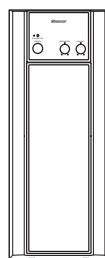


Service Manual



S-VW02

ORDER NO.
RRV2805

POWERED SPEAKER SYSTEM

S-VW02

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

Model	Type	Power Requirement	The voltage can be converted by the following method.
S-VW02	DDFXJI	AC110-127V/220-230V/240V~	with the voltage selector



For details, refer to "Important symbols for good services".

1 2 3 4

SAFETY INFORMATION

A 

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.

B **WARNING**

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

C Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

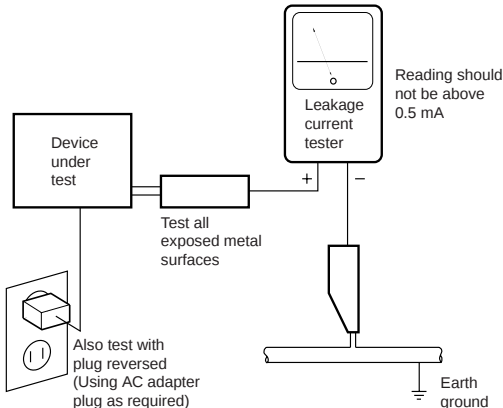
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  on the schematics and on the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important symbols for good services]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

Subwoofer:

Power RequirementsAC110-127V/220-230V/240V~
(switchable), 50/60 Hz
Power Consumption 100W
Outline Dimensions..... 165(W) x 405(H) x 325(D) mm
Weight(without package)9.4 kg

Power Amplifier:

Continous Power Output (RMS)..... 100W
(100Hz, T.H.D 10%, 6Ω)
Total Harmonic Distortion
..... 0.5 % (100 Hz, 6Ω , 25 W)
Power consumption (an energy-saving standby mode)
..... 0.5W less

- Above specifications are for when power supply is 230V.

Input (sensitivity at 100 Hz/impedance)

LINE LEVEL (RCA jack) 160 mV/20 k
CROSSOVER Frequency50-200Hz
(continuously variable)

Speaker:

EnclosureBass-reflex, floor-standing type
System 13 cm cone type

Accessory Parts:

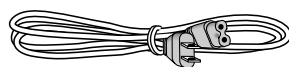
Power cord x 1
RCA plug cord x 1
Non-slip pads (1x4)
Operating instructions x 1

NOTE:

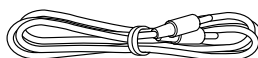
Specifications and design subject to possible modification without notice, due to improvements.

● Accessories

- Power cord
(ADG1158)



- RCA plug cord
(SDE1031)



- Non-slip pads
(SEC1563)



(for Subwoofer)

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The  mark found on some component parts indicates the importance of the safety factor of the part.

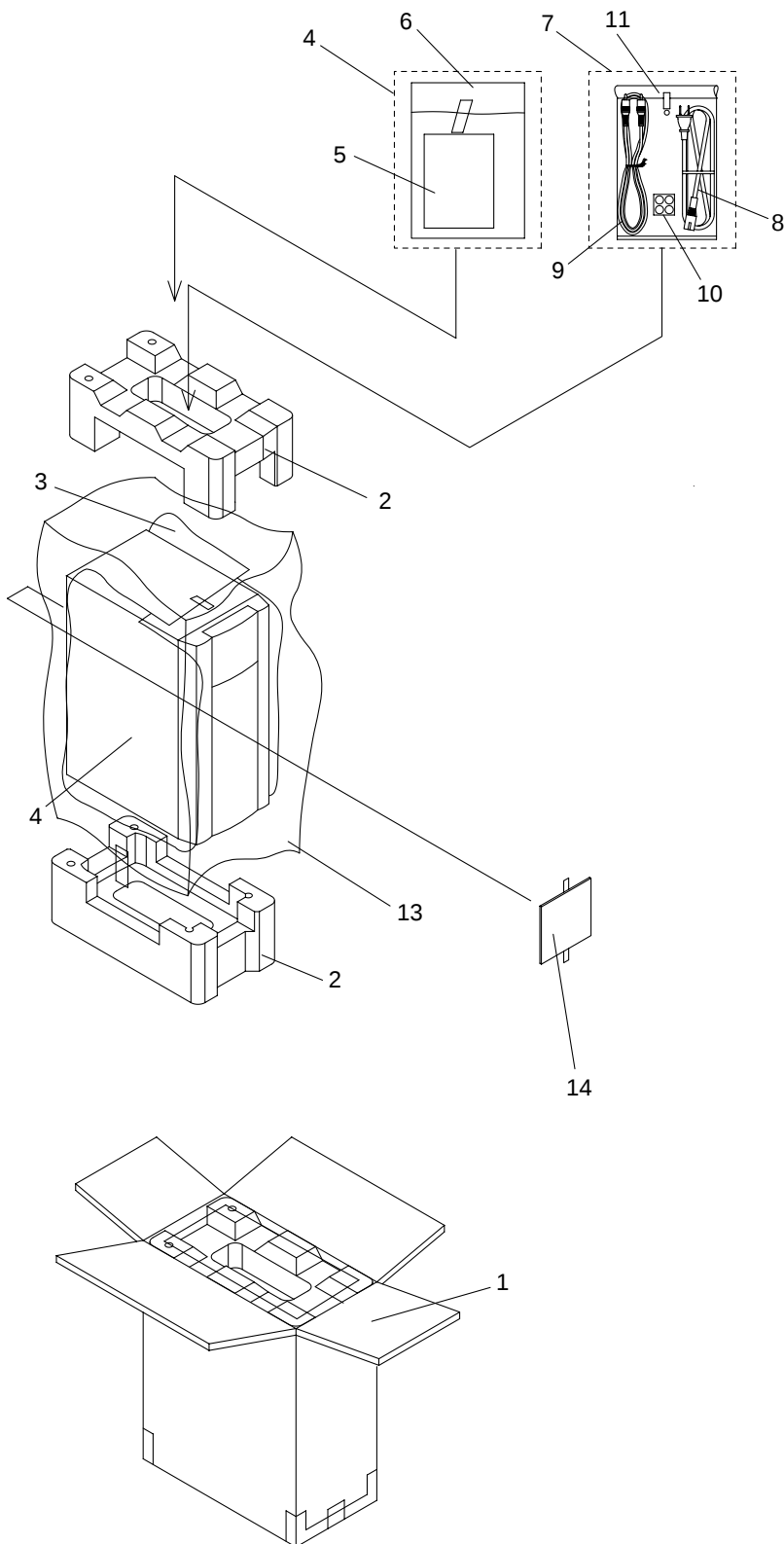
Therefore, when replacing, be sure to use parts of identical designation.

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

● For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

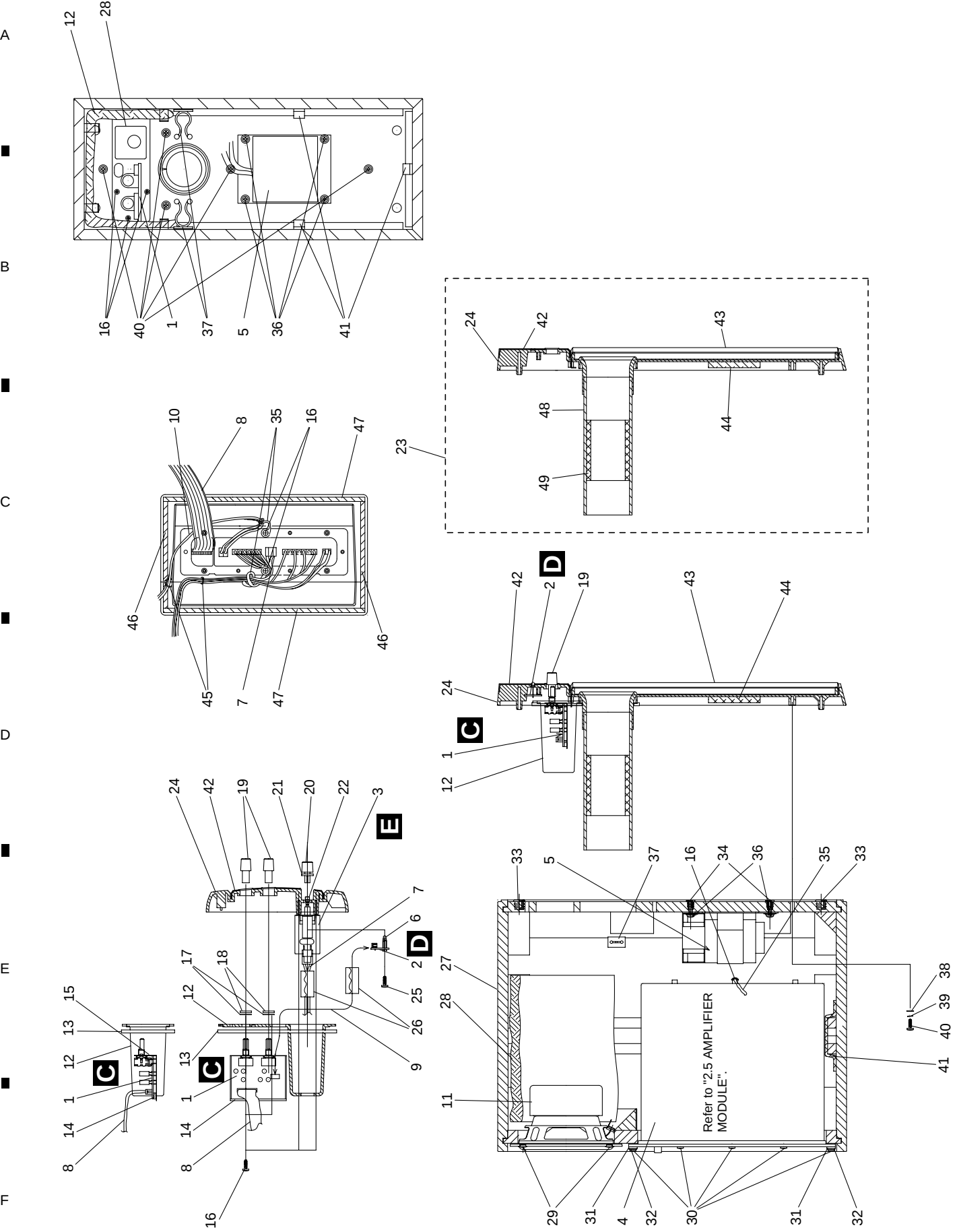
2.1 PACKING



PACKING parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Packing Case	SHG2478
2	Protector	SHA2377
3	Protection Sheet	SHC1797
NSP 4	Accessory set	SEA1620
5	Operating Instructions (English, Spanish, Chinese)	SRD1252
6	Polyethylene Bag	SHL1291
NSP 7	Accessory Set	SEA1619
⚠ 8	Power Cord	ADG1158
9	RCA Plug Cord	SDE1031
10	Non Slip Pads	SEC1563
11	Polyethylene Bag	SHL1294
12	•••••••	
NSP 13	Polyethylene Bag	SHL1212
14	Protector	SHB1121

2.2 POWERED SUBWOOFER



POWERED SUBWOOFER parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	FRONT Assy	AWU8139
2	LED Assy	AWU8140
3	SW Assy	AWU8141
NSP 4	AMPLIFIER Module	AXW7002
⚠ 5	Power Transformer(T1)	ATS7361
6	LED	SPR-39MVWF
⚠ 7	Connecting Cord	ADX7427
8	Jumper Wire	D20PYY0950E
9	Jumper Wire	D20PYY0310E
10	Connecting Cord(for speaker)	SDF1096
11	Speaker	T12LR82-52D
12	Inside Panel	SNK2665
13	Packing	SEC1683
14	Packing	SEC1701
15	Earth Plate	SET1045
16	Screw	BPZ30P080FMC
17	Washer	WA92F140U050
18	Nut	NK90FUC
19	Volume Knob	SNK2664
20	Power Knob	SNK2663
21	Packing	SEC1712
22	Tape	SEH1050
23	Front Panel Assy	SXB1459
NSP 24	Front Panel	SNK2662
25	Screw	PPZ26P080FMC
26	Sponge	SEC1684
NSP 27	Cabinet	SMM1988
NSP 28	Acoustic Absorbent	SMV2092
29	Screw	BYC40P160FZB
30	Screw	BYC35P160FZB
31	Washer	SBF1005
32	Washer	WC35FZB
33	Catch	SNK2449
34	Fung Nut M4	SBN-038
NSP 35	Cable Clamper	SNE1022
36	Srew	PMB40P160FMC
NSP 37	Cord Clamp	SEP1261
38	Washer	WC40FMC
39	Spring Lock Washer	WS40FMC
40	Screw	PPZ40P200FMC
41	Sponge	SEP1262
NSP 42	Aluminum Panel	SAH1157
NSP 43	Punching Net	SNC1195
44	Dumper	SEP1269
NSP 45	Wire Tie 90mm	SEP1003
46	Packing A	SEC1691
47	Packing B	SEC1692
NSP 48	Paper Tube 50	SMR1365
NSP 49	Sponge	SEP1260

2.3 AMPLIFIER MODULE

A

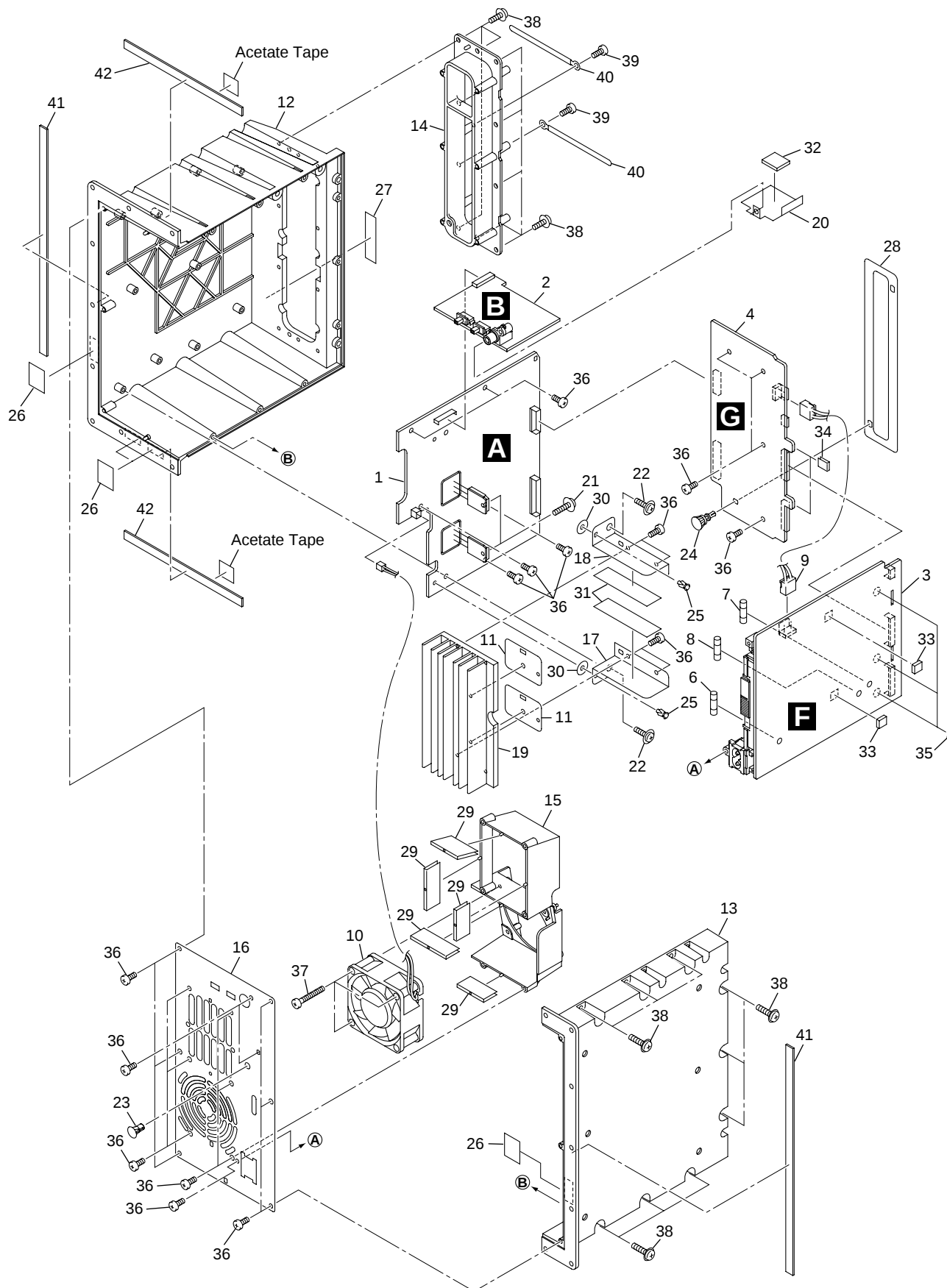
B

C

D

E

F

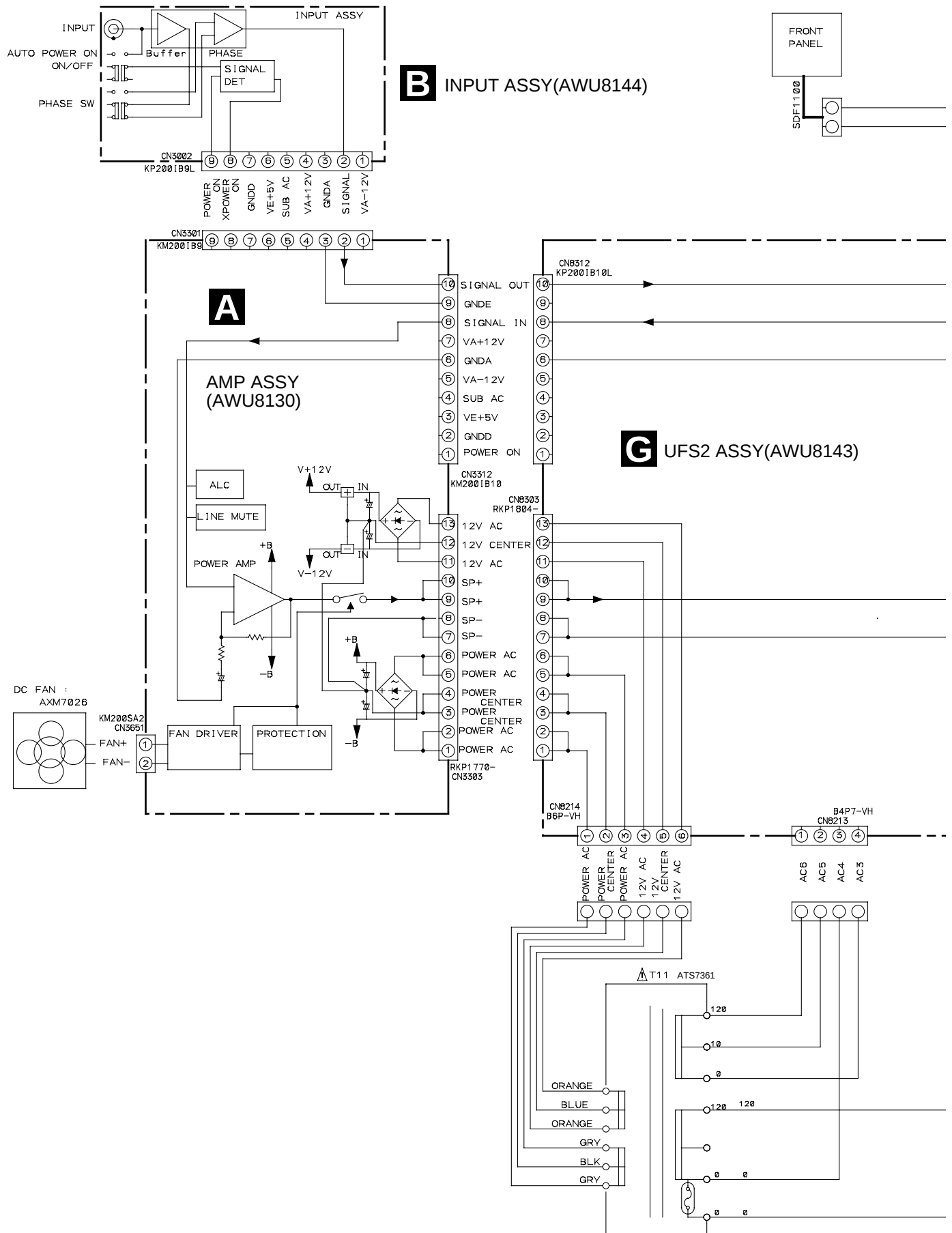


AMPLIFIER MODULE parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	AMP Assy	AWU8130
2	INPUT Assy	AWU8144
3	PRIMARY M Assy	AWU8142
4	UFS2 Assy	AWU8143
5	•••••••	
⚠ 6	Fuse (FU1 : T2.5A)	REK1026
⚠ 7	Fuse (FU2 : T2.5A)	REK1026
⚠ 8	Fuse (FU3 : T2.5A)	REK1026
⚠ 9	Connecting Cord	ADX7440
10	DC FAN Motor	AXM7026
11	Mica Sheet	AEE7052
12	Amp Box L	AMC7052
13	Amp Box S	AMC7053
14	PCB Holder L	AMR7468
15	Fan Holder	AMR7469
16	Rear Panel	ANC8190
17	Heat Sink Holder L	ANG7473
18	Heat Sink Holder R	ANG7474
19	Heat Sink	ANH7167
20	Input Shield	ANK7115
21	Screw	ABA1082
22	Screw	ABA7008
23	Card Spacer	AEC7133
24	Push Rivet	AEC7483
25	Rivet(Plastic)	RBM-003
26	Rear Panel Damper	AED7078
NSP 27	Label	VRW1629
28	PCB Sealing L	AED7065
29	Fan Holder Seal	AED7066
30	H.S. Holder Patch	AED7067
31	H.S. Damp Seal	AED7068
32	Input Shield Damper	AED7075
33	P. Assy Damper	AED7076
34	PCB Patch	AED7077
35	P. Assy Silencer	AED7079
36	Screw	BBZ30P080FZK
37	Screw	BPZ30P350FZK
38	Screw	IPZ30P100FMC
39	Screw	BPZ30P080FMC
NSP 40	Cable Clamper	SNE1022
41	Packing B	SEC1692
42	Packing A	SEC1691

3. SCHEMATIC DIAGRAM

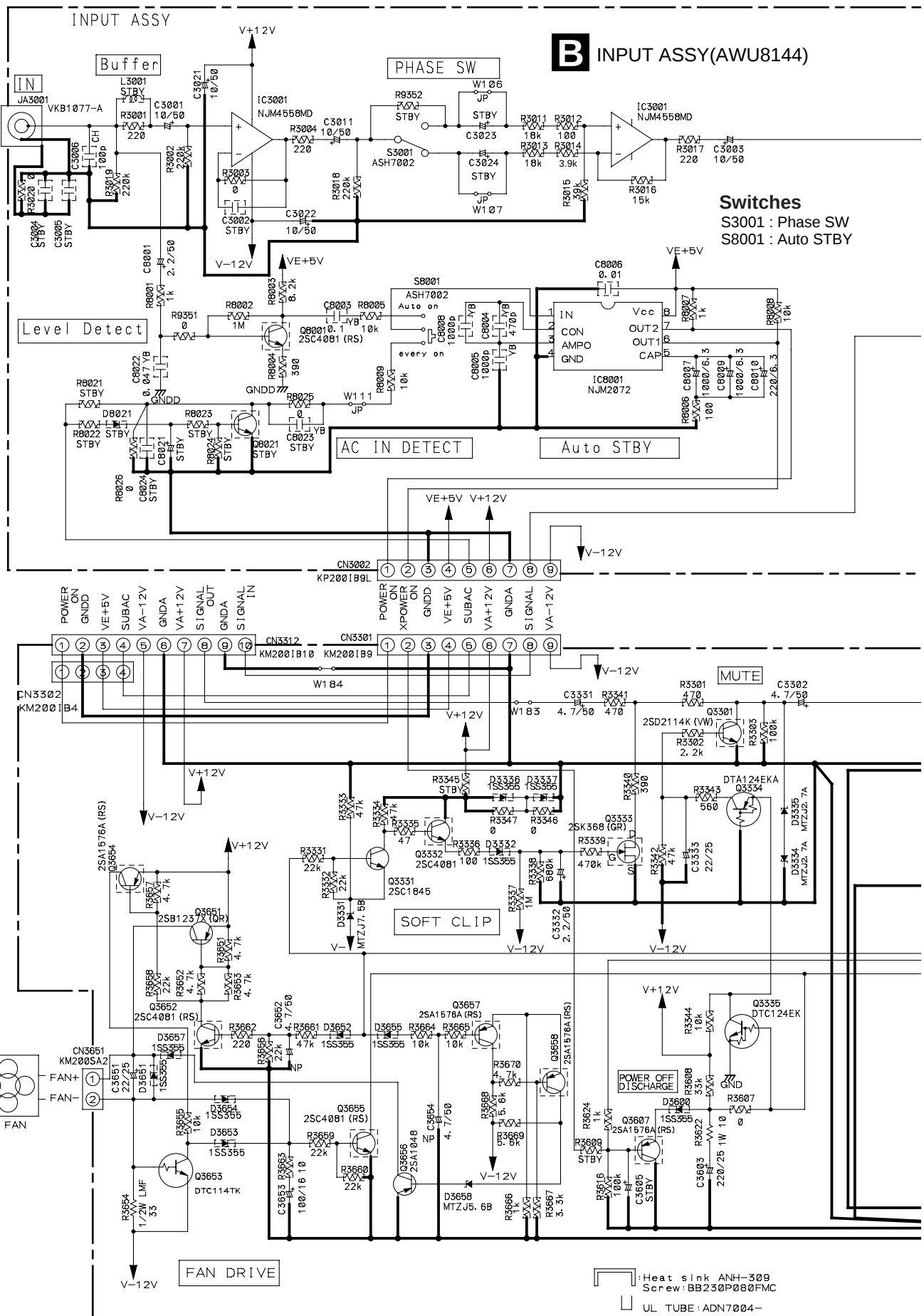
3.1 OVERALL WIRING DIAGRAM





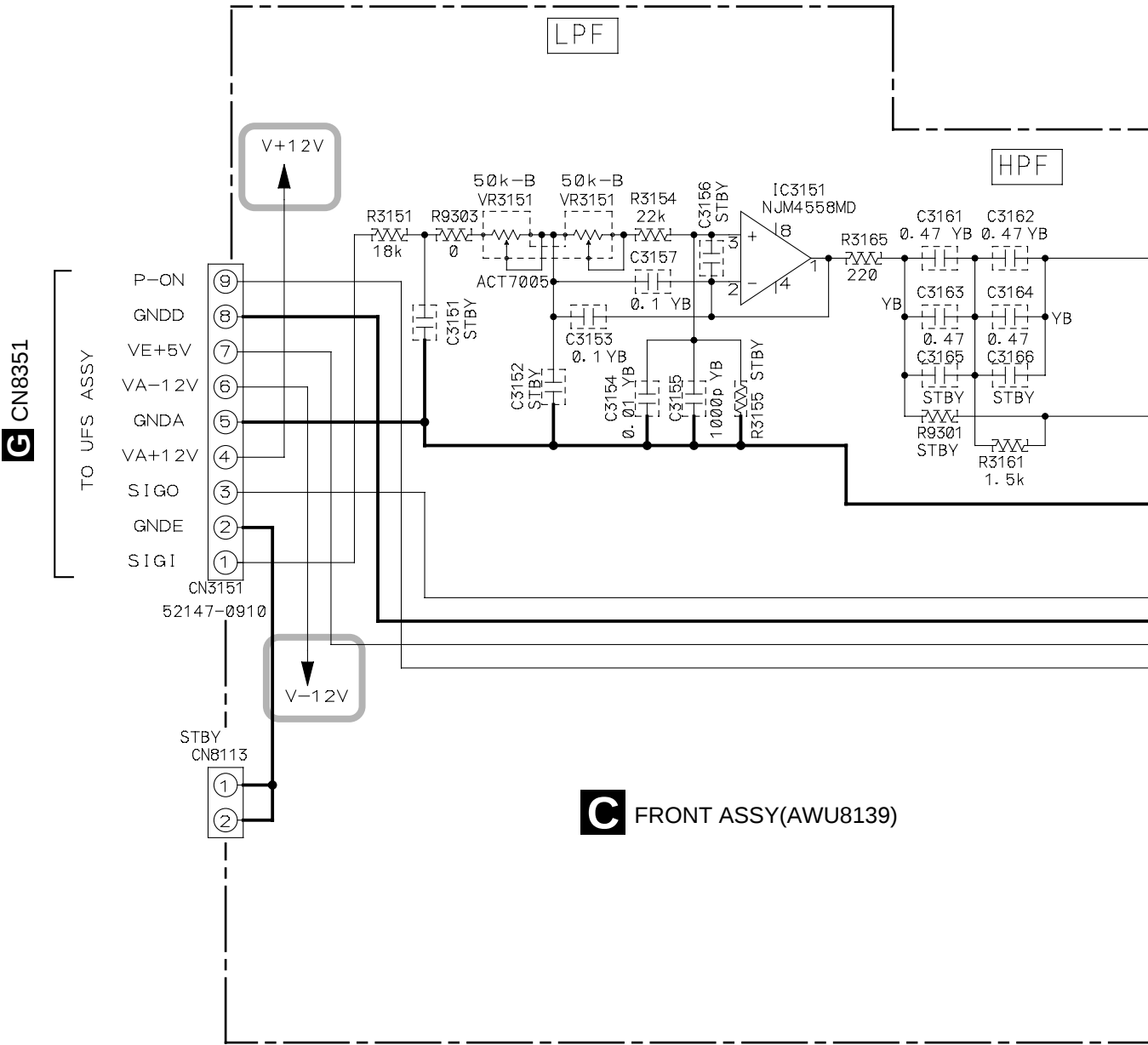
F

3.2 AMP and INPUT ASSYS



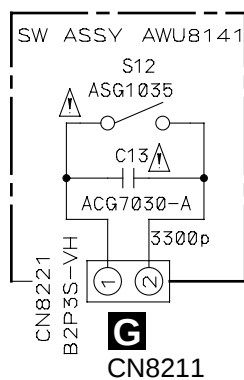


3.3 FRONT, LED and SW ASSYS



C FRONT ASSY(AWU8139)

 : The power supply is shown with the marked box.



G
CN8211

S-VW02

3.4 PRIMARY M and UFS2 ASSYS

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS ONLY.

C CN3051

TO FRONT ASSY

A CN3312

CN3312
KP2001B10L

TO AMP ASSY

SIGNAL O
NC
SIGNAL IN
VA+12V
GNDA
VA-12V
SUB AC
VE+5V
GNDD
POWER ON

SIGNAL O
GNDE
SIGNAL IN
VA+12V
GNDA
VA-12V
VE+5V
GNDD
POWER ON

CN3351
52147-0910

to CN91
CN8291
STBY

A CN3303

12V AC
12V CENTER
12V AC

TO AMP ASSY

SP+
SP+
SP-
SP-
POWER AC
POWER AC
POWER CENTER
POWER CENTER
POWER AC
POWER AC

CN8214
B6P-VH

12V AC
12V CENTER
12V AC
POWER AC
POWER CENTER
POWER AC

ORANGE
BLUE
ORANGE
GRY
BLK
GRY

CN8361
B2P-VH

SP+
SP-

*J3 (OUT OF ASSY)

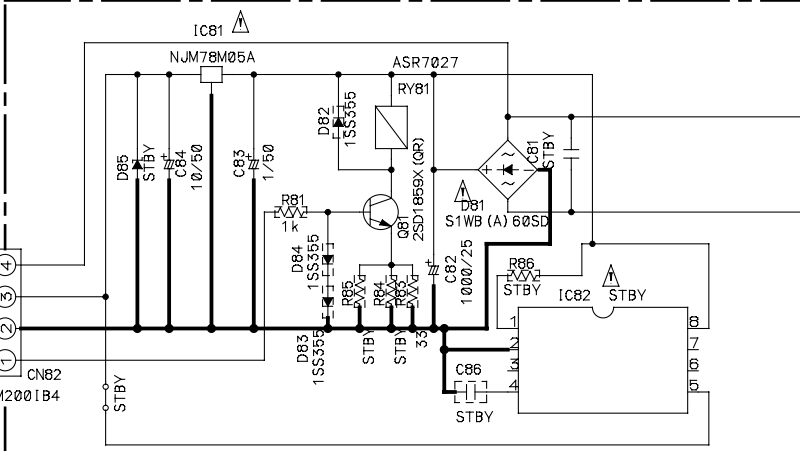
CN8303
RKP1825

CN8282
KP2001B4L

CN82
KM2001B4

TO AMP ASSY

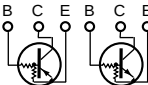
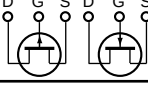
SUBAC
VE+5V
GNDD
POWER ON



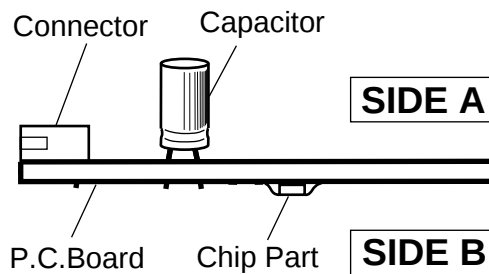
4. PCB CONNECTION DIAGRAM

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
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. 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.
4. View point of PCB diagrams.



SIDE B

SIDE B

AMP ASSY

CN3301

Q3607
Q3332
Q3335
Q3334
Q3333
Q3652
Q3301
Q3657
Q3655
Q3654
Q3658
Q3653
Q3608
Q3302
Q3604
Q3605
Q3606

CN3312

ATTENTION
EN CAS DE REMPLACEMENT DES FUSIBLES IC41 ET IC42
UTILISER QUE LA RÉFÉRENCE 49101.5 DE CHEZ LITTEUSE INC.

CN3303

12AC
12GND
12AC
SP+
SP-
SP.

POWER AC
POWER AC
POWER CENTER
POWER AC
POWER AC

AMP ASSY

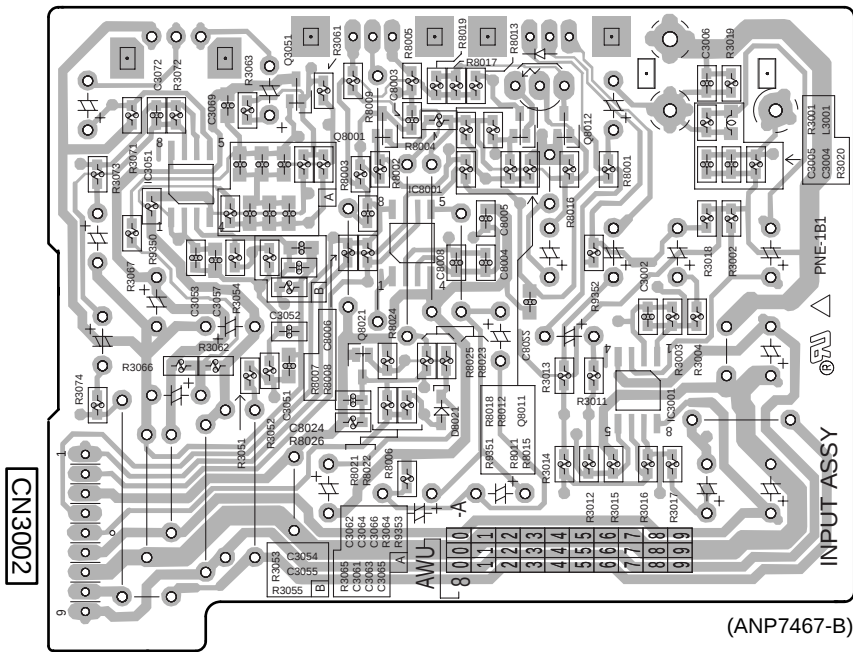
AWU8129
AWU8130
AWU8131
AWU8132

(ANP7467-B)

SIDE B

SIDE B

B INPUT ASSY



(ANP7467-B)

IC3051 Q3051 Q8001 IC8001 Q8011 Q8012
Q8021 IC3001

B

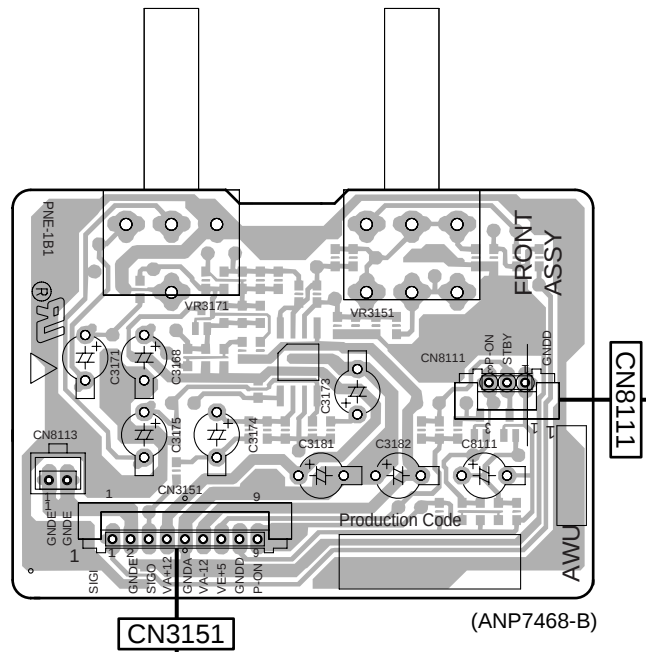
B

4.3 FRONT, LED and SW ASSYS

SIDE A

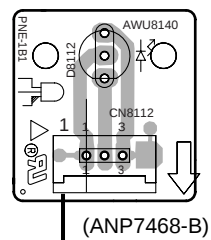
SIDE A

C FRONT ASSY



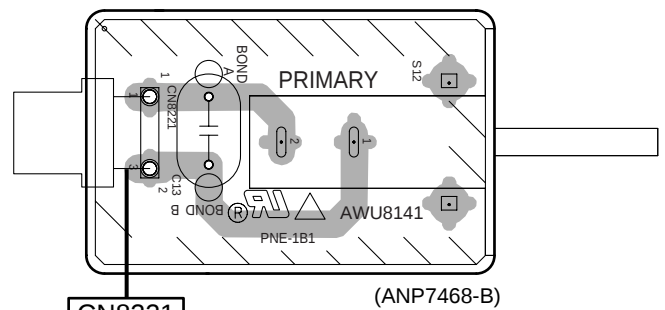
G CN8351

D LED ASSY



CN8112

E SW ASSY



G CN8211

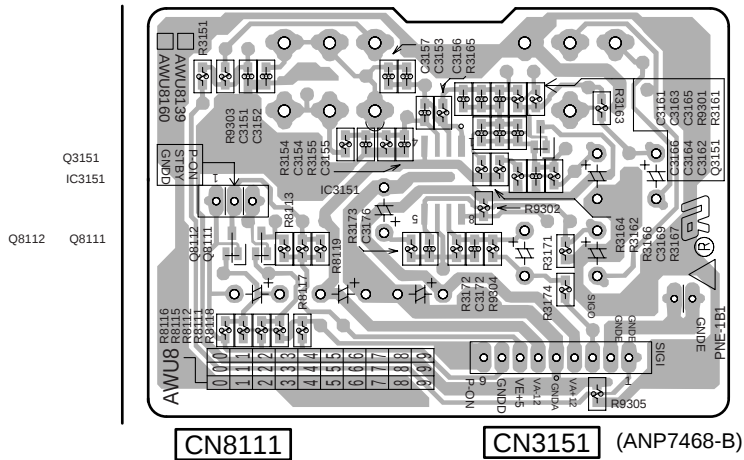
CDE

CDE

SIDE B

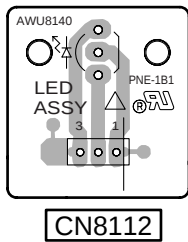
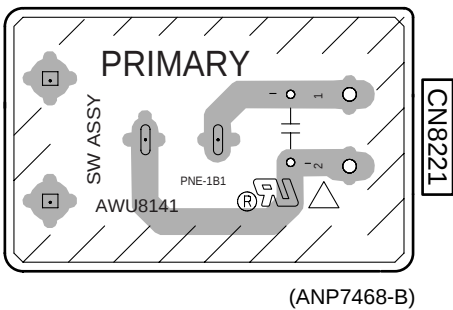
SIDE B

C FRONT ASSY



D LED ASSY

E SW ASSY



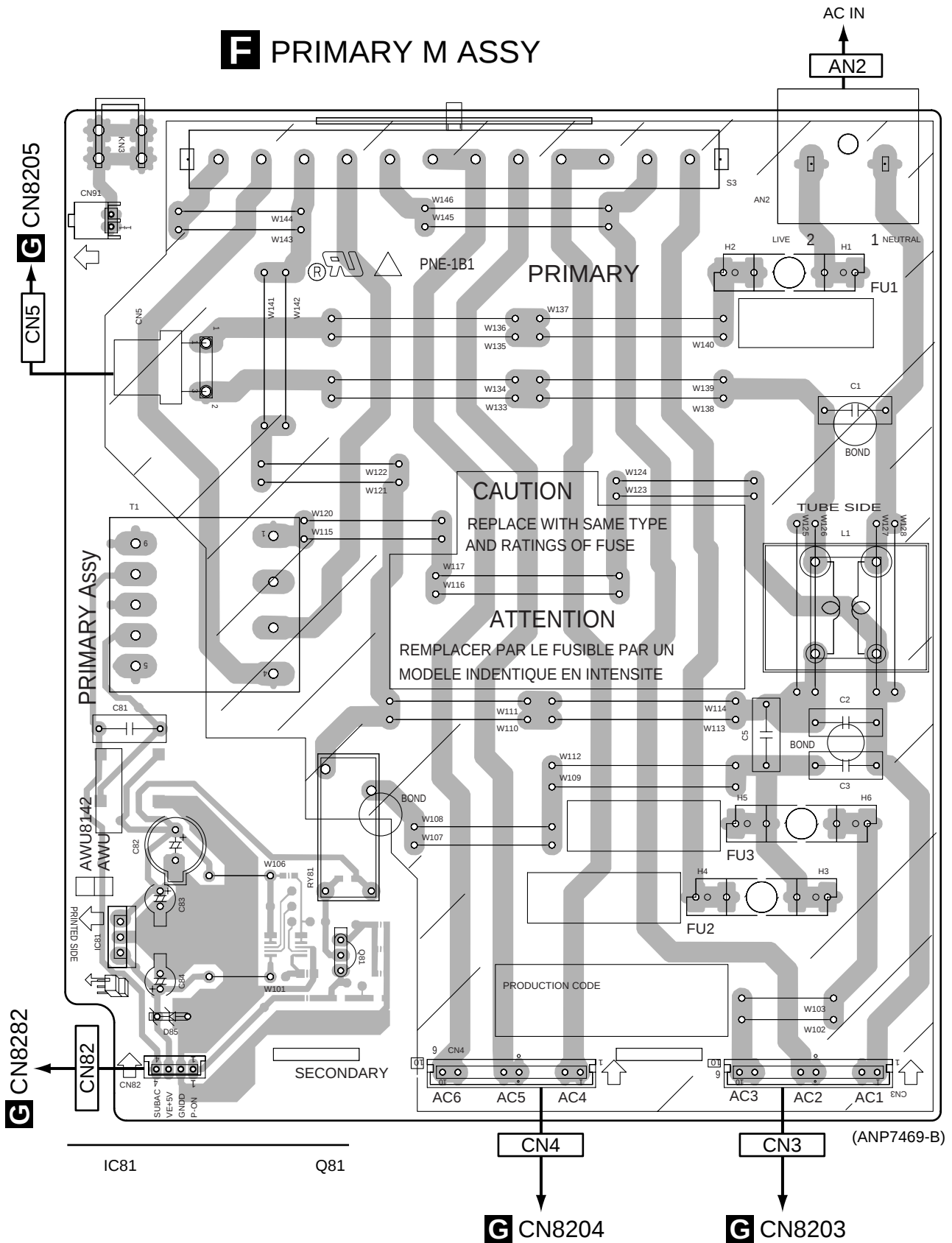
CDE

CDE

4.4 PRIMARY M ASSY

SIDE A

SIDE A



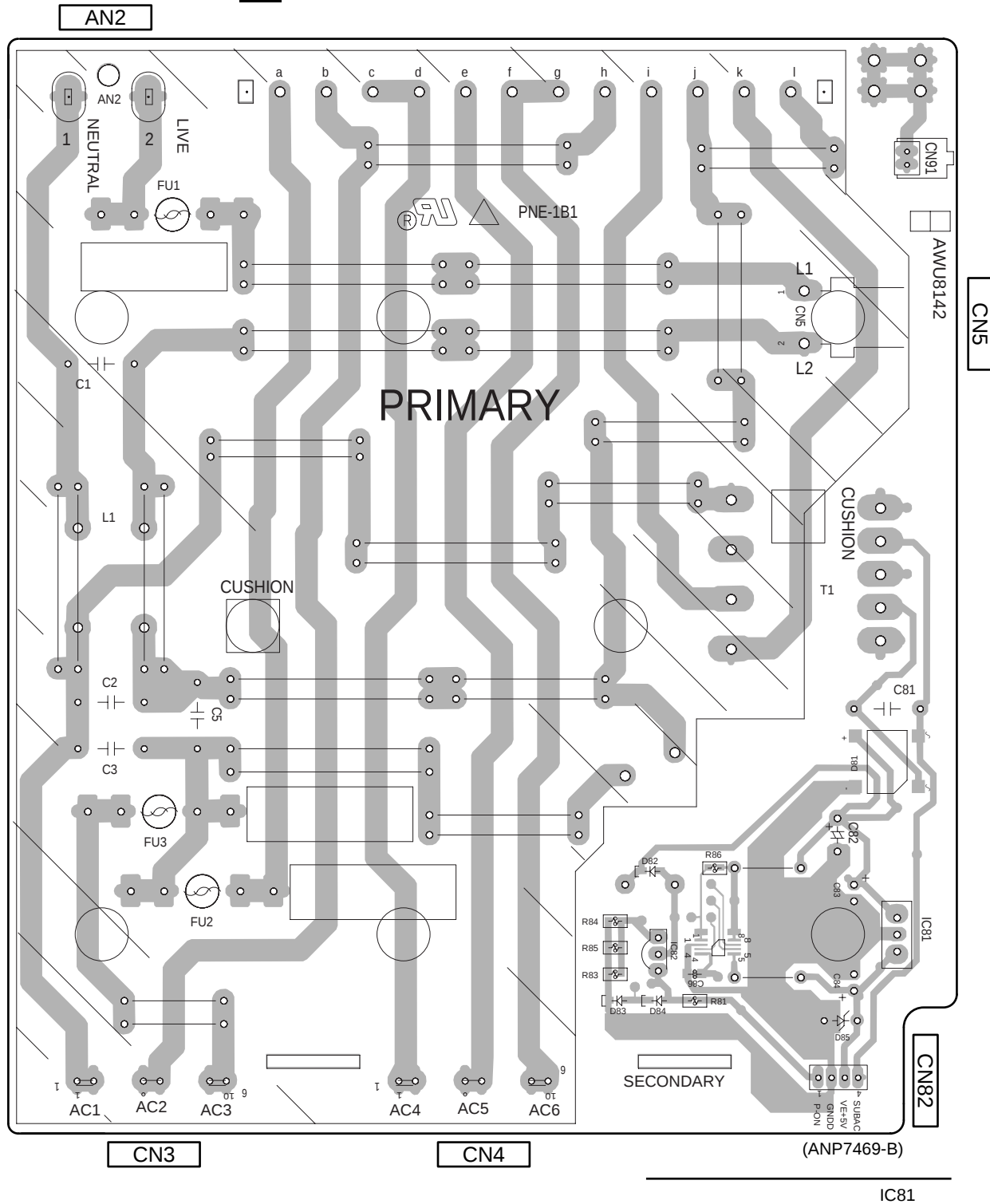
F

F

SIDE B

SIDE B

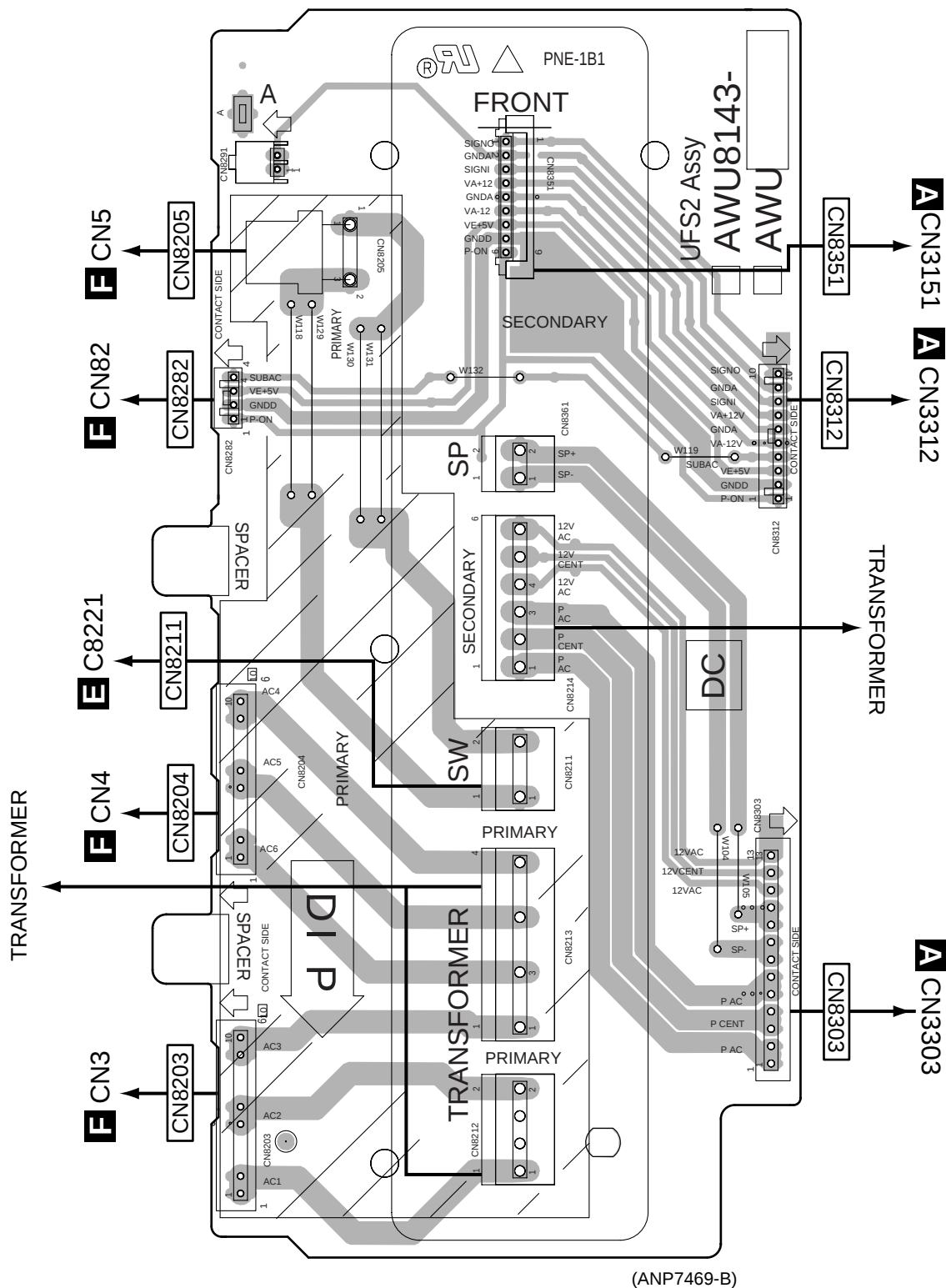
F PRIMARY M ASSY



4.5 UFS2 ASSY

SIDE A**SIDE A**

G UFS2 ASSY



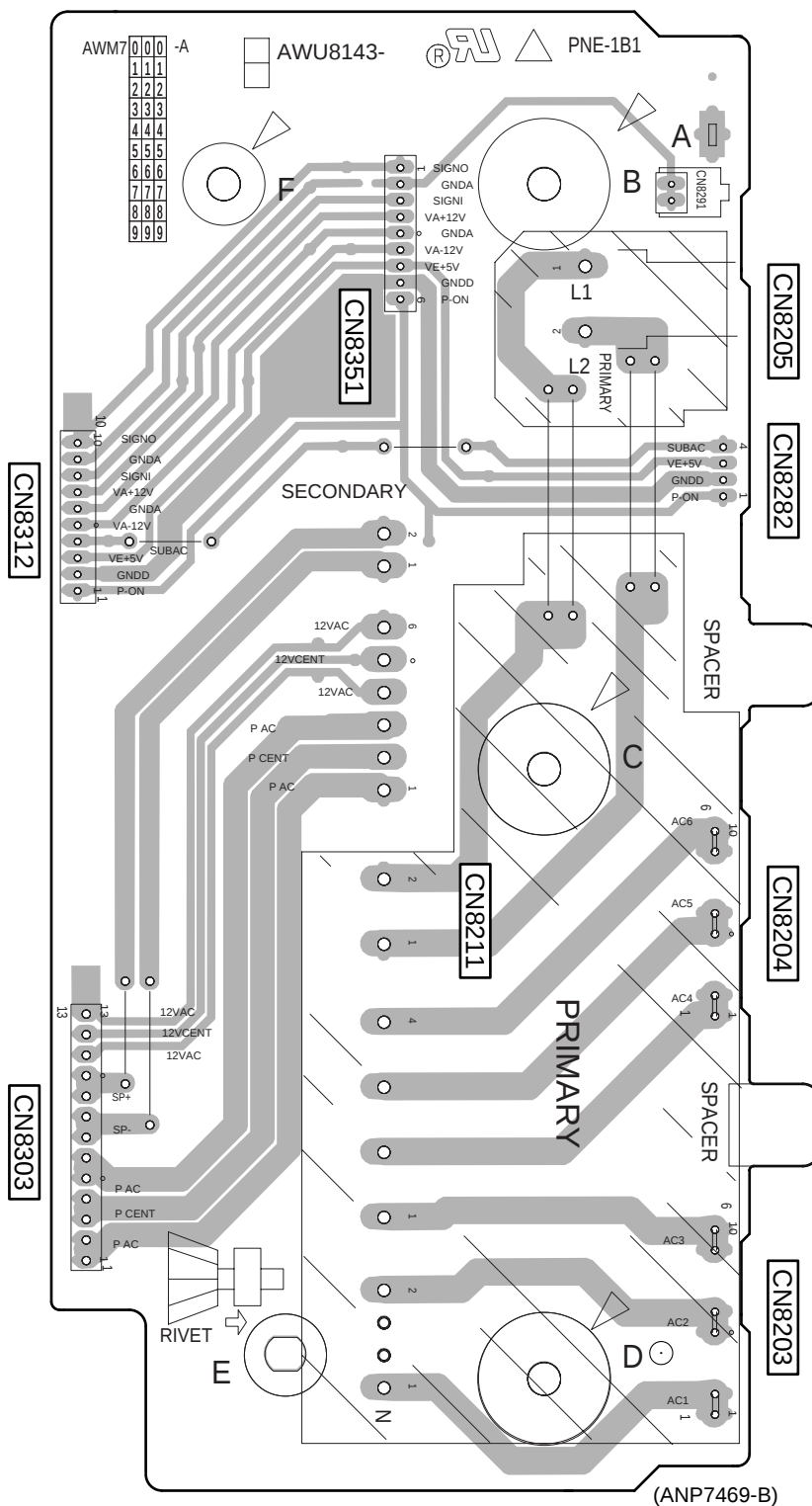
G

G

SIDE B

SIDE B

G UFS2 ASSY


G
G

5. 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.

● 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 x 10¹ $\rightarrow$ 561 RD1/4PU561J
 47k Ω $\rightarrow$ 47 x 10³ $\rightarrow$ 473 RD1/4PU473J
 0.5 Ω $\rightarrow$ R50 RN2H50K
 1 Ω $\rightarrow$ 1R0 RS1P1R0K

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

5.62k Ω $\rightarrow$ 562 x 10¹ $\rightarrow$ 5621 RN1/4PC5621F

Mark No. Description Part No.

LIST OF ASSEMBLIES

NSP	1..AMP COMPLEX ASSY	AWM7859
	2..AMP ASSY	AWU8130
	2..INPUT ASSY	AWU8144
NSP	1..FRONT COMPLEX ASSY	AWM7860
	2..FRONT ASSY	AWU8139
	2..LED ASSY	AWU8140
	2..SW ASSY	AWU8141
NSP	1..DD COMPLEX ASSY	AWM7861
	2..PRIMARY M ASSY	AWU8142
	2..UFS2 ASSY	AWU8143

Mark No. Description Part No.

A AMP ASSY SEMICONDUCTORS

Δ IC41, IC42	AEK7011
Δ IC43	NJM78M12FA
Δ IC44	NJM79M12FA
Q3656	2SA1048
Δ Q3304	2SA1145
Q3603, Q3604, Q3607, Q3654	2SA1576A
Q3657, Q3658	2SA1576A
Δ Q3310	2SA1941
Δ Q3308	2SA965
Q3651	2SB1237X
Q3331	2SC1845
Δ Q3307	2SC2235
Δ Q3303	2SC2705
Q3608, Q3652, Q3655	2SC4081
Δ Q3309	2SC5198
Q3301	2SD2114K
Q3333	2SK368
Q3334	DTA124EK
Q3653	DTC114TK
Q3335	DTC124EK
Q3302	HN1A01FU
D3302-D3305, D3308, D3309, D3332	1SS355
D3361, D3600-D3608, D3651-D3655	1SS355
D3657	1SS355
Δ D41	D2SBA20(B)
Δ D31	D3SBA20(B)
D3334, D3335	MTZJ2.7A
D3658	MTZJ5.6B
D3307, D3310, D3331	MTZJ7.5B

Mark No. Description Part No.

RELAYS

RY3601 SP Relay ASR7008

COILS AND FILTERS

L3361 AF Choke Coil ATH-133

CAPACITORS

C31, C32 (4700 μ F/6.3V) ACH7180
 C3303 CCSRCH101J50
 C3310, C3312 CCSRCH680J50
 C3653 CEANP101M16
 C3604 CEANP1R0M2A

C3652, C3654 CEANP4R7M50
 C45-C47 CEAT100M50
 C3601 CEAT1R0M50
 C3333, C3651 CEAT220M25
 C3602 CEAT221M16

C3603 CEAT221M25
 C3332 CEAT2R2M50
 C3311, C48 CEAT470M35
 C41, C42 CEAT471M35
 C3302, C3331 CEAT4R7M50

C3306 CKSRYB104K25
 C3361, C3362 CKSRYB223K50
 C3307 CKSRYB471K50
 C34 CQMA223K2E

RESISTORS

R3319, R3320 (0.22 Ω /5W) ACN7035
 R3361 RD1/2LMF100J
 Δ R3654 RD1/2LMF330J
 Δ R3318 RD1/2LMF331J
 Δ R3325, R3326 RD1/2LMF4R7J

R3362 RD1/2LMF4R7J
 Δ R3309, R3310, R3317 RD1/2LMF560J
 R3622 RS1LMF100J
 Other Resistors RS1/16S###J

OTHERS

Heat Sink ANH-309
 Screw BBZ30P080FMC
 CN3312 10P Plug KM200IB10
 CN3301 9P Plug KM200IB9
 CN3651 2P Plug KM200SA2
 CN3303 13P Plug RKP1770

Mark No.	Description	Part No.
B	INPUT ASSY	
SEMICONDUCTORS		
IC8001		NJM2072M
IC3001		NJM4558MD
Q8001		2SC4081

SWITCHES AND RELAYS		
S3001, S8001		ASH7002

CAPACITORS		
C3006		CCSRCH101J50
C3001, C3003, C3011, C3021, C3022		CEAT100M50
C8007, C8009		CEAT102M6R3
C8010		CEAT221M6R3
C8001		CEAT2R2M50

C8005, C8008		CKSRYB102K50
C8006		CKSRYB103K50
C8003		CKSRYB104K25
C8004		CKSRYB471K50
C8022		CKSRYB473K50

RESISTORS		
Other Resistors		RS1/16S###J

OTHERS		
CN3002	9P Socket	KP200IB9L
JA3001	Jack	VKB1077

C	FRONT ASSY	
SEMICONDUCTORS		
IC3151		NJM4558MD
Q3151, Q8111, Q8112		2SC4081

CAPACITORS		
C3176		CCSRCH470J50
C3168, C3175, C3181, C3182		CEAT100M50
C3171		CEAT1R0M50
C3173		CEAT470M25
C3155		CKSRYB102K50

C3154, C3169		CKSRYB103K50
C3153, C3157		CKSRYB104K25
C3172		CKSRYB152K50
C3161-C3164		CKSRYB474K10

RESISTORS		
VR3171 (10k-A5)		ACT7002
VR3151 (50k-BX2)		ACT7005
Other Resistors		RS1/16S###J

OTHERS		
CN8111	3P Jumper Connector	52147-0310
CN3151	9P Jumper Connector	52147-0910

D	LED ASSY	
OTHERS		
CN8112	3P Jumper Connector	52151-0310

E	SW ASSY	
SWITCHES AND RELAYS		
S12		ASG1035

Mark No.	Description	Part No.
CAPACITORS		
C13	(3300pF/AC250V)	ACG7030
OTHERS		
CN8221	2P VH-side Connector	B2P3S-VH

F	PRIMARY M ASSY	
SEMICONDUCTORS		
IC81		NJM78M05FA
Q81		2SD1859X
D82-D84		1SS355
D81		S1WB(A)60SD

TRANSFORMERS		
T1		ATT7080

SWITCHES AND RELAYS		
S3		XXK3001
RY81		ASR7027

CAPACITORS		
C84		CEAT100M50
C82		CEAT102M25
C83		CEAT1R0M50

RESISTORS		
Other Resistors		RS1/16S###J

OTHERS		
CN3, CN4	Plug 6P	AKM7076
H1-H6	Fuse Clip	AKR7001
CN5	2P-VH Connector	B2P3S-VH
AN2	AC Inlet 1P	BKP1046
CN82	4P Plug	KM200IB4
	Screw Plate	VNE1948

G	UFS2 ASSY	
OTHERS		
CN8351	9P Jumper Connector	52147-0910
CN8203, CN8204	Socket 6P	AKP7184
CN8361	2P-VH Connector	B2P-VH
CN8211	2P-VH Connector	B2P3-VH
CN8205	2P VH-side Connector	B2P3S-VH

CN8212	2P-VH Connector	B2P4-VH
CN8213	4P-VH Connector	B4P7-VH
CN8214	6P-VH Connector	B6P-VH
CN8312	10P Socket	KP200IB10L
CN8282	4P Socket	KP200IB4L
CN8303	B to B Connector 13P PCB Binder	RKP1825 VEF1040

6. ADJUSTMENT

There is no information to be shown in this chapter.

A

B

C

D

E

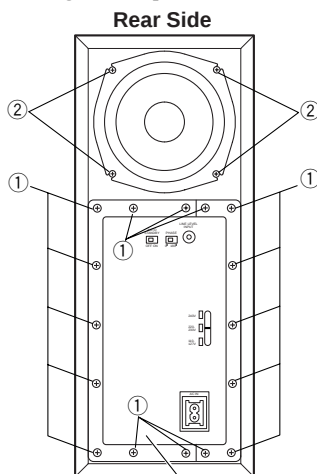
F

7. GENERAL INFORMATION

7.1 DISASSEMBLY

■ Removing the Amplifier Module

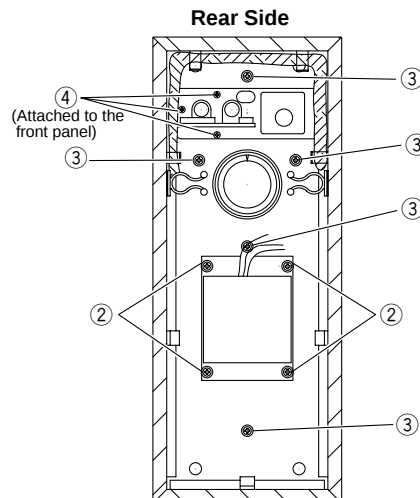
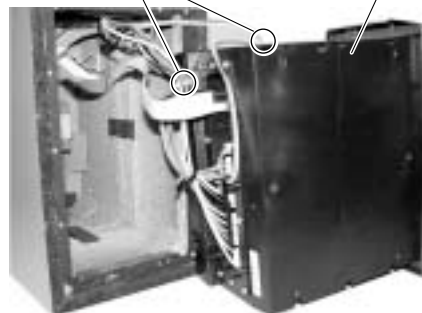
- 1) Unfasten 16 screws ① attaching Amp Box L and S.
- 2) Pull out the Amplifier Module toward back cutting the 2 part binders.
- 3) Loosen the cable styling and disconnect the cables of the rear panel and pull out the Amplifier Module.
Go to "Removing the Amplifier Module Assys" next page.



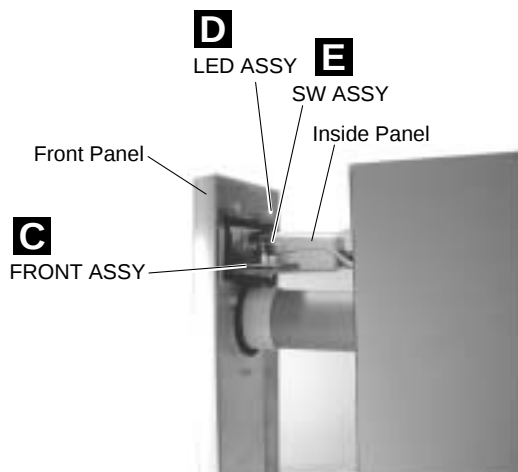
Rear Panel

cut the binder

Amplifier Module



- 2) The FRONT ASSY is attached to the inside panel. To detach the inside panel, unfasten 3 screws ④ from the back side of the front panel above figure. Then detach the inside panel with FRONT ASSY by loosening the packing.
- 3) After detaching the inside panel, it is able to detach the LED and SW ASSYS.



■ Removing the Subwoofer

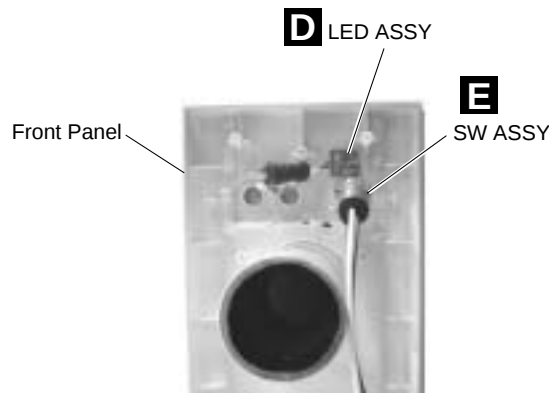
- 1) The speaker element is attached to the back board by 4 external screws ②. To detach it, unfasten those screws.
- 2) When attaching the speaker, face its terminal downward.

■ Removing the Transformer

- 1) The transformer is attached to the inner board by 4 screws ② from the rear side.
When detaching it, first remove the Amplifier Module and the subwoofer. And then, unfasten those screws.

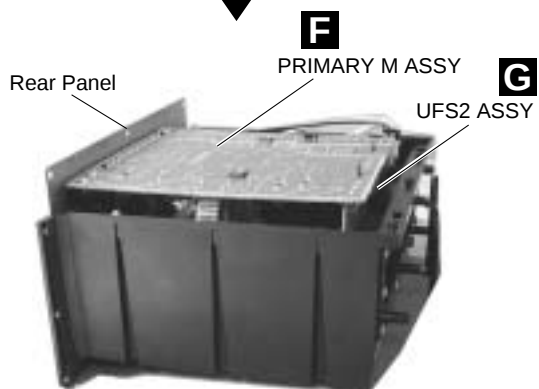
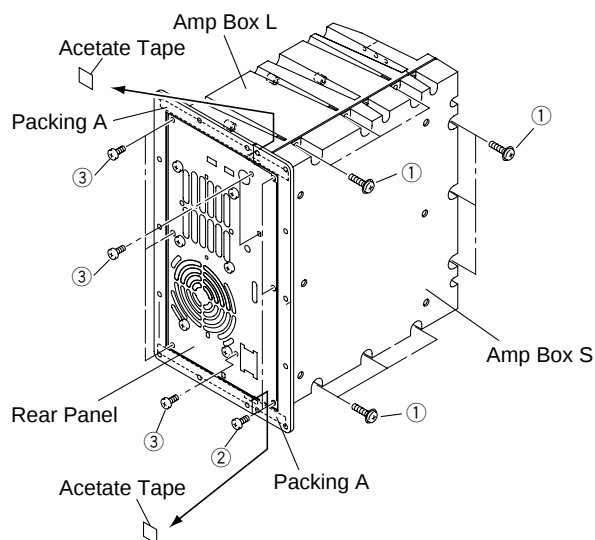
■ Removing the Front-side Assys (FRONT, LED and SW ASSYS)

- 1) The FRONT, LED and SW ASSYS are attached to the front panel. To detach them, it is necessary to remove front panel. First unfasten 5 screws ③ from the rear side of right figure. The front panel is attached to the baffle by press-fitting. To detach it, pry it open by inserting a flat blade screwdriver into lower side. Pull out the front panel loosening the packing around the duct and inside panel and the wire styling.

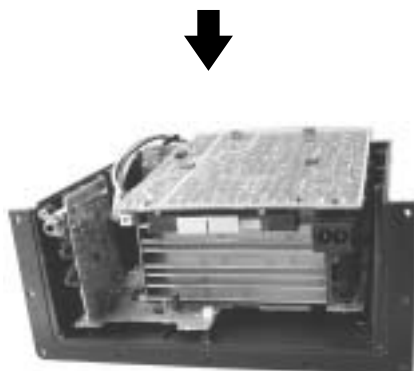


■ Removing the Amplifier Module Assys

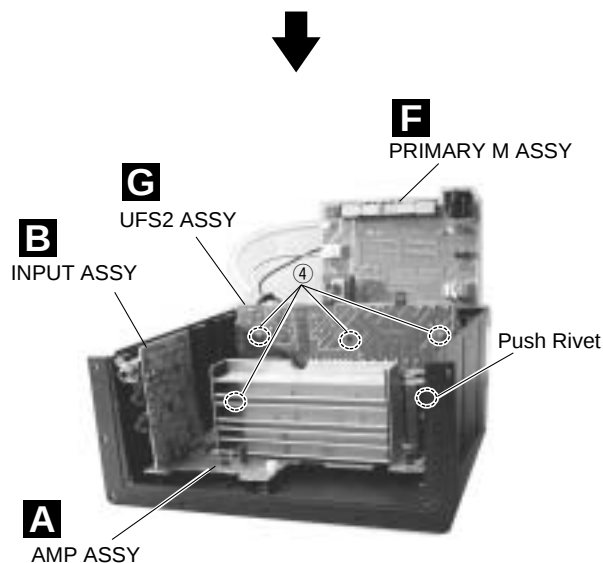
- 1) Unfasten 9 screws ① attaching Amp Box S and 3 screws ② attaching right side of the rear panel. Then remove the acetate tape pasted and cut the packing A like the figure below.
- 2) Remove the Amp Box S.



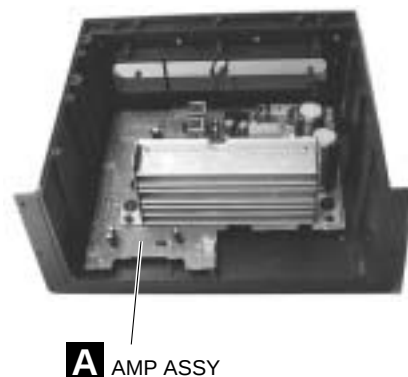
- 3) Unfasten 6 screws ③ attaching left and center side of the rear panel. Disconnect the fan cable.
- 4) Remove the rear panel.



- 5) Disconnect 3 board to board connectors between the PRIMARY M ASSY and the UFS2 ASSY.
- 6) Remove the PRIMARY M ASSY.



- 7) Disconnect board to board connector between the INPUT ASSY and the AMP ASSY.
- 8) Remove the INPUT ASSY.
- 9) Unfasten 4 screws ④ and remove the push rivet attaching the UFS2 ASSY.
- 10) Remove the UFS2 ASSY disconnecting 2 board to board connectors between the UFS2 ASSY and the AMP ASSY.

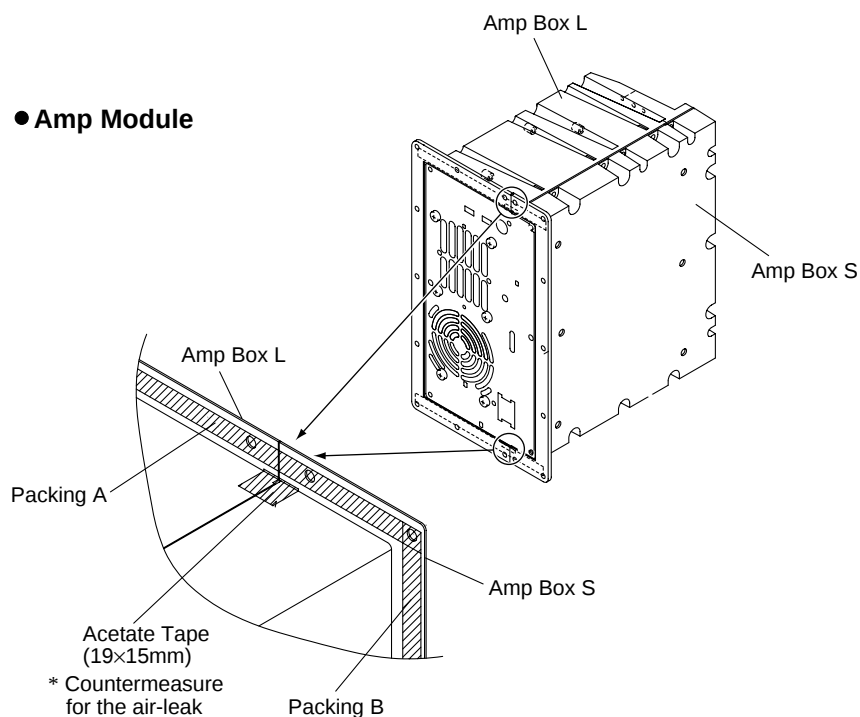


7.2 CAUTION FOR TAPE AND CABLE STYLING

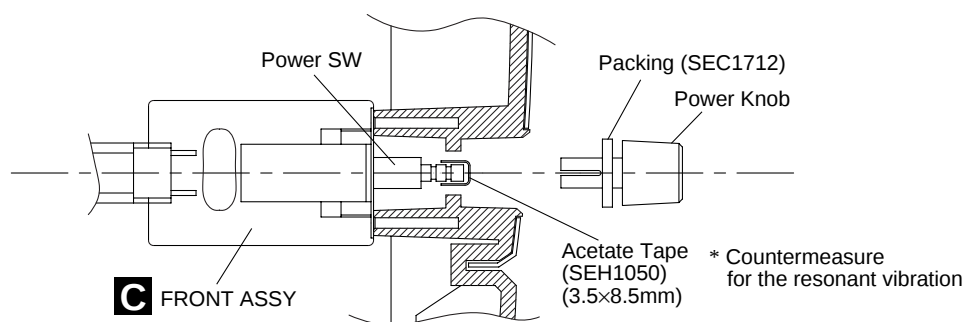
■ Pasting the Acetate Tape

Paste the Acetate Tape (GYH1030) to the point below.

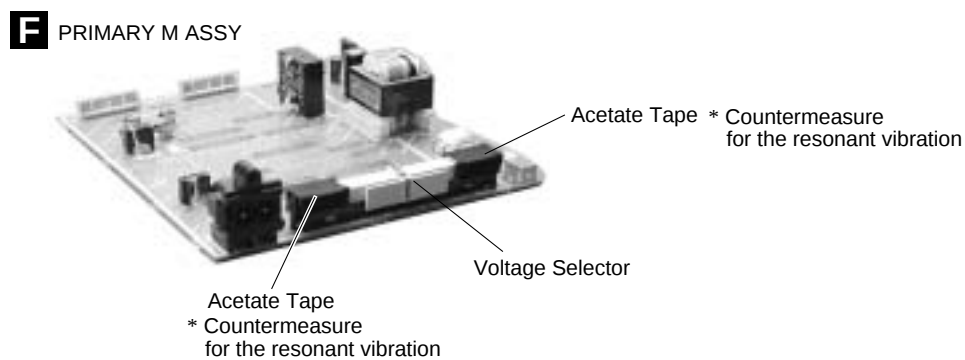
● Amp Module



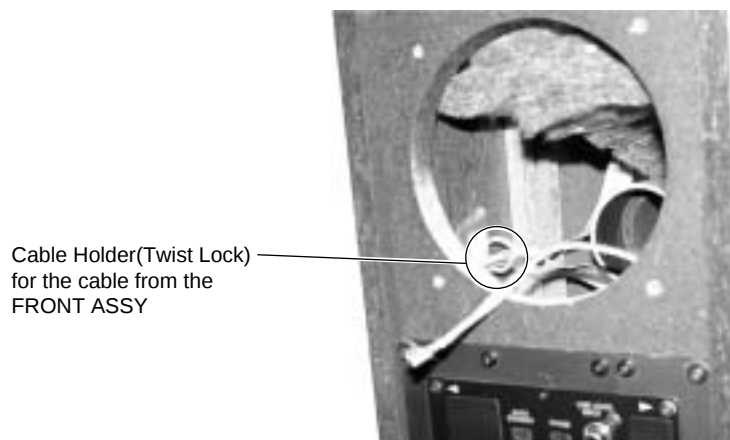
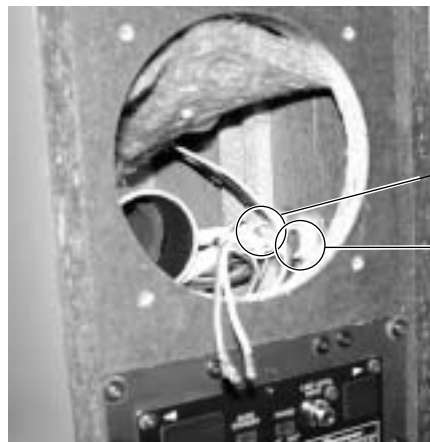
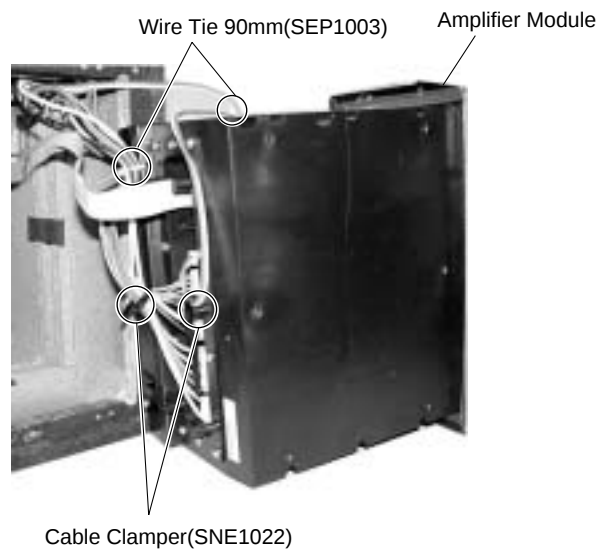
● Front Section



● PRIMARY M ASSY



■ Caution for Cable Styling



7.3 CLEANING

A



Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

B

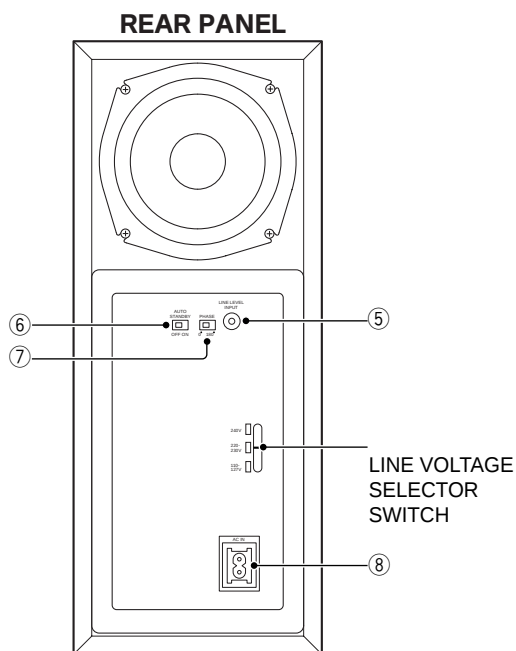
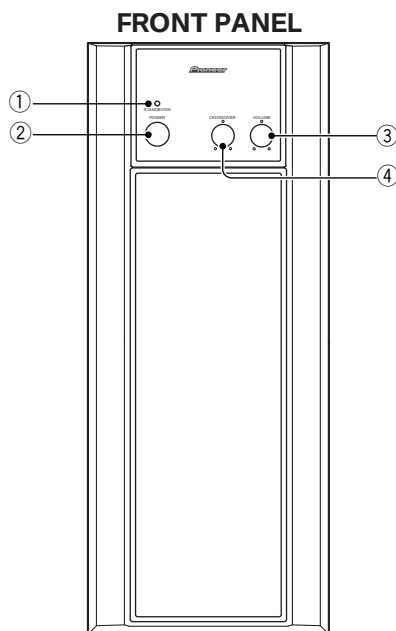
C

D

E

F

8. PANEL FACILITIES



1 Power indicator (STANDBY/ON)

Lights green when the power has been switched ON. If no signal is present for more than 8 minutes, the subwoofer automatically reverts to standby mode and the power indicator lights red. If, subsequently, a signal is received, power automatically comes back on and the power indicator lights green.

2 POWER switch

Pressing once switches the unit ON. Press again to switch OFF.

NOTE:

If you are planning on switching the unit OFF for a long period of time, make sure to check that the indicator light has gone out after switching OFF.

3 Volume knob (LEVEL)

Sets the subwoofer volume.

- Turn the knob slowly from the MIN position.
- With this unit, the bass level can be independently set, so do not turn up the bass on the stereo amplifier.

4 Crossover knob (CROSSOVER)

Sets the high limit of the frequency played back by the subwoofer. Set to MAX when using the supplied speaker system.

Setting Criteria

MIN..... when the diameter of the left/right speakers is 20 cm or more.

CENTER..... when the diameter of the left/right speakers is 10-25 cm.

MAX..... when the diameter of the left/right speakers is 12 cm or less.

5 Line Level Input terminal (LINE LEVEL INPUT)

Connects to the stereo amplifier's SUBWOOFER PRE-OUT terminal, with the specially provided RCA plug cord.

6 Auto Standby switch (AUTO STANDBY)

Switches the Auto Standby feature on/off.

Auto Standby

When switched ON (the default setting is OFF), the Auto Standby feature becomes active. In this mode, if there is no input signal for eight minutes the system automatically switches to standby. The power is automatically switched on again if an input signal is detected.

NOTE

- There may be cases where a connected component outputs noise or some other non-audio signal which causes this system to automatically power on when in Auto Standby mode. If this happens, switch off the Auto Standby mode and switch the system on/off manually.

7 Phase switch (PHASE 0°/180°)

When depressed (180°), the output phase becomes the reverse of the input signal, and when raised (0°), it is in the same phase as the input signal.

- **Normally, the switch is set to (0°).**
But when the sound connection between the subwoofer and the left and right speakers sounds unnatural, try switching to 180° and set the switch in the position where the sound is natural.

8 AC INLET

- Connect the power cord to the powered subwoofer unit's AC INLET.
- Connect the power cord to a AC socket.