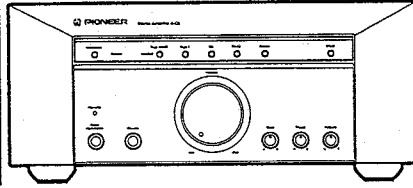


Service Manual

PIONEER
The Art of Entertainment



ORDER NO.
RRV1025

STEREO AMPLIFIER **A-C5** **A-C3**

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-C5	A-C3		
HEWZIW	○	○	AC220-230V	AC240V, *
HE	○	○	AC220-230V	AC240V, *
HB	○	○	AC240V	AC220-230V, *

* : 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-C5/HE and HB; A-C3/HEWZIW, HE and HB, refer to page 32.

CONTENTS

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1. EXPLODED VIEWS, PACKING AND PARTS LIST

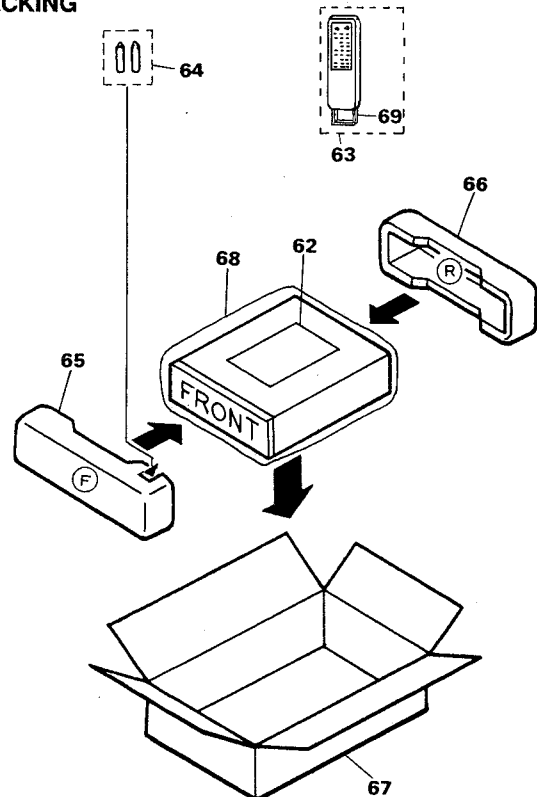
NOTES:

- 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.

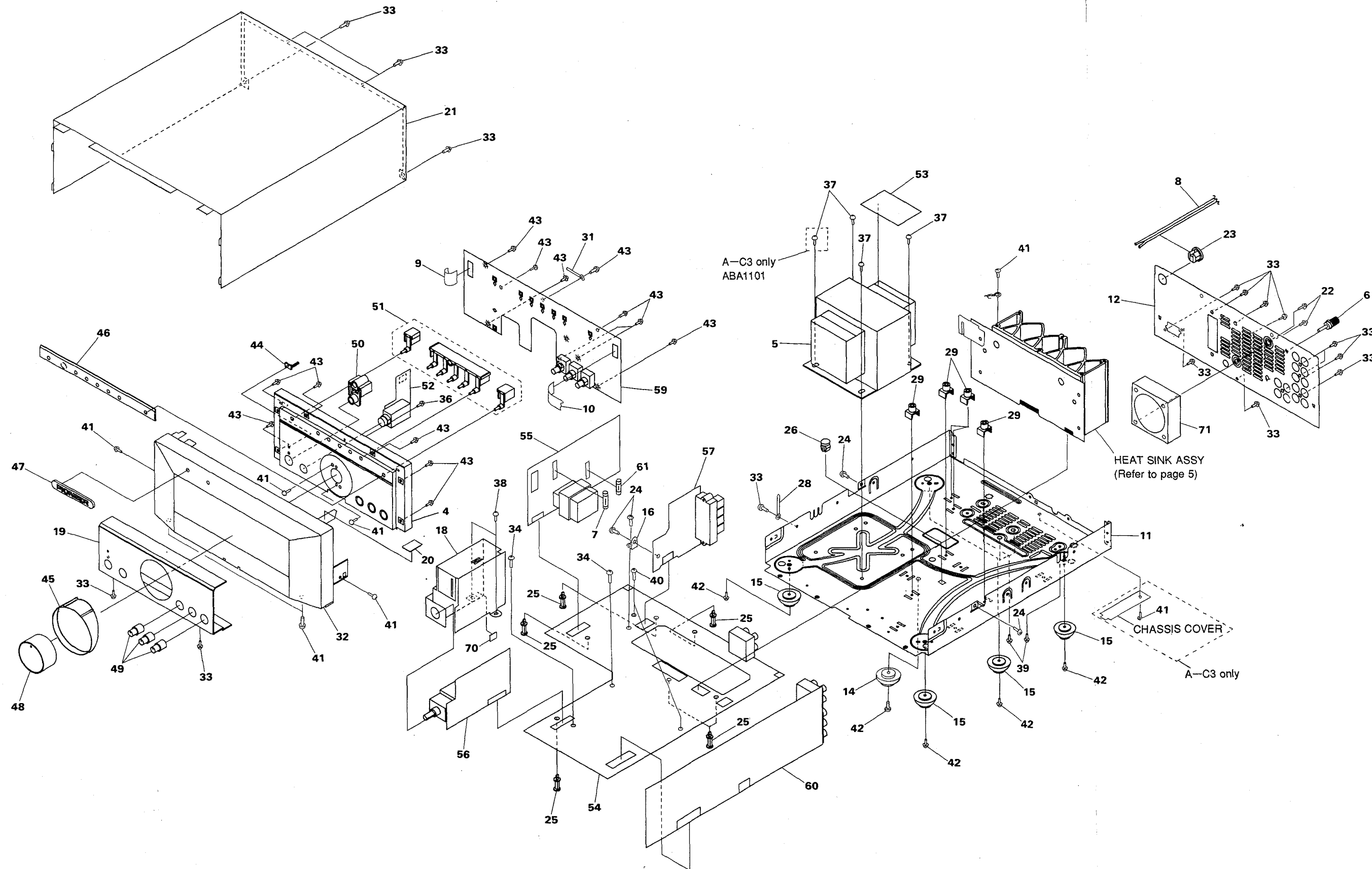
• PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
Δ	1	TRANSISTOR Q3,Q4	2SA1264N		51	FUNCTION BUTTON(PLS)	AAD7016
Δ	2	TRANSISTOR Q1,Q2	2SC3181N	NSP	52	HEAD PHONE ASSY	AWZ7001
Δ	3	TRANSISTOR Q5,Q6	2SC4137	NSP	53	TRANS CONNECT ASSY	AWZ7300
	4	SUB PANEL(PLS)	AMB7030		54	AF ASSY	AWZ7008
Δ	5	POWER TRANSFORMER	ATS7007		55	SUB TRANS ASSY	AWZ7023
	6	TERMINAL SCREW	AKE-031		56	VOLUME ASSY	AWZ7005
Δ	7	FU1001 (I=T1.6A,V=250)	AEK-510	NSP	57	SP OUT ASSY	AWZ7019
Δ	8	AC POWER CORD	ADG1049		58	POWER AMP ASSY	AWZ7029
	9	FLEXIBLE CABLE	ADD1128		59	FRONT ASSY	AWZ7031
	10	FLEXIBLE CABLE	ADD1130		60	FUNCTION ASSY	AWZ7033
NSP	11	CHASSIS	ANA7005	Δ	61	FU1003 (I=T800MA,V=250)	AEK-507
	12	REAR PANEL(MTL)	ANC7062		62	OPERATING INSTRUCTIONS (German, Italian)	ARC7004
NSP	13	HEAT SINK	ANH7003		63	REMOTE CONTROL UNIT	AXD7018
	14	INSULATOR	AMR7007	NSP	64	BATTERY(R6P,AA)	AEX-010
	15	INSULATOR	PNW2363		65	F.PAD	AHA7012
	16	KINK METAL	ANG1838		66	R.PAD	AHA7013
	17	PCB METAL	ANG7001		67	PACKING CASE	AHD7009
	18	SHIELD BOX	ANK7001		68	PACKING SHEET	AHG1093
	19	FRONT PANEL(AL)	ANB7004		69	BATTERY COVER	AZA7027
	20	CUSHON GUM	AEB7003		70	CUSHON GUM	AEB7005
	21	BONNET CASE(MTL)	ANE7015		71	FAN MOTOR	AXM1019
	22	SCREW	PTZ45P100FZK				
	23	STRAIN RELIEF	AEC-882				
	24	NYLON RIVET	AEC1160				
NSP	25	PCB SPACER	AEC1371				
NSP	26	PCB SUPPORT SHEET	AEC1461				
	27	SHEET	AEE1014				
	28	BINDER	AEP-215				
NSP	29	PCB MOULD	AMR2115				
	30	PCB HOLDER	AMR7008				
NSP	31	CORD CLAMPER	PEC-034				
	32	FRONT PANEL	AMB7045				
	33	SCREW (STEEL)	ABA1006				
	34	SCREW	ABA1024				
	35	SCREW	ABA1082				
	36	SCREW (STEEL)	ABA1095				
	37	SCREW (STEEL)	ABA1184				
	38	SCREW (STEEL)	ABA1192				
	39	SCREW (STEEL)	ABA1193				
	40	SCREW (STEEL)	ABA7002				
	41	SCREW	BBZ30P080FZK				
	42	SCREW	BBZ30P100FZK				
	43	SCREW	BPZ26P080FMC				
	44	LENS(POWER IND)	AAK2442				
	45	VOLUME LING	AAK7029				
	46	DISPLAY PANEL(PLS)	AAK7031				
	47	NAME PLATE (AL)	RAN1013				
	48	VOLUME ASSY(AL)	AAB7009				
	49	BASS TRE KNOB(PLS)	AAB7011				
	50	POWER BUTTON(PLS)	AAD7013				

• PACKING

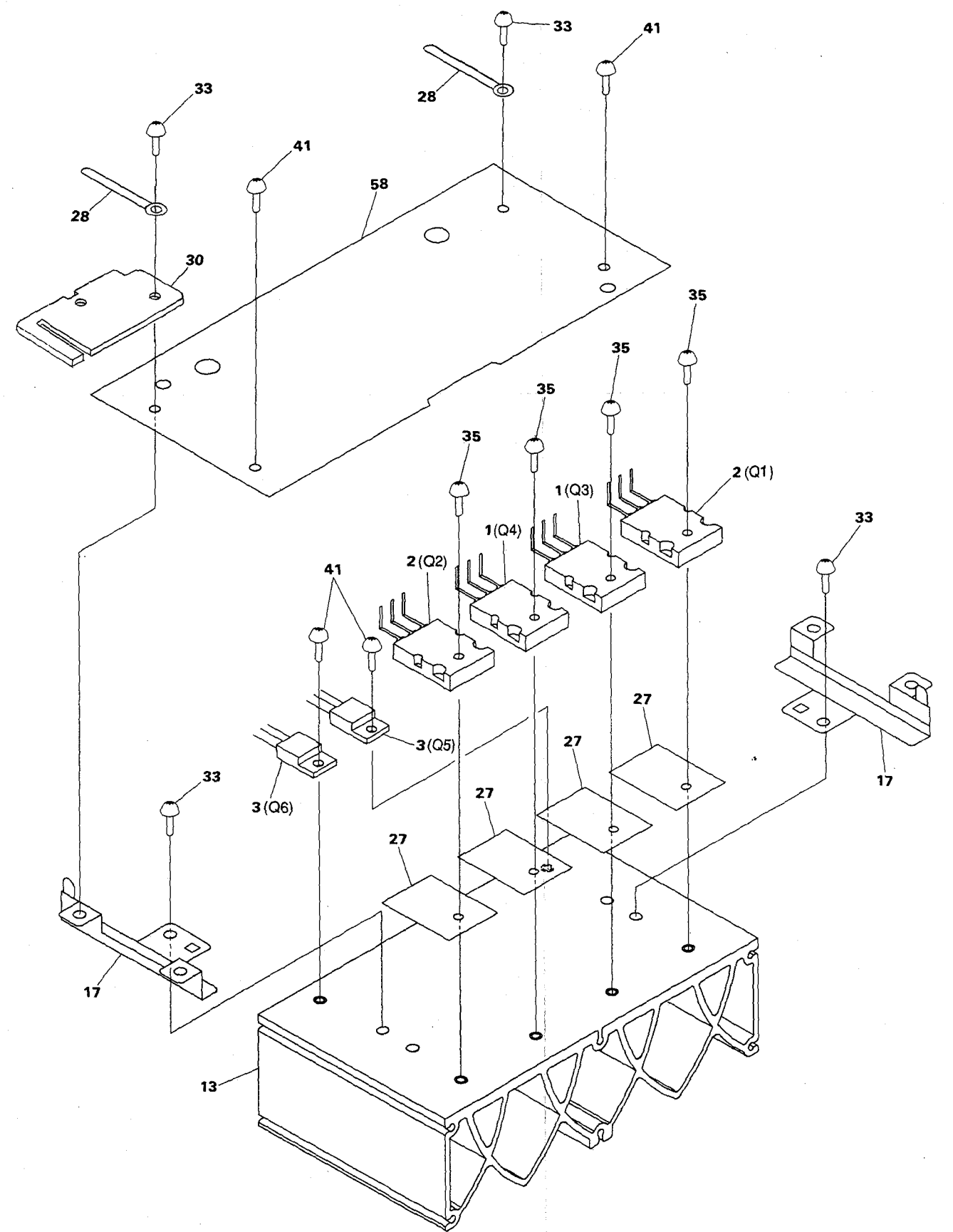
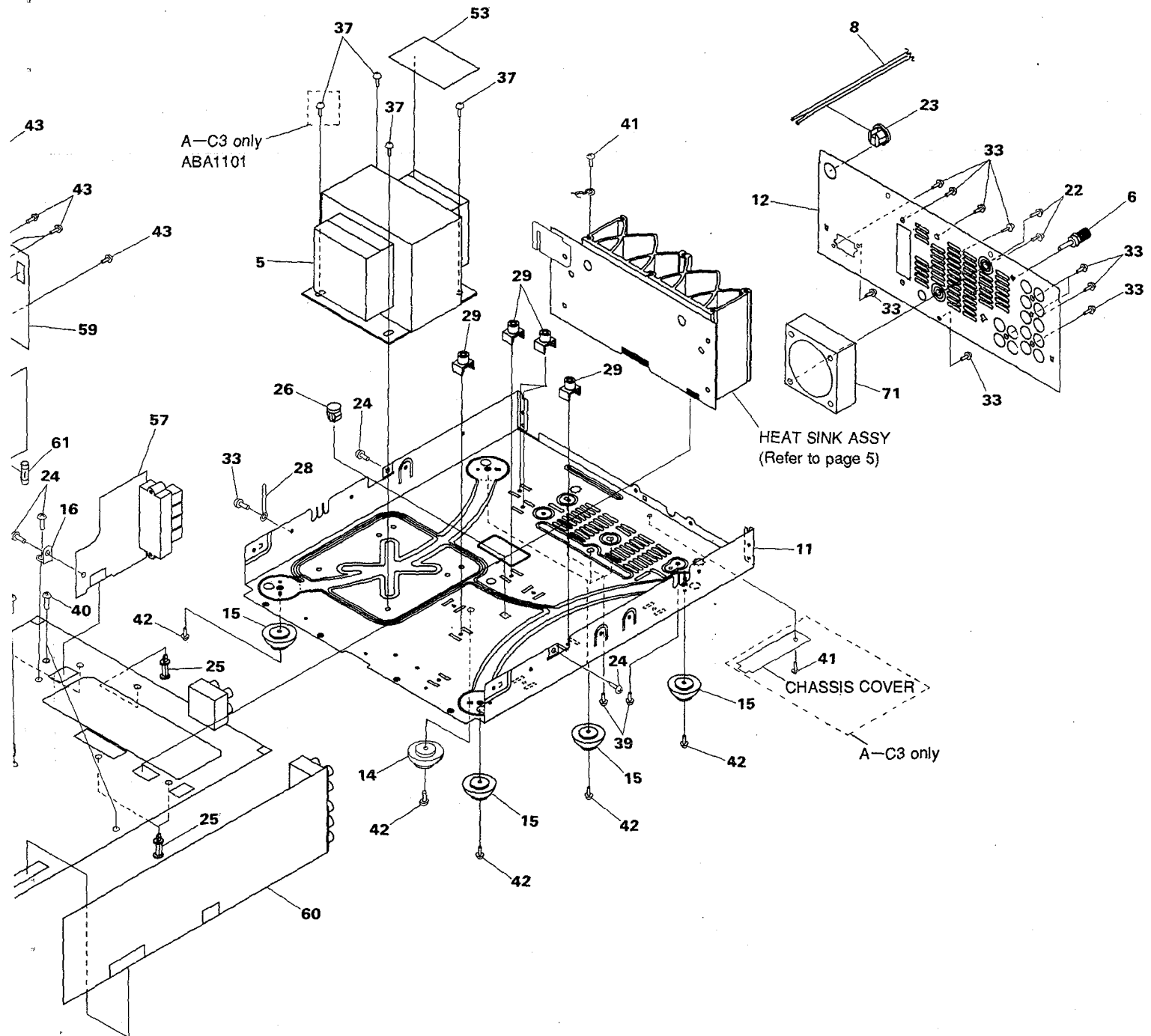


● EXTERIOR



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

● HEAT SINK ASSY



A
B
C
D

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2. SCHEMATIC AND PCB CONNECTION DIAGRAMS

NOTE FOR SCHEMATIC DIAGRAMS (Type 1A)

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. **RESISTORS:**
Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.

4. **CAPACITORS:**
Unit: p:pF or μF unless otherwise noted.
Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.

5. **COILS:**
Unit: m:mH or μH unless otherwise noted.

6. **VOLTAGE AND CURRENT:**
V : Signal voltage at rated output.
or + V :
DC voltage (V) at no input signal unless otherwise noted.
Value in () is DC voltage at rated power.
mA or - mA :
DC current at no input signal unless otherwise noted.

7. **OTHERS:**
• ⊙ or ⊙ : Adjusting point.
• ◀ : 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 parts of identical designation.

8. **SCH-□ ON THE SCHEMATIC DIAGRAM:**
• SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

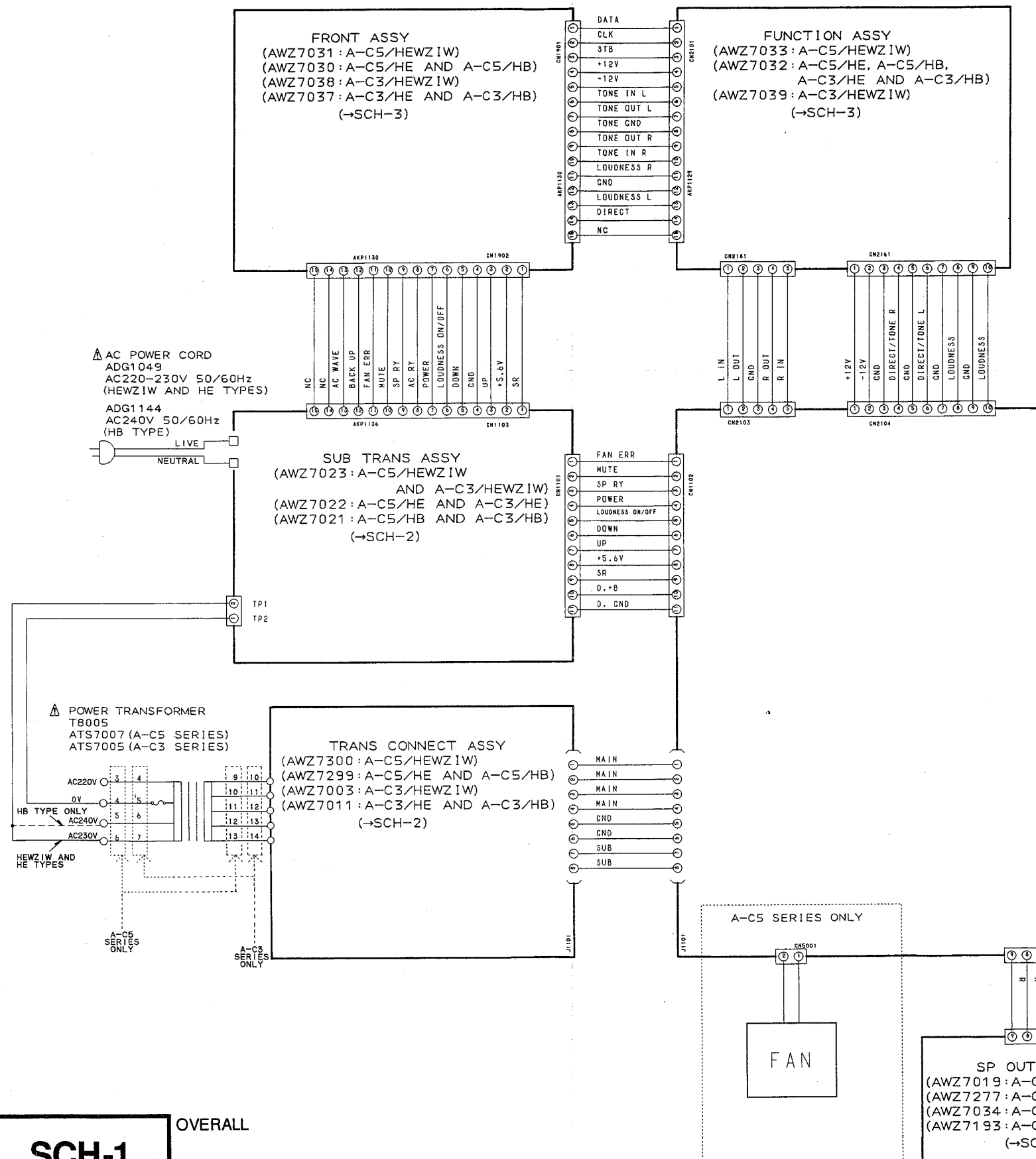
9. **SWITCHES (Underline indicates switch position):**
FRONT ASSY
S1901 : LOUDNESS
S1902 : TAPE2/AUX
S1903 : TAPE1
S1904 : CD
S1905 : TUNER
S1906 : PHONO
S1907 : DIRECT
S1908 : POWER

NOTE FOR PCB DIAGRAMS:

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

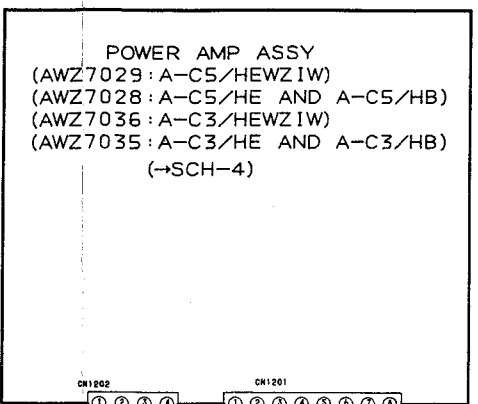
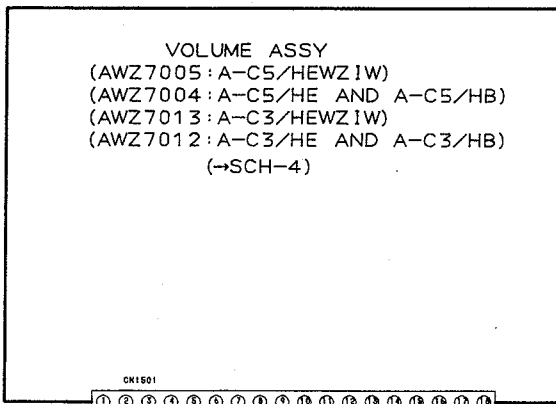
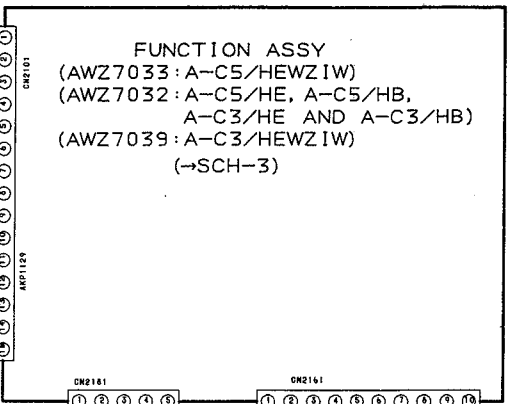
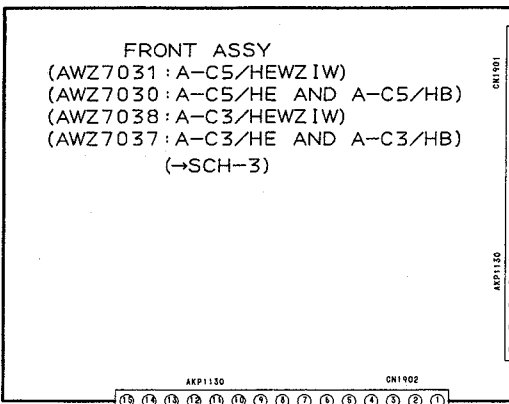
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

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 L shows negative terminal.



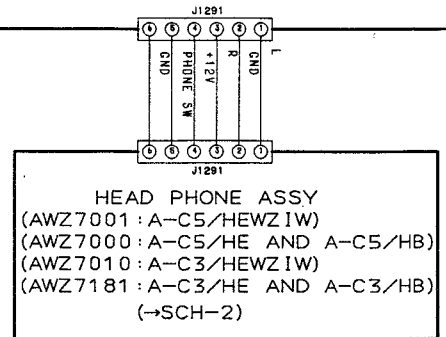
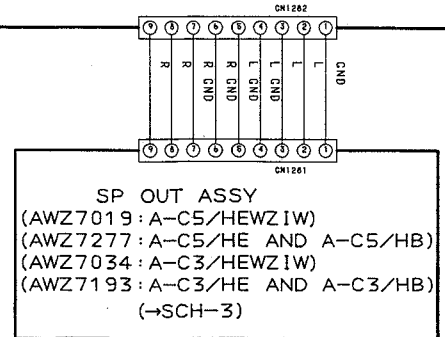
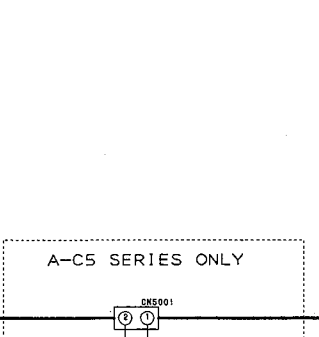
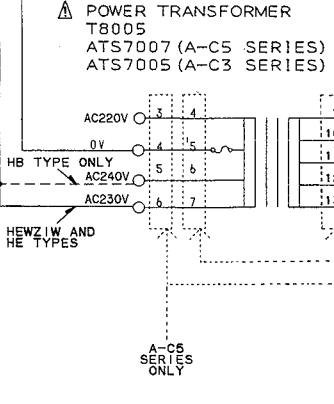
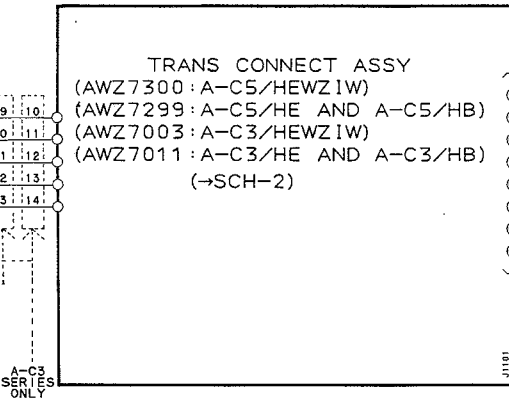
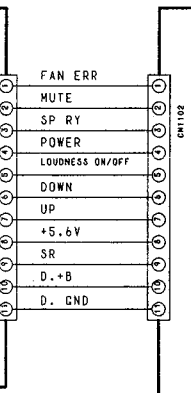
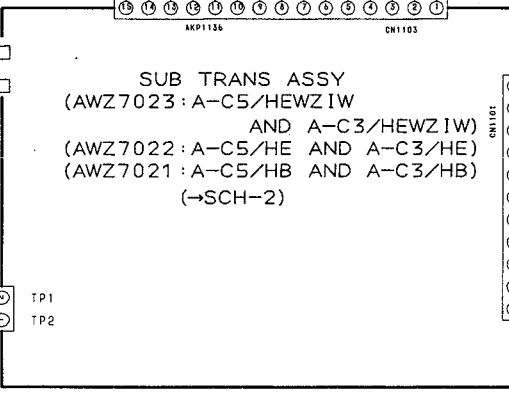
SCH-1 OVERALL

SCH-1



AC POWER CORD
ADG1049
AC220-230V 50/60Hz
(HEWZIW AND HE TYPES)

ADG1144
AC240V 50/60Hz
(HB TYPE)

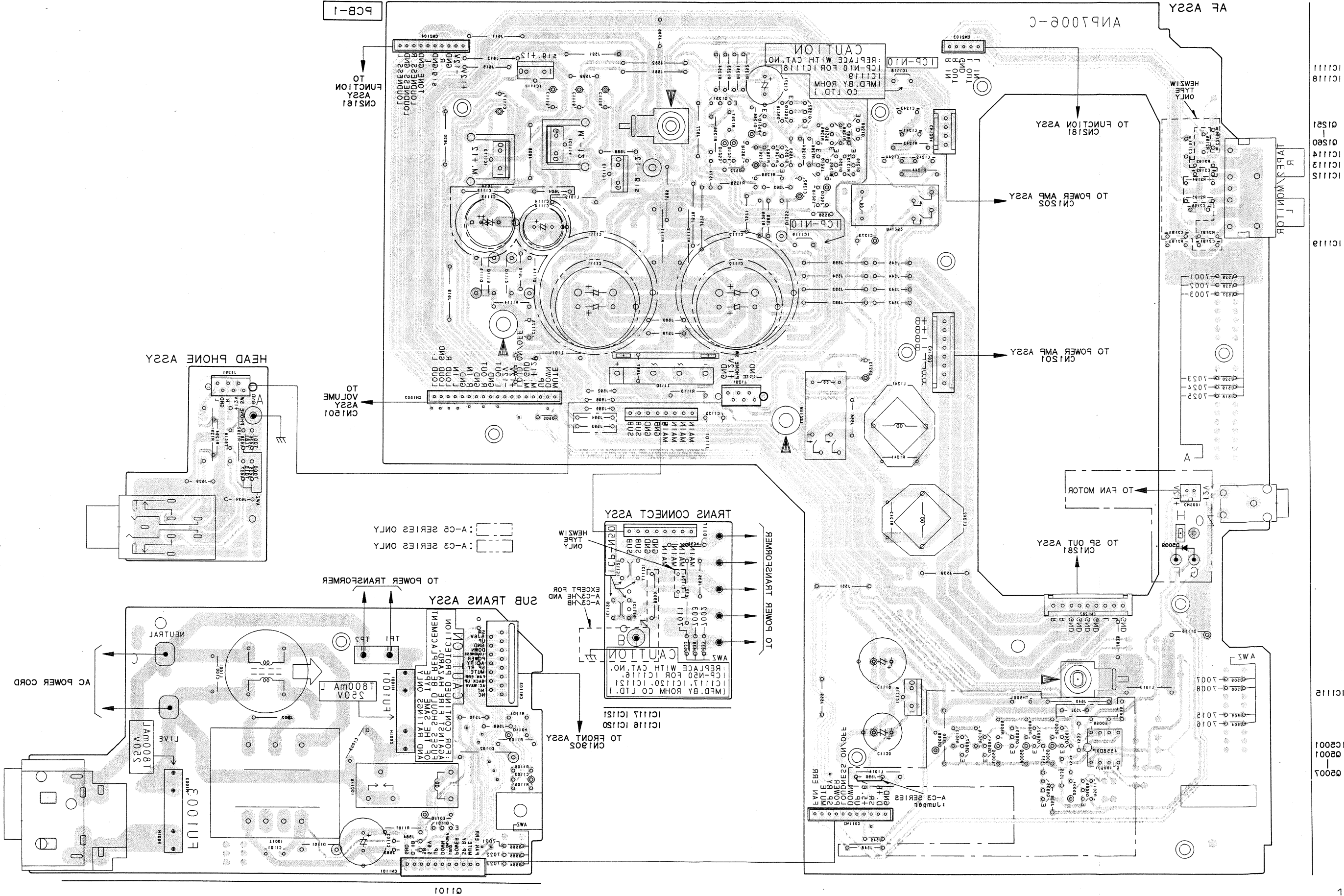


SCH-1

SCH-1

3.5 AF HEAD PHONE TRANS CONNECT AND SUB TRANS ASSY

• This diagram is viewed from the foil side.



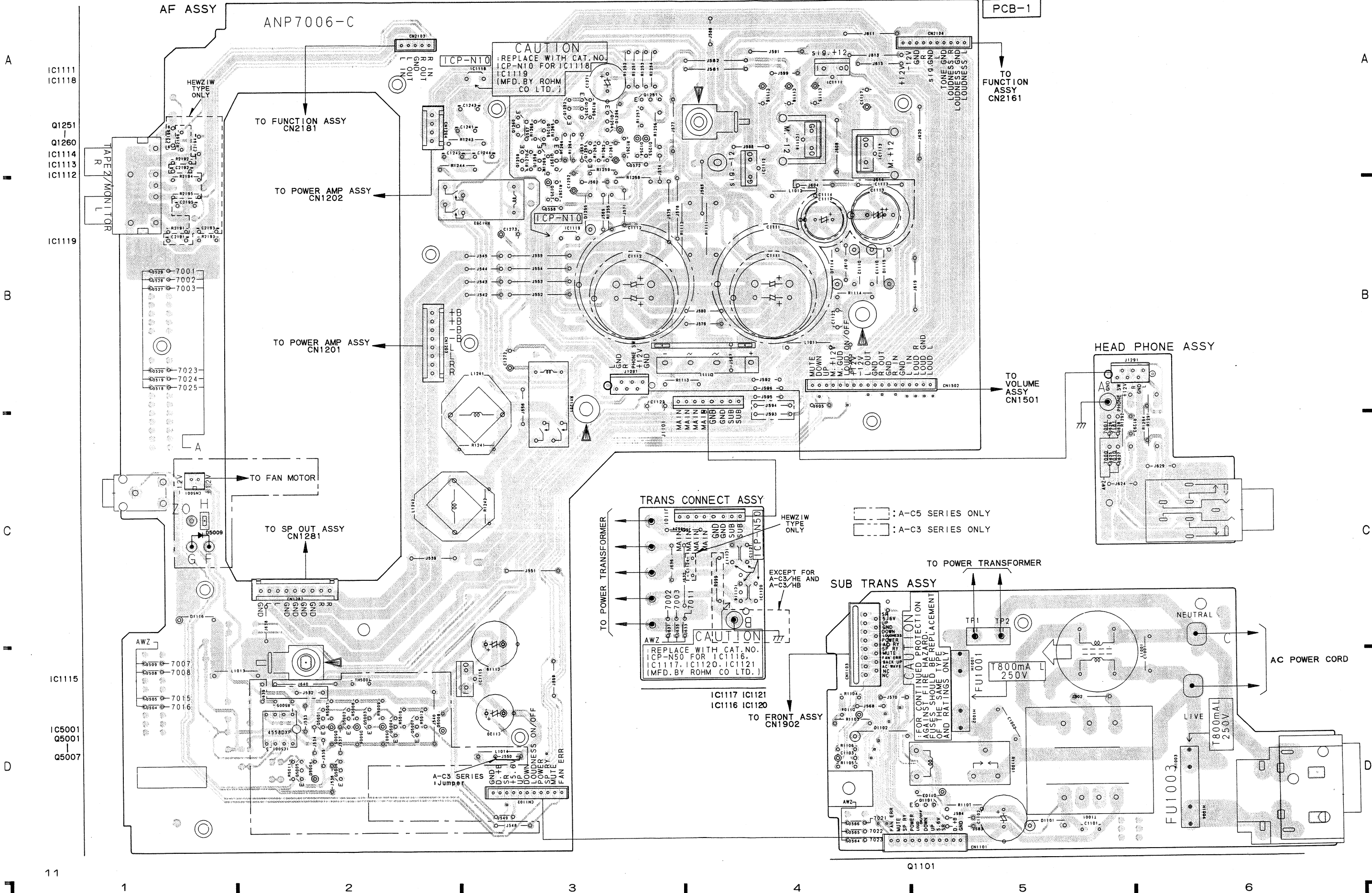
IC1118
Q1S21
Q1S80
IC1114
IC1113
IC1115
IC1118
IC1118
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1002
1003
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2.2 AF, HEAD PHONE, TRANS CONNECT AND SUB TRANS ASSY

This diagram is viewed from the mounted parts side.

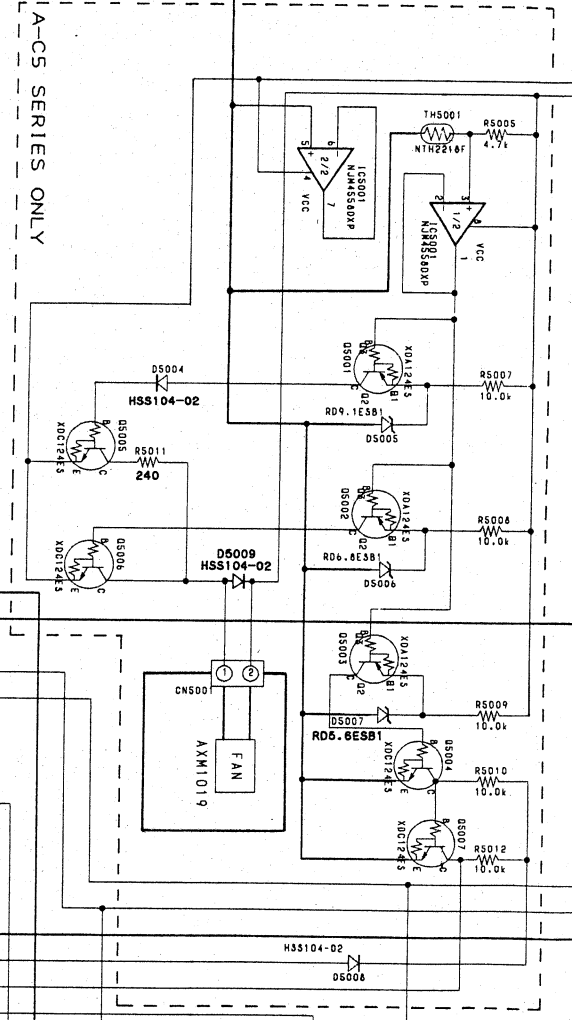
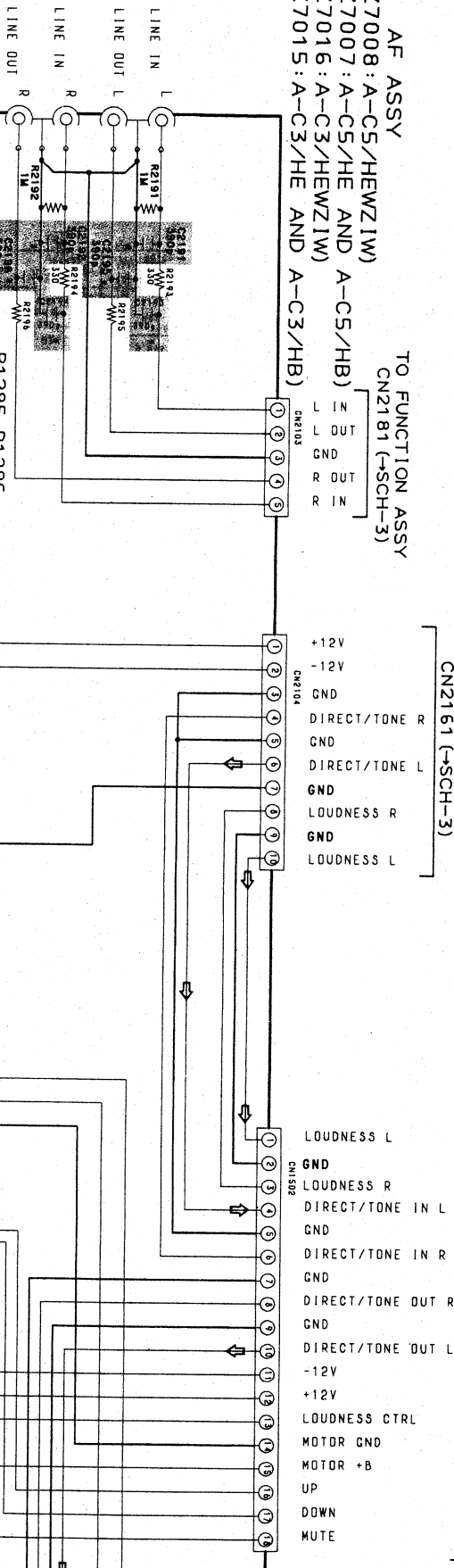


AF ASSY
 (AWZ7008:A-C5/HEWZIW)
 (AWZ7007:A-C5/HE AND A-C5/HB)
 (AWZ7016:A-C3/HEWZIW)
 (AWZ7015:A-C3/HE AND A-C3/HB)

TO FUNCTION ASSY
 CN2181 (-SCH-3)

TO FUNCTION ASSY
 CN2161 (-SCH-3)

TO VOLUME ASSY
 CN1501 (-SCH-4)



C1111
 ACH1196 (A-C5 SERIES)
 ACH1145 (A-C3 SERIES)

C1112
 ACH1078 (A-C5 SERIES)
 ACH1145 (A-C3 SERIES)

D1111
 RBV602
 D3SBA20 (A) (A-C3 SERIES)

R1113 10 (A-C5 SERIES)
 1 (A-C3 SERIES)

C1113
 ACH1109 (A-C5 SERIES)
 1000/35 (A-C3 SERIES)

C1114
 1000/35 (A-C5 SERIES)
 470/35 (A-C3 SERIES)

A-C5 SERIES ONLY

TRANS CONNECT AS
 (AWZ7300:A-C5/HEWZIW)
 (AWZ7299:A-C5/HE AND A-C5/HB)
 (AWZ7003:A-C3/HEWZIW)
 (AWZ7011:A-C3/HE AND A-C3/HB)

CAUTION: FOR CONTINUED PROTECTION, REPLACEMENT PARTS MUST BE THE SAME OR EQUIVALENT. CONTACT THE MANUFACTURER FOR PARTS LIST.

CAUTION: FOR CONTINUED PROTECTION, REPLACEMENT PARTS MUST BE THE SAME OR EQUIVALENT. CONTACT THE MANUFACTURER FOR PARTS LIST.

Line Voltage Selection

- Line Voltage can be changed by the following steps:
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection of the power cord.
4. Stick the line voltage label on the rear panel.

Part No.	Description
AAAX-193	220V label
AAAX-192	240V label

SCH-2

AF ASSY,
 HEAD PHONE ASSY,
 TRANS CONNECT ASSY,
 SUB TRANS ASSY

F

E

D

C

B

A

1

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3

4

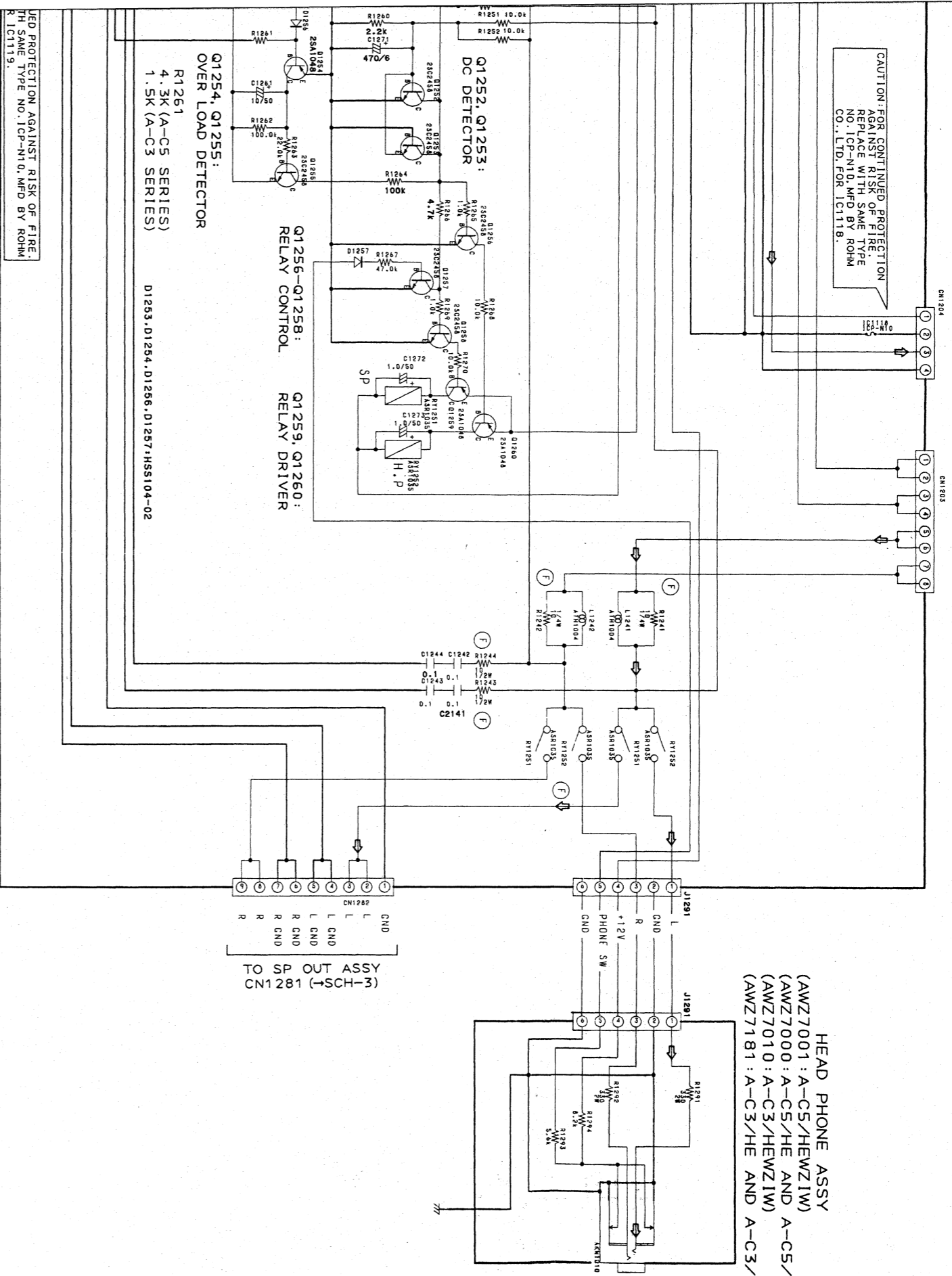
5

⇨ Signal route
HEWZIW TYPE ONLY

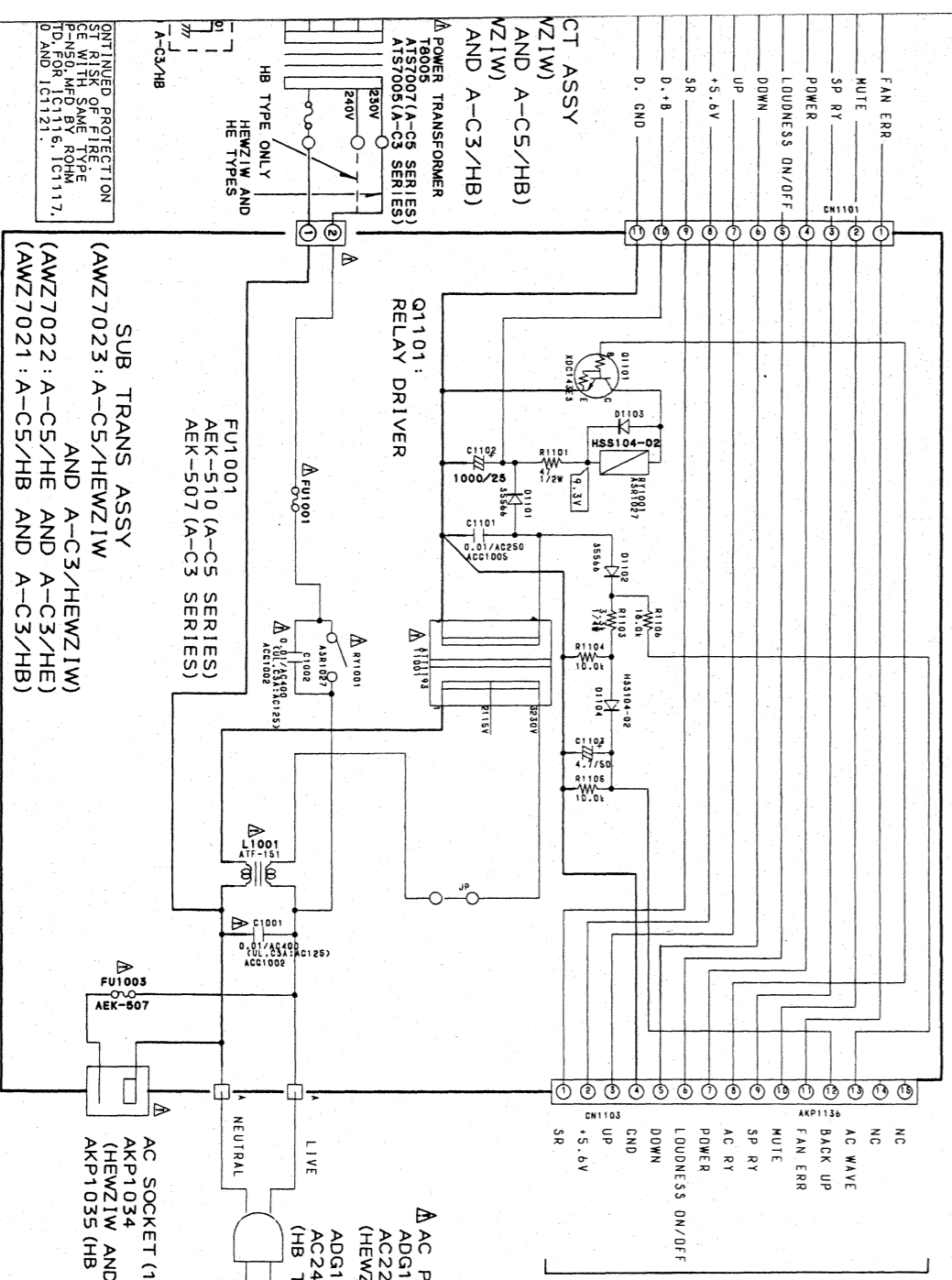
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC1118.

TO POWER AMP ASSY
CN1202 (-SCH-4)
TO POWER AMP ASSY
CN1201 (-SCH-4)

HEAD PHONE ASSY
(AWZ7001: A-C5/HEWZIW)
(AWZ7000: A-C5/HE AND A-C5/HB)
(AWZ7010: A-C3/HEWZIW)
(AWZ7181: A-C3/HE AND A-C3/HB)



LED PROTECTION AGAINST RISK OF FIRE. WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC1119.



SUB TRANS ASSY
(AWZ7023: A-C5/HEWZIW AND A-C3/HEWZIW)
(AWZ7022: A-C5/HE AND A-C3/HE)
(AWZ7021: A-C5/HB AND A-C3/HB)

CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC1117, IC1121.

tion
d by the following modification:
cord.

the power transformer primary taps.
on the rear panel.

AF ASSY,
HEAD PHONE ASSY,
TRANS CONNECT ASSY,
SUB TRANS ASSY

2.3 FUNCTION, FRONT AND SP OUT ASSY

FUNCTION ASSY
(AWZ7033: A-C5/HEWZIW)
(AWZ7032: A-C5/HE, A-C5/HB, A-C3/HE AND A-C3/HB)
(AWZ7039: A-C3/HEWZIW)

R2105
2.2K (HEWZIW TYPE)
1.0K (HE AND HB TYPES)

R2121, R2122
0 (HEWZIW TYPE)
180 (HE AND HB TYPES)

IC2101:
PHONO AMP

R2189, R2190
470 (HEWZIW TYPE)
0 (HE AND HB TYPES)

R2106
2.2K (HEWZIW TYPE)
1.0K (HE AND HB TYPES)

R2159
220 (HEWZIW TYPE)
47 (HE AND HB TYPES)

IC2102:
FUNCTION SW

R2160
220 (HEWZIW TYPE)
47 (HE AND HB TYPES)

IC2153: BUFFER

IC2161: BUFFER (LOUDNESS)

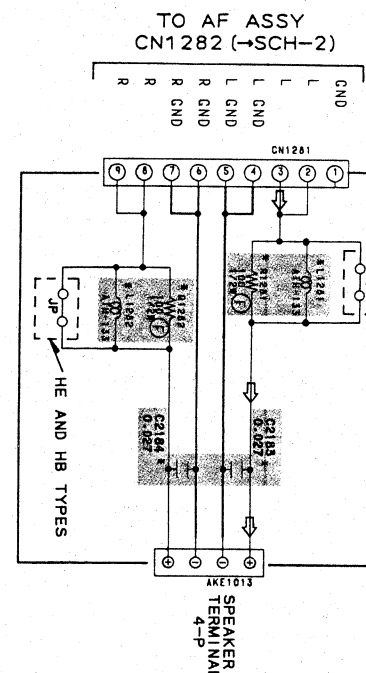
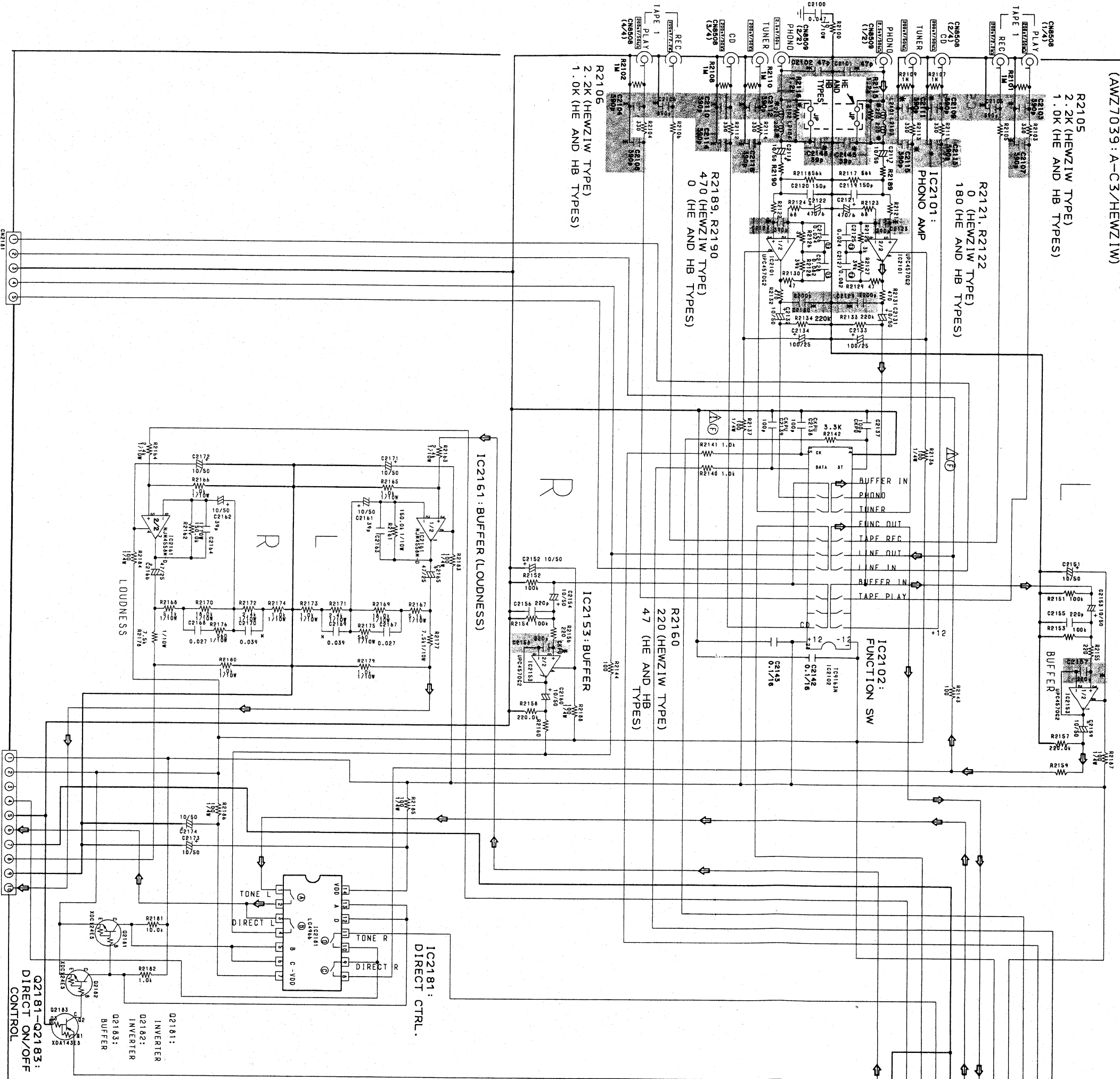
IC2181:
DIRECT CTRL.

LOUDNESS

TO AF ASSY
CN2103 (-SCH-2)

SP OUT ASSY
(AWZ7019: A-C5/HEWZIW)
(AWZ7277: A-C5/HE AND A-C5/HB)
(AWZ7034: A-C3/HEWZIW)
(AWZ7193: A-C3/HE AND A-C3/HB)

TO AF ASSY
CN2104 (-SCH-2)



SCH-3

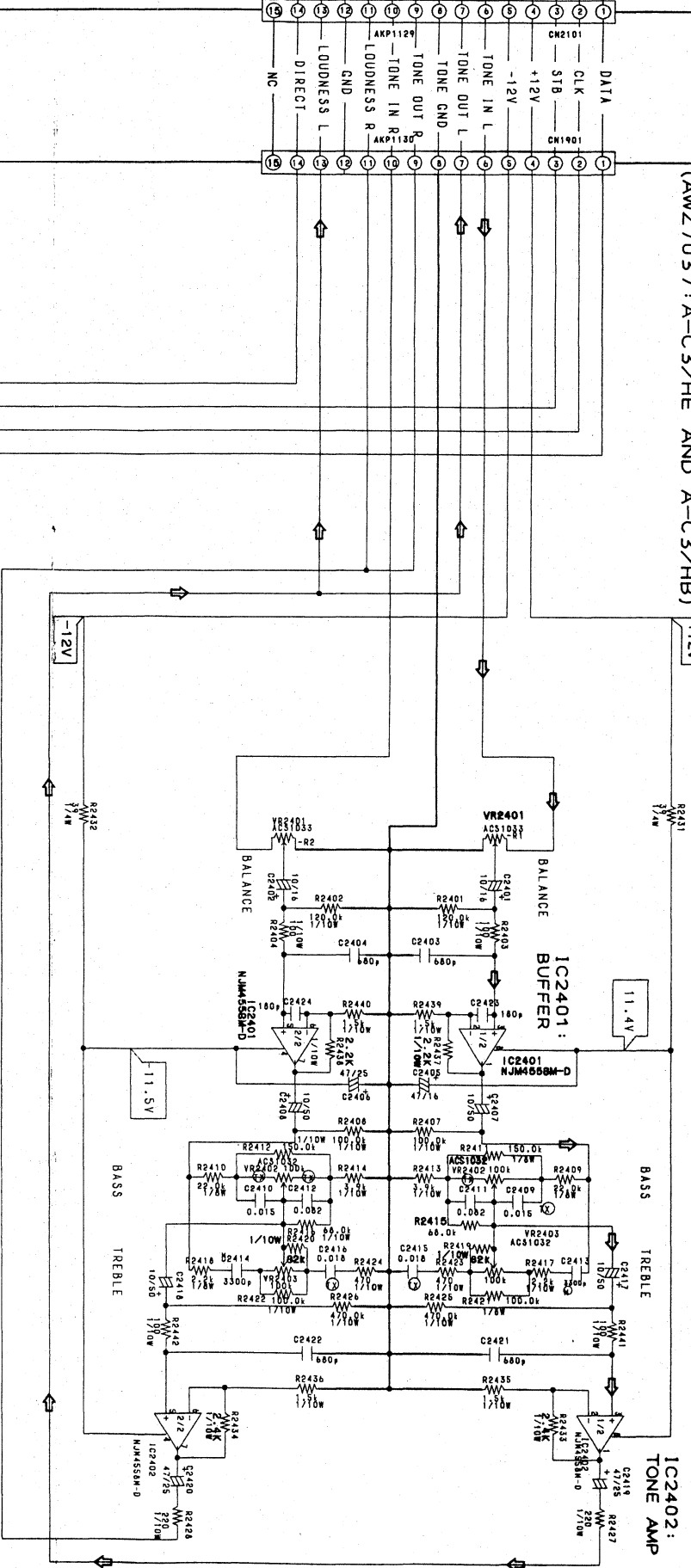
FUNCTION ASSY,
FRONT ASSY,
SP OUT ASSY

16 1 2 3 4 5

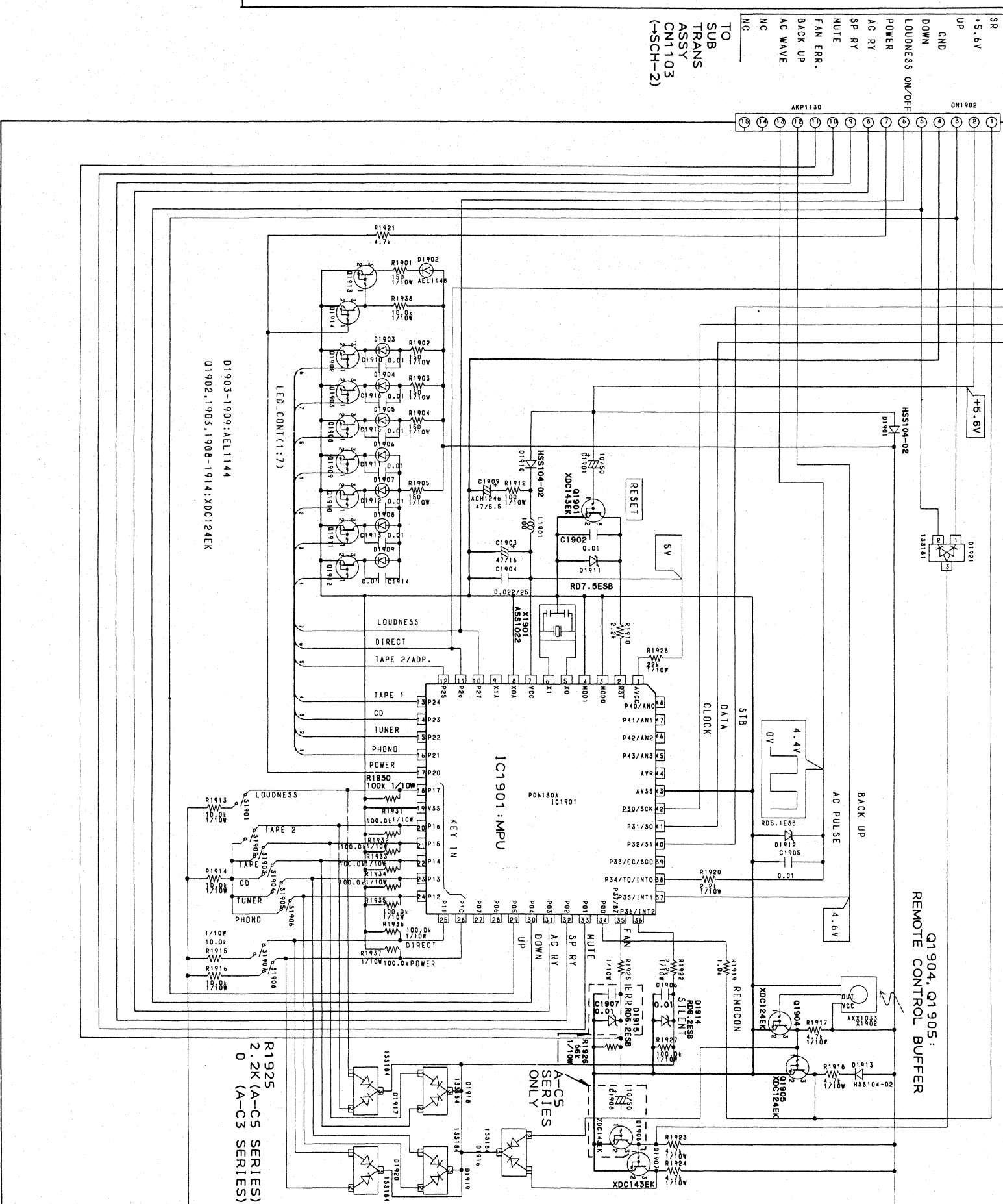
FRONT ASSY
 (AWZ7031: A-C5/HEWZIW)
 (AWZ7030: A-C5/HE AND A-C5/HB)
 (AWZ7038: A-C3/HEWZIW)
 (AWZ7037: A-C3/HE AND A-C3/HB)

→ Signal route
 → HEWZIW TYPE ONLY

SCH-3



SR
 +S.6V UP
 GND DOWN
 LOUDNESS ON/OFF
 POWER AC RY
 SP RY
 MUTE
 FAN ERR.
 BACK UP
 AC WAVE
 NC
 TO SUB TRANS ASSY CN1103 (-SCH-2)

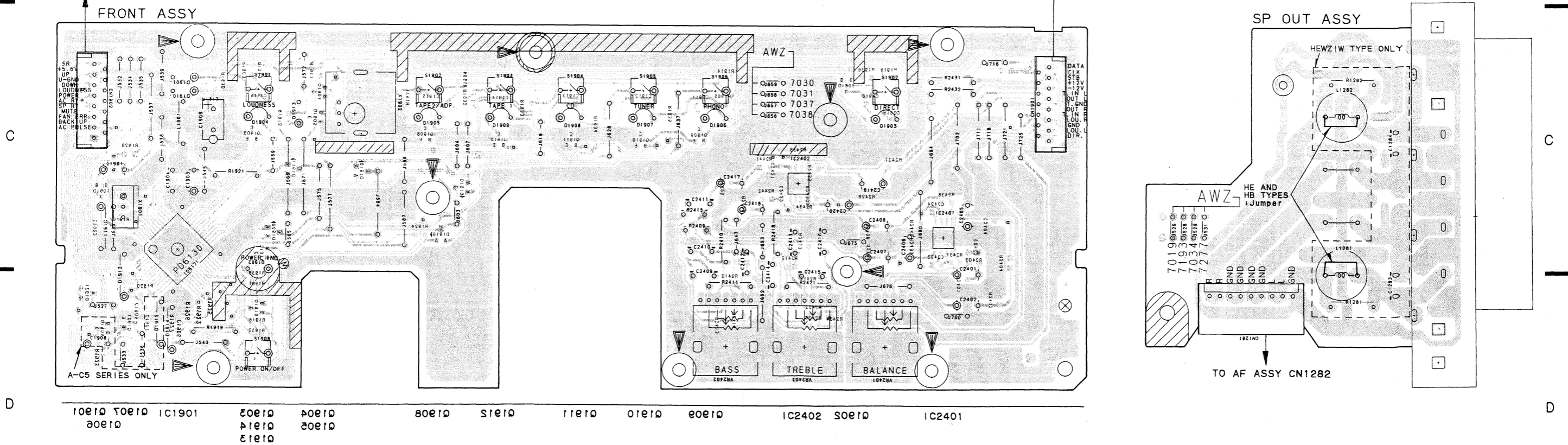
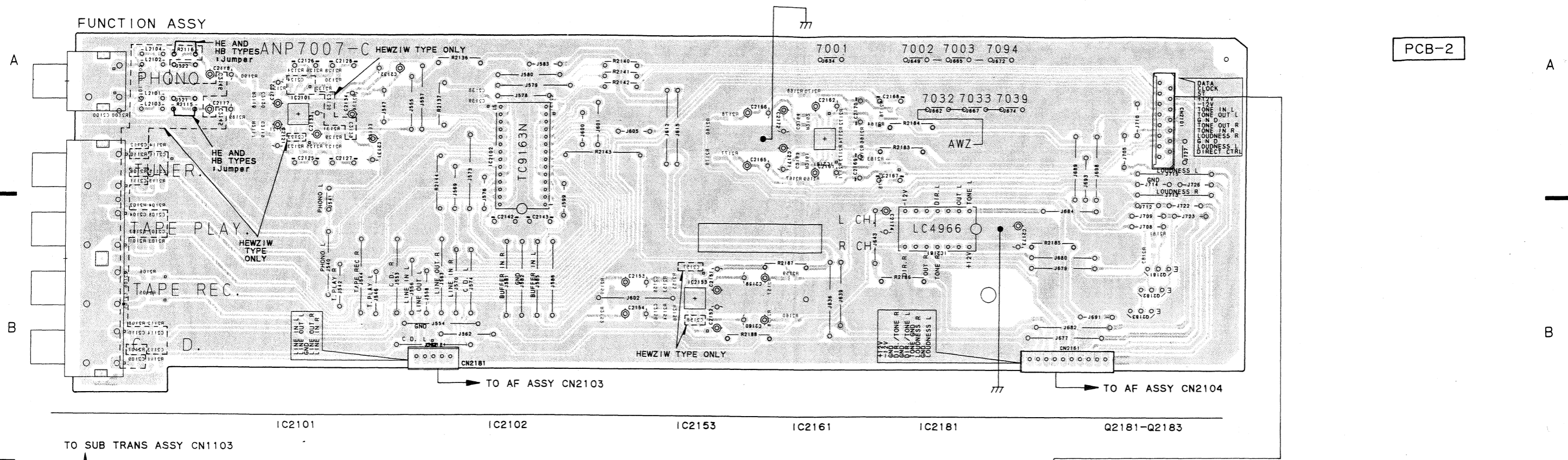


D1903-1909: AEL1144
 D1902, 1903, 1908-1914: XDC124EK

R1925
 2.2K (A-C5 SERIES)
 0 (A-C3 SERIES)

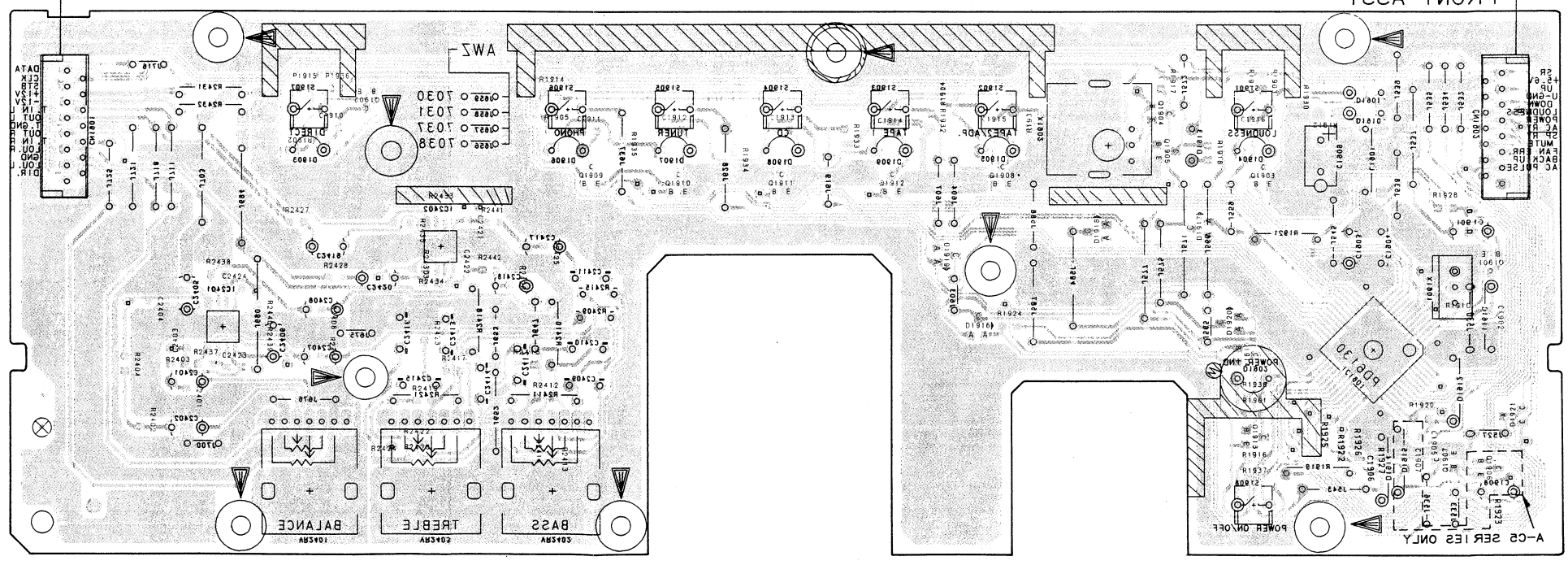
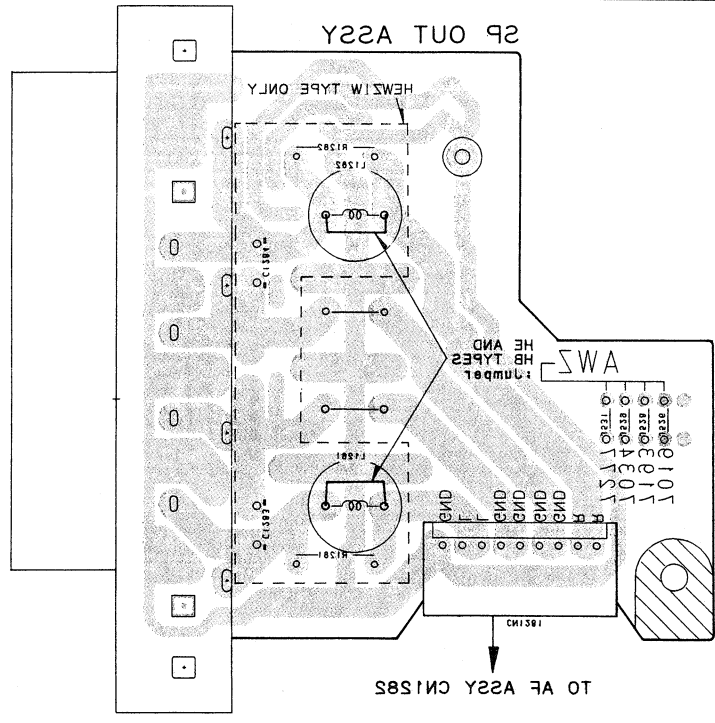
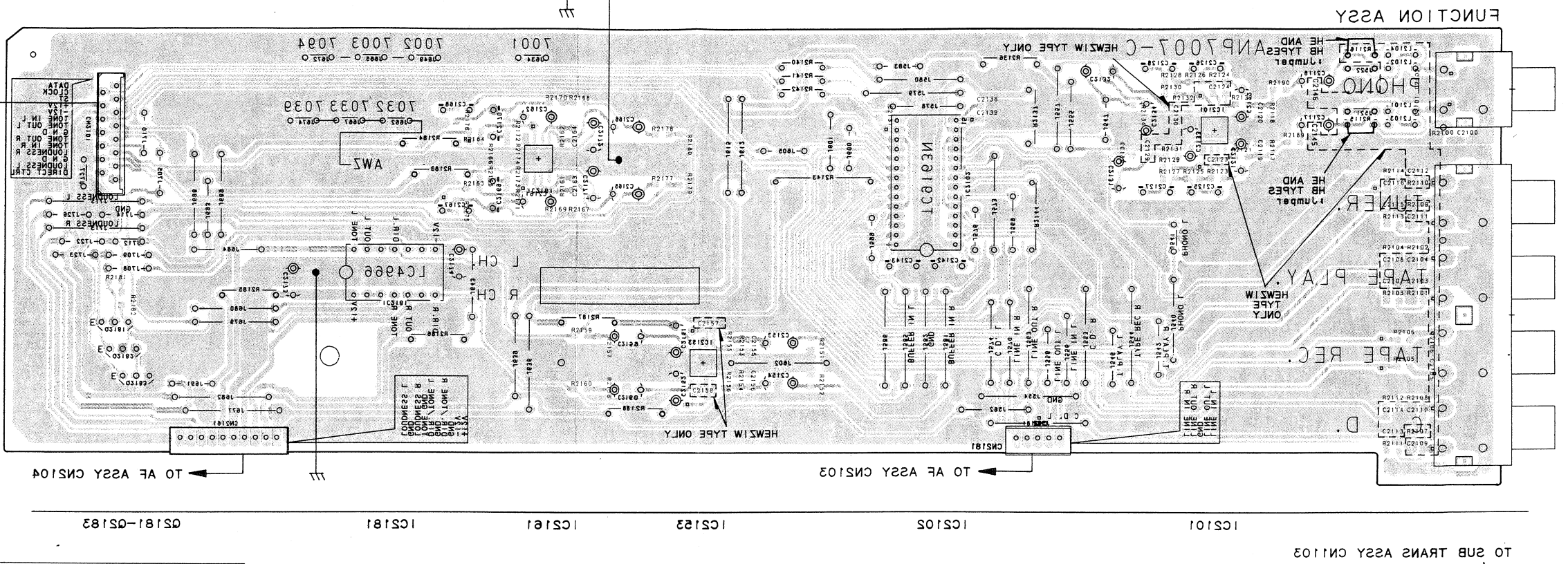
FUNCTION ASSY,
 FRONT ASSY,
 SP OUT ASSY
SCH-3

• This diagram is viewed from the mounted parts side.



• This diagram is viewed from the foil side.

PCB-5

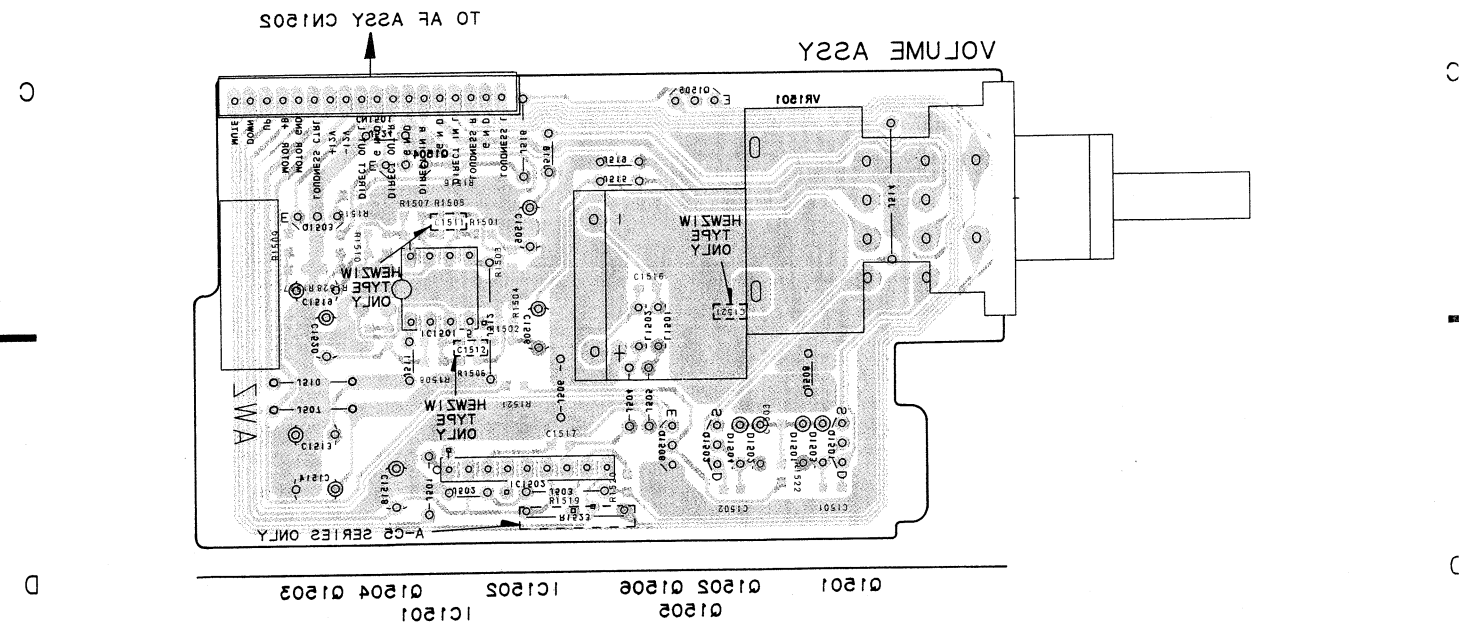
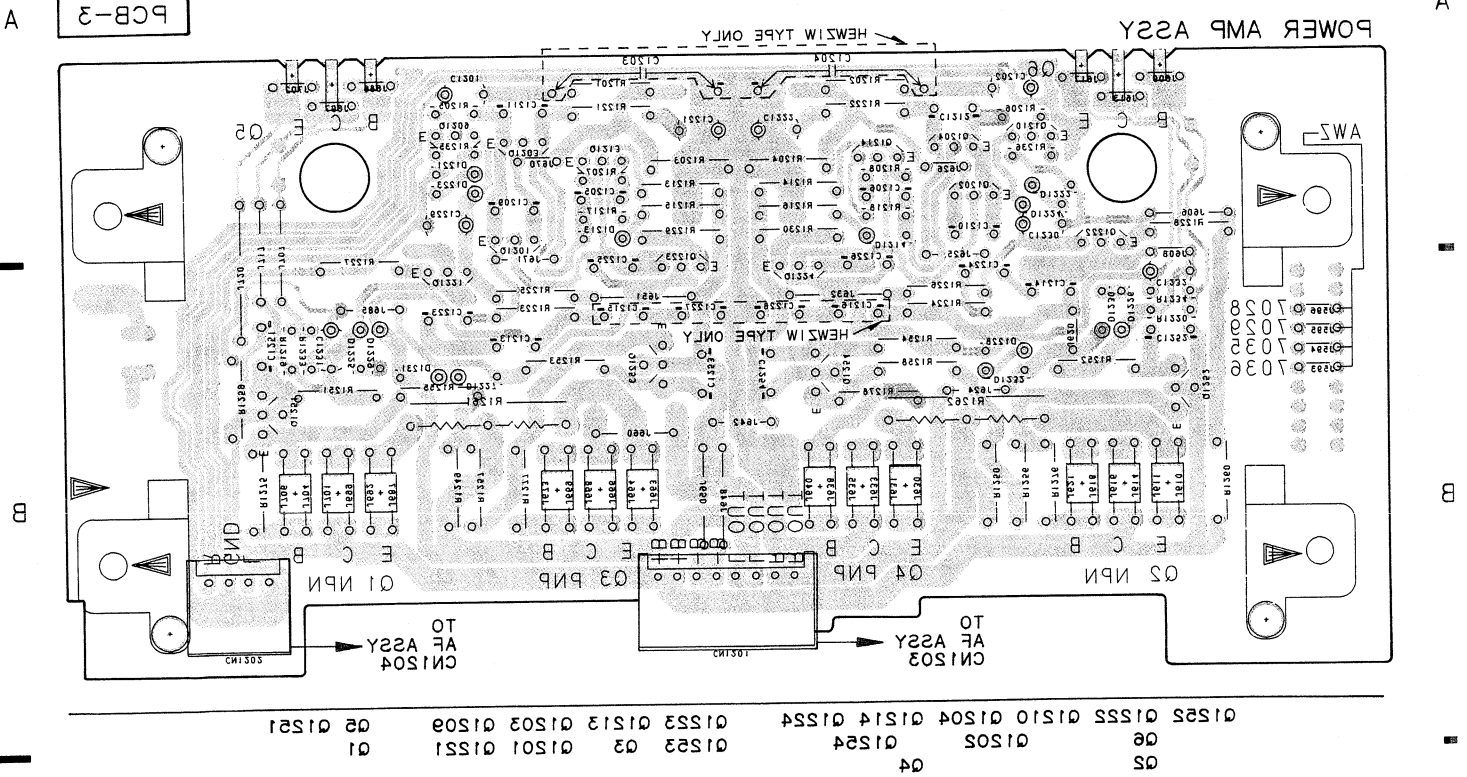


Q1906
Q1907
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Q1909
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Q1911
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Q1913
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Q1911
Q1912
Q1913
Q1914
Q1915

IC5401
IC5402
IC5403
IC5404
IC5405
IC5406
IC5407
IC5408
IC5409
IC5410
IC5411
IC5412
IC5413
IC5414
IC5415

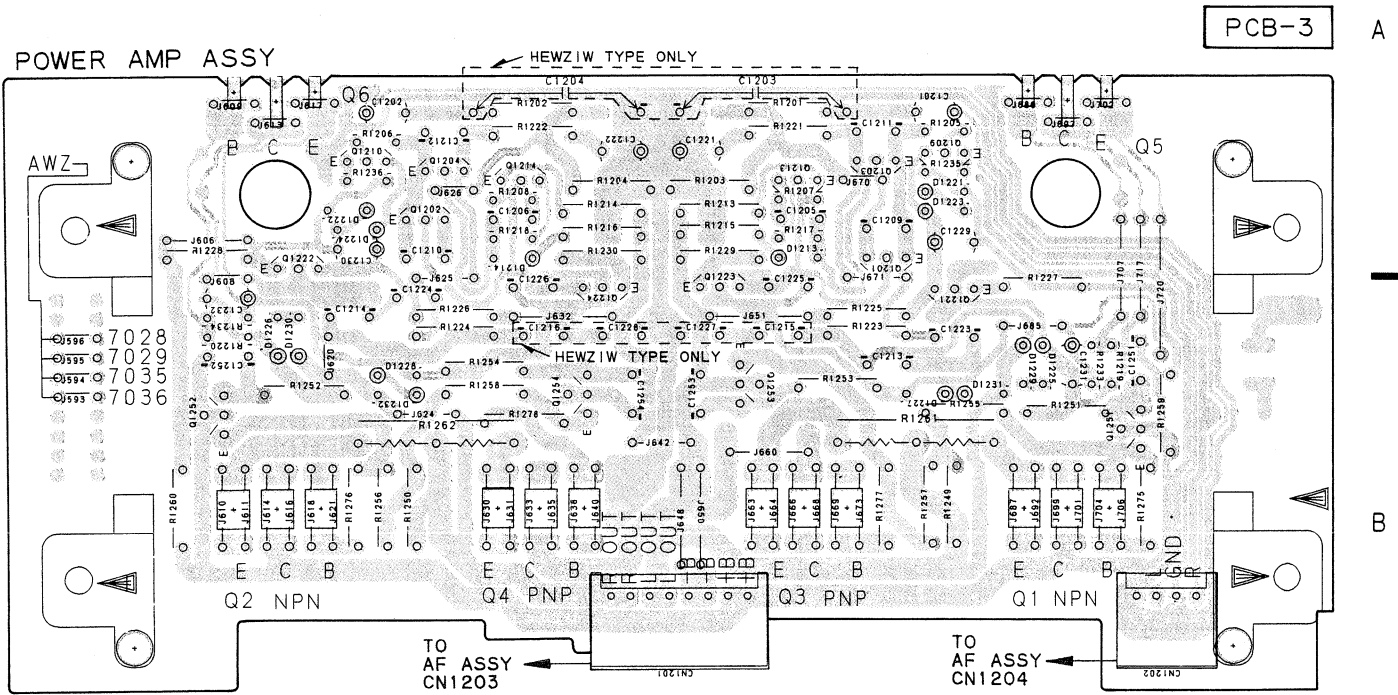
2.4 POWER AMP AND VOLUME ASSY

● This diagram is viewed from the foil side.

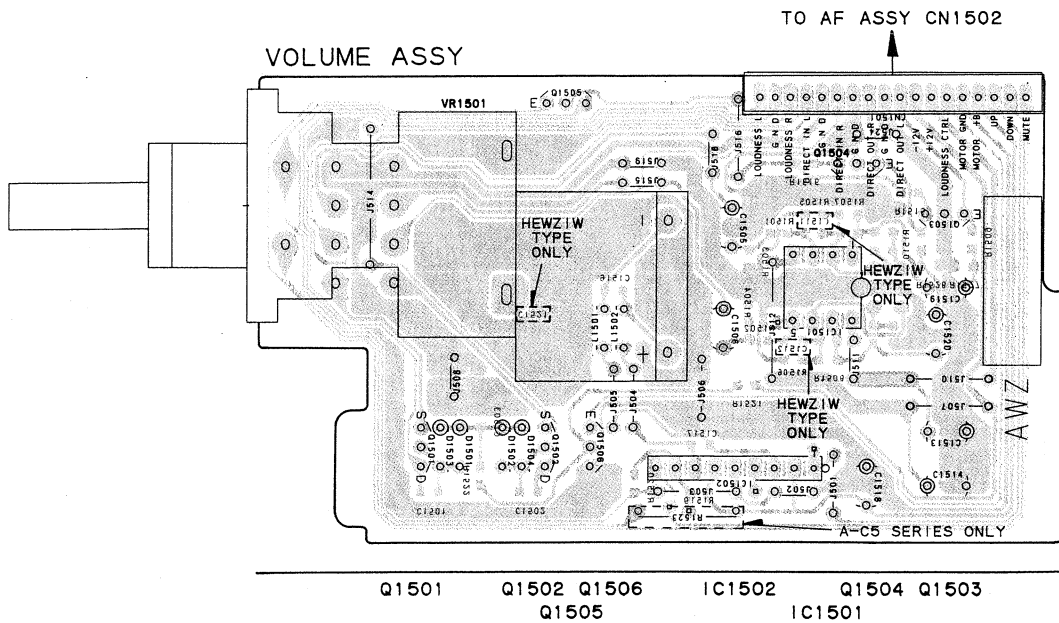


2.4 POWER AMP AND VOLUME ASSY

● This diagram is viewed from the mounted parts side.



- | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Q1252 | Q1222 | Q1210 | Q1204 | Q1214 | Q1224 | Q1223 | Q1213 | Q1203 | Q1209 | Q5 | Q1251 |
| | Q6 | | Q1202 | | Q1254 | | Q1253 | Q3 | Q1201 | Q1221 | Q1 |
| | Q2 | | | Q4 | | | | | | | |



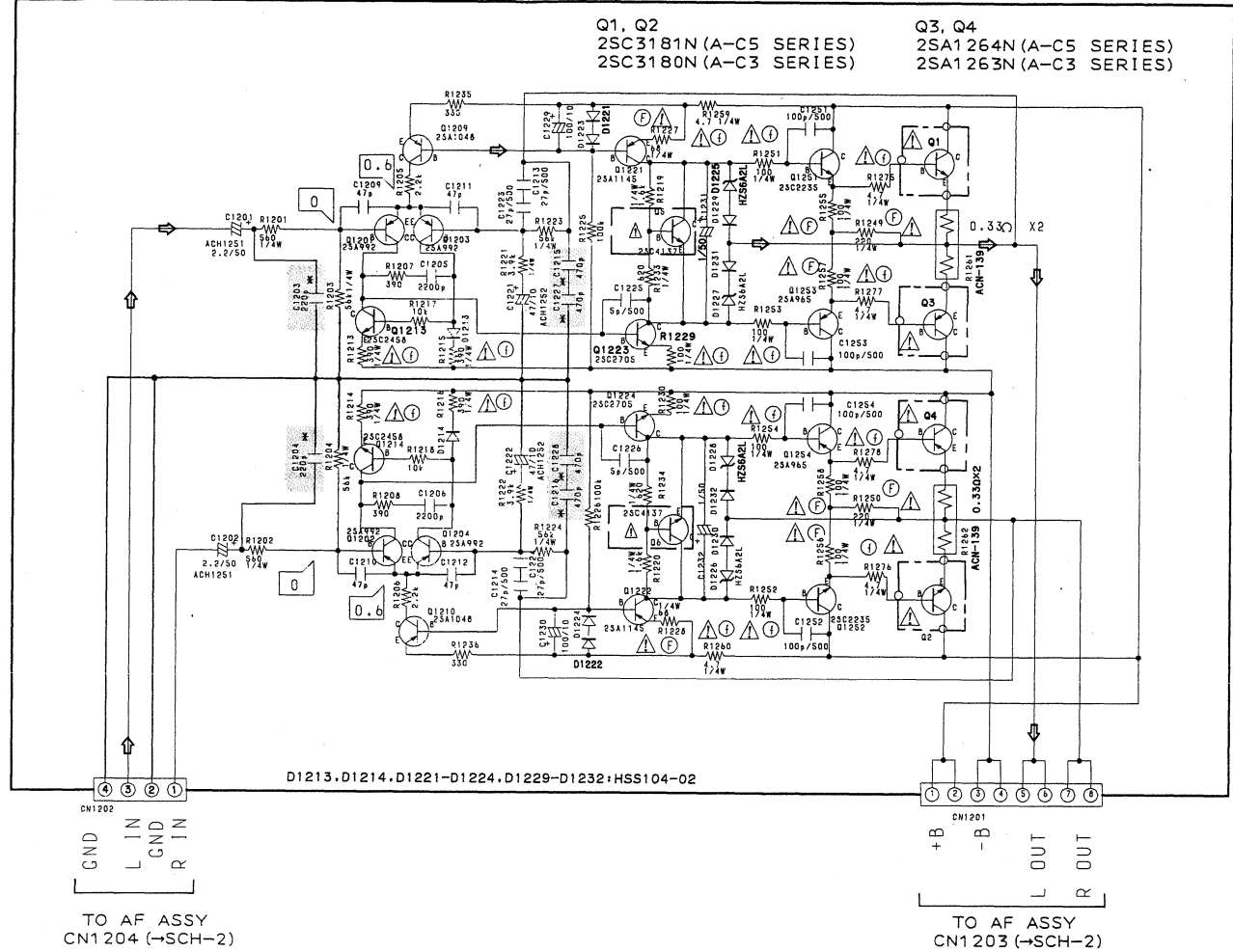
- | | | | | | |
|-------|-------|-------|--------|-------|-------|
| Q1501 | Q1502 | Q1506 | IC1502 | Q1504 | Q1503 |
| | Q1505 | | IC1501 | | |

POWER AMP ASSY (AWZ7029:A-C5/HEWZIW)
(AWZ7028:A-C5/HE AND A-C5/HB)
(AWZ7036:A-C3/HEWZIW)
(AWZ7035:A-C3/HE AND A-C3/HB)

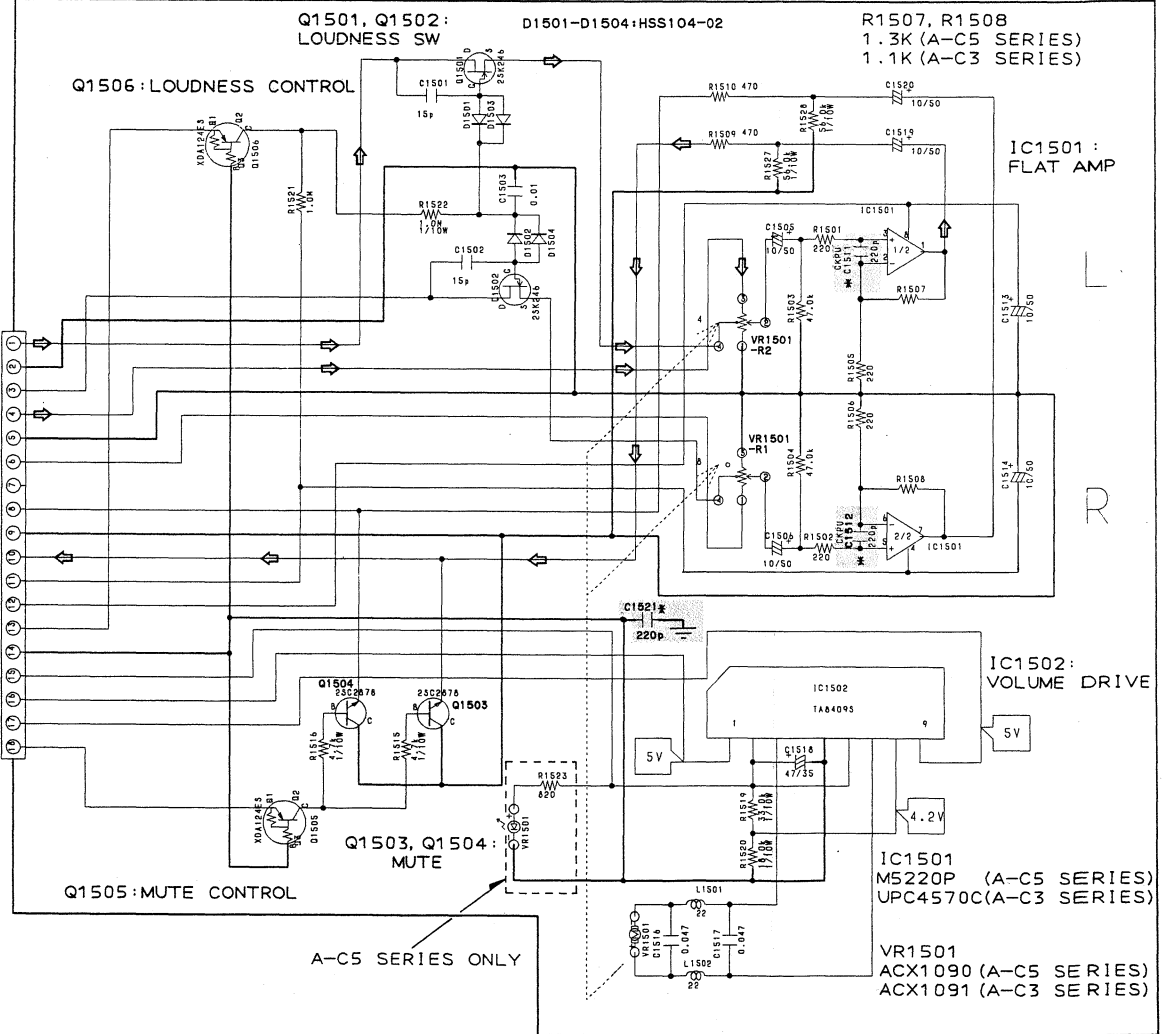
Q1, Q2 2SC3181N (A-C5 SERIES)
2SC3180N (A-C3 SERIES)
Q3, Q4 2SA1264N (A-C5 SERIES)
2SA1263N (A-C3 SERIES)

SCH-4

◇: Signal route
⊛: HEWZIW TYPE ONLY



VOLUME ASSY
(AWZ7005:A-C5/HEWZIW)
(AWZ7004:A-C5/HE AND A-C5/HB)
(AWZ7013:A-C3/HEWZIW)
(AWZ7012:A-C3/HE AND A-C3/HB)



POWER AMP ASSY,
VOLUME ASSY

SCH-4

SCH-4

3. 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%).

560Ω → 56 × 10¹ → 561 RD1/8PM $\boxed{561}J$
 47kΩ → 47 × 10³ → 473 RD1/4PS $\boxed{473}J$
 0.5Ω → 0R5 RN2H $\boxed{0R5}K$
 1Ω → 010 RS1P $\boxed{010}K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
 5.62kΩ → 562 × 10¹ → 5621 RN1/4PC $\boxed{5621}F$

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
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LIST OF ASSEMBLIES

NSP	AMP AF ASSY	AWK7003
	— HEAD PHONE ASSY	AWZ7001
	— TRANS CONNECT ASSY	AWZ7300
	— AF ASSY	AWZ7008
	SUB TRANS ASSY	AWZ7023
NSP	AMP FUKUGOU ASSY	AWM7001
	— VOLUME ASSY	AWZ7005
	— SP OUT ASSY	AWZ7019
	— POWER AMP ASSY	AWZ7029
	— FRONT ASSY	AWZ7031
	— FUNCTION ASSY	AWZ7033

HEAD PHONE ASSY

RESISTORS	
R1291, R1292	R S2LMF331J
Other Resistors	RD1/8PM $\square\square\square J$

OTHERS	
JACK	AKN1010

TRANS CONNECT ASSY

SEMICONDUCTORS	
IC1116, IC1117, IC1120, IC1121	ICP-N50

CAPACITORS	
C1124 (0.01/150V)	ACG1005

RESISTORS	
Other Resistors	RD1/4PM $\square\square\square J$

AF ASSY

SEMICONDUCTORS	
IC1118, IC1119	ICP-N10
IC5001	NJM4558DXP
IC1111, IC1113	NJM78M12FAS

IC1115	NJM78M56FAS
IC1112, IC1114	NJM79M12FA
Q1254, Q1259, Q1260	2SA1048
Q1251—Q1253, Q1255—Q1258	2SC2458
Q5001—Q5003	XDA124ES
Q5004—Q5007	XDC124ES
D1253, D1254, D1256, D1257, D5004	HSS104-02
D5008, D5009	HSS104-02
D1111	RBV602
D5007	RD5.6ESB1
D1116	RD6.2ESB
D5006	RD6.8ESB1
D5005	RD9.1ESB1
D1112—D1115, D1255	S5566
TH5001	NTH2218F

COILS AND FILTERS	
L1241, L1242 (0.7UH)	ATH1004
L1011—L1014	ATX1012

SWITCHES AND RELAYS	
RY1251, RY1252	ASR1035

CAPACITORS	
C1112 (10000/50V)	ACH1078
C1113 (2200/42V)	ACH1109
C1111 (10000/50V)	ACH1196
C1122, C1123	CEANPR47M100
C1252, C1272, C1273	CEAS010M50

C1261	CEAS100M50
C1115—C1118	CEAS101M25
C1114	CEAS102M35
C1119	CEAS222M16
C1120	CEAS471M25

C1271	CEAS471M6
C1241—C1244	CFTYA104J50
C2191—C2196	CKCYB391K50

RESISTORS	
R1243, R1244	RD1/2PMF100J
R1256	RD1/4PM124J
R1258	RD1/4PM243J
R1114	RD1/4PMF010J
R1113, R1241, R1242	RD1/4PMF100J

Mark No.	Description	Parts No.
R1111, R1112	Other Resistors	R S2LMFR22J
		RD1/8PM $\square\square\square J$
OTHERS		
	SCREW	ABA-298
	PIN JACK 4-P(TAPE2/AUX)	AKB1141
CN8106	JACK	AKN-207
	PCB BINDER	VEF1008

SUB TRANS ASSY

SEMICONDUCTORS	
Q1101	XDC143ES
D1103, D1104	HSS104-02
D1101, D1102	S5566

COILS AND FILTERS	
Δ L1001 (0.8/250V)	ATF-151

TRANSFORMERS	
Δ T1001 (1.6VA)	ATT1193

SWITCHES AND RELAYS	
Δ RY1001	ASR1027

CAPACITORS	
Δ C1001, C1002 (0.01/400V)	ACG1002
C1101 (0.01/150V)	ACG1005
C1102	CEAS102M25
C1103	CEAS4R7M50

RESISTORS	
R1101	RD1/2PM470J
R1103	RD1/4PM332J
	RD1/8PM $\square\square\square J$
	Other Resistors

OTHERS	
Δ CN1103	AC SOCKET 1-P 15P SOCKET
	AKP1034
	AKP1136

VOLUME ASSY

SEMICONDUCTORS	
IC1501	M5220P
IC1502	TA8409S
Q1503, Q1504	2SC2878
Q1501, Q1502	2SK246
Q1505, Q1506	XDA124ES

D1501—D1504	HSS104-02
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COILS AND FILTERS	
L1501, L1502	LAU220K

CAPACITORS	
C1511, C1512, C1521	CCSQCH221J50
C1501, C1502	CCSQSL150J50
C1505, C1506, C1513, C1514	CEAS100M50
C1519, C1520	CEAS100M50
C1518	CEAS470M35

C1503	CKSQYB103K50
C1516, C1517	CKSQYF473Z50

Mark No.	Description	Parts No.
RESISTORS		
R1523		RS1PMF821J
VR1501 (50K)	Other Resistors	ACX1090
		RS1/10S $\square\square\square J$

SP OUT ASSY

COILS AND FILTERS	
L1281, L1282 (1UH)	ATH-133

CAPACITORS	
C1283, C1284	CQMA273J50

RESISTORS	
R1281, R1282	RD1/2PMF101J

OTHERS	
	SPEAKER TERMINAL 4-P
	AKE1013

POWER AMP ASSY

SEMICONDUCTORS	
Q1209, Q1210	2SA1048
Q1221, Q1222	2SA1145
Q1253, Q1254	2SA965
Q1201—Q1204	2SA992
Q1251, Q1252	2SC2235
Q1213, Q1214	2SC2458
Q1223, Q1224	2SC2705
D1213, D1214, D1221—D1224	HSS104-02
D1229—D1232	HSS104-02
D1225—D1228	HZS6A2L

CAPACITORS	
C1201, C1202 (2.2/50V)	ACH1251
C1221, C1222 (4.7/10V)	ACH1252
C1225, C1226	CCCSL050C500
C1251—C1254	CCCSL101K500
C1213, C1214, C1223, C1224	CCCSL270K500

C1209—C1212	CCCSL470J50
C1203, C1204	CCDSL221J50
C1231, C1232	CEAS010M50
C1229, C1230	CEAS101M10
C1205, C1206	CKCYB222K50
C1215, C1216, C1227, C1228	CKCYB471K50

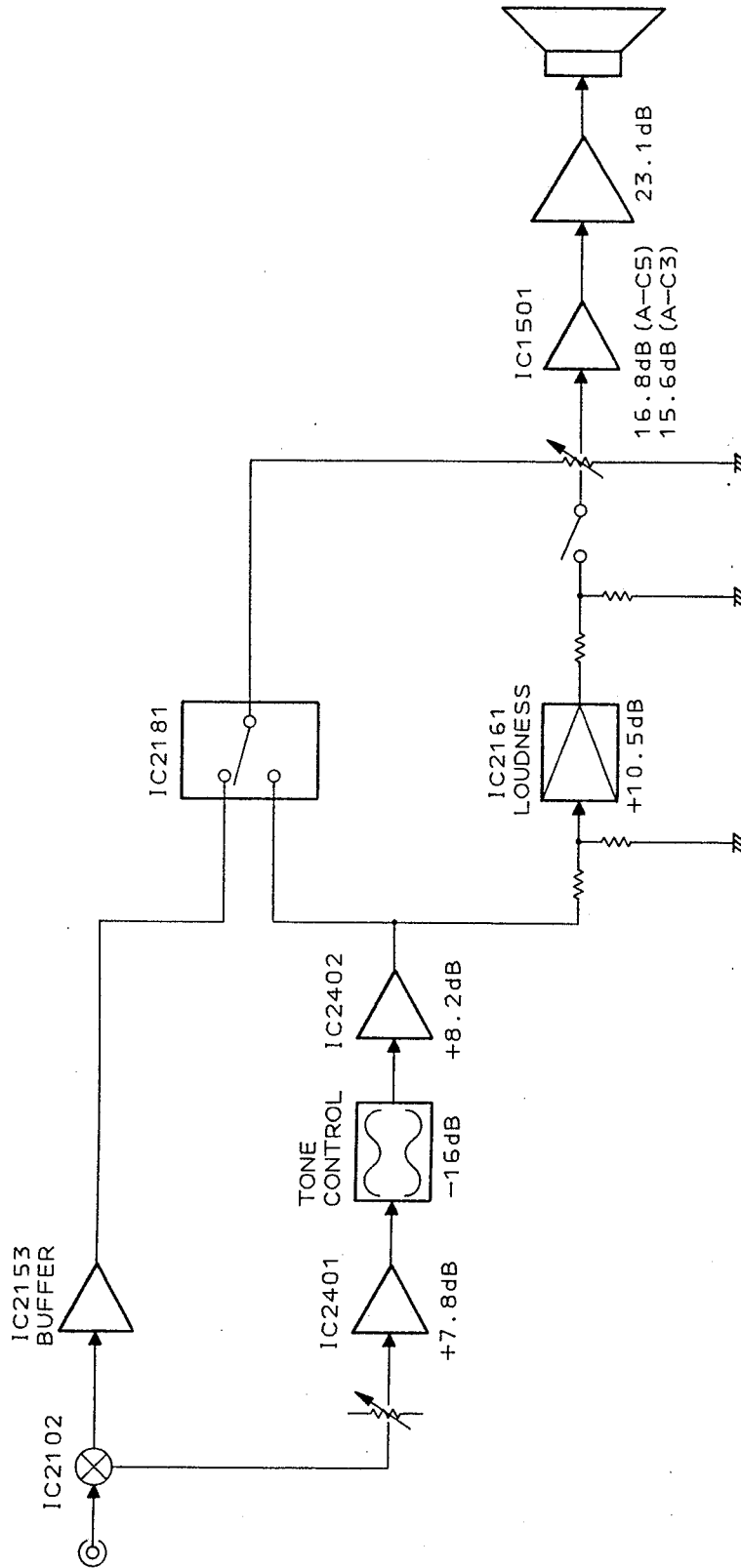
RESISTORS	
R1261, R1262 (0.33/5W)	ACN-139
R1201, R1202	RD1/4PM561J
R1203, R1204, R1223, R1224	RD1/4PM563J
R1255—R1258	RD1/4PMF101J
R1249, R1250	RD1/4PMF221J

Δ R1227, R1228	RD1/4PMF680J
R1221, R1222	RD1/4PM392J
Δ R1229, R1230, R1251—R1254	RFA1/4PS101J
Δ R1213—R1216	RFA1/4PS391J
Δ R1259, R1260, R1275—R1278	RFA1/4PS4R7J

R1219, R1220	RN1/4PC1601F
R1233, R1234	RN1/4PC6200F
Other Resistors	RD1/8PM $\square\square\square J$

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
FRONT ASSY			COILS AND FILTERS		
SEMICONDUCTORS			L2101-L2104		LAU221K
IC2401, IC2402		NJM4558M-D	CAPACITORS		
IC1901		PD6130A	C2137-C2139		CCSQCH101J50
Q1902-Q1905, Q1908-Q1914		XDC124EK	C2119, C2120		CCSQCH151J50
Q1901, Q1906, Q1907		XDC143EK	C2155-C2158		CCSQCH221J50
D1921		1SS181	C2145, C2146		CCSQCH390J50
			C2103-C2116, C2123, C2124		CCSQCH391J50
D1916-D1920		1SS184			
D1903-D1909		AEL1144	C2101, C2102		CCSQCH470J50
D1902		AEL1148	C2163, C2164		CCSQL390J50
D1901, D1910, D1913		HSS104-02	C2117, C2118, C2131, C2132		CEAS100M50
D1912		RD5.1ESB	C2151-C2154, C2159-C2162		CEAS100M50
			C2171-C2174		CEAS100M50
D1914, D1915		RD6.2ESB			
D1911		RD7.5ESB	C2133, C2134		CEAS101M25
COILS AND FILTERS			C2165, C2166		CEAS470M25
L1901		LAU101K	C2121, C2122		CEAS471M6
SWITCHES AND RELAYS			C2125, C2126		CFTXA243J50
S1901-S1908		ASG1034	C2127, C2128		CFTXA823J50
CAPACITORS			C2142, C2143		CKCYX104M16
C1909		ACH1246	C2129, C2130		CKSQYB222K50
C2423, C2424		CCSQCH181J50	C2100		CKSQYF473Z50
C2407, C2408, C2417, C2418		CEAS100M50	C2167, C2168		CQMA273J50
C2406, C2419, C2420		CEAS470M25	C2169, C2170		CQMA393J50
C2401, C2402		CEJA100M16	RESISTORS		
C1901, C1908		CEJA100M50	△ R2136, R2137		RD1/4PMF101J
C1903, C2405		CEJA470M16	R2183-R2188		RD1/4PMF101J
C2409, C2410		CFTXA153J50	R2143, R2144		RD1/8PM101J
C2415, C2416		CFTXA183J50	R2140-R2142		RD1/8PM102J
C2411, C2412		CFTXA823J50	R2115, R2116		RD1/8PM122J
				Other Resistors	RS1/10S□□□J
C1904		CKPUYF223Z25	OTHERS		
C1902, C1905-C1907, C1910-C1916		CKSQYB103K50	CN8509	PIN JACK(2P)(PHONO)	AKB1100
C2403, C2404, C2421, C2422		CKSQYB681K50	CN8508	PIN JACK(8P) (TAPEI, TUNER, CD)	AKB1127
C2413, C2414		CQMA332J50	CN2101	15P SOCKET PCB BINDER	AKP1129 VEF1008
RESISTORS					
R2431, R2432		RD1/4PM390J			
R1919		RD1/8PM102J			
R2421		RD1/8PM104J			
R2411		RD1/8PM154J			
R2418		RD1/8PM222J			
R2409, R2410		RD1/8PM223J			
R1921		RD1/8PM472J			
R2415		RD1/8PM683J			
VR2402, VR2403 (100K)		ACS1032			
VR2401		ACS1033			
Other Resistors		RS1/10S□□□J			
OTHERS					
CN1901, CN1902	15P SOCKET	AKP1130			
X1901	CERAMIC OSCILLATOR	ASS1022			
	REMOTE RECEIVER UNIT	AXX1033			
FUNCTION ASSY					
SEMICONDUCTORS					
IC2181		LC4966			
IC2161		NJM4558M-D			
IC2102		TC9163N			
IC2101, IC2153		UPC4570G2			
Q2183		XDA143ES			
Q2181, Q2182		XDC124ES			

4. BLOCK DIAGRAM

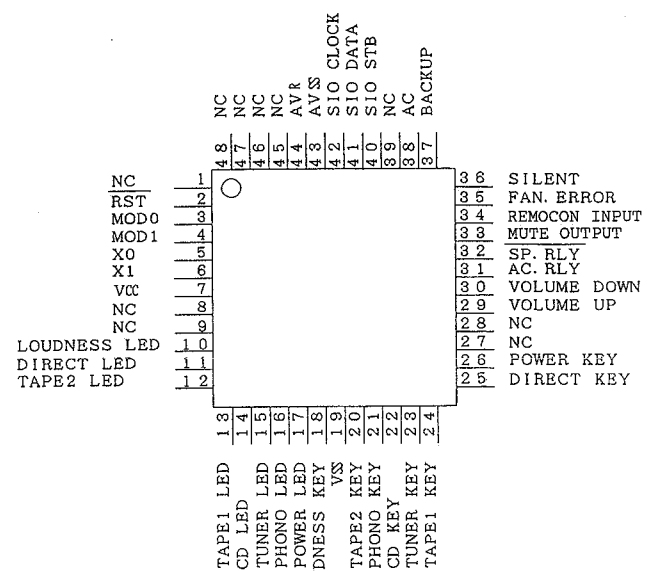


5. IC INFORMATION

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

- PD6130A (IC1901)
- System control microcomputer

● Pin Assignment



(Top view)

● Pin Function

I : CMOS input UN : Nch open drain output with pull up
 O : CMOS Out N : Nch open drain output
 HI : Hysteresis input

NO.	Name	I/O	Function	PORT
1	AVCC	—	Pull up	—
2	RST	HI/UN	Reset	Input
3	MOD0	I	CONNECT to VSS	
4	MOD1	I		
5	X0	—	OSCILLATOR	—
6	X1	—		
7	VCC	—	+5V POWER SUPPLY	—
8	X0A	—	NC	—
9	X1A	—	GND	—
10	P27	O	LOUDNESS ON/OFF	
11	P26	O	DIRECT ON/OFF	
12	P25	O	LED TAPE2	
13	P24	O	TAPE1	
14	P23	O	CD	
15	P22	O	TUNER	
16	P21	O	PHONO	
17	P20	O	POWER	
18	P17	I/O	MAIN UNIT key LOUDNESS	Input
19	VSS	—	GND	—
20	P16	I/O	MAIN UNIT key TAPE2	Input
21	P15	I/O	PHONO	Input
22	P14	I/O	CD	Input
23	P13	I/O	TUNER	Input
24	P12	I/O	TAPE1	Input

NO.	Name	I/O	Function	PORT
25	P11	I/O	DIRECT	Input
26	P10	I/O	POWER	Input
27	P07	I/O	NC	Out
28	P06	I/O	NC	Out
29	P05	I/O	VOLUME UP (TA8409)	Out
30	P04	I/O	VOLUME DOWN	Out
31	P03	I/O	AC RLY	Out
32	P02	I/O	SP RLY	Out
33	P01	I/O	MUTE	Out
34	P00	I/O	REMOCON SIGNAL	Input
35	P37/BZ	HI/O	FAN. ERROR	Input
36	P36/INT2	HI/O	SILENT	Input
37	P35/INT1	HI/O	BACKUP	Input
38	P34/TO/INT0	HI/O	AC	Input
39	P33/EC/SCO	HI/O	NC	Out
40	P32/SI	HI/O	SIO STB	Out
41	P31/S0	HI/O	DATA	Out
42	P30/SCK	HI/O	CLOCK	Out
43	AVSS	—	NC	—
44	AVR	—	NC	—
45	P43/AN3	N	NC	
46	P42/AN2	N	NC	
47	P41/AN1	N	NC	
48	P40/AN0	N	NC	

6. FOR A—C5/HE, HB, A—C3/HEWZIW, HE AND HB TYPES

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.

A—C5/HE, HB, A—C3/HEWZIW, HE, HB and A—C5/HEWZIW have the same construction except for the following:

Mark	Symbol & Description	Part No.						Remarks
		A—C5			A—C3			
		HEWZIW	HE	HB	HEWZIW	HE	HB	
NSP	AMP AF assembly	AWK7003	AWK7002	AWK7001	AWK7025	AWK7024	AWK7023	
NSP	HEAD PHONE assembly	AWZ7001	AWZ7000	AWZ7000	AWZ7010	AWZ7181	AWZ7181	
NSP	TRANS CONNECT assembly	AWZ7300	AWZ7299	AWZ7299	AWZ7003	AWZ7011	AWZ7011	
	AF assembly	AWZ7008	AWZ7007	AWZ7007	AWZ7016	AWZ7015	AWZ7015	
	SUB TRANS assembly	AWZ7023	AWZ7022	AWZ7021	AWZ7023	AWZ7022	AWZ7021	
	AMP FUKUGOU assembly	AWM7001	AWM7094	AWM7094	AWM7003	AWM7002	AWM7002	
NSP	VOLUME assembly	AWZ7005	AWZ7004	AWZ7004	AWZ7013	AWZ7012	AWZ7012	
	SP OUT assembly	AWZ7019	AWZ7277	AWZ7277	AWZ7034	AWZ7193	AWZ7193	
	POWER AMP assembly	AWZ7029	AWZ7028	AWZ7028	AWZ7036	AWZ7035	AWZ7035	
	FRONT assembly	AWZ7031	AWZ7030	AWZ7030	AWZ7038	AWZ7037	AWZ7037	
	FUNCTION assembly	AWZ7033	AWZ7032	AWZ7032	AWZ7039	AWZ7032	AWZ7032	
Δ	Power transformer (T8005)	ATS7007	ATS7007	ATS7007	ATS7005	ATS7005	ATS7005	
Δ	AC power cord	ADG1049	ADG1049	ADG1144	ADG1049	ADG1049	ADG1144	
Δ	Fuse (T1.6A/250V, FU1001)	AEK—510	AEK—510	AEK—510	.....	.....	.....
Δ	Fuse (T800mA/250V, FU1001)	.....	.....	.....	AEK—507	AEK—507	AEK—507	
Δ	Transistor (Q3, Q4)	2SA1264N	2SA1264N	2SA1264N	2SA1263N	2SA1263N	2SA1263N	
Δ	Transistor (Q1, Q2)	2SC3181N	2SC3181N	2SC3181N	2SC3180N	2SC3180N	2SC3180N	
	Fan motor	AXM1019	AXM1019	AXM1019	.....	.....	.....
NSP	Flexible cable	AAD1130	AAD1130	AAD1130	AAD1129	AAD1129	AAD1129	
	Heat sink	ANH7003	ANH7003	ANH7003	ANH7002	ANH7002	ANH7002	
	Front panel	AMB7045	AMB7045	AMB7045	AMB7046	AMB7046	AMB7046	
	Rear panel	ANC7062	ANC7062	ANC7062	ANC7067	ANC7067	ANC7067	
	Chassis cover	.....	.....	.....	AMR7009	AMR7009	AMR7009	*
	Volume assy	AAB7009	AAB7009	AAB7009	.....	.....	.....
	Volume button	.....	.....	.....	AAB7010	AAB7010	AAB7010	For Volume assy
	Power button	AAD7013	AAD7013	AAD7013	AAD7014	AAD7014	AAD7014	
	Screw	BPZ45P100FZK	BPZ45P100FZK	BPZ45P100FZK	.....	.....	.....
	Screw	.....	.....	.....	ABA1101	ABA1101	ABA1101	*
	Binder	.....	.....	AEC—093	.....	.....	AEC—093	
	Packing case	AHD7009	AHD7009	AHD7009	AHD7012	AHD7012	AHD7012	
	Operating instructions (German, Italian)	ARC7004	.....	.....	ARC7004	.....	.....

Note: * : Refer to page 4.

Mark	Symbol & Description	Part No.						Remarks
		A-C5			A-C3			
		HEWZIW	HE	HB	HEWZIW	HE	HB	
	Operating instructions (English, French, German, Italian, Dutch, Swedish, Spanish, Portuguese)	.....	ARE7009	.....	.....	ARE7009	.....
	Operating instructions (English)	.....	.....	ARB7004	.....	.....	ARB7004	

HEAD PHONE ASSEMBLY

● Although AWZ7000, AWZ7010, AWZ7181 and AWZ7001 are different in part number, they consist of the same components.

TRANS CONNECT ASSEMBLY

AWZ7299, AWZ7003, AWZ7011 and AWZ7300 have the same construction except for the following:

Mark	Symbol & Description	Part No.				Remarks
		AWZ7300	AWZ7299	AWZ7003	AWZ7011	
	C1124 (0.01/150V)	ACG1005	.....	ACG1005	.....
	R999	RD1/4PMF4R7J	RD1/4PMF4R7J	RD1/4PMF4R7J	.....

AF ASSEMBLY

AWZ7007, AWZ7016, AWZ7015 and AWZ7008 have the same construction except for the following:

Mark	Symbol & Description	Part No.				Remarks
		AWZ7008	AWZ7007	AWZ7016	AWZ7015	
	IC5001	NJM4558DXP	NJM4558DXP	.....	.....
	Q5001 - Q5003	XDA124ES	XDA124ES	.....	.....
	Q5004 - Q5007	XDC124ES	XDC124ES	.....	.....
	D1111	RBV602	RBV602	D3SBA20(A)	D3SBA20(A)	
	D5004, D5008, D5009	HSS104-02	HSS104-02	.....	.....
	D5005	RD9.1ESB1	RD9.1ESB1	.....	.....
	D5006	RD6.8ESB1	RD6.8ESB1	.....	.....
	D5007	RD5.6ESB1	RD5.6ESB1	.....	.....
	TH5001	NTH2218F	NTH2218F	.....	.....
	C1111 (10000μ/50V)	ACH1196	ACH1196	.....	.....
	C1111, C1112 (5600μ/50V)	.....	.....	ACH1145	ACH1145	
	C1112 (10000μ/50V)	ACH1078	ACH1078	.....	.....
	C1113 (2200μ/42V)	ACH1109	ACH1109	.....	.....
	C1113	.....	.....	CEAS102M35	CEAS102M35	
	C1114	CEAS102M35	CEAS102M35	CEAS471M35	CEAS471M35	
	C2191 - C2196	CKCYB391K50	.....	CKCYB391K50	.....

Mark	Symbol & Description	Part No.				Remarks
		AWZ7008	AWZ7007	AWZ7016	AWZ7015	
	R1113	RD1/4PMF100J	RD1/4PMF100J	RD1/4PMF010J	RD1/4PMF010J	
	R1261	RD1/8PM432J	RD1/8PM432J	RD1/8PM152J	RD1/8PM152J	
	R1295,R1296	RD1/8PM222J	RD1/8PM102J	RD1/8PM222J	RD1/8PM102J	
	R5005	RD1/8PM472J	RD1/8PM472J	.....	.....
	R5007-R5010,R5012	RD1/8PM103J	RD1/8PM103J	.....	.....
	R5011	RD1/8PM241J	RD1/8PM241J	.....	.....
	L1014	ATX1012	ATX1012	.....	.....
	PCB Binder	VEF1008	VEF1008	.....	.....

SUB TRANS ASSEMBLY

AWZ7022, AWZ7021 and AWZ7023 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		AWZ7023	AWZ7022	AWZ7021	
△	AC Socket (1P)	AKP1034	AKP1034	AKP1035	

VOLUME ASSEMBLY

AWZ7004, AWZ7013, AWZ7012 and AWZ7005 have the same construction except for the following:

Mark	Symbol & Description	Part No.				Remarks
		AWZ7005	AWZ7004	AWZ7013	AWZ7012	
	IC1501	M5220P	M5220P	UPC4570C	UPC4570C	
	C1511,C1512,C1521	CCSQCH221J50	.....	CCSQCH221J50	.....
	VR1501	ACX1090	ACX1090	ACX1091	ACX1091	
	R1507,R1508	RS1/10S132J	RS1/10S132J	RS1/10S112J	RS1/10S112J	
	R1523	RS1PMF821J	RS1PMF821J	.....	.....

SP OUT ASSEMBLY

AWZ7277, AWZ7034, AWZ7193 and AWZ7019 have the same construction except for the following:

Mark	Symbol & Description	Part No.				Remarks
		AWZ7019	AWZ7277	AWZ7034	AWZ7193	
	L1281,L1282	ATH-133	.....	ATH-133	.....
	C1283,C1284	CQMA273J50	.....	CQMA273J50	.....
	R1281,R1282	RD1/2PMF101J	.....	RD1/2PMF101J	.....

POWER AMP ASSEMBLY

AWZ7028, AWZ7036, AWZ7035 and AWZ7029 have the same construction except for the following:

Mark	Symbol & Description	Part No.				Remarks
		AWZ7029	AWZ7028	AWZ7036	AWZ7035	
	C1203,C1204 C1215,C1216,1227,C1228	CCDSL221J50 CKCYB471K50	..... .....	CCDSL221J50 CKCYB471K50	..... .....

FRONT ASSEMBLY

AWZ7030, AWZ7038, AWZ7037 and AWZ7031 have the same construction except for the following:

Mark	Symbol & Description	Part No.				Remarks
		AWZ7031	AWZ7030	AWZ7038	AWZ7037	
	Q1906	XDC143EK	XDC143EK	.....	.....
	D1915	RD6.2ESB	RD6.2ESB	.....	.....
	C1907 C1908	CKSQYB103K50 CEJA100M50	CKSQYB103K50 CEJA100M50	..... .....	..... .....
	R1925	RS1/10S222J	RS1/10S222J	RS1/10S000J	RS1/10S000J	

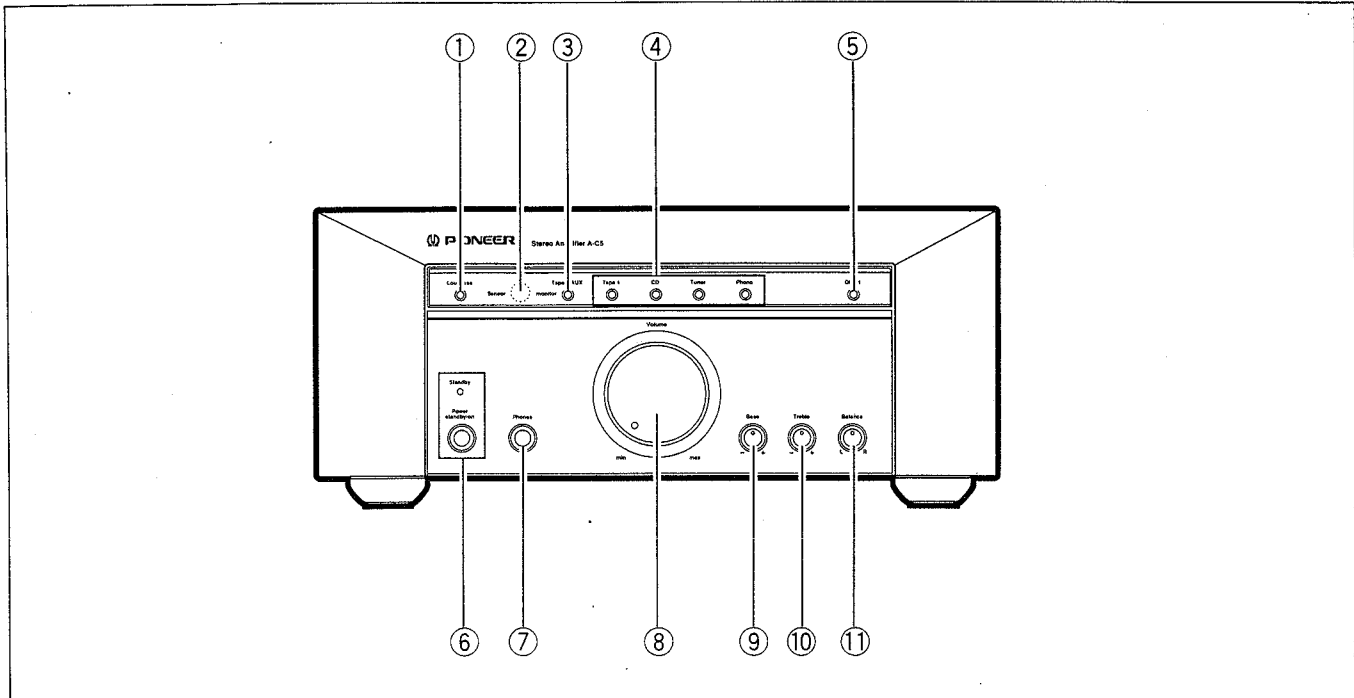
FUNCTION ASSEMBLY

AWZ7032 and AWZ7033 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7033	AWZ7032	
	L2101 -L2104	LAU221K	.....
	C2101,C2102	CCSQCH470J50	.....
	C2103 -C2116,C2123,C2124	CCSQCH391J50	.....
	C2129,C2130	CKSQYB222K50	.....
	C2145,C2146	CCSQCH390J50	.....
	C2157,C2158	CCSQCH221J50	.....
	R2105,R2106	RS1/10S222J	RS1/10S102J	
	R2115,R2116	RD1/8PM122J	.....
	R2121,R2122	RD1/10S000J	RS1/10S181J	
	R2159,R2160	RD1/10S221J	RS1/10S470J	
	R2189,R2190	RD1/10S471J	RS1/10S000J	

● Although AWZ7039 and AWZ7033 are different in part number, they consist of the same components.

7. PANEL FACILITIES



① **Loudness button**

When listening at low sound levels, press this button to boost low and high ranges, giving the overall sound a greater impact. When ON, the button indicator lamp lights. Normally, leave in the OFF position.

② **Remote control signal sensor**

③ **Tape 2/AUX monitor button**

Set to ON when playing a second tape deck or other component (DAT, etc.).

④ **Input selector buttons**

Use to select the component to be played. The indicator lamp of the selected component will light.

⑤ **Direct button**

When this button is pressed ON, sound from the selected component will be played back without being processed through the tone and balance controls. When ON, the button indicator lamp lights.

⑥ **Power switch / standby indicator**

This is the switch for electric power.

on: When set to the on position, power is supplied and the unit becomes operational.

Standby: When set to the standby position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

When the standby indicator lights, the unit is in STANDBY.

⑦ **Headphone jack**

Use to connect headphones for private listening. When headphones are connected, sound to speakers is disconnected.

⑧ **Volume control**

⑨ **Bass tone control knob**

Use to adjust the bass tone. The center position is the default position. When the knob is rotated to the right, bass frequencies are boosted, and when rotated to the left, the bass frequencies are diminished.

- This control does not operate when the direct button is ON.

⑩ **Treble tone control knob**

Use to adjust the treble tone. The center position is the default position. When the knob is rotated to the right, treble frequencies are boosted, and when rotated to the left, the treble frequencies are diminished.

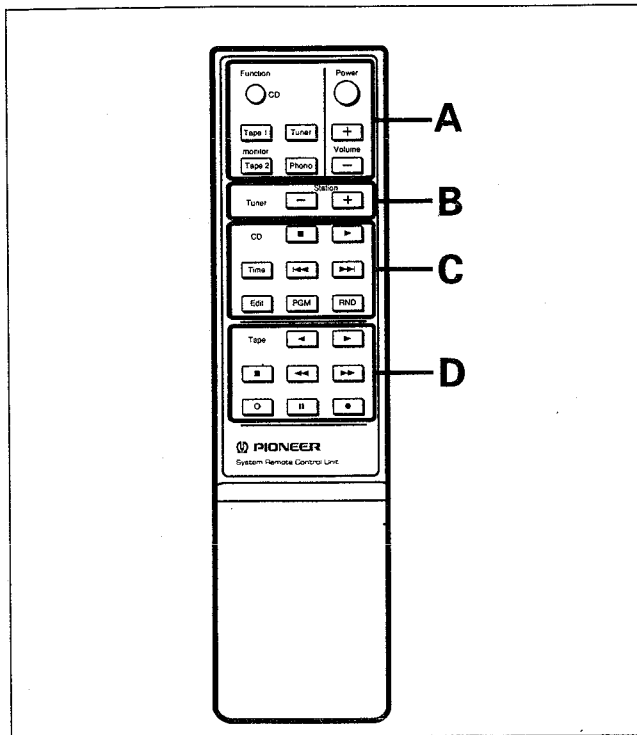
- This control does not operate when the direct button is ON.

⑪ **Balance control knob**

Use to adjust the right-left speaker balance. Rotate the knob to the right to increase the sound from the right speaker while diminishing the sound from the left speaker. Rotate the knob to the left to increase the sound from the left speaker while diminishing the sound from the right speaker.

- This control does not operate when the direct button is ON.

REMOTE CONTROL UNIT OPERATION



A. Amplifier operation buttons

- Function buttons:** Operate the same as the input selector buttons on the main unit.
- Power button:** Use to switch the amplifier's power between on and standby.
- Volume buttons:** Use to adjust the volume level.

B. Tuner (F-C5RDS/F-C3) operation buttons (U.K. model only)

- Station buttons:** Use to call out broadcast stations.

C. CD Player (PD-C5/PD-C3) operation buttons (U.K. model only)

- Stop button:** Press to stop playback.
- Play button:** Press to begin play.
- Track search buttons:**
 - ◀◀: When this button is pressed, play returns to the beginning of the currently playing track; when pressed repeatedly, play returns to previous tracks.
 - ▶▶: When this button is pressed, play advances to the beginning of the next track; when pressed repeatedly, play advances to subsequent tracks.
- Time button:** When this button is pressed, The CD player's display section switches as follows:

Elapsed time of currently playing track → Remaining time of currently playing track (not displayed for tracks 30 and above)

↑ ↓

Total time and total number of tracks on disk. ← Remaining time on disc (or programmed tracks); does not display during random playback

- "AL" is displayed.

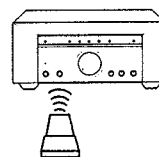
- Program button:** Use to program disc tracks in any desired order of playback.
- Random button:** When this button is pressed, the CD player plays back all tracks on the disc in random order. When pressed during program playback, the program is canceled and random playback begins.
- Edit button:** Used for auto program edit (see page 12).

D. Tape deck (T-C3) operation buttons (U.K. model only)

- Playback buttons:** Press to begin playback in the indicated direction.
- Stop button:** Press to stop tape travel.
- Fast forward buttons:** Press to fast forward the tape in the indicated direction. These buttons can also be used to perform music search (see tape deck's Operating Instructions).
- Recording muting button:** When this button is pressed, a four-second non-recorded interval is created, after which the tape deck enters the recording standby mode. When held depressed, a non-recorded interval is created for as long as the button is held depressed.
- Pause button:** Press to pause playback or recording. Press again to resume playback or recording.
- Recording button:** Press to set to the recording mode; then, press the play button to begin recording.

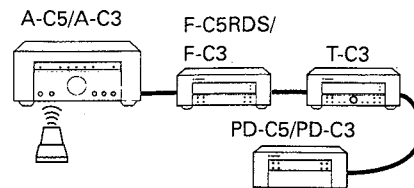
This unit's remote control unit can be used in one of the two following ways:

1. To operate the component itself



2. When this component is connected by system control cables to other Pioneer components (F-C5RDS/F-C3, T-C3, PD-C5/PD-C3), the remote control unit can be used for central system control.

(Aim the remote control unit at the amplifier's signal receiver to control all components.)



8. SPECIFICATIONS

Amplifier Section

Continuous Average Power Output is 40 watts* (A-C5) per channel, min., at 8 ohms from 20 Hertz to 20,000 Hertz with no more than 0.07 % total harmonic distortion.**

Continuous power output (DIN)

(both channels driven at 1 kHz)

A-C5 67 W + 67 W (T.H.D. 1 %, 4 Ω)
45 W + 45 W (T.H.D. 1 %, 8 Ω)

A-C3 35 W + 35 W (T.H.D. 1 %, 8 Ω)

Continuous power output **

(both channels driven, direct switch ON):

A-C5 40 W + 40 W (T.H.D. 0.07%, 20 Hz to 20 kHz, 8 Ω)

A-C3 30 W + 30 W (T.H.D. 0.07%, 20 Hz to 20 kHz, 8 Ω)

Continuous power output (RMS)

A-C5 60 W + 60 W (1 kHz, T.H.D. 10%, 8 Ω)

A-C3 45 W + 45 W (1 kHz, T.H.D. 10%, 8 Ω)

Input connectors (sensitivity/input impedance):

PHONO MM 2.8 mV/47 kΩ

CD, TUNER, TAPE 1, etc. 200 mV/47 kΩ

Output terminals (output level, impedance):

TAPE 1 REC, TAPE 2 AUX REC 200 mV/1 kΩ

Frequency response:

PHONO (MM) 20 Hz-20 kHz ± 0.3 dB

CD, TUNER, TAPE 1, etc. 2 Hz-160 kHz, $^{+0}_{-3}$ dB
(Direct switch ON)

Tone controls (at -30 dB):

BASS ±9 dB (100 Hz)

TREBLE ±9 dB (10 kHz)

Loudness control: (at -30 dB) 100 Hz/10 kHz (6 dB/4 dB)

S/N ratio (IHFA network, short circuit, Direct switch ON):

PHONO (MM) 85 dB

CD, TUNER, TAPE 1, etc. 105 dB

S/N ratio (DIN, continuous power/50 mW)

PHONO (MM) 69 dB/68 dB

CD, TUNER, TAPE 1, etc. 95 dB/73 dB

Power section, other

Power requirements:

U.S. model AC 120 V, 60 Hz

U.K. model AC 240 V, 50/60 Hz

Power consumption:

U.S. model 130 W (A-C5)

U.K. model 350 W (A-C5)

210 W (A-C3)

AC outlet unswitched: 1 (100 W)

External dimensions (W x H x D):

A-C5 (U.S. model) 260 x 110 x 358 mm
10-1/4 (W) x 4-5/16 (H) x 13-7/8 (D) in.

A-C5 (U.K. model) 260 x 110 x 353 mm

A-C3 260 x 110 x 353 mm

Weight:

A-C5 6.3 kg (13 lb, 14 oz)

A-C3 4.9 kg

Accessories

- Operating Instructions 1
- Warranty card 1
- Remote control unit 1
- AA Batteries (R6 / UM-3) 2

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier

** Measured with audio spectrum analyzer.

NOTE:

Specifications and design subject to possible modifications without notice due to improvements.

Service Manual

ORDER NO.
RRV1375

STEREO AMPLIFIER

A-C5

A-C3

- Refer to the service manual RRV1025 for A-C5/HEWZIW.

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-C5	A-C3		
HEWZIW8	O	O	AC220-230V	AC240V, *
HE8	O	O	AC220-230V	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.

CONTRAST OF MISCELLANEOUS PARTS

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	561J
47k Ω	\rightarrow	47 \times 10 ³	\rightarrow	473	RD1/4PS	473J
0.5 Ω	\rightarrow	0R5			RN2H	0R5K
1 Ω	\rightarrow	010			RS1P	010K

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	5621F
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1. CONTRAST OF A-C5/HEWZIW8 AND A-C5/HEWZIW

Although A-C5/HEWZIW8 and A-C5/HEWZIW are different in model name, they consist of the same components.

2. CONTRAST OF A-C5/HE8 AND A-C5/HE

A-C5/HE8 and A-C5/HE have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		A-C5/HE	A-C5/HE8	
NSP NSP	AMP AF ASSY	AWK7002	AWK7003 *	
	— HEAD PHONE ASSY	AWZ7000	AWZ7001 *	
	— TRANS CONNECT ASSY	AWZ7299	AWZ7300 *	
	— AF ASSY	AWZ7007	AWZ7008 *	
	— SUB TRANS ASSY	AWZ7022	AWZ7023 *	
NSP	AMP FUKUGOU ASSY	AWM7094	AWM7001 *	
	— VOLUME ASSY	AWZ7004	AWZ7005 *	
	— SP OUT ASSY	AWZ7277	AWZ7019 *	
	— POWER AMP ASSY	AWZ7028	AWZ7029 *	
	— FRONT ASSY	AWZ7030	AWZ7031 *	
	— FUNCTION ASSY	AWZ7032	AWZ7033 *	

Note : Parts marked * are the same as those of A-C5/HEWZIW which is shown with A-C5/HEWZIW in the service manual RRV1025.

3. CONTRAST OF A-C3/HEWZIW8 AND A-C3/HEWZIW

Although A-C3/HEWZIW8 and A-C3/HEWZIW are different in model name, they consist of the same components.

4. CONTRAST OF A-C3/HE8 AND A-C3/HE

A-C3/HE8 and A-C3/HE have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		A-C3/HE	A-C3/HE8	
NSP NSP	AMP AF ASSY	AWK7024	AWK7025 *	
	— HEAD PHONE ASSY	AWZ7181	AWZ7010 *	
	— TRANS CONNECT ASSY	AWZ7011	AWZ7003 *	
	— AF ASSY	AWZ7015	AWZ7016 *	
	— SUB TRANS ASSY	AWZ7022	AWZ7023 *	
NSP	AMP FUKUGOU ASSY	AWM7002	AWM7003 *	
	— VOLUME ASSY	AWZ7012	AWZ7013 *	
	— SP OUT ASSY	AWZ7193	AWZ7034 *	
	— POWER AMP ASSY	AWZ7035	AWZ7036 *	
	— FRONT ASSY	AWZ7037	AWZ7038 *	
	— FUNCTION ASSY	AWZ7032	AWZ7039 *	

Note : Parts marked * are the same as those of A-C3/HEWZIW which is shown with A-C3/HEWZIW in the service manual RRV1025.

-756



Service Manual

ORDER NO.
RRV1375

STEREO AMPLIFIER **A-C5** **A-C3**

- Refer to the service manual RRV1025 for A-C5/HEWZIW.

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-C5	A-C3		
HEWZIW8	○	○	AC220-230V	AC240V, *
HE8	○	○	AC220-230V	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.

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O.Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923

CONTRAST OF MISCELLANEOUS PARTS

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	→	56 × 10 ¹	→	561	RD1/8PM	561J
47k Ω	→	47 × 10 ³	→	473	RD1/4PS	473J
0.5 Ω	→	0R5			RN2H	0R5K
1 Ω	→	010			RS1P	010K

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

5.62k Ω	→	562 × 10 ¹	→	5621	RN1/4PC	5621F
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1. CONTRAST OF A-C5/HEWZIW8 AND A-C5/HEWZIW

Although A-C5/HEWZIW8 and A-C5/HEWZIW are different in model name, they consist of the same components.

2. CONTRAST OF A-C5/HE8 AND A-C5/HE

A-C5/HE8 and A-C5/HE have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		A-C5/HE	A-C5/HE8	
NSP NSP	AMP AF ASSY	AWK7002	AWK7003 *	
	— HEAD PHONE ASSY	AWZ7000	AWZ7001 *	
	— TRANS CONNECT ASSY	AWZ7299	AWZ7300 *	
	— AF ASSY	AWZ7007	AWZ7008 *	
	— SUB TRANS ASSY	AWZ7022	AWZ7023 *	
NSP	AMP FUKUGOU ASSY	AWM7094	AWM7001 *	
	— VOLUME ASSY	AWZ7004	AWZ7005 *	
	— SP OUT ASSY	AWZ7277	AWZ7019 *	
	— POWER AMP ASSY	AWZ7028	AWZ7029 *	
	— FRONT ASSY	AWZ7030	AWZ7031 *	
	— FUNCTION ASSY	AWZ7032	AWZ7033 *	

Note : Parts marked * are the same as those of A-C5/HEWZIW which is shown with A-C5/HEWZIW in the service manual RRV1025.

3. CONTRAST OF A-C3/HEWZIW8 AND A-C3/HEWZIW

Although A-C3/HEWZIW8 and A-C3/HEWZIW are different in model name, they consist of the same components.

4. CONTRAST OF A-C3/HE8 AND A-C3/HE

A-C3/HE8 and A-C3/HE have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		A-C3/HE	A-C3/HE8	
NSP NSP	AMP AF ASSY	AWK7024	AWK7025 *	
	— HEAD PHONE ASSY	AWZ7181	AWZ7010 *	
	— TRANS CONNECT ASSY	AWZ7011	AWZ7003 *	
	— AF ASSY	AWZ7015	AWZ7016 *	
	— SUB TRANS ASSY	AWZ7022	AWZ7023 *	
NSP	AMP FUKUGOU ASSY	AWM7002	AWM7003 *	
	— VOLUME ASSY	AWZ7012	AWZ7013 *	
	— SP OUT ASSY	AWZ7193	AWZ7034 *	
	— POWER AMP ASSY	AWZ7035	AWZ7036 *	
	— FRONT ASSY	AWZ7037	AWZ7038 *	
	— FUNCTION ASSY	AWZ7032	AWZ7039 *	

Note : Parts marked * are the same as those of A-C3/HEWZIW which is shown with A-C3/HEWZIW in the service manual RRV1025.

P.S

1. Sub trans assy (AWZ7023) is made a design change like the following:

Mark	Description	OLD	NEW
△	C1001, C1002	ACG1002 (0.01μF/400V)	ACG7020 (0.01μF/250V)

2. Function assy (AWZ7033, AWZ7039) is made a design change like the following:

Mark	Description	OLD	NEW
	C2137 – C2139 C2136	CCSQCH101J50 Not used	Not used CKCYF473Z50