u>8</u> | XTB3+6G | SCREW | 4 | |
| <u>9</u> | XTB3+6JFZ | SCREW | 4 | |
| <u>10</u> | RKA0053-A | FOOT | 4 | |
| <u>10-1</u> | RMG0270-K | RUBBER | 4 | |
| <u>11</u> | RMG0332-K | RUBBER | 2 | |
| <u>12</u> | XTB3+8JFZ | SCREW | 2 | |
| <u>13</u> | RGK1111-K | NUT | 4 | |
| <u>14</u> | RHD26033 | SCREW | 4 | |
| <u>15</u> | RKF0596-Q | DOOR | 1 | |
| <u>16</u> | RMR1252-K | ARM(L) | 1 | |
| <u>17</u> | RMR1253-K | ARM(R) | 1 | |
| <u>18</u> | RGB0031-A | TECHNICS BADGE | 1 | |
| <u>19</u> | RGB0112-N | VGCA BADGE | 1 | |
| <u>20</u> | RGH0155B-K | PANEL SHEET | 1 | |
| <u>21</u> | RGK1182-N | BUTTON ORNAMENT | 1 | |
| <u>22</u> | RGK1184-S | VOLUME RING | 1 | |
| <u>23</u> | RGL0453-Q | PANEL LIGHT 1 | 1 | |
| <u>24</u> | RGL0456-Q | PANEL LIGHT 2 | 1 | |
| <u>25</u> | RGL0457-Q | PANEL LIGHT 3 | 1 | |
| <u>26</u> | RGP0746B-K | PANEL | 1 | |
| <u>27</u> | RGU0890-1K | BUTTON,POWER | 1 | |
| <u>28</u> | RGU1712-K | BUTTON,OPEN | 1 | |
| <u>29</u> | RGU1782-K | BUTTON,SELECTOR | 1 | |
| <u>30</u> | RGU1784-S | BUTTON,SPEAKER | 1 | |
| <u>31</u> | RGW0285-S | KNOB,TONE | 3 | |
| <u>32</u> | RGW0325-K | KNOB,VOLUME | 1 | |
| <u>33</u> | RHD26016 | SCREW | 2 | |
| <u>34</u> | RHD26034 | SCREW | 1 | |
| <u>35</u> | RHN90001 | NUT | 1 | |




| | | | | |
|-------------|--------------|-------------------------|----|---|
| <u>36</u> | RKG0009 | MAGNET | 1 | |
| <u>37</u> | RKW0273A-K | FILTER | 1 | |
| <u>38</u> | RME0284 | SPRING | 1 | |
| <u>39</u> | RMR1254-K | LEVER | 1 | |
| <u>40</u> | RMR1261-K | HOLDER | 1 | |
| <u>41</u> | XTBS26+8J | SCREW | 26 | |
| <u>42</u> | XTBS3+8JFZ1 | SCREW | 22 | |
| <u>43</u> | XTW3+15T | SCREW | 5 | |
| <u>44</u> | XTB3+20JFZ | SCREW | 8 | |
| | | | | |
| <u>A1</u> | RAK-SUA11WH | REMOTE CONT.TRANSMITTER | 1 | |
| <u>A1-1</u> | RKK0123-K | BATTERY COVER | 1 | |
| <u>A2</u> | RJA0019-X | AC POWER SUPPLY CORD | 1 | (E,EG)/  |
| A2 | RJA0053-2X | AC POWER SUPPLY CORD | 1 | (EB)/  |
| <u>A3</u> | RQA0117 | WARRANTY CARD | 1 | |
| A4 | RQCB0169 | SERVICE CENTER LIST | 1 | |
| A5 | RQT5113-E | OPERATING INSTRUCTIONS | 1 | (E)/<IA> |
| A6 | RQT5116-B | OPERATING INSTRUCTIONS | 1 | (EB)/<IB> |
| A7 | RQT5114-D | OPERATING INSTRUCTIONS | 1 | (EG)/<IC> |
| <u>A8</u> | RQT5115-H | OPERATING INSTRUCTIONS | 1 | (EG)/<ID> |
| | | | | |
| C103,04 | ECBT1H181KB5 | 50V 180P | 2 | |
| C107,08 | ECEA1CKS101 | 16V 100U | 2 | |
| C109,10 | ECBT1H391KB5 | 50V 390P | 2 | |
| C113,14 | ECQB1H223JF3 | 50V 0.022U | 2 | |
| C115,16 | ECQB1H562JF3 | 50V 5600P | 2 | |
| C117,18 | RCE1HKA4R7BG | 50V 4.7U | 2 | |
| C119,20 | ECQB1H472JF3 | 50V 4700P | 2 | |
| C121,22 | ECBT1E103ZF | 25V 0.01U | 2 | |
| C123,24 | RCE1HKA3R3BG | 50V 3.3U | 2 | |
| C201-16 | ECCR1H101K5 | 50V 100P | 16 | |
| C251,52 | ECEA0JKS101 | 6.3V 100U | 2 | |
| C253,54 | ECQV1H104JM3 | 50V 0.1U | 2 | |
| C301,02 | RCE1HKA3R3BG | 50V 3.3U | 2 | |
| C303,04 | ECCR1H101K5 | 50V 100P | 2 | |
| C305,06 | ECBT1H820KB5 | 50V 82P | 2 | |



| | | | | |
|---------|--------------|------------|---|--|
| C307,08 | RCE1HKA4R7BG | 50V 4.7U | 2 | |
| C309,10 | ECBT1H390J5 | 50V 39P | 2 | |
| C311,12 | RCE1CKA100BG | 16V 10U | 2 | |
| C313,14 | ECQV1H823JZ | 50V 0.082U | 2 | |
| C315,16 | ECQB1H153JF3 | 50V 0.015U | 2 | |
| C317,18 | ECQB1H183JF3 | 50V 0.018U | 2 | |
| C319,20 | ECQB1H222JF | 50V 2200P | 2 | |
| C321,22 | ECBT1E223ZF | 25V 0.022U | 2 | |
| C323,24 | ECBT1H121KB5 | 50V 120P | 2 | |
| C351,52 | ECA1EPXS100B | 25V 10U | 2 | |
| C353,54 | ECBT1H101KB5 | 50V 100P | 2 | |
| C355,56 | ECA1APXS470B | 10V 47U | 2 | |
| C357,58 | ECBT1H820KB5 | 50V 82P | 2 | |
| C359,60 | ECBT1H180J5 | 50V 18P | 2 | |
| C361-64 | ECA1EPXS100B | 25V 10U | 4 | |
| C367,68 | ECA1CPXS330B | 16V 33U | 2 | |
| C369,70 | ECA1EPXS100B | 25V 10U | 2 | |
| C401,02 | ECA1CPXS470B | 16V 47U | 2 | |
| C403,04 | ECKR1H121KB5 | 50V 120P | 2 | |
| C405,06 | ECA1APXS101B | 10V 100U | 2 | |
| C407,08 | ECBT1H820KB5 | 50V 82P | 2 | |
| C409,10 | ECCR2H330J5 | 500V 33P | 2 | |
| C413,14 | ECCV2H070D | 500V 7P | 2 | |
| C415,16 | ECBT1H102KB5 | 50V 1000P | 2 | |
| C426 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C427 | ECBT1E223ZF | 25V 0.022U | 1 | |
| C428 | ECKR1H103ZF5 | 50V 0.01U | 1 | |
| C451,52 | ECKR1H333ZF5 | 50V 0.033U | 2 | |
| C453-56 | ECCV2H680K | 500V 68P | 4 | |
| C457-60 | RCE1HKA3R3BG | 50V 3.3U | 4 | |
| C461,62 | ECBA1H681KB5 | 50V 680P | 2 | |
| C501-04 | ECA1APXS101B | 10V 100U | 4 | |
| C505,06 | ECQV1H473JM3 | 50V 0.047U | 2 | |
| C507 | ECEA1CKS101 | 16V 100U | 1 | |
| C508 | ECA1HM470 | 50V 47U | 1 | |
| C509 | ECEA1HN100SB | 50V 10U | 1 | |
| C511,12 | ECBT1H680J5 | 50V 68P | 2 | |




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|---------|--------------|----------------|---|---|
| C513-18 | ECQV1H473JM3 | 50V 0.047U | 6 | |
| C519-22 | ECQB1H223JF3 | 50V 0.022U | 4 | |
| C523,24 | ECBT1H102KB5 | 50V 1000P | 2 | |
| C525,26 | ECQB1H152JF3 | 50V 1500P | 2 | |
| C531,32 | ECBT1C332KR5 | 16V 3300P | 2 | |
| C601,02 | RCE1CKA100BG | 16V 10U | 2 | |
| C603 | ECEA0JKS101 | 6.3V 100U | 1 | |
| C604 | ECEA1HSN010 | 50V 1U | 1 | |
| C605 | ECEA0JKS331 | 6.3V 330U | 1 | |
| C701,02 | ECESX1H822UM | 50V 8200U | 2 |  |
| C705 | ECBT1H104KB5 | 50V 0.1U | 1 | |
| C707,08 | ECA1HPXS100B | 50V 10U | 2 | |
| C709,10 | ECKR2H103ZU | 500V 0.01U | 2 | |
| C711 | ECQE2104KF3 | 250V 0.1U | 1 | |
| C712 | ECBT1E103ZF | 25V 0.01U | 1 | |
| C714 | ECA1CM471 | 16V 470U | 1 | |
| C715 | ECBT1E103ZF | 25V 0.01U | 1 | |
| C716 | RCE1CM102BV | 16V 1000U | 1 | |
| C751,52 | ECA1EPXS470B | 25V 47U | 2 | |
| C787,88 | ECKR1H103ZF5 | 50V 0.01U | 2 | |
| C793,94 | ECEA1EKA470B | 25V 47U | 2 | |
| C801-03 | ECBT1E103ZF | 25V 0.01U | 3 | |
| C804 | ECA0JM102 | 6.3V 1000U | 1 | |
| C805 | RCE1HKAR47BG | 50V 0.47U | 1 | |
| C806 | ECEA1HKS2R2 | 50V 2.2U | 1 | |
| C807 | ECBT1H102KB5 | 50V 1000P | 1 | |
| C808 | ECBT1E103ZF | 25V 0.01U | 1 | |
| C809,10 | RCE1AKA470BG | 10V 47U | 2 | |
| C811 | ECBT1H101KB5 | 50V 100P | 1 | |
| C812,13 | ECKR1H103ZF5 | 50V 0.01U | 2 | |
| C814,15 | ECA1CPXS100B | 16V 10U | 2 | |
| C816 | RCE1CKA100BG | 16V 10U | 1 | |
| C817 | RCE1AKA470BG | 10V 47U | 1 | |
| C820 | ECQV1H224JM3 | 50V 0.22U | 1 | |
| | | | | |
| CN201 | RJU003K010M1 | CONNECTOR(10P) | 1 | |
| CN202 | RJU003K008M1 | CONNECTOR(8P) | 1 | |


| | | | | |
|-----------|--------------|----------------|---|---|
| CN301 ,02 | RJU003K008M1 | CONNECTOR(8P) | 2 | |
| CN401 | RJU057W004 | CONNECTOR(4P) | 1 | |
| CN601 | SJT3213 | CONNECTOR(2P) | 1 | |
| CN702 | RJS1A6607T1 | CONNECTOR(7P) | 1 | |
| CN703 | RJS1A6603 | CONNECTOR(3P) | 1 | |
| CN704-11 | RJS1A1101T1 | CONNECTOR(1P) | 8 | |
| CN801, 02 | RJU003K008M1 | CONNECTOR(8P) | 2 | |
| CN803 | RJU071H11M | CONNECTOR(11P) | 1 | |
| CN805 | RJU071H11M | CONNECTOR(11P) | 1 | |
| | | | | |
| CP201 | RJT003K010-1 | CONNECTOR(10P) | 1 | |
| CP202 | RJT003K008-1 | CONNECTOR(8P) | 1 | |
| CP301 ,02 | RJT003K008-1 | CONNECTOR(8P) | 2 | |
| CP401 | RJT057W004-1 | CONNECTOR(4P) | 1 | |
| CP801 ,02 | RJT003K008-1 | CONNECTOR(8P) | 2 | |
| CP803 | RJT071K11 | CONNECTOR(11P) | 1 | |
| CP805 | RJT071K11 | CONNECTOR(11P) | 1 | |
| | | | | |
| D351 | MA165 | DIODE | 1 | |
| D401,02 | MA167 | DIODE | 2 | |
| D403,04 | MA4036M | DIODE | 2 | |
| D405,06 | MA165 | DIODE | 2 | |
| D451 | MA165 | DIODE | 1 | |
| D452 | MA4056M | DIODE | 1 | |
| D453 | MA29WA | DIODE | 1 | |
| D501,02 | MA165 | DIODE | 2 | |
| D503,04 | MA4160M | DIODE | 2 | |
| D505 | MA165 | DIODE | 1 | |
| D506 | 1SS291TA | DIODE | 1 | |
| D507 | MA165 | DIODE | 1 | |
| D605 | MA4091M | DIODE | 1 | |
| D606 | MA165 | DIODE | 1 | |
| D608-10 | MA165 | DIODE | 3 | |
| D611,12 | MA167 | DIODE | 2 | |
| D613 | MA700 | DIODE | 1 | |
| D701-04 | P300DLF | DIODE | 4 |  |
| D705 | 1SR35200TB | DIODE | 1 | |





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|----------|--------------|---------------------|---|---|
| D706 | MA165 | DIODE | 1 | |
| D709 | MA4056-LTA | DIODE | 1 | |
| D710-13 | 1SR35200TB | DIODE | 4 |  |
| D795,96 | MA4160M | DIODE | 2 |  |
| D801 | MA4068L | DIODE | 1 |  |
| D802 | 1SS291TA | DIODE | 1 | |
| D803-07 | MA165 | DIODE | 5 | |
| D808 | 1SS291TA | DIODE | 1 | |
| D809,10 | MA165 | DIODE | 2 | |
| D825-28 | MA165 | DIODE | 4 | |
| D829 | MA700 | DIODE | 1 | |
| D851-57 | SLR325VCT31 | LED | 7 | |
| D858 | SLR325DCT31 | LED | 1 | |
| D859-65 | SLR325VCT31 | LED | 7 | |
| D866,67 | SLR325DCT31 | LED | 2 | |
| | | | | |
| F1 | XBA2C20TB0 | FUSE | 1 |  |
| | | | | |
| IC101 | AN6558F | IC | 1 | |
| IC201 | NJU7312AL | IC | 1 | |
| IC251 | BA6218 | IC | 1 | |
| IC301 | UPC4570C | IC | 1 | |
| IC351,52 | NJM4580DD | IC | 2 | |
| IC401 | AN7062N | IC | 1 | |
| IC501 | SVI3205B | IC | 1 |  |
| IC502 | RSN6000B | IC | 1 | |
| IC601 | M5218AP | IC | 1 | |
| IC801 | M38503M2405F | IC | 1 | |
| IC803 | TC74HC42AP | IC | 1 | |
| | | | | |
| JK1 | SJS9236 | JACK,AC INLET | 1 |  |
| JK201-04 | SJF3069N | JACK,IN/OUT | 4 | |
| JK205 | SJF3068-7N | JACK,TAPE1 PLAY(IN) | 1 | |
| JK501 | RJH4801M-1 | JACK,SPEAKERS | 1 | (E,EG) |
| JK501 | RJH4801M-2 | JACK,SPEAKERS | 1 | (EB) |
| JK502 | RJJ63TA01 | JACK,PHONES | 1 | |
| | | | | |



| | | | | |
|-----------|-------------|------------------|---|---|
| L1 | RLQZ271M | COIL,CHOKE | 1 |  |
| L201-04 | ELEXT470KA9 | COIL | 4 | |
| L251,52 | ELEXT1R0KA9 | COIL | 2 | |
| L501-04 | SLQY18G-10 | COIL,CHOKE | 4 | |
| L801 | ELEXT101KA9 | COIL | 1 | |
| | | | | |
| <u>P1</u> | RPQ0164 | PAD | 1 | |
| <u>P2</u> | RPF0139 | PROTECTION COVER | 1 | |
| <u>P3</u> | RPG4559 | PACKING CASE | 1 | (E) |
| P3 | RPG4560 | PACKING CASE | 1 | (EB,EG) |
| <u>P4</u> | RPN1221 | PAD | 1 | |
| <u>P5</u> | RPH0032 | MIRROR SHEET | 1 | (EB) |
| <u>P6</u> | SPP730 | SHEET | 1 | |
| | | | | |
| PCB1 | REP2865D-M | MAIN PCB | 1 | (E,EG)/(RTL) |
| PCB1 | REP2865E-M | MAIN PCB | 1 | (EB)/(RTL) |
| PCB2 | REP2866D-S | SUB PCB | 1 | (E,EG)/(RTL) |
| PCB2 | REP2866E-S | SUB PCB | 1 | (EB)/(RTL) |
| | | | | |
| Q401,02 | 2SA992F | TRANSISTOR | 2 | |
| Q451,52 | 2SC1845F | TRANSISTOR | 2 | |
| Q453,54 | 2SC3311AR | TRANSISTOR | 2 | |
| Q455,56 | 2SA1309AR | TRANSISTOR | 2 | |
| Q501-03 | 2SA992F | TRANSISTOR | 3 | |
| Q601 | 2SD893AR | TRANSISTOR | 1 | |
| Q602-04 | 2SA1048GR | TRANSISTOR | 3 | |
| Q605,06 | 2SC3311AR | TRANSISTOR | 2 | |
| Q607 | UN4113 | TRANSISTOR | 1 | |
| Q608 | UN4213 | TRANSISTOR | 1 | |
| Q701 | 2SB621A-R | TRANSISTOR | 1 | |
| Q793 | 2SD2374PQAU | TRANSISTOR | 1 |  |
| Q794 | 2SB1548PQAU | TRANSISTOR | 1 |  |
| Q801 | UN4211 | TRANSISTOR | 1 | |
| Q802 | UN4111 | TRANSISTOR | 1 | |
| Q803 | UN4211 | TRANSISTOR | 1 | |
| Q804 | UN4111 | TRANSISTOR | 1 | |

| | | | | |
|---------|--------------|------------|----|---|
| Q805 | UN4211 | TRANSISTOR | 1 | |
| Q806 | UN4111 | TRANSISTOR | 1 | |
| Q807 | UN4211 | TRANSISTOR | 1 | |
| Q808-10 | UN4111 | TRANSISTOR | 3 | |
| Q811 | UN4211 | TRANSISTOR | 1 | |
| Q812 | UN4111 | TRANSISTOR | 1 | |
| Q813-18 | UN4211 | TRANSISTOR | 6 | |
| Q819 | 2SD2037DEFTA | TRANSISTOR | 1 |  |
| Q820 | 2SK2880BCTA | TRANSISTOR | 1 | |
| Q824,25 | 2SK301QRS | TRANSISTOR | 2 | |
| Q826 | 2SA1048GR | TRANSISTOR | 1 | |
| | | | | |
| R101,02 | ERDS2FJ152 | 1/4W 1.5K | 2 | |
| R105,06 | ERDS2FJ224 | 1/4W 220K | 2 | |
| R109,10 | ERDS2FJ101 | 1/4W 100 | 2 | |
| R113,14 | ERDS2FJ563 | 1/4W 56K | 2 | |
| R117,18 | ERDS2FJ271 | 1/4W 270 | 2 | |
| R123,24 | ERDS2FJ680 | 1/4W 68 | 2 | |
| R125,26 | ERDS2FJ184 | 1/4W 180K | 2 | |
| R127,28 | ERDS2FJ123 | 1/4W 12K | 2 | |
| R129,30 | ERDS2FJ563 | 1/4W 56K | 2 | |
| R131,32 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R201,02 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R205-16 | ERDS2FJ102 | 1/4W 1K | 12 | |
| R217,18 | ERDS2FJ334 | 1/4W 330K | 2 | |
| R219-21 | ERDS2FJ103 | 1/4W 10K | 3 | |
| R223,24 | ERDS2FJ393 | 1/4W 39K | 2 | |
| R251 | ERDS1FJ100 | 1/2W 10 | 1 |  |
| R301,02 | ERDS2FJ563 | 1/4W 56K | 2 | |
| R303,04 | ERDS2FJ123 | 1/4W 12K | 2 | |
| R305-08 | ERDS2FJ224 | 1/4W 220K | 4 | |
| R309,10 | ERDS2FJ392 | 1/4W 3.9K | 2 | |
| R311,12 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R313,14 | ERDS2FJ223 | 1/4W 22K | 2 | |
| R315,16 | ERDS2FJ392 | 1/4W 3.9K | 2 | |
| R317,18 | ERDS2FJ183 | 1/4W 18K | 2 | |
| R351,52 | ERDS2FJ102 | 1/4W 1K | 2 | |

| | | | | |
|---------|--------------|-----------|---|---|
| R353,54 | ERDS2FJ473 | 1/4W 47K | 2 | |
| R355,56 | ERDS2FJ102 | 1/4W 1K | 2 | |
| R357,58 | ERDS2FJ224 | 1/4W 220K | 2 | |
| R361,62 | ERDS2FJ183 | 1/4W 18K | 2 | |
| R365,66 | ERDPS2VF102T | 1/4W 1K | 2 | |
| R367,68 | ERDS2FJ392 | 1/4W 3.9K | 2 | |
| R401,02 | ERDS2FJ272 | 1/4W 2.7K | 2 | |
| R403,04 | ERDS2FJ393 | 1/4W 39K | 2 | |
| R405,06 | ERDS2FJ272 | 1/4W 2.7K | 2 | |
| R407,08 | ERDS2FJ393 | 1/4W 39K | 2 | |
| R411,12 | RREKFJ470VM | 1/4W 47 | 2 | |
| R437 | ERDS2FJ473 | 1/4W 47K | 1 | |
| R457 | ERDS2FJ153 | 1/4W 15K | 1 | |
| R459,60 | RREKFJ101VM | 1/4W 100 | 2 | |
| R461-64 | ERDS2FJ333 | 1/4W 33K | 4 | |
| R465-68 | RREKFJ101VM | 1/4W 100 | 4 | |
| R469 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R470 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R471,72 | ERDS2FJ561 | 1/4W 560 | 2 | |
| R501,02 | ERDS2FJ362 | 1/4W 3.6K | 2 | |
| R503,04 | RREKFJ121VM | 1/4W 120 | 2 | |
| R505,06 | ERDS2FJ392 | 1/4W 3.9K | 2 | |
| R507,08 | RREKFJ121VM | 1/4W 120 | 2 | |
| R513-16 | RREKFJ100VM | 1/4W 10 | 4 | |
| R517-20 | ERDS1FJ6R8 | 1/2W 6.8 | 4 |  |
| R521,22 | ERDS1FJ100 | 1/2W 10 | 2 |  |
| R527 | ERDS2FJ223 | 1/4W 22K | 1 | |
| R528 | ERDS2FJ824 | 1/4W 820K | 1 | |
| R529 | ERDS2FJ124 | 1/4W 120K | 1 | |
| R530 | ERDS1FJ272 | 1/2W 2.7K | 1 | |
| R531,32 | ERDS1FJ100 | 1/2W 10 | 2 |  |
| R533,34 | ERDS2FJ182 | 1/4W 1.8K | 2 | |
| R535 | ERDS2FJ562 | 1/4W 5.6K | 1 | |
| R536,37 | ERDS2FJ103 | 1/4W 10K | 2 | |
| R550,51 | ERDS2FJ222 | 1/4W 2.2K | 2 | |
| R555 | ERG1SJ681 | 1W 680 | 1 | |
| R556 | ERG1SJ561 | 1W 560 | 1 | |

| | | | | |
|---------|-------------|-----------|---|---|
| R557 | ERG1SJ681 | 1W 680 | 1 | |
| R558 | ERG1SJ561 | 1W 560 | 1 | |
| R559,60 | ERDS1FJ122 | 1/2W 1.2K | 2 |  |
| R561,62 | ERG1SJ151 | 1W 150 | 2 | |
| R563,64 | ERG1SJ181 | 1W 180 | 2 | |
| R565-70 | ERDS2FJ223 | 1/4W 22K | 6 | |
| R611-14 | ERDS2FJ223 | 1/4W 22K | 4 | |
| R615-18 | ERDS2FJ103 | 1/4W 10K | 4 | |
| R619 | ERDS2FJ151 | 1/4W 150 | 1 | |
| R620 | ERDS2FJ153 | 1/4W 15K | 1 | |
| R621,22 | ERDS2FJ223 | 1/4W 22K | 2 | |
| R624 | ERDS2FJ333 | 1/4W 33K | 1 | |
| R625 | ERDS2FJ223 | 1/4W 22K | 1 | |
| R626 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R628 | ERDS2FJ564 | 1/4W 560K | 1 | |
| R629 | ERDS2FJ473 | 1/4W 47K | 1 | |
| R630 | ERDS2FJ150 | 1/4W 15 | 1 | |
| R632 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R633 | ERDS2FJ563 | 1/4W 56K | 1 | |
| R634 | ERDS2FJ223 | 1/4W 22K | 1 | |
| R637 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R707,08 | RREKFJ6R8VM | 1/4W 6.8 | 2 | |
| R709,10 | RREKFJ470VM | 1/4W 47 | 2 | |
| R711 | ERDS2FJ221 | 1/4W 220 | 1 | |
| R712 | RREKFJ2R2VM | 1/4W 2.2 | 1 | |
| R713 | ERDS2FJ223 | 1/4W 22K | 1 | |
| R714 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R715 | ERDS2FJ221 | 1/4W 220 | 1 | |
| R793,94 | ERDS2FJ103 | 1/4W 10K | 2 | |
| R801 | ERDS2FJ821 | 1/4W 820 | 1 | |
| R802 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R803 | ERDS2FJ122 | 1/4W 1.2K | 1 | |
| R804 | ERDS2FJ152 | 1/4W 1.5K | 1 | |
| R805 | ERDS2FJ182 | 1/4W 1.8K | 1 | |
| R806 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R807 | ERDS2FJ821 | 1/4W 820 | 1 | |
| R808 | ERDS2FJ102 | 1/4W 1K | 1 | |

| | | | | |
|-----------|------------|----------------|----|---|
| R809 | ERDS2FJ122 | 1/4W 1.2K | 1 | |
| R810 | ERDS2FJ152 | 1/4W 1.5K | 1 | |
| R811 | ERDS2FJ182 | 1/4W 1.8K | 1 | |
| R812 | ERDS2FJ222 | 1/4W 2.2K | 1 | |
| R813 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R814 | ERDS2FJ1R0 | 1/4W 1 | 1 | |
| R815 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R816-18 | ERDS2FJ102 | 1/4W 1K | 3 | |
| R819 | ERDS2FJ104 | 1/4W 100K | 1 | |
| R820 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R821,22 | ERDS2FJ103 | 1/4W 10K | 2 | |
| R823 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R824 | ERDS2FJ472 | 1/4W 4.7K | 1 | |
| R825-27 | ERDS2FJ104 | 1/4W 100K | 3 | |
| R828 | ERDS2FJ102 | 1/4W 1K | 1 | |
| R829 | ERDS2FJ103 | 1/4W 10K | 1 | |
| R830 | ERDS2FJ223 | 1/4W 22K | 1 | |
| R831 | ERDS2FJ333 | 1/4W 33K | 1 | |
| R832,33 | ERDS2FJ104 | 1/4W 100K | 2 | |
| R834 | ERD2FCJ4R7 | 1/4W 4.7 | 1 |  |
| R835 | ERDS2FJ105 | 1/4W 1M | 1 | |
| R845 | ERDS2FJ334 | 1/4W 330K | 1 | |
| R851 | ERDS2FJ331 | 1/4W 330 | 1 | |
| R852 | ERDS2FJ271 | 1/4W 270 | 1 | |
| R853,54 | ERDS2FJ331 | 1/4W 330 | 2 | |
| R855 | ERDS2FJ271 | 1/4W 270 | 1 | |
| R857-61 | ERDS2FJ331 | 1/4W 330 | 5 | |
| R862 | ERDS1FJ471 | 1/2W 470 | 1 |  |
| | | | | |
| RL201-04 | RSY0020M-R | RELAY | 4 | |
| RL351 | RSY0020M-R | RELAY | 1 | |
| RL501 ,02 | RSY0013M-0 | RELAY | 2 |  |
| RL503 | RSY0020M-R | RELAY | 1 | |
| RL701 ,02 | RSY0019M-0 | RELAY | 2 |  |
| | | | | |
| S204 | RSP2B023-A | SW,UNIT ON/OFF | 1 | |
| S801-13 | EVQ21405R | SW,PUSH | 13 | |

| | | | | |
|-----------|--------------|--------------------|---|---|
| T1 | RTP7K5E009AW | POWER TRANSFORMER | 1 | (E,EG)/  |
| T1 | RTP7K5B005AW | POWER TRANSFORMER | 1 | (EB)/  |
| | | | | |
| TH201 ,02 | ERTD2ZHL104T | THERMISTOR | 2 | |
| | | | | |
| VR201 | EUWMRUF25461 | VR,VOLUME | 1 | |
| VR202 | EVJ02SFA5G15 | VR,BALANCE | 1 | |
| VR203 ,04 | EVNDXAA00B23 | VR,OUTPUT VOL.ADJ. | 2 | |
| VR301 ,02 | EVJYA1FA5C15 | VR,BASS/TREBLE | 2 | |
| | | | | |
| X801 | RSXY8M00D01T | OSCILLATOR | 1 | |
| | | | | |
| Z801 | RCDGP1U27XD | REMOTE SENSOR | 1 | |

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[TOP](#) [PREVIOUS](#) [NEXT](#)

16 Cabinet Parts Location

[TOP](#) [PREVIOUS](#) [NEXT](#)



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[TOP](#) [PREVIOUS](#) [NEXT](#)

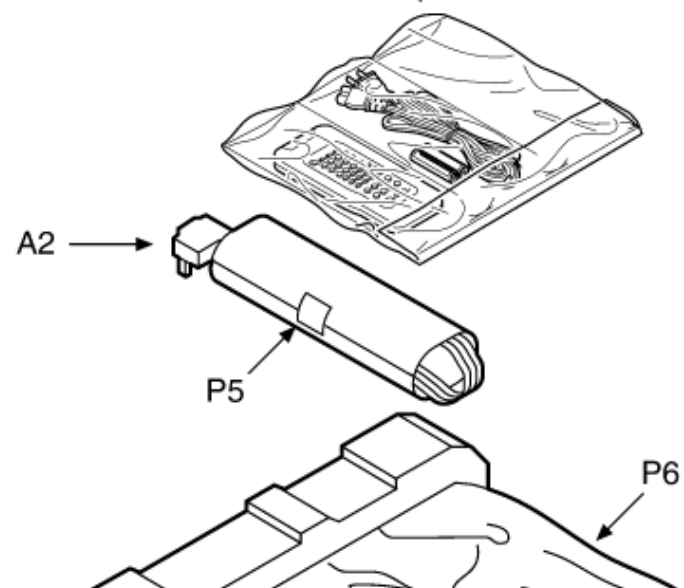
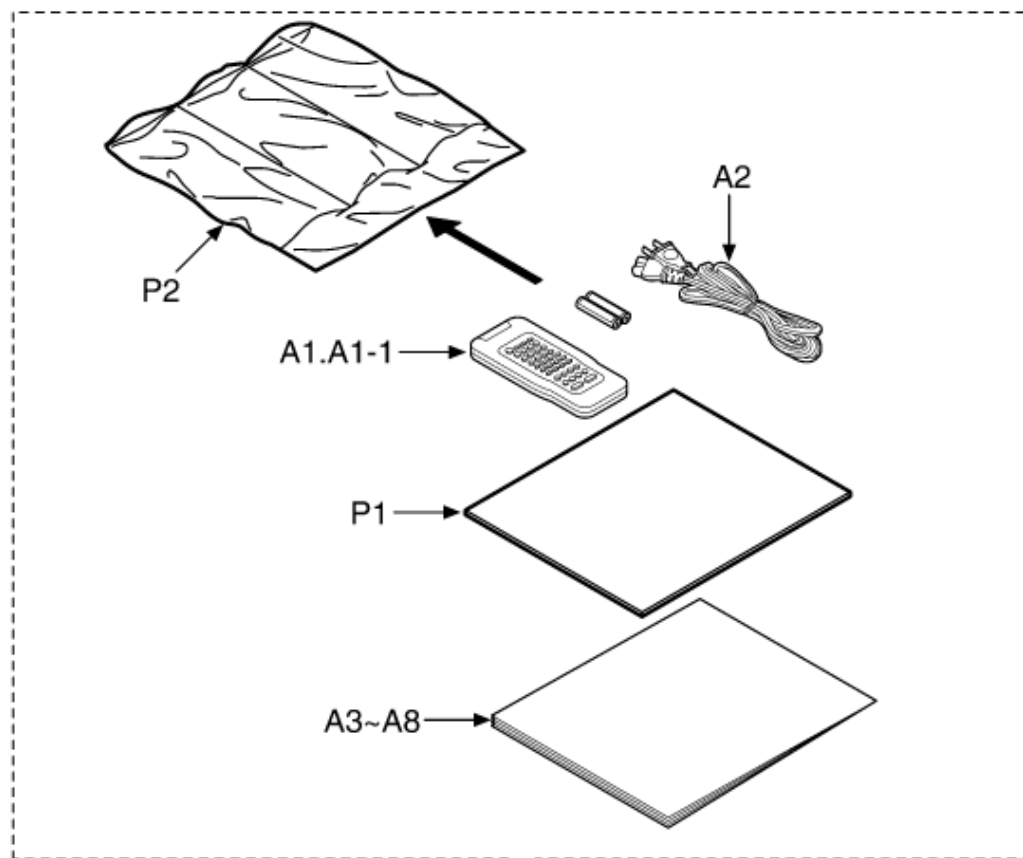
17 Packaging

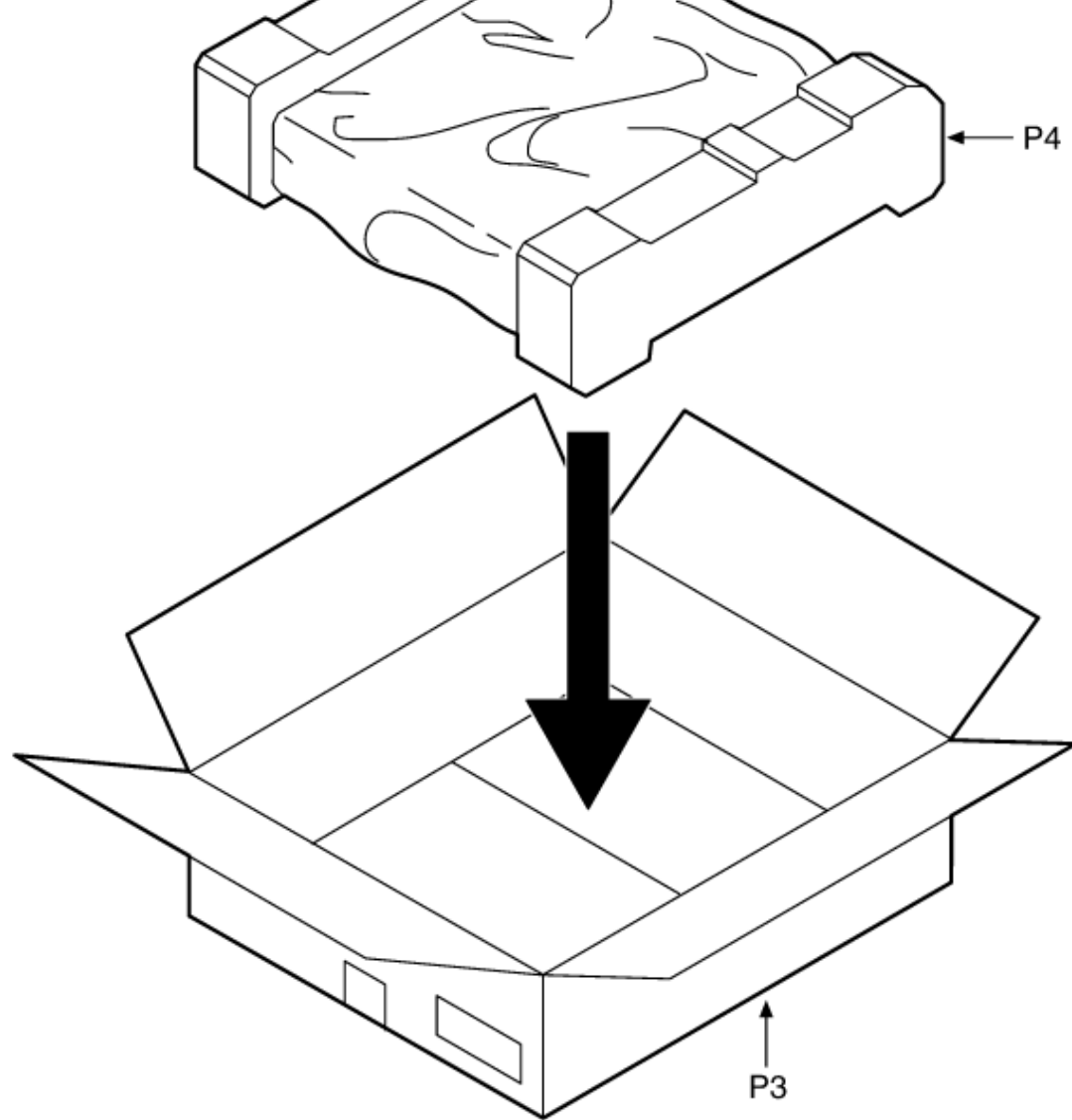
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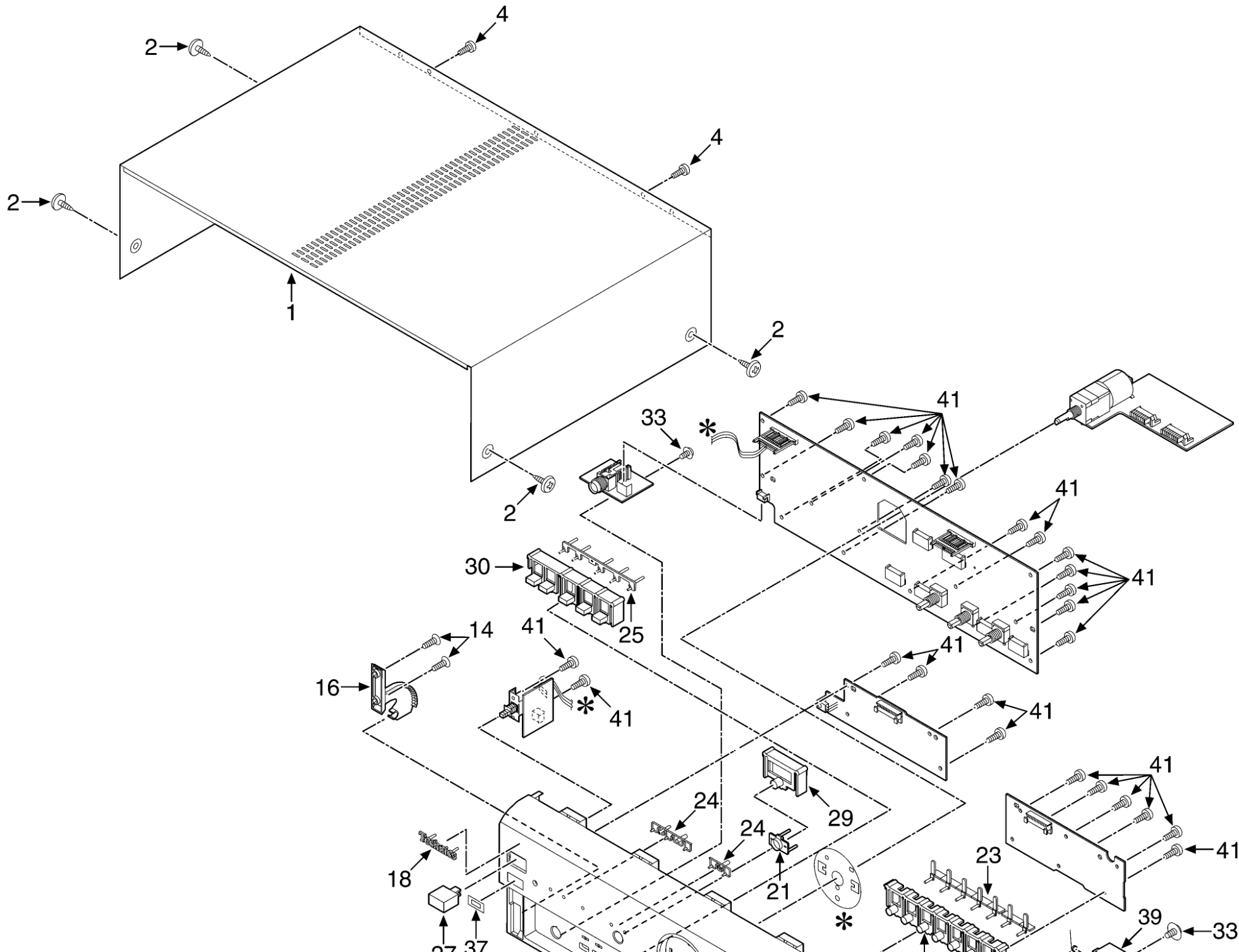


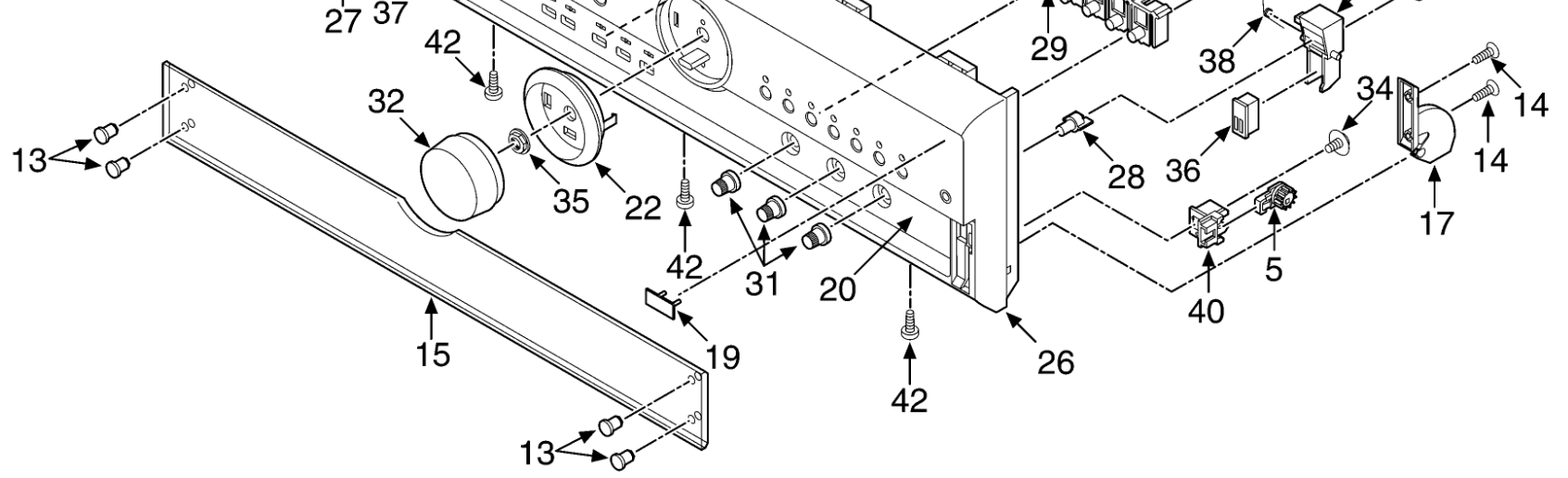
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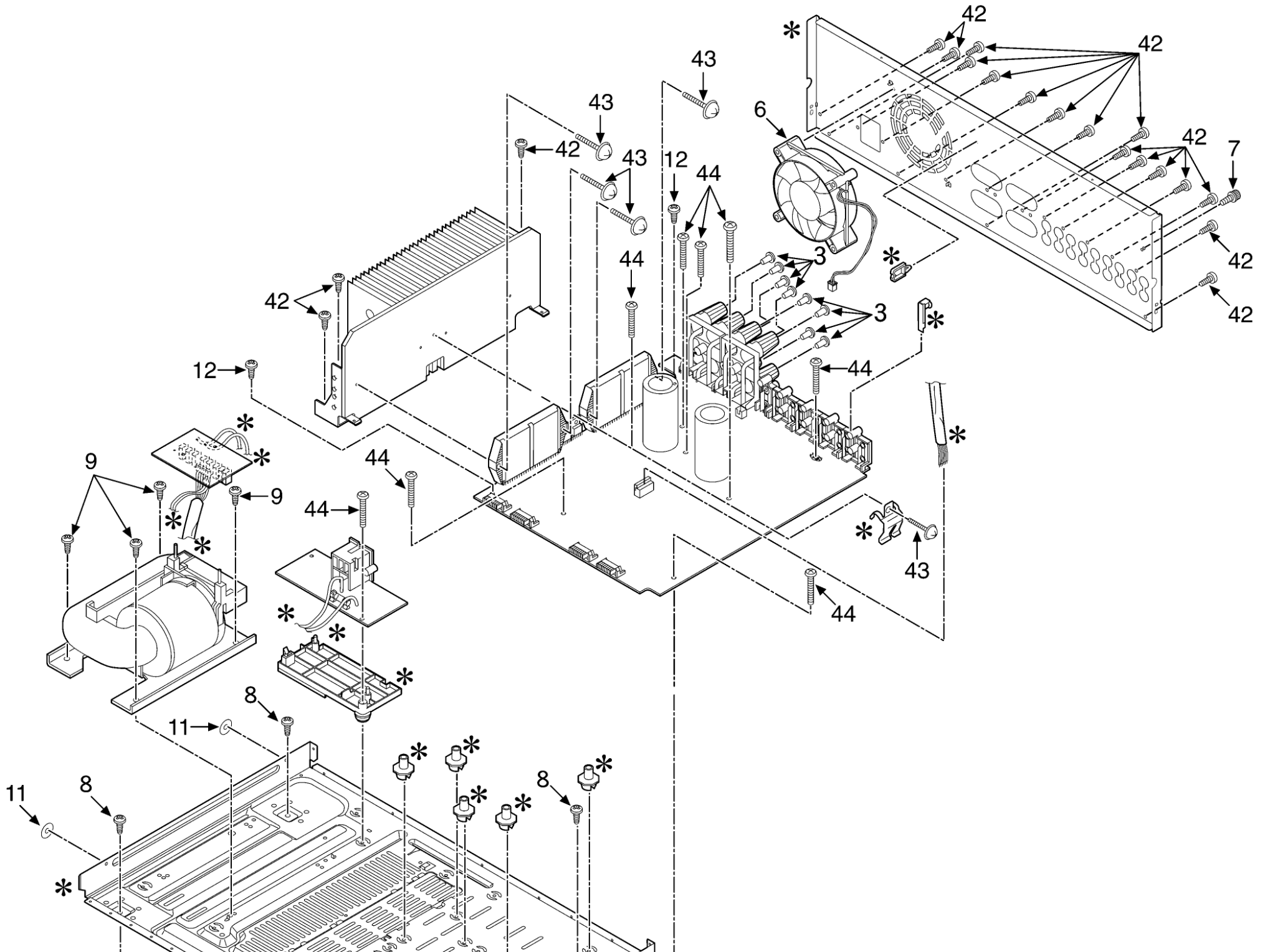


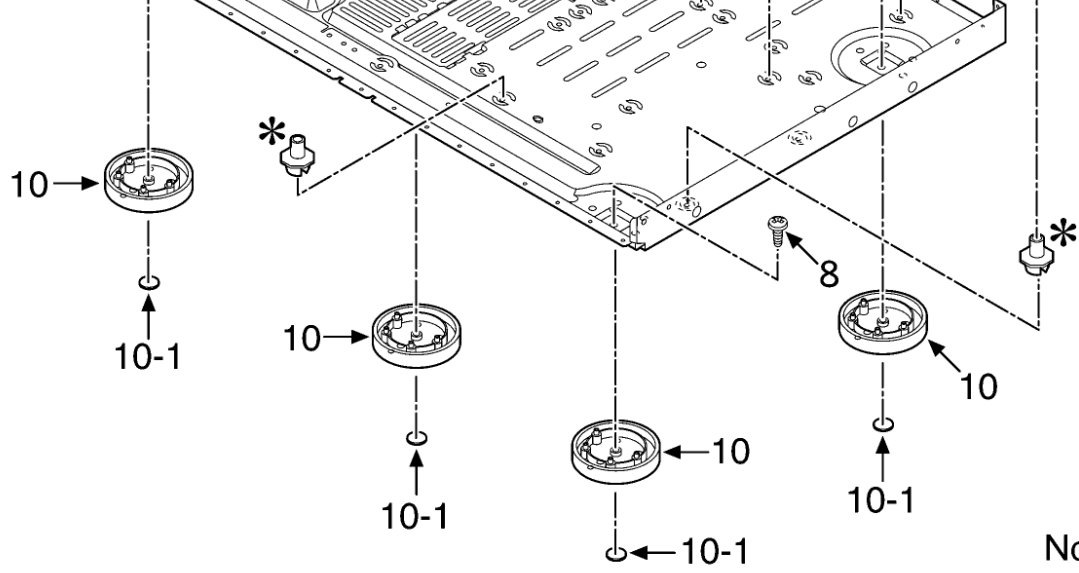




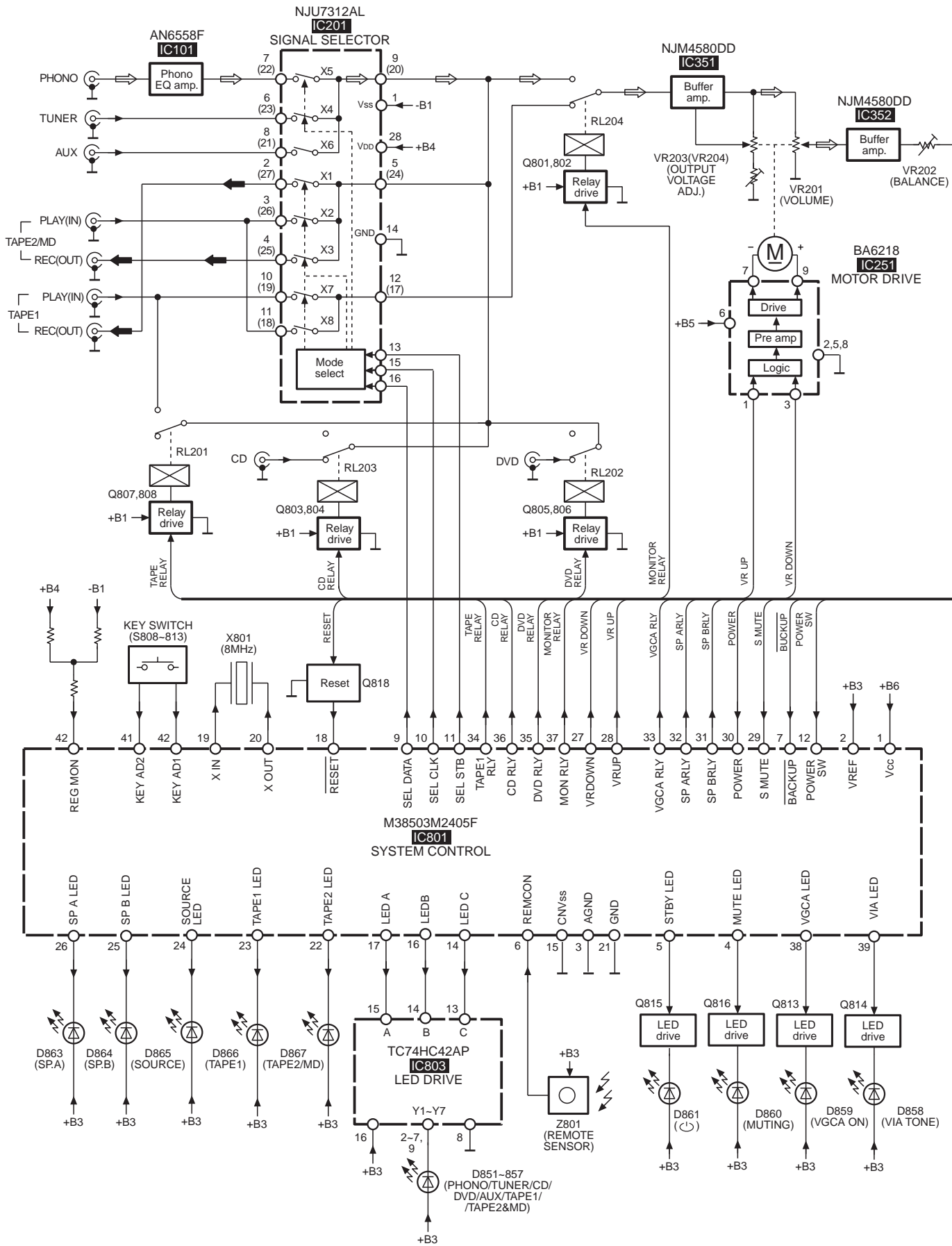


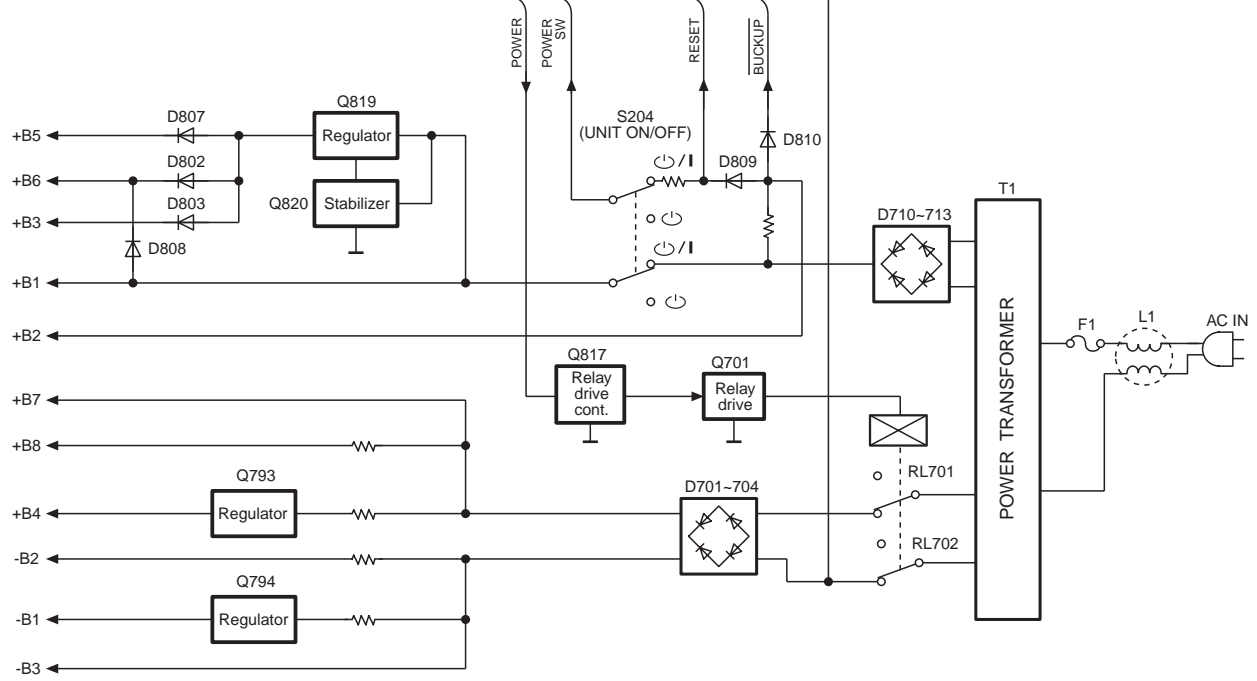
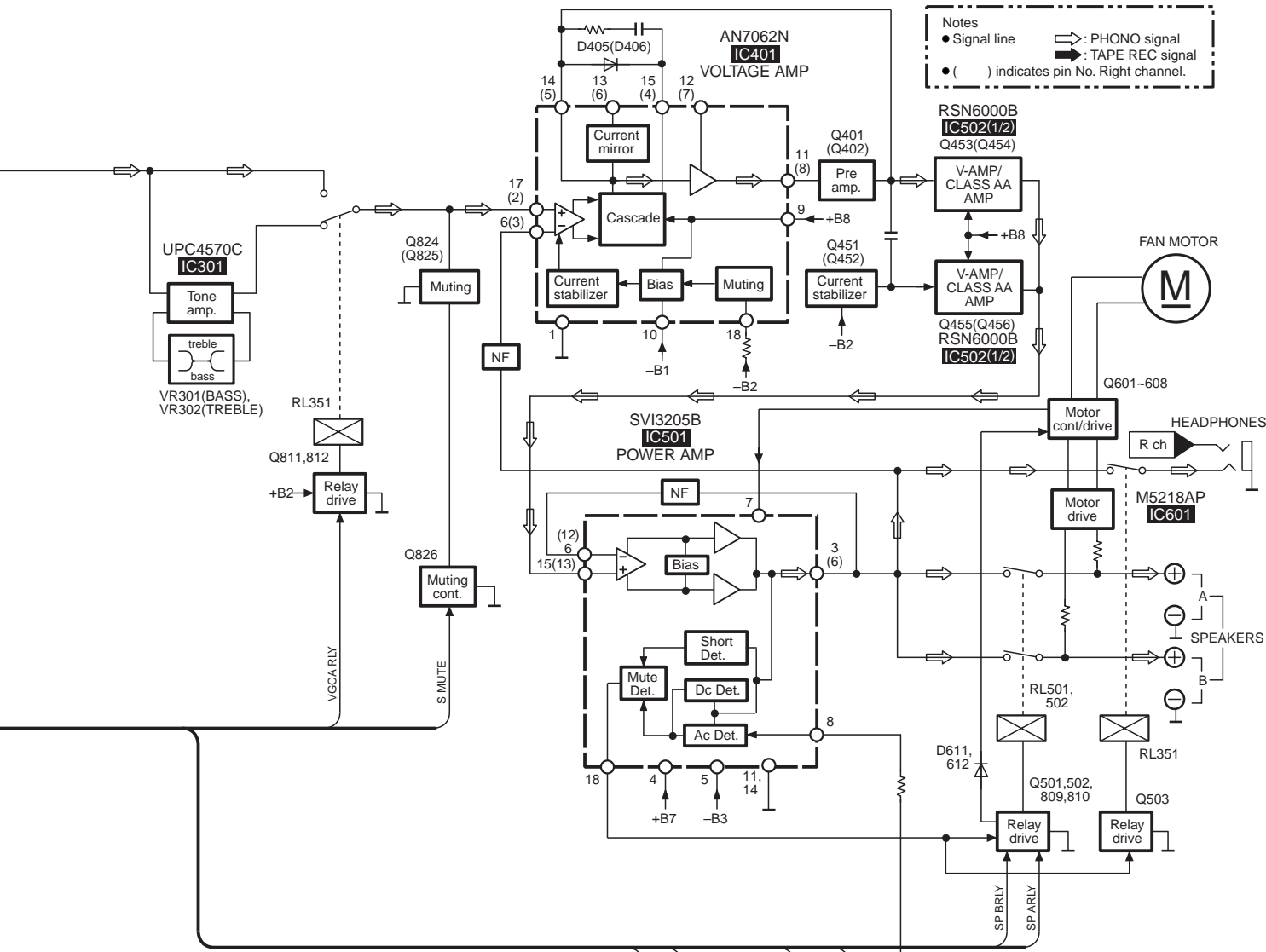
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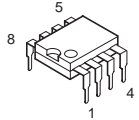
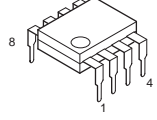
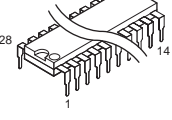
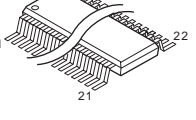
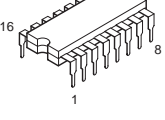
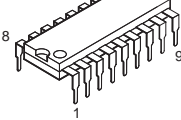
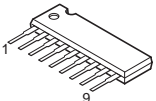
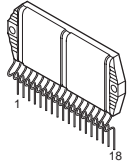
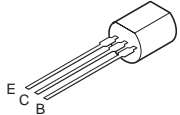
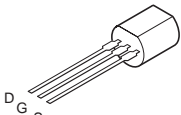
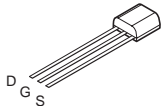
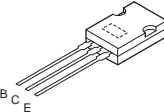
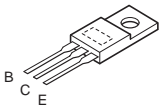
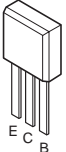
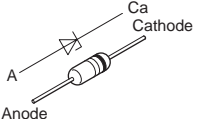
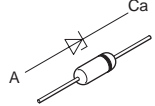
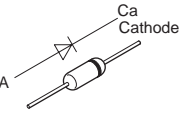
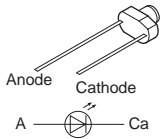
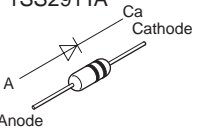
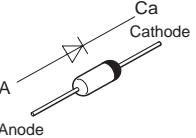
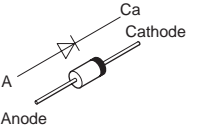
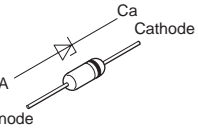


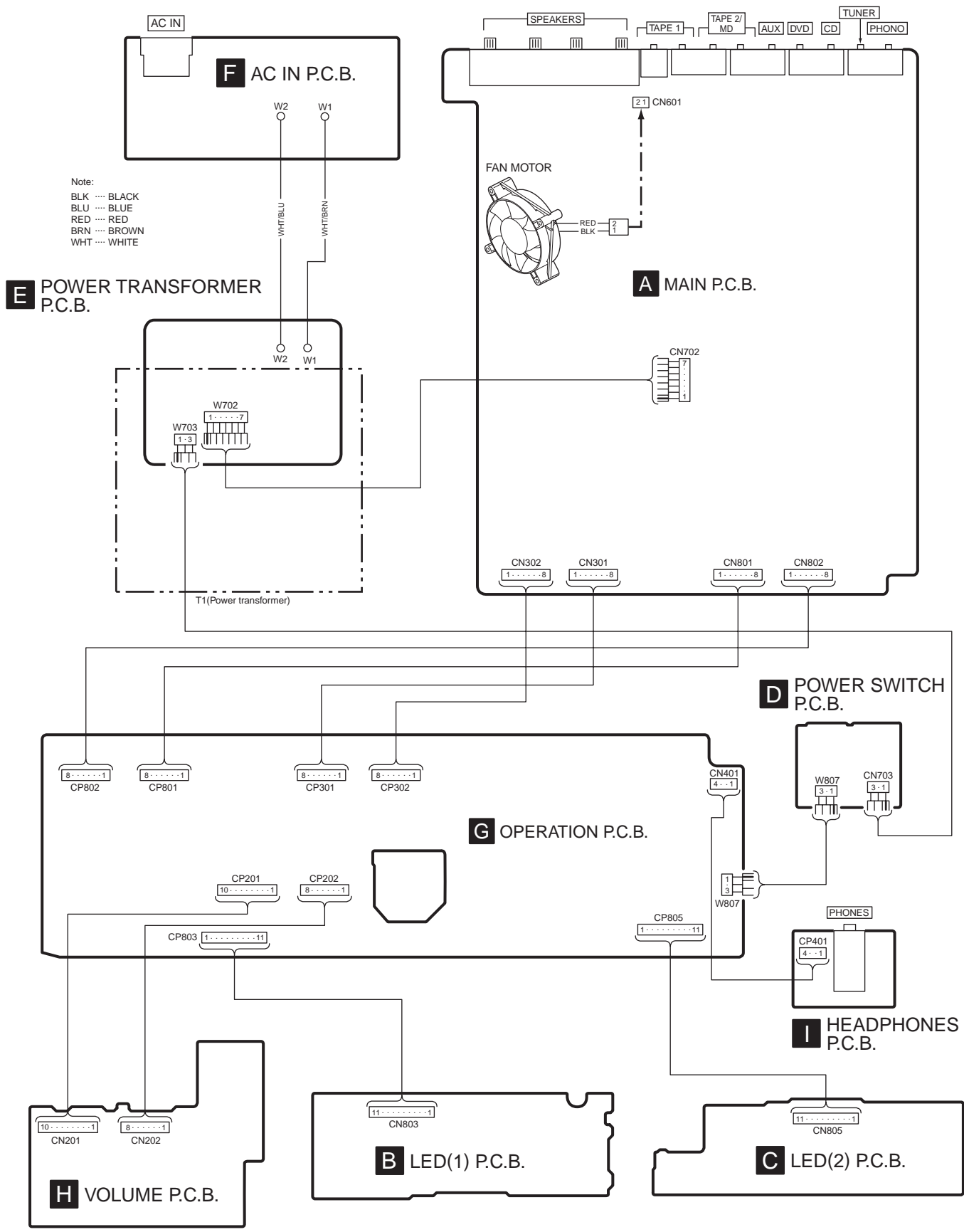


Note : We do not supply those items of parts marked *.

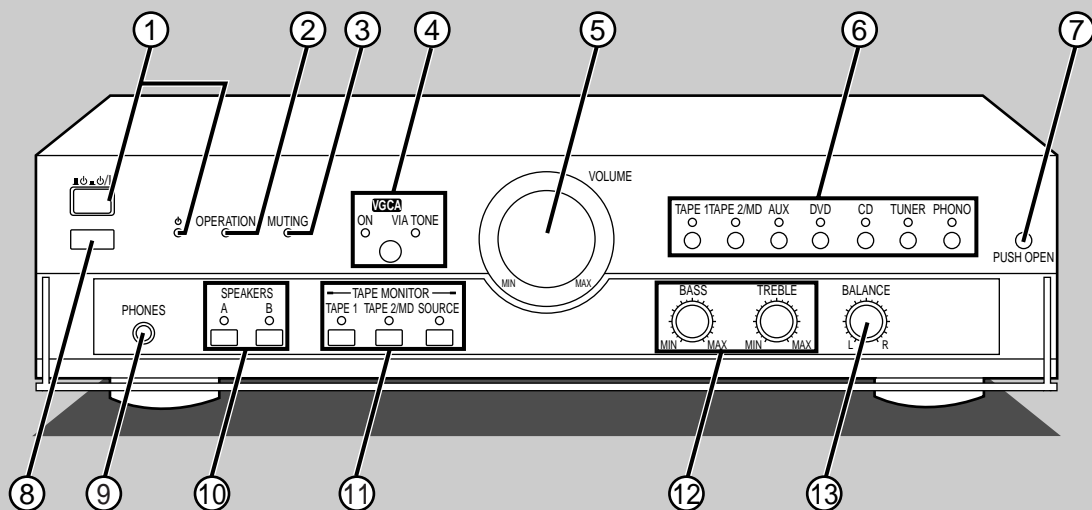




| | | | | | |
|--|---|--|--|--|--|
| <p>UPC4570C AN6558F</p>  | <p>NJM4580DD M5218AP</p>  | <p>NJU7312AL</p>  | <p>M38503M2405F</p>  | <p>TC74HC42AP</p>  | <p>AN7062N</p>  |
| <p>BA6218</p>  | <p>RSN6000B SVI3205B</p>  | <p>2SA992EFPTA 2SA933QRSTA 2SA1123RSTTA 2SB621AQRSTA 2SC2631RSTTA 2SD893RTA</p>  <p>E C B</p> | <p>2SK301QRSTA</p>  <p>D G S</p> | <p>2SK2880BCTA</p>  <p>D G S</p> | |
| <p>2SD2037DEFTA</p>  <p>B C E</p> | <p>2SD2374PQAU 2SB1548PQAU</p>  <p>B C E</p> | <p>2SA1309ATA 2SC3311ATA UN4111TA UN4113TA UN4211TA UN4213TA</p>  <p>E C B</p> | <p>MA4036MTA MA4056MTA MA4068LTA</p>  <p>A Ca Cathode Anode</p> | <p>MA4091MTA MA4056LTA</p>  <p>A Ca Cathode Anode</p> | |
| <p>MA165TA MA29WATA</p>  <p>A Ca Cathode Anode</p> | <p>SLR325DCT31 SLR325VCT31</p>  <p>Anode Cathode A Ca</p> | <p>MA167ATA MA700ATA 1SS291TA</p>  <p>A Ca Cathode Anode</p> | <p>1SR35200TB</p>  <p>A Ca Cathode Anode</p> | <p>P300DLF</p>  <p>A Ca Cathode Anode</p> | <p>MA4160MTA</p>  <p>A Ca Cathode Anode</p> |



Front Panel Controls





Main unit


| No. | Name |
|-----|------|
|-----|------|

① **Unit on/off button (   /I)**
and remote standby indicator ()

Use this button to turn the unit on and off.

-  (off): The unit is in standby mode.
-  (on): The unit is on. The unit can be turned on and off with the remote control. When the unit is turned off with the remote control it is in remote standby and the indicator lights.

The unit is still using a small amount of power in the standby and remote standby conditions. Standby uses less power.

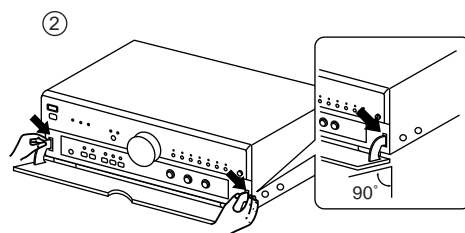
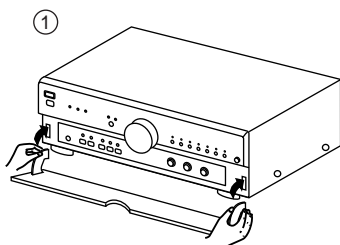
- ② **Operation indicator (OPERATION)**
 ③ **Muting indicator (MUTING)**
 ④ **VGCA button/indicators ()**

| No. | Name |
|-----|------|
|-----|------|

- ⑤ **Volume control (VOLUME)**
 ⑥ **Input select buttons/indicators**
 ⑦ **Panel button (PUSH OPEN)**
 Press to open the clear panel.
 Close by hand.
 ⑧ **Remote control signal sensor**
 ⑨ **Headphone jack (PHONES)**
 ⑩ **Speaker select buttons/indicators (SPEAKERS A, B)**
 ⑪ **Tape monitor buttons/indicators (TAPE MONITOR)**
 ⑫ **Tone controls (BASS, TREBLE)**
 ⑬ **Balance control (BALANCE)**

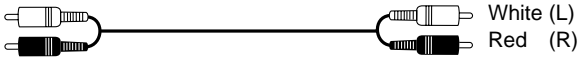
If the clear panel comes off

- ① Insert the panel as shown in the illustration.
- ② Ensure the panel is parallel to the unit, then press firmly down and in on the levers until they click into place.
- ③ Check that the panel now moves correctly.
 If it does not, remove it and repeat the above procedure.

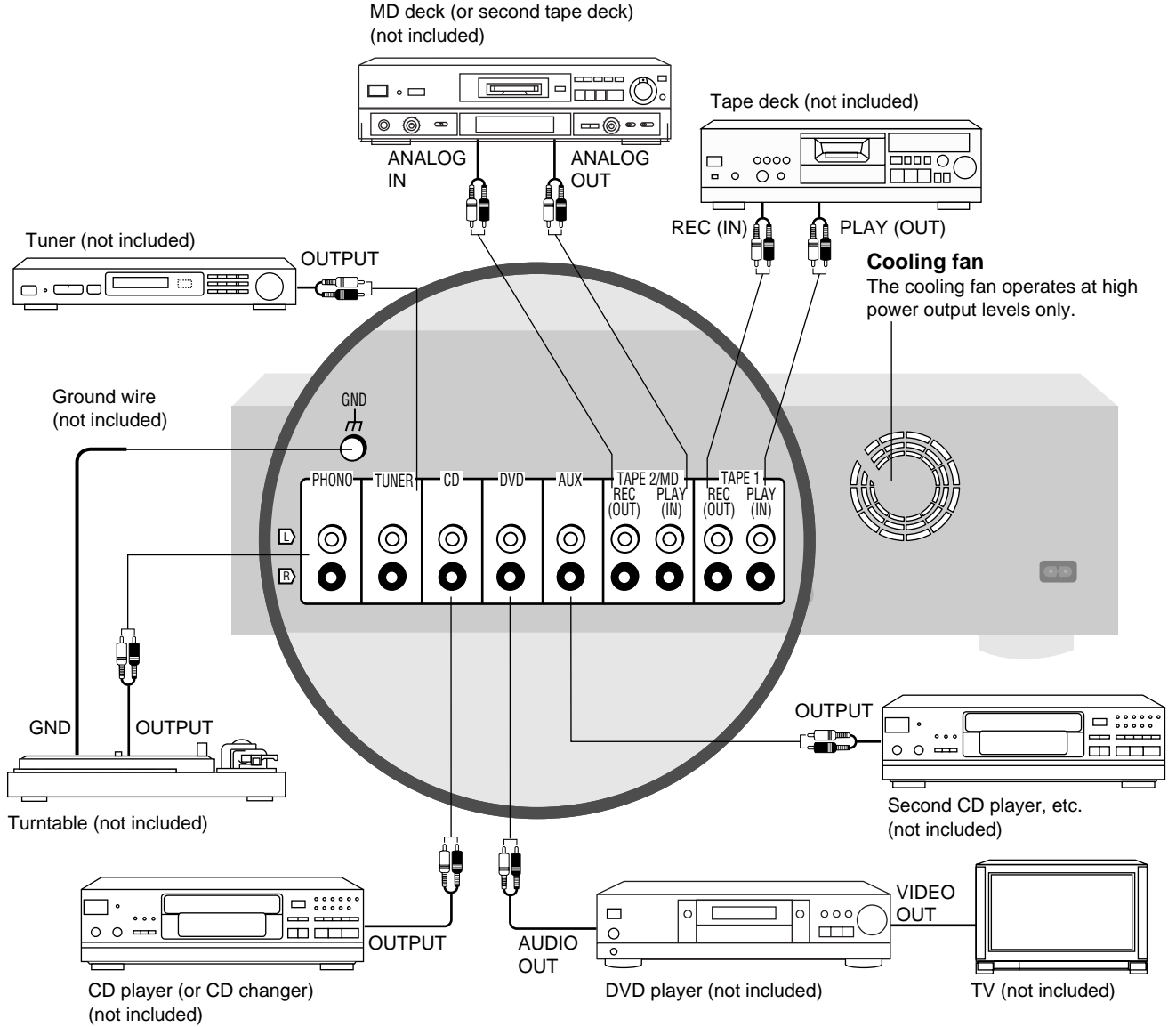


Connections

Stereo phono cable (not included)

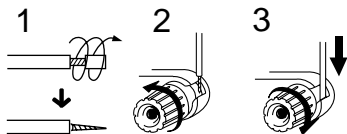


Connections to other equipment



Connecting the speakers

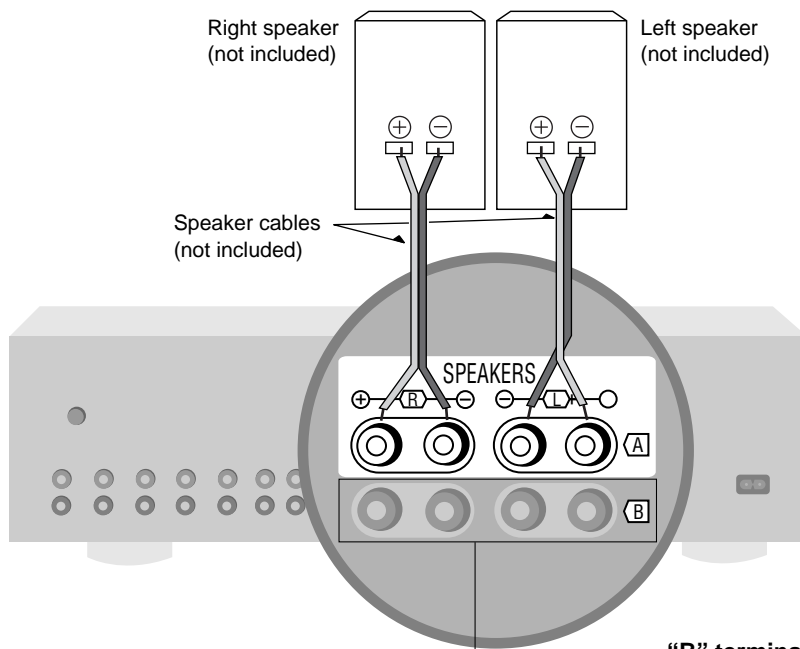
Connecting the speaker cables



NO

Caution

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



“B” terminals

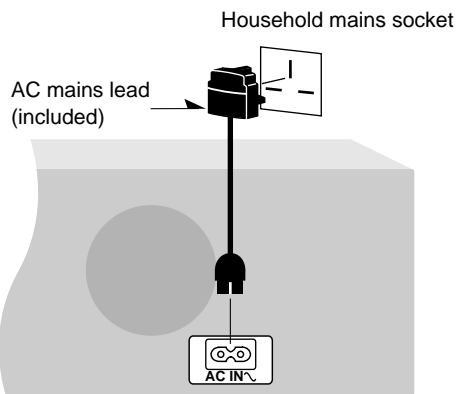
For connection to a second pair of speakers.

Speaker impedance

When only the “A” or only the “B” terminals are used: 4–16 Ω

When the “A” and “B” terminals are used simultaneously: 8–16 Ω

Connecting the power supply

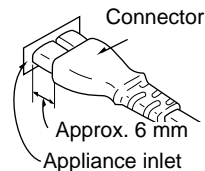


BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD BEFORE CONNECTION.

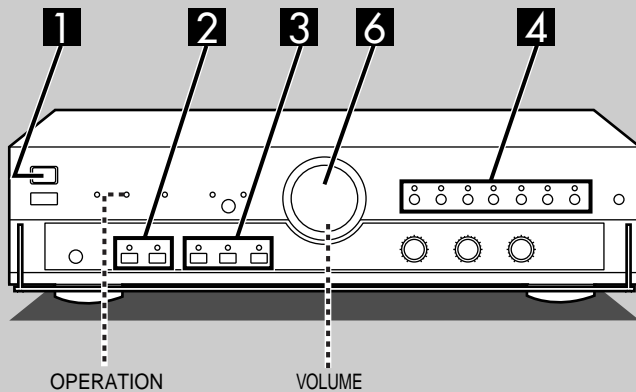
Connect the AC mains lead only after all other connections have been made.

Insertion of connector

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



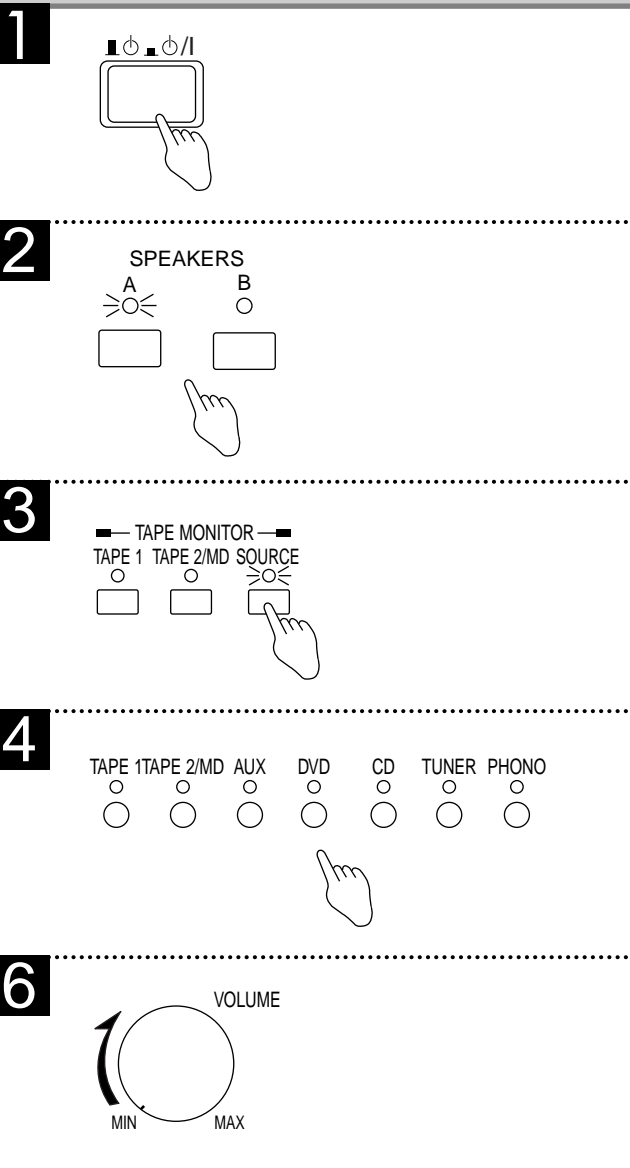
■ Listening



Preparation

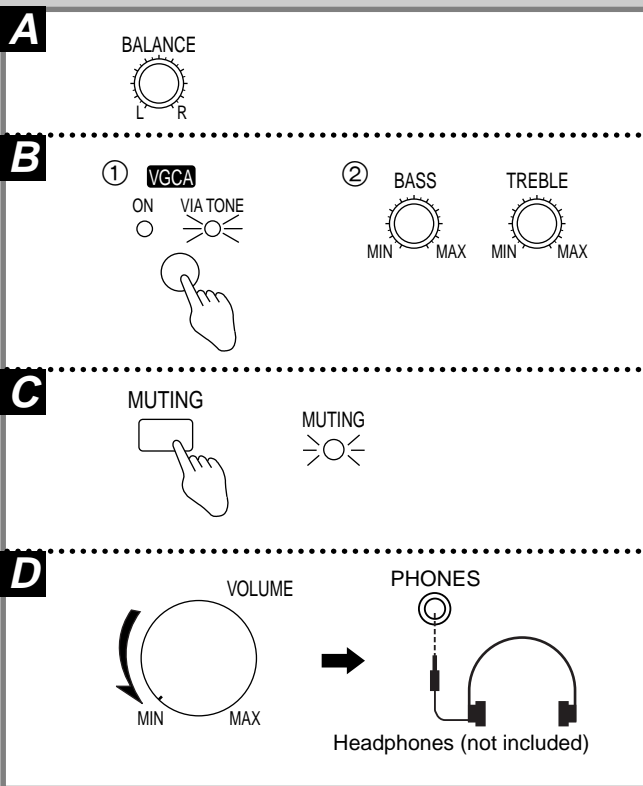
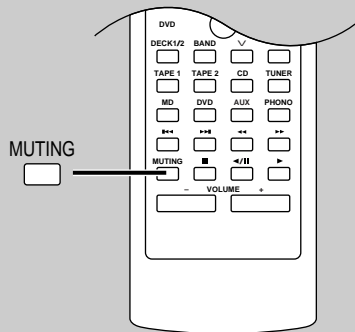
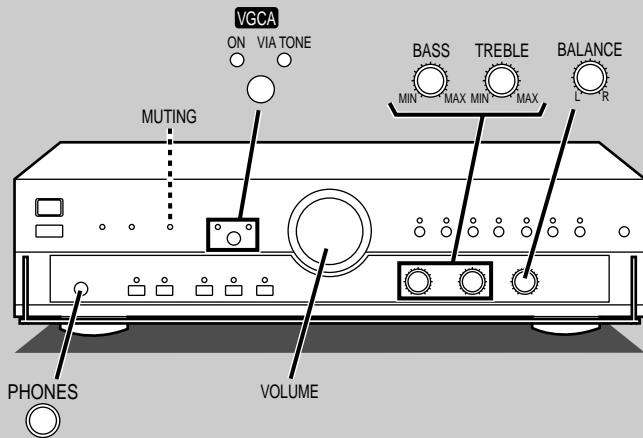
Before operation, set [VOLUME] to the "MIN" position.

- 1** Press [].
About 4 seconds later, the "OPERATION" indicator will light up.
- 2** Select the speakers to be used.
The corresponding speaker indicator will illuminate.
- 3** Press [SOURCE].
- 4** Press input select buttons to select the desired source.
The corresponding indicator lights.
TAPE 1: Tape deck
TAPE 2/MD: Second tape deck or MD deck
AUX: Component connected to the "AUX" terminals
DVD: DVD player
CD: CD player (or CD changer)
TUNER: Tuner
PHONO: Turntable
- 5** Start the desired source.
Refer to the appropriate operating instructions for details.
- 6** Adjust the volume.



After listening is finished

Be sure to reduce the volume level, and turn the unit off by pressing the unit on/off button.



To adjust the sound balance A

Turn **[BALANCE]** to adjust the left/right sound balance.

The VGCA circuit

This unit features a state-of-the-art variable gain control amplifier (VGCA).

Rather than reducing the volume of the input signal and then amplifying it as was done in the past, this unit uses the VGCA circuit to change the gain of the amplifier itself.

This has resulted in a 10 dB improvement on the S/N ratio of past models.

Leave VGCA on during normal use.

VGCA is switched on at the time of purchase.

To adjust the tone quality B

- ① Press **[VGCA]** to turn the “VIA TONE” indicator on.
- ② Turn **[BASS]** to adjust the low-frequency sound. Turn **[TREBLE]** to adjust the high-frequency sound.

Press again to turn VGCA on again. Sound is heard unadjusted.

To mute the sound level C

Remote control only

Press **[MUTING]**.

The “MUTING” indicator on this unit will light up.

Press again to restore the volume indicated by the volume control. The “MUTING” indicator will turn off.

Note

Muting is also canceled when the unit is turned off.

To listen through headphones D

Decrease the volume, and connect the headphones.

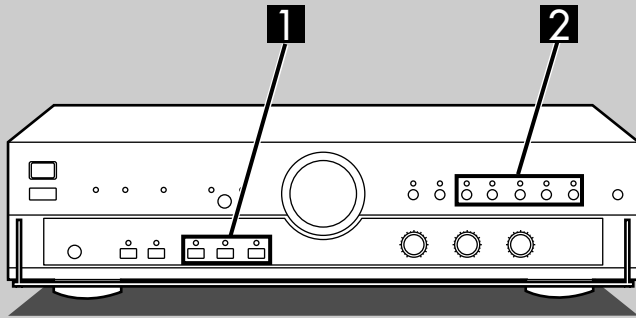
Plug type: 6.3 mm stereo

If sound from speakers is not wanted, press **SPEAKER [A]** and/or **[B]** to turn off the speaker indicators.

Note

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

Recording



Connect the tape deck or MD deck to either of the "REC (OUT) (TAPE 1 or TAPE 2/MD)" terminals on the back of the unit.

1 Press [SOURCE].

2 Press on input select button to select the source to be recorded.

AUX: Equipment connected to the AUX terminal.

DVD: DVD player

CD: CD player (or CD changer)

TUNER: Tuner

PHONO: Turntable

3 Begin recording on tape deck or MD deck.
Follow your equipment's operating instructions.

4 Begin the source to be recorded.

Note

Some DVD players need special settings before recording. See the DVD player's operating instructions for details.

Recording between TAPE 1 and TAPE 2/MD

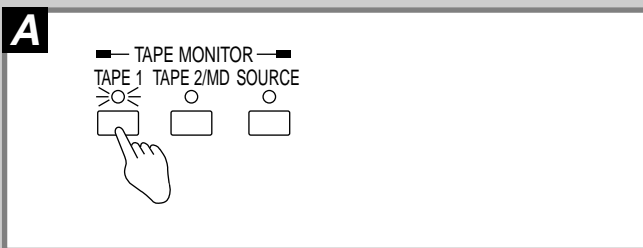
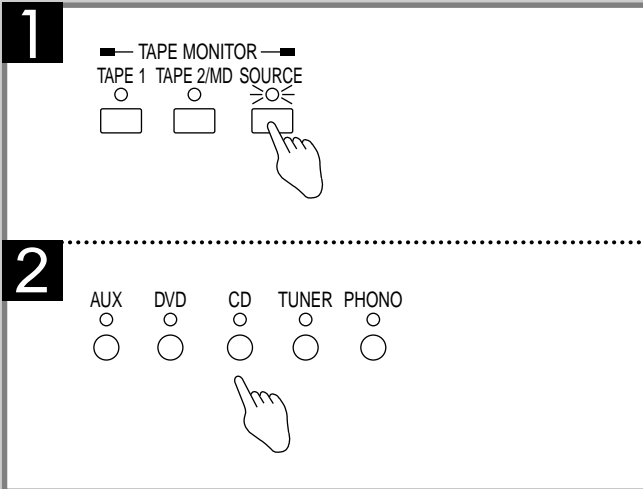
You can record from TAPE 1 to TAPE 2/MD and vice versa.

From TAPE 1 to TAPE 2/MD

- 1 Press [SOURCE].
- 2 Press input select buttons [TAPE 1].
- 3 Start recording on the recording deck and playback on the playback deck.

From TAPE 2/MD to TAPE 1

In step 2, press input select buttons [TAPE 2/MD].



To check a recording

With a tape deck with 3 heads, it is possible to monitor the sound recorded.

Press [TAPE MONITOR (TAPE 1 or TAPE 2/MD)] and set the monitor switch on the tape deck to "TAPE".

TAPE 1: To monitor the deck connected to the TAPE 1 terminals.

TAPE 2/MD: To monitor the deck connected to the TAPE 2/MD terminals.

Note

When finished using the tape monitor, press [SOURCE] again.