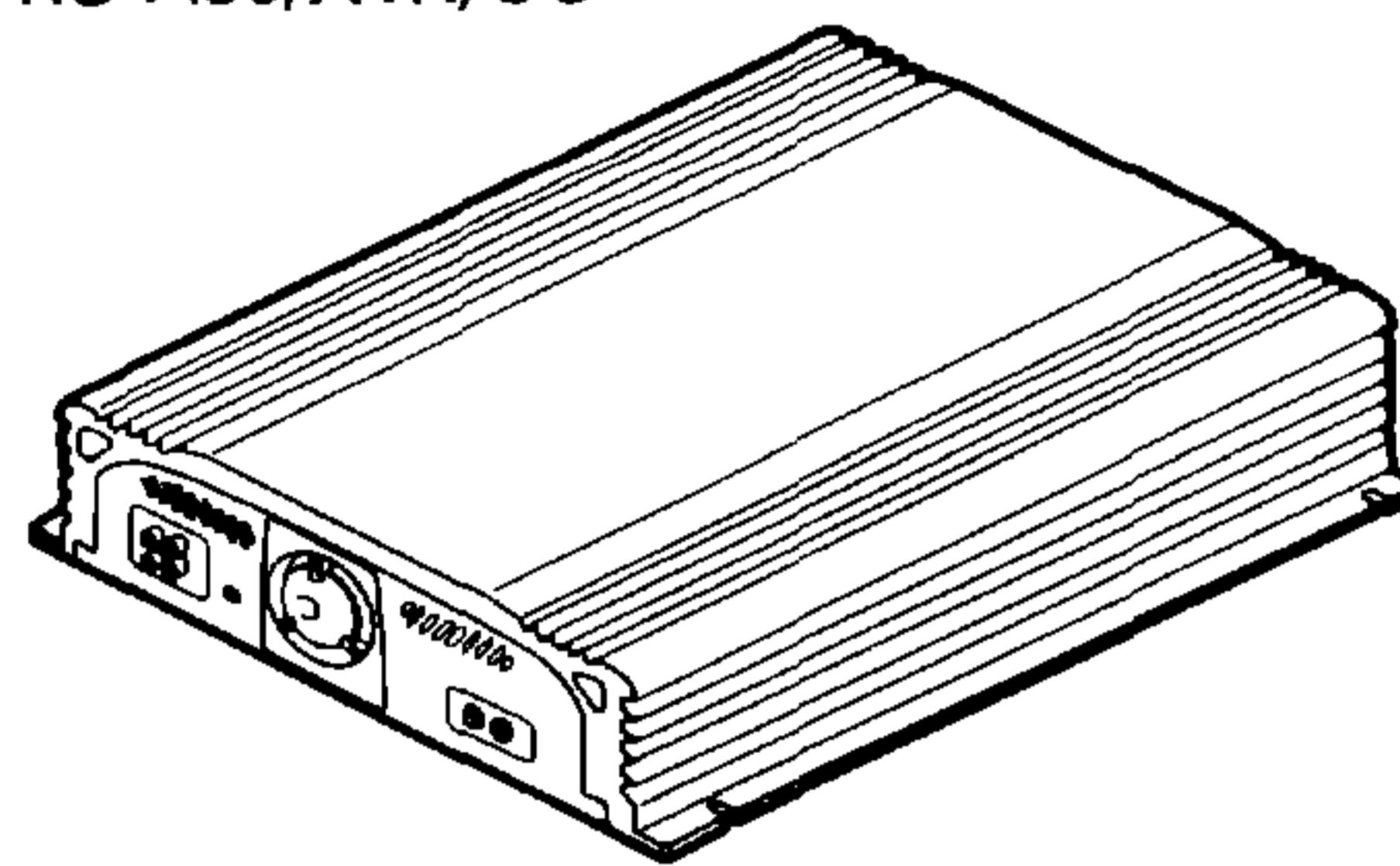


Service Manual

PIONEER®

The Art of Entertainment

RS-A50/X1H/UC



ORDER NO.
CRT1826

OPTICAL DIGITAL REFERENCE SYSTEM CLASS A BRIDGEABLE 4-CH POWER AMPLIFIER

RS-A50

X1H/UC

BRIDGEABLE FOUR-CHANNEL POWER AMPLIFIER

GM-A5040

X1H/UC

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1. SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

2. SPECIFICATIONS

Power source	14.4 V DC (10.8 — 15.6 V allowable)
Grounding system.....	Negative type
Current consumption.....	38 A (4 Ω Continuous power) 1.5 A (4 Ω, No signal)
Average current consumption*	10 A (4 Ω, 4 channels) 17 A (4 Ω, 2 channels)
Fuse	Main unit: 20 A × 2
Dimensions.....	250 (W) × 57.5 (H) × 310 (D) mm [9-7/8 (W) × 2-1/4 (H) × 12-1/4 (D) in.]
Weight.....	4.7 kg (10.3 lbs.)
Maximum power output	100 W × 4 / 300 W × 2 300 W × 1 + 100 W × 2
Continuous power output	50 W × 4 (at 14.4 V, 4 Ω, 20 Hz — 20 KHz, 0.04% THD) 150 W × 2 (at 14.4 V, 4 Ω, 20 Hz — 20 KHz, 0.4% THD) 75 W × 4 (at 14.4 V, 2 Ω, 20 Hz — 20 KHz, 0.4% THD) 50 W × 4 (at 12 V, 4 Ω, 20 Hz — 20 KHz, 0.04% THD) 120 W × 2 (at 12 V, 4 Ω, 20 Hz — 20 KHz, 0.4% THD) 60 W × 4 (at 12 V, 2 Ω, 20 Hz — 20 KHz, 0.4% THD)
Frequency response	7 — 85 kHz (+0 dB, -1 dB)
Distortion.....	0.0015% (10 W, 1 kHz)
Signal-to-noise ratio.....	106 dB (IHF — A network)
Load impedance.....	4 Ω (2 — 8 Ω allowable)
Slew Rate.....	40 V/μsec.
Separation	75 dB (1 kHz)
Damping factor	140
Headroom margin	0 dB
Input level / impedance	0.4 — 2 V/22 kΩ

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

***Average current draw**

The average current drawn is nearly the maximum current drawn by this unit when an audio signal is input. Use this value when working out total current drawn by multiple power amplifiers.

3. OPERATION AND CONNECTION

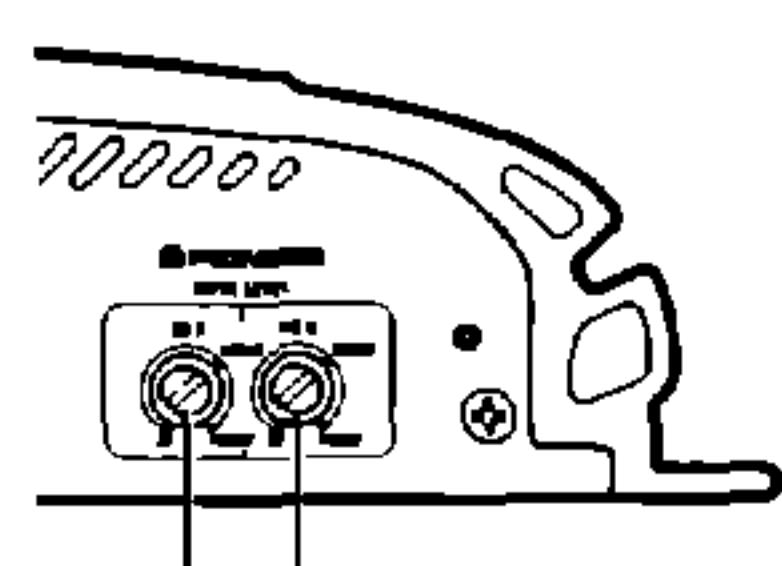
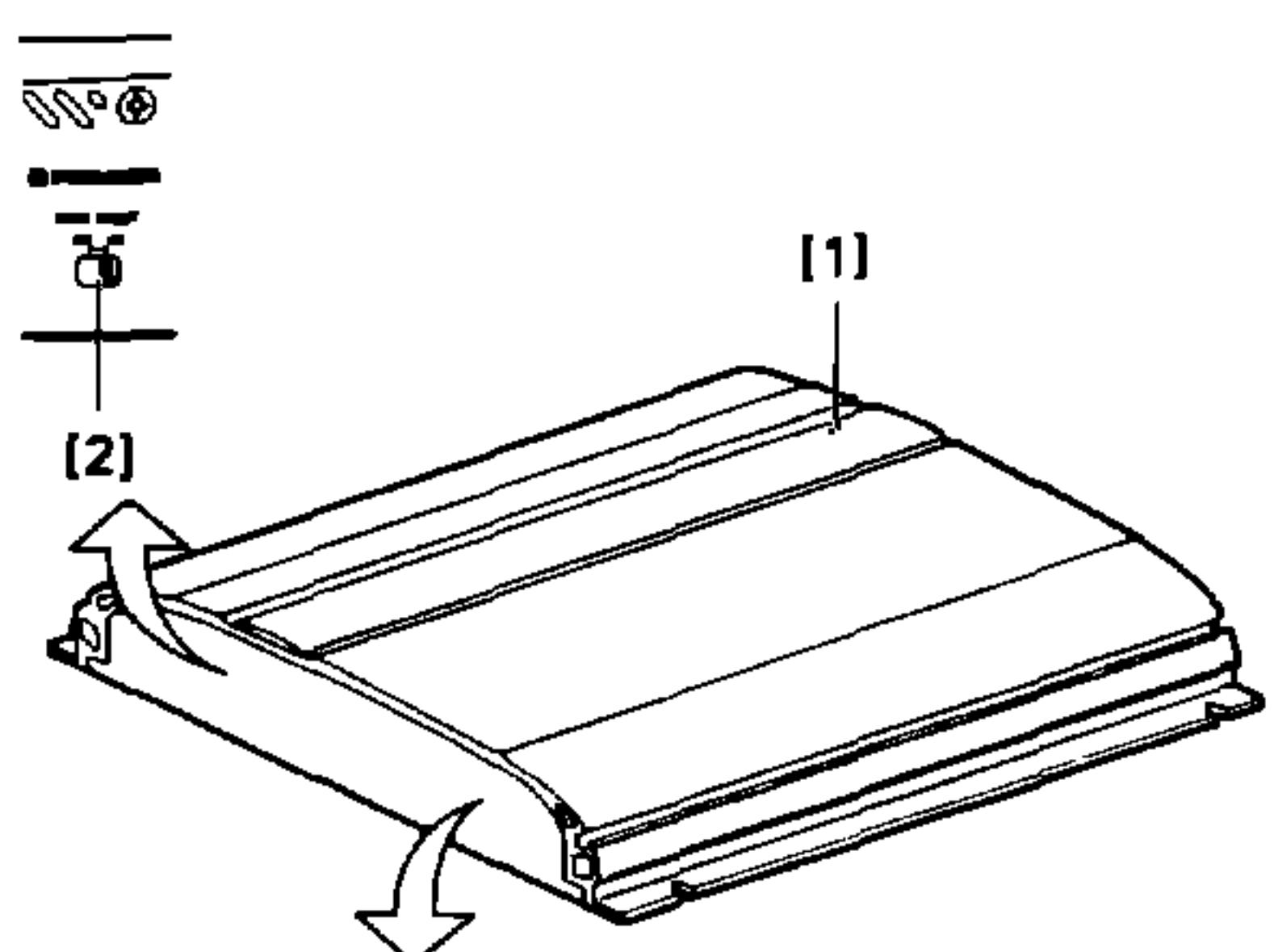


Fig. 1

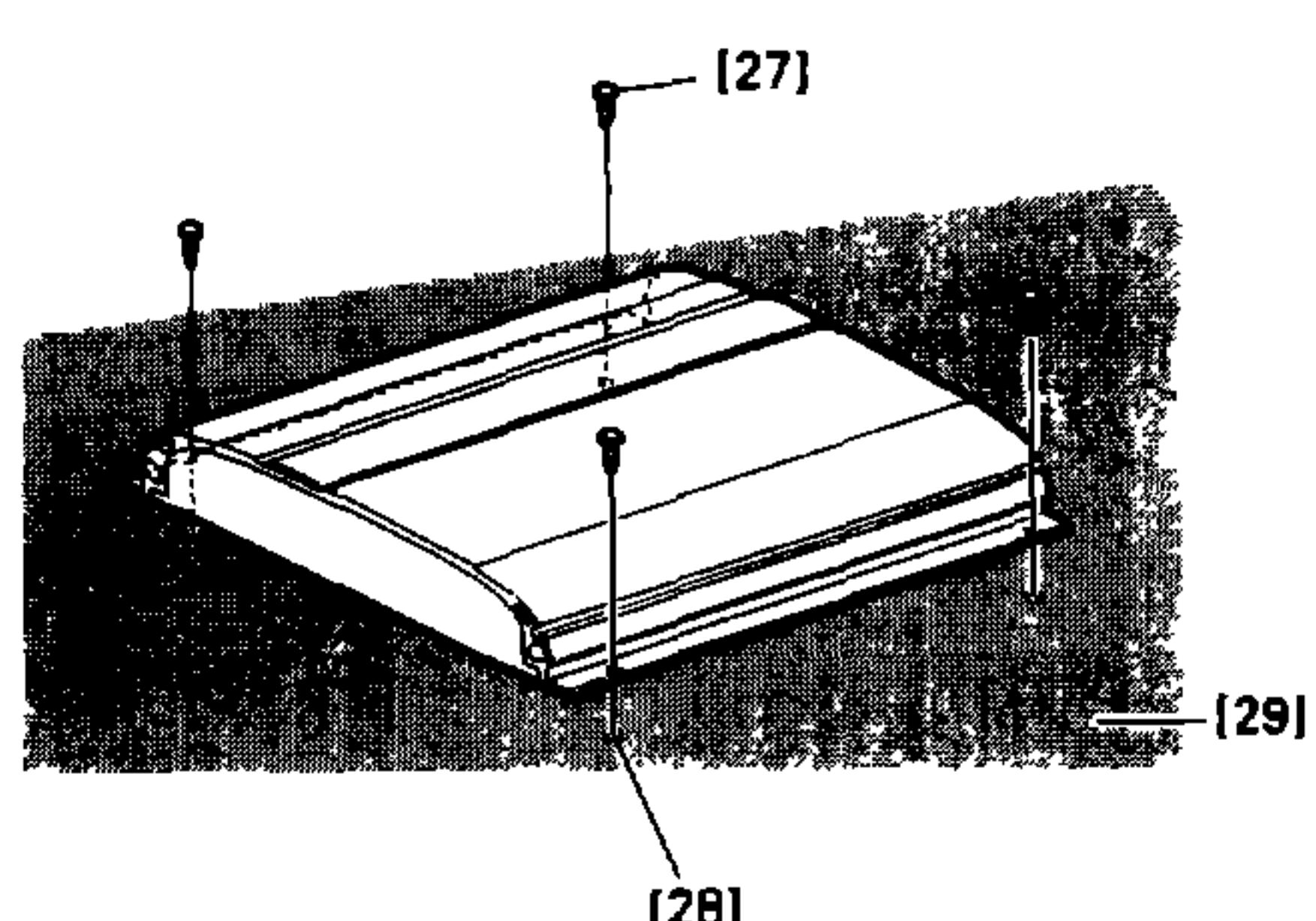


Fig. 3

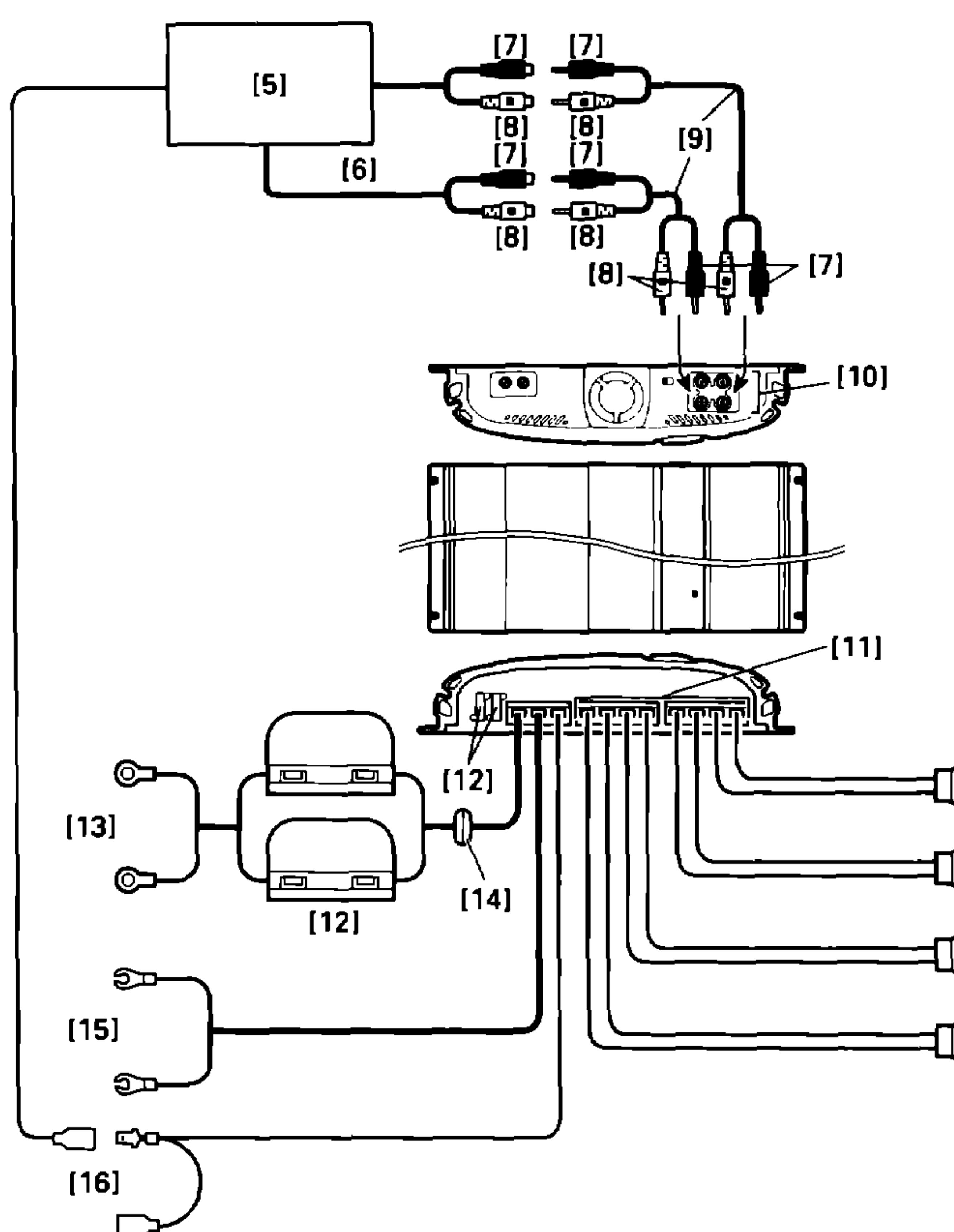


Fig. 2

Setting the Unit

(Fig. 1)

[1] Power Indicator

The power indicator lights when the power is switched on.

[2] RCA Input Select Switch

For two-channel input, slide this switch to the left. For four-channel input, slide this switch to the right.

[3], [4]

Input Level Adjustment

Adjusting the input level controls A and B will help match the output of the car stereo to the Pioneer amplifier. Input level control A is used to adjust the volume of speaker output A; Input level control B is used to adjust the volume of speaker output B. Normally, set the switch to the "500 mV" position. If the output is low even when the volume of the car stereo is turned up, turn these controls clockwise. If there is distortion when the volume of the car stereo is turned up, turn these controls counter-clockwise.

- If you only use one input plug, set the input level controls for speaker outputs A and B to the same position.
- Set the input level control to 500 mV when this amplifier is connected to a Pioneer car stereo with RCA output jacks. If the sound is too low or distorts, adjust the input level control.

Connecting the Unit

⚠ CAUTION

- Remove the negative (-) terminal of the battery to avoid the risk of short-circuit and damage to the unit.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Do not route wires where they will get hot, for example where the heater will blow over them. If the insulation heats up, it may become damaged, resulting in a short-circuit through the vehicle body.
- Make sure that wires will not interfere with moving parts of the vehicle, such as the gearshift, handbrake or seat sliding mechanism.
- Do not shorten any wires. Otherwise the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply wire to tap from the wire. The current capacity of the wire will be exceeded, causing overheating.
- Always use the special red battery and ground wire [RD-223], which is sold separately. Connect the special red battery wire directly to the car battery positive terminal (+) and the black ground wire to the car body. (The special red battery and ground wire [RD-223] are designed so that the amplifier can be safely connected.)

🚫 To prevent damage

- Do not ground the speaker wire directly or connect a negative (-) lead wire for several speakers.
- Speakers to be connected to the amplifier should conform with the standards listed below. Otherwise damage will occur to the speaker. The speaker impedance must be 2 to 8 ohms.

Speaker		Power
Channel	Type	
Four-channel	Sub-woofer	Nominal input: Min. 50 W
	Other than sub-woofer	Max. input: Min. 100 W
Two-channel	Sub-woofer	Nominal input: Min. 150 W
	Other than sub-woofer	Max. input: Min. 300 W
Three-channel (stereo)	Sub-woofer	Nominal input: Min. 50 W
	Other than sub-woofer	Max. input: Min. 100 W
Three-channel (mono)	Sub-woofer	Nominal input: Min. 150 W
	Other than sub-woofer	Max. input: Min. 300 W

- This unit is for vehicles with a 12-volt battery and negative ground. Before installing it in a recreational vehicle, truck or bus, check the battery voltage.
- Install and route the sold separately special red battery wire [RD-223] as faraway as possible from the speaker wires. Install and route the sold separately special red battery wire and ground wire [RD-223], speaker wires and the amplifier as faraway as possible from the antenna, antenna cable and tuner.

🚫 If many units are connected

- If the car stereo is kept on for a long time while the engine is at rest or idling, the battery may go dead. Turn the car stereo off when the engine is at rest or idling.
- If the blue wire of the amplifier is connected to the power terminal through the ignition switch (12 V DC), the amplifier will always be on when the ignition is on—regardless of whether the car stereo is on or off. Because of this, the battery could go dead if the engine is at rest or idle.

(Fig. 2)

- [5] Car stereo with RCA output jacks
 [6] External Output
 [7] Red
 [8] White
 [9] Connecting wires with RCA plugs (sold separately)
 For details on how to connect to RCA input jacks A and B, see the "Connecting the Speakers and Input wires" section.

- [10] RCA input jack A, B
- [11] Speaker output terminals
 See the "Connecting the Speakers and Input wires" section for speaker connection instructions.
- [12] Fuse (Special red battery wire: 30 A × 2, Amplifier: 20 A × 2)
- [13] Special red battery wire [RD-223] (sold separately)
 After making all other connections to the amplifier, connect the battery wire terminal of the amplifier to the positive (+) terminal of the battery.
- [14] Grommet
- [15] Ground wire (black) [RD-223] (sold separately)
 Connect to metal body or chassis.
- [16] Blue [RD-223] (sold separately)
 Connect the male terminal of this wire to the blue wire of the car stereo (system remote control terminal). The female terminal can be connected to the auto-antenna relay control terminal. If the car stereo does not have a system remote control terminal, connect the male terminal to the power terminal through the ignition switch.

Connecting the Power Terminal

- Always use the special red battery and ground wire [RD-223], which is sold separately. Connect the special red battery wire directly to the car battery positive terminal (+) and the black ground wire to the car body. (The special red battery and ground wire [RD-223] are designed so that the amplifier can be safely connected.)
- 1. Pass the special red battery wire from the engine compartment to the interior of the vehicle.

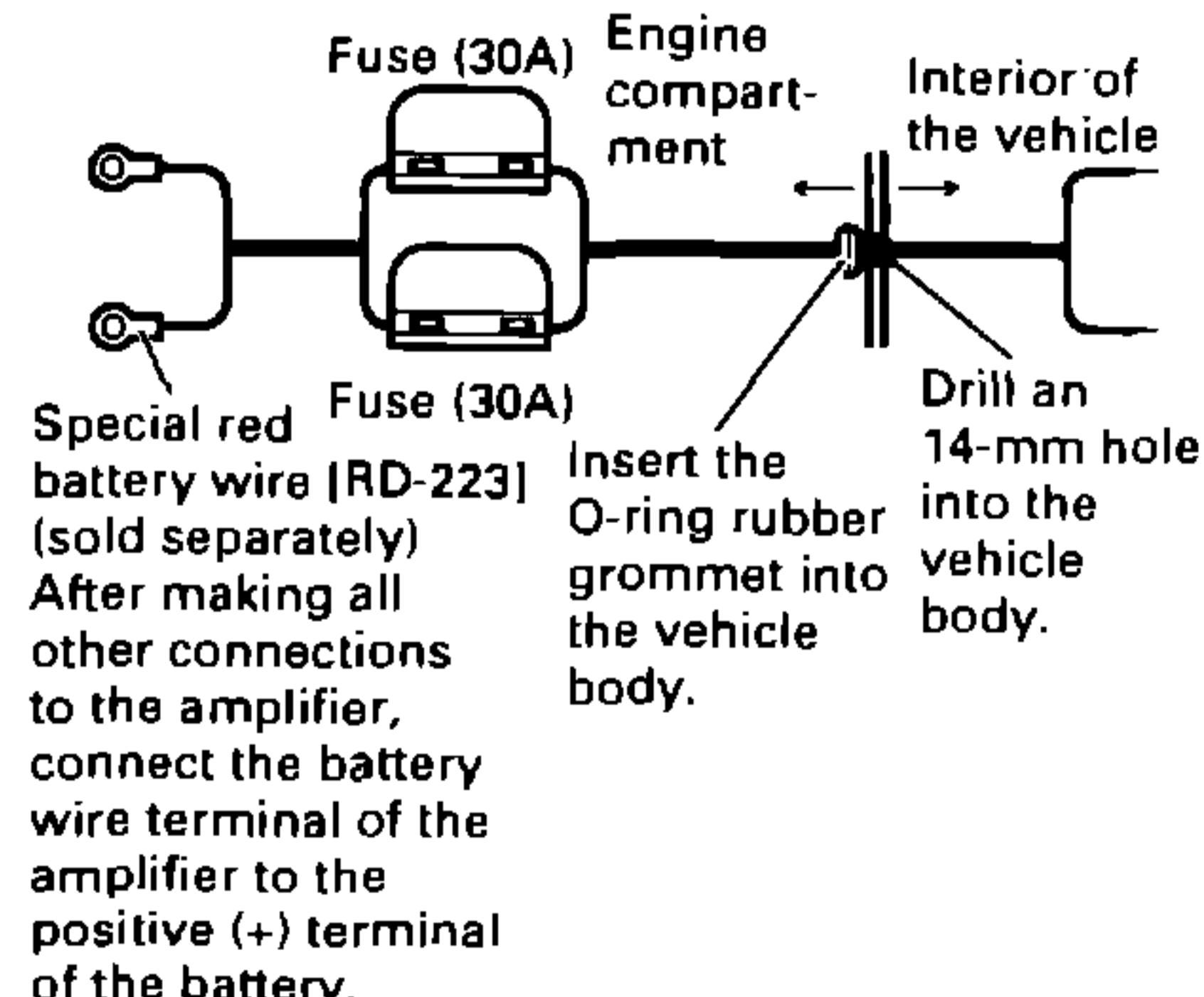


Fig. 4

- 2. Twist the sold separately special red battery wire, ground wire and system remote control wire [RD-223].



Fig. 5

- 3. Connect the wires to the terminal.

- Fix the wires securely with the terminal screws.

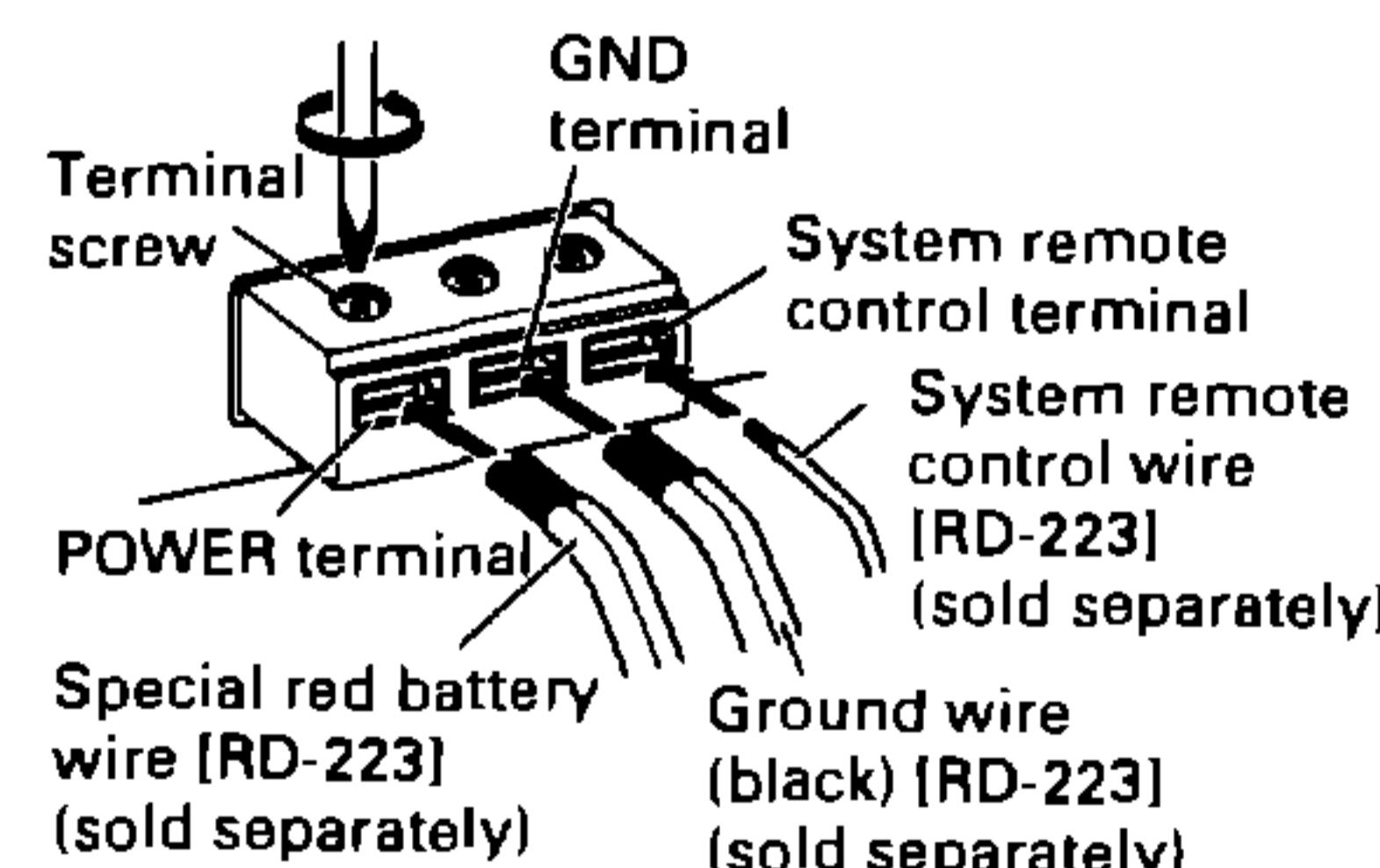


Fig. 6

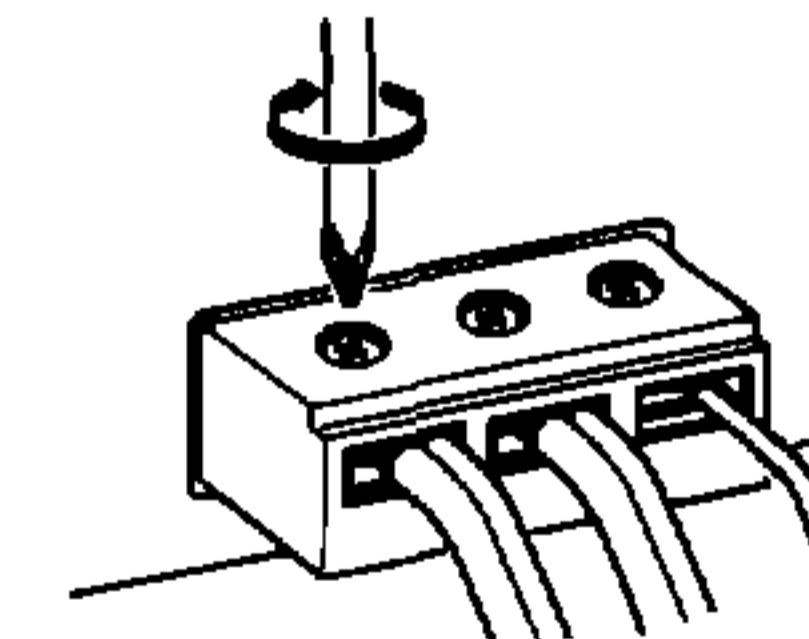


Fig. 7

- 4. Bundle the wires at a point about 100 mm away from the terminal with a clamp [RD-223].**
- Be sure to fix the wires securely with the clamp.

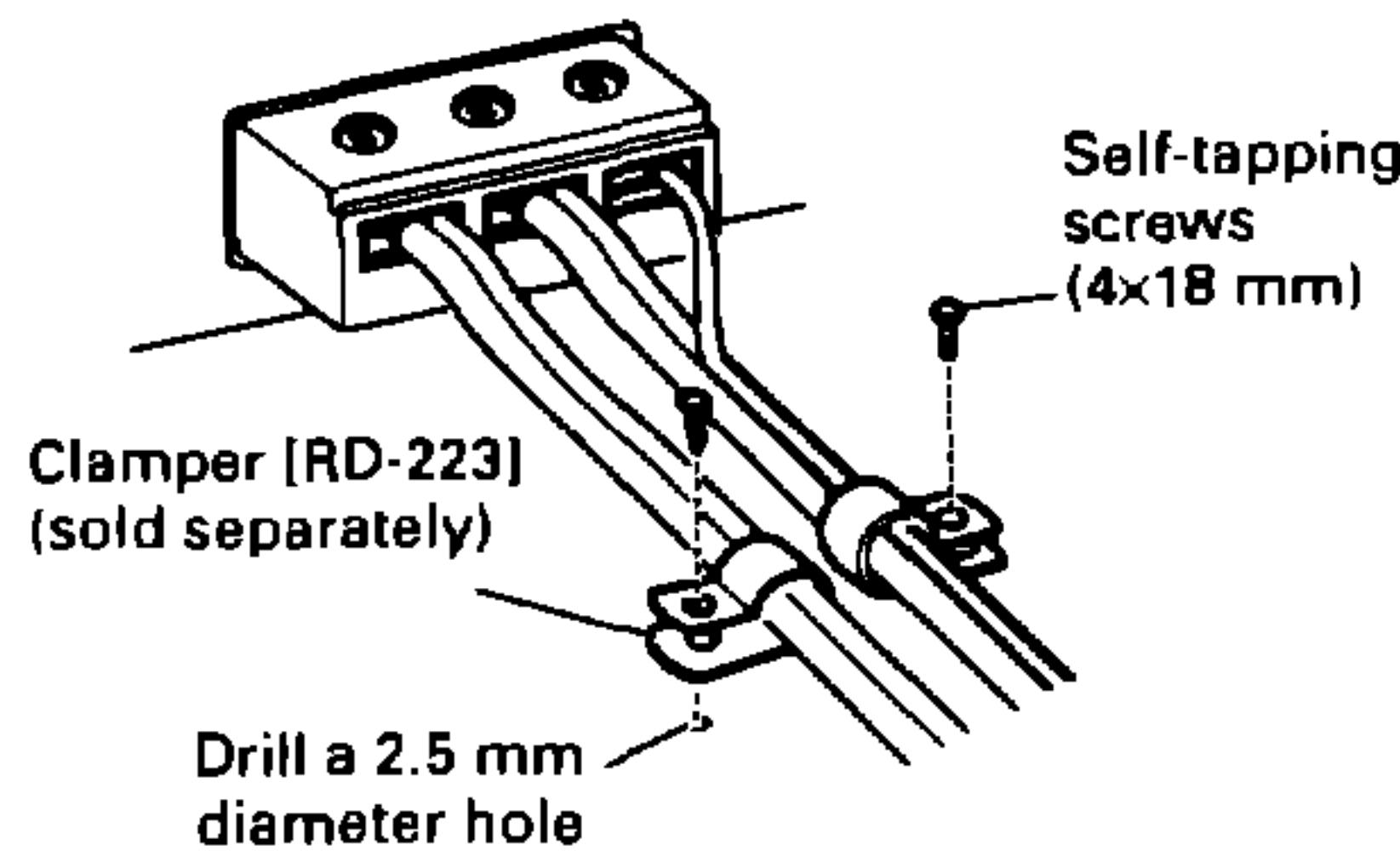


Fig. 8

Connecting the Speakers and Input wires

The speaker output mode can be four-channel, three-channel (stereo + mono) or two-channel (stereo, mono). Connect the speakers according to figures on the following pages.

Four-channel mode (RCA terminal side)

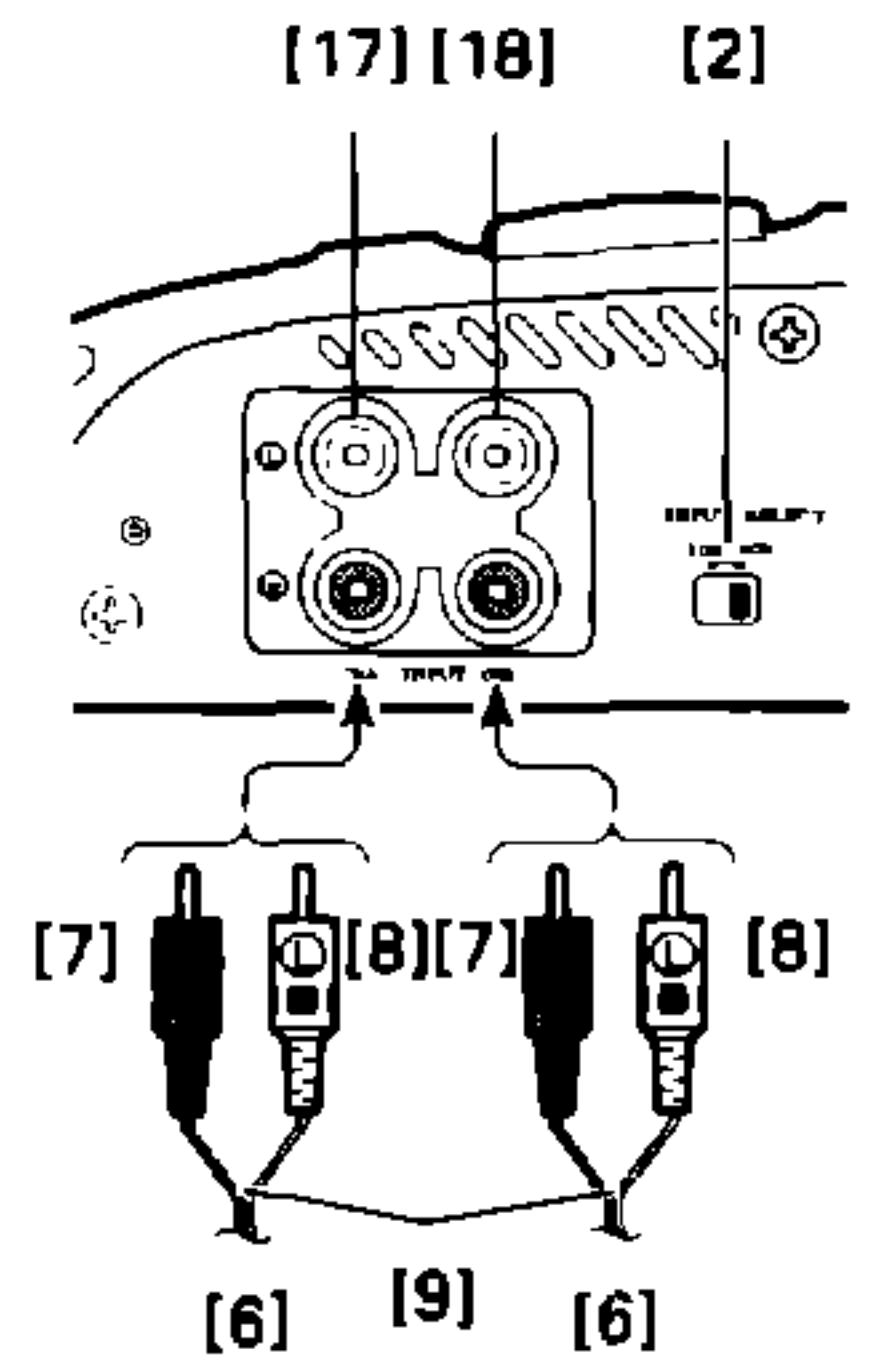


Fig. 9

(Speaker output terminal side)

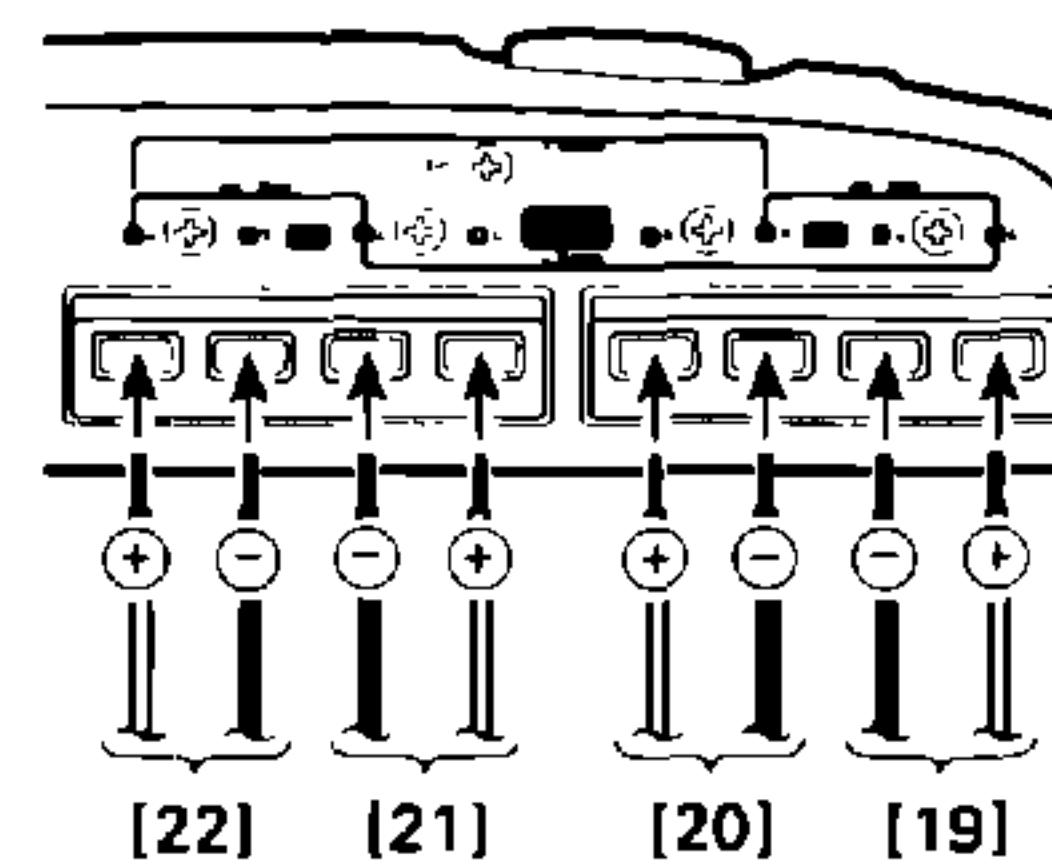


Fig. 10

(Fig. 9, 10)

- [2] RCA Input Select Switch
For two-channel input, slide this switch to the left. For four-channel input, slide this switch to the right.

- [6] From car stereo (RCA output)
If only one input plug is used, such as when the car stereo has only one output (RCA output), connect the plug to RCA input A, and do not connect any plug to RCA input B.

- [7] Red
[8] White
[9] Connecting wires with RCA plugs (sold separately)
[17] RCA input jack A
[18] RCA input jack B

- Connect the front or rear output plugs to jacks [17] or [18], according to your system.

- [19] Speaker out B: Speaker (left)

- [20] Speaker out B: Speaker (right)

- [21] Speaker out A: Speaker (left)

- [22] Speaker out A: Speaker (right)

Three-channel mode (RCA terminal side)

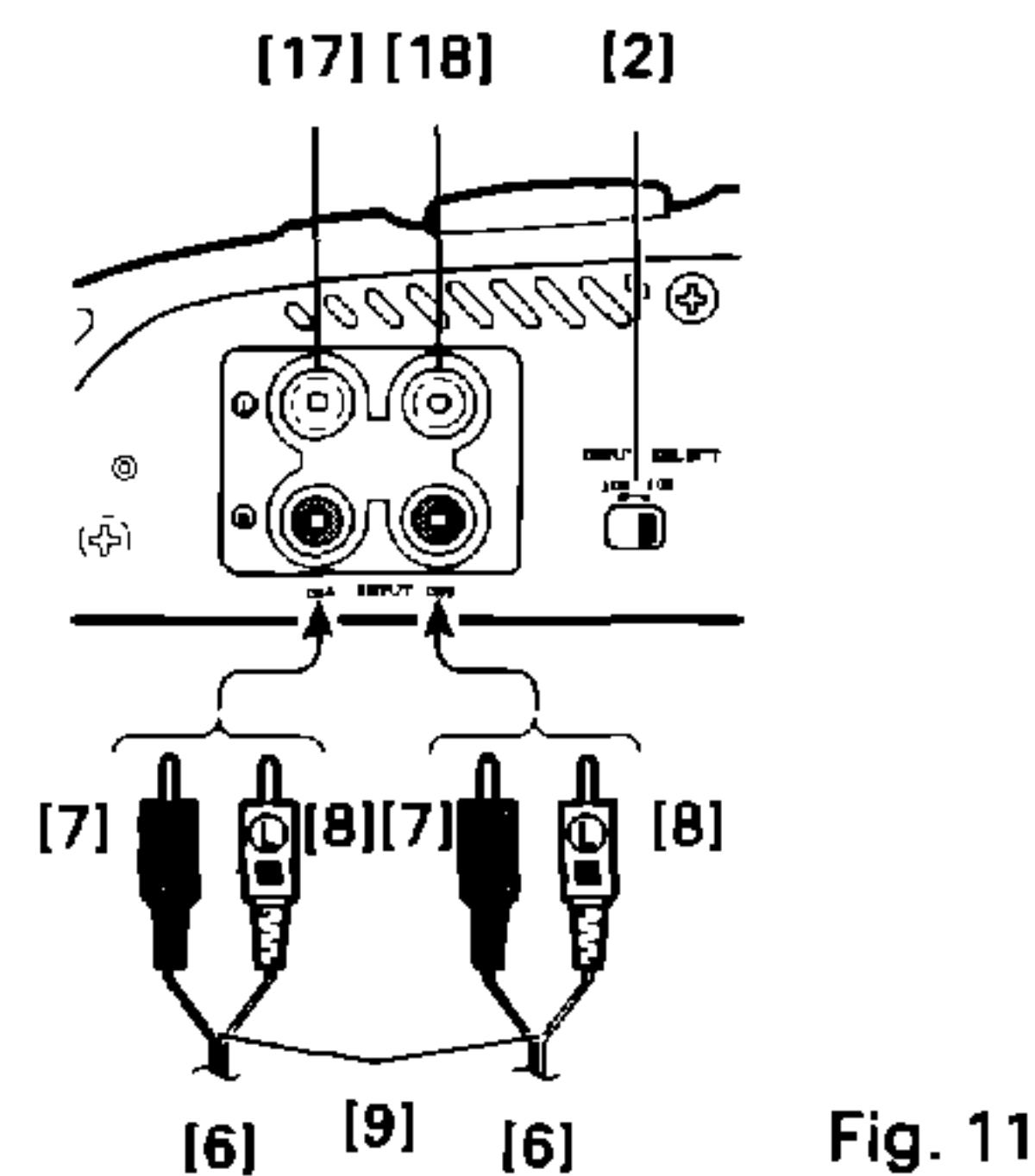


Fig. 11

(Speaker output terminal side)

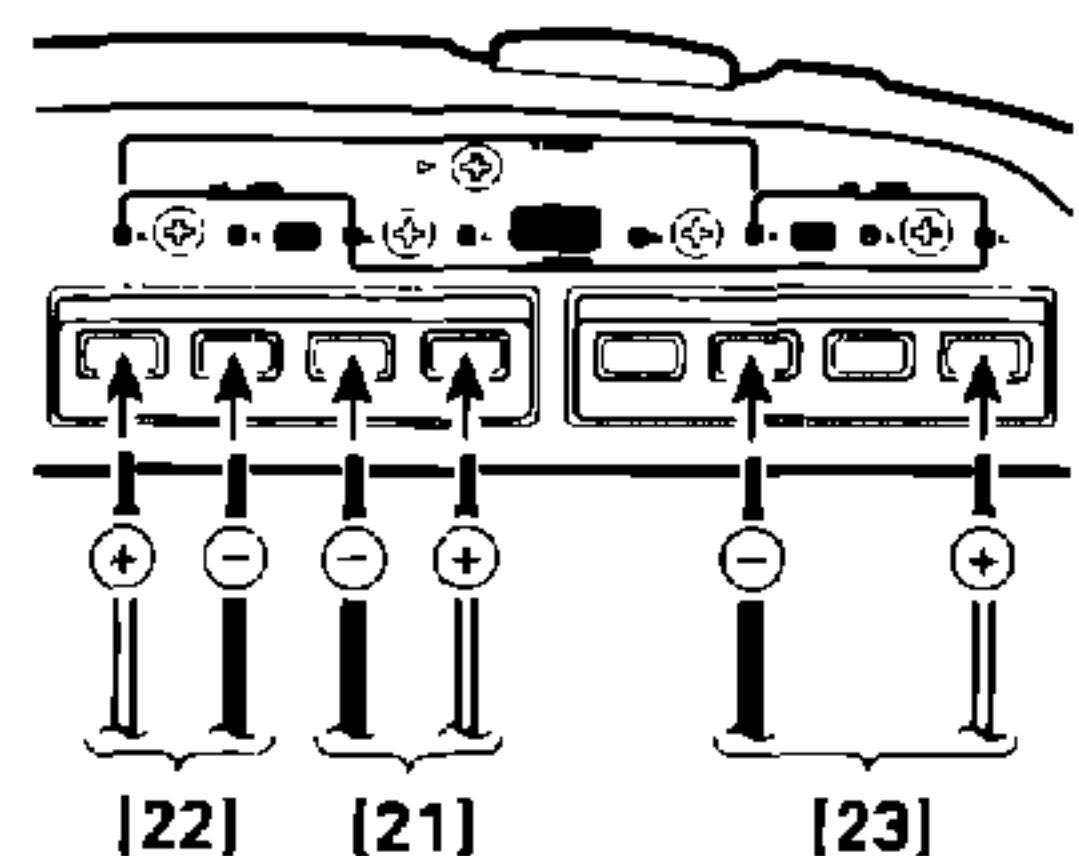


Fig. 12

(Fig. 11, 12)

- [2] RCA Input Select Switch
For two-channel input, slide this switch to the left. For four-channel input, slide this switch to the right.

- [6] From car stereo (RCA output)
If only one input plug is used, such as when the car stereo has only one output (RCA output), connect the plug to RCA input A, and do not connect any plug to RCA input B.

- [7] Red
[8] White
[9] Connecting wires with RCA plugs (sold separately)
[17] RCA input jack A
[18] RCA input jack B

- Connect the front or rear output plugs to jacks [17] or [18], according to your system.

- [21] Speaker out A: Speaker (left)

- [22] Speaker out A: Speaker (right)

- [23] Speaker out B: Speaker (mono)

Two-channel mode (stereo) (RCA terminal side)

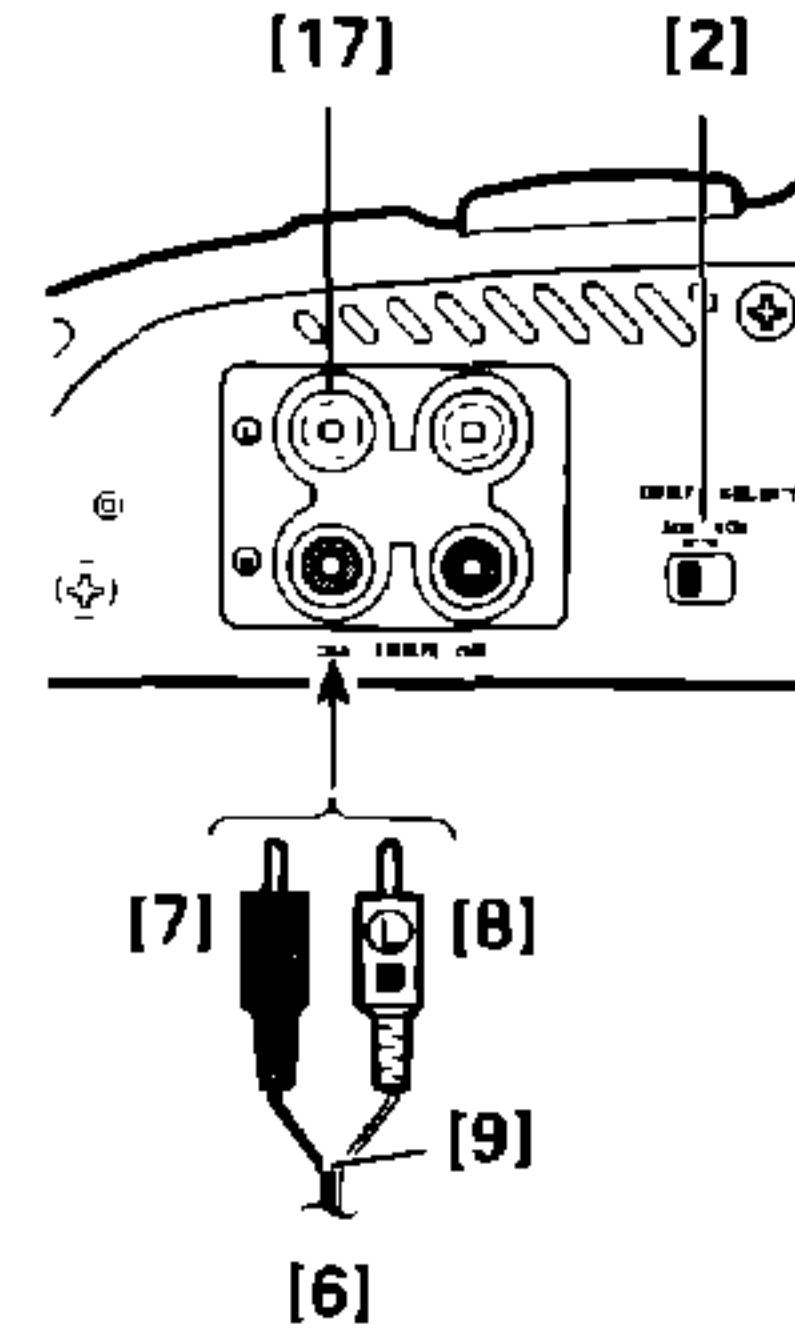


Fig. 13

(Speaker output terminal side)

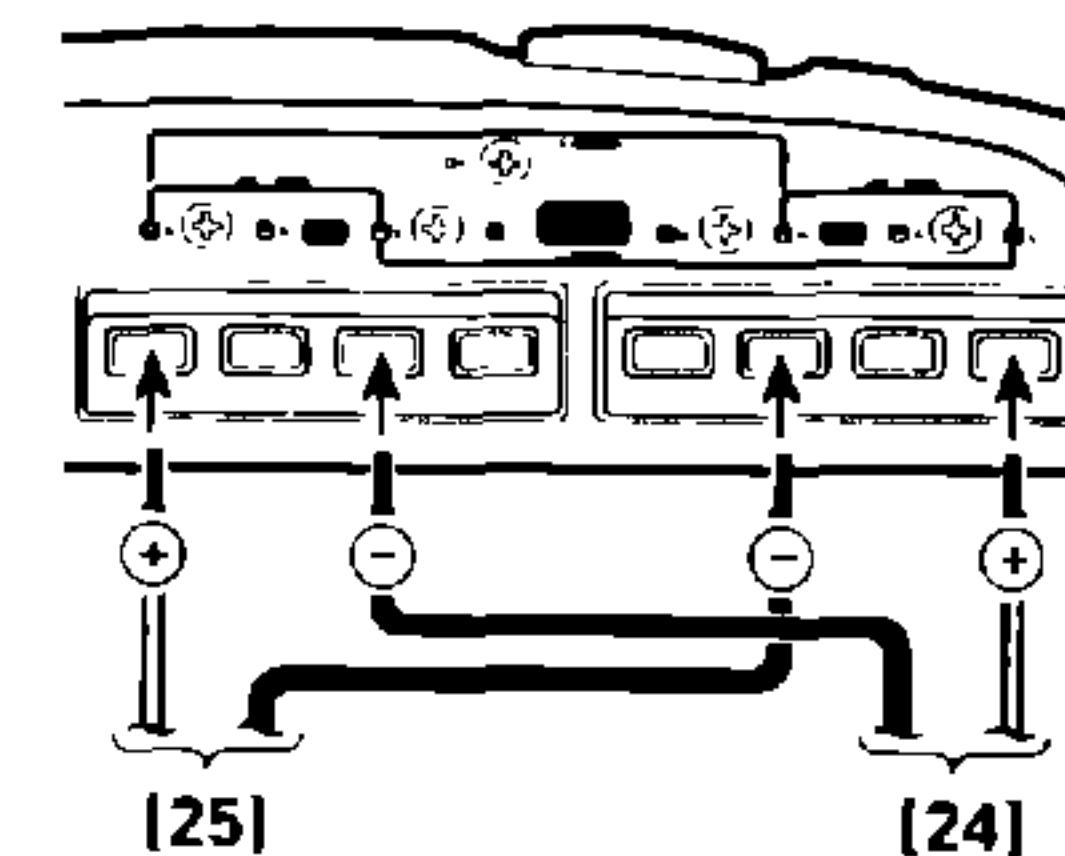


Fig. 14

- (Fig. 13, 14)**
- [2] RCA Input Select Switch
Slide this switch to the left.
 - [6] From car stereo (RCA output)
 - [7] Red
 - [8] White
 - [9] Connecting wire with RCA plug
(sold separately)
 - [17] RCA input jack A
 - [24] Speaker (left)
 - [25] Speaker (right)

Two-channel mode (mono) (RCA terminal side)

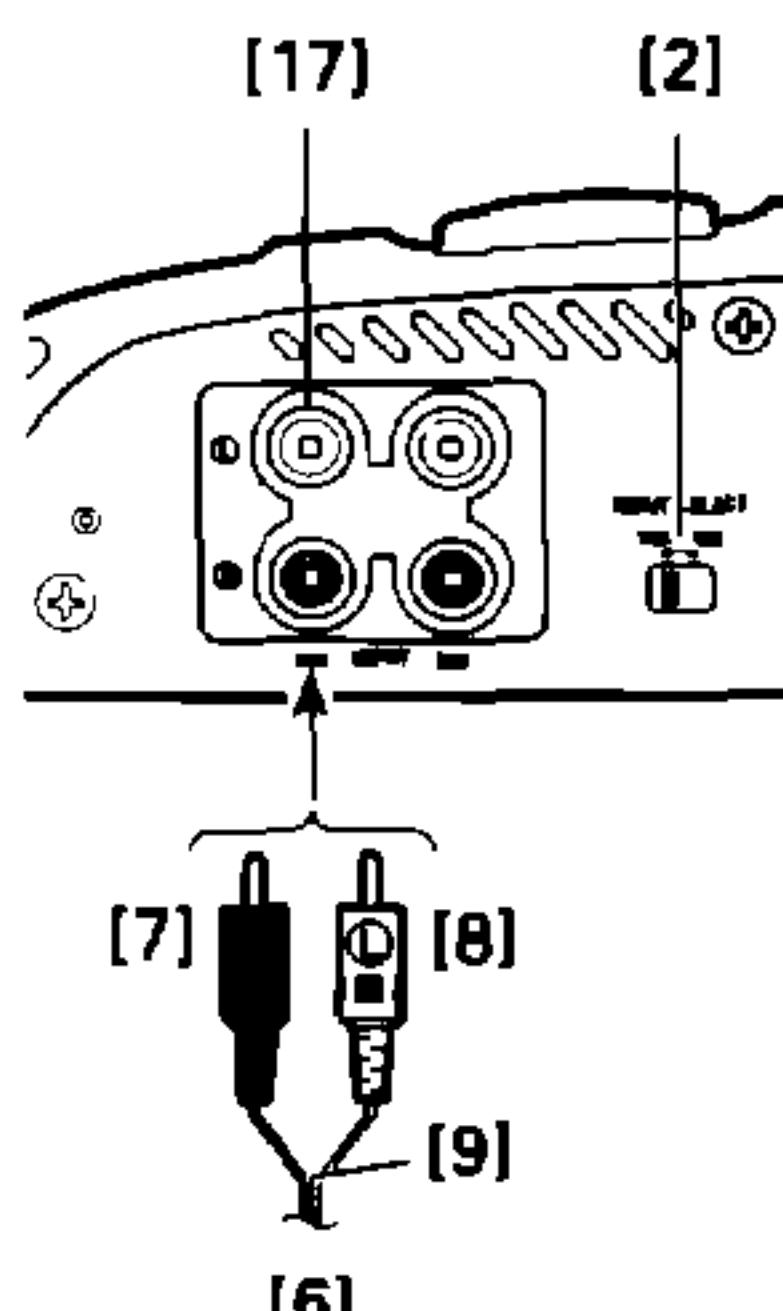


Fig. 15

- (Fig. 15, 16)**
- [2] RCA Input Select Switch
Slide this switch to the left.
 - [6] From car stereo (RCA output)
 - [7] Red
 - [8] White
 - [9] Connecting wire with RCA plug
(sold separately)
 - [17] RCA input jack A
 - [26] Speaker (mono)

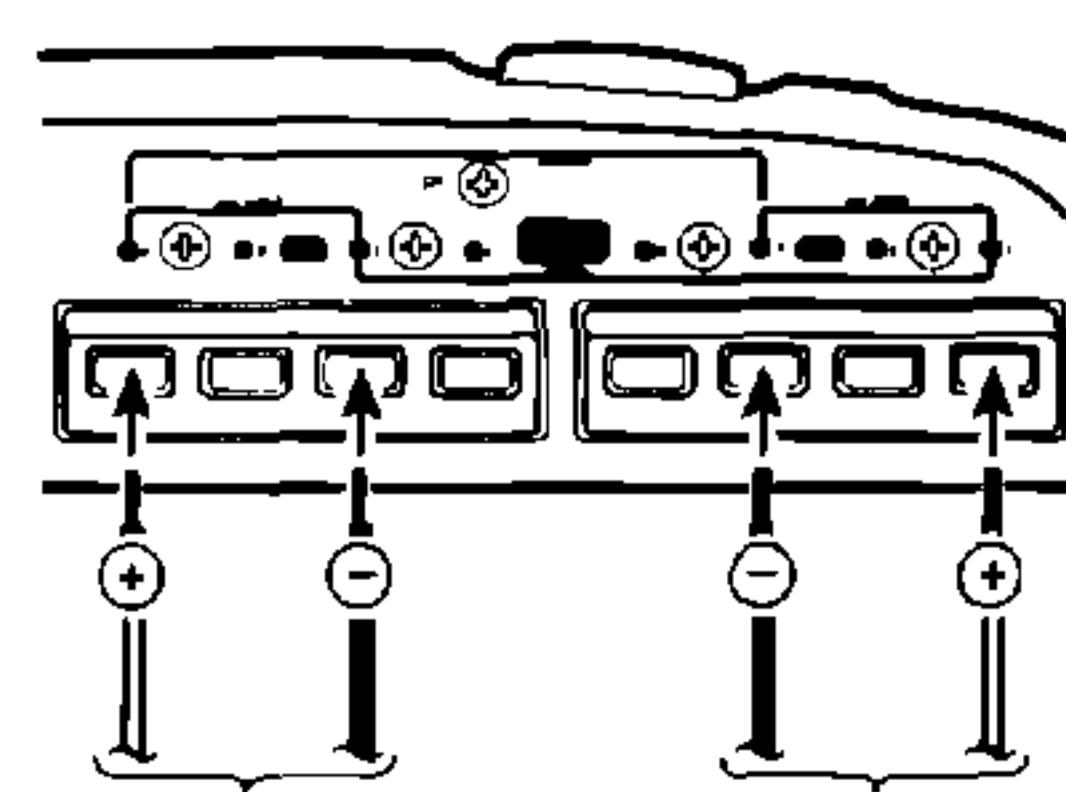


Fig. 16

Connecting the Speaker Output Terminals

1. Expose the end of the speaker wires by about 10 mm using nippers or a cutter and twist it.

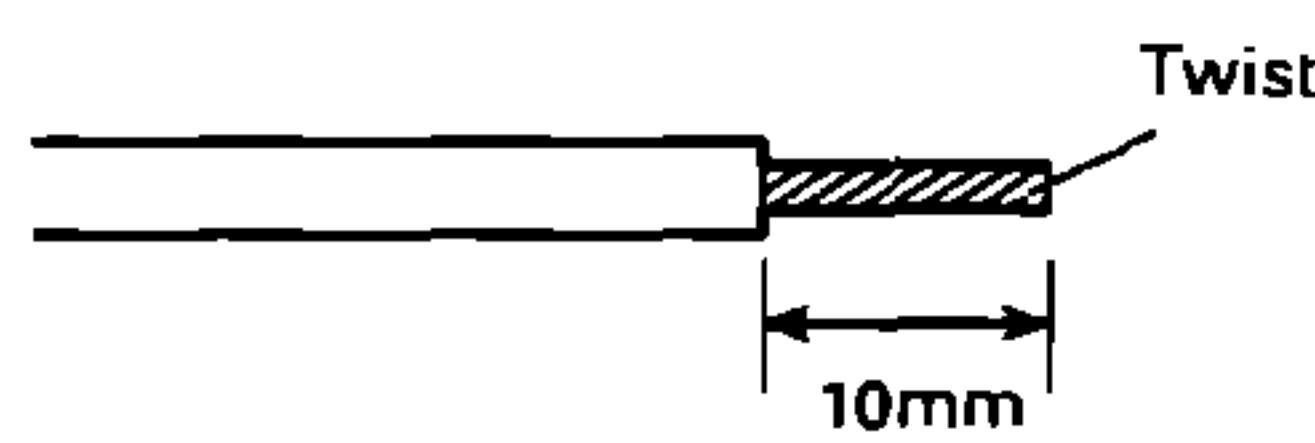


Fig. 17

2. Connect the speaker wires to the speaker output terminals.

- Fix the speaker wires securely with the terminal screws.

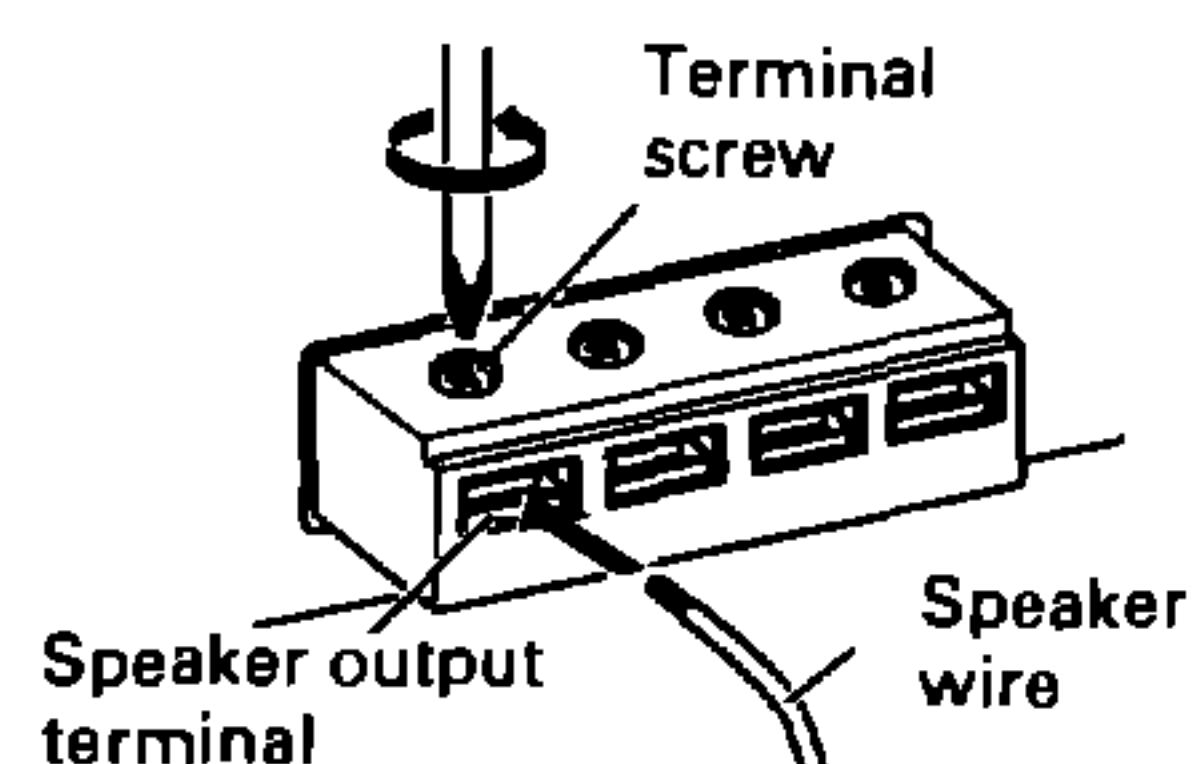


Fig. 18

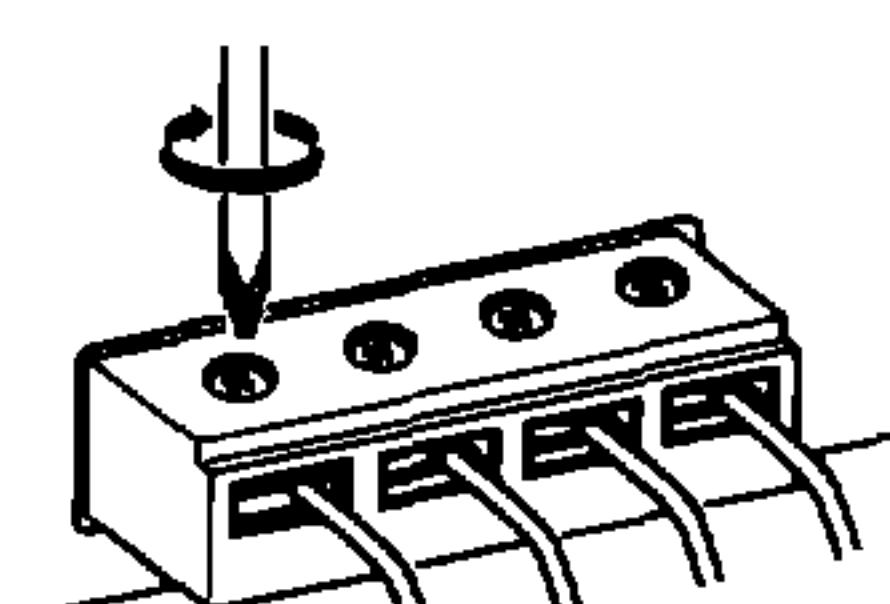


Fig. 19

4. DISASSEMBLY

● Removing the Case and Panel

1. Remove the six screws A, and then remove the case.
2. Remove the four screws B, and then remove the panel.

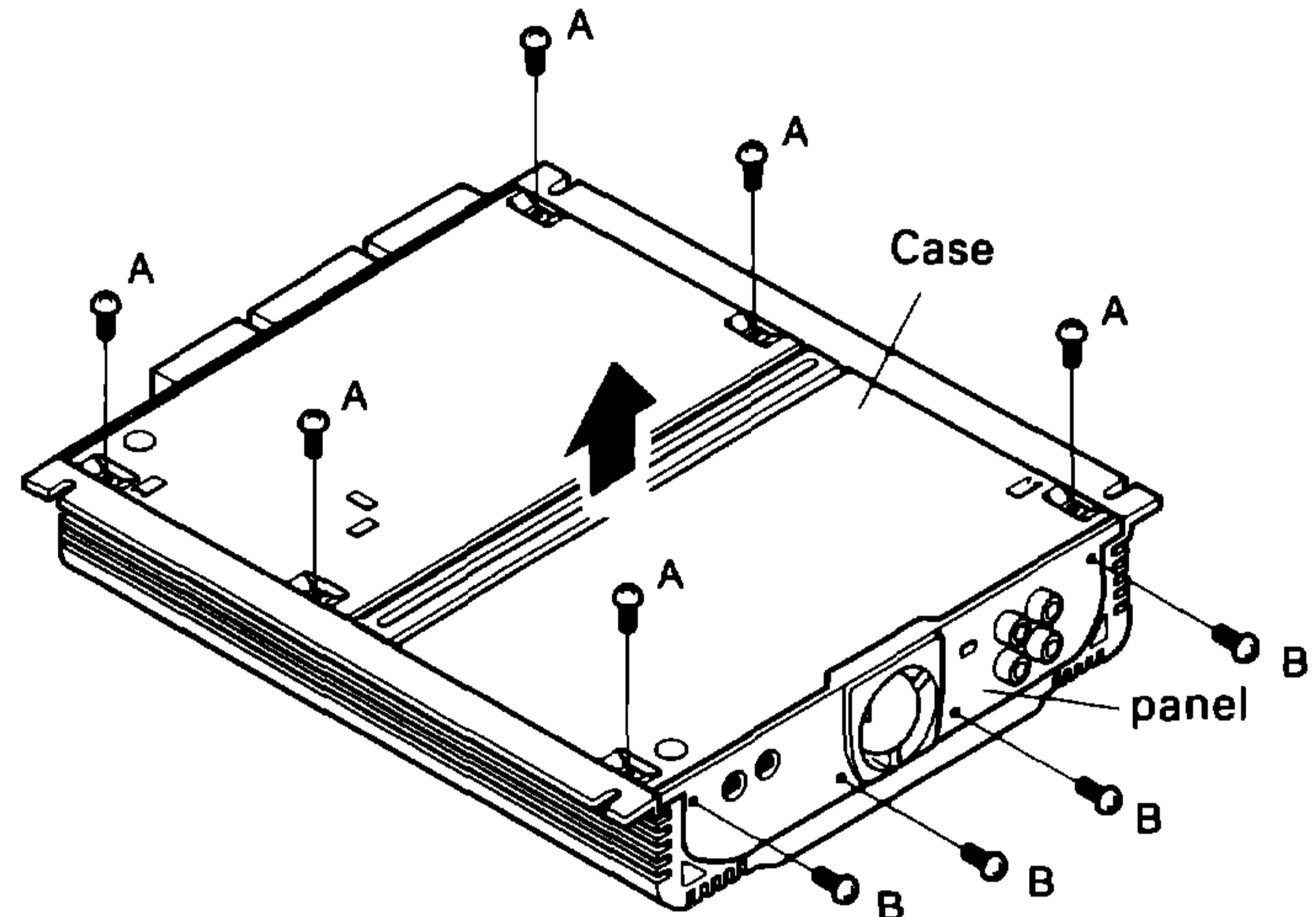


Fig. 20

● Removing the Heat Sink Assy

1. Remove the three screws C.
2. The heat sink assy is closely fit in the heat sink with silicon grease. Insert a screwdriver between the holder and the heat sink assy to remove the heat sink assy.

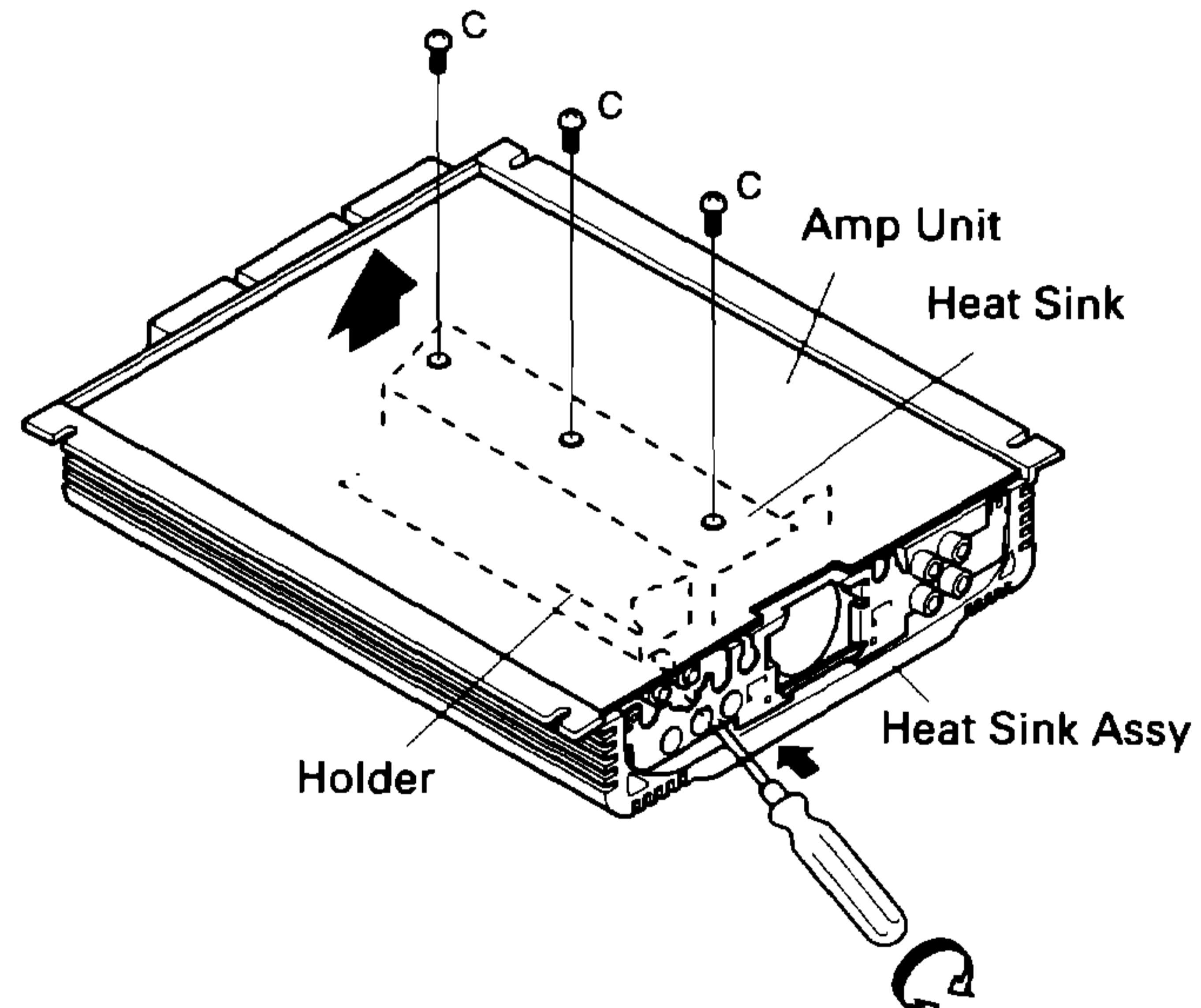


Fig. 21

● Precautions when assembling the Heat Sink Assy

Place the amp unit on the heat sink assy and tighten the three screws C. In order to prevent the screws from loosening, after about five minutes, re-tighten to make sure there is no looseness.

5. ADJUSTMENT

No	Item	Conditions	Adjustment point	Specifications
1	Idling current (adjustment)	Input ; adjust 30 seconds after 1kΩ terminate power is switched on, and within 20 seconds.	VR101, VR151 VR201, VR251	mV Meter : $22 \pm 3\text{mV}$
2	Idling current (checking)	Input ; check 30 seconds after 1kΩ terminate power is switched on.	—	mV Meter : $22 \pm 11\text{mV}$

● Connection Diagram

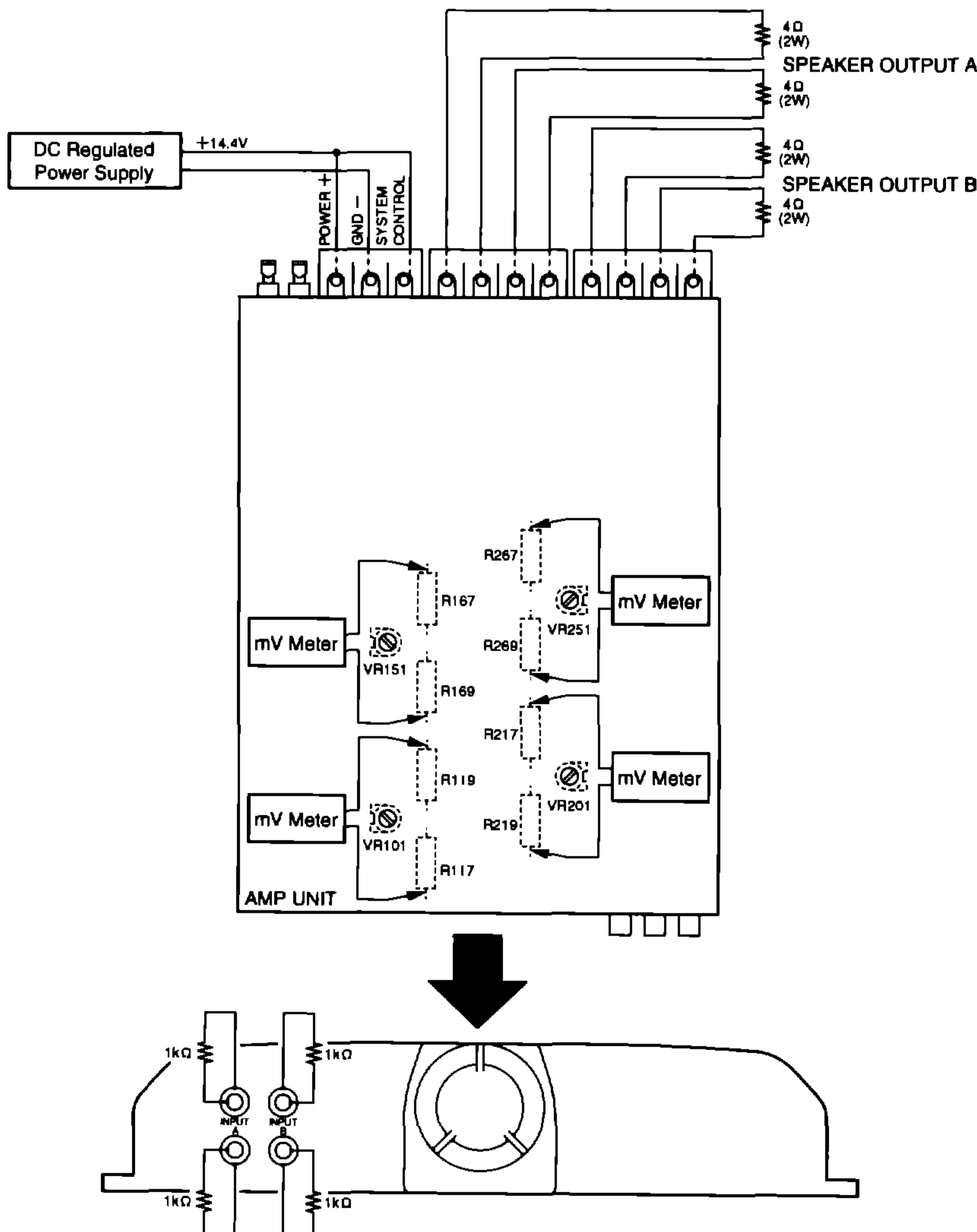
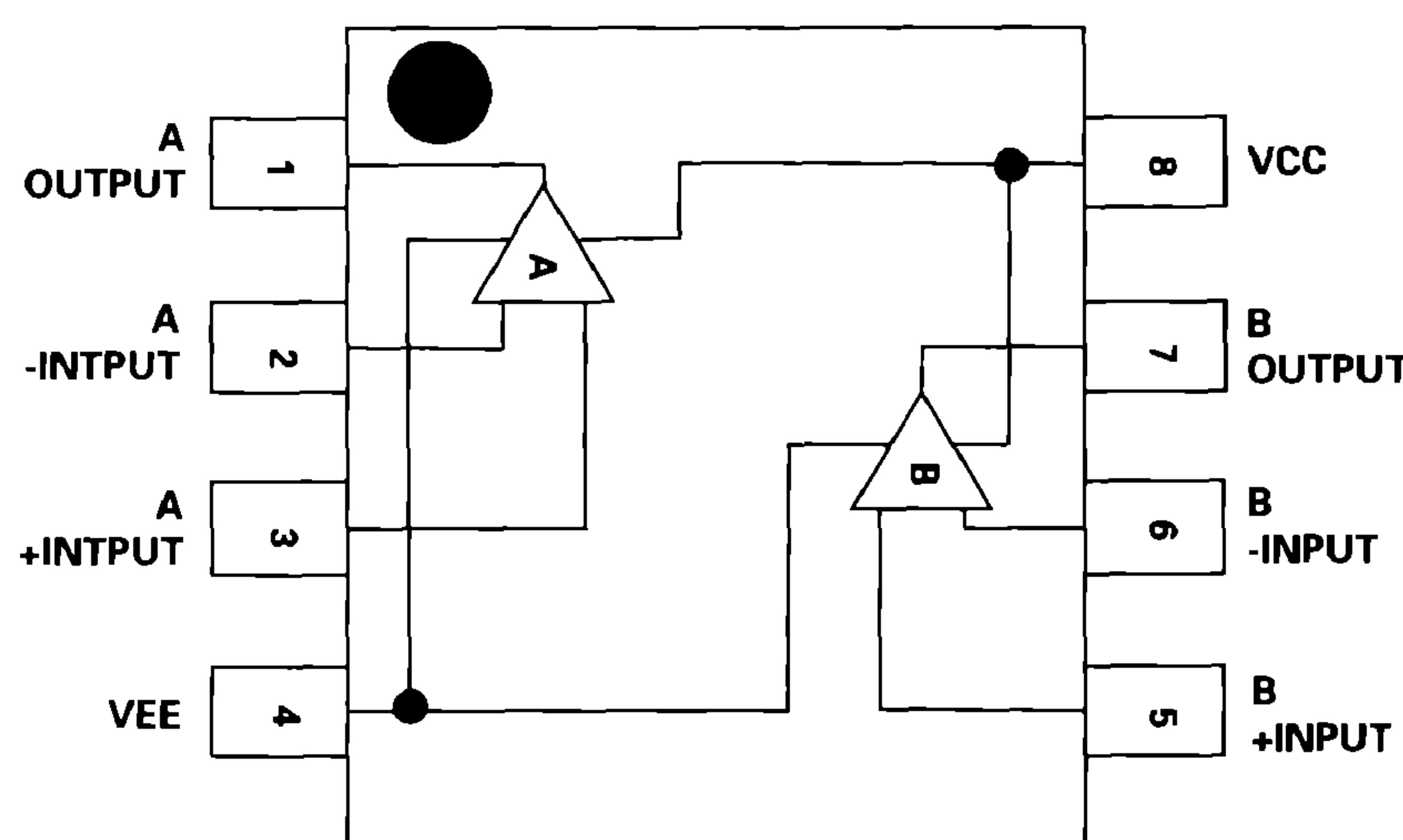


Fig. 22

6. IC INFORMATION

NJM5532D



7. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OS○○○J, RS1/OOS○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol & No. Part Name=====

Part No.

=====Circuit Symbol & No. Part Name=====

Part No.

Unit Number : HWH1217(RS-A50), HWH0001(GM-A5040))

Unit Name : Amp Unit

MISCELLANEOUS

IC 451 452 453 454

NJM5532S

IC 601 TA8194Z

NJM5532D

IC 851 852 853 854

UPC494C

IC 901

2SC1845

Q 101 102

2SA992

Q 103 104

2SC1845

Q 105 109 155 159 205 209 255 259

2SA992

Q 106 107 156 157 206 207 256 257

2SC1568

Q 108 158 208 258

2SC3421

Q 110 160 210 260

Q 111 161 211 261

Q 112 162 212 262

2SA1358

Q 113 163 213 263

2SC5101

Q 151 152

2SC1845

Q 153 154

2SA992

=====Circuit Symbol & No. Part Name=====

Part No.

=====Circuit Symbol & No. Part Name=====

Part No.

Q 201 202

2SC1845

Q 203 204

2SA992

Q 251 252

2SC1845

Q 253 254

2SA992

Q 601 606 654 901 915 916

2SC2458

Q 602 651 655 902 913 914

2SA1048

Q 603 605

2SB1243

Q 604

2SD1864

Q 653

2SC3113

Q 656 657 658 659

2SD1768S

Q 903 904

2SB1277

Q 905 906

2SD1919

Q 907 908 909 910 917 918

IRFIZ44G

Q 911

2SC3944

Q 912

2SA1535

D 101 151 201 251

H2S6LB1

D 102 103 104 105 106 107 108 152 153 154

ISS133

D 155 156 157 158 202 203 204 205 206 207

ISS133

D 208 252 253 254 255 256 257 258 603 604

ISS133

D 602

H2S7LB2

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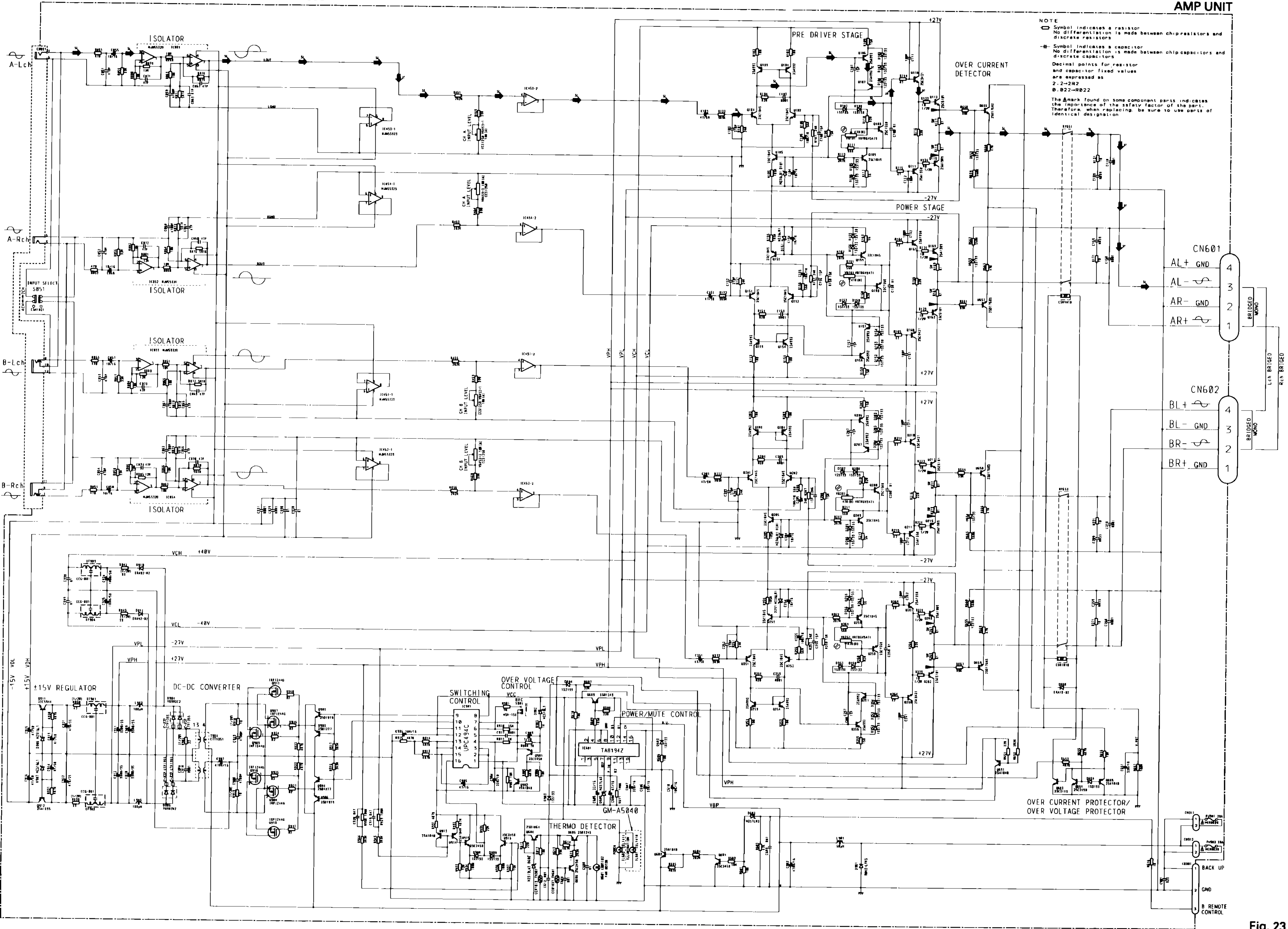
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=====Circuit Symbol & No. Part Name=====

Part No.

=====Circuit Symbol & No. Part Name=====

8. SCHEMATIC CIRCUIT DIAGRAM



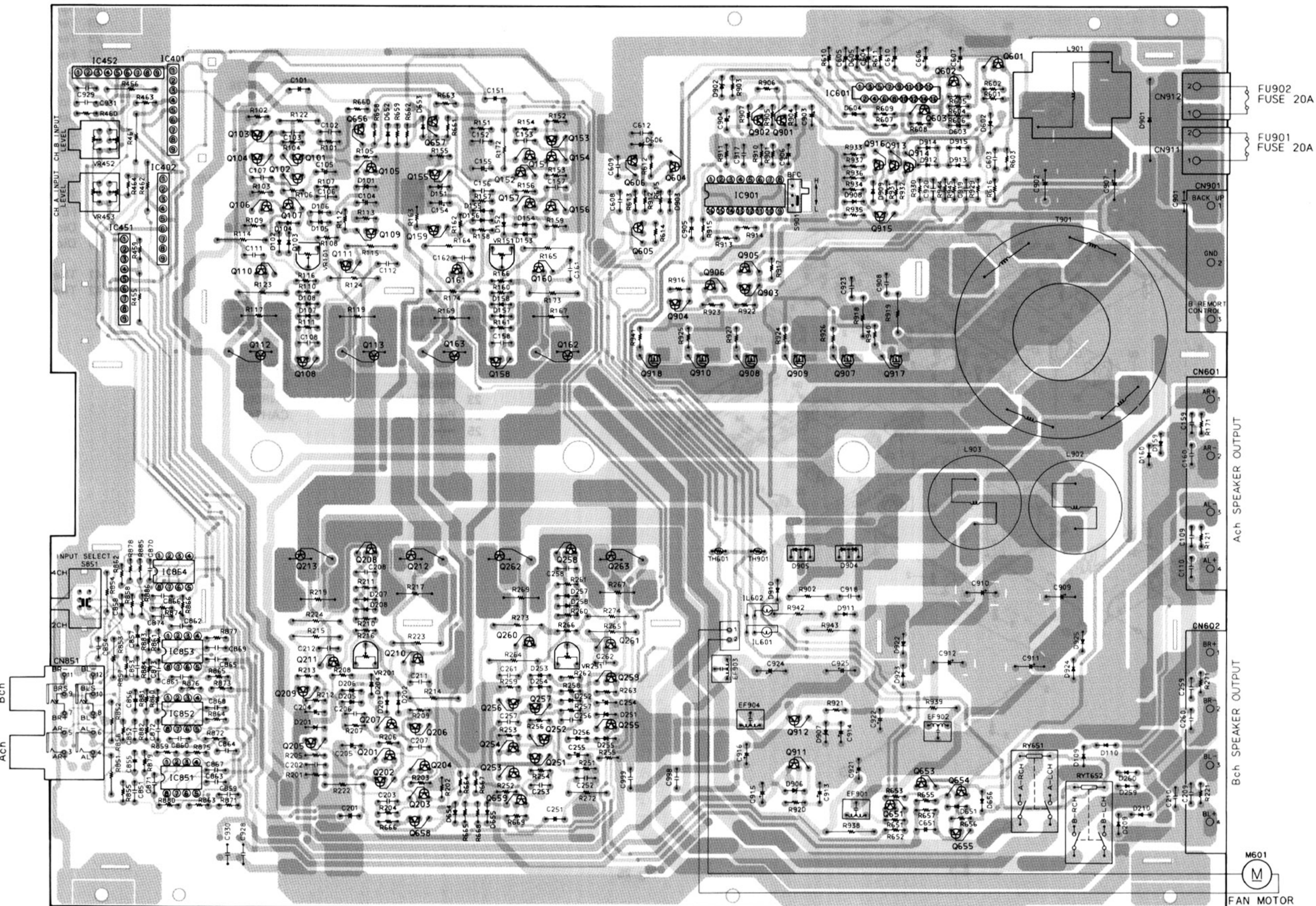
9. CONNECTION DIAGRAM

NOTE:

The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

AMP UNIT



10. EXPLODED VIEW AND PARTS LIST

● RS-A50/X1H/UC

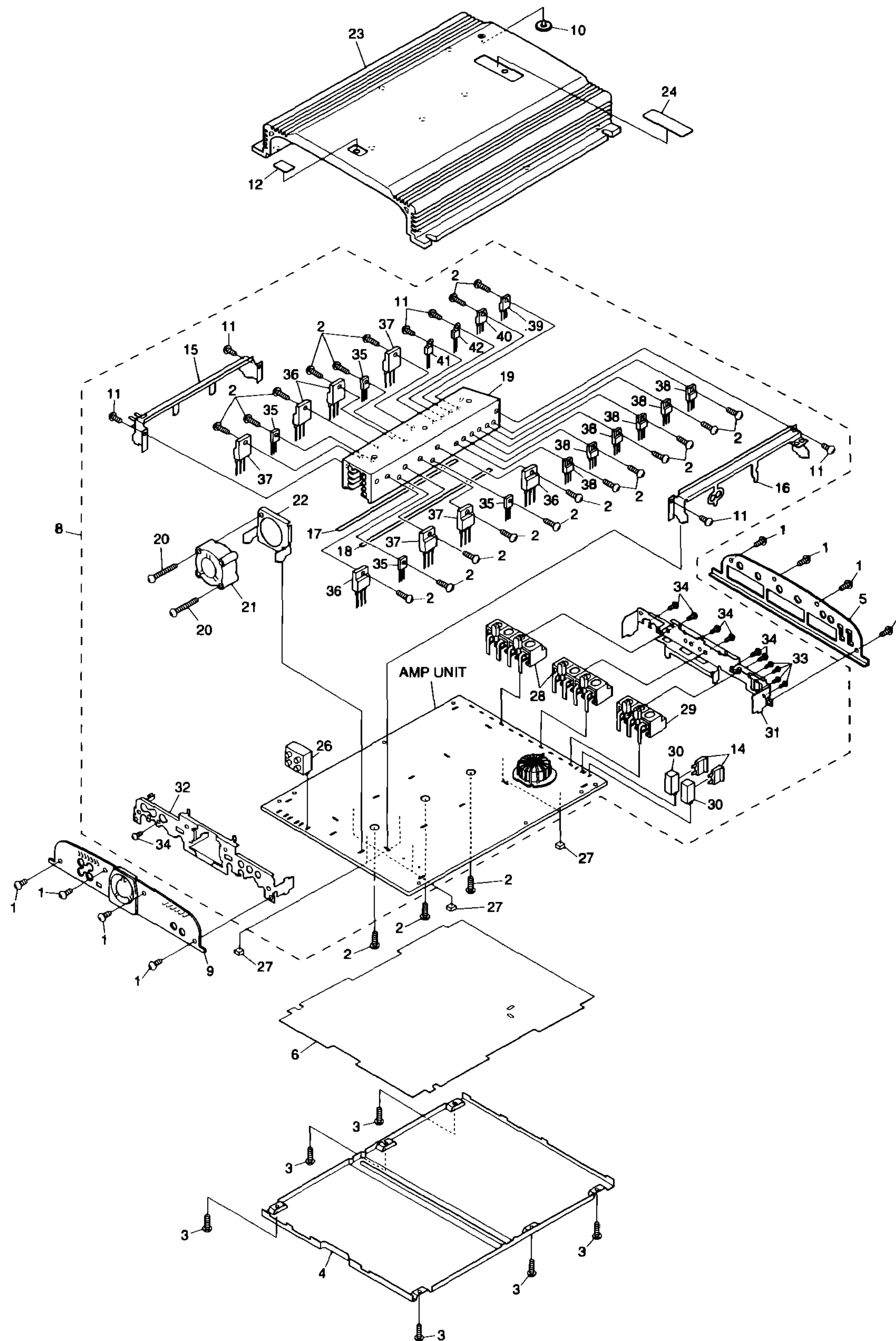


Fig. 25

● Parts List (RS-A50/X1H/UC)

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
1	Screw	BSZ30P050FZK		26	Pin Jack (CN851)	CKB1029	
2	Screw	BBZ30P100FMC		27	Spacer	HNM0006	
3	Screw	BBZ30P100FCU		28	Terminal (CN601,602)	CKE1039	
4	Case	HNB2005		29	Terminal (CN901)	CKE1041	
5	Panel	HNB2007		30	Fuse Holder (CN911,912)	CKR1011	
6	Insulator	HNM4278		31	Holder	HNC6269	
7	.....			32	Holder	HNC6268
8	Amp Unit	HWH1217		33	Screw	PPZ20P080FZK	
9	Panel Unit	HXA8461		34	Screw	PPZ30P080FZK	
10	Lens	CNS2053		35	Transistor(Q108,158,208,258)	2SC1568	
11	Screw	BBZ30P060FMC		36	Transistor(Q112,162,212,262)	2SC5101	
12	Badge	CAH1399		37	Transistor(Q113,163,213,263)	2SA1909	
13	.....			38	FET (Q907-910,917,918)	IRFIZ44G
14	Fuse (20A)	HEK0020		39	Diode (D904)	YG902C2	
15	Holder	HNC6265		40	Diode (D905)	YG902N2	
16	Holder	HNC6267		41	Thermistor (TH601)	CCX1027	
17	Insulator	HNM4284		42	Thermistor (TH901)	CCX1013	
18	Insulator	HNM4412					
19	Heat Sink	HNR1359					
20	Screw	BMZ30P230FZK					
21	Fan Motor (M601)	CXM1102					
22	Holder	HNC6266					
23	Heat Sink	HNR0021					
24	Plate Unit	CAH1427					
25	.....					

● GM-A5040/X1H/UC

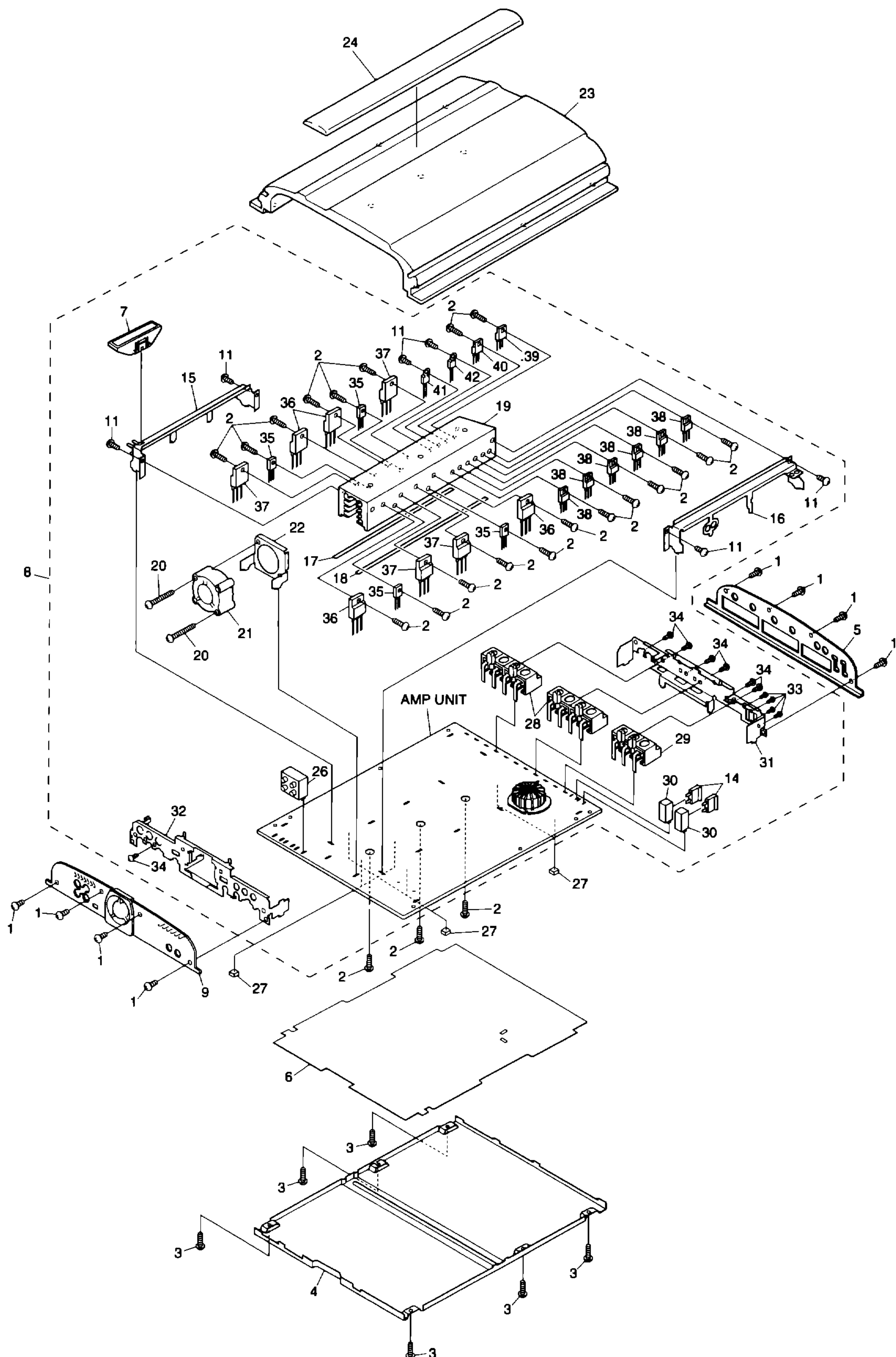


Fig. 26

● Parts List (GM-A5040/X1H/UC)

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
1	Screw		BSZ30P050FZK	26	Pin Jack		CKB1029
2	Screw		BBZ30P100FMC	27	Spacer		HNM0006
3	Screw		BBZ30P100FMC	28	Terminal		CKE1039
4	Case		HNB1920	29	Terminal		CKE1041
5	Panel		HNB1948	30	Fuse Holder		CKR1011
6	Insulator		HNM4278	31	Holder		HNC5792
7	Housing		HNV4180	32	Holder		HNC5793
8	Amp Unit		HWH0001	33	Screw		PPZ20P080FZK
9	Panel Unit		HXA0019	34	Screw		PPZ30P080FZK
10	.....			35	Transistor(Q108,158,208,258)		2SC1568
11	Screw		BBZ30P060FMC	36	Transistor(Q112,162,212,262)		2SC5101
12	.....			37	Transistor(Q113,163,213,263)		2SA1909
13	.....			38	FET(Q907-910,917,918)		IRFIZ44G
14	Fuse(20A)		HEK0020	39	Diode(D904)		YG902C2
15	Holder		HNC5786	40	Diode(D905)		YG902N2
16	Holder		HNC5853	41	Thermistor(TH601)		CCX1027
17	Insulator		HNM4284	42	Thermistor(TH901)		CCX1013
18	Insulator		HNM4412				
19	Heat Sink		HNR1359				
20	Screw		BMZ30P230FZK				
21	Fan Motor(M601)		CXM1102				
22	Holder		HNC5787				
23	Heat Sink		HNR0020				
24	Panel Unit		HXA0020				
25	.....					

11. PACKING METHOD

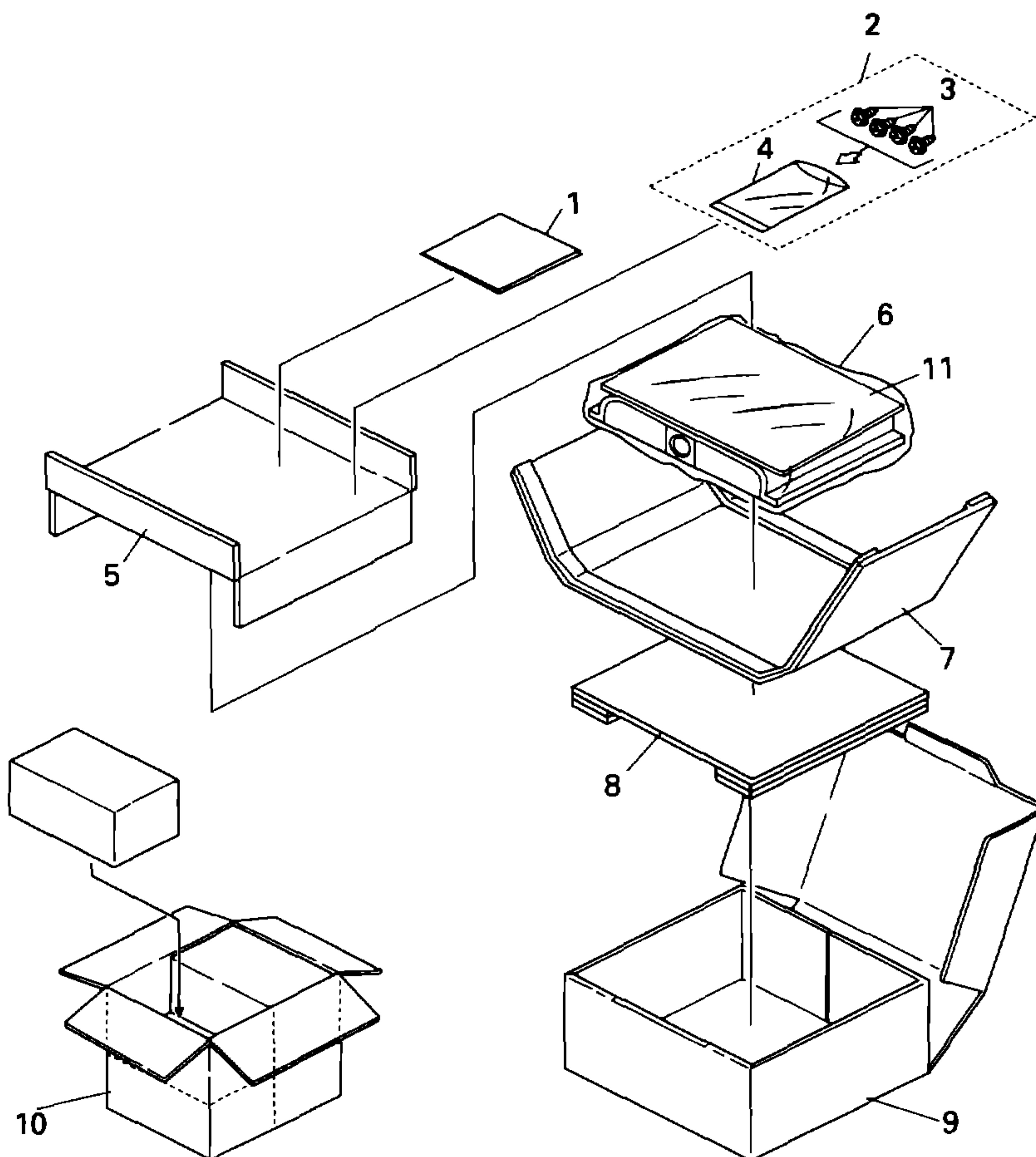


Fig. 27

● Parts List (RS-A50/X1H/UC)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1-1	Owner's Manual	HRD0027	9	Carton	HHG0068
1-2	Warranty Card	HRY1070	10	Contain Box	HHL0068
1-3	Polyethylene Bag	E36-618	11	Cushion	HNM0013
2	Screw Assy	HEA0003			
3	Screw	BYC40P180FZK			
4	Polyethylene Bag	HEG0011			
5	Top Tray	HHP0005			
6	Polyethylene Bag	HEG0012			
7	Protector	HHP1728			
8	Bottom Spacer	HHW0003			

● Owner's Manual

Part No.	Model	Language
HRD0027	RS-A50/X1H/UC	English,French
HRD0024	GM-A5040/X1H/UC	English,French

RS-A50,GM-A5040

- The GM-A5040/X1H/UC Parts List enumerate the parts which differ from those enumerated in the RS-A50/X1H/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The RS-A50/X1H/UC Parts List is given on page 19.

Mark No. Description	RS-A50/X1H/UC	GM-A5040/X1H/UC
	Part No.	Part No.
1-1 Owner's Manual	HRD0027	HRD0024
1-3 Polyethylene Bag	E36-618	.....
9 Carton	HHG0068	HHG0069
10 Contain Box	HHL0068	HHL0069
11 Cushion	HNM0013	.....