

SERVICE MANUAL

MODEL	JP	E3	E2	EK	K2A	E1	E1K	EUT
PMA-1510AE			✓					

INTEGRATED AMPLIFIER

• For purposes of improvement, specifications and design are subject to change without notice.

• Please use this service manual with referring to the operating instructions without fail.

• Some illustrations using in this service manual are slightly different from the actual set.

SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

Be sure to test for leakage current with the AC plug in both polarities, in addition, in each power ON, OFF and STANDBY mode, if applicable.

CAUTION Please heed the points listed below during servicing and inspection.

◎ **Heed the cautions!**

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis, etc., have cautions indicated on labels. Be sure to heed these cautions and the cautions indicated in the handling instructions.

◎ **Caution concerning electric shock!**

- (1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.
- (2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ **Caution concerning disassembly and assembly!**

Through great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

◎ **Only use designated parts!**

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same properties. In particular, for the important safety parts that are marked \triangle on wiring diagrams and parts lists, be sure to use the designated parts.

◎ **Be sure to mount parts and arrange the wires as they were originally!**

For safety reasons, some parts use tape, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires and clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

◎ **Inspect for safety after servicing!**

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1M Ω or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists in this service manual. Be sure to replace them with parts with the designated part number.

- (1) Schematic diagrams Indicated by the \triangle mark.
- (2) Parts lists Indicated by the \triangle mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts marked with this symbol \triangle have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM / M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

NOTE FOR PARTS LIST

1. Parts for which "nsp" is indicated on this table cannot be supplied.
 2. When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
 3. Ordering part without stating its part number can not be supplied.
 4. Part indicated with the mark "★" is not illustrated in the exploded view.
 5. Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
 6. Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- WARNING:** Parts marked with this symbol \triangle have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

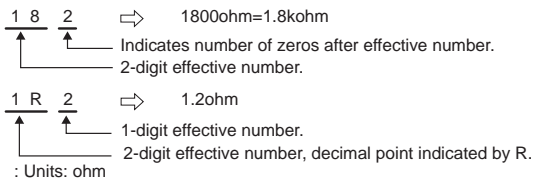
● Resistors

Ex.: RN 14K 2E 182 G FR

Type	Shape and performance	Power	Resistance	Allowable error	Others
↓	↓	↓	↓	↓	↓

RD : Carbon	2B : 1/8 W	F : ±1%	P : Pulse-resistant type
RC : Composition	2E : 1/4 W	G : ±2%	NL : Low noise type
RS : Metal oxide film	2H : 1/2 W	J : ±5%	NB : Non-burning type
RW: winding	3A : 1 W	K : ±10%	FR : Fuse-resistor
RN : Metal film	3D : 2 W	M : ±20%	F : Lead wire forming
RK : Metal mixture	3F : 3 W		
	3H : 5 W		

* Resistance



● Capacitors

Ex.: CE 04W 1H 3R2 M BP

Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
↓	↓	↓	↓	↓	↓

CE : Aluminum foil electrolytic	0J : 6.3 V	F : ±1%	HS : High stability type
CA : Aluminium solid electrolytic	1A : 10 V	G : ±2%	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16 V	J : ±5%	HR : Ripple-resistant type
CQ : Film	1E : 25 V	K : ±10%	DL : For change and discharge
CK : Ceramic	1V : 35 V	M : ±20%	HF : For assuring high frequency
CC : Ceramic	1H : 50 V	Z : ±80%	U : UL part
CP : Oil	2A : 100 V	- : -20%	C : CSA part
CM : Mica	2B : 125 V	P : +100%	W : UL-CSA part
CF : Metallized	2C : 160 V	C : ±0.25pF	F : Lead wire forming
CH : Metallized	2D : 200 V	D : ±0.5pF	
	2E : 250 V	= : Others	
	2H : 500 V		
	2J : 630 V		

* Capacity (electrolyte only)



* Capacity (except electrolyte)



· When the dielectric strength is indicated in AC,"AC" is included after the dielectric strength value.

TECHNICAL SPECIFICATIONS

Power amplifier section

Rated Output Power :

2-channel driving (CD → SP OUT)
70 W + 70 W (8 Ω, 20 Hz ~ 20 kHz, T.H.D. 0.07 %)

Dynamic power :

140 W + 140 W (4 Ω, DIN, 1 kHz, T.H.D. 0.7 %)

High frequency distortion :

0.01 % (Rated output: -3 dB), 8 Ω, 1 kHz

Output terminals : Speaker A or B: 4 ~ 16 Ω

A + B: 8 ~ 16 Ω

Suited for headphones/stereo headphones

Input sensitivity/Input impedance :

POWER AMP DIRECT: 0.84 V / 47 kΩ

Amplification factor: 29 dB

Pre amplifier section

Equalizer amplifier output : 150 mV (REC OUT terminals)

Input/output level and impedance :

PHONO (MM): 2.5 mV/47 kΩ

PHONO (MC): 200 μV/100 Ω

CD, TUNER, LINE, RECORDER-1, RECORDER-2:

125 mV/45 kΩ (SOURCE DIRECT OFF)

125 mV/24 kΩ (SOURCE DIRECT ON)

RIAA Deviation : PHONO: 20 Hz ~ 20 kHz ±0.5 dB

Maximum Input : PHONO (MM): 150 mV/1 kHz

PHONO (MC): 13 mV/1 kHz

Rated Output : PRE OUT: 0.84 V (Input CD 125 mV)

Overall performance

SN Ratio (A network) :

PHONO (MM): 89 dB

(With input terminals short-circuited, 5 mV input signal)

PHONO (MC): 74 dB

(With input terminals short-circuited, 0.5 mV input signal)

CD, TUNER, LINE, RECORDER-1, RECORDER-2:

108 dB (input terminals short-circuited)

Tone control :

BASS: 100 Hz ±8 dB

TREBLE: 10 kHz ±8 dB

General

Power supply : AC 230 V, 50 Hz

Power consumption :

285 W

0.2 W (Standby)

0.1 W (ECO Standby)

Maximum external dimensions :

434 (W) x 134 (H) x 410 (D) mm

Weight: 15.5 kg

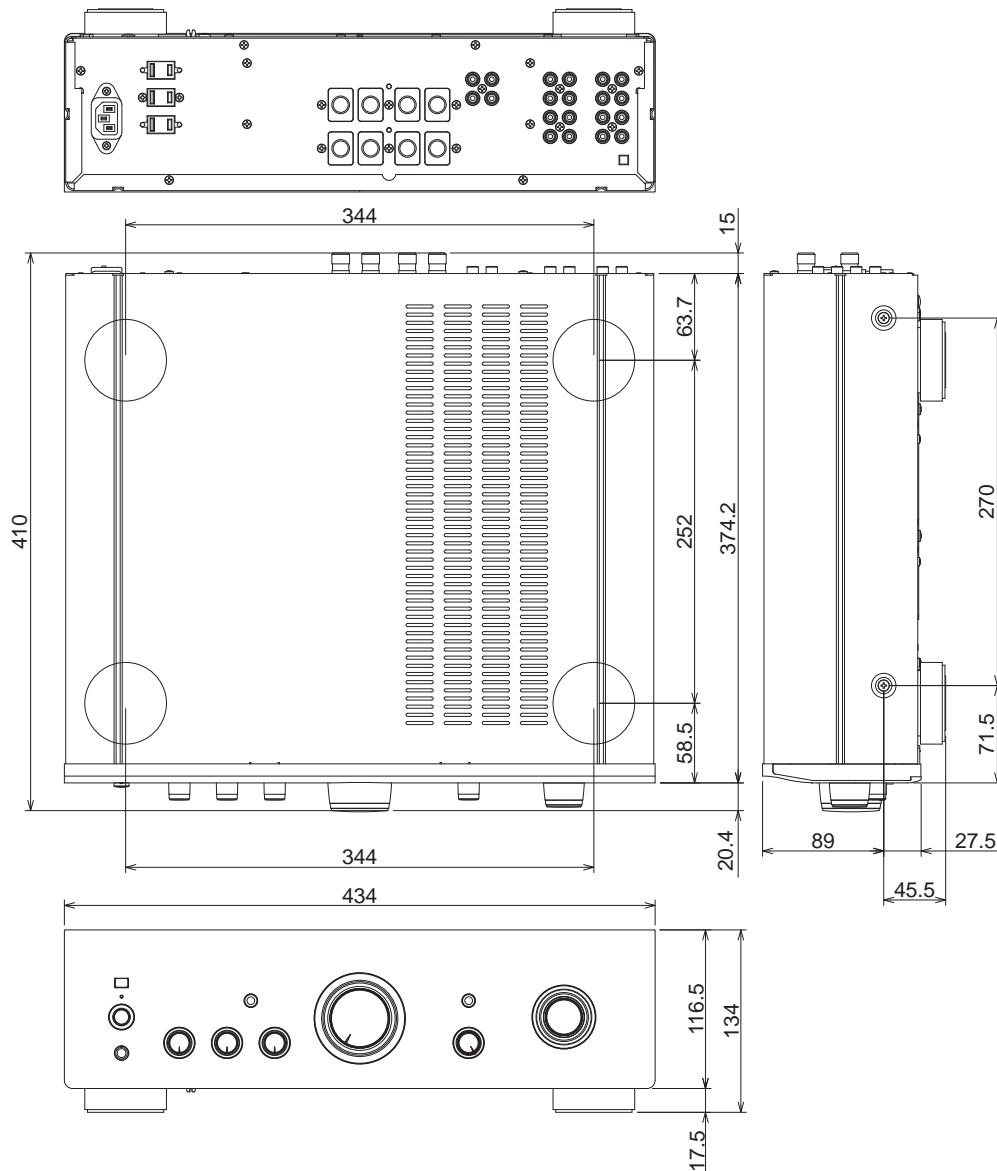
Remote control (RC-1143)

Batteries : R03/AAA Type (two batteries)

Maximum external dimensions : 49 (W) x 220 (H) x 21 (D) mm

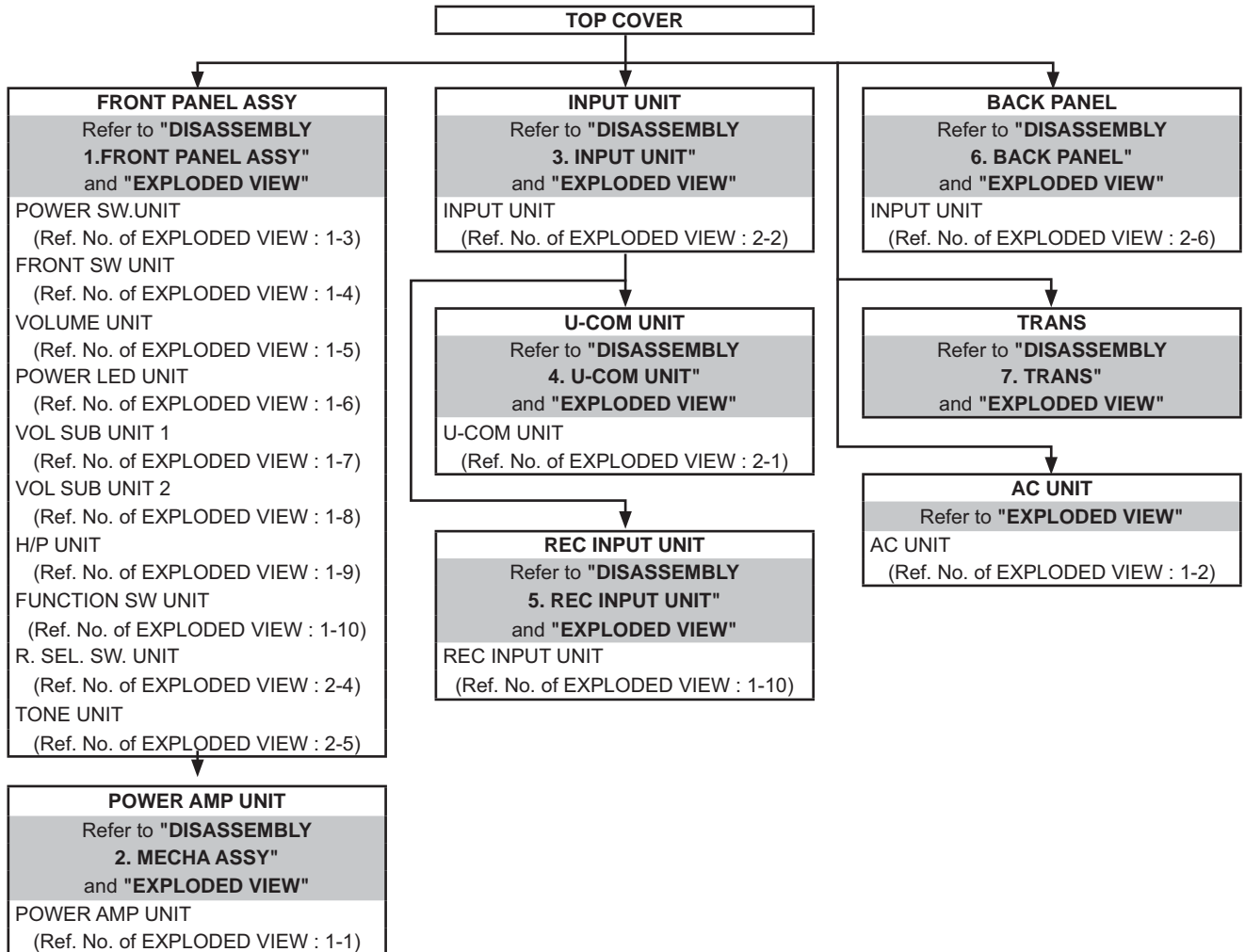
Weight : 110 g (including batteries)

DIMENSION



DISASSEMBLY

- Disassemble in order of the arrow of the figure of following flow.
 - In the case of the re-assembling, assemble it in order of the reverse of the following flow.
 - In the case of the re-assembling, observe "attention of assembling" it.
 - If wire bundles are untied or moved to perform adjustment or parts replacement etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
- Otherwise, incorrect arrangement can be a cause of noise generation.

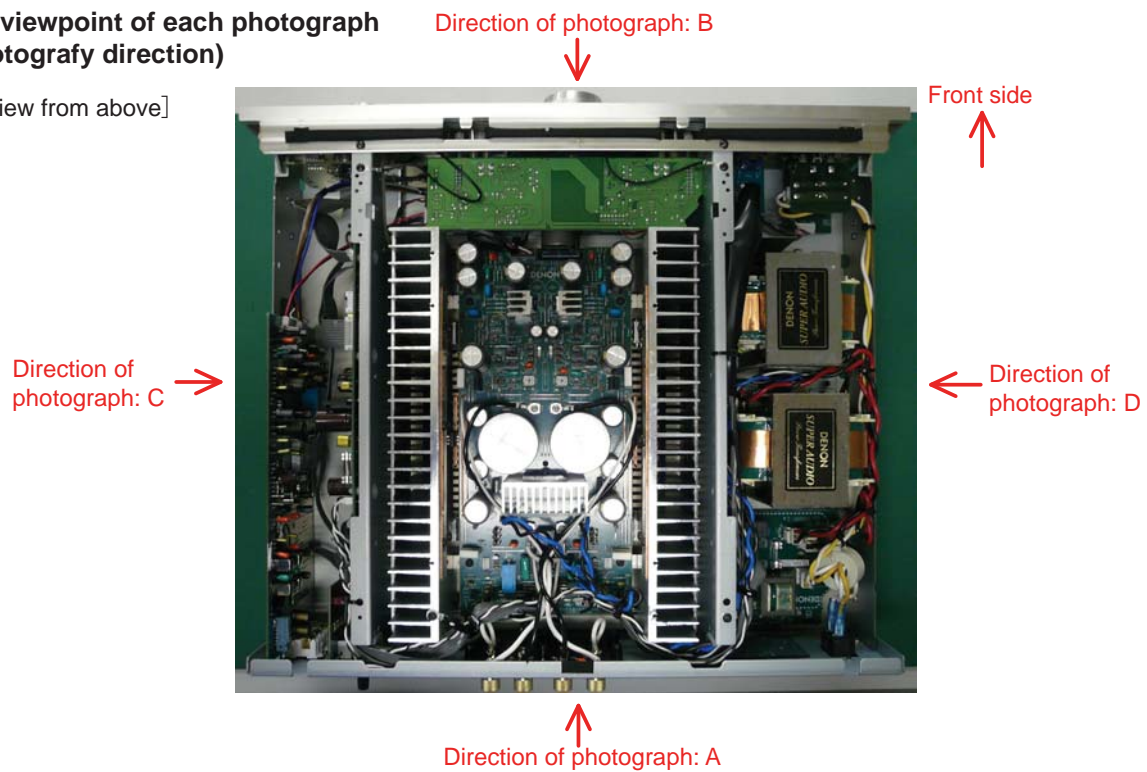


About the photos used for descriptions in the DISASSEMBLY" section.

- The direction from which the photographs used herein were photographed is indicated at "Direction of photograph: ****" at the left of the respective photographs.
- Refer to the table below for a description of the direction in which the photos were taken.
- Photographs for which no direction is indicated were taken from above the product.

The viewpoint of each photograph (Photografy direction)

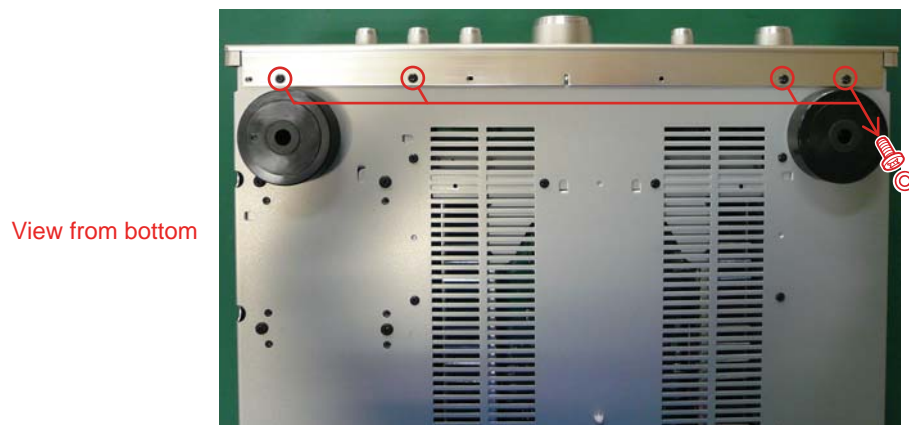
[View from above]



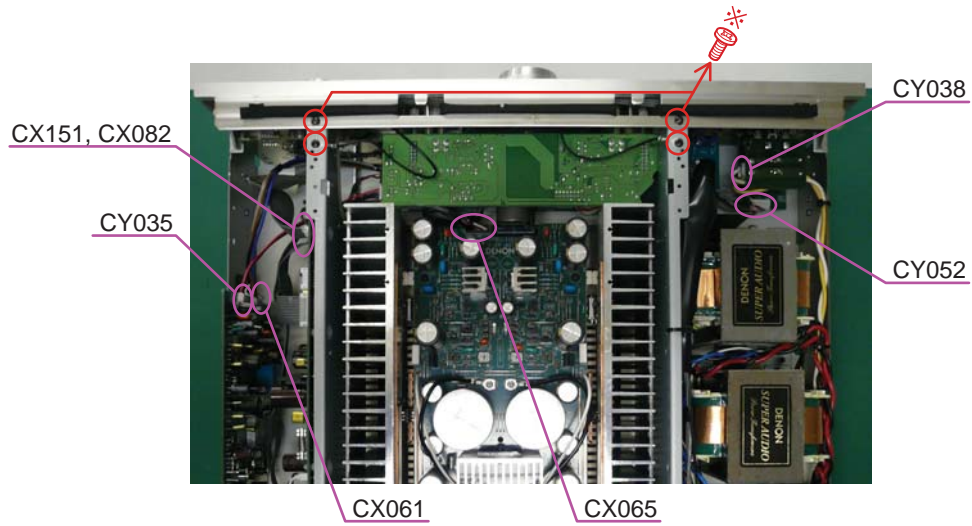
1. FRONT PANEL ASSY

Proceeding : **TOP COVER** → **FRONT PANEL ASSY**

- (1) Remove the screws.

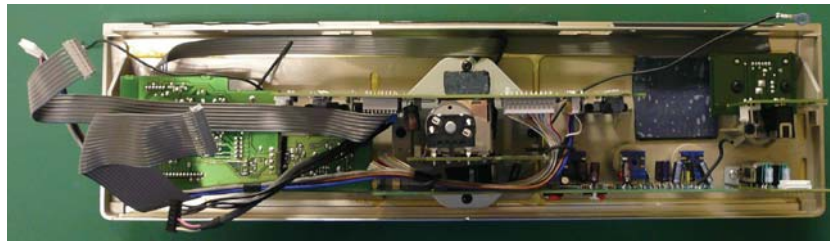


(2) Disconnect the connector wires, then remove the screws.



< Attention of assembling >

Fix the wiring of the wire like this photograph.

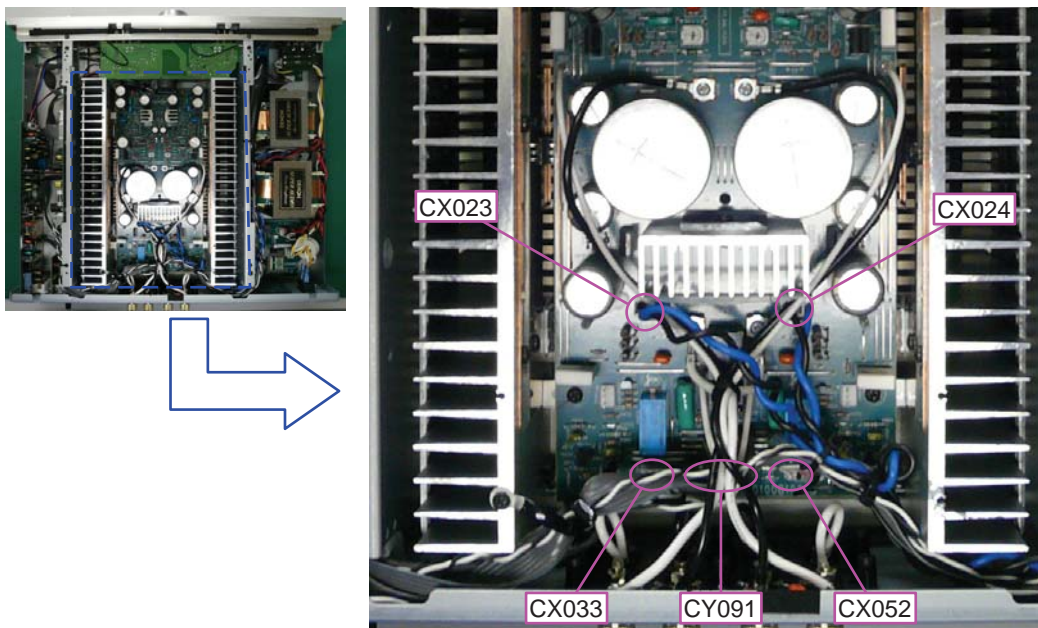


Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in FRONT PANEL ASSY.

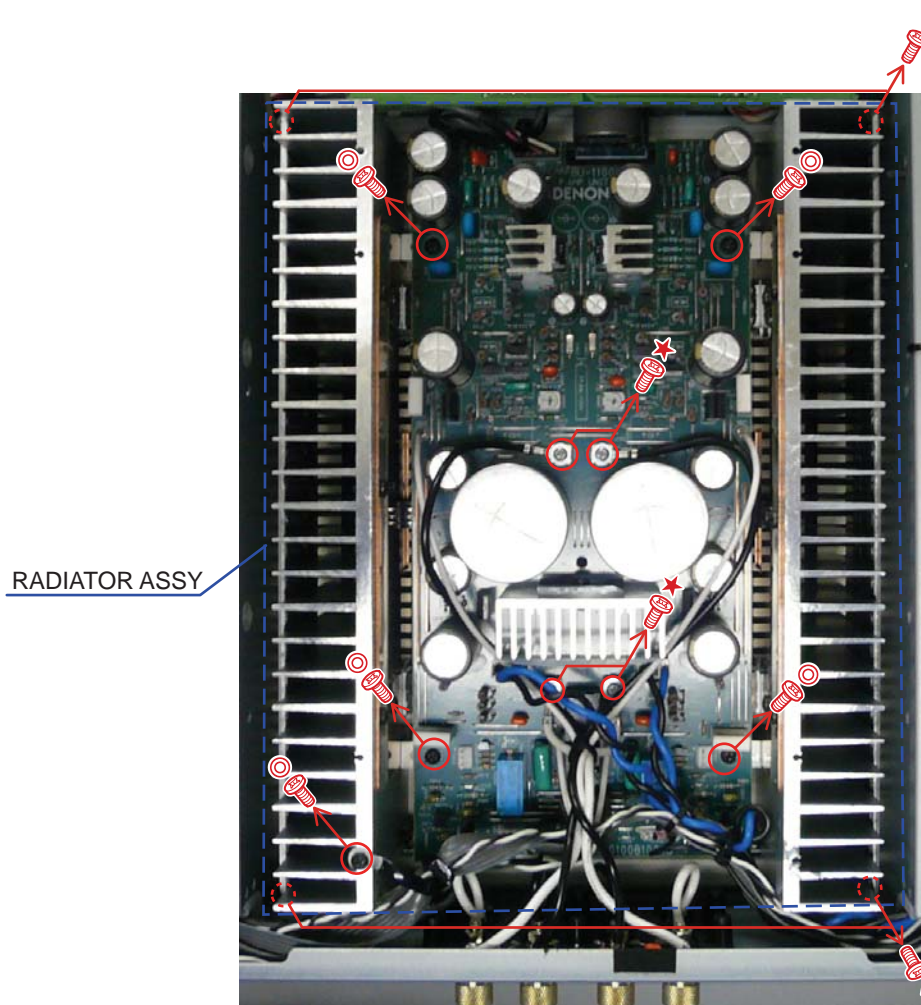
2. POWER AMP UNIT

Proceeding : **TOP COVER** → **FRONT PANEL ASSY** → **POWER AMP UNIT**

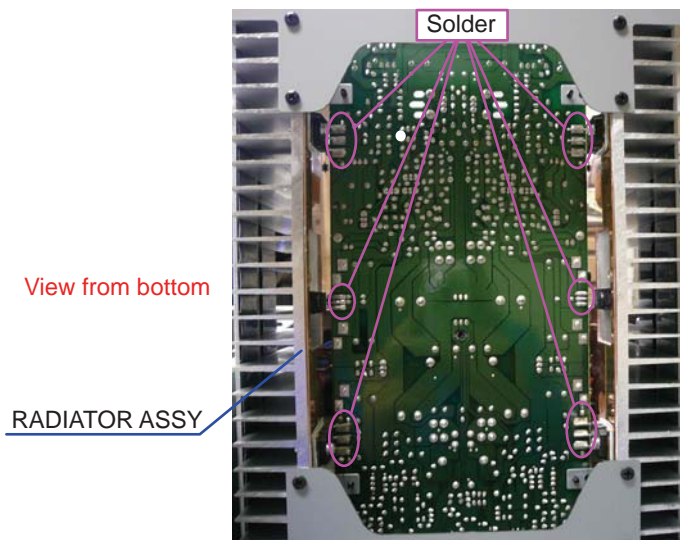
- (1) Disconnect the connector wires.



- (2) Remove the screws and P.W.B. HOLDER, then remove RADIATOR ASSY from the set.



(3) Remove the solder.

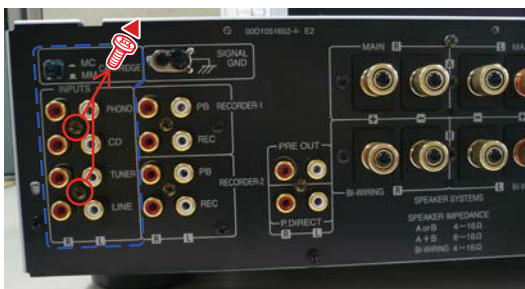


3. INPUT UNIT

Proceeding : **TOP COVER** → **INPUT UNIT**

(1) Remove the screws.

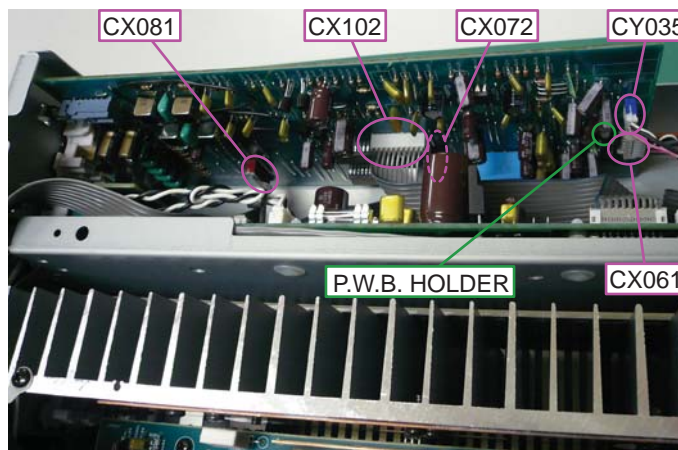
Direction of photograph: A



(2) Disconnect the connector wires, then remove the P.W.B. HOLDER.



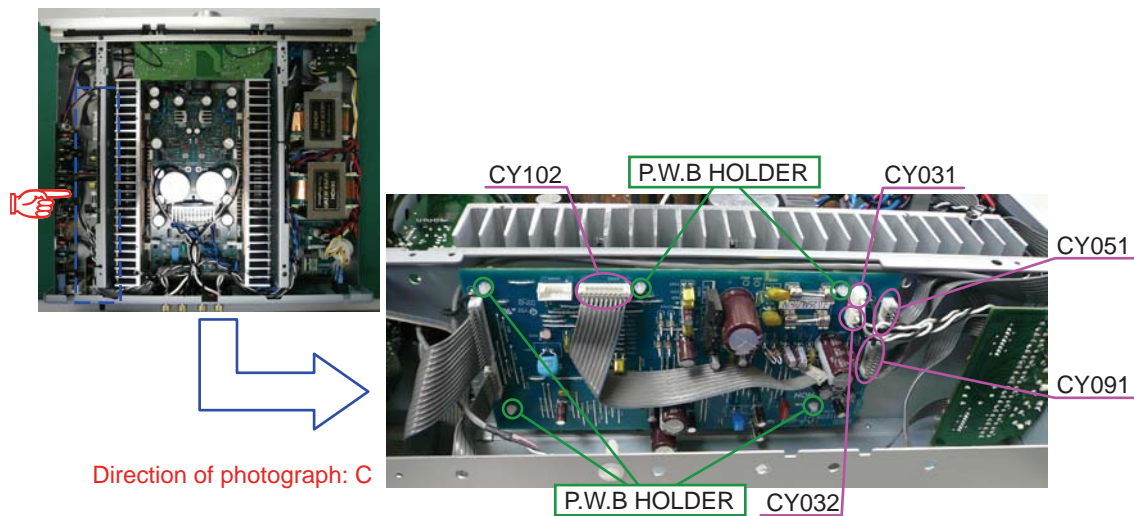
Direction of photograph: D



4. U-COM UNIT

Proceeding : **TOP COVER** → **INPUT UNIT** → **U-COM UNIT**

- (1) Disconnect the connector wires, then remove the P.W.B. HOLDER.

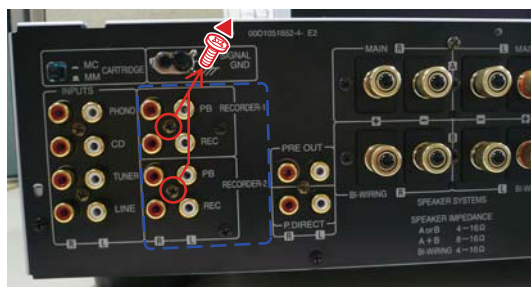


5. REC INPUT UNIT

Proceeding : **TOP COVER** → **U-COM UNIT** → **REC INPUT UNIT**

- (1) Remove the screws.

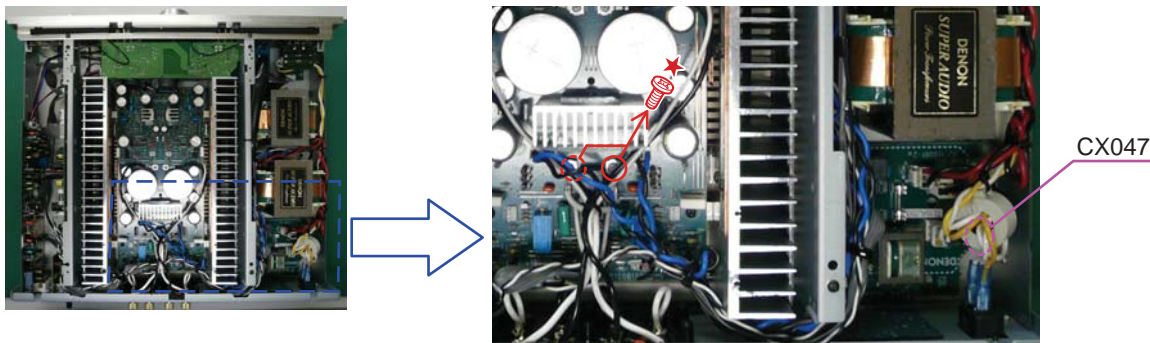
Direction of photograph: A



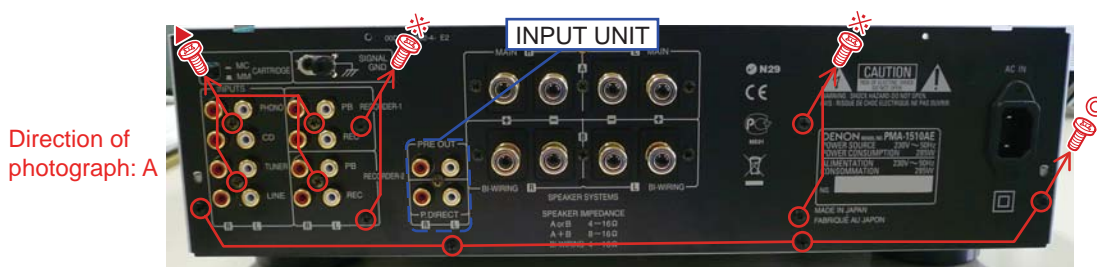
6. BACK PANEL

Proceeding : **TOP COVER** → **BACK PANEL**

- (1) Disconnect the connector wire, then remove the screws.



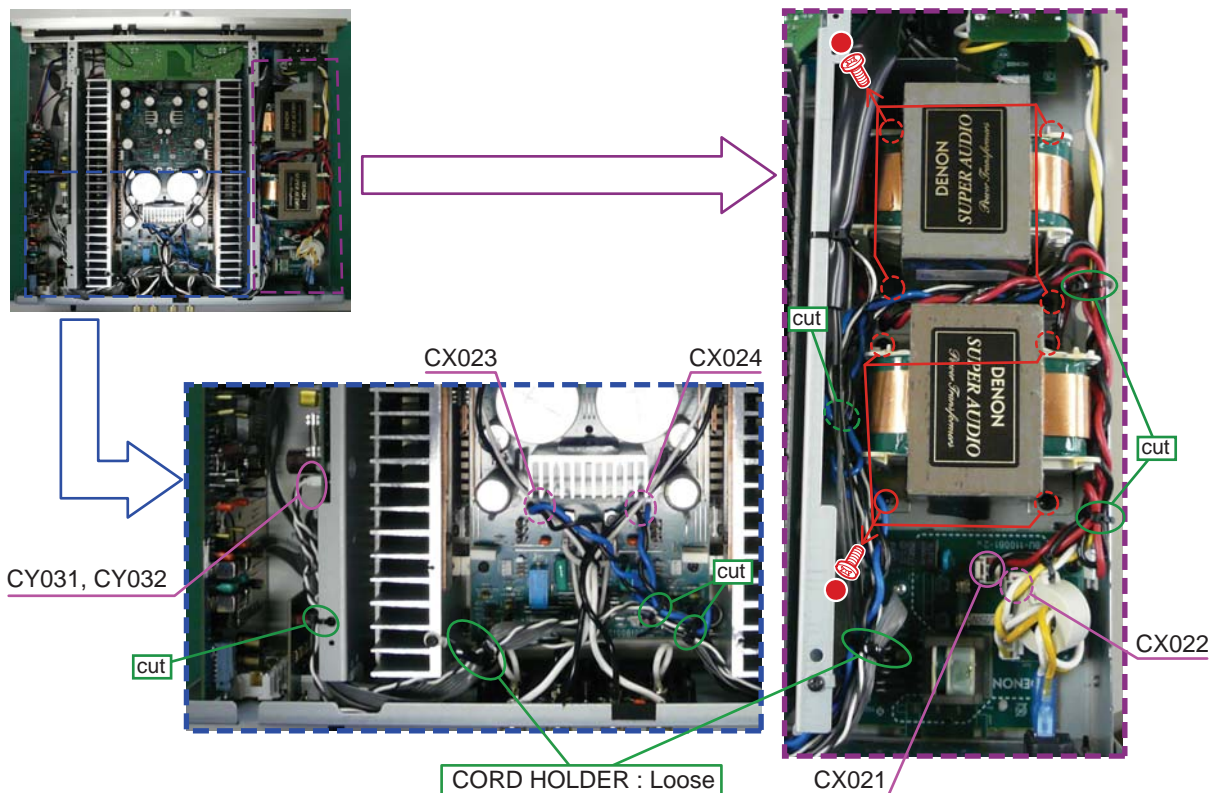
- (2) Remove the screws.



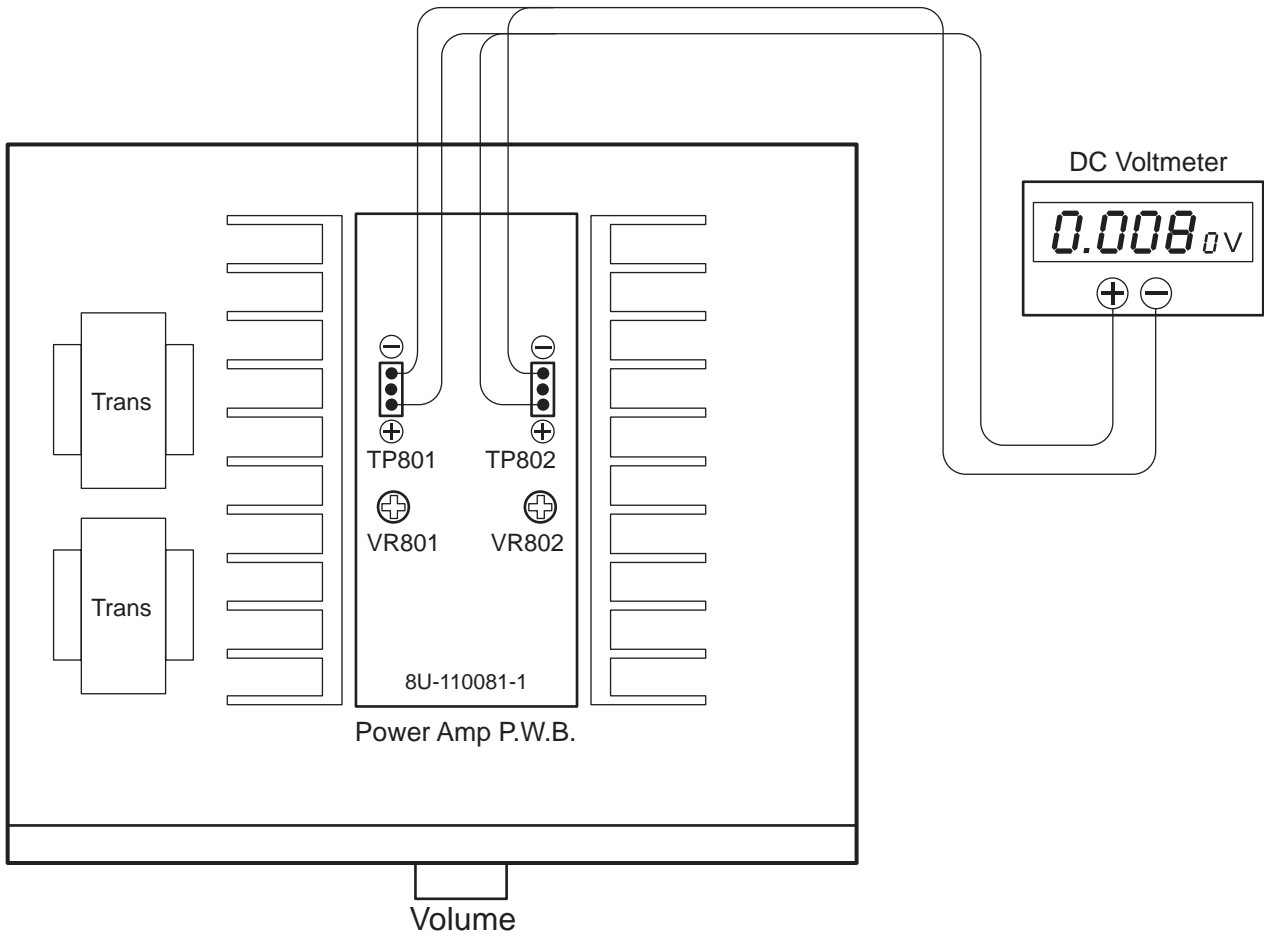
7. TRANS

Proceeding : **TOP COVER** → **TRANS**

- (1) Cut the wire clamp band, then disconnect the connector wires. Remove the screws.



IDLING ADJUSTMENT



IDLING CURRENT

• Setup

1. Place the unit at an ordinary position avoiding direct air flow from an air-conditioner or fan. Do the adjustment at a temperature between 15°C (59°F) and 30°C (86°F).
2. Set control as follows.

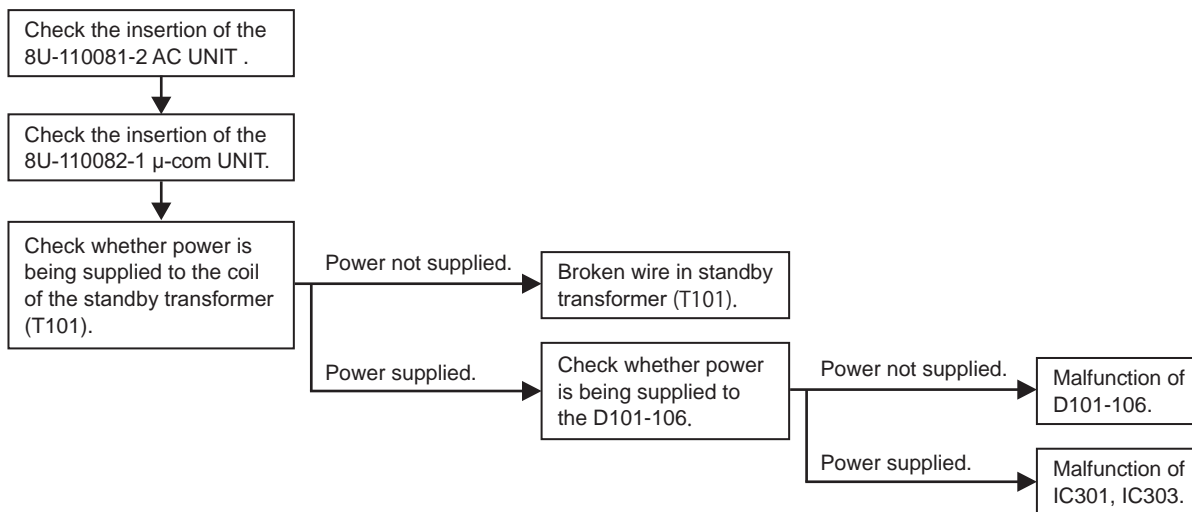
POWER switch	→	OFF (■).
VOLUME control	→	Fully counterclockwise (∩ min).
SPEAKER terminals	→	Open: do not connect the speakers, dummy load etc.

• Adjustment

1. Remove top cover. And then connect DC voltmeter to the test points TP801 and TP802 of POWER AMP P.W.B. (8U-110081-1).
2. Connect power cord to AC230V (218~242V) (Europe & Asia models) or (AC120V (114~126V) (U.S.A, Canada & TAIWAN R.O.C. models) wall outlet, and turn POWER switch "ON" (■).
3. Right after power on, adjust VR801 and VR802 so that the DC voltmeter reads $10 \pm 2\text{mV}$.
4. Then after 2 minutes warmup adjust VR801 and VR802 so that the DC voltmeter reads $10 \pm 1\text{mV}$.
5. And after 10 minutes warmup adjust VR801 and VR802 so that the DC voltmeter reads $10 \pm 1\text{mV}$.

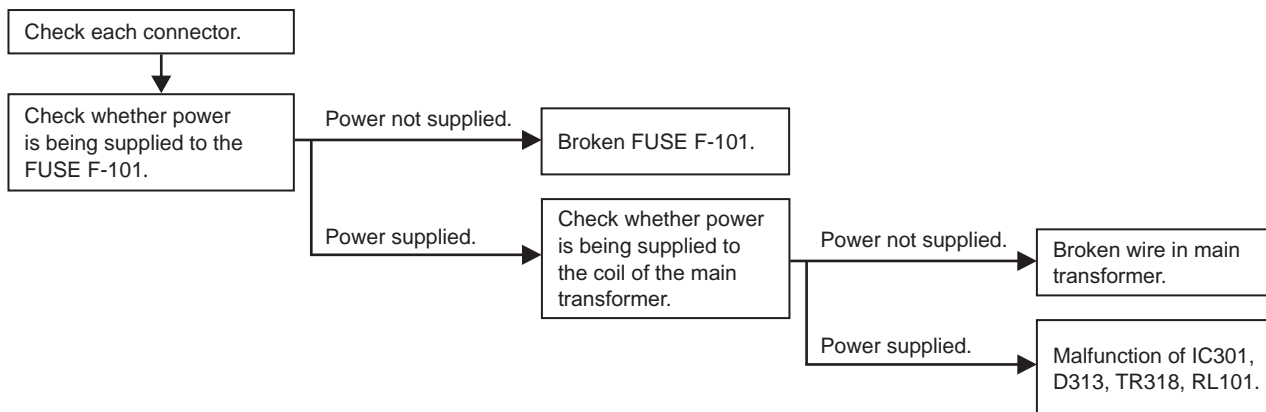
TROUBLE SHOOTING

1. The power can not be turned on. (Power indication LED does not light.)

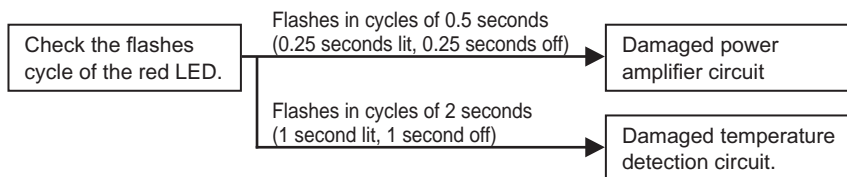


2. The power turned on, but a sound does not output normally. (Both channels)

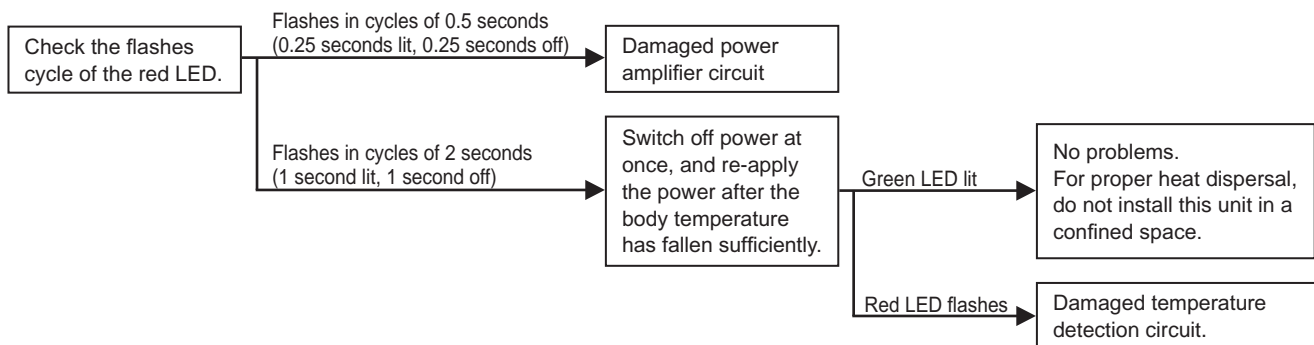
2.1 Set remains in standby mode.



2.2 Power indicator LED remains flashing red and muting mode is not canceled (protection mode is set).

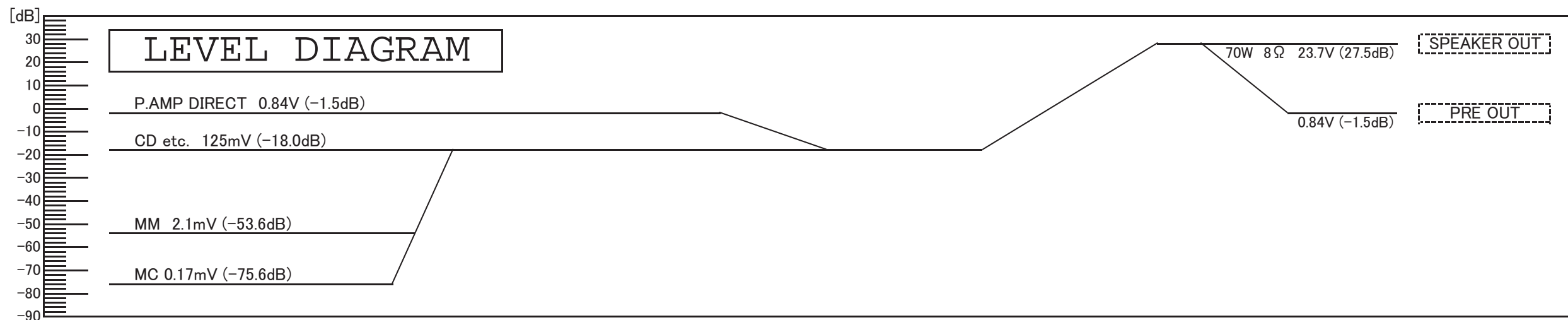
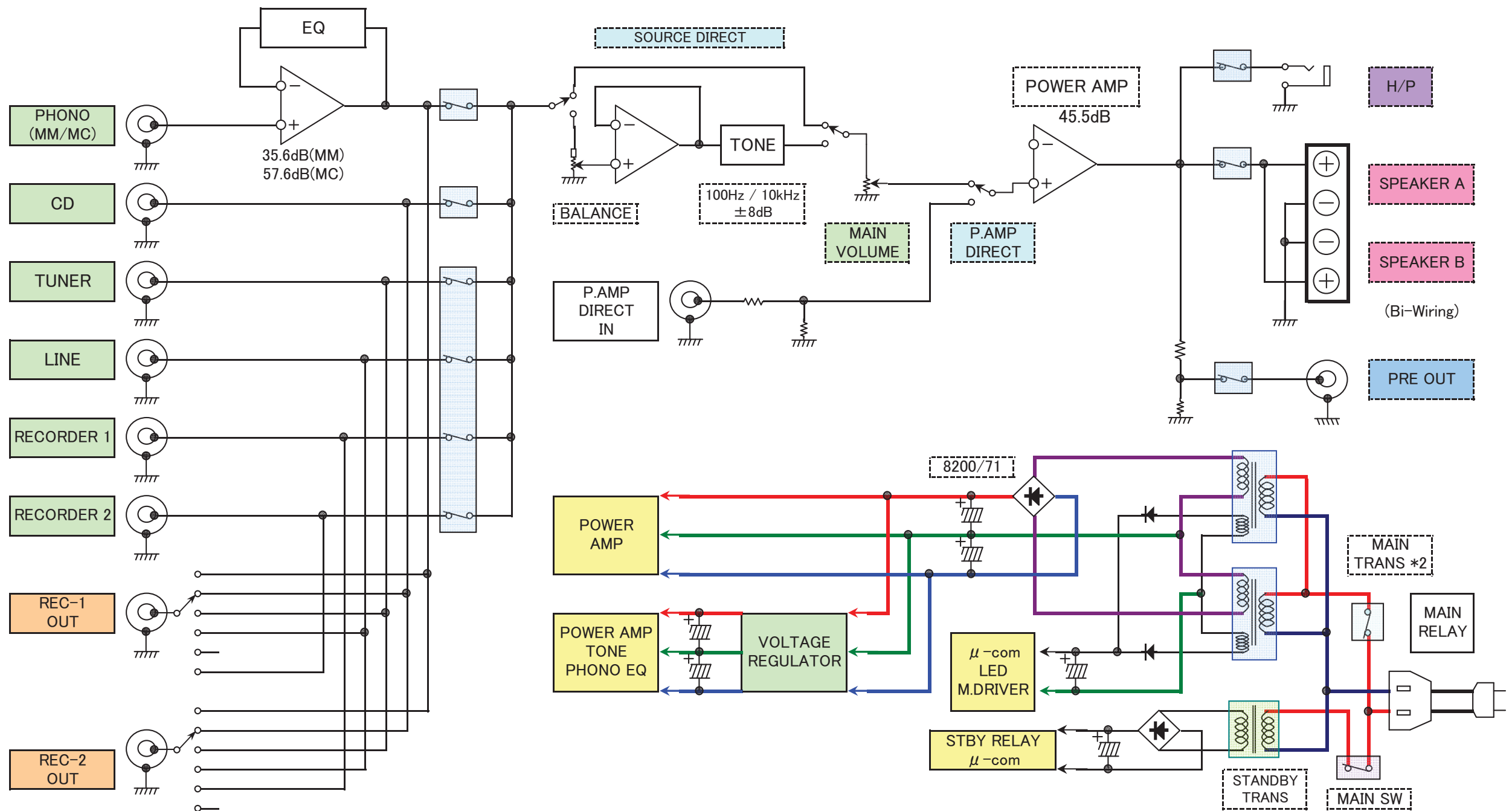


2.3 Set operates, but then power indicator LED flashes red (protection mode is set).

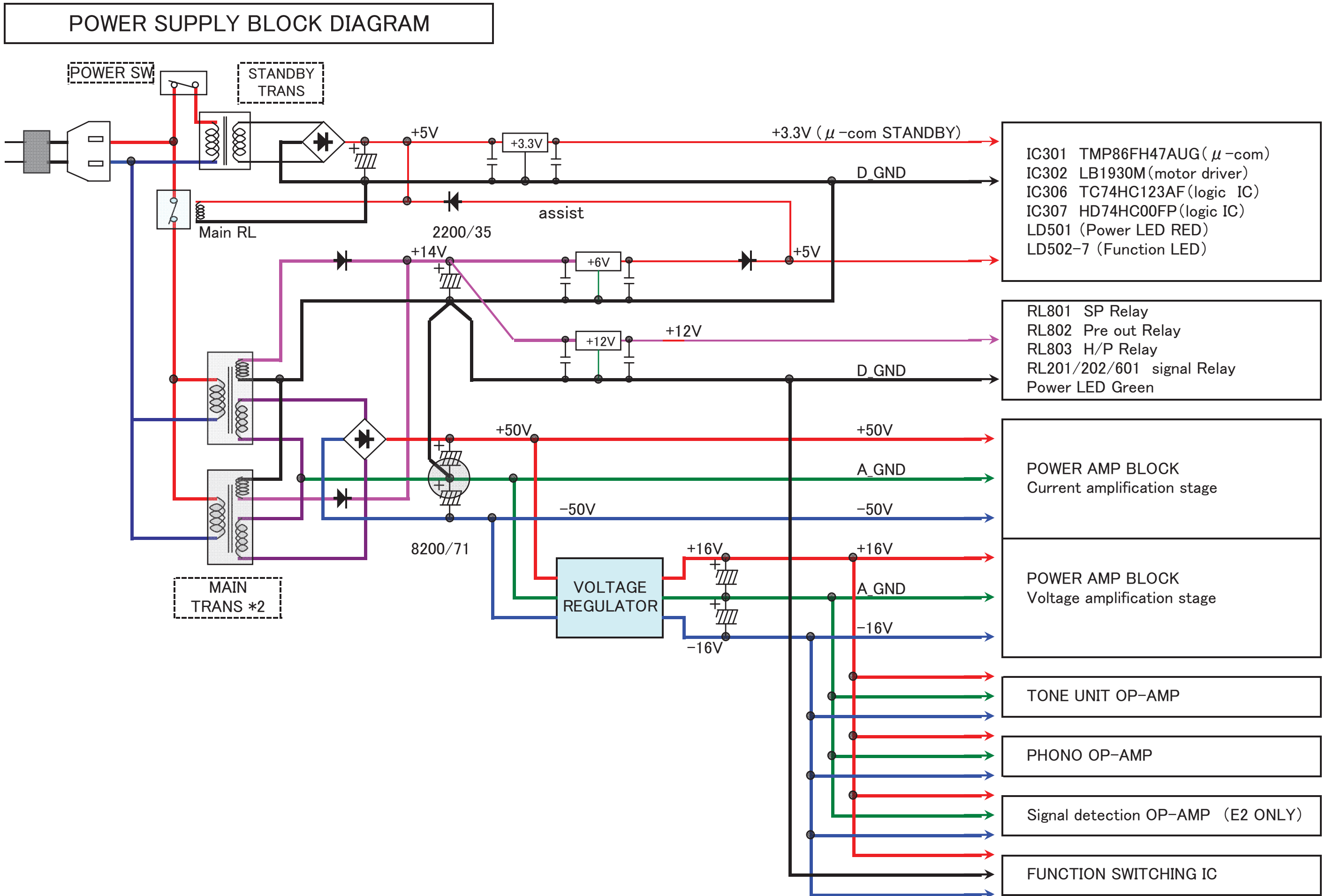


BLOCK DIAGRAM AND LEVEL DIAGRAM

BROCK DIAGRAM

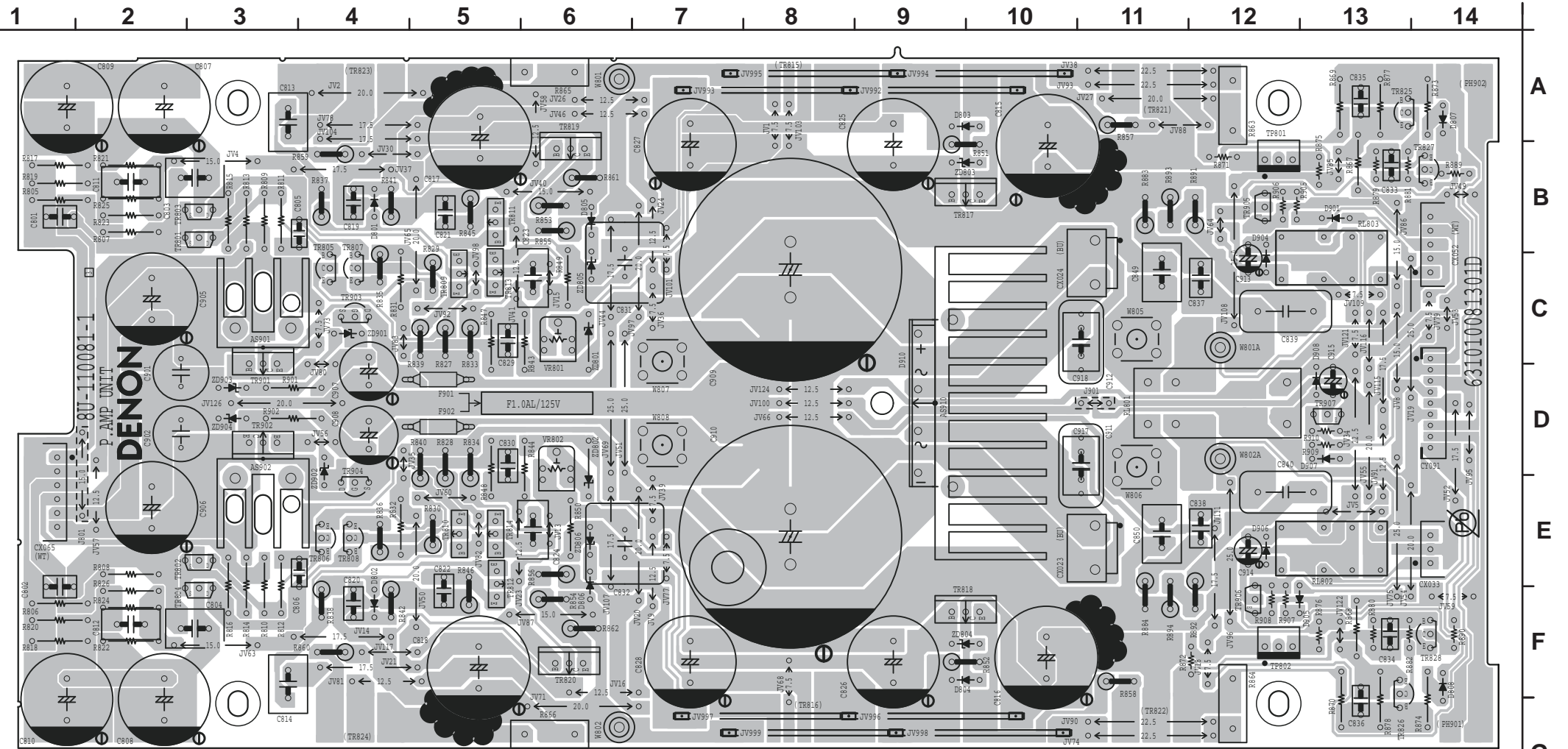


POWER SUPPLY BLOCK DIAGRAM

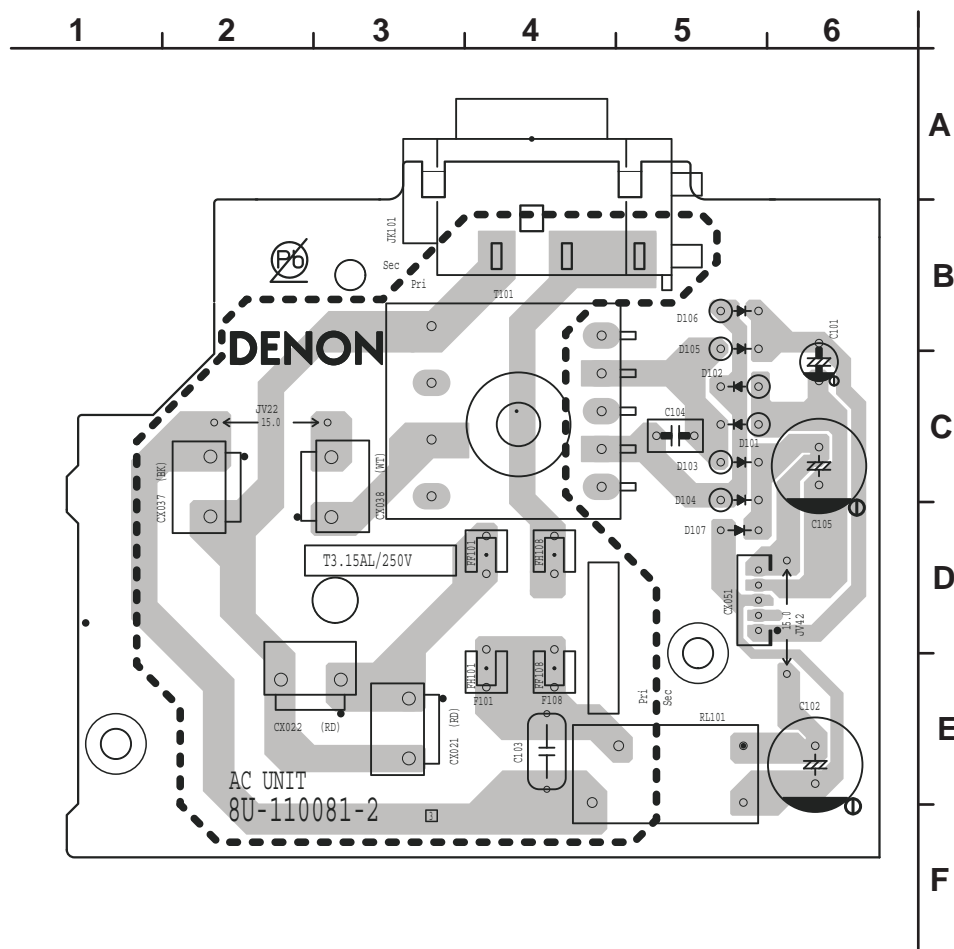


PRINTED WIRING BOARDS

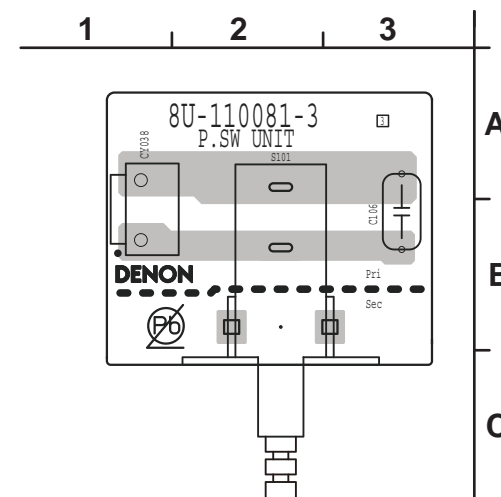
8U-110081-1 (COMPONENT SIDE)



8U-110081-2 (COMPONENT SIDE)



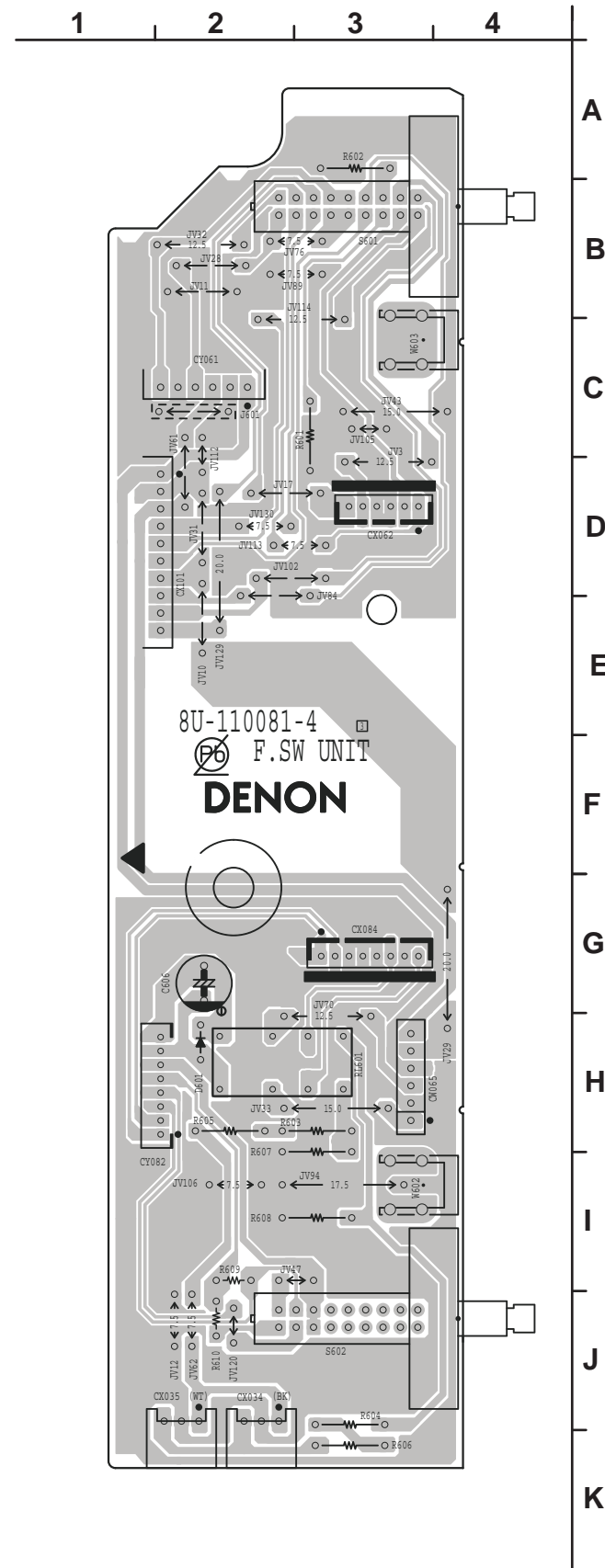
8U-110081-3 (COMPONENT SIDE)



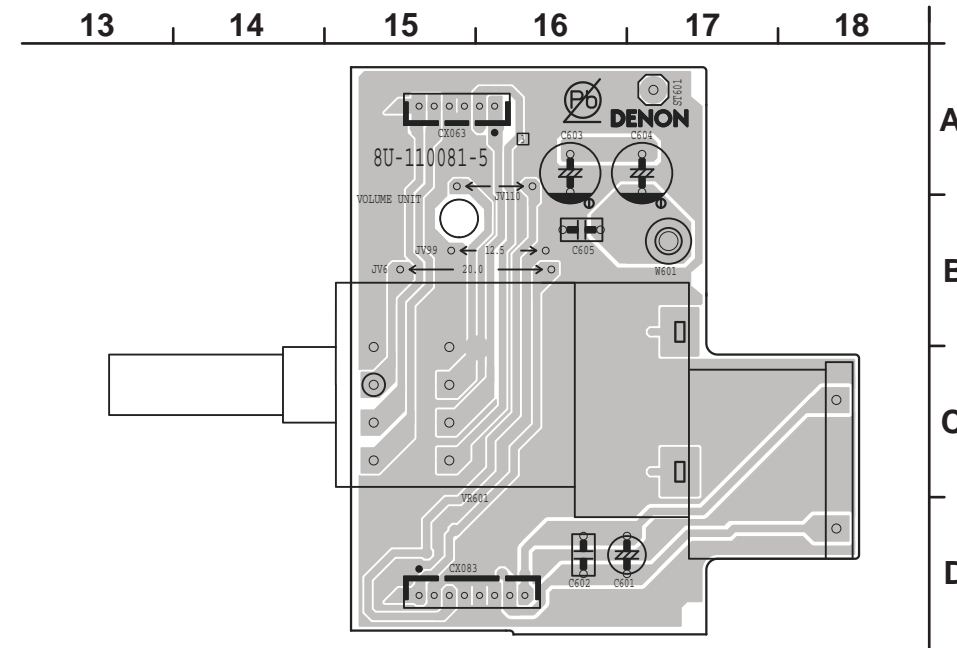
鉛フリー半田
半田付けには、鉛フリー半田(Sn-Ag-Cu)を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

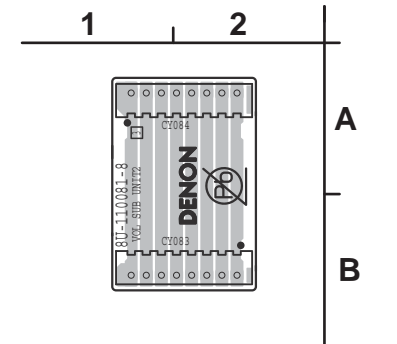
8U-110081-4 (COMPONENT SIDE)



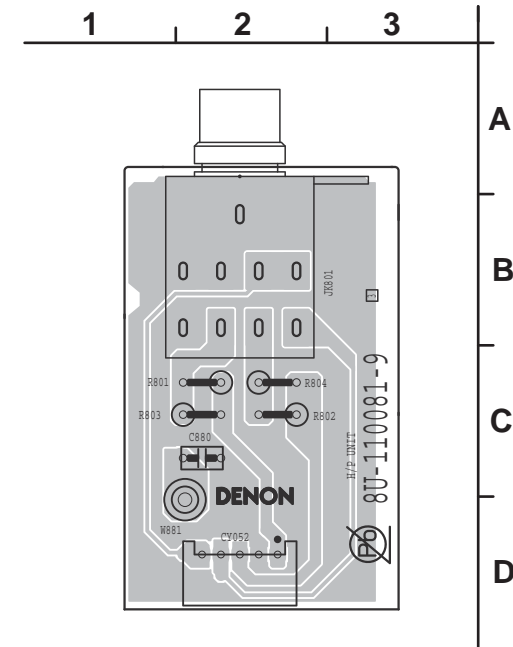
8U-110081-5 (COMPONENT SIDE)



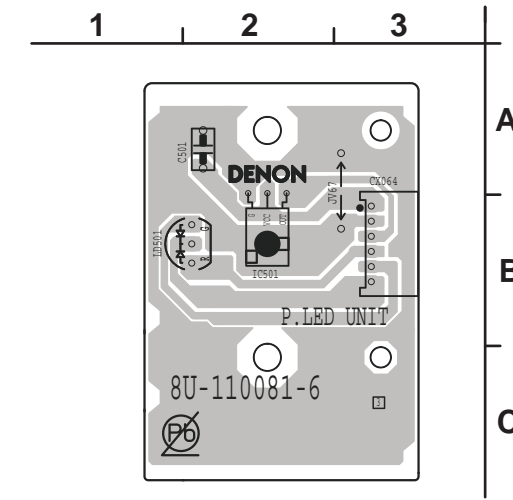
8U-110081-8 (COMPONENT SIDE)



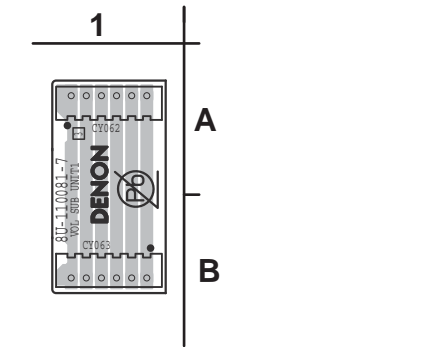
8U-110081-9 (COMPONENT SIDE)



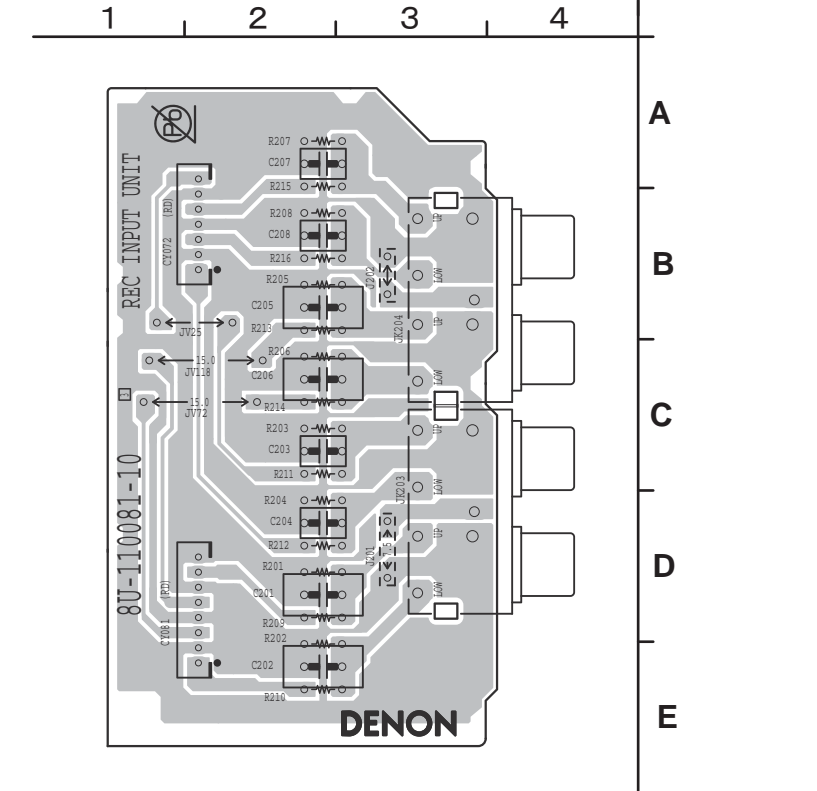
8U-110081-6 (COMPONENT SIDE)



8U-110081-7 (COMPONENT SIDE)



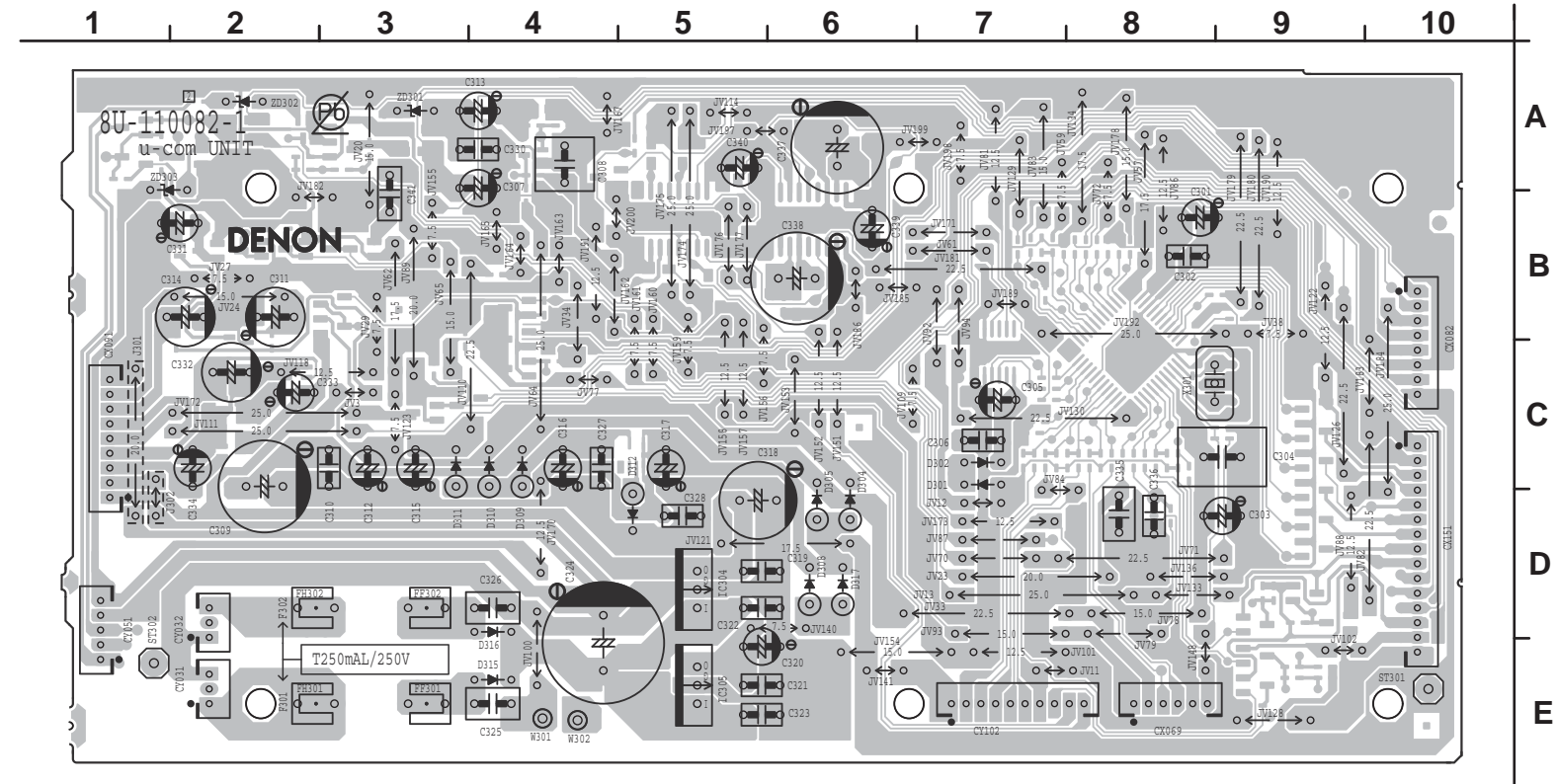
8U-110081-10 (COMPONENT SIDE)



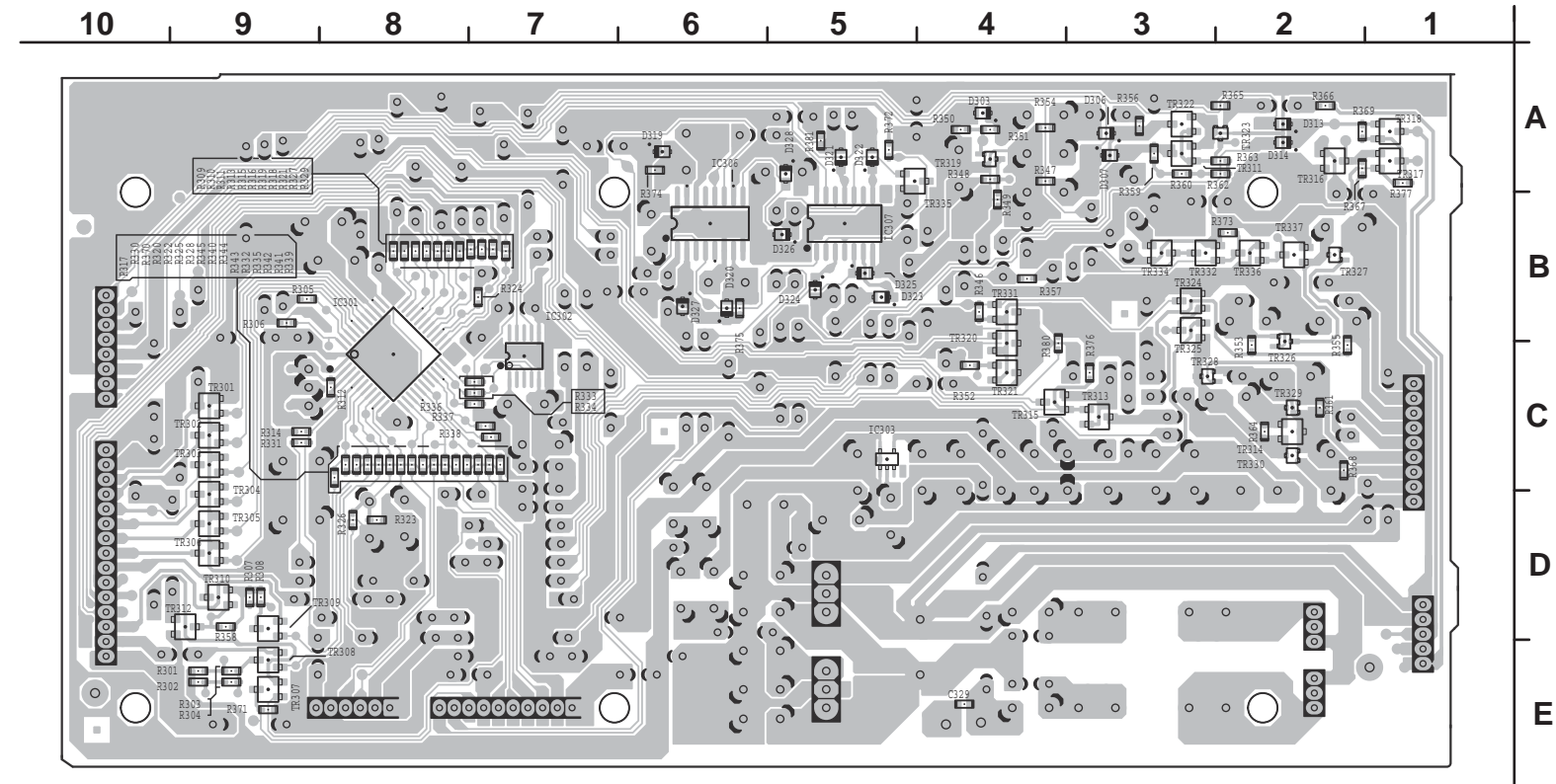
鉛フリー半田
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8U-210024-1 (COMPONENT SIDE)



8U-210024-1 (FOIL SIDE)

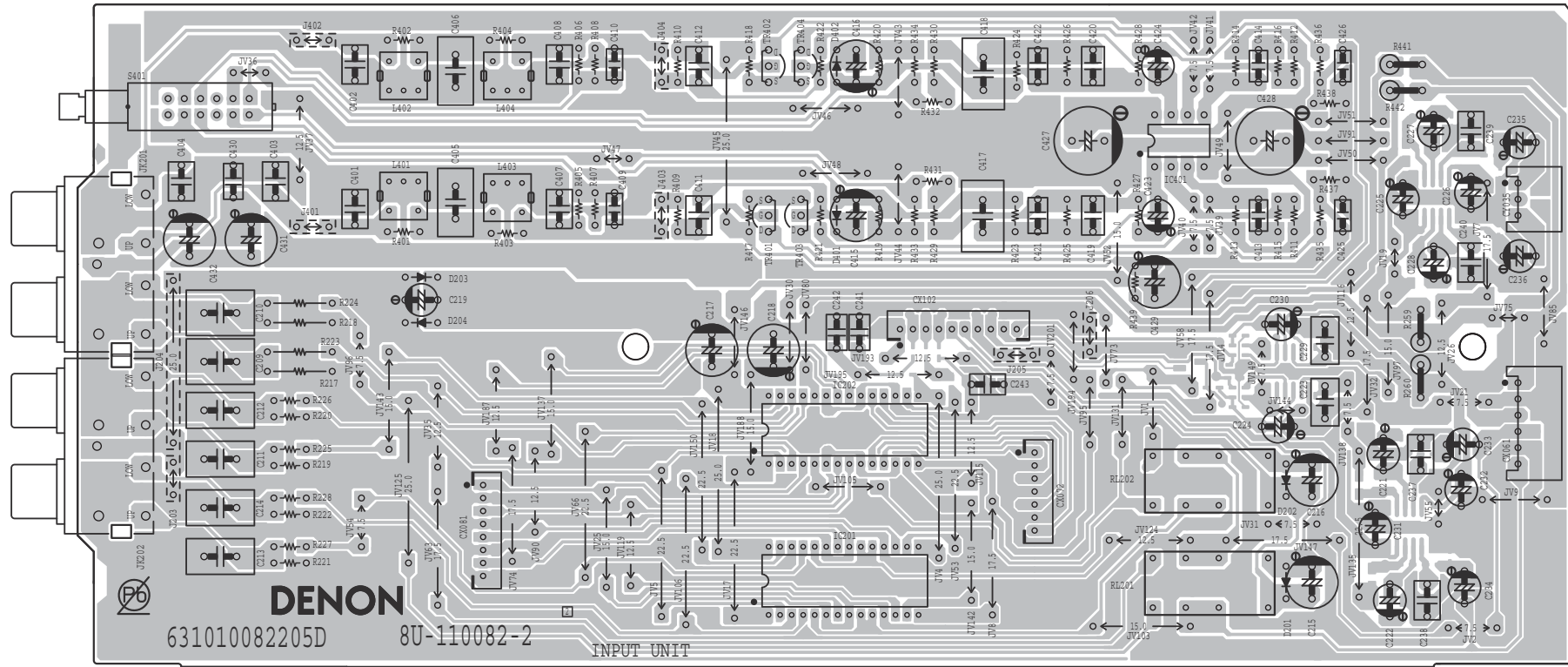


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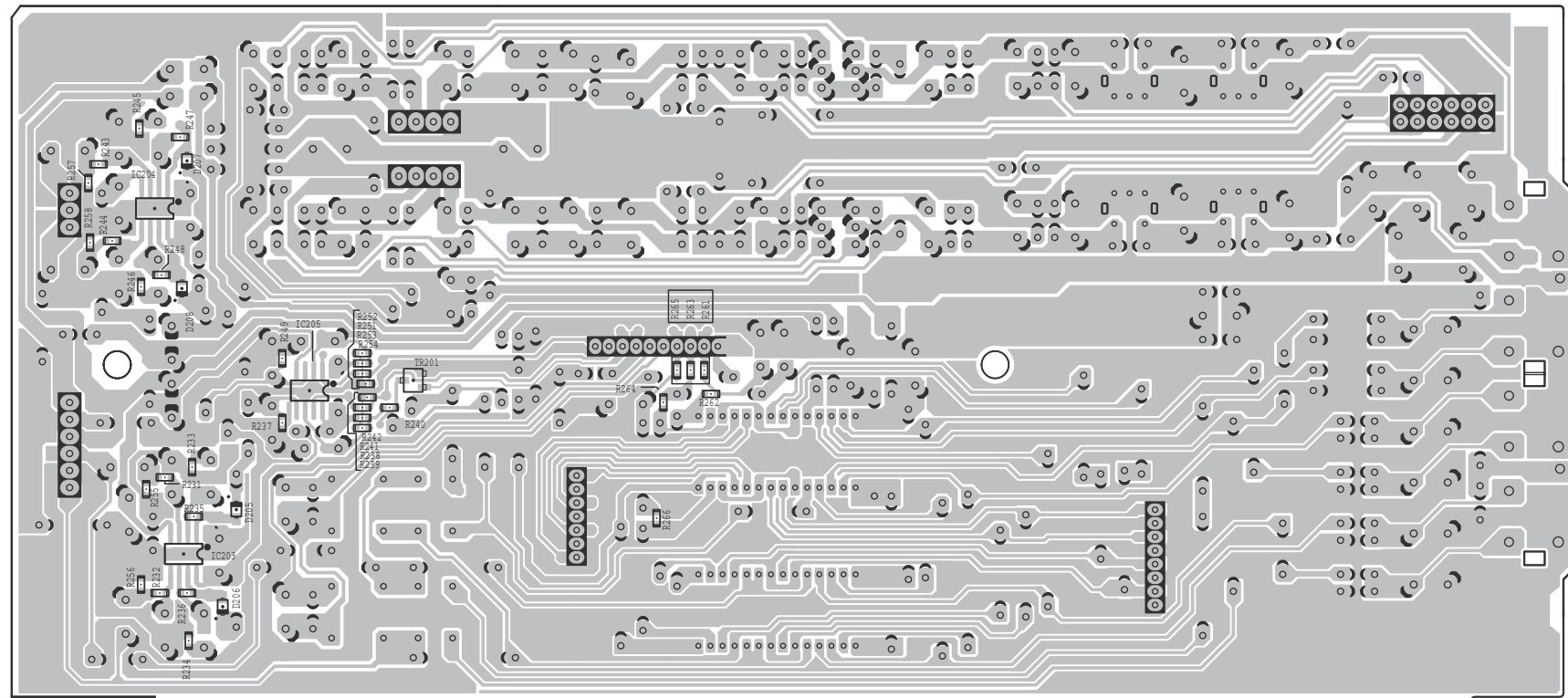
8U-210024-2 (COMPONENT SIDE)

1 2 3 4 5 6 7 8 9 10 11 12 13



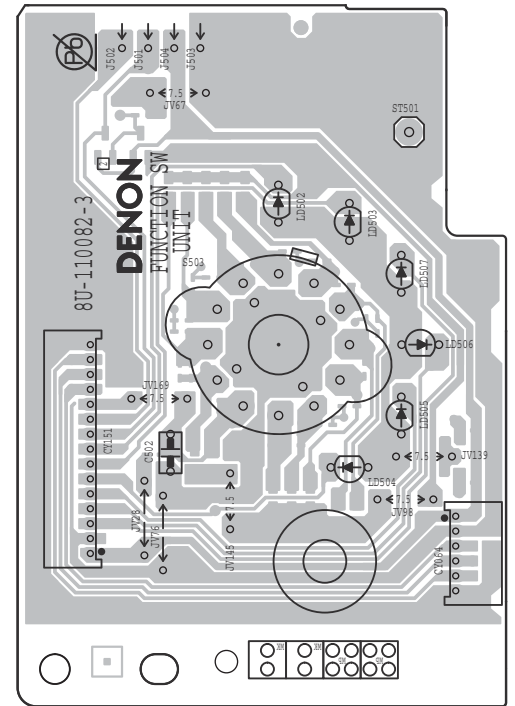
8U-210024-2 (FOIL SIDE)

13 12 11 10 9 8 7 6 5 4 3 2 1



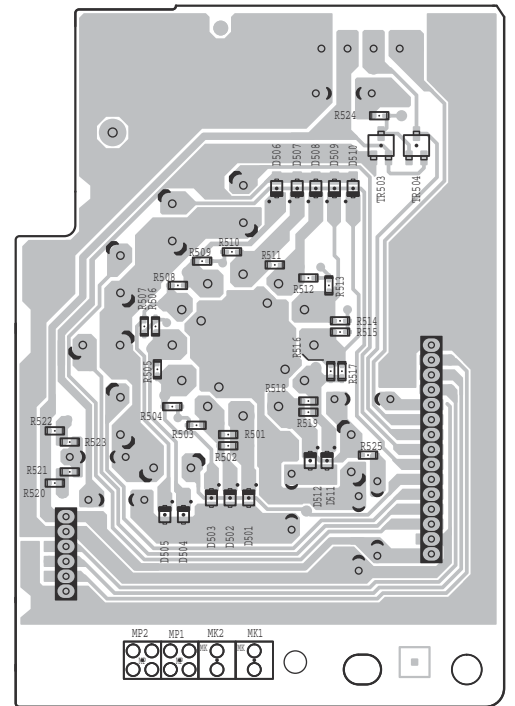
8U-210024-3 (COMPONENT SIDE)

1 2 3 4



8U-210024-3 (FOIL SIDE)

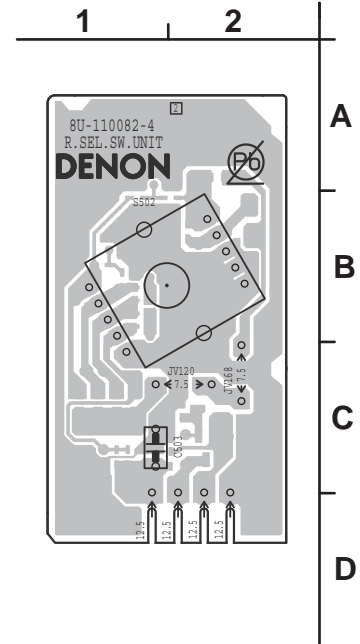
4 3 2 1



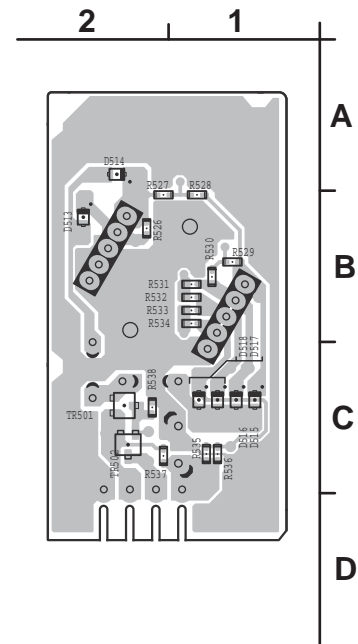
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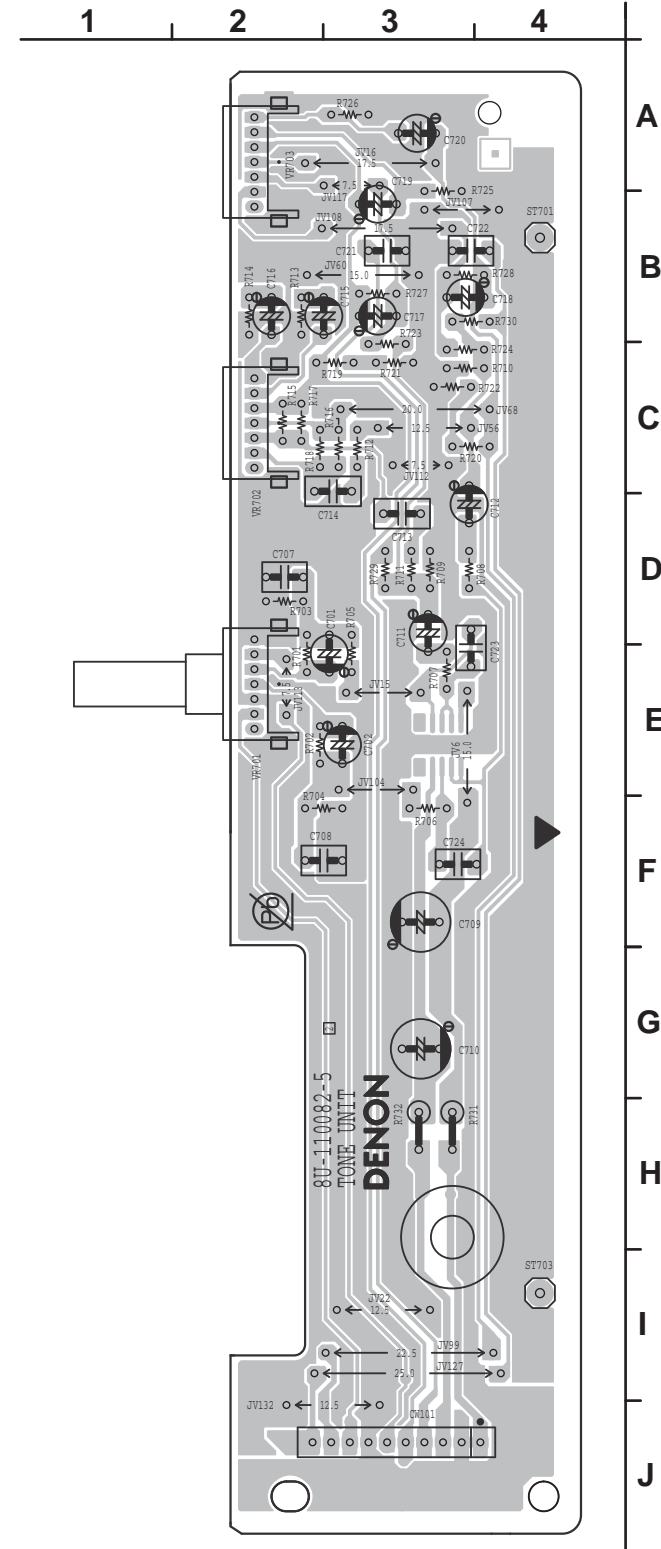
8U-210024-4 (COMPONENT SIDE)



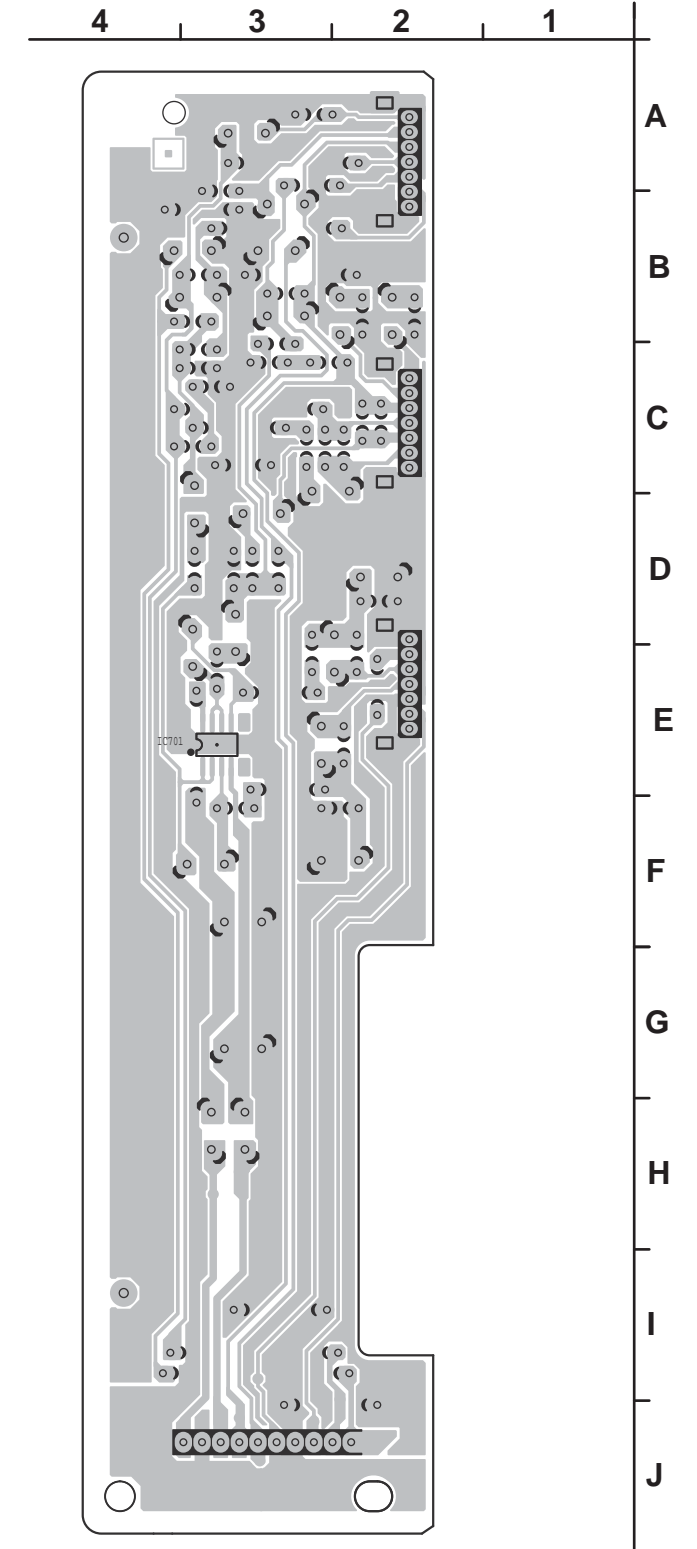
8U-210024-4 (FOIL SIDE)



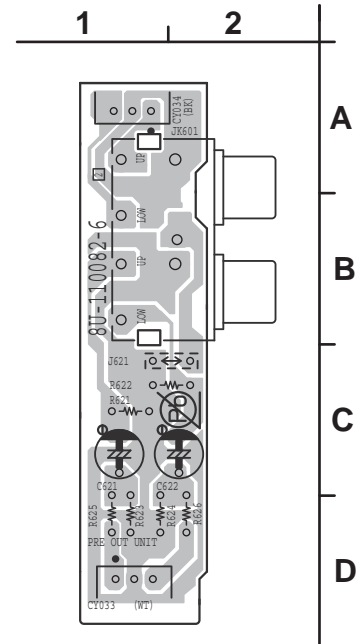
8U-210024-5 (COMPONENT SIDE)



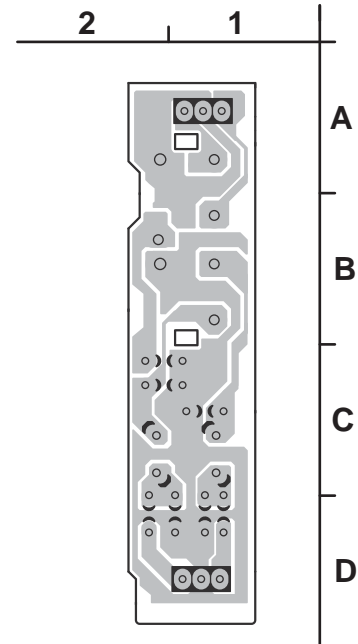
8U-210024-5 (FOIL SIDE)



8U-210024-6 (COMPONENT SIDE)



8U-210024-6 (FOIL SIDE)



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

1

2

3

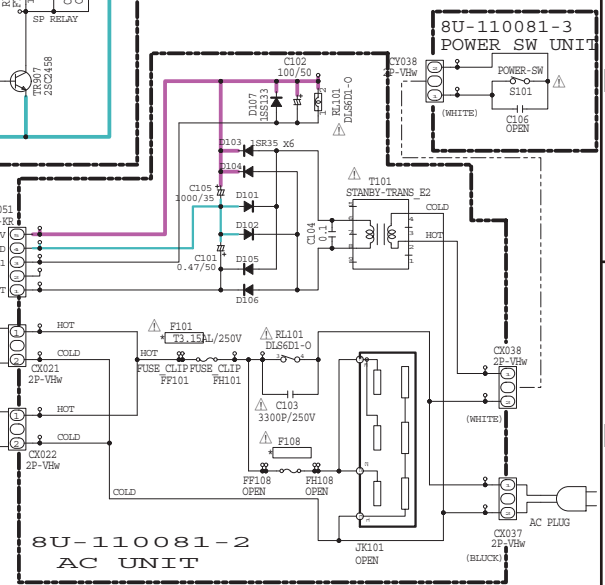
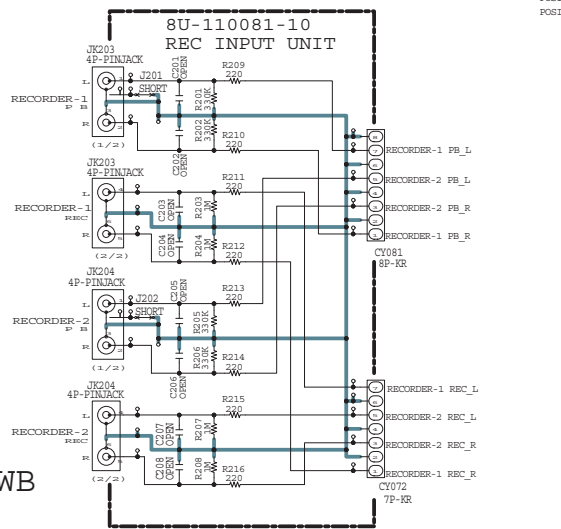
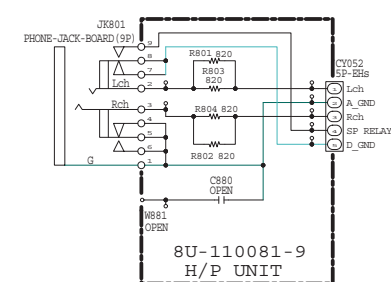
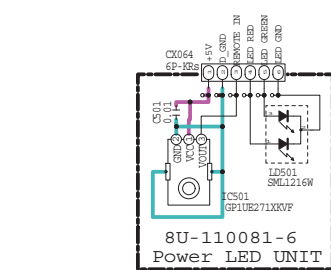
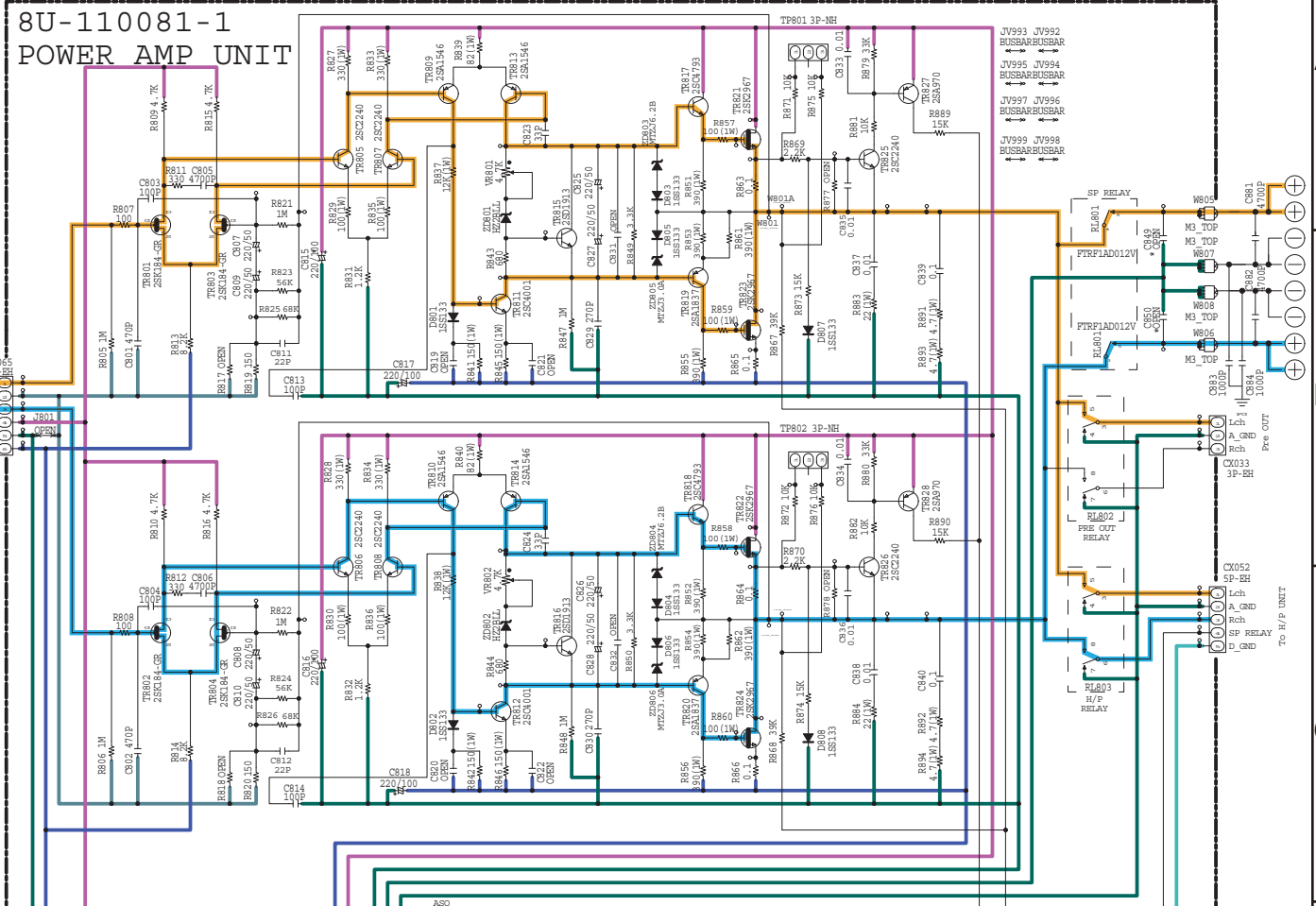
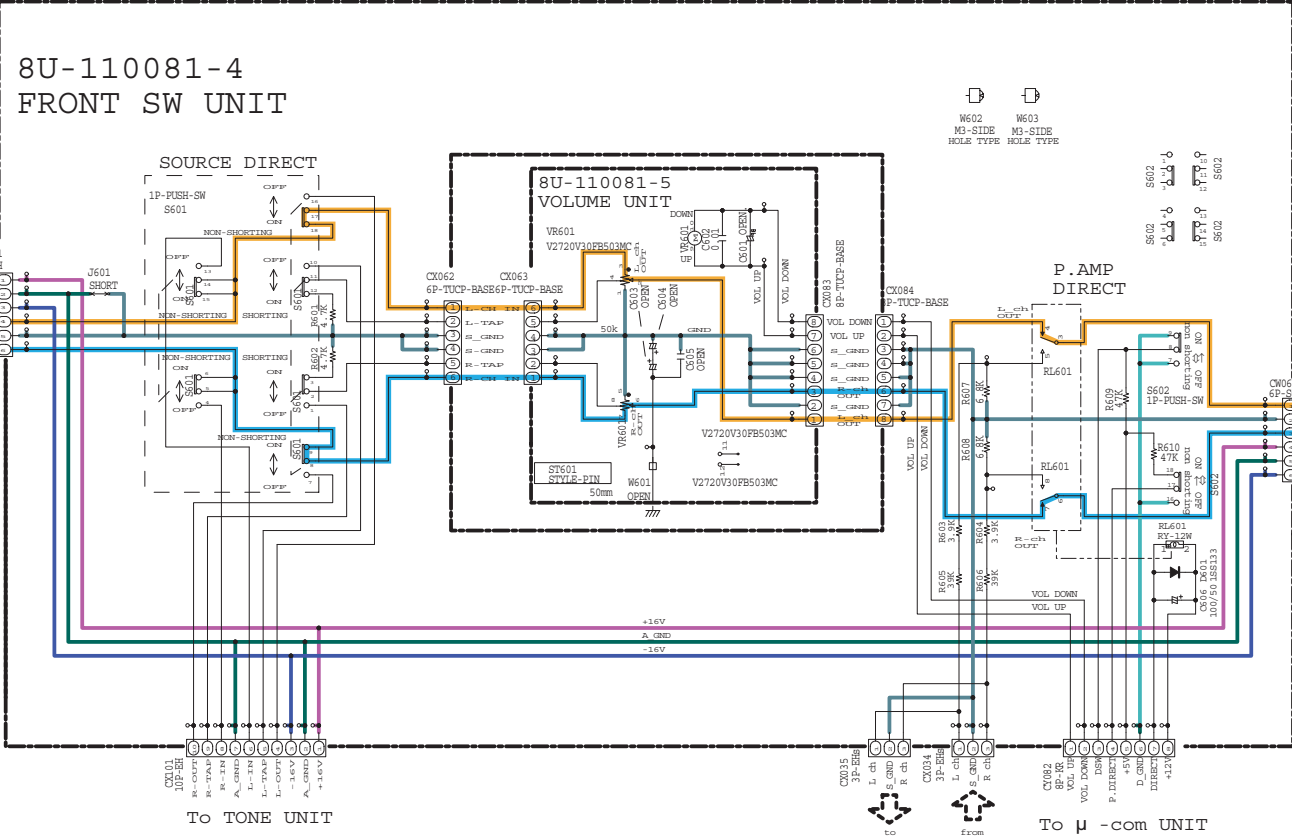
4

5




6

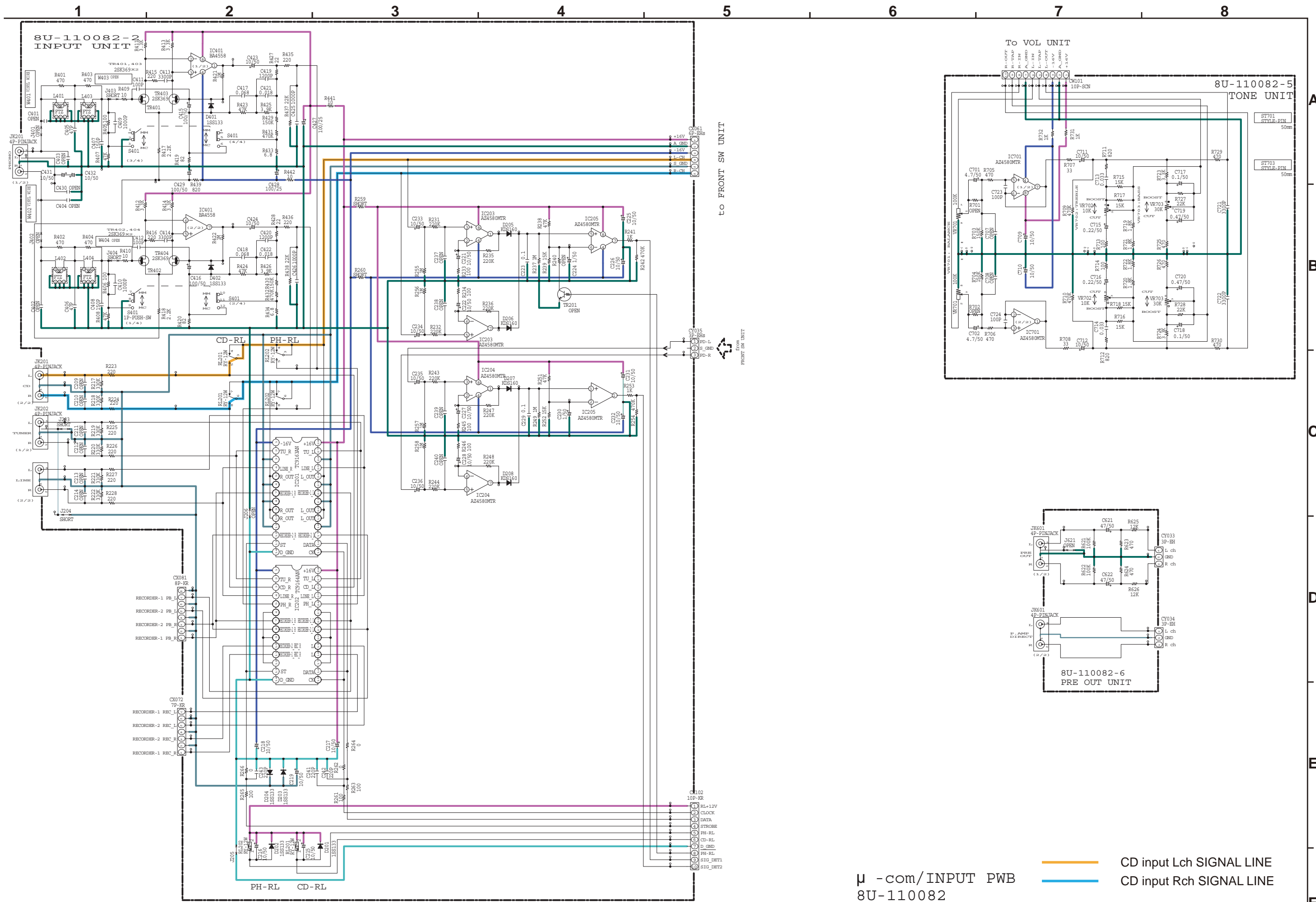
7

8

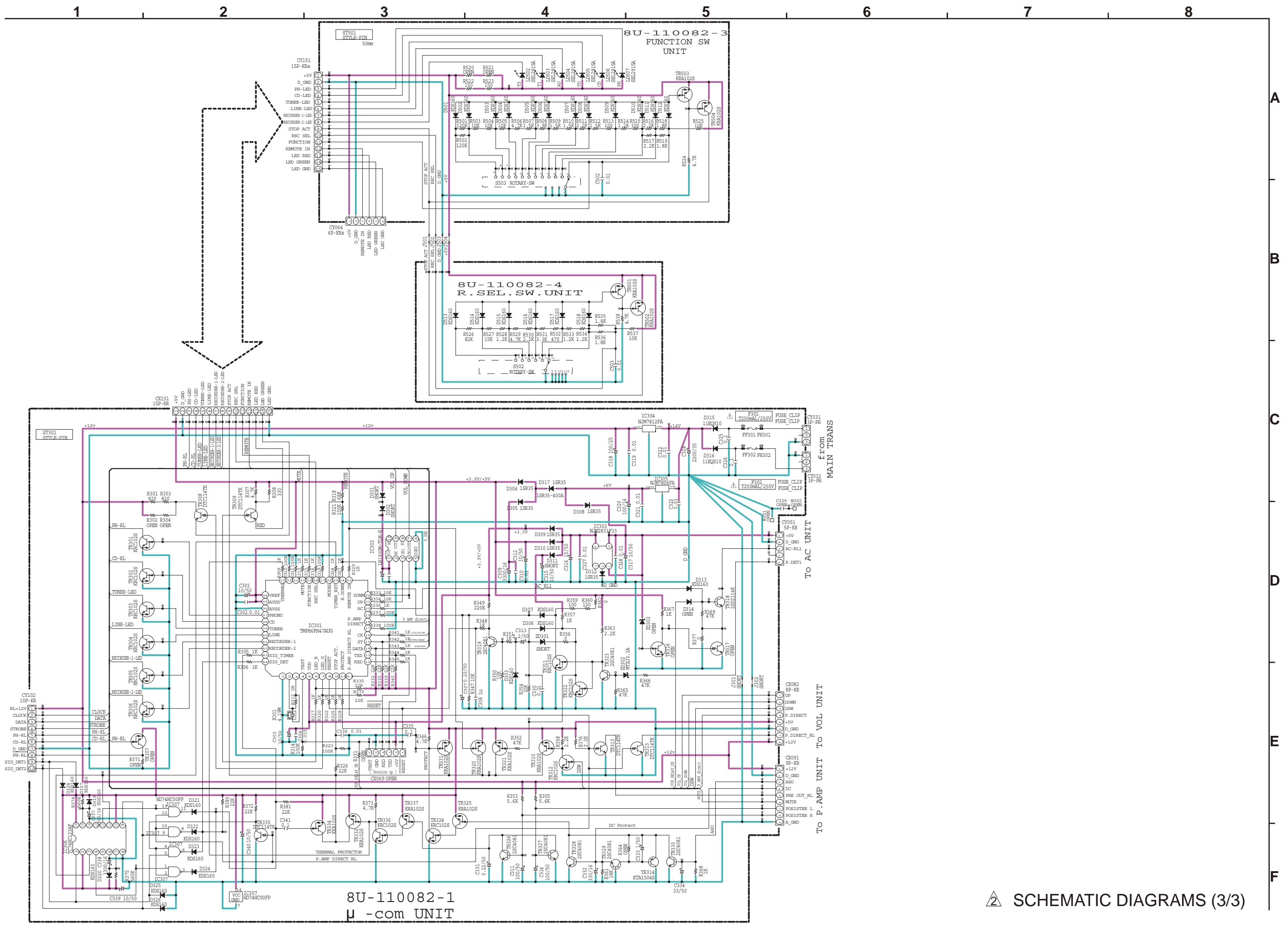


POWER AMP / POWER / FRONT SW PWB
8U-110081

 CD input Lch SIGNAL LINE
 CD input Rch SIGNAL LINE
 SCHEMATIC DIAGRAMS (1/3)

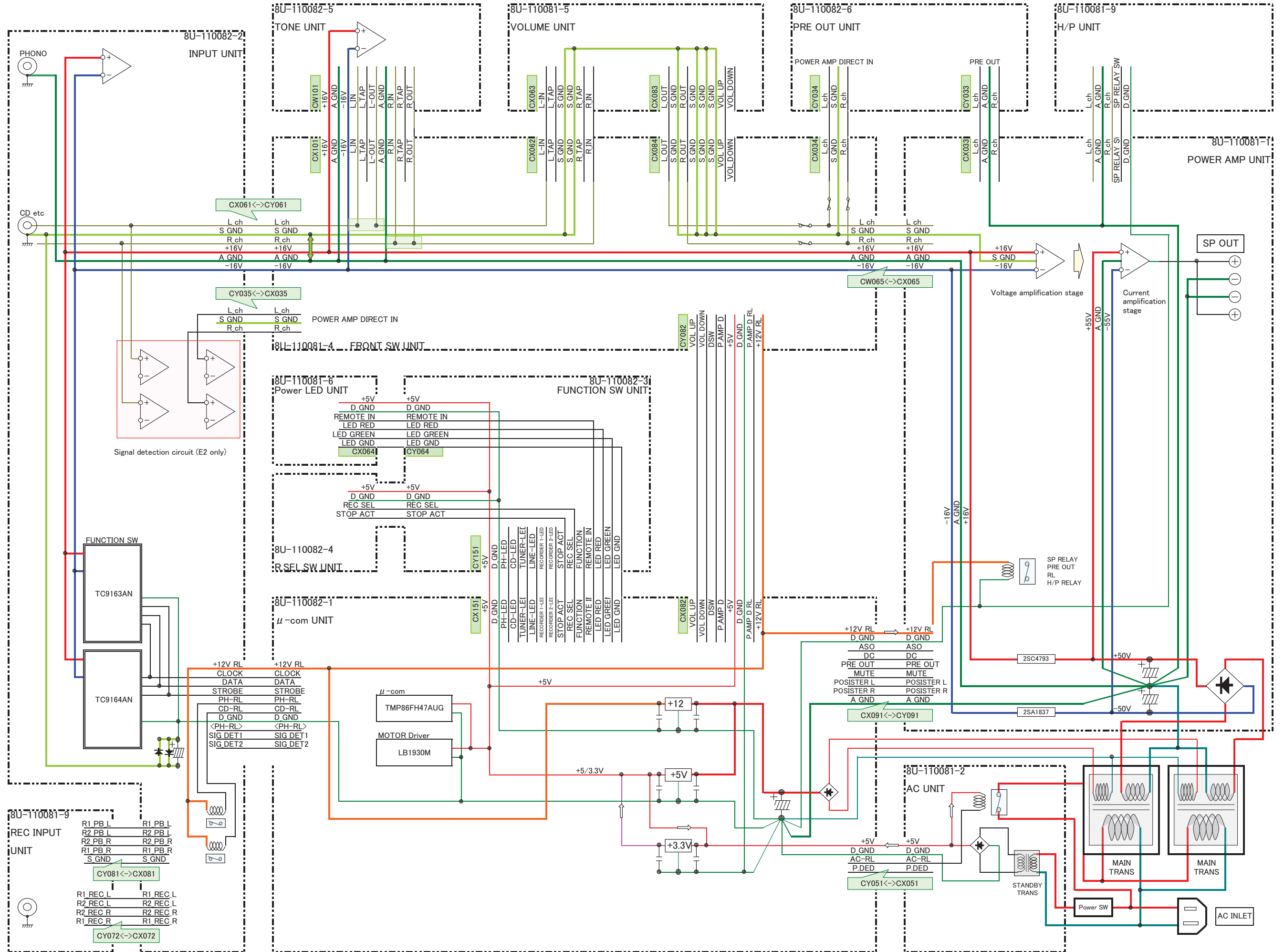


SCHEMATIC DIAGRAMS (2/3)

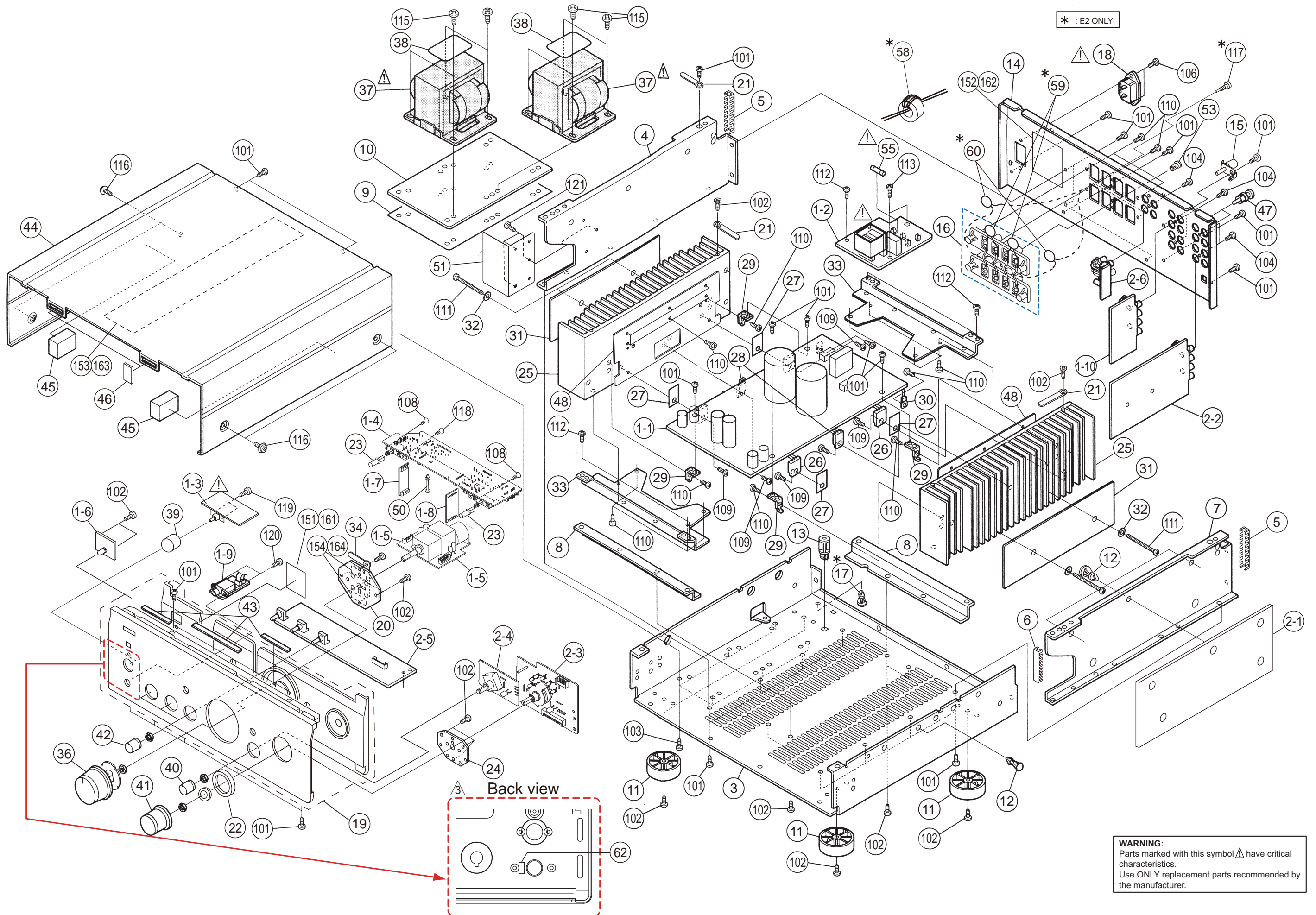


SCHEMATIC DIAGRAMS (3/3)

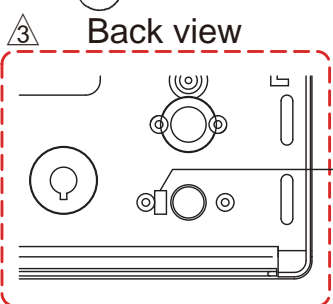
WIRING DIAGRAM



EXPLODED VIEW



* : E2 ONLY



WARNING:
 Parts marked with this symbol ⚠ have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

PARTS LIST OF EXPLODED VIEW

*Parts for which "nsp" is indicated on this table cannot be supplied.

*P.W.B. ASS'Y for which "nsp" is indicated on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts table and order replacement parts.

*The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.






*Part indicated with the mark "★" is not illustrated in the packing view.

Note: The symbols in the column "Remarks" indicate the following destinations.

SP : Premium Silver model

BK : Black model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	nsp	POWER AMP UNIT ASS'Y		1	*
1-1	-	POWER AMP UNIT			
1-2	-	AC UNIT			
1-3	-	POWER SW.UNIT			
1-4	-	FRONT SW UNIT			
1-5	-	VOLUME UNIT			
1-6	-	POWER LED UNIT			
1-7	-	VOL SUB UNIT 1			
1-8	-	VOL SUB UNIT 2			
1-9	-	H/P UNIT			
1-10	-	REC INPUT UNIT			
2	nsp	INPUT UNIT ASS'Y		1	*
2-1	-	U-COM UNIT			
2-2	-	INPUT UNIT			
2-3	-	FUNCTION SW UNIT			
2-4	-	R. SEL. SW. UNIT			
2-5	-	TONE UNIT			
2-6	-	INPUT UNIT			
3	nsp	MAIN CHASSIS		1	
4	nsp	CENTER BRACKET(L)		1	
5	nsp	EDGING GEE62FAC	40mm	1	
6	nsp	EDGING GEE62FAC	100mm	1	
7	nsp	CENTER BRACKET(R)		1	
8	nsp	SUPPORT BRACKET		2	
9	nsp	TRANS PLATE		1	
10	nsp	TRANS PLATE		1	
11	00D1462088122	FOOT ASS'Y		4	
12	nsp	P.W.B.HOLDER (H=10)		6	
13	nsp	P.W.B.HOLDER		1	
14	nsp	BACK PANEL		1	
15	00D2051116006	TERMINAL ASS		1	
16	646010032004D	8P TERMINAL ASSY		1	
17	nsp	P.W.B.HOLDER (H=12)		1	
	00D2033996008	AC INLET (2P)		1	
19	8S4021013200D	FRONT PANEL ASSY	SP	1	
19	8S4021013100D	FRONT PANEL ASSY	BK	1	
20	nsp	PLATE (M)		1	
21	nsp	CORD HOLDER (L76)		3	
22	nsp	LENS	SP	1	
22	nsp	LENS	BK	1	
23	412510054008D	PUSH KNOB	SP	2	
23	412510054015D	PUSH KNOB	BK	2	
24	nsp	PLATE(F)		1	
25	nsp	POWER RADIATOR		2	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
26	00D2750105004	2SK2967	TR821, TR822, TR824, TR824	4	
27	nsp	INSULATING SHEET		4	
28	00D2740136012	2SD1913 (R/S)	TR815, TR816	2	
29	nsp	*P.W.B BRACKET(A)		4	
30	00D2790034041	PTH9M04BD222TS2F333	PH901, PH902	2	
★ 30-1	nsp	P.V.C. TUBE(L=10)			
31	nsp	PLATE(RD)		2	
32	nsp	WASHER		4	
33	nsp	RADIATOR BRACKET		2	
34	nsp	CORD HOLDER (L50)		1	
36	8S4121005800D	KNOB (M) SUB ASSY	SP	1	
36	8S4121005801D	KNOB (M) SUB ASSY	BK	1	
	37	101010079005D	POWER TRANS E2 EI-85 	2	
	37	10101001700AD	POWER TRANS E2 EI-85 	2	*
38	nsp	TRANS LABEL(E)		2	
39	00D1139303130	POWER KNOB ASS'Y	SP	1	
39	00D1139303114	POWER KNOB ASS'Y	BK	1	
40	00D1120796141	KNOB(MARU) ASSY	SP	1	
40	00D1120796154	KNOB(MARU) ASSY	BK	1	
41	00D1120969004	KNOB(F) ASSY	SP	1	
41	00D1120969017	KNOB(F) ASSY	BK	1	
42	00D1120796125	KNOB(MARU) ASSY	SP	3	
42	00D1120796138	KNOB (MARU) ASSY	BK	3	
43	nsp	RUBBER SHEET		3	
44	8S4031004200D	TOP COVER BEND ASSY	SP	1	
44	8S4031004201D	TOP COVER BEND ASSY	BK	1	
45	nsp	SPACER		2	
46	nsp	RUBBER SHEET		2	
47	nsp	SHORT PIN		2	
48	nsp	CU PLATE		2	
49	nsp	WIRE CLAMPER		7	
50	nsp	HOLDER (A)		1	
51	nsp	SHIELD PLATE		1	
★ 52	nsp	UL TUBE (14.3)		1	
53	nsp	PUSH RIVET		8	
58	nsp	FERRITE CORE		1	
59	133050076551S	CQ93M2E472J(LP)	C881, C882	2	
60	133050075527S	CQ93M2E102J(LP)	C883, C884	2	
★ 61	nsp	LABEL (HOT SURFACE CAUTION)		1	
62	00D4611247067	RUBBER SHEET 		1	*
<p>NOTE : Please confirm the following on the occasion of exchange in a headphone jack (JK801). Rubber sheet sticks to the headphone jack installation position of the front panel. (Refer to No. 62 of the exploded view. (Page 26)) If there is not rubber sheet, please place an order for rubber sheet.</p>					
SCREWS					
101	nsp	3X8 CBTS (S)-B		33	
102	nsp	SCREW-B	3X8 CBTS (B)	30	
103	nsp	4X10 CBTS (S)-B		6	
104	nsp	FIXING SCREW	SP	7	
104	nsp	FIXING SCREW	BK	5	
106	nsp	3X8 CFTS (S)-B		2	
108	nsp	2.6X6 CFTS(P)-B		4	
109	nsp	3X16 CPTS(B) SW W		4	
110	nsp	B.H.TAPPED EJ330106	3X10 CBTS(B)-B	26	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
111	nsp	4X40 CBS		4	
112	nsp	3X8 CUP SCREW		5	
113	nsp	3X20 CBTS (P)-Z		2	
★ 114	nsp	3X6 CPS (SW.W) ZNP		4	
115	nsp	4X6 CBTS (S)-B		8	
116	nsp	4X8 CBTS(B)-N-3P	SP	4	
116	nsp	4X8 CBTS(B)-B-3P	BK	4	
117	nsp	EARTH SCREW		1	
118	nsp	SCREW	3X8 CFTS(B)	2	
119	nsp	SCREW	3X10 CFTS (P)-B	2	
120	nsp	3X8 CPTS(P)-Z		2	
121	nsp	3X6 CBTS(S)-B		3	

WIRES					
Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
★ 201	nsp	9P KR-KR RIBBON 300	CX091	1	
★ 202	nsp	10P KR-KR RIBBON	CX102	1	
★ 203	nsp	7P KR-KR RIBBON 125	CX072	1	
★ 204	nsp	8P KR-KR RIBBON 100	CX081	1	
★ 205	nsp	3P EH-EH CON.CORD	CX033	1	
★ 206	nsp	3P EH-EH CON.CORD	CX034	1	
★ 207	nsp	3P EH-EH CON. CORD	CX035	1	
★ 208	nsp	5P KR-KR RIBBON 500	CX051	1	
★ 209	nsp	3P VH CON.CORD	CX037	1	
★ 210	nsp	6P KR-KR RIBBON 400	CX064	1	
★ 211	nsp	3P VH-VH CON CORD	CX038	1	
★ 212	nsp	5P EH-EH CON.CORD	CX052	1	
★ 213	nsp	8P KR-KR RIBBON 250	CX082	1	
★ 214	nsp	6P EH-EH CON.CORD	CX061	1	
★ 215	nsp	15P KR-KR RIBBON	CX151	1	
★ 216	nsp	1P CONTACT ASS		2	

BUTYL TAPE, NITOFロン TAPE AND CHUKOH TAPE

- Purchase unit is 1 volume. Please use it, cutting into the specification length of "Remarks" of "PARTS LIST OF EXPLODED VIEW" and a lower table.

BUTYL TAPE : 10m of 1 volume

NITOFロン TAPE : 10m of 1 volume

- BUTYL TAPE and NITOFロン TAPE become pair usage. (There is an exception in part.) The place as which the number of BUTYL TAPE and NITOFロン TAPE is filled in with the exploded view should stick NITOFロン TAPE on the surface of stuck BUTYL TAPE.

<BUTYL TAPE>

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
151	00D1250097008	BUTYL TAPE(W50 T2)	FRONT PANEL ASSY: 50mm	1	
152	00D1250097011	BUTYL TAPE(W25 T2)	BACK PANEL : 40mm	1	
153	00D1250092003	BUTYL TAPE(W=50)	TOP COVER BEND ASSY : 310mm	1	
154	00D1250097011	BUTYL TAPE(W25 T2)	PLATE (M) : 10mm	2	
★ 155	00D1250097011	BUTYL TAPE(W25 T2)	TRANS PLATE : 180mm	1	
★ 156	00D1250097011	BUTYL TAPE(W25 T2)	MAIN CHASSIS : 200mm	1	
★ 157	00D1250092029	BUTYL TAPE (W=15)	VR601 : 70mm	2	
★ 158	00D1250097011	BUTYL TAPE(W25 T2)	P RADIATOR SUB ASSY : 60mm	2	
★ 159	00D1250092016	BUTYL TAPE (W=25)	PLATE(RD) : 270mm	2	
★ 160	00D1250092029	BUTYL TAPE (W=15)	POWER TRANS : 60m	4	

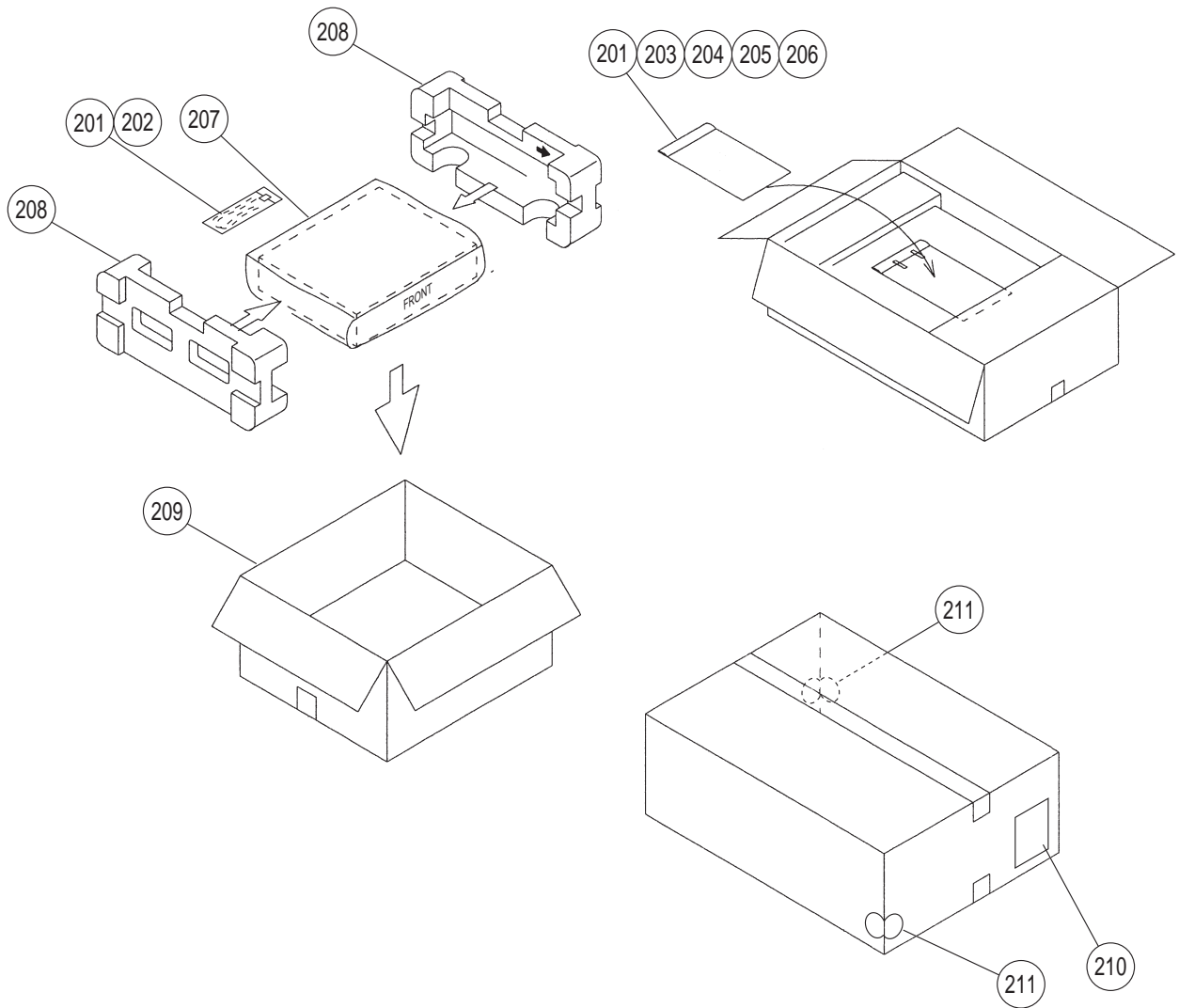
<NITOFロン TAPE>

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
161	00D1250096009	NITOFロン TAPE(W50)	FRONT PANEL ASSY: 50mm	1	
162	00D1250096012	NITOFロン TAPE(W25)	BACK PANEL : 40mm	1	
163	00D1250096009	NITOFロン TAPE(W50)	TOP COVER BEND ASSY : 310mm	1	
164	00D1250096012	NITOFロン TAPE(W25)	PLATE (M) : 10mm	2	
★ 165	00D1250096012	NITOFロン TAPE(W25)	TRANS PLATE : 180mm	1	
★ 166	00D1250096012	NITOFロン TAPE(W25)	MAIN CHASSIS : 200mm	1	
★ 167	00D1250096025	NITOFロン TAPE(W15)	VR601 : 70mm	2	
★ 168	00D1250096012	NITOFロン TAPE(W25)	P RADIATOR SUB ASSY : 60mm	2	
★ 169	00D1250096012	NITOFロン TAPE(W25)	PLATE(RD) : 270mm	2	
★ 170	00D1250096025	NITOFロン TAPE(W15)	POWER TRANS : 60m	4	

<CHUKOH TAPE>

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
★ 181	00D1250075033	CHUKOH TAPE(W19Xt0.08)	RL201 : 33mm	1	
★ 182	00D1250075033	CHUKOH TAPE(W19Xt0.08)	RL601 : 33mm	1	
★ 183	00D1250075020	CHUKOH TAPE(W13Xt0.13)	D901 : 200mm	1	

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

* Parts for which "nsp" is indicated on this table cannot be supplied.

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

SP : Premium Silver model

BK : Black model

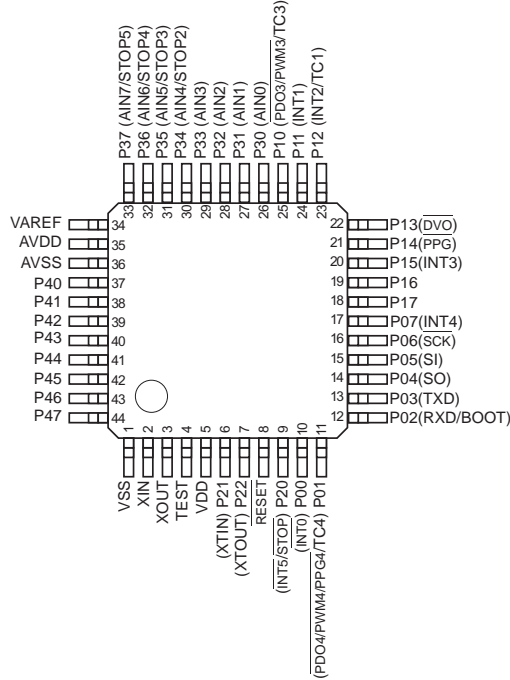
	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	201	nsp	ENVELOPE		2	
⚠	202	00D2062215006	AC CORD-E1/10A/INLET		1	
	203	541110408002D	INST. MANUAL (E2)		1	*
	204	nsp	S.S.LIST (EX)		1	
	205	nsp	BATTERY(R03X2)		1	
	206	307010067008D	RC-1143		1	*
	207	nsp	CABINET COVER		1	
	208	00D5031261402	CUSHION ASSY		1	
	209	531210130103D	CARTON CASE		1	*
	210	nsp	CONT. LABEL SUB ASS'Y		2	
	211	nsp	COLOR LABEL	SP	2	

SEMICONDUCTORS

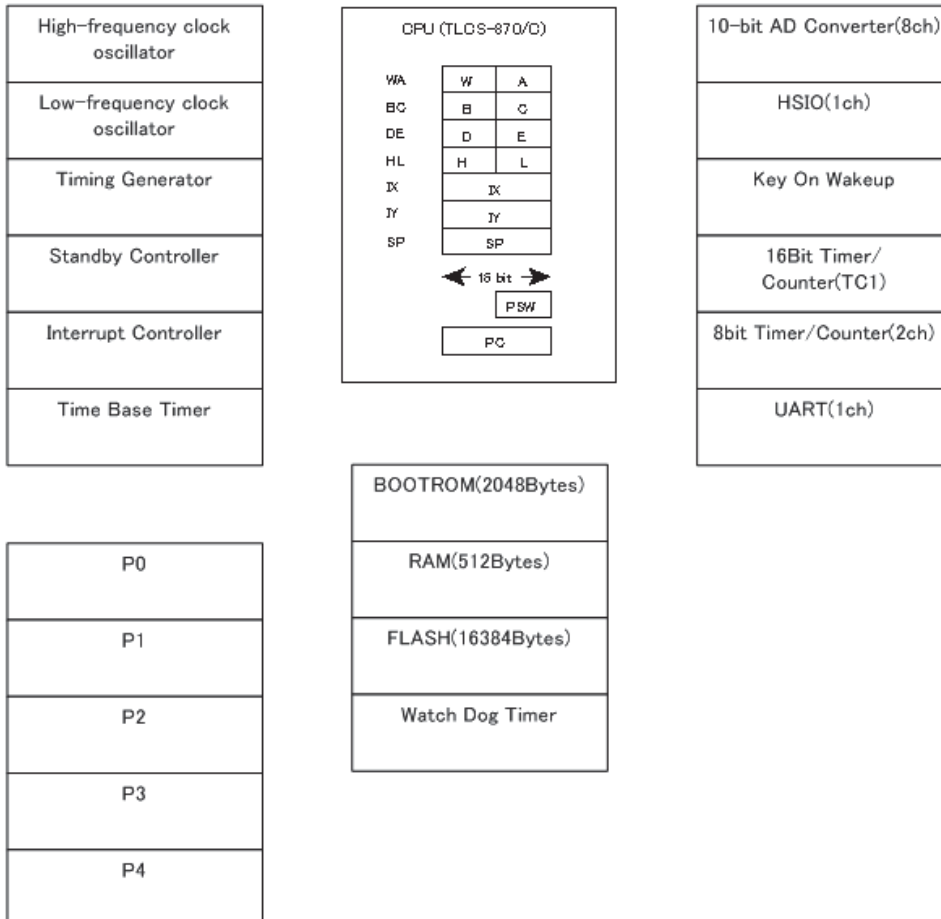
Only major semiconductors are shown, general semiconductors etc. are omitted to list.
 The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

1. IC's

TMP86FH47AUG (8U-110082 : IC301)



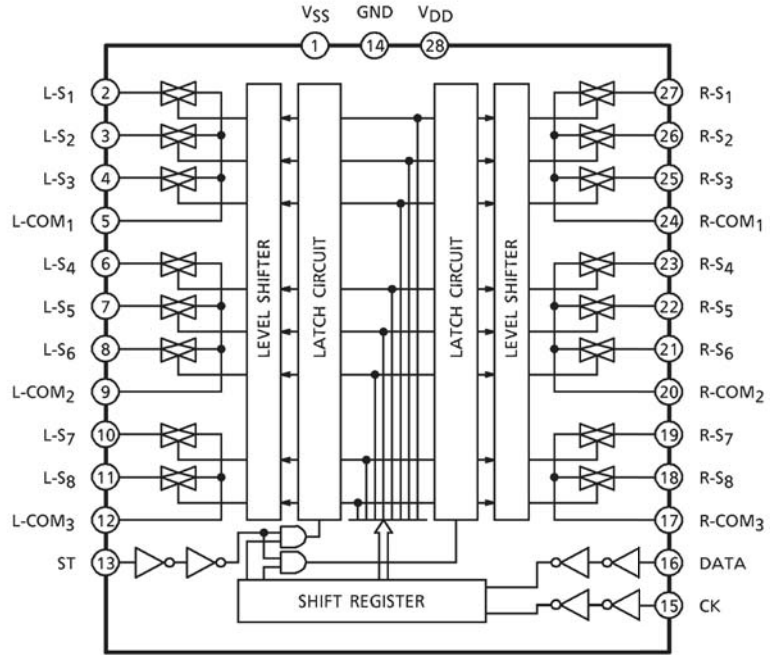
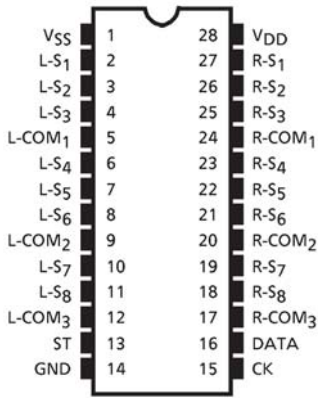
TMP86FH47AUG Block Diagram



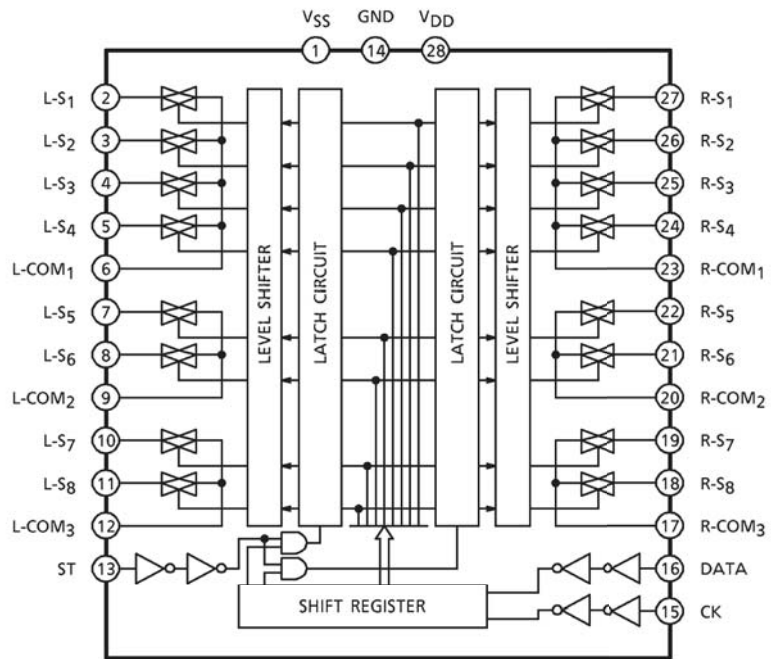
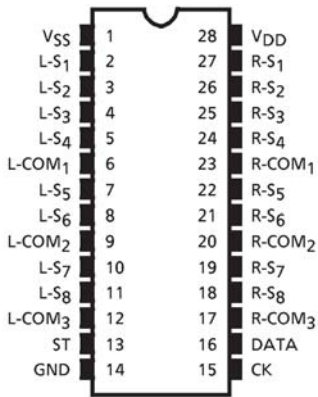
R5F64169DFD Terminal Functions

pin	port	I/O	function	active	normal
1	VSS		to GND		
2	XIN	I	x'tal		
3	XOUT	O	x'tal		
4	TEST		to VSS/VDD		
5	VDD		to 3.3v		
6	P21(XTIN)	O	LED R	H	L
7	P22(XTOUT)	O	LED G	H	L
8	REST	I	reset		
9	P20(STOP/INT5)	I	Stop mode cancellation	HIGH eddge	L
10	P00(INT0)	I	ASO/DC protector	LOW eddge	H
11	P01(TC4)	O	P direct output	H	L
12	P02(RXD)	I	RXD(prom)	L	H
13	P03(TXD)	O	TXD(prom)	L	H
14	P04(SO)	O	analog sw data	H	L
15	P05(SI)	O	analog sw strobe	H	L
16	P06(SCK)	O	analog sw clock	H	L
17	P07(INT4)	O	source direct output	H	L
18	P17	I	P direct input	L	L
19	P16	I	source direct input	L	L
20	P15(INT3)	O	ac power relay	H	L
21	P14(PPG)	O	volume up	H	L
22	P13(DVO)	O	volume down	H	L
23	P12(INT2)	I	remocon input	L	H
24	P11(INT1)	I	Power off (power failure)	H	L
25	P10(TC3)	O	timer reset	L	H
26	P30(AIN0)	I	Model switch	AD	AD
27	P31(AIN1)	I	sp output A/B	AD	AD
28	P32(AIN2)	I	rec out selector	AD	AD
29	P33(AIN3)	I	function A	eddge/AD	
30	P34(AIN4/STOP2)	O	head phone/muting	H	L
31	P35(AIN5/STOP3)	O	sp output A	H	L
32	P36(AIN6/STOP4)	O	sp output B	H	L
33	P37(AIN7/STOP5)	I	THERMAL protector	LOW eddge	H
34	VAREF		to VDD		
35	AVDD		to VDD		
36	AVSS		to VSS		
37	P40	O	phono LED/relay drive	H	L
38	P41	O	cd LED/relay drive	H	L
39	P42	O	tuner LED	H	L
40	P43	O	Line LED	H	L
41	P44	O	Recorder1 LED	H	L
42	P45	O	Recorder2 LED	H	L
43	P46	I	SIG. Timer	L	H
44	P47	I	SIG. Det	L	H

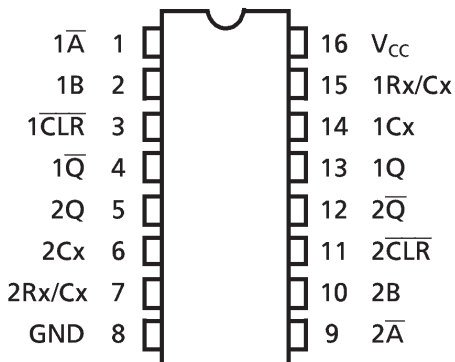
TC9163AN (8U-110082 : IC201)



TC9164AN (8U-110082 : IC202)



TC74HC123AF (8U-110082 : IC306)



PARTS LIST OF P.W.B. UNIT

*Parts for which "nsp" is indicated on this table cannot be supplied.

*The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

SP : Premium Silver model

BK : Black model

POWER AMP P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
	IC501	00D2623602003	GP1UE271XKVF		
	TR801-804	00D2750116006	2SK184-GR(DVGS,F)		
	TR805-808	00D2730187916	2SC2240(BL)TPE2		
	TR809,810	00D2710304007	2SA1546(M/L) TRANSISTOR		
	TR811,812	00D2730489009	2SC4001(M/L)-AZ		
	TR813,814	00D2710304007	2SA1546(M/L) TRANSISTOR		
	TR817,818	00D2730442004	2SC4793 (Y)		
	TR819,820	00D2710272003	2SA1837-Y		
	TR825,826	00D2730187916	2SC2240(BL)TPE2		
	TR827,828	00D2710094919	2SA970(BL)TPE2		
	TR901	00D2730442004	2SC4793 (Y)		
	TR902	00D2710272003	2SA1837-Y		
	TR903,904	222050003408S	2SK246-Y(TPE2)		
	TR905-907	00D2730317906	2SC2458(BL)TPE4		
	D101-106	00D2760704903	1SR35-400A(T93X)		
	D107	00D2760401905	1SS133T77 (TAPE)		
	D601	00D2760401905	1SS133T77 (TAPE)		
	D801-808	00D2760401905	1SS133T77 (TAPE)		
	D901	00D2760401905	1SS133T77 (TAPE)		
	D904-908	00D2760401905	1SS133T77 (TAPE)		
	D910	00MHE20030290	D30XBN20 SBD BRIDGE		
	ZD801,802	00D2760649903	HZ2BLLTE(TAPE)		
	ZD803,804	00D2760760963	MTZJ6.2B T77		
	ZD805,806	00D2760643938	MTZJ3.0A T77		
	ZD901-904	00D2760761975	MTZJ18B T77		
	LD501	00D3939645009	SML1216W(D)		
RESISTORS GROUP					
	R601,602	Znsp	RD14B2E472JT(AMRS)		
	R603,604	nsp	RD14B2E392JT(AMRS)		
	R605,606	nsp	RD14B2E393JT(AMRS)		
	R607,608	nsp	RD14B2E682JT(AMRS)		
	R801-804	nsp	RS14B3A821JNBST(S)		
	R805,806	nsp	RD14B2E105JT(AMRS)		
	R807,808	nsp	RD14B2E101JT(AMRS)		
	R809,810	nsp	RD14B2E472JT(AMRS)		
	R811,812	nsp	RD14B2E331JT(AMRS)		
	R813,814	nsp	RD14B2E822JT(AMRS)		
	R815,816	nsp	RD14B2E472JT(AMRS)		

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	R819,820	nsp	RD14B2E151JT(AMRS)			
	R821,822	nsp	RD14B2E105JT(AMRS)			
	R823,824	nsp	RD14B2E563JT(AMRS)			
	R825,826	nsp	RD14B2E683JT(AMRS)			
	R827,828	nsp	RS14B3A331JNBST AMRA			
	R829,830	nsp	RS14B3A101JNBST AMRA			
	R831,832	nsp	RD14B2E122JT(AMRS)			
	R833,834	nsp	RS14B3A331JNBST AMRA			
	R835,836	nsp	RS14B3A101JNBST AMRA			
	R837,838	nsp	RS14B3A123JNBST AMRA			
	R839,840	00D2442694917	RS14B3A820JNBST AMRA			
	R841,842	nsp	RS14B3A151JNBST AMRA			
	R843,844	nsp	RD14B2E681JT(AMRS)			
	R845,846	nsp	RS14B3A151JNBST AMRA			
	R847,848	nsp	RD14B2E105JT(AMRS)			
	R849,850	nsp	RD14B2E332JT(AMRS)			
	R851-856	nsp	RS14B3A391JNBST AMRA			
	R857-860	nsp	RS14B3A101JNBST AMRA			
	R861,862	nsp	RS14B3A391JNBST AMRA			
	R863-866	00D2432082005	RW99=3F0R1K			
	R867,868	nsp	RD14B2E393JT(AMRS)			
	R869,870	nsp	RD14B2E222JT(AMRS)			
	R873,874	nsp	RD14B2E153JT(AMRS)			
	R883,884	00D2442693947	RS14B3A220JNBST AMRA			
	R891-894	00D2442692977	RS14B3A4R7JNBST AMRA			
	R901,902	nsp	RD14B2E102JT(AMRS)			
	VR601	675010007006D	V2720V30FB503MC			
	VR801,802	00D2116160955	K06PB472			
CAPACITORS GROUP						
	C101	nsp	CE04W1HR47MT(RA3)			
	C102	00D2544703706	CE04W1H101MC(RFS#A)			
	⚠ C103	00D2538029726	CK45F2EAC332MC(KX)			
	C104	nsp	CQ93M2A104JT(PEF)			
	C105	nsp	CE04W1V102MC(RA3)			
	C501	nsp	CQ93M2A103JT(PEF)			
	C602	nsp	CQ93M2A103JT(PEF)			
	C606	nsp	CE04W1H101MT(RA3)			
	C801,802	nsp	CQ93M2E471J(LP)			
	C803,804	nsp	CQ93P2A101JT(NH2)			
	C805,806	nsp	CQ93M2E472J(LP)			
	C807-810	00D2544703719	CE04W1H221MC(RFS#A)			
	C811,812	nsp	CQ93P2D220K(FAS)			*
	C813,814	nsp	CQ93P2A101JT(NH2)			
	C815-818	00D2544705746	CE04W2A221MC(RFS#A)			
	C823,824	nsp	CQ93P2D330K(FAS)			*
	C825-828	00D2544703719	CE04W1H221MC(RFS#A)			
	C829,830	nsp	CQ93M2E271J(LP)			
	C833-836	nsp	CQ93M2E103J(LP)			
	C837,838	nsp	CQ93M2E103J(LP)			

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C839,840	nsp	0.1UF 100V +- 5% FNS100VDC-104J-FL			
C905,906	00D2544703735	CE04W1H471MC(RFS#A)			
C907,908	00D2544703777	CE04W1H470MC(RFS#A)			
C909,910	00D2546255003	CE68W==822MC(DL)			
C917,918	nsp	CQ93M2A224JT(PEF)			
OTHERS PARTS GROUP					
AS901,902	nsp	RADIATOR			
AS910	nsp	HEAT SINK(PUG56)			
CW065	nsp	6P EH-SCN CORD			
CX021,022	nsp	2P VH CON BASE (Red)			
CX023,024	nsp	2P VH CON BASE (Blue)			
CX033	nsp	3P EH CONNECTOR BASE			
CX034	nsp	3P EH SIDE BASE(BK)			
CX035	nsp	3P EH SID CONN BASE			
CX037	nsp	2P VH CONNECTOR BASE			
CX038	nsp	2P VH CON BASE (White)			
CX051	nsp	5P CONN.BASE(KR-PH)			
CX052	nsp	5P EH CONNECTOR BASE			
CX062,063	nsp	6P CON.BASE(TUC-P)			
CX064	nsp	6P KR CON BASE(L)			
CX065	nsp	6P EH CONNECTOR BASE			
CX083,084	nsp	8P CON BASE(TUC-P)			
CX101	nsp	10P EH CON. BASE			
CY038	nsp	2P VH CON BASE (White)			
CY052	nsp	5P EH SID CONN BASE			
CY061	nsp	6P EH CONNECTOR BASE			
CY062,063	nsp	6P CON.SOCKET(TUC-P			
CY072	nsp	7P CONNE BASE(RED)			
CY081	nsp	8P CONNE.BASE (RED)			
CY082	nsp	8P CONN.BASE(KR-PH)			
CY083,084	nsp	8P CON.SOCKET(TUC-P)			
CY091	nsp	9P CONN.BASE(KR-PH)			
△ F101	00D2061015074	FUSE 3.15A			
△ F901,902	00D2061092026	FUSE 25RF 1.0A F002			
FF101	nsp	FUSE CLIP(TAPE)			
FH101	nsp	FUSE CLIP(TAPE)			
JK203,204	643010048000S	4P PIN JACK(MSP-244V4)-AU			
JK801	643010073204S	PHONE JACK BOARD(9P)			*
	<p>NOTE : Please confirm the following on the occasion of exchange in a headphone jack (JK801). Rubber sheet sticks to the headphone jack installation position of the front panel. (Refer to No. 62 of the exploded view. (Page 26)) If there is not rubber sheet, please place an order for rubber sheet. (Refer to No. 62 of the parts list of exploded view. (Page 27))</p>				
JV992-999	nsp	COMMON PLATE(30-3)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
⚠	RL101	00D2140241002	RELAY DL1SU TV-8			
	RL601	00D2140127003	RELAY(RY-12W)			
	RL801	00D2140195006	RELAY FTR-F1			
	RL802,803	00D2140127003	RELAY(RY-12W)			
⚠	S101	665010008002D	POWER SWITCH (TV-5)			
	S601,602	665010010005D	1P PUSH SWITCH(6-2)			
	ST601	nsp	STYLE PIN			
⚠	T101	00D2336545004	STANDBY TRANS E2			
	TP801,802	nsp	3P NH CONNECTOR BASE			
	W602,603	nsp	M3 SCREW TERMINAL			
	W805-808	nsp	M3 SCREW TERMINAL			
		nsp	3X8 CBS-B			
		nsp	SCREW			
		nsp	1P SIN CON CORD			

INPUT P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC201	00D2622487009	TC9163AN			
	IC202	00D2622488008	TC9164AN			
	IC203-205	00D2631289900	AZ4580MTR-E1			
	IC301	241010029625D	TMP86FH47AUG-7G20(JZ			*
	IC302	235810039506D	LB1930M-TLM-E			
	IC303	00D2631242905	NJM2831F33			
	IC304	00D2630801004	NJM7812FA(S)			
	IC305	00D2630793002	NJM7806FA(S)			
	IC306	00D2621348903	TC74HC123AF(TP1) +C			
	IC307	00D2621639900	HD74HC00FP-TR(TAPE) +C			
	IC401	00D2630322004	BA4558			
	IC701	00D2631289900	AZ4580MTR-E1			
	TR301-306	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR308,309	00D2690088906	DTC114TKT96 +C			
	TR310	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR311,312	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR313	00D2690088906	DTC114TKT96 +C			
	TR314	00D2710312905	KTA1504S-GR-RTK/P			
	TR315	00D2690088906	DTC114TKT96 +C			
	TR318	00D2740195901	2SD2114KT196 +C			
	TR319	00MHX300012AY	2SC4081 (Q R) 2SC4116 (Y GR)			
	TR320,321	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR322	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR323	00MHX300012AY	2SC4081 (Q R) 2SC4116 (Y GR)			
	TR324	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR325	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR326-330	00MHX300012AY	2SC4081 (Q R) 2SC4116 (Y GR)			
	TR331,332	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR334	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR335	00D2690088906	DTC114TKT96 +C			
	TR336	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR337	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR401-404	00D2750038045	2SK369 (BL)/(GR)-C			
	TR501-504	00D2690184907	KRA102S-RTK/P (10K-10K)			
	D201-204	00D2760401905	1SS133T77 (TAPE)			
	D205-208	00D2760794900	KDS160-RTK/P			
	D303	00D2760794900	KDS160-RTK/P			
	D304,305	00D2760704903	1SR35-400A(T93X)			
	D306,307	00D2760794900	KDS160-RTK/P			
	D308-310	00D2760704903	1SR35-400A(T93X)			
	D311	nsp	JUMPER (L=5)			
	D312	00D2760704903	1SR35-400A(T93X)			
	D313	00D2760794900	KDS160-RTK/P			
△	D315,316	00MHD20055101	ISHOTTKY 11EQS10 1A 100V			
	D317	00D2760704903	1SR35-400A(T93X)			
	D319-328	00D2760794900	KDS160-RTK/P			
	D401,402	00D2760401905	1SS133T77 (TAPE)			
	D501-518	00D2760794900	KDS160-RTK/P			

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
ZD302	00D2760634905	MTZJ3.3AT77			
LD502-507	00D3939658915	SEL2915A-TP6			
RESISTORS GROUP					
R217,218	nsp	RD14B2E334JT(AMRS)			
R223,224	nsp	RD14B2E221JT(AMRS)			
R441,442	00D2412375907	RD14B2E100JNBST			
R731,732	00D2442051974	RS14B3A102JNBST(S)			
VR701	00D2110798103	V14V20FW104K			
VR702	00D2110834012	V14V20FA103K			
VR703	00D2110834009	V14V20FA303K			
CAPACITORS GROUP					
C215,216	00D2544702956	CE04W1H100MT(RFS#A)			
C217-219	nsp	CE04W1H100MT(RA3)			
C221,222	nsp	CE04W1H100MT(RA3)			
C223	nsp	CQ93M2A104JT(PEF)			△
C224	nsp	CE04W1H010MT(RA3)			
C225-228	nsp	CE04W1H100MT(RA3)			
C229	nsp	CQ93M2A104JT(PEF)			△
C230	nsp	CE04W1H010MT(RA3)			
C231-236	nsp	CE04W1H100MT(RA3)			
C241-243	nsp	CQ93M2A221JT(PEF)			△
C301	nsp	CE04W1H100MT(RA3)			
C302	nsp	CQ93M2A103JT(PEF)			△
C303	nsp	CE04W1H100MT(RA3)			
C304	nsp	CQ93P2A153JT(NH2)			
C305	nsp	CE04W1H100MT(RA3)			
C306	nsp	CQ93M2A103JT(PEF)			△
C307	nsp	CE04W1HR22MT(RA3)			
C308	nsp	CF93A1H105JT(JL)			△
C309	nsp	CE04W1C332MC(RA3)			
C310	nsp	CQ93M2A103JT(PEF)			△
C311	nsp	CE04W1H101MT(RA3)			
C312	nsp	CE04W1H100MT(RA3)			
C313	nsp	CE04W1H2R2MT(RA3)			
C314	nsp	CE04W1H101MT(RA3)			
C315-317	nsp	CE04W1H100MT(RA3)			
C318	nsp	CE04W1H101MT(RA3)			
C319	nsp	CQ93M2A103JT(PEF)			△
C320	nsp	CE04W1C101MT(RA3)			
C321-323	nsp	CQ93M2A103JT(PEF)			△
C324	nsp	CE04W1V222MC(RA3)			
C325,326	nsp	CQ93M2A104JT(PEF)			△
C327,328	nsp	CQ93M2A103JT(PEF)			△
C330	nsp	CQ93M2A103JT(PEF)			△
C331	nsp	CE04W1HR22MT(RA3)			

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C332	nsp	CE04W1C331MT(RA3)			
C333	nsp	CE04W1H010MT(RA3)			
C334	nsp	CE04W1H330MT(RA3)			
C335	nsp	CQ93M2A104JT(PEF)			△
C336	nsp	CQ93M2A103JT(PEF)			△
C337,338	nsp	CE04W1C332MC(RA3)			
C339,340	nsp	CE04W1H100MT(RA3)			
C341	nsp	CQ93M2A104JT(PEF)			△
C405,406	nsp	CQ93P2D470K(FAS)			*
C407,408	nsp	CQ93M2E151J(LP)			△
C409,410	nsp	CQ93M2A102JT(PEF)			△
C411,412	nsp	CQ93M2E101J(LP)			△
C413,414	nsp	CQ93M2A332JT(PEF)			△
C415,416	nsp	CE04W1H101MT(RA3)			
C417,418	nsp	CQ93P2A683JT(PPF)			△
C419,420	nsp	CQ93M2A122JT(PEF)			△
C421,422	nsp	CQ93M2A183JT(PEF)			△
C423,424	nsp	CE04W1H100MT(RA3)			
C425,426	nsp	CQ93M2A102JT(PEF)			△
C427,428	00D2544774706	CE04W1E101MF(RFS#A)			
C429	nsp	CE04W1H101MT(RA3)			
C431,432	00D2544702956	CE04W1H100MT(RFS#A)			
C502,503	nsp	CQ93M2A103JT(PEF)			△
C621,622	nsp	CE04W1H470MT(RA3)			
C701,702	nsp	CE04W1H4R7MT(RA3)			
C709,710	nsp	CE04W1H100MT(RA3)			
C711,712	nsp	CE04W1H100MT(RA3)			
C713,714	nsp	CF93A1H333JT (JL)			
C715,716	nsp	CE04W1HR22MT(RA3)			
C717,718	nsp	CE04W1HOR1MT(GR)			
C719,720	nsp	CE04W1HR47MT SMG/RE3			
C721,722	nsp	CQ93M2A332JT(PEF)			△
C723	nsp	CQ93M2E101J(LP)			△
C724	nsp	CQ93M2E101J(LP)			△
OTHERS PARTS GROUP					
CW101	nsp	10P EH-SCN CON.CORD			
CX061	nsp	6P CONN BASE			
CX072	nsp	7P CONNE BASE(RED)			
CX081	nsp	8P CONNE.BASE (RED)			
CX082	nsp	8P CONN.BASE(KR-PH)			
CX091	nsp	9P CONN.BASE(KR-PH)			
CX102	nsp	10P CON.BASE(KR-PH)			
CX151	nsp	15P CONN.BASE(KR-PH)			
CY031,032	nsp	3P CONN.BASE(KR-PH)			
CY033	nsp	3P EH CONNECTOR BASE			
CY034	nsp	3P EH CON BASE (BK)			
CY035	nsp	3P EH SID CONN BASE			
CY051	nsp	5P CONN.BASE(KR-PH)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	CY064	nsp	6P KR CON BASE(L)			
	CY102	nsp	10P CON.BASE(KR-PH)			
	CY151	nsp	15P KR CON BASE(L)			
△	F301,302	00D2061031045	FUSE (0.25)A			
	FF301,302	nsp	FUSE CLIP(TAPE)			
	FH301,302	nsp	FUSE CLIP(TAPE)			
	J401,402	nsp	VINYL WIRE			
	JK201,202	643010048000S	4P PIN JACK(MSP-244V4)-AU			
	JK601	643010048000S	4P PIN JACK(MSP-244V4)-AU			
	L401-404	nsp	FTZ CHOKE COIL			
	RL201,202	00D2140127003	RELAY(RY-12W)			
	S401	665010011008D	1P PUSH SWITCH(4-2)			
	S502	00D2120405004	ROTARY SW(6-1)			
	S503	00D2120407002	ROTALY SW.(SRRM-12)			
	ST301,302	nsp	STYLE PIN			
	ST501	nsp	STYLE PIN			
	ST701	nsp	STYLE PIN			
	ST703	nsp	STYLE PIN			
	X301	nsp	CSTLS4M19G56-A0			
		nsp	RUBBER SHEET	C723,724		