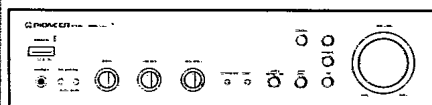


Service Manual



The illustration shows model A-203.

ORDER NO.
ARP2852

STEREO AMPLIFIER

A-203

A-103

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	A-203	A-103		
HEXJ	○	○	AC220—230V	AC240V, *
HBXJ	○	○	AC240V	AC220—230V, *
HEWZXJ	○	○	AC220—230V	AC240V, *
HLXJ	○	○	AC220—230V	AC240V, *
SDXJ	○	○	AC110V/120—127V/220V/240V	With the voltage selector
YPWXJ	—	○	AC240V	—

* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

- For the following: A-203/HBXJ, HEWZXJ, HLXJ and SDXJ; A-103/HBXJ, HEWZXJ, HLXJ, SDXJ and YPWXJ, refer to page 22.

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1. DISASSEMBLY

● CHECKING FOR POWER AMP ASSY

1. Remove the bonnet.
2. Remove the VOLUME knob and unscrew nut the ① (Fig. 1).
3. Unscrew the fastening screws ② of the front panel (2 upper and 5 lower screws.).
4. Unscrew the fastening screws ③ (1 screw) and ④ (2 screws) of the RADIATOR.
5. Lift up the RADIATOR (in the direction of the arrow ⑤) approximately 5mm, and remove it from the chassis hook.
6. Remove the lower hooks ⑥ of the front panel (2 places).
7. Slowly remove the front panel together with the RADIATOR. When doing this, be careful so that the flat cable ⑦ from CN 1 does not get caught.
8. When the VOLUME knob shaft ⑨ has been distanced from the front panel, lower the fins of the RADIATOR as shown in Fig. 2 and raise the shaft.

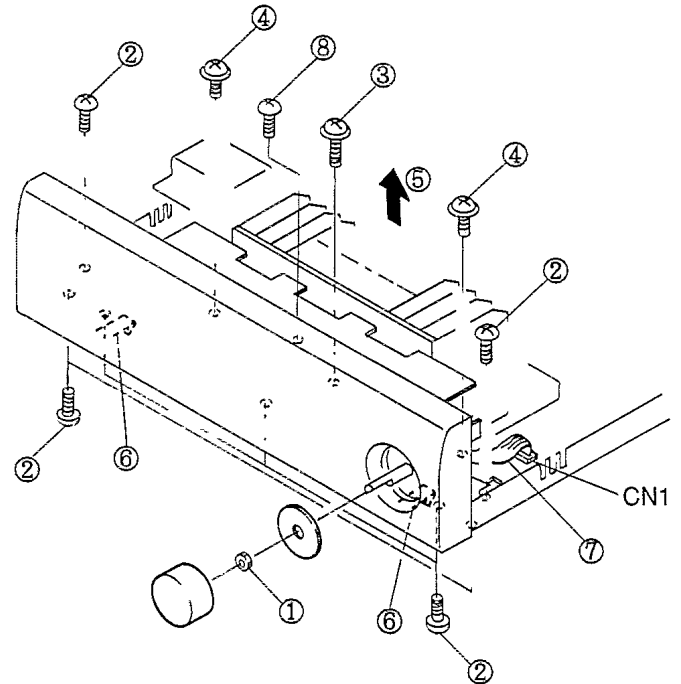


Fig. 1

● HOW TO REMOVE THE POWER AMP ASSY

1. Remove the fastening screw ③ of the RADIATOR (1 screw) and ④ (2 screws) and the center fastening screw ⑧ (1 screw) of the POWER AMP ASSY (Fig. 1).
2. Lift up the RADIATOR (in the direction of the arrow ⑤) approximately 5mm, and remove it from the chassis hook.
3. Pull the RADIATOR backward and remove the POWER AMP ASSY and RADIATOR together.

Note : The CONTROL ASSY of the front panel and the POWER AMP ASSY are connected only with connectors, and they can be easily removed by carrying out the above operations.

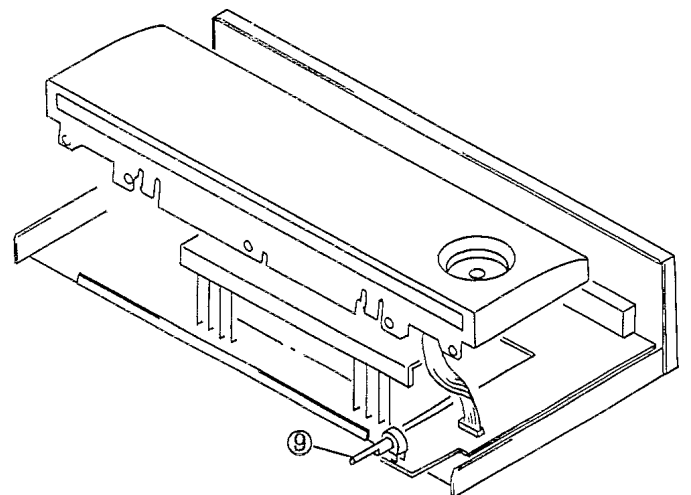


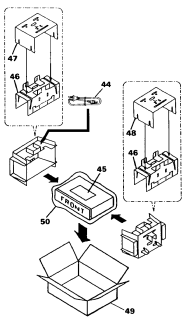
Fig.2

2. EXPLODED VIEWS, PACKING AND PARTS LIST

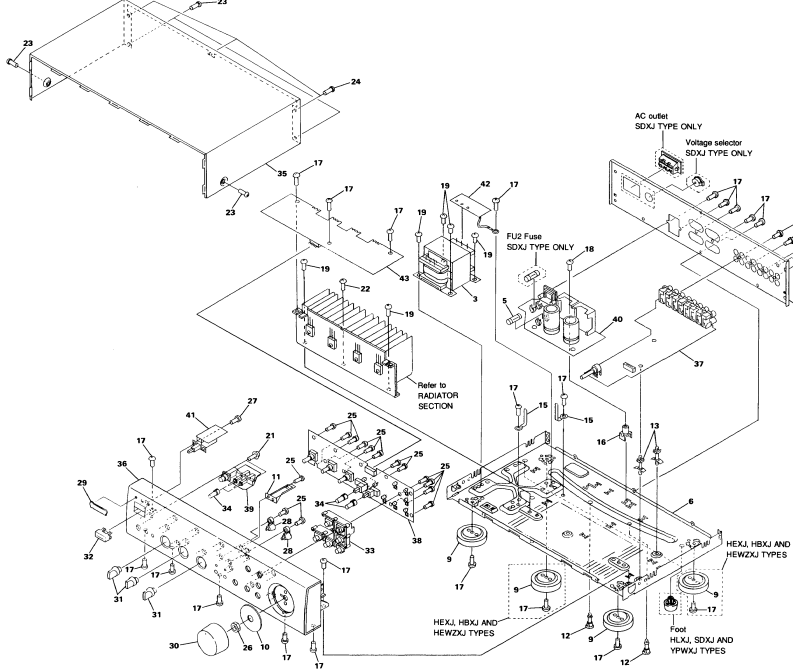
NOTES:
• Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
• The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
• Parts marked by "☞" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
Δ 1	Q1,Q4 TRANSISTOR	25A1264N	38	CONTROL ASSY	AW25493
Δ 1	Q1,Q4 TRANSISTOR	25A1803	39	HEADPHONE ASSY (For A-203)	AW25494
Δ 2	Q1,Q2 TRANSISTOR	25C1181N	39	HEADPHONE ASSY (For A-103)	AW25498
Δ 2	Q1,Q2 TRANSISTOR	25C1181N	40	SP ASSY (For A-203)	AW25495
Δ 2	Q1,Q2 TRANSISTOR	25C1181N	40	SP ASSY (For A-103)	AW25499
Δ 2	Q1,Q2 TRANSISTOR	25C1181N	41	POWER SW ASSY	AW25496
Δ 3	T1 POWER TRANSFORMER	AT3S158	42	TRANS ASSY (For A-203)	AW25497
Δ 3	T1 POWER TRANSFORMER	AT3S158	42	TRANS ASSY (For A-103)	AW25538
Δ 3	T1 POWER TRANSFORMER	AT3S158	43	POWER AMP ASSY (For A-203)	AW25500
Δ 3	T1 POWER TRANSFORMER	AT3S158	43	POWER AMP ASSY (For A-103)	AW25501
Δ 4	TERMINAL SCREW	AKE-031	44	AC POWER CORD	ADG1154
Δ 5	FU1 FUSE (1.25A)	REK1023	45	OPR. INSTRUCTIONS	ARE1302
Δ 5	FU1 FUSE (400mA)	REK1021	46	PAPER PROTECTOR A	AHA1660
NSP 6	CHASSIS(MET)	ANA1228	47	PAPER PROTECTOR B	AHA1661
NSP 7	REAR PANEL (For A-203)	ANC2173	48	PAPER PROTECTOR C	AHA1662
NSP 7	REAR PANEL (For A-103)	ANC2177	49	PACKING CASE (For A-203)	AHD2672
NSP 8	RADIATOR (For A-203)	ANH4464	49	PACKING CASE (For A-103)	AHD2673
NSP 8	RADIATOR (For A-103)	ANH4465	50	PACKING SHEET	AHG1212
9	INSULATOR	PWN1912			
10	RING(MET)	ANG1917			
11	PCB HOLDER(MET)	ANG1918			
12	PCB SPACER(PLS)	AEC1966			
13	PCB SPACER(PLS)	AEC1567			
14	SHEET (A-203 only)	ABE1014			
15	BINDER	AEP-215			
16	PCB MOLD(PP)	ABR2233			
17	SCREW	ABA-298			
18	SCREW	ABA1018			
19	SCREW	ABA1027			
20	SCREW	ABA1062			
21	SCREW (STUB)	ABA1095			
22	SCREW (STUB)	ABA1193			
23	SCREW	BBT30R06FZK			
24	SCREW	BCZ30R06FZK			
25	SCREW	BRZ20R06FMC			
26	SCREW	BN70R1C			
27	SCREW	VYZ30R10GPMC			
28	LED LENS	ANK2352			
29	NAME PLATE	PAM1608			
30	ROUND KNOB L (PLS)	AAB1340			
31	ROUND KNOB S (PLS)	AAB2221			
32	POWER BUTTON	AAD2559			
33	FUNCTION BUTTON	AAD2540			
34	PUSH BUTTON (PLS)	AAD4045			
35	BURNET CASE	AMB466			
36	FRONT PANEL (For A-203)	AMB2231			
36	FRONT PANEL (For A-103)	AMB2232			
37	FUNCTION ASSY	AW25492			

• PACKING

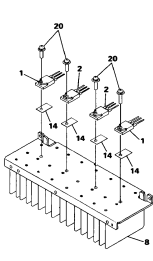


• EXPLODED VIEWS

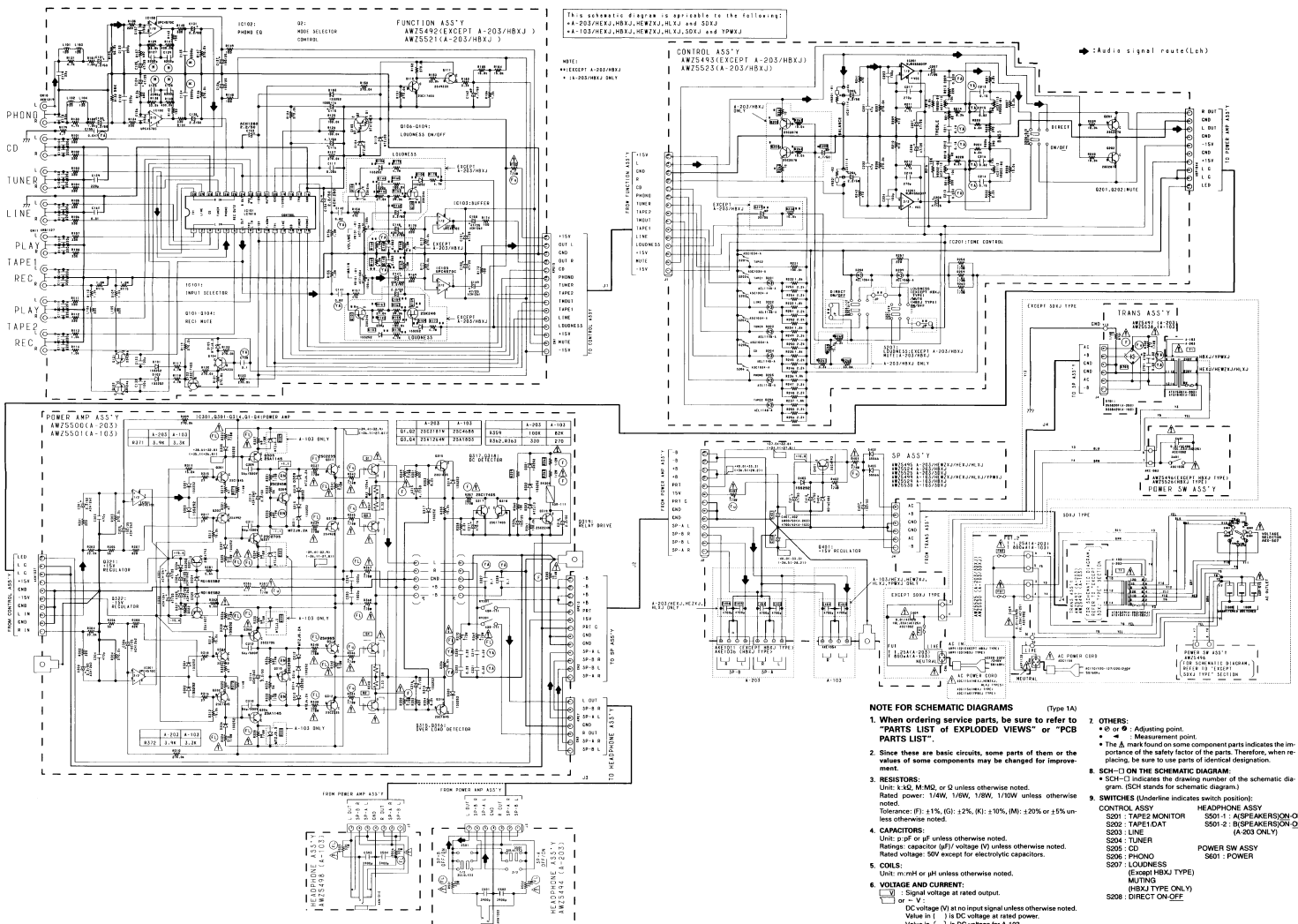


NOTE: Screws adjacent to ▼ mark on product are used for disassembly.

• RADIATOR SECTION



3. SCHEMATIC DIAGRAM



NOTE FOR SCHEMATIC DIAGRAMS

(Type 1A)

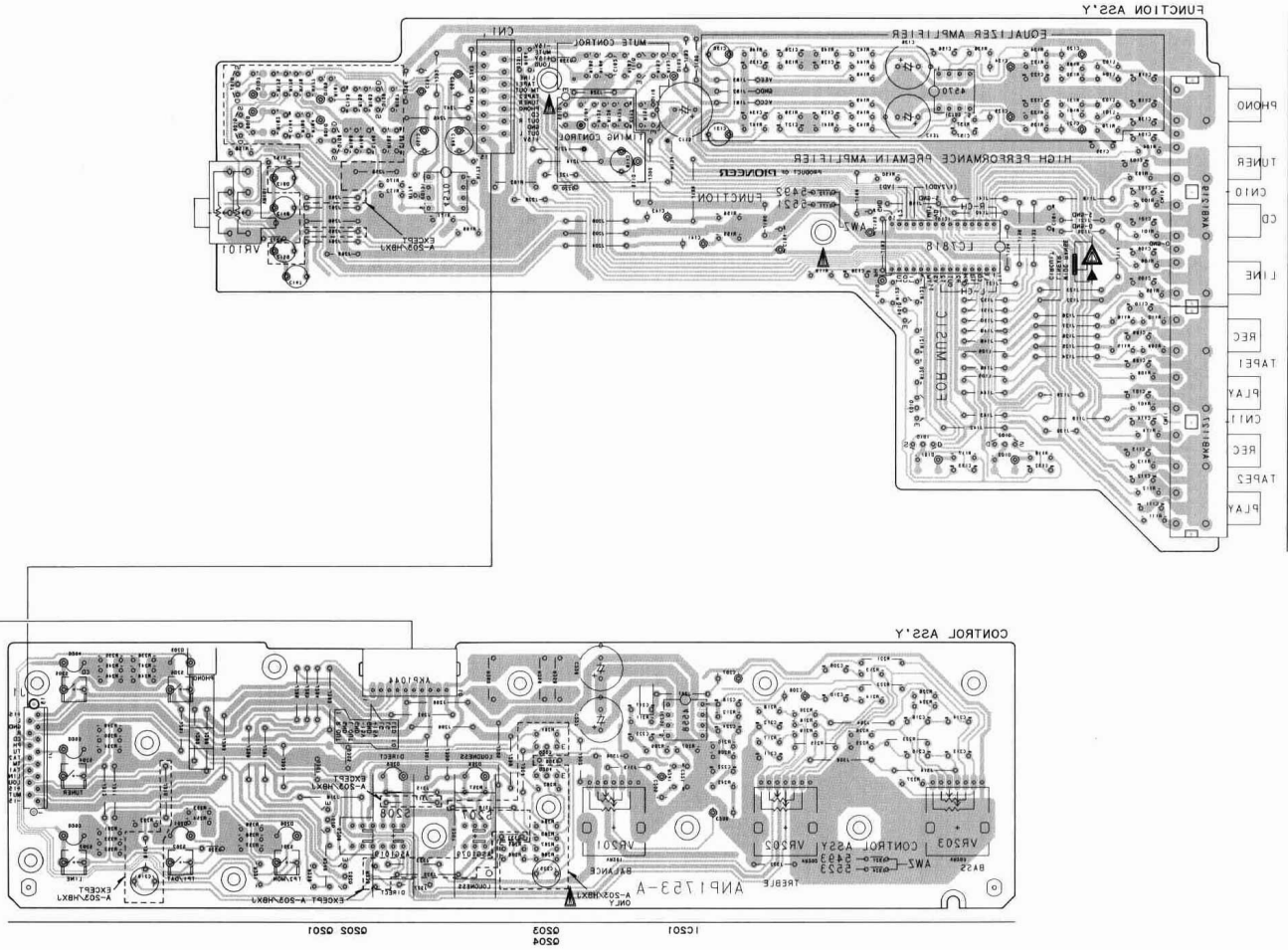
- When ordering service parts, you are sure to refer to "PARTS LIST OF EXPLODED VIEWS" or "PCB PARTS LIST".
2. Since there are basic circuits, some parts of them or the values of some components may be changed for improvement.
3. **RESISTORS:**
 • \square : 1/4W, 1/8W, 1/2W, 1W, 10W, 15W or 5% unless otherwise noted.
 Rated power: 1/4W, 1/8W, 1/2W, 1W, 10W, 15W unless otherwise noted.
 Tolerance: (F): $\pm 1\%$; (G): $\pm 2\%$; (J): $\pm 5\%$; (K): $\pm 10\%$; or $\pm 15\%$ unless otherwise noted.
4. **CAPACITORS:**
 • \square : μ F or μ F unless otherwise noted.
 Ratings: capacitor (gV) (volts) unless otherwise noted.
 Rated voltage: 50V except for electrolytic capacitors.
5. **COLS:**
 Unit: m.mh or μ h unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
 • \square : Signal voltage at rated output.

$$V_r = V - V_{DC}$$
 DC voltage (V) at no input signal unless otherwise noted.
 Value in () is DC voltage at rated power.
 Value in () is DC voltage for A-103.
 • mA : — or — mA
 DC current at no input signal unless otherwise noted.
7. **OTHERS:**
 • \square or \square : Adjusting point.
 • \square : Measurement point.
 • The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use of identical designation.
8. **SCH—(1) ON THE SCHEMATIC DIAGRAM:**
 • SCH—(1) indicates the drawing number of the schematic diagram.
 (SCH stands for schematic diagram.)
9. **SWITCHES** (Underline indicates switch position):
 CONTROL ASSY HEADPHONE ASSY
 S201 : TAPE2 MONITOR S501 : \square : ASPLAKE/SDOWN OFF
 S202 : TAPE1 AUTO S502 : \square : BREAKERS/ON OFF
 S203 : LINE S503 : \square : (A-203) A-203
 S204 : TUNER
 S205 : CD POWER SW ASSY
 S206 : PHONO S601 : POWER
 S207 : LOUDNESS
 (Except HXBJ TYPE)
 MUTING
 (HBXJ TYPE ONLY)
 S208 : DIRECT ON OFF

4. PCB CONNECTION DIAGRAMS

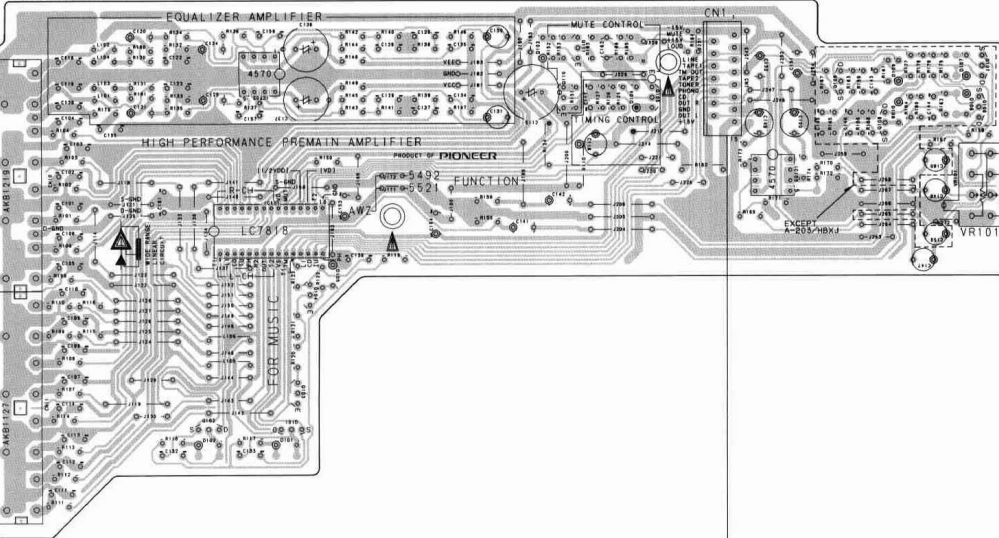
● This diagram is viewed from the foil side.

PCB-1









- This diagram is viewed from the mounted parts side.




PCB-1

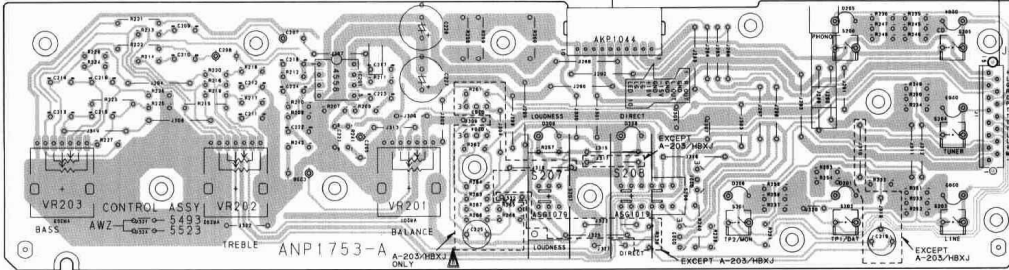


NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

3. The transistor terminal marked with E or  shows the emitter.
4. The diode terminal marked with or  shows cathode side.
5. The capacitor terminal marked with or  shows negative terminal.



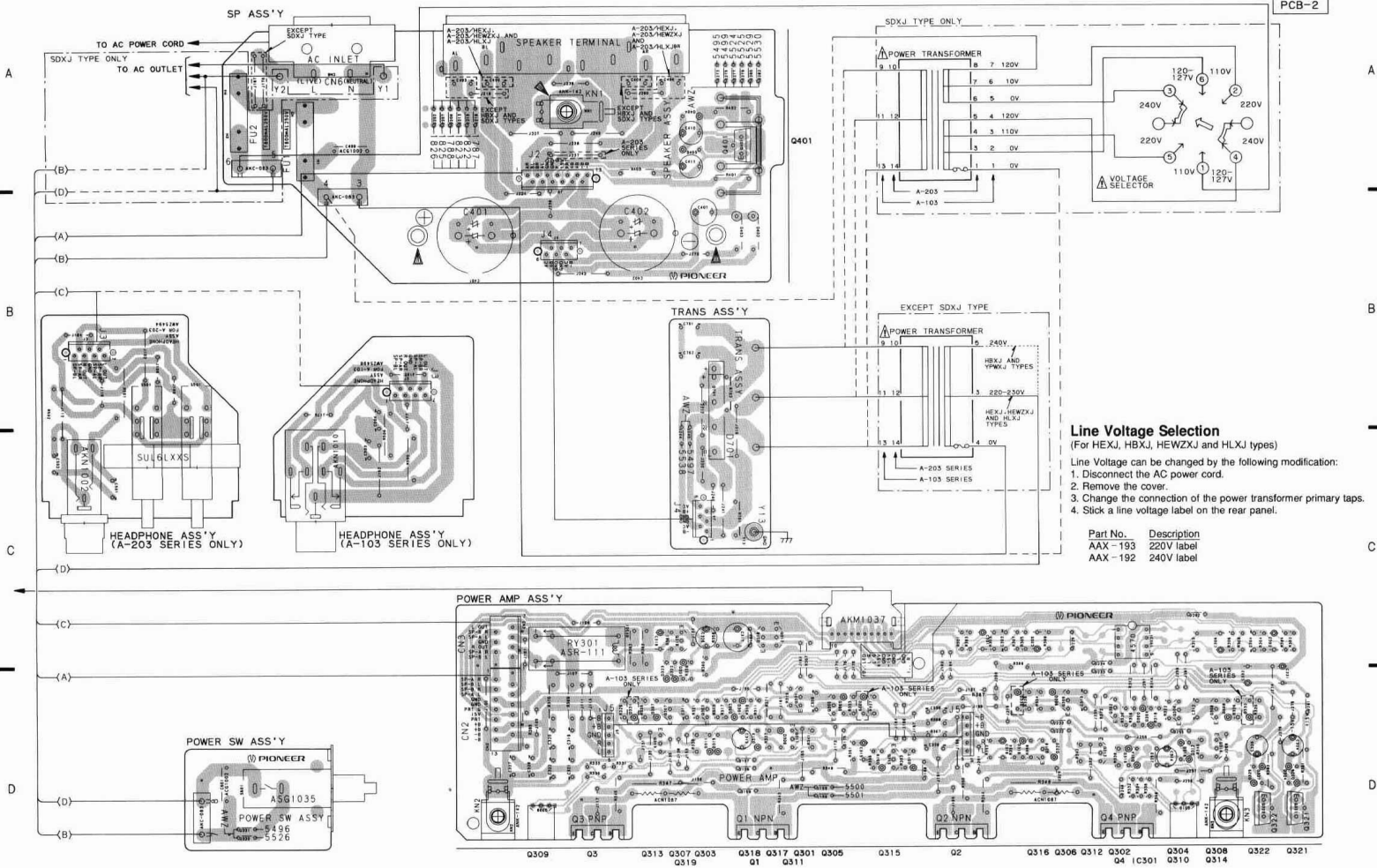
1C201

Q203
Q204

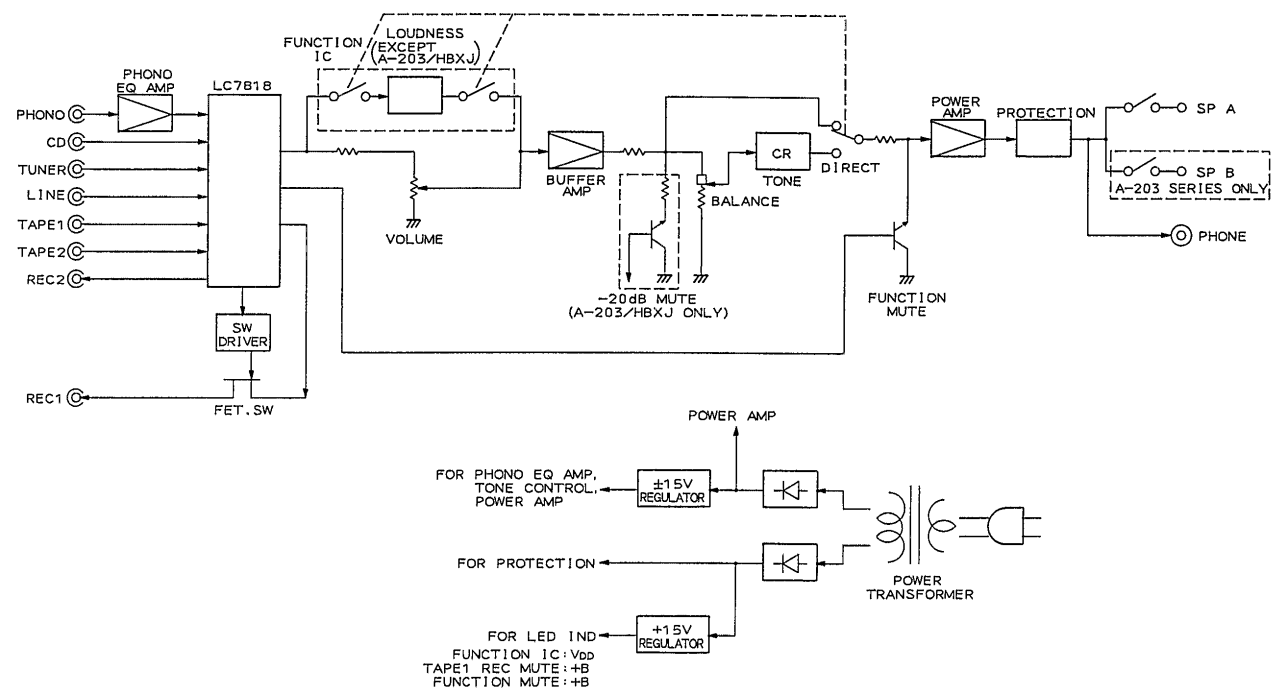
Q202 Q201

● This diagram is viewed from the mounted parts side.

PCB-2



5. BLOCK DIAGRAM



6. PCB PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω \rightarrow 56 $\times 10^1$ \rightarrow 561 RD1/8PM $\boxed{561}J$
 47k Ω \rightarrow 47 $\times 10^3$ \rightarrow 473 RD1/4PS $\boxed{473}J$
 0.5 Ω \rightarrow 0R5 RN2H $\boxed{0R5}K$
 1 Ω \rightarrow 010 RS1P $\boxed{010}K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω \rightarrow 562 $\times 10^1$ \rightarrow 5621 RN1/4PC $\boxed{5621}F$

Mark	No.	Description	Parts No.	Mark	Mark	No.	Description	Parts No.	Mark
------	-----	-------------	-----------	------	------	-----	-------------	-----------	------

LIST OF ASSEMBLIES

NSP	AF	ASSY (For A-203)	AWK1787
		FUNCTION ASSY	AWZ5492
		CONTROL ASSY	AWZ5493
		HEADPHONE ASSY	AWZ5494
		SP ASSY	AWZ5495
		POWER SW ASSY	AWZ5496
NSP	AF	TRANS ASSY	AWZ5497
		POWER AMP ASSY	AWZ5500
		ASSY (For A-103)	AWK1788
		FUNCTION ASSY	AWZ5492
		CONTROL ASSY	AWZ5493
		POWER SW ASSY	AWZ5496
		HEADPHONE ASSY	AWZ5498
		SP ASSY	AWZ5499
		POWER AMP ASSY	AWZ5501
		TRANS ASSY	AWZ5538

C136,C137	CEAS101M25
C115	CEAS102M16
C120,C121,C130,C131	CEAS2R2M50
C159,C160	CEAS2R2M50
C124,C125,C151,C152	CEAS470M25
C116	CEAS4R7M50
C138	CFTYA104J50
C155	CFTYA473J50
C117	CFTYA563J50
C145,C146	CFTYA823J50
C141,C142	CFTYA824J50
C161	CKCYF103Z50
C126,C127,C134,C135	CQMA222J50
C128,C129	CQMA822J50

RESISTORS

Δ R182		RFA1/4PS4R7J
VR101	(100k - A5 \times 2)	ACT1084
Other Resistors		RD1/8PM $\square\square\square J$

OTHERS

CN11	(PIN JACK-8P)	AKB1127
CN10	(PIN JACK-8P)	AKB1219
CN1	CONNECTOR(15P)	KPE15

CONTROL ASSY

SEMICONDUCTORS

IC201	NJM4558DXP
Q201,Q202	2SC2878
D209	(Red) AEL1065
D208	(Orange) AEL1084
D201 - D206	(Red) AEL1148

SWITCHES AND RELAYS

S208	ASG1019
S201 - S206	ASG1034
S207	ASG1079

CAPACITORS

C223,C224	CCCSL151J50
C217,C218	CCCSL271J50
C221,C222	CCCSL470J50
C219	CEANP220M35
C205,C206	CEAS2R2M50

FUNCTION ASSY

SEMICONDUCTORS

IC101	LC7818
IC102,IC103	UPC4570C
Q104,Q111	2SA933S
Q103,Q110	2SC1740S
Q101,Q102,Q106-Q109	2SK246
Q105	DTA124ES
D101-D103,D106-D109	1SS252
D110	MTZJ20
D104,D105	MTZJ8.2

COILS AND FILTERS

L101-L104	LAU121K
L105,L106	LAU221K

CAPACITORS

C147,C148,C153,C154 (2.2/50)	ACH1260
C149,C150 (47/25)	ACH1261
C132,C133	CCCSL101J50
C156,C157	CCCSL151J50
C101-C114,C122,C123,C139	CCCSL221J50
C143,C144	CCCSL221J50
C118,C119	CCCSL330J50
C162	CEANP4R7M50

19

Mark	No.	Description	Parts No.	Mark
△	R323—R326		RD1/8MMF511J	
△	R327—R330		RD1/8MMF680J	
	R371,R372 (For A—203)		RDR1/4PM392J	
	R371,R372 (For A—103)		RDR1/4PM332J	
△	R343—R346		RFA1/4PS4R7J	
	R331,R332		RN1/4PC1501F	
	R335,R336		RN1/4PC6800F	
	Other Resistors		RD1/8PM□□□J	
OTHERS				
	PLUG	(10P)	AKM1037	
	CN2	CONNECTOR(13P)	KPE13	
	CN3	CONNECTOR(7P)	KPE7	

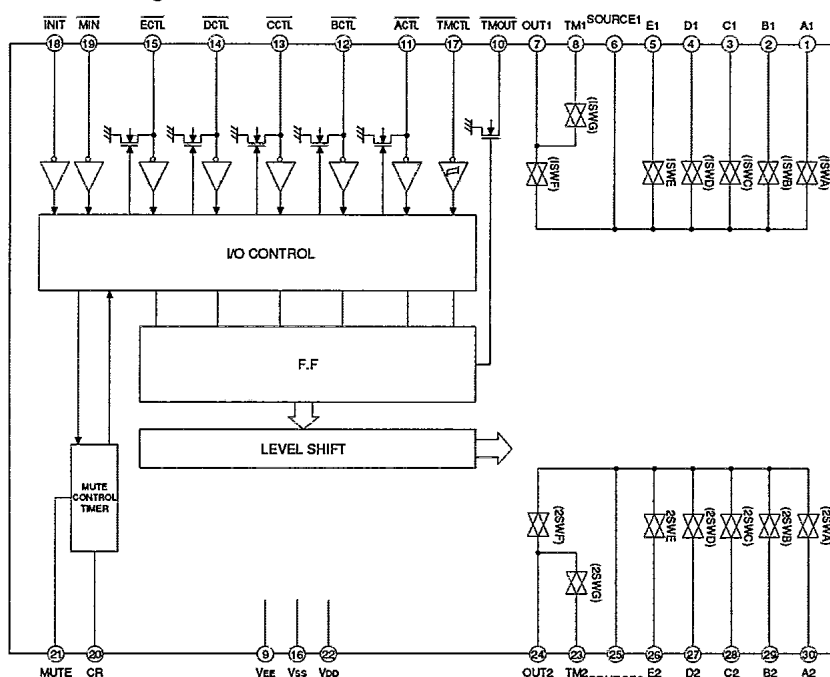
7. IC INFORMATION

● The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ LC7818 (IC101)

Input Selector IC

● Block diagram



● Pin Function

No.	Name	Function
1	A1	Audio signal input
2	B1	
3	C1	
4	D1	
5	E1	
6	SOURCE1	Recording output
7	OUT1	Audio signal output
8	TM1	Audio signal input
9	VEE	1. When power supply (+) is used: VSS=VEE=GND 2. When power supply (+-) is used: VSS=GND, VEE=(-)V
10	TMOUT	TM ON/OFF display LED driver output
11	ACTL	Input/output pin for analog switch control and display LED driver output
12	BC1L	
13	CC1L	
14	DC1L	
15	EC1L	
16	VSS	1. When power supply (+) is used: VSS=VEE=GND 2. When power supply (+-) is used: VSS=GND, VEE=(-)V

No.	Name	Function																					
17	TMCTL	TM control input																					
18	INIT	Mode setting input Operations According to the Combination of INIT and MIN Inputs																					
19	MIN																						
		<table border="1"> <thead> <tr> <th>INIT</th><th>MIN</th><th>Operations</th></tr> </thead> <tbody> <tr> <td>H</td><td>M</td><td>Localization</td></tr> <tr> <td>H</td><td>L</td><td>Backup</td></tr> <tr> <td>H</td><td>H</td><td>Auto function</td></tr> <tr> <td>L</td><td>M</td><td>Mute</td></tr> <tr> <td>L</td><td>L</td><td>Initialize (Circuit A)</td></tr> <tr> <td>L</td><td>H</td><td>Reset</td></tr> </tbody> </table>	INIT	MIN	Operations	H	M	Localization	H	L	Backup	H	H	Auto function	L	M	Mute	L	L	Initialize (Circuit A)	L	H	Reset
INIT	MIN	Operations																					
H	M	Localization																					
H	L	Backup																					
H	H	Auto function																					
L	M	Mute																					
L	L	Initialize (Circuit A)																					
L	H	Reset																					
20	CR	Clock oscillation input/output Connected to C1 and R1																					
21	MUTE	Mute control output																					
22	VDD	Power supply																					
23	TM2	Audio signal input																					
24	OUT2	Audio signal output																					
25	SOURCE2	Recording output																					
26	E2	Audio signal input																					
27	D2																						
28	C2																						
29	B2																						
30	A2																						

8. FOR A-203/HBXJ, HEWZXJ, HLXJ, SDXJ, A-103/HBXJ, HEWZXJ, HLXJ, SDXJ AND YPWXJ

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

8.1 CONTRAST OF MISCELLANEOUS PARTS FOR A-203/HBXJ, HEWZXJ, HLXJ AND SDXJ.

A-203/HBXJ, HEWZXJ, HLXJ, SDXJ and A-203/HEXJ have the same construction except for the following:

Mark	Symbol & Description	Part No.					Remarks
		A-203 HEXJ	A-203 HBXJ	A-203 HEWZXJ	A-203 HLXJ	A-203 SDXJ	
NSP	AF assembly	AWK1787	AWK1822	AWK1787	AWK1787	AWK1823	
	FUNCTION assembly	AWZ5492	AWZ5521	AWZ5492	AWZ5492	AWZ5492	
	CONTROL assembly	AWZ5493	AWZ5523	AWZ5493	AWZ5493	AWZ5493	
	SP assembly	AWZ5495	AWZ5524	AWZ5495	AWZ5495	AWZ5525	
	POWER SW assembly	AWZ5496	AWZ5526	AWZ5496	AWZ5496	AWZ5496	
Δ	T1 Power transformer (AC220—230V/240V)	ATSI538	ATSI538	ATSI538	ATSI538	.....
Δ	T1 Power transformer (AC110V/120—127V/220V/240V)	.....	.....	.....	.....	ATSI539	
Δ	Voltage selector (AC110V/120—127V/220V/240V)	.....	.....	.....	.....	AKX—507	Refer to page5.
Δ	AC outlet	.....	.....	.....	.....	AKP—515	Refer to page5.
Δ	FU2 Fuse (1.25A)	.....	.....	.....	.....	REK1023	Refer to page5.
Δ	AC power cord	ADG1154	ADG1156	ADG1154	ADG1154	ADG1158	
	Rear panel	ANC2173	ANC2174	ANC2172	ANC2201	ANC2175	
	Insulator (for front/rear)	PNW1912	PNW1912	PNW1912	.....	.....
	Insulator (for front)	.....	.....	.....	DXA1490	DXA1490	
	Foot (for rear)	.....	.....	.....	AEC1505	AEC1505	
	Front panel	AMB2231	AMB2233	AMB2231	AMB2231	AMB2231	
	Operating instructions (English/French/German/Italian/ Swedish/Spanish/Dutch/ Portuguese)	ARE1302	.....	.....	.....	.....
	Operating instructions (English)	.....	ARB1468	.....	.....	.....
	Operating instructions (German)	.....	.....	ARC1455	.....	.....
	Operating instructions (English/Chinese)	.....	.....	.....	ARE1300	.....
	Operating instructions (English/Spanish/Chinese)	.....	.....	.....	.....	ARE1301	
	Packing case	AHD2672	AHD2672	AHD2672	AHD2701	AHD2701	

FUNCTION ASSEMBLY

AWZ5521 and AWZ5492 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ5492	AWZ5521	
	D106—D109 Q106—Q109	1SS252 2SK246	..... .....
	R159, R160 R161, R162 R163, R164 R165—R168 R175—R178	RD1/8PM104J RD1/8PM273J RD1/8PM393J RD1/8PM105J RD1/8PM475J	..... ..... ..... ..... .....
	C143, C144 C145, C146 C159, C160	CCCSL221J50 CFTXA823J50 CEAS2R2M50	..... ..... .....

CONTROL ASSEMBLY

AWZ5523 and AWZ5493 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ5493	AWZ5523	
	Q203, Q204	.....	2SC2878	
	R238 R261, R262 R263, R264 R265, R267 R266	RD1/8PM103J ..... ..... ..... .....	..... RD1/8PM100J RD1/8PM103J RD1/8PM332J RD1/8PM153J	
	R268	.....	RD1/8PM333J	
	C219 C225	CEANP220M35 .....	..... CEANP4R7M50	

SP ASSEMBLY

AWZ5524, AWZ5525 and AWZ5495 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ5495	AWZ5524	AWZ5525	
	C403—C406	CKCYB472K50	.....	.....
	Speaker terminal 8—P	AKE1011	AKE1036	AKE1011	
△	CN6 (AC INLET—1P)	AKP1132	AKP1133	AKP1132	

POWER SW ASSEMBLY

Although AWZ5526 and AWZ5496 are different in part number, they have the same service parts.

8.2 CONTRAST OF MISCELLANEOUS PARTS FOR A-103/HBXJ, HEWZXJ, HLXJ SDXJ AND YPWXJ.

A-103/HBXJ, HEWZXJ, HLXJ, SDXJ, YPWXJ and A-103/HEXJ have the same construction except for the following:

Mark	Symbol & Description	Part No.						Remarks
		A-103 HEXJ	A-103 HBXJ	A-103 HEWZXJ	A-103 HLXJ	A-103 SDXJ	A-103 YPWXJ	
NSP	AF assembly	AWK1788	AWK1825	AWK1788	AWK1788	AWK1826	AWK1788	
	SP assembly	AWZ5499	AWZ5529	AWZ5499	AWZ5499	AWZ5530	AWZ5499	
	POWER SW assembly	AWZ5496	AWZ5526	AWZ5496	AWZ5496	AWZ5496	AWZ5496	
△	T1 Power transformer (AC220—230V/240V)	ATS1540	ATS1540	ATS1540	ATS1540	.....	ATS1540	
△	T1 Power transformer (AC110V/120—127V/220V/240V)	.....	.....	.....	.....	ATS1541	.....
△	Voltage selector (AC110V/120—127V/220V/240V)	.....	.....	.....	.....	AKX—507	.....	Refer to page5.
△	AC outlet	.....	.....	.....	.....	AKP—515	.....	Refer to page5.
△	FU2 Fuse (800mA)	.....	.....	.....	.....	REK1021	.....	Refer to page5.
△	AC power cord	ADG1154	ADG1156	ADG1154	ADG1154	ADG1158	ADG1160	
	Rear panel	ANC2177	ANC2178	ANC2176	ANC2202	ANC2179	ANC2178	
	Insulator	PNW1912	PNW1912	PNW1912	.....	.....	.....
	Foot	.....	.....	.....	AEC1505	AEC1505	AEC1505	
	Front panel	AMB2232	AMB2232	AMB2232	AMB2234	AMB2234	AMB2234	
	Operating instructions (English/French/German/Italian/ Swedish/Spanish/Dutch/ Portuguese)	ARE1302	.....	.....	.....	.....	.....
	Operating instructions (English)	.....	ARB1468	.....	.....	.....	ARB1468	
	Operating instructions (German)	.....	.....	ARC1455	.....	.....	.....
	Operating instructions (English/Chinese)	.....	.....	.....	ARE1300	.....	.....
	Operating instructions (English/Spanish/Chinese)	.....	.....	.....	.....	ARE1301	.....
	Packing case	AHD2673	AHD2673	AHD2673	AHD2702	AHD2702	AHD2673	

SP ASSEMBLY

AWZ5529, AWZ5530 and AWZ5499 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ5499	AWZ5529	AWZ5530	
	C403, C404	CKCYB472K50	.....	.....
△	CN6 (AC INLET—1P)	AKP1132	AKP1133	AKP1132	

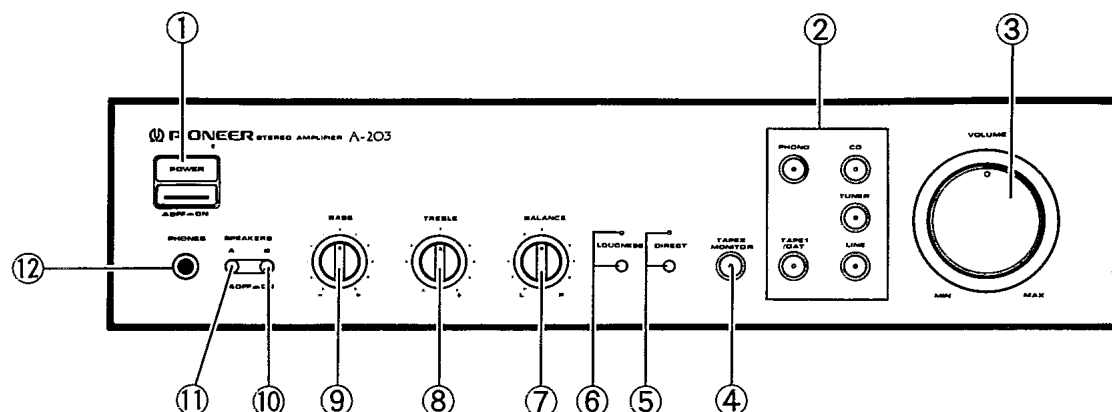
POWER SW ASSEMBLY

Although AWZ5526 and AWZ5496 are different in part number, they have the same service parts.

9. PANEL FACILITIES

1

The illustration shows model A-203.



Model A-103 is not equipped with ⑩ and ⑪.

FRONT PANEL

See Fig. 1

① POWER switch

Press to turn power to the unit ON and OFF.

② Input Selector switch/indicator

Use to select the playback source.

PHONO:

For record playback with a turntable.

CD:

For compact disc playback with a CD player.

TUNER:

For AM or FM broadcast reception with a tuner.

LINE:

Set to this position when listening to the programs from a component connected to the LINE terminals.

TAPE 1/DAT:

For playback with a cassette deck or digital audio tape deck connected to the TAPE 1/DAT terminals.

③ VOLUME control

Use to adjust the volume level.

④ TAPE 2 MONITOR switch/indicator

Use when there is an adaptor component (graphic equalizer, etc.) or cassette deck connected to the TAPE 2 MONITOR terminals.

ON:

Indicator lights when using the adaptor component or listening to the cassette deck.

OFF:

Indicator goes out when not in use.

NOTE:

- When no connections are made to the TAPE 2 MONITOR terminals, or when they are not in use, be sure to set this switch to the OFF position. (No sound will be heard if it is set to the ON position.)
- When the TAPE 2 MONITOR indicator is on and the input selector switch is not set to TAPE 1/DAT, the signals which are input through TAPE 2 MONITOR are then output at TAPE 1/DAT REC OUT.

⑤ DIRECT switch/indicator

Use this switch when you do not wish to pass the output from input terminal equipment through the various frequency adjusting circuits (BASS, TREBLE, BALANCE, LOUDNESS.)

ON:

The indicator lights: The signals input through the input terminals are reproduced without passing through the various frequency adjusting circuits. This results in flat, pure sound which is a more faithful reproduction of the input source.

OFF:

The indicator goes out: The signal passes through the various frequency adjusting circuits.

⑥ MUTING button/indicator (Only U.K. model of A-203)

Use to temporarily cut sound volume.

ON: (Red illumination)

The indicator lights. The sound volume will be reduced -20dB.

OFF:

The indicator goes off. The sound will return to its previous volume.

⑥ LOUDNESS switch/indicator (Except U.K. model of A-203)

Use when listening at low volume levels.

ON:

The indicator lights: Boosts low and high frequencies to give added punch to playback even at low volume levels.

OFF:

The indicator goes off: Should normally be left in this position.

NOTE:

This control does not operate when the DIRECT switch is in the ON position.

⑦ BALANCE control

Should normally be left in the center position. Adjust the balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the L (left) position and if the left side is louder, turn toward the R (right) position.

NOTE:

This control does not operate when the DIRECT switch is in the ON position.

⑧ TREBLE tone control

Use to adjust the high-frequency tone. The center position is the flat (normal) position. When turned to the right, high-frequency tone is emphasized; when turned to the left, high-frequency tone is de-emphasized.

NOTE:

This control does not operate when the DIRECT switch is in the ON position.

⑨ BASS tone control

Use to adjust the low-frequency tone. The center position is the flat (normal) position. When turned to the right, low-frequency tone is emphasized; when turned to the left, low-frequency tone is de-emphasized.

NOTE:

This control does not operate when the DIRECT switch is in the ON position.

⑩ SPEAKERS B selector switch (A-203 only)

Use this switch to listen to the speaker system connected to the SPEAKERS B terminals.

ON (■):

Depressed position: Sound is heard from the speaker system.

OFF (■):

Released position: No sound is heard from the speaker system. Set to this position when listening with headphones

⑪ SPEAKERS A selector switch (A-203 only)

Use this switch to listen to the speaker system connected to the SPEAKERS A terminals.

ON (■):

Depressed position: Sound is heard from the speaker system.

OFF (■):

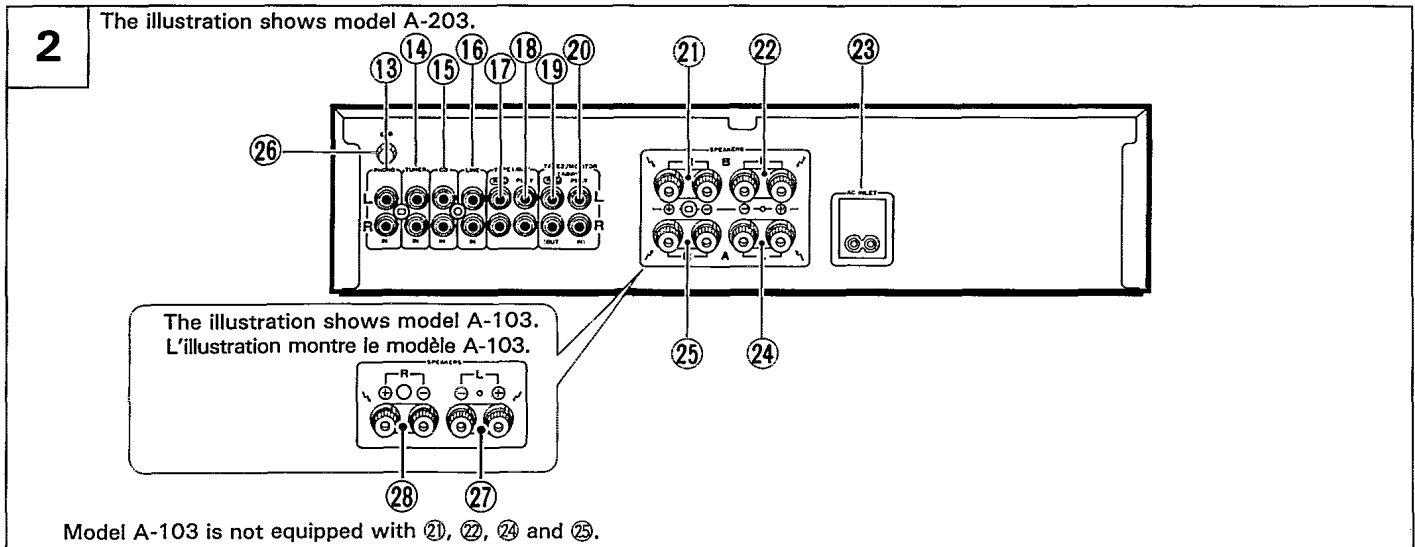
Released position: No sound is heard from the speaker system.

Set to this position when listening with headphones.

⑫ PHONES jack

When using headphones, insert the plug into this jack.

With model A-103 the output to the speakers is cut automatically when connecting headphones.



REAR PANEL

See Fig. **2**

- ⑬ **PHONO** terminals
- ⑭ **TUNER** terminals
- ⑮ **CD** terminals
- ⑯ **LINE** terminals
- ⑰ **TAPE 1/DAT REC** terminals
- ⑱ **TAPE 1/DAT PLAY** terminals
- ⑲ **TAPE 2/MONITOR (ADPT) REC (OUT)** terminals
- ⑳ **TAPE 2/MONITOR (ADPT) PLAY (IN)** terminals
- ㉑ **SPEAKERS B** terminals (right channel) (A-203 only)
- ㉒ **SPEAKERS B** terminals (left channel) (A-203 only)
- ㉓ **AC INLET** jack
Connect power cord to here and an AC wall socket, or the AC outlet of an audio timer.
If you are going to be away from home for a long period of time, disconnect the unit from the wall socket.
- ㉔ **SPEAKERS A** terminals (left channel) (A-203 only)
- ㉕ **SPEAKERS A** terminals (right channel) (A-203 only)
- ㉖ **GND (Turntable ground)** terminal
- ㉗ **SPEAKERS** terminals (left channel) (A-103 only)
- ㉘ **SPEAKERS** terminals (right channel) (A-103 only)