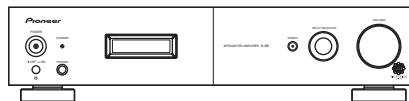


Service Manual



A-A9-J

ORDER NO.
RRV3515

INTEGRATED AMPLIFIER

A-A9-J

A-A6-J

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

Model	Type	Power Requirement	Remarks
A-A9-J	MYXCN5	AC 220 V to 230 V	
A-A6-J	MYXCN5	AC 220 V to 230 V	



For details, refer to "Important Check Points for good servicing".



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

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)

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.

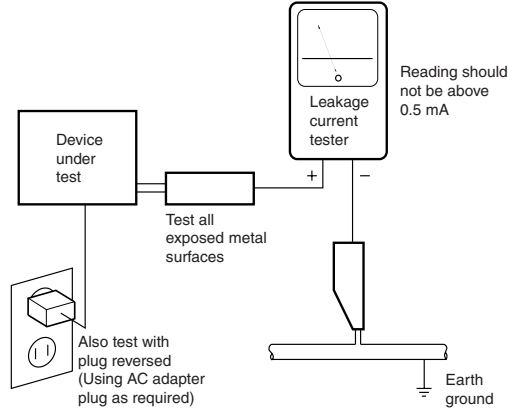
(FOR USA MODEL ONLY)

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 switch 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.

LITHIUM BATTERY NOTICE

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

When replacing the lithium batteries, follow the note below. Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note : The lithium battery installation position is shown in the exploded views.

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[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

A

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

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2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

E

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

F

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

F

CONTENTS

1. SPECIFICATIONS	6
2. EXPLODED VIEWS AND PARTS LIST	7
2.1 A-A9 model	7
2.1.1 PACKING (A-A9)	7
2.1.2 EXTERIOR (A-A9)	8
2.2 A-A6 model	11
2.2.1 PACKING (A-A6)	11
2.2.2 EXTERIOR (A-A6)	12
3. BLOCK DIAGRA AND SCHEMATIC DIAGRAM	16
3.1 OVERALL BLOCK DIAGRAM	16
3.2 OVERALL WIRING DIAGRAM	18
3.3 FUNCTION and HEADPHONE ASSYS	20
3.4 FRONT, MOTOR VR, REMOCON, STATION, POWER LED and VR ASSYS	22
3.5 XM-READY/USB ASSY	24
3.6 AMP LCH, AMP RCH, PROTECTION L-CH and PROTECTION R-CH ASSYS	26
3.7 REG IC, SUB TRANS, POWER SW and POWER ASSYS	28
4. PCB CONNECTION DIAGRAM	30
4.1 SUB TRANS and POWER SW ASSYS	31
4.2 FANCTION and HEADPHONE ASSYS	32
4.3 FRONT, REMOCON, POWER LED and VR ASSYS	34
4.4 STATION and MOTOR VR ASSYS	36
4.5 XM-READY/USB ASSY	38
4.6 AMP LCH, PROTECTION L-CH and SPEAKER L-CH ASSY	40
4.7 AMP RCH, PROTECTION R-CH and SPEAKER R-CH ASSY	42
4.8 REG IC and POWER ASSYS	44
5. PCB PARTS LIST	46
6. ADJUSTMENT	54
7. GENERAL INFORMATION	55
7.1 TROUBLE SHOOTIG	55
7.2 SPECIFICATION OF PROTECTIVE OPERATION	56
7.3 DISCHARGE OF POWER AMPLIFIER	56
7.4 PCB LOCATION	57
7.5 DISASSEMBLY	58
7.6 IC INFORMATION	62
8. PANEL FACILITIES	66

1. SPECIFICATIONS

Amplifier section

Power output specification is for when power supply is 230V.

Continuous power output

(both channels driven at 20 Hz to 20 kHz)

THD 0.2%.....	60 W + 60 W	: A6 model
THD 0.2%.....	45 W + 45 W	: A6 model
THD 0.2%.....	70 W + 70 W	: A9 model
THD 0.2%.....	55 W + 55 W	: A9 model

DIN Continuous power output (both channels driven at 1 kHz)

THD 1.0%, 4Ω.....	60 W + 60 W	: A6 model
THD 1.0%, 8Ω.....	45 W + 45 W	: A6 model
THD 1.0%, 4Ω.....	73 W + 73 W	: A9 model
THD 1.0%, 8Ω.....	53 W + 53 W	: A9 model

Total harmonic distortion**

20 Hz to 20 kHz, 25 W, 8Ω.....	0.05%*
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* Measured with DIRECT button switched on.

** Measured by Audio Spectrum Analyzer

Audio section

Input (Sensitivity/Impedance)

CD, TAPE, TUNER, AUX.....	200 mV/47 kΩ
PHONO (MM).....	2.8 mV/47 kΩ
PHONO (MC).....	0.3 mV/100 kΩ : A9 model

Frequency Response

CD, TAPE, TUNER, AUX.....	5 Hz to 100 kHz $\begin{smallmatrix} +0 \\ -3 \end{smallmatrix}$ dB
PHONO (MM).....	20 Hz to 20 kHz ± 0.2 dB
PHONO (MC).....	20 Hz to 20 kHz ± 0.3 dB : A9 model

PHONO (MM) overload level

1 kHz, THD 0.2%.....	60 mV
----------------------	-------

PHONO (MC) overload level

1 kHz, THD 0.2%.....	6 mV : A9 model
----------------------	-----------------

Output (Level/Impedance)

TAPE REC.....	200 mV/1 kΩ
---------------	-------------

Tone Control

Bass.....	± 10 dB (100 Hz)
Treble.....	± 10 dB (10 kHz)

Signal-to-Noise Ratio

CD, TAPE, TUNER, AUX (200 mV input).....	103 dB
PHONO (MM, 5 mV input).....	80 dB
PHONO (MC, 0.2 mV input).....	70 dB : A9 model

Signal-to-Noise Ratio (DIN, continuous power/50 mW)

CD, TAPE, TUNER, AUX.....	91 dB/65 dB
PHONO (MM, 5 mV input).....	68 dB/60 dB
PHONO (MC, 0.2 mV input).....	62 dB/57 dB : A9 model

Miscellaneous

Power requirement

.....	AC 220 V to 230 V, 50 Hz/60 Hz
Power Consumption.....	140 W : A6 model
In standby.....	0.5 W : A6 model
Power Consumption.....	200 W : A9 model
In standby.....	0.6 W : A9 model
Weight (without package).....	10 kg : A6 model
Weight (without package).....	1.5 kg : A9 model
Dimensions.....	420 mm (W) × 100 mm (H) × 359 mm (D) : A6 model
Dimensions.....	420 mm (W) × 100 mm (H) × 369 mm (D) : A9 model

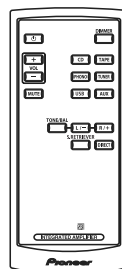
Furnished parts

Remote control.....	1
Lithium battery (CR2025).....	1
Power cable.....	1
Warranty card.....	1
Operating instructions.....	1

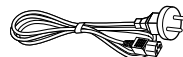
Specifications and the design are subject to possible modifications without notice, due to improvements.

Accessories

- Remote Control Unit
(A-A9-J : 8300746900010-IL)
(A-A6-J : 8300747200010-IL)
- Lithium Battery
(CR2025)



- Power Cable
(L068250160020-IL)



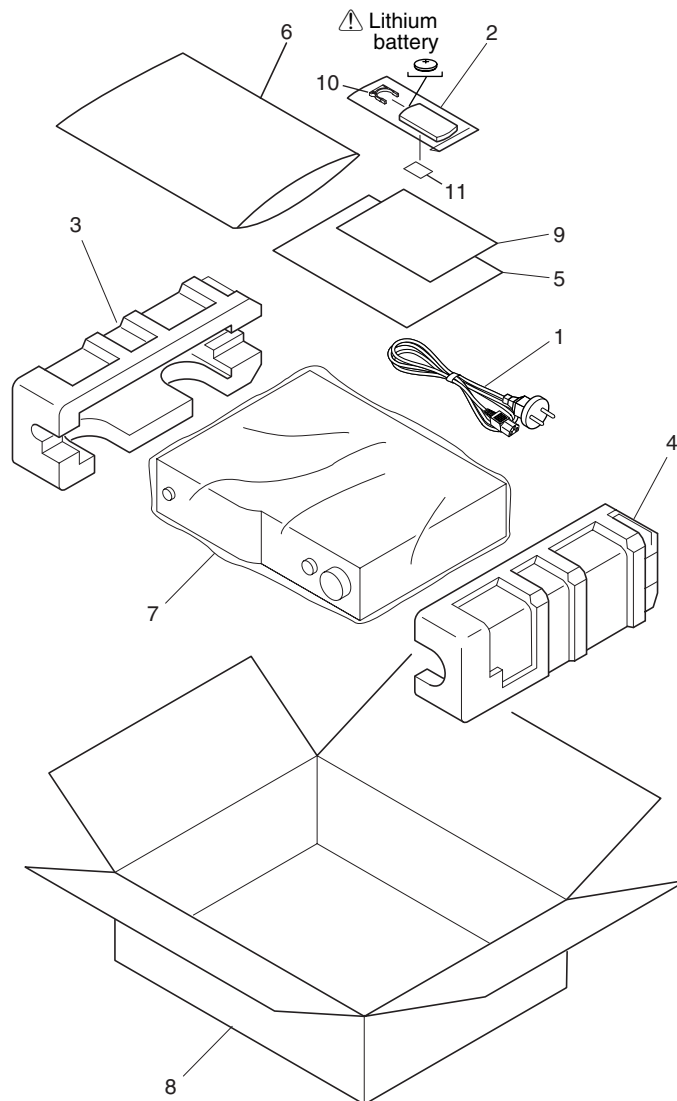
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2. EXPLODED VIEWS AND PARTS LIST

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 A-A9 model

2.1.1 PACKING (A-A9)



PACKING (A-A9)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
⚠ 1	POWER CABLE	L068250160020-IL	10	BATTERY COVER B	AZN8024
2	REMOTE CONTROL	8300746900010-IL	11	LABEL (WEEE)	ARW7322
3	CUSHION,SNOW L	6230211534000-IL			
4	CUSHION,SNOW R	6230211544000-IL			
5	OPERATING INSTRUCTIONS (English/French/German/Dutch/Italian/Spanish)	5707000000170-IL			
NSP 6	POLY BAG	6337000240010-IL			
7	PE,SHEET	6327040022012-IL			
8	BOX,GIFT	6007210940010-IL			
NSP 9	WARRANTY CARD	ARY7065			

1 2 3 4

2.1.2 EXTERIOR (A-A9)

• A-A9 model

A

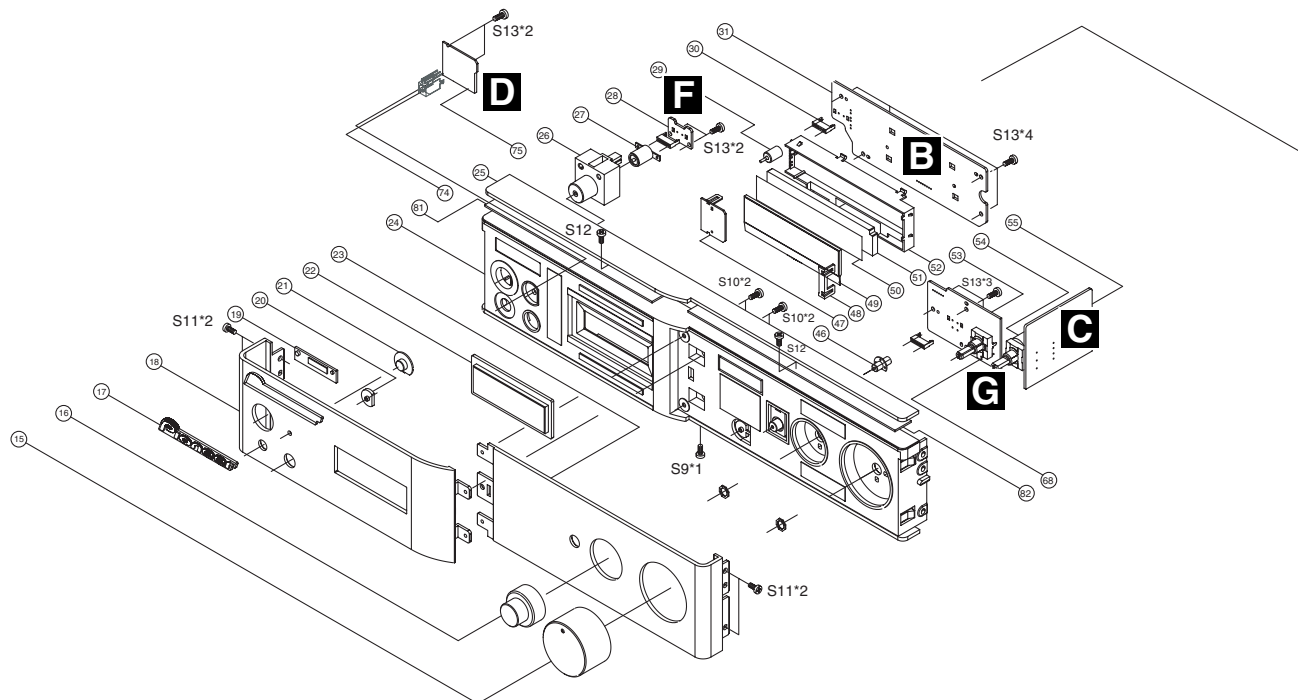
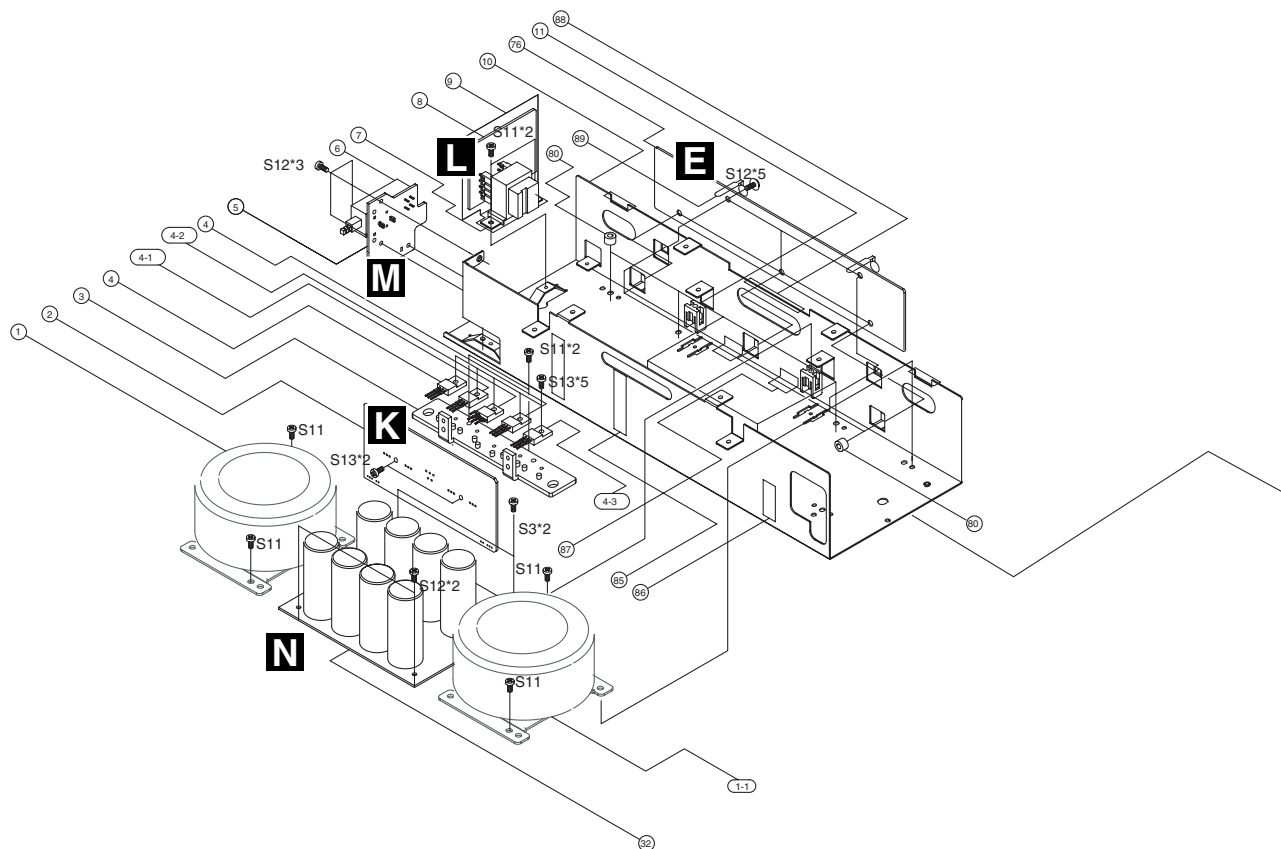
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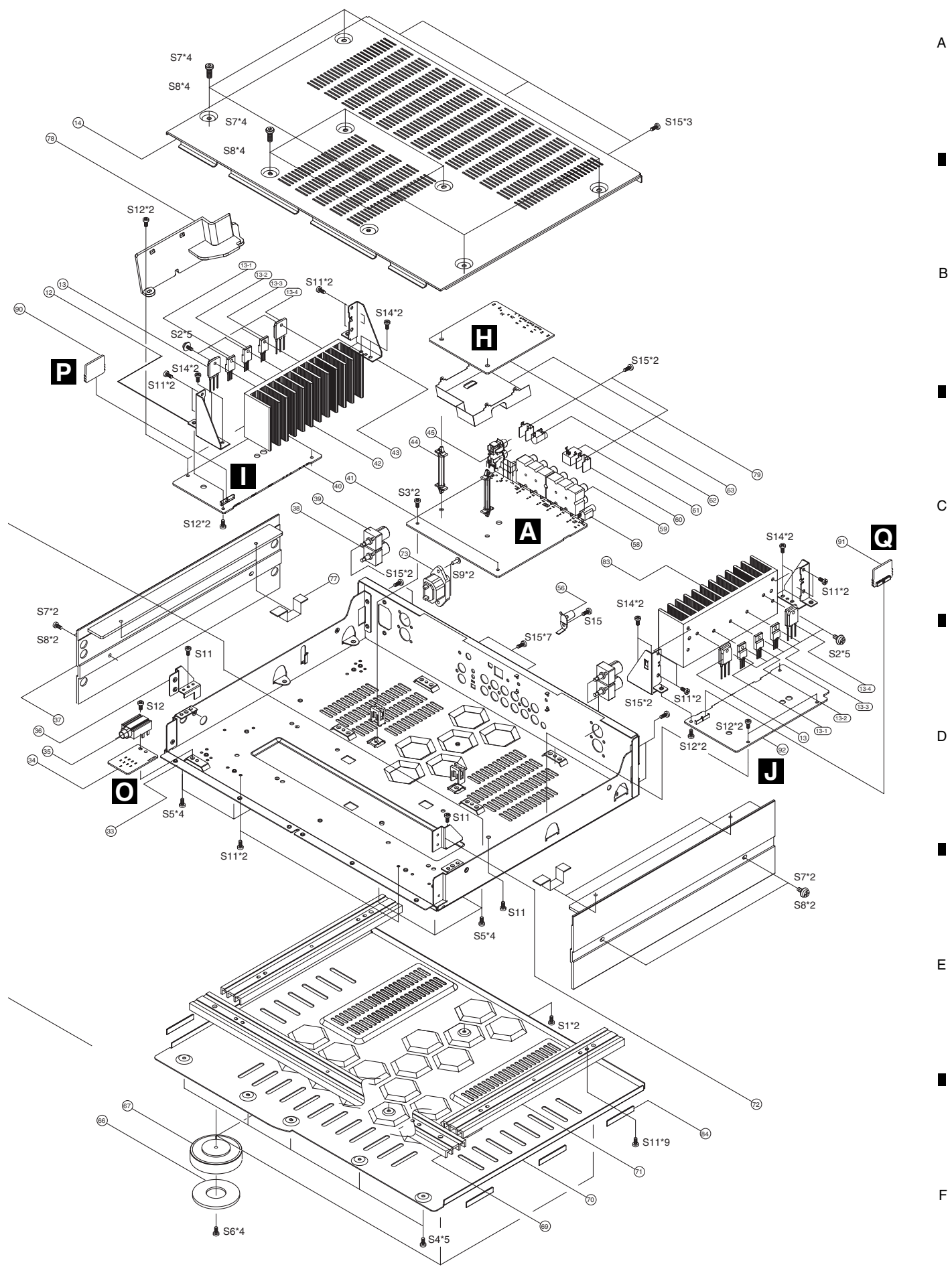
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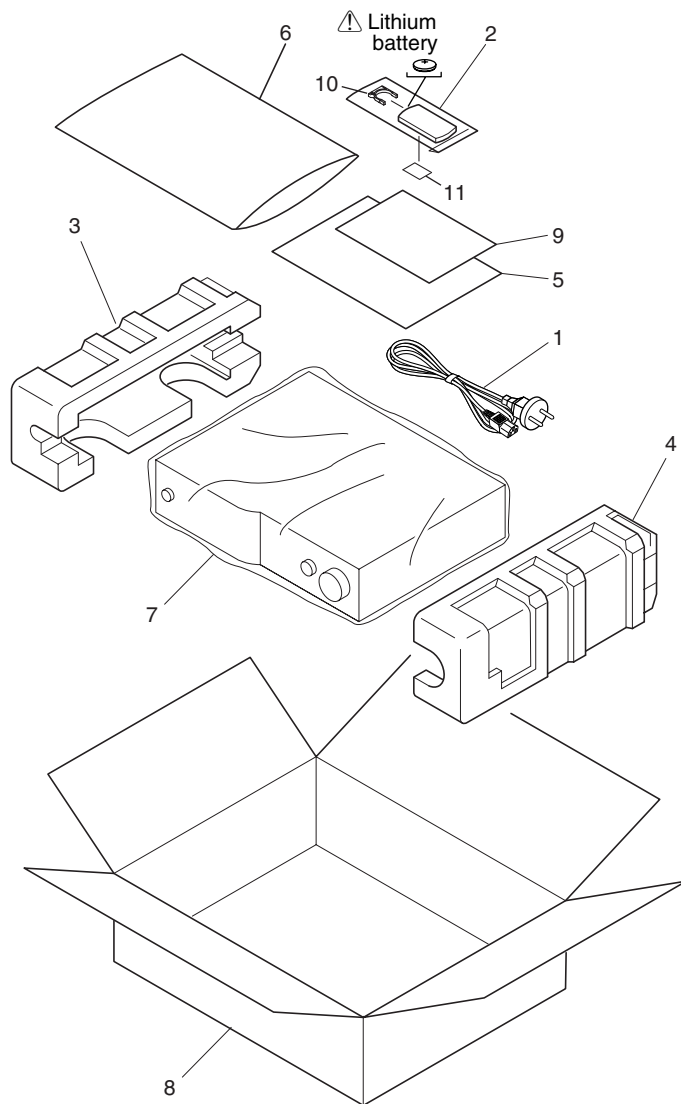


• EXTERIOR (A-A9)

	Mark No.	Description	Part No.	Mark No.	Description	Part No.
A	⚠ 1	POWER TRANS L	8200900550010-IL	55	MOTOR VR Assy	7028065355060-IL
	⚠ 1-1	POWER TRANS R	8200900550060-IL	56	TERMINAL GROUND	3790000090000-IL
	2	REG IC Assy	7028065471020-IL	59	JACK RCA 6PIN	G603617AG04GY-IL
	3	HEAT SINK TR	2120211008000-IL	60	SHIELD PLATE GROUND	3070045526010-IL
	4	IC,REG	J126781200040-IL	61	CN,PLUG CONTACT	G480670680010-IL
	4-1	IC,REG	J126791200060-IL	62	EARPHONE JACK	G40130802000Y-IL
	5	POWER SW Assy	7028065357060-IL	63	XM-READY/USB Assy	7028065362060-IL
	6	S/W POWER	VSA1005	66	FELT FOOT CAST	2690210119000-IL
B	7	TRANS SUB	8200280150330-IL	67	FOOT CAST	4007210408000-IL
	8	SUB TRANS Assy	702806535A060-IL	68	ENCODER SW	G121162400050-IL
	9	PLATE SUB TRANS	4470211012000-IL	69	BAR BOTTOM FRONT	1040000018000-IL
	10	BRACKER TRANS	4010212736000-IL	70	COVER BOTTOM	4317212946000-IL
	11	SUPPORT PCB	4070001601010-IL	71	BAR BOTTOM SIDE	1040000028000-IL
	12	BRACKER HEAT SINK L	4010212716000-IL	72	BRACKET FRAME R	4010212706000-IL
	⚠ 13	SEMI,TR	J5001386A0010-IL	73	AC INLET	G430019090010-IL
	⚠ 13-1	SEMI,TR	2SA1859A	74	MODULE	E940633800000-IL
C	⚠ 13-2	SEMI,TR	J5024137V0130-IL	75	REMOCON Assy	7028065356060-IL
	⚠ 13-3	SEMI,TR	ASC4883A	76	STATION Assy	7028065461020-IL
	⚠ 13-4	SEMI,TR	J5023519A0010-IL	77	HOLDER CHIP	4320210591000-IL
	14	CABINET TOP COVER	3007210786000-IL	78	HOLDER INLET CORD	4320210601000-IL
	15	KNOB VOLUME	5088211378000-IL	79	SHIELD PLATE USB	3070210286000-IL
	16	KNOB INPUT	5088211368000-IL	80	CUSHION SCREW	4050211205000-IL
	17	BADGE	VAM1124	NSP 81	TAPE PLATE TOP(E)	1220210299000-IL
	18	PANEL FRONT L	3067212778000-IL	NSP 82	TAPE PLATE TOP(F)	1220210309000-IL
D	19	GUIDE BADGE	4357210221000-IL	NSP 83	HEAT SINK MAIN R	2120211048000-IL
	20	GUIDE LENS	4357210241000-IL	84	CUSHION SIDE PANEL	4050211725000-IL
	21	LENS REMOCON	3710210683000-IL	NSP 85	ACETAPE(15*80)	1220210059070-IL
	22	WINDOW DISPLAY	5070212303000-IL	NSP 86	ACETAPE(15*45)	1220210059050-IL
	23	PANEL FRONT R	3067212798000-IL	NSP 87	ACETAPE(33*50)	1220210319000-IL
	24	FRAME PANEL	3217211301000-IL	NSP 88	ACETAPE(15*110)	1220210059000-IL
	25	PLATE TOP	4477211028000-IL	89	BAR BOTTOM FRONT	4330210062000-IL
	26	KNOB POWER	5087211391000-IL	90	PROTECTION L-CH ASSY	7028065363010-IL
E	27	LENS POWER	3710210673000-IL	91	PROTECTION R-CH ASSY	7028065364010-IL
	28	POWER LED Assy	7028065358060-IL	92	AMP RCH ASSY	7028065352010-IL
	29	LENS STAND BY	3710210693000-IL	S1	SCREW (+2S 3*8 B-TYPE BK/BH)	B020030083B10-IL
	30	STOPPER LED	4380210081000-IL	S2	SCREW (+2S 3*14 P+S-WASHER ZNY/HH)	B018230141H11-IL
	31	FRONT Assy	7028065354060-IL	S3	SCREW (+2S 3*17 B-TYPE ZNY/BH)	B020030171B10-IL
	32	POWER Assy	7025065353060-IL	S4	SCREW (+2S 3*17 B-TYPE BK/BH)	B020030173B10-IL
	NSP 33	CHASSIS MAIN & BACK	3207212016200-IL	S5	SCREW (+2S 4*10 ZNY/HH)	B028940101B10-IL
	34	HEADPHONE Assy	702806535B060-IL	S6	SCREW (+3S 4*27 S-TYPE BK/BH)	B020740273B10-IL
F	35	JACK PHONE	G402PJ612AG0Y-IL	S7	SCREW (+2S 4*10 B-TYPE CR-PLATE)	1500040103P41-IL
	36	BRACKET FRAEM L	4010212696000-IL	S9	SCREW (+2S 3*8 B-TYPE FH/CU)	B020030086F10-IL
	37	PANEL SIDE	3067212818000-IL	S10	SCREW (+2S 3*10 B-TYPE BH/CU)	B020030106B10-IL
	38	TER,BOARD SCREW(BK)	G610040300000-IL	S11	SCREW (+2S 3*8 B-TYPE(DOT) BH/CU)	B020030086B11-IL
	39	TER,BOARD SCREW(RD)	G610040310000-IL	S12	SCREW (+2S 3*8 B-TYPE WASHER BH/CU)	B028030086B10-IL
	40	AMP LCH Assy	7028065351010-IL	S13	SCREW (+2S 3*8 B-TYPE BH/CU)	B020030086B10-IL
	41	FUNCTION Assy	7028065361060-IL	S14	SCREW (+2S 3*6 B-TYPE BH/CU)	B020030066B10-IL
	NSP 42	HEAT SINK MAIN L	2120210998000-IL	S15	SCREW (+3S 3*10 B-T(DOT) BH/CU))	B020030106B11-IL
	43	BRACKER HEAT SINK R	4010212726000-IL			
	44	SPACER SUPPORT	4300210023000-IL			
	45	JACK RCA 2PIN	7028065355060-IL			
	46	LENS DIRECTY	3710210663000-IL			
	47	COVER LCD L	4310212951000-IL			
	48	COVER LCD R	4310212961000-IL			
	49	LCD DISPLAY	AAV7111			
	50	SHEET LCD DIFFUSION	1210210382000-IL			
	51	WINDOW RAT LCD	5070212313000-IL			
	52	HOUSING LCD	3050210051000-IL			
	53	VR Assy	7028065359060-IL			
	54	ROTARY MOTOR	C495121400350-IL			

2.2 A-A6 model

2.2.1 PACKING (A-A6)

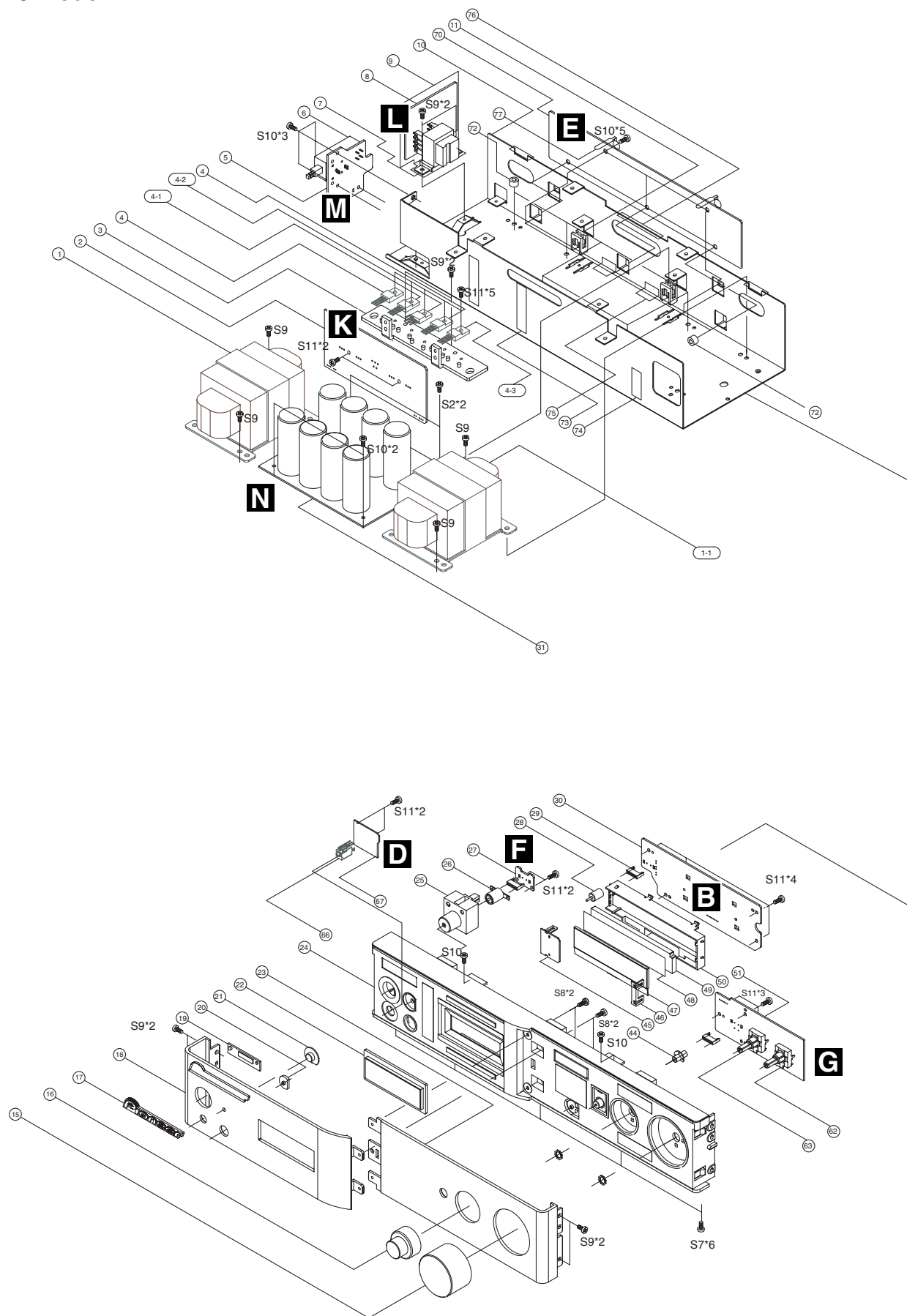


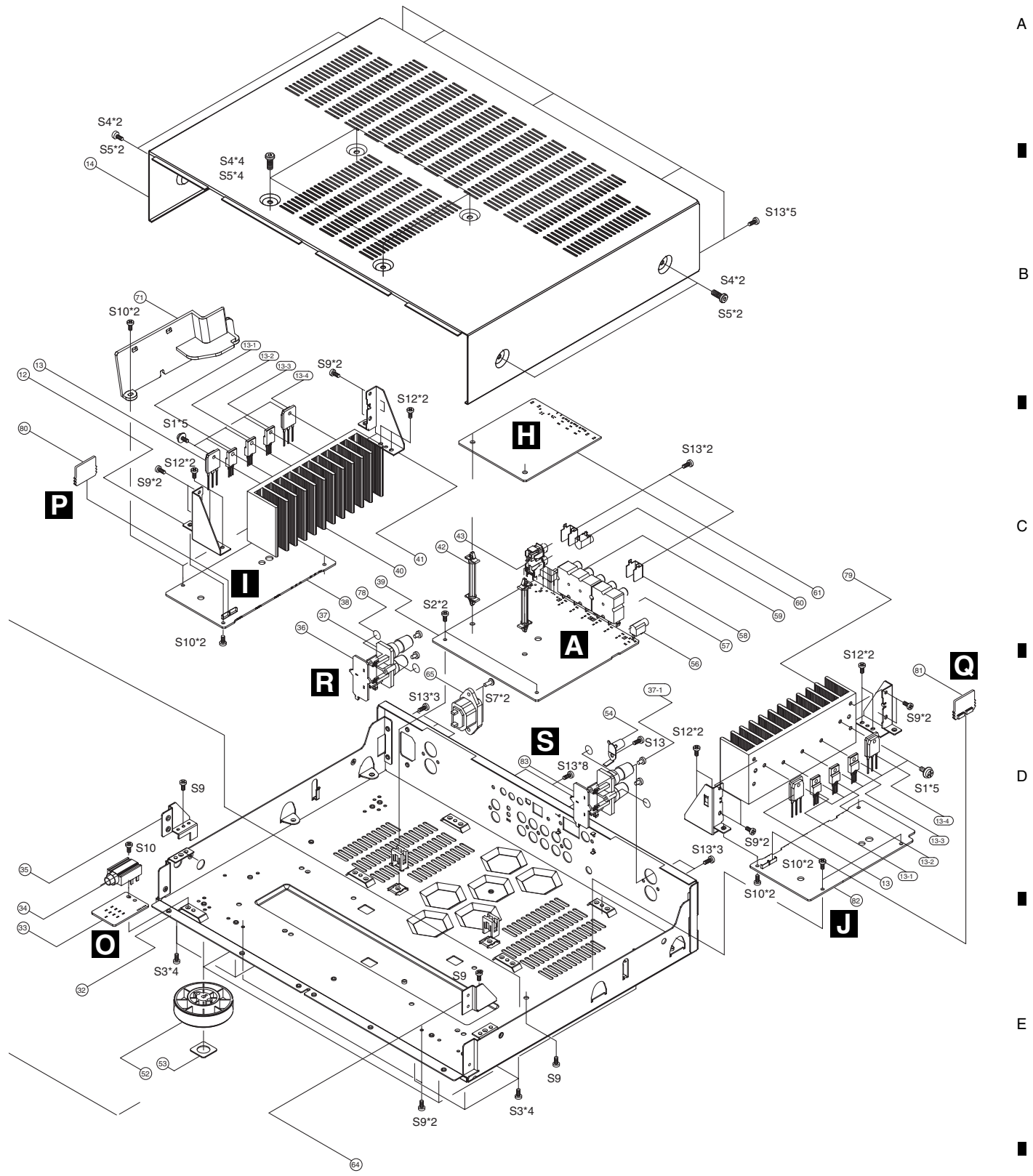
• PACKING (A-A6)

Mark	No.	Description	Part No.
⚠	1	POWER CABLE	L068250160020-IL
	2	REMOTE CONTROL	8300747200010-IL
	3	CUSHION,SNOW L	6230211514000-IL
	4	CUSHION,SNOW R	6230211524000-IL
	5	OPERATING INSTRUCTIONS (English/French/German/Dutch/Italian/Spanish)	5707000000120-IL
NSP	6	POLY BAG	6337000240010-IL
	7	PE,SHEET	6327040022012-IL
	8	BOX,GIFT	6007210930010-IL
NSP	9	WARRANTY CARD	ARY7065
	10	BATTERY COVER B	AZN8024
	11	LABEL (WEEE)	ARW7322

2.2.2 EXTERIOR (A-A6)

• A-A6 model





• EXTERIOR (A-A6)

	Mark No.	Description	Part No.	Mark No.	Description	Part No.
A	⚠ 1	TRANS MAIN L	8200660550340-IL	49	WINDOW RAT LCD	5070212313000-IL
	⚠ 1-1	TRANS MAIN R	8200660550390-IL	50	HOUSING LCD	3050210051000-IL
	2	REG IC Assy	7028065471010-IL	51	VR Assy	7028065359010-IL
	3	HEAT SINK TR	2120211008000-IL	52	FOOT	4000210391000-IL
	4	IC,REG	J126781200040-IL	53	CUSHION FOOT	4050211605000-IL
	4-1	IC,REG	J126791200060-IL	54	TERMINAL GROUND	3790000090000-IL
	5	POWER SW Assy	7028065357010-IL	57	JACK RCA 6PIN	G602617AG020Y-IL
	6	S/W POWER	VSA1005	58	SHIELD PLATE GROUND	3070045526010-IL
B	7	TRANS SUB	8200280150330-IL	59	RCA JACK 6PIN	G603617AG04GY-IL
	8	SUB TRANS Assy	702806535A010-IL	60	EARPHONE JACK	G40130802000Y-IL
	9	PLATE SUB TRANS	4470211012000-IL	61	XM-READY/USB Assy	7028065362010-IL
	10	BRACKER TRANS	4010212736000-IL	62	ENCODER, SW/ VOLUME	G121162401200-IL
	11	SUPPORT PCB	4070001601010-IL	63	ENCODER, SW/ INPUT	G121162400050-IL
	12	BRACKER HEAT SINK L	4010212716000-IL	64	BRACKET FRAME R	4010212706000-IL
	⚠ 13	SEMI,TR	J5001386A0010-IL	65	AC INLET	G430019090010-IL
	⚠ 13-1	SEMI,TR	2SA1859A	66	MODULE	E940633800000-IL
C	⚠ 13-2	SEMI,TR	J5024137V0130-IL	67	REMOCON Assy	7028065356010-IL
	⚠ 13-3	SEMI,TR	2SC4883A	70	STATION Assy	7028065461010-IL
	⚠ 13-4	SEMI,TR	J5023519A0010-IL	71	HOLDER INLET CORD	4320210601000-IL
	14	CABINET TOP COVER	3007210796000-IL	72	CUSHION SCREW	4050211205000-IL
	15	KNOB VOLUME	5088211388000-IL	NSP 73	ACETAPE(15*80)	1220210059070-IL
	16	KNOB INPUT	5088211368000-IL	NSP 74	ACETAPE(15*45)	1220210059050-IL
	17	BADGE	VAM1124	NSP 75	ACETAPE(33*50)	1220210319000-IL
	18	PANEL FRONT L	3067212788000-IL	NSP 76	ACETAPE(15*110)	1220210059000-IL
D	19	GUIDE BADGE	4357210221000-IL	77	CLAMP RETAINER COIL	4330210062000-IL
	20	GUIDE LENS	4357210241000-IL	NSP 78	CUSHION CAP SCREW	4050211745000-IL
	21	LENS REMOCON	3710210683000-IL	NSP 79	HEAT SINK MAIN R	2120211048000-IL
	22	WINDOW DISPLAY	5070212303000-IL	80	PROTECTION L-CH ASSY	7028065363010-IL
	23	PANEL FRONT R	3067212808000-IL	81	PROTECTION R-CH ASSY	7028065364010-IL
	24	FRAME PANEL	3217211311000-IL	82	AMP RCH ASSY	7028065352010-IL
	25	KNOB POWER	5087211391000-IL	83	SPAKER R-CH Assy	7028065463010-IL
	26	LENS POWER	3710210673000-IL	S1	SCREW (+2S 3*8 B-TYPE BK/BH)	B020030083B10-IL
E	27	POWER LED Assy	7028065358010-IL	S2	SCREW (+2S 3*14 P+S-WASHER ZNY/HH)	B018230141H11-IL
	28	LENS STAND BY	3710210693000-IL	S3	SCREW (+2S 4*10 ZNY/HH)	B020030171B10-IL
	29	STOPPER LED	4380210081000-IL	S4	SCREW (1500040103P41S)	B020030173B10-IL
	30	FRONT Assy	7028065354010-IL	S5	SCREW (1500040104P41S)	B028940101B10-IL
	31	POWER Assy	7025065353010-IL	S6	SCREW (+3S 4*17 S-TYPE BK/BH)	B020740273B10-IL
	NSP 32	CHASSIS MAIN & BACK	3207212016000-IL	S7	SCREW (+2S 3*8 B-TYPE FH/CU)	B020030086F10-IL
	33	HEADPHONE Assy	702806535B060-IL	S8	SCREW (+2S 3*10 B-TYPE BH/CU)	B020030106B10-IL
	34	JACK PHONE	G402PJ612AG0Y-IL	S9	SCREW (+2S 3*8 B-TYPE(DOT) BH/CU)	B020030086B11-IL
F	35	BRACKET FRAEM L	4010212696000-IL	S10	SCREW (+2S 3*8 B-TYPE WASHER BH/CU)	B028030086B10-IL
	36	SPAKER L-CH Assy	7028065462010-IL	S11	SCREW (+2S 3*8 B-TYPE BH/CU)	B020030086B10-IL
	37	JACK SPEAKER	G611202H0100Y-IL	S12	SCREW (+2S 3*6 B-TYPE BH/CU)	B020030066B10-IL
	37-1	BUSHING TREMINAL	2410040353010-IL	S13	SCREW (+3S 3*10 B-T(DOT) BH/CU))	B020030106B11-IL
	38	AMP LCH Assy	7028065351010-IL			
	39	FUNCTION Assy	7028065361010-IL			
	NSP 40	HEAT SINK MAIN L Assy	2120210998000-IL			
	41	BRACKER HEAT SINK R	4010212726000-IL			
	42	SPACER SUPPORT	4300210023000-IL			
	43	JACK RCA 2PIN	G601207BG020Y-IL			
	44	LENS DIRECT	3710210663000-IL			
	45	COVER LCD L	4310212951000-IL			
	46	COVER LCD R	4310212961000-IL			
	47	LCD DISPLAY	AAV7111			
	48	SHEET LCD DIFFUSION	1210210382000-IL			

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A

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B

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D

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E

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A-A9-J

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8

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3. BLOCK DIAGRA AND SCHEMATIC DIAGRAM

3.1 OVERALL BLOCK DIAGRAM

A

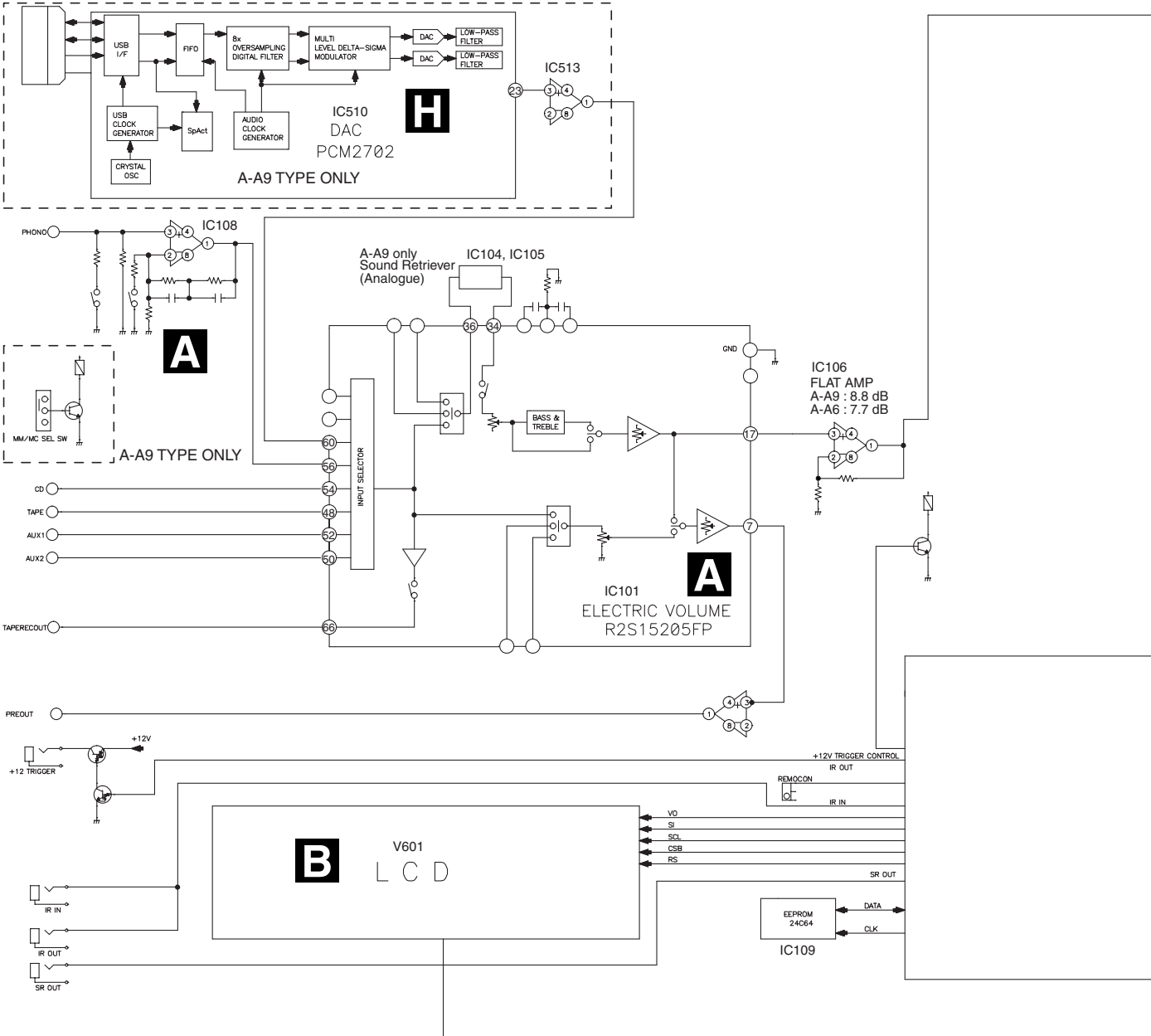
B

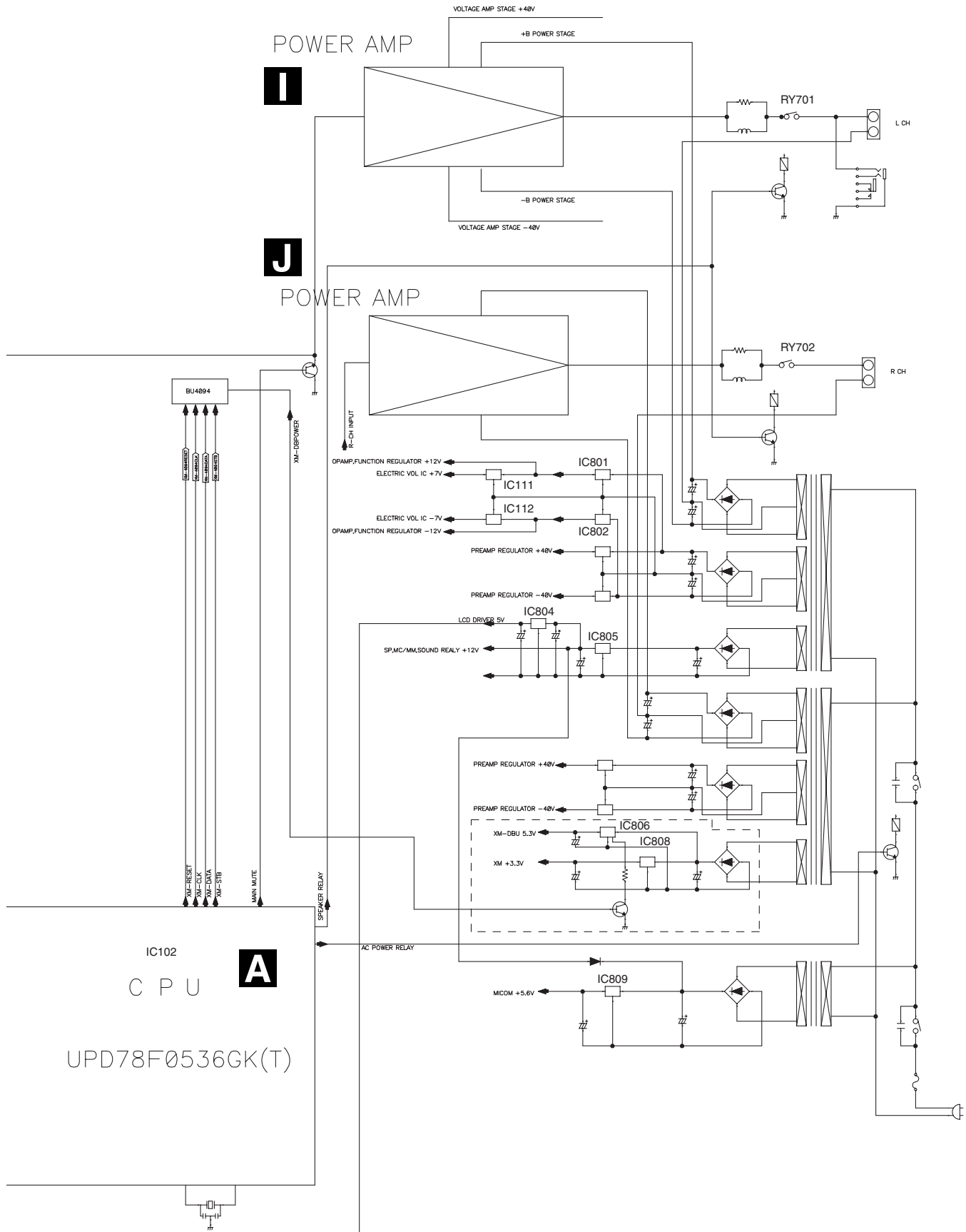
C

D

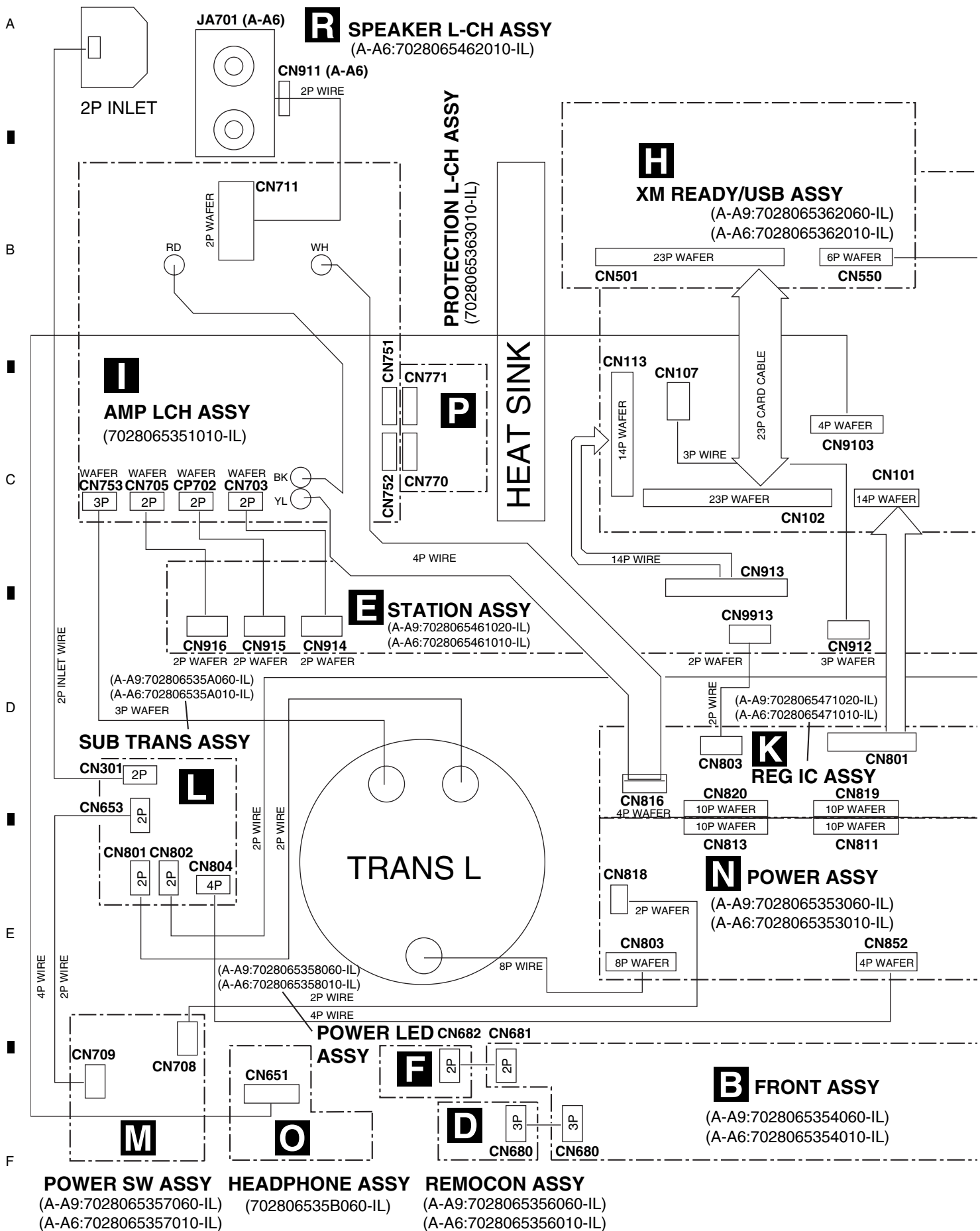
E

F





3.2 OVERALL WIRING DIAGRAM



A



C

4

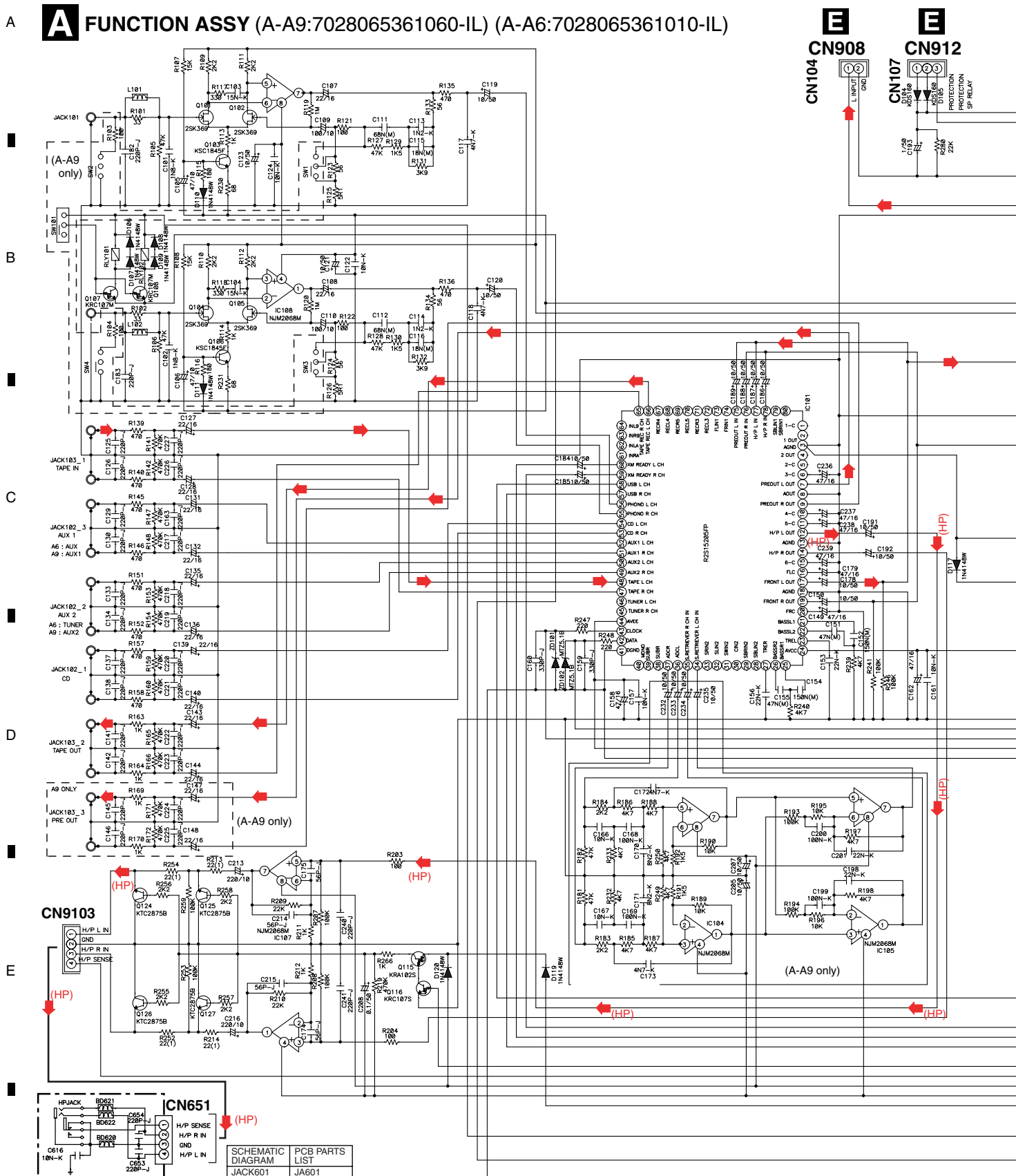
E

F

- 19

3.3 FUNCTION and HEADPHONE ASSYS

A FUNCTION ASSY (A-A9:7028065361060-IL) (A-A6:7028065361010-IL)

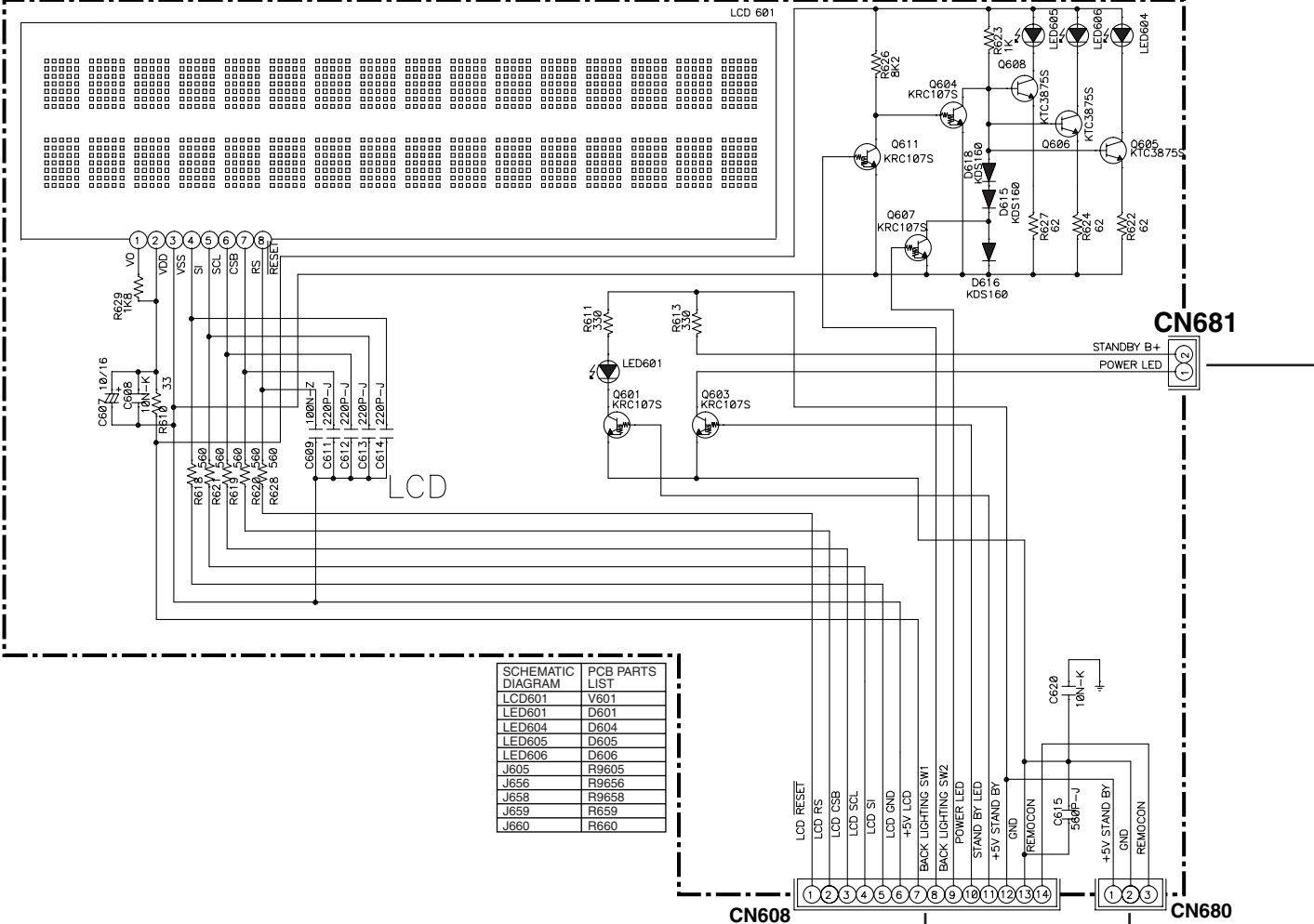


F HEADPHONE ASSY (702806535B060-IL)

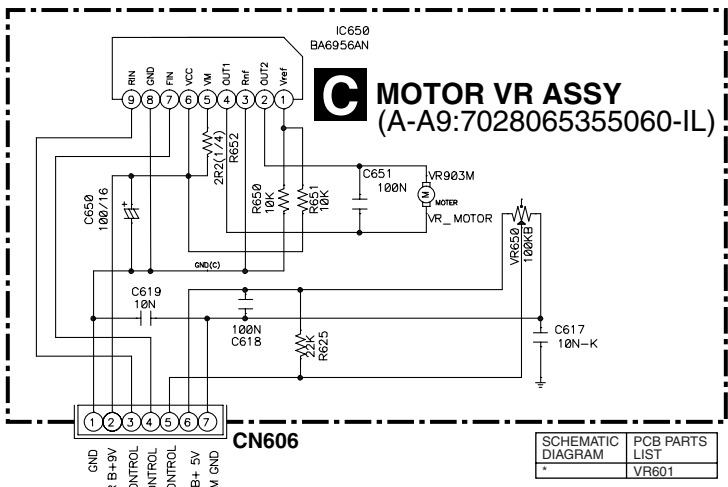
A O

3.4 FRONT, MOTOR VR, REMOCON, STATION, POWER LED and VR ASSYS

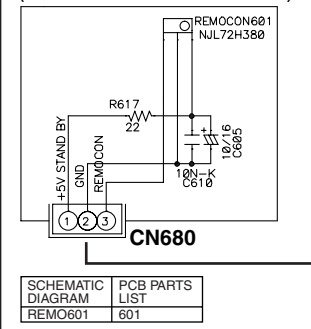
B FRONT ASSY
(A-A9:7028065354060-IL)
(A-A6:7028065354010-IL)



C MOTOR VR ASSY
(A-A9:7028065355060-IL)

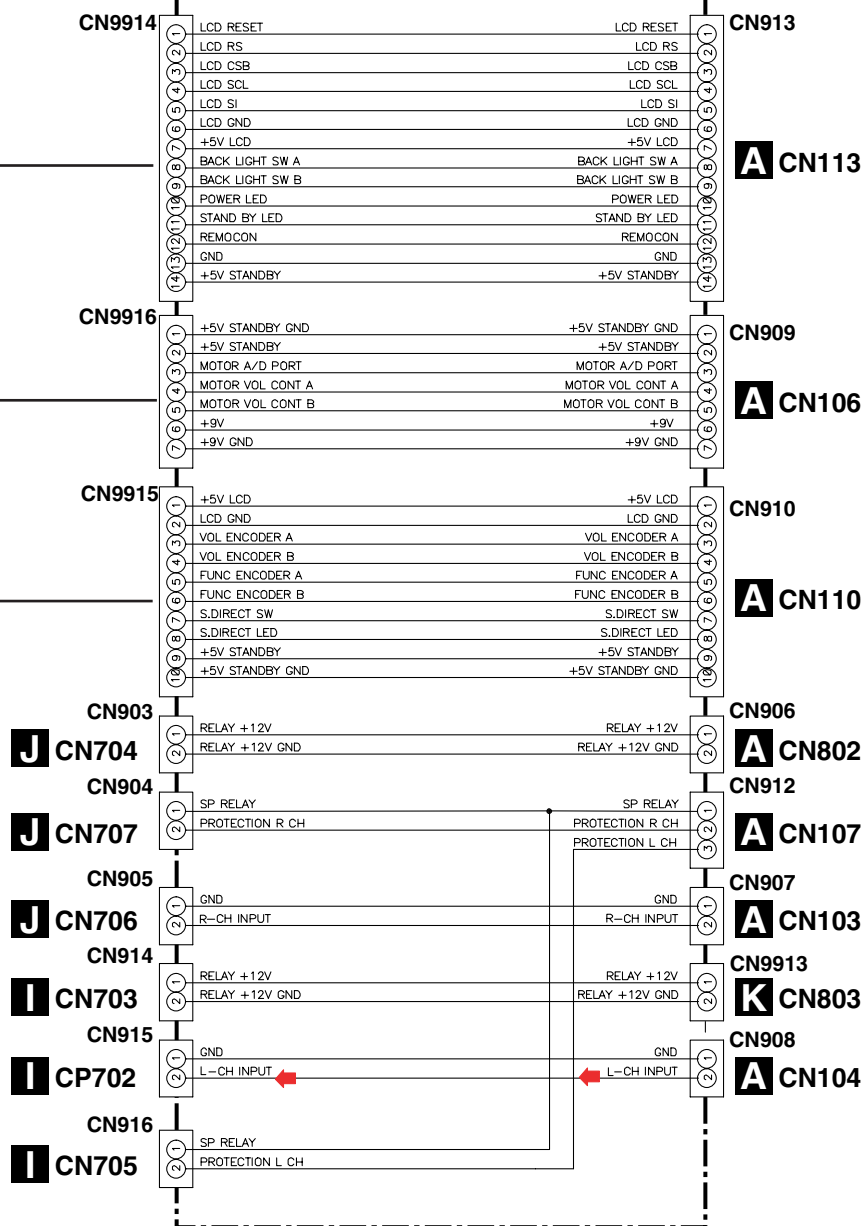
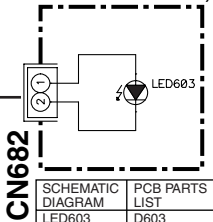


D REMOCON ASSY
(A-A9:7028065356060-IL)
(A-A6:7028065356010-IL)



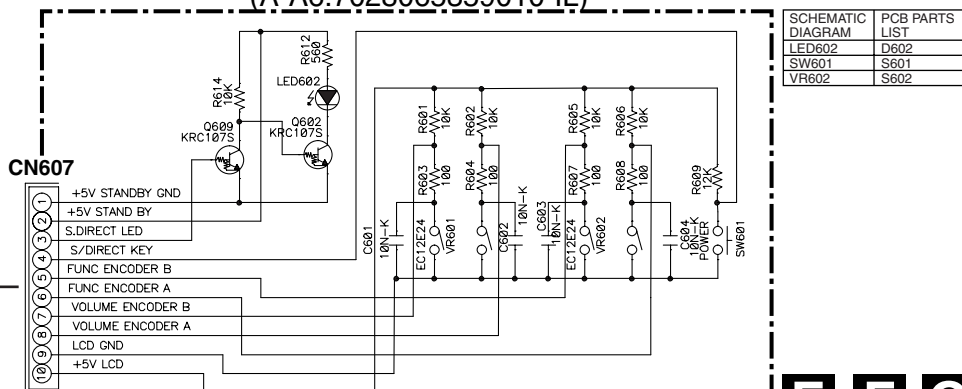
E STATION ASSY (A-A9:7028065461020-IL) (A-A6:7028065461010-IL)

F POWER LED ASSY (A-A9:7028065358060-IL) (A-A6:7028065358010-IL)



G VR ASSY (A-A9:7028065359060-IL) (A-A6:7028065359010-IL)

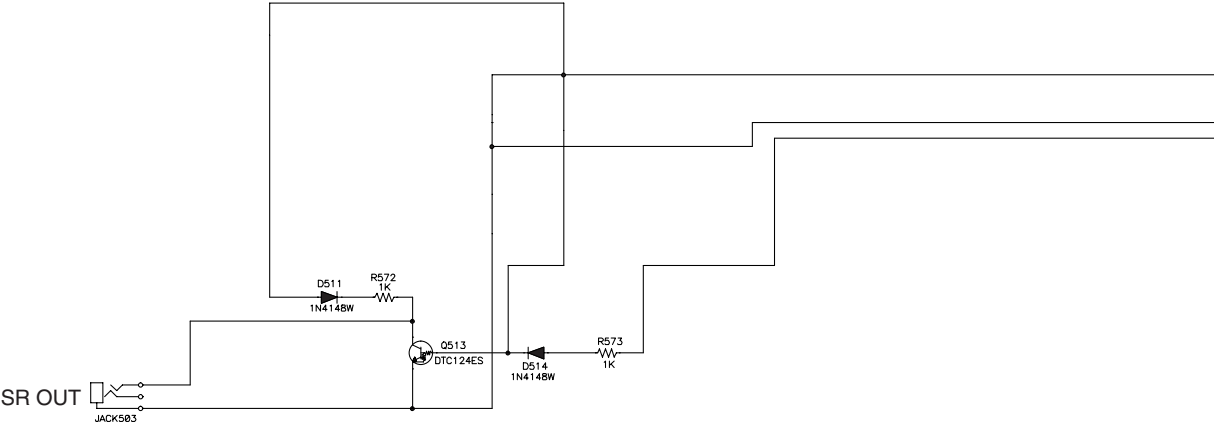
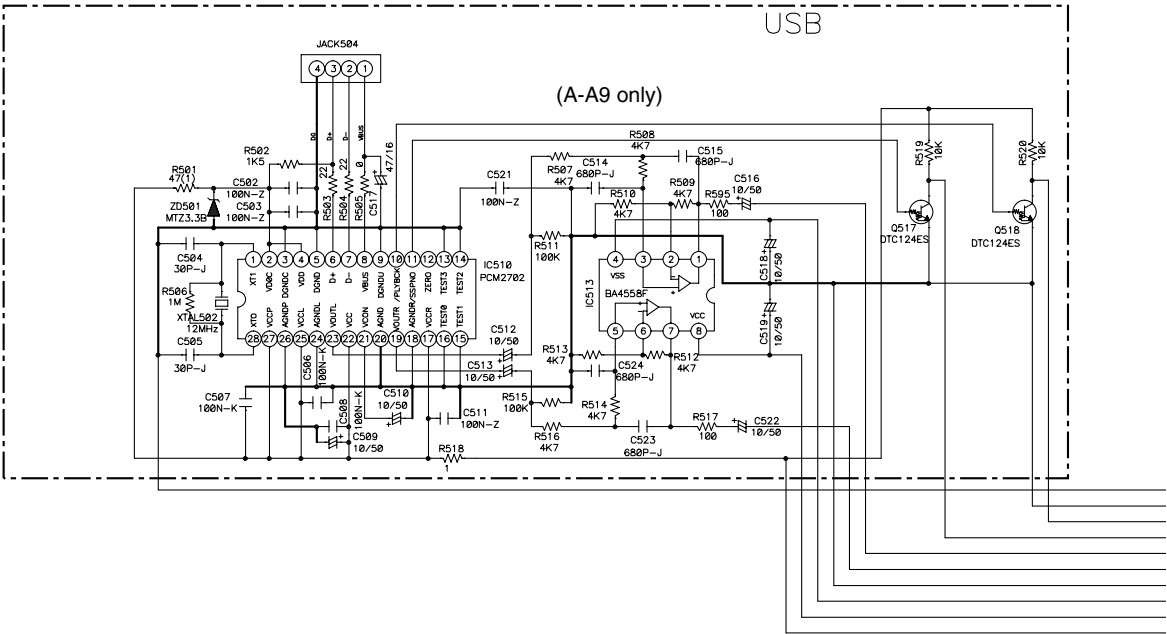
➔: AUDIO SIGNAL ROUTE (L ch)



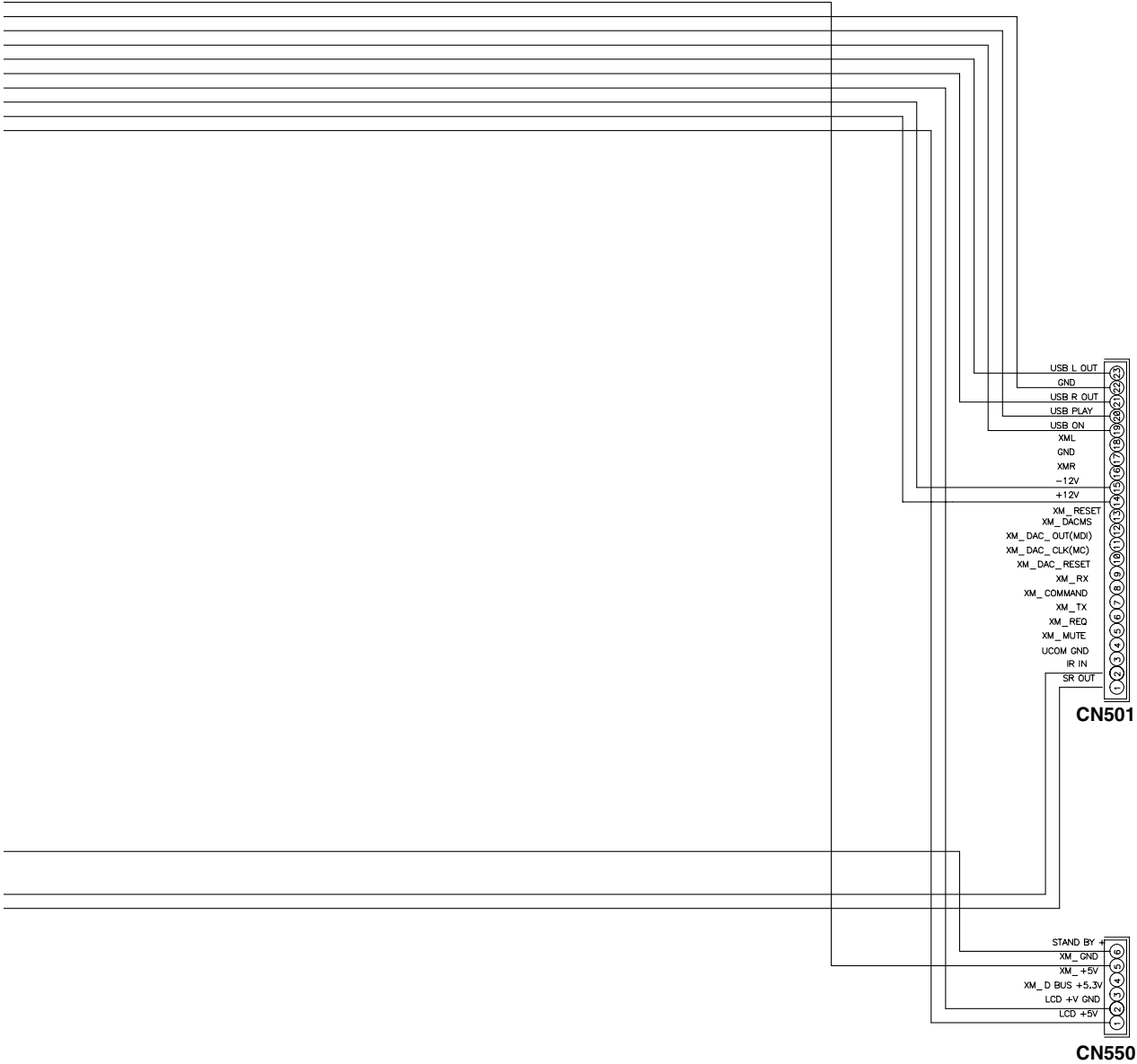
1 2 3 4

3.5 XM-READY/USB ASSY

H XM-READY/USB ASSY (A-A9:7028065362060-IL)
(A-A6:7028065362010-IL)



SCHEMATIC DIAGRAM	PCB PARTS LIST
BKT501	501
BKT502	502
JACK503	JA503
JACK504	JA504
XTAL502	X502
ZD501	D501
GND502	502
GND503	503



A CN102

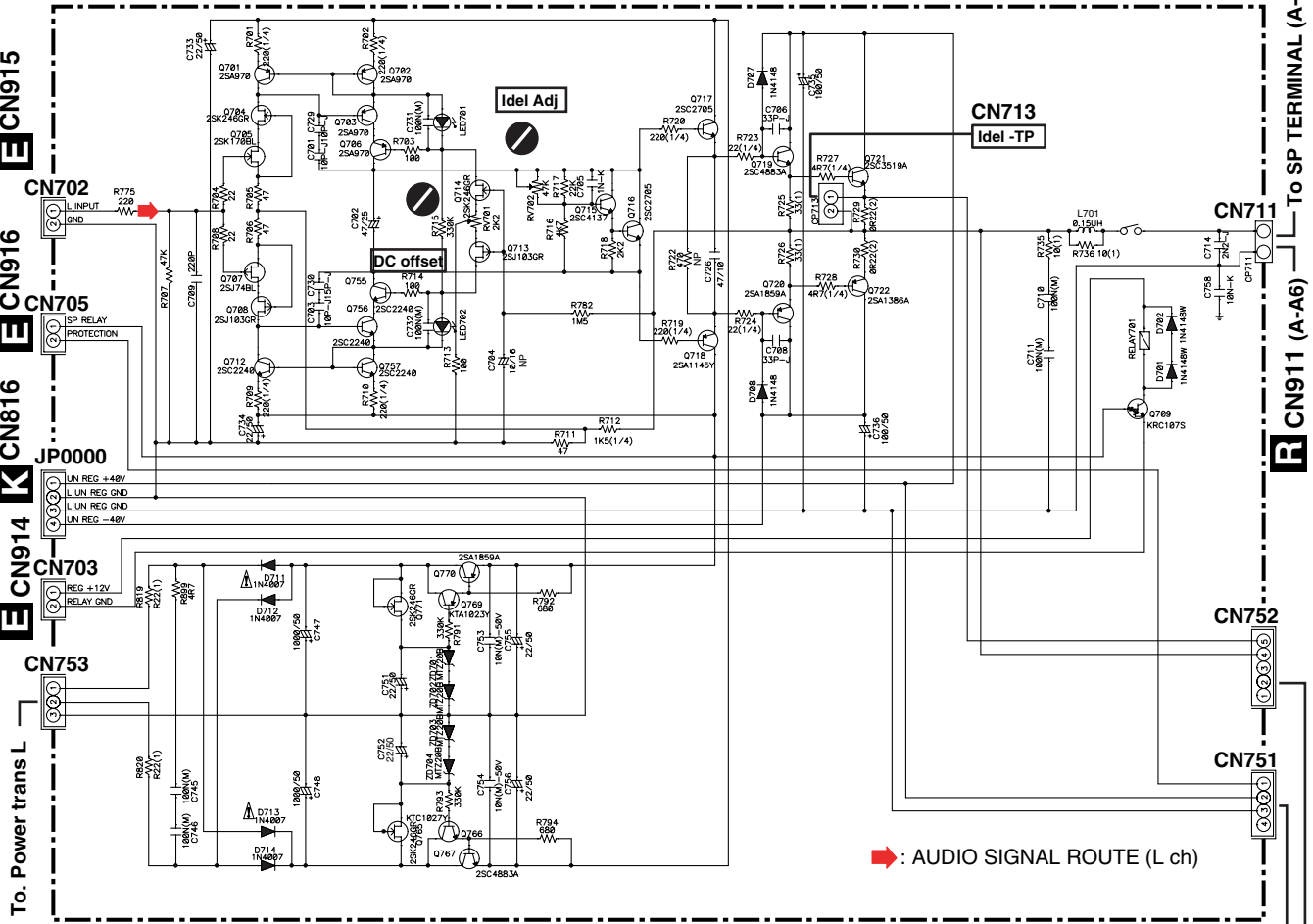
CN501

K CN815

CN550

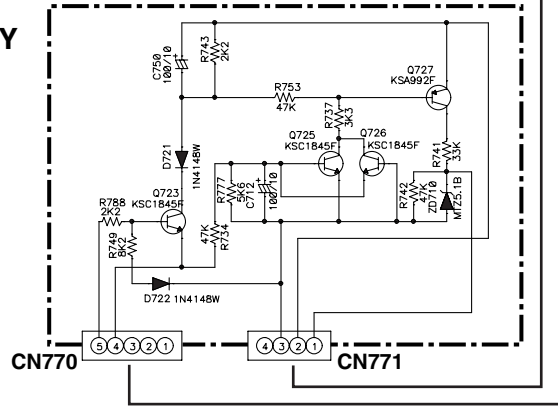
3.6 AMP LCH, AMP RCH, PROTECTION L-CH and PROTECTION R-CH ASSYS

AMP L CH ASSY (7028065351010-IL)

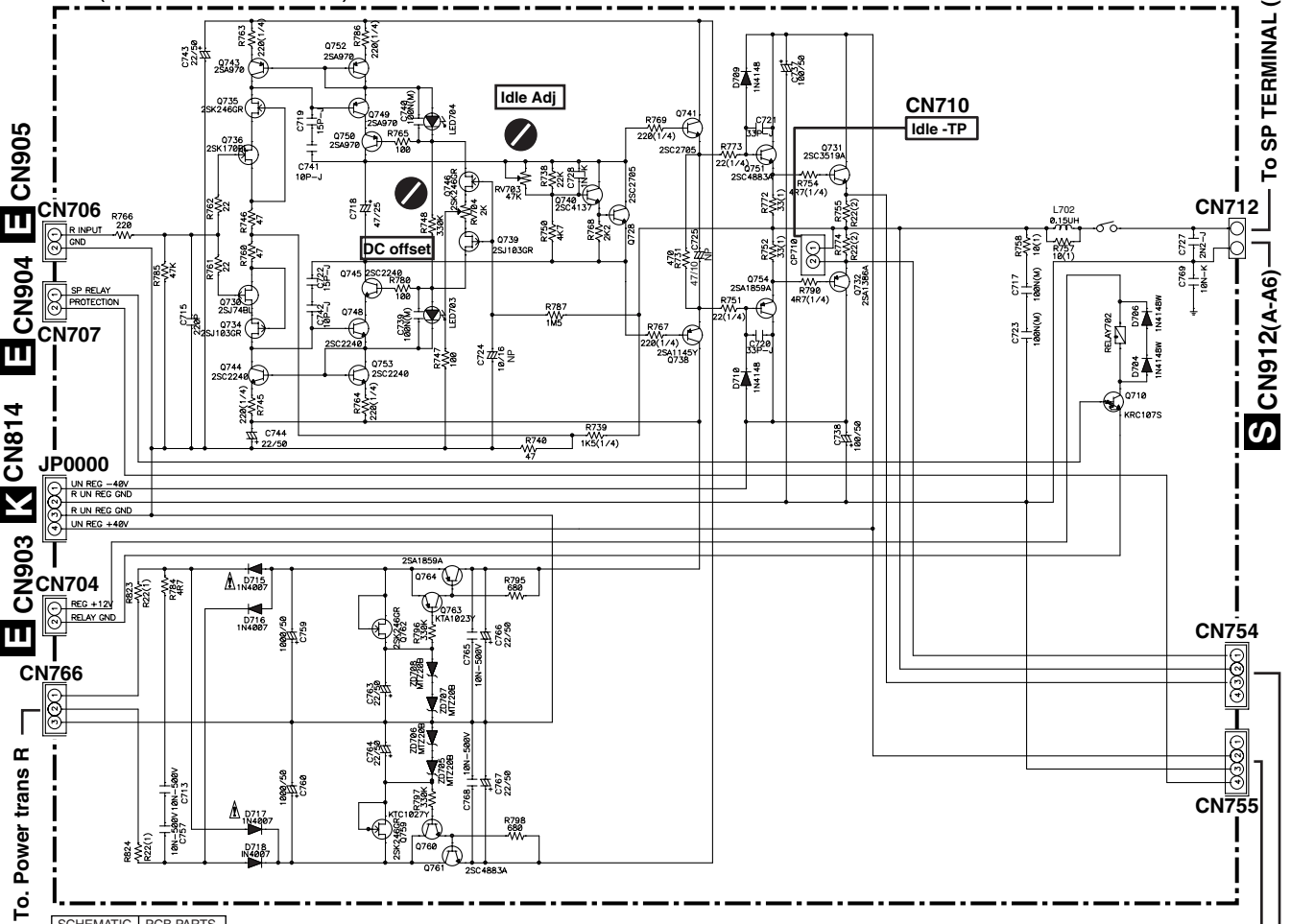


SCHEMATIC DIAGRAM	PCB PARTS LIST
RV701	VR701
RV702	VR702
RELAY701	RY701
ZD701	D9701
ZD702	D9702
ZD703	D9703
ZD704	D9704
LED701	D8701
LED702	D8702
ZD707	D707
ZD708	D708

PROTECTION L-CH ASSY (7028065363010-IL)

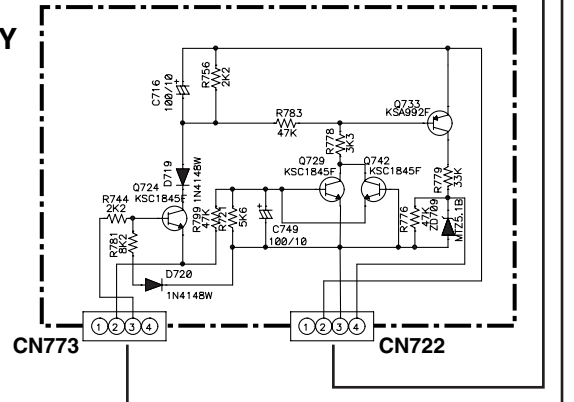


J AMP R CH ASSY (7028065352010-IL)



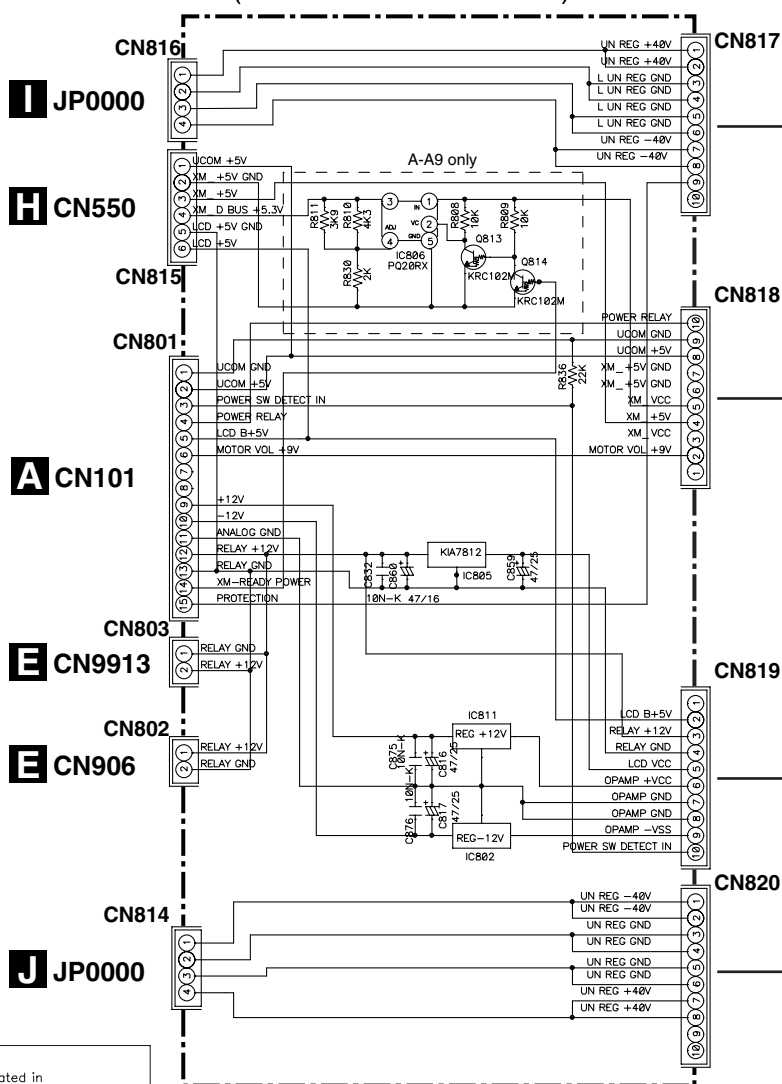
SCHEMATIC DIAGRAM	PCB PARTS LIST
RELAY702	RY702
RV703	VR703
RV704	VR704
ZD706	D706
LED703	D703
ZD705	D705
J716	R9716
J718	R9718
J719	R9719
J720	R9720
J721	R9721
J722	R9722
J729	R9729
J730	R9730
J732	R9732
J735	R9735
J739	R9739
J751	R9751
J752	R9752
J754	R9754
J755	R9755
J756	R9756
J757	R9757
J758	R9758
J759	R9759
J760	R9760

Q PROTECTION R-CH ASSY (7028065364010-IL)



3.7 REG IC, SUB TRANS, POWER SW and POWER ASSYS

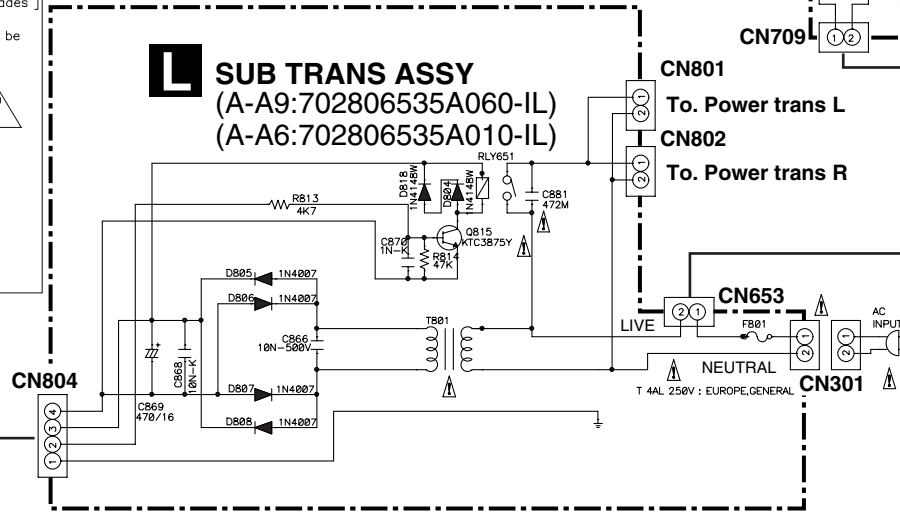
K REG IC ASSY (A-A9:7028065471020-IL) (A-A6:7028065471010-IL)



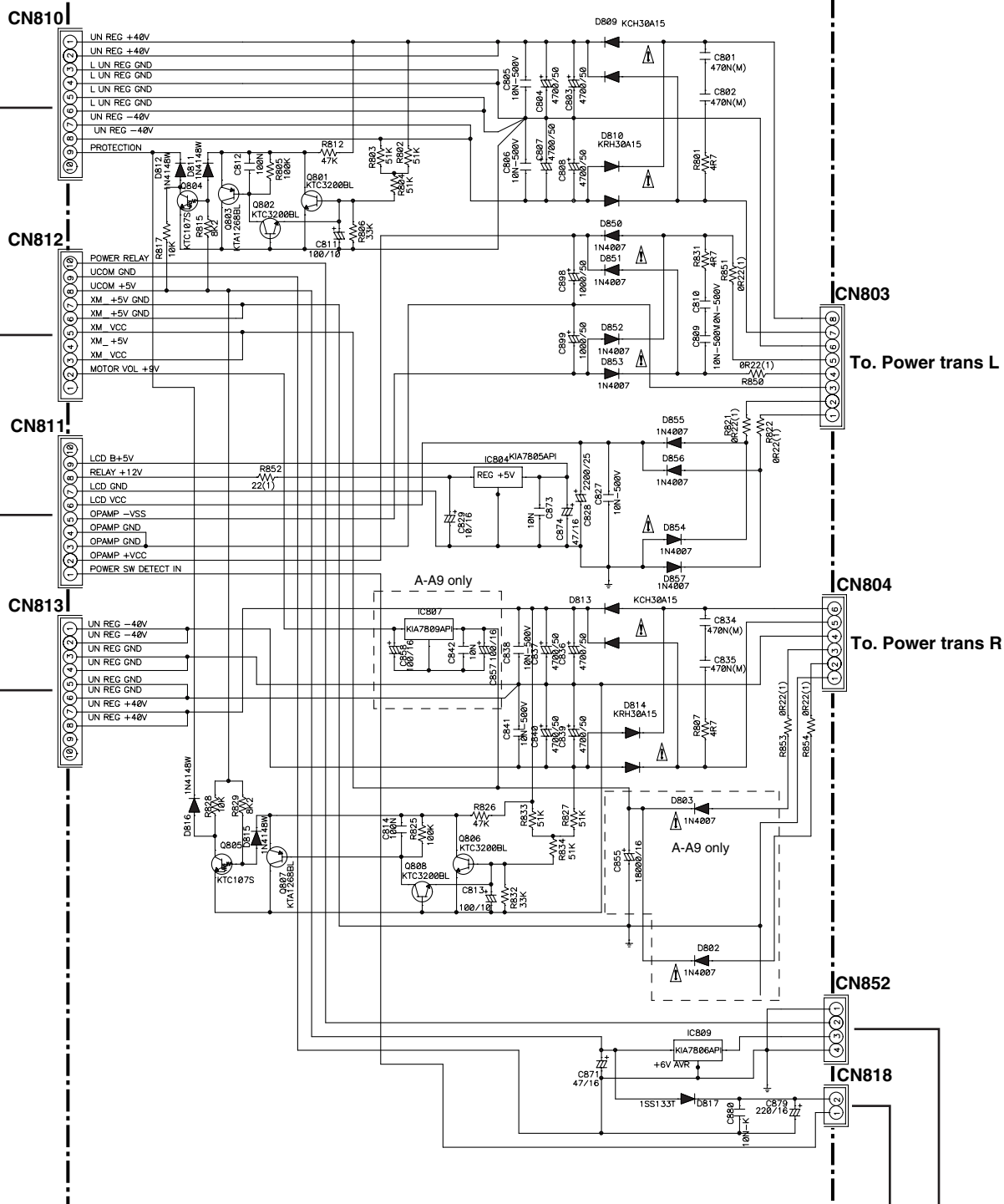
- NOTES
1. Resistor values are indicated in ohms unless otherwise specified
[k = 1.000 m = 1.000.000]
 2. Capacitor values are indicated in microfarads unless otherwise specified.
[p = micro-microfarads]
 3. : These resistor are to be segregated from printed wiring board or other accessible parts.
CAUTION
Safety precaution to be followed during servicing
1] Since those parts marked with are critical parts for safety, use only the one described in the parts list
2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

SCHEMATIC DIAGRAM	PCB PARTS LIST
RLY651	RY651
FU0	FU0
*	0000

L SUB TRANS ASSY (A-A9:702806535A060-IL) (A-A6:702806535A010-IL)



N POWER ASSY (A-A9:7028065353060-IL) (A-A6:7028065353010-IL)



• NOTE FOR FUSE REPLACEMENT

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

SCHEMATIC DIAGRAM	PCB PARTS LIST
J811	R811
J812	R812
J866	R866
J867	R867

1234

4. PCB CONNECTION DIAGRAM

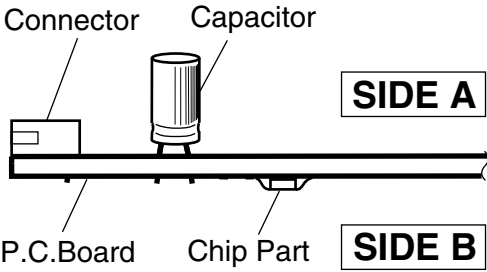
NOTE FOR PCB DIAGRAMS :

- A
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

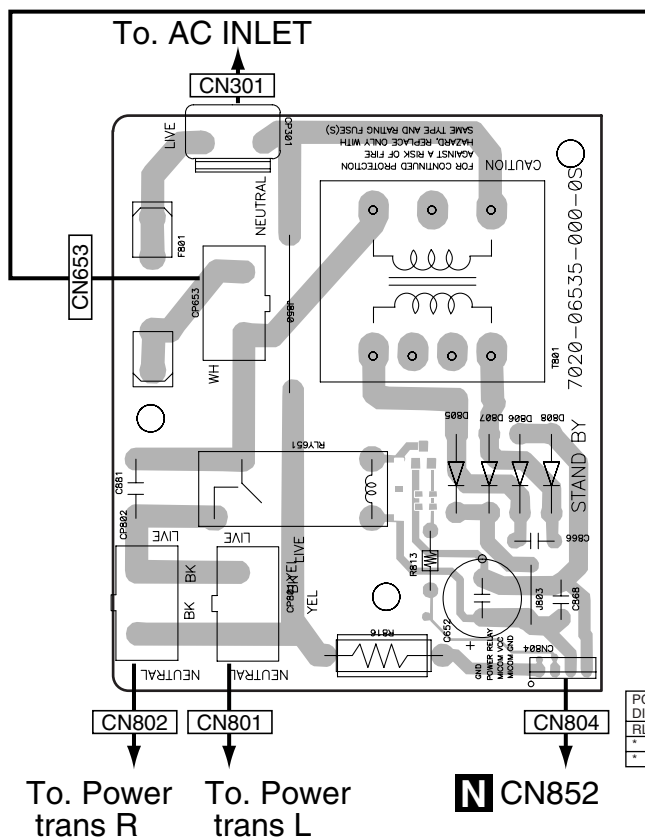
3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



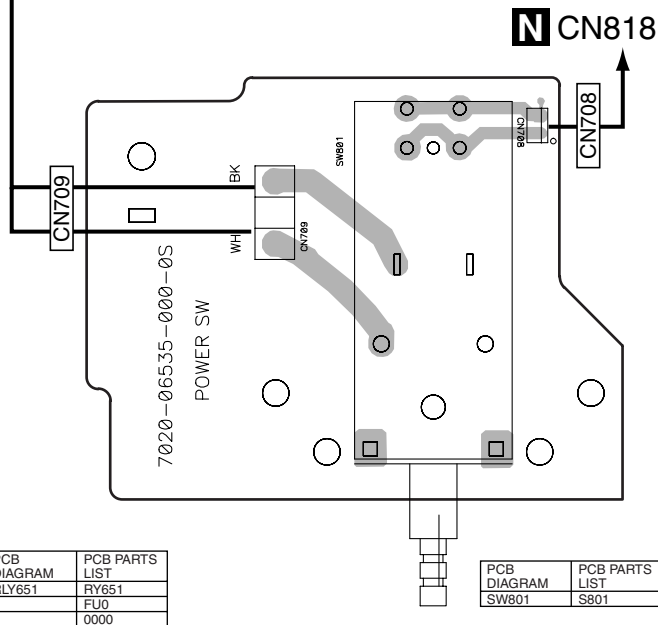
4.1 SUB TRANS and POWER SW ASSYS

SIDE A

L SUB TRANS ASSY



M POWER SW ASSY

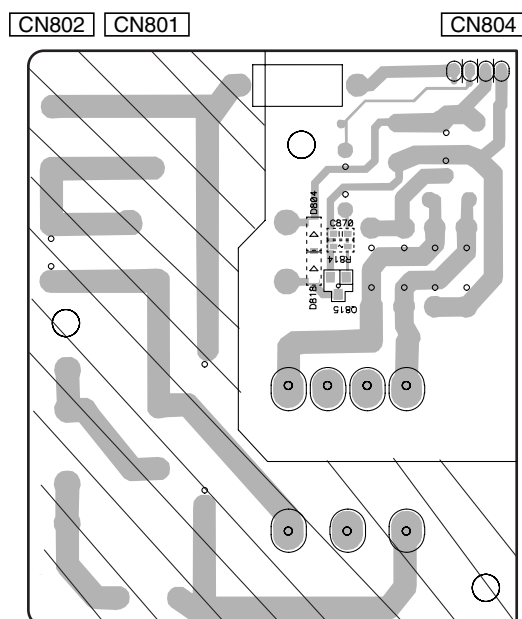


PCB DIAGRAM	PCB PARTS LIST
RLY651	RY651
*	FU0
*	0000

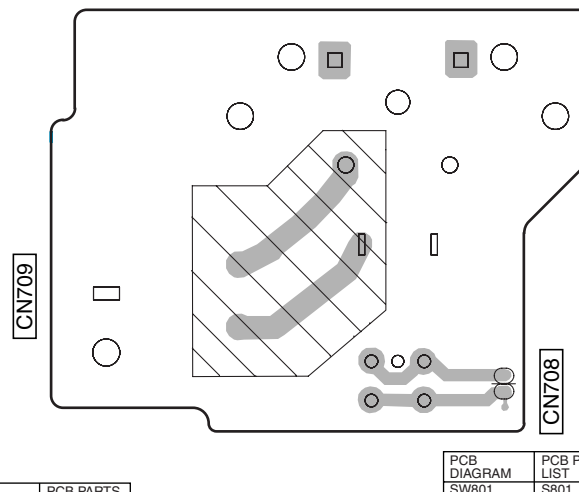
PCB DIAGRAM	PCB PARTS LIST
SW801	S801

SIDE B

L SUB TRANS ASSY



M POWER SW ASSY



PCB DIAGRAM	PCB PARTS LIST
RLY651	RY651
*	FU0
*	0000

PCB DIAGRAM	PCB PARTS LIST
SW801	S801

L M

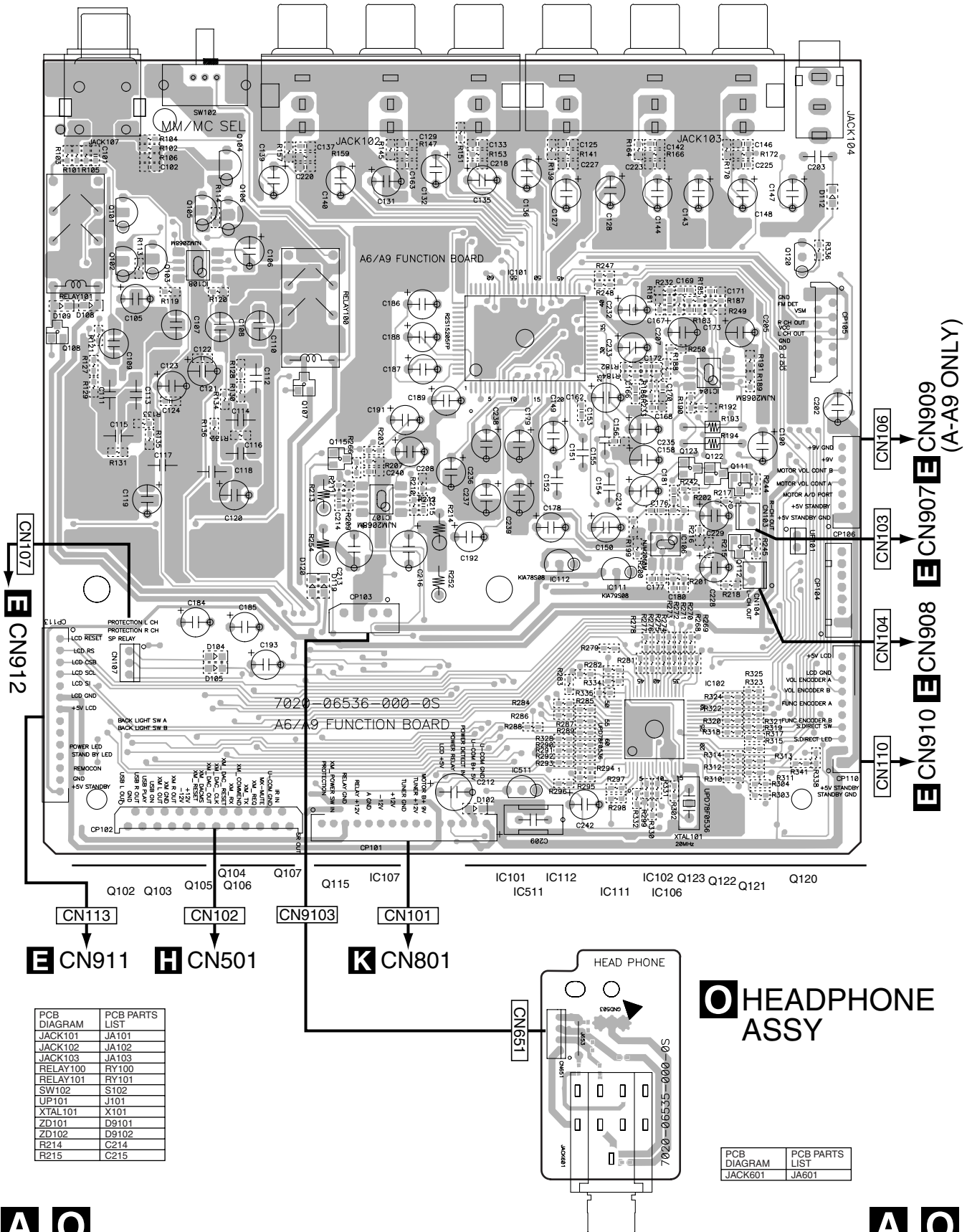
L M

4.2 FANCTION and HEADPHONE ASSYS

SIDE A

SIDE A

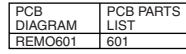
A FUNCTION ASSY



4

SIDE A

D REMOCON
ASSY

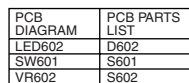


PCB DIAGRAM	PCB PARTS LIST
LED603	D603

E

**E** CN9915

A-A6 only

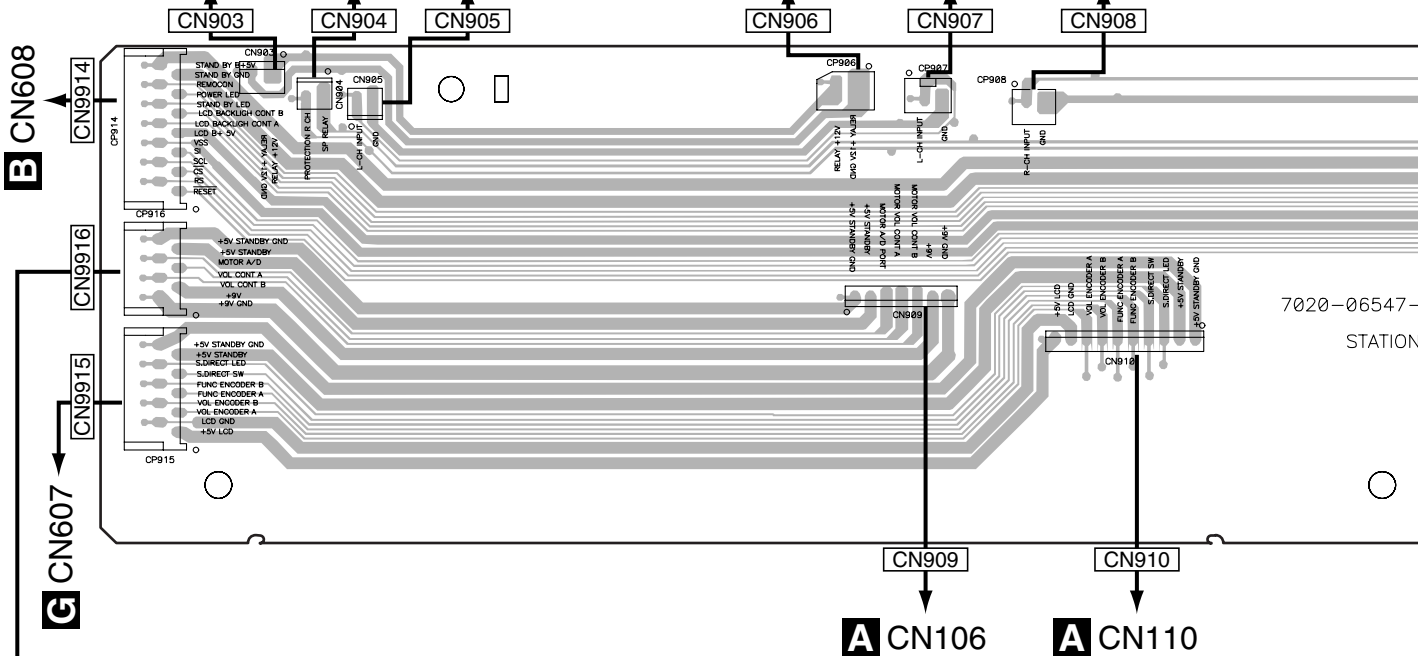


B D F G

4.4 STATION and MOTOR VR ASSYS

SIDE A E STATION ASSY

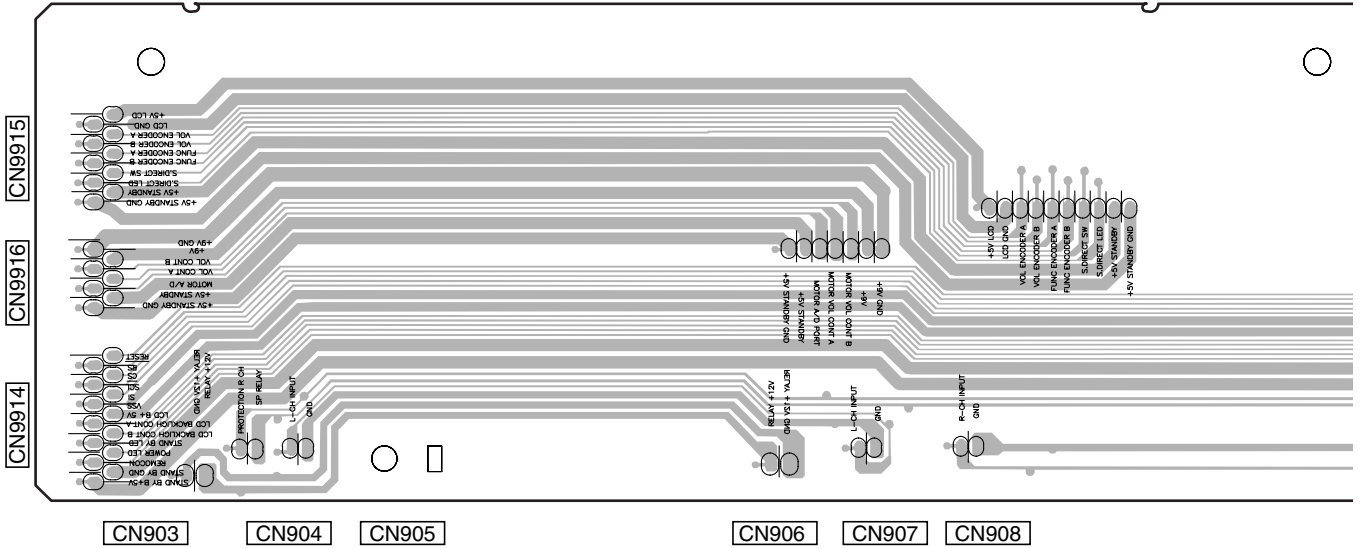
J CN704 J CN707 J CN706 K CN802 A CN103 A CN104



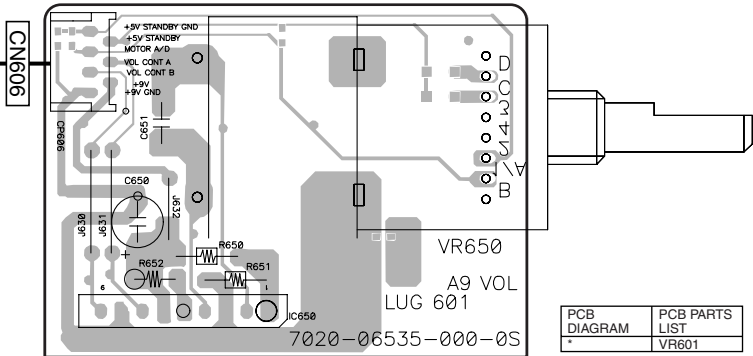
7020-06547-
STATION

SIDE B E STATION ASSY

CN909 CN910



SIDE A C MOTOR VR ASSY (A-A9 Only)



PCB DIAGRAM	PCB PARTS LIST
	VR601

A-A9-J

4

SIDE A

CN501

A CN102

PCB DIAGRAM	PCB PARTS LIST
BKT501	501
BKT502	502
JACK503	JA503
JACK504	JA504
XTAL502	X502
ZD501	D501
GND502	502
GND503	503

4.6 AMP LCH, PROTECTION L-CH and SPEAKER L-CH ASSY

SIDE A

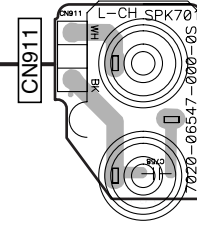
SIDE A

PCB DIAGRAM	PCB PARTS LIST
RV701	VR701
RV702	VR702
RELAY701	RY701
ZD701	D9701
ZD702	D9702
ZD703	D9703
ZD704	D9704
LED701	D8701
LED702	D8702
ZD707	D707
ZD708	D708

AMP LCH ASSY

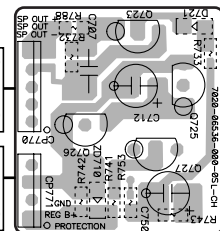
SPEAKER L-CH ASSY

A-A6 only



A-A9 only
To.
Speaker terminal
L OUT

PROTECTION L-CH ASSY



To. Power trans L

E CN916
E CN915
E CN914

A-A9-J

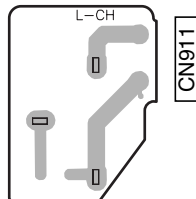
I P R

I P R

SIDE B

SIDE B

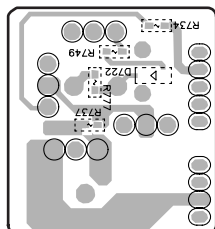
R SPEAKER L-CH ASSY
A-A6 only



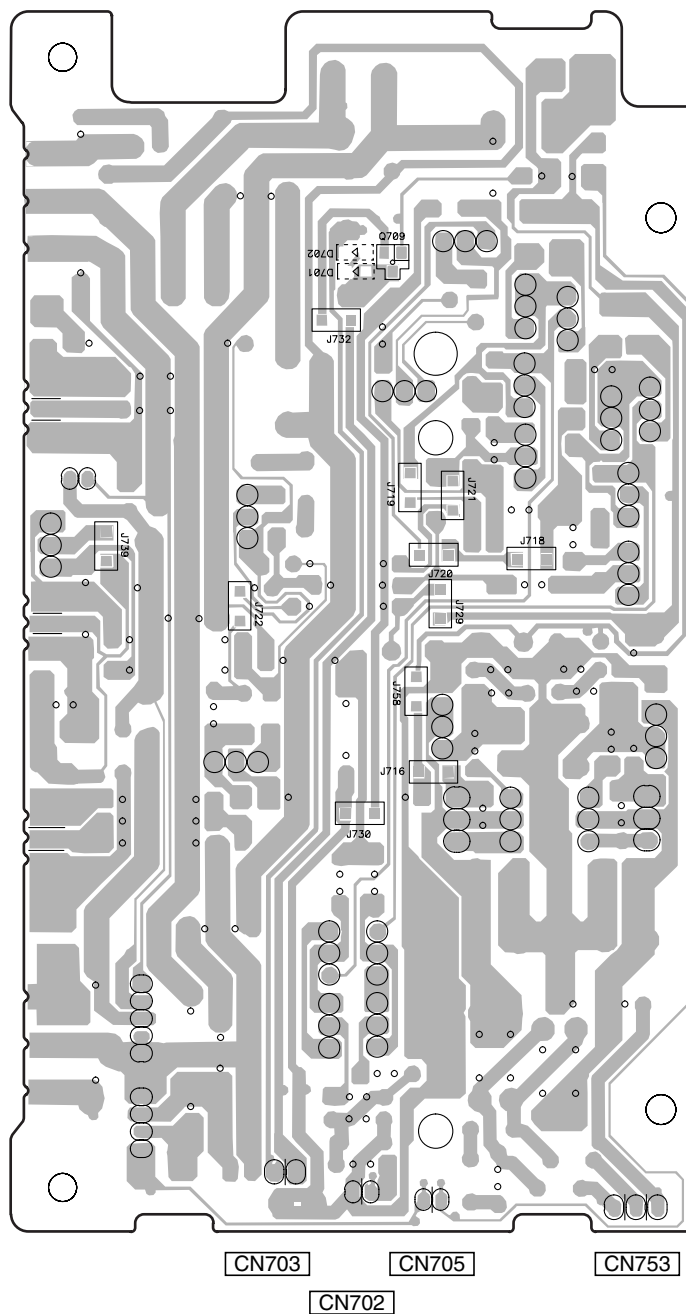
I AMP LCH ASSY

PCB DIAGRAM	PCB PARTS LIST
RV701	VR701
RV702	VR702
RELAY701	RY701
ZD701	D9701
ZD702	D9702
ZD703	D9703
ZD704	D9704
LED701	D8701
LED702	D8702
ZD707	D707
ZD708	D708

P PROTECTION L-CH ASSY



CN771 CN770
CN751 CN752



I P R

I P R

A-A9-J

4.7 AMP RCH, PROTECTION R-CH and SPEAKER R-CH ASSY

SIDE A

SIDE A

S SPEAKER R-CH ASSY

A-A6 only

J AMP RCH ASSY

PCB DIAGRAM	PCB PARTS LIST
RELAY702	RY702
RV703	VR703
RV704	VR704
ZD706	D706
LED703	D703
ZD705	D705
J716	R9716
J718	R9718
J719	R9719
J720	R9720
J721	R9721
J722	R9722
J729	R9729
J730	R9730
J732	R9732
J735	R9735
J739	R9739
J751	R9751
J752	R9752
J754	R9754
J755	R9755
J756	R9756
J757	R9757
J758	R9758
J759	R9759
J760	R9760

A-A9 only

To.
Speaker terminal
R OUT

Q PROTECTION R-CH ASSY

E CN903

E CN904

To. Power trans R

E CN905

J Q S

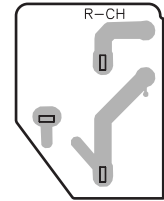
SIDE B

SIDE B

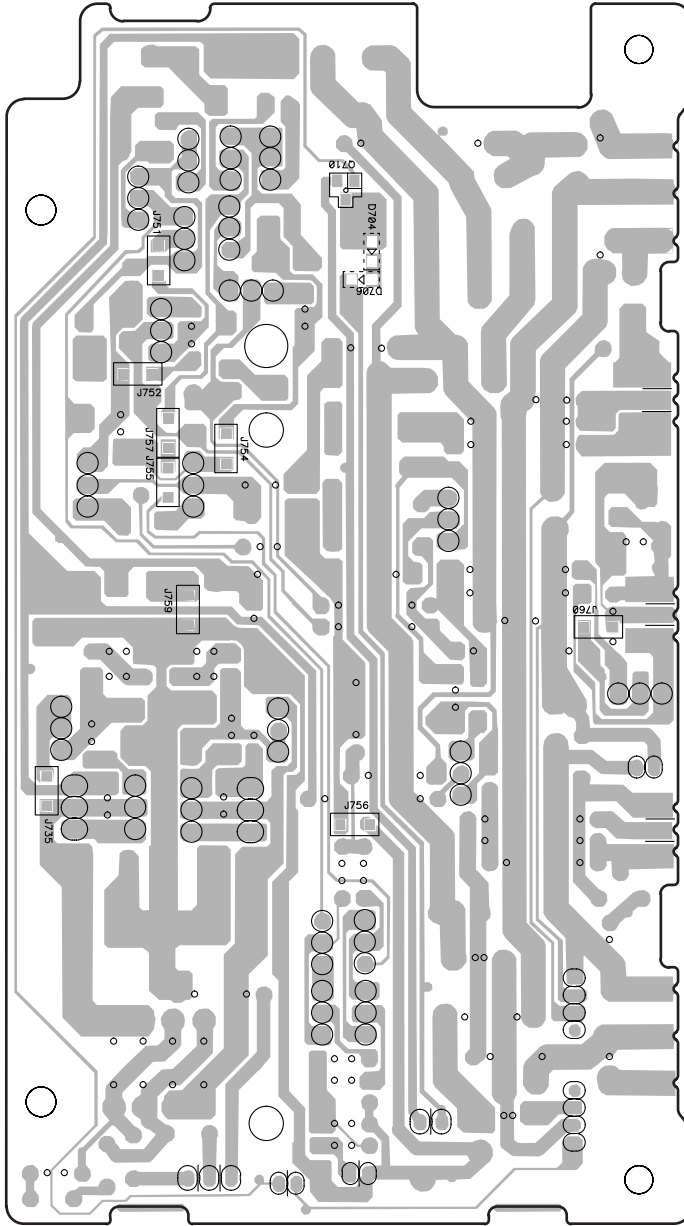
J AMP RCH ASSY

S SPEAKER R-CH ASSY

A-A6 only

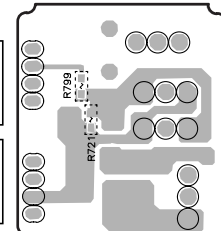


CN912



PCB DIAGRAM	PCB PARTS LIST
RELAY702	RY702
RV703	VR703
RV704	VR704
ZD706	D706
LED703	D703
ZD705	D705
J716	R9716
J718	R9718
J719	R9719
J720	R9720
J721	R9721
J722	R9722
J729	R9729
J730	R9730
J732	R9732
J735	R9735
J739	R9739
J751	R9751
J752	R9752
J754	R9754
J755	R9755
J756	R9756
J757	R9757
J758	R9758
J759	R9759
J760	R9760

Q PROTECTION
R-CH ASSY



CN754

CN755

CN772

CN773

CN766

CN707

CN704

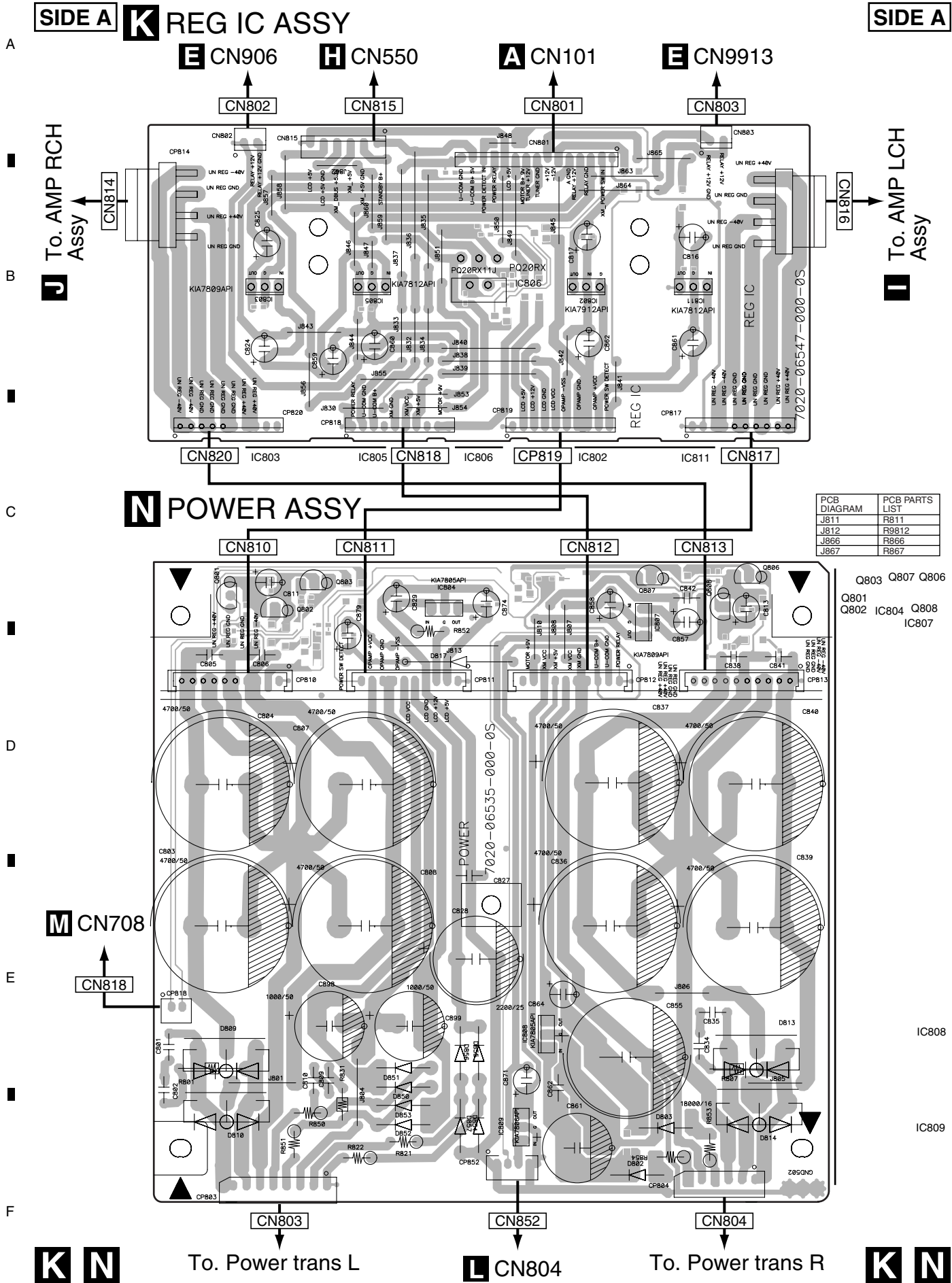
CN706

J Q S

J Q S

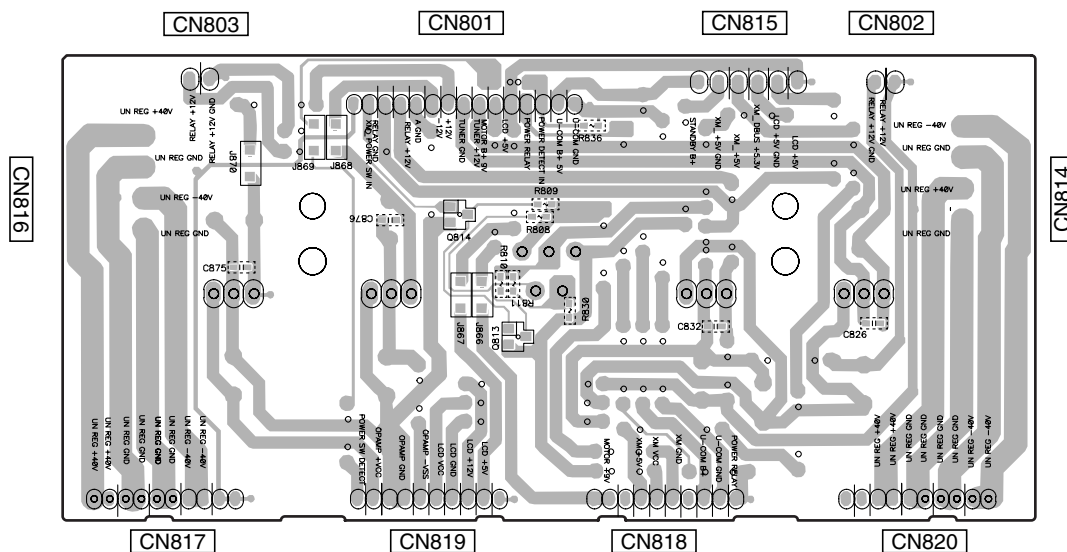
A-A9-J

4.8 REG IC and POWER ASSYS

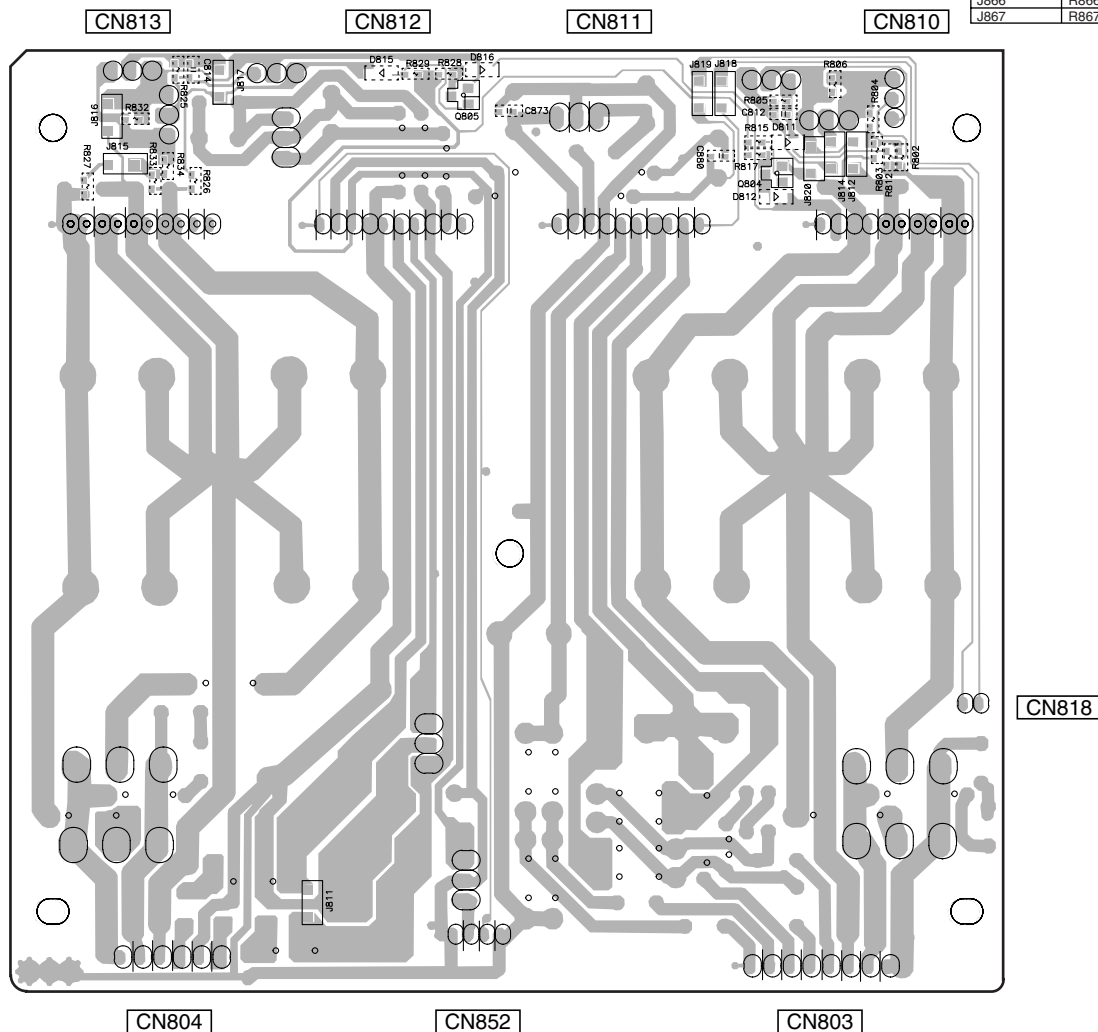


SIDE B**SIDE B**

K REG IC ASSY



N POWER ASSY



PCB DIAGRAM	PCB PARTS LIST
J811	R811
J812	R9812
J866	R866
J867	R867

K N

K N

1234

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

LIST OF ASSEMBLIES

Mark	Symbol and Description	A-A9-J	A-A6-J
NSP	1..PCB TOTAL ASSY	7025HA0604010-IL	7025HA0603010-IL
	2.SUB TRANS ASSY	702806535A060-IL	702806535A010-IL
	2.HEADPHONE ASSY	702806535B060-IL	702806535B060-IL
	2.AMP LCH ASSY	7028065351010-IL	7028065351010-IL
	2.AMP RCH ASSY	7028065352010-IL	7028065352010-IL
	2.POWER ASSY	7028065353060-IL	7028065353010-IL
	2.FRONT ASSY	7028065354060-IL	7028065354010-IL
	2.MOTOR VR ASSY	7028065355060-IL	Not used
	2.REMOCON ASSY	7028065356060-IL	7028065356010-IL
	2.POWER SW ASSY	7028065357060-IL	7028065357010-IL
	2.POWER LED ASSY	7028065358060-IL	7028065358010-IL
	2.VR ASSY	7028065359060-IL	7028065359010-IL
NSP	1..PCB TOTAL ASSY	7025HA0604011-IL	7025HA0603011-IL
	2.FUNCTION ASSY	7028065361060-IL	7028065361010-IL
	2.XM-READY/USB ASSY	7028065362060-IL	7028065362010-IL
	2.PROTECTION L-CH ASSY	7028065363010-IL	7028065363010-IL
	2.PROTECTION R-CH ASSY	7028065364010-IL	7028065364010-IL
NSP	1..PCB TOTAL ASSY	7025HA0604012-IL	7025HA0603012-IL
	2.STATION ASSY	7028065461020-IL	7028065461010-IL
	2.SPEAKER L-CH ASSY	Not used	7028065462010-IL
	2.SPEAKER R-CH ASSY	Not used	7028065463010-IL
	2.REG IC ASSY	7028065471020-IL	7028065471010-IL

CONTRAST OF PCB ASSEMBLIES

FRONT ASSY

7028065354060-IL and 7028065354010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065354060-IL	7028065354010-IL
	Q601, Q603, Q604, Q607, Q611 STOPPER	D010221167160-IL 4380210081000-IL	J522107S00210-IL Not used

REMOCON ASSY

7028065356060-IL and 7028065356010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065356060-IL	7028065356010-IL
	C116 C605	D040100083130-IL Not used	Not used D040100083130-IL

STATION ASSY

7028065461020-IL and 7028065461010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065461020-IL	7028065461010-IL
	CN909 CN9916	L000141070010-IL L131100700010-IL	Not used Not used

F POWER LED ASSY

7028065358060-IL and 7028065358010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065358060-IL	7028065358010-IL
	C653, C654 R610	Not used Not used	D000221167070-IL RS1/16S561J

G VR ASSY

7028065359060-IL and 7028065359010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065359060-IL	7028065359010-IL
	C601, C602 R601, R602 R603, R604 VR601	Not used Not used Not used Not used	D011103777163-IL RS1/16S103J RS1/16S101J G121162401200-IL

K REG IC ASSY

7028065471020-IL and 7028065471010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065471020-IL	7028065471010-IL
	IC806 Q813, Q814 R808, R809 R810 R811 R830	J126201100020-IL J522010200210-IL RS1/16S103J RS1/16S432J RS1/16S392J RS1/16S202J	Not used Not used Not used Not used Not used Not used

L SUB TRANS ASSY

Although 702806535A060-IL and 702806535A010-IL are different in part number, they have the same components.

N POWER ASSY

7028065353060-IL and 7028065353010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065353060-IL	7028065353010-IL
	IC807 C842, C862 C855 C857, C858 R811	J126780900020-IL D00410359D050-IL D040183083001-IL D040101083070-IL RS1/8S0R0J	Not used Not used Not used Not used Not used

PCB PARTS LIST FOR A-A9-J UNLESS OTHER WISE NOTED

Mark No.	Description	Part No.	Mark No.	Description	Part No.
			Q0101, Q0102, Q0104, Q0105		J5410369G0010-IL
			D0101-D0111, D0115-D0120 D9101, D9102		K005041480020-IL K06605R14P400-IL
A	FUNCTION ASSY (A-A9-J)		SWITCHES AND RELAYS		
	SEMICONDUCTORS		S0102 SW,SLIDE RY0100, RY0101 RELAY		G060112011010-IL G680240202030-IL
	IC0109	J000240640010-IL	CAPACITORS		
	IC0102	J020780536000-IL	C0113, C0114		D004122287050-IL
	IC0101	J084152050010-IL	C0117, C0118		D004472277050-IL
	IC0104-IC0108	J121206800020-IL	C0214, C0215		D010101167160-IL
	IC0511	J125704200010-IL	C0101, C0102, C0125, C0126		D010221167160-IL
	IC0112	J126780800190-IL	C0129, C0130, C0133, C0134		D010221167160-IL
	IC0111	J126790800090-IL	C0137, C0138, C0142, C0145, C0146		D010221167160-IL
	Q0103, Q0106	J5021845F0000-IL	C0163, C0182, C0183, C0217-C0221		D010221167160-IL
	Q0122	J520010100010-IL	C0223-C0227, C0240, C0241, C1421		D010221167160-IL
	Q0115	J520010200210-IL	C2231		D010221167160-IL
	Q0128	J520015040150-IL			
	Q0121	J522038750210-IL			
	Q0107, Q0108, Q0116, Q0123	J522107S00210-IL			
	Q0111, Q0112, Q0124-Q0127	J5222875B0010-IL			

Mark No. Description**Part No.****Mark No. Description****Part No.**

C0159, C0160, C0176, C0177

D010331167160-IL

Q0103, Q0106

J5021845F0000-IL

C0180, C0181

D010820167160-IL

Q0122
Q0115J520010100010-IL
J520010200210-IL

C0122, C0124, C0157, C0161

D011103777160-IL

C0166, C0167, C0210, C0211

D011103777160-IL

Q0128

J520015040150-IL

C0168, C0169, C0199, C0200

D011104577161-IL

Q0121

J522038750210-IL

C0103, C0104

D011153777160-IL

Q0116, Q0123

J522107S00210-IL

C0153, C0156, C0198, C0201

D011223777160-IL

Q0111, Q0112, Q0124-Q0127

J5222875B0010-IL

C0152, C0154

D020154078050-IL

Q0101, Q0102, Q0104, Q0105

J5410369G0010-IL

C0115, C0116

D020183078060-IL

D0101-D0105, D0110, D0111

K005041480020-IL

C0151, C0155

D020473167050-IL

D0115-D0120

K005041480020-IL

C0111, C0112

D020683167060-IL

D9101, D9102

K06605R14P400-IL

C0193

D040010087150-IL

CAPACITORS

C0208

D0400R1087050-IL

C0113, C0114

D004122287050-IL

C0119-C0121, C0123, C0149, C0150

D040100087070-IL

C0117, C0118

D004472277050-IL

C0178, C0186-C0189, C0191, C0192

D040100087070-IL

C0214, C0215

D010101167160-IL

C0205, C0207, C0228, C0229

D040100087070-IL

C0101, C0102, C0125, C0126

D010221167160-IL

C0232-C0235

D040100087070-IL

C0129, C0130, C0133, C0134

D010221167160-IL

C0109, C0110

D040101082090-IL

C0137, C0138, C0142, C0163

D010221167160-IL

C0107, C0108, C0127, C0128

D040220083070-IL

C0182, C0183, C0217-C0221, C0223

D010221167160-IL

C0131, C0132, C0135, C0136

D040220083070-IL

C0226, C0227, C0240, C0241, C1421

D010221167160-IL

C0139, C0140, C0144, C0147, C0148

D040220083070-IL

C2231

D010221167160-IL

C1441

D040220083070-IL

C0159, C0160, C0176, C0177

D010331167160-IL

C0212

D040221081060-IL

C0180, C0181

D010820167160-IL

C0213, C0216

D040221082090-IL

C0122, C0124, C0157, C0161

D011103777160-IL

C0190, C0242

D0402R2087160-IL

C0166, C0167, C0210, C0211

D011103777160-IL

C0105, C0106

D040470082060-IL

C0199, C0200

D011104577161-IL

C0158, C0162, C0179, C0236-C0239

D040470083080-IL

C0103, C0104

D011153777160-IL

C0209

D090473904010-IL

C0153, C0156, C0198, C0201

D011223777160-IL

RESISTORS

R0193, R0194

C00001046P520-IL

R0213, R0214

C060022065050-IL

R0252, R0253

C060033065050-IL

Other Resistors

RS1/16S###J

C0115, C0116

D020183078060-IL

C0151, C0155

D020473167050-IL

C0111, C0112

D020683167060-IL

C0193

D040010087150-IL

C0208

D0400R1087050-IL

C0119-C0121, C0123, C0149, C0150

D040100087070-IL

C0178, C0186-C0189, C0191, C0192

D040100087070-IL

C0228, C0229

D040100087070-IL

C0109, C0110

D040101082090-IL

C0107, C0108, C0127, C0128

D040220083070-IL

C0131, C0132, C0135, C0136

D040220083070-IL

C0139, C0140, C0144, C1441

D040220083070-IL

C0212

D040221081060-IL

C0213, C0216

D040221082090-IL

C0190, C0242

D0402R2087160-IL

C0105, C0106

D040470082060-IL

C0158, C0162, C0179, C0236-C0239

D040470083080-IL

C0209

D090473904010-IL

RESISTORS

R0193, R0194

C00001046P520-IL

R0213, R0214

C060022065050-IL

R0252, R0253

C060033065050-IL

Other Resistors

RS1/16S###J

OTHERS

X0101 RESONATOR,CERAMIC

E830200010010-IL

JA0101 TER,RCA 2PIN

G601207BG020Y-IL

JA0103 TER,RCA 4PIN

G602617AG020Y-IL

JA0102 TER,RCA 6PIN

G603617AG04GY-IL

CN0107 CN,WIRE

L000141030100-IL

CN0104 CN,WIRE

L000161020070-IL

A FUNCTION ASSY (A-A6-J)**SEMICONDUCTORS**

IC0109

J000240640010-IL

IC0102

J020780536000-IL

IC0101

J084152050010-IL

IC0106-IC0108

J121206800020-IL

IC0511

J125704200010-IL

IC0112

J126780800190-IL

IC0111

J126790800090-IL

5	6
Mark No.	Description
CN0103	CN,WIRE
CN0110	CONNECTOR(10P)
CN0101, CN0113	CN.WAFER 2.0MM
CN9104	CN.WAFER 2.0MM
CN9103	CN.WAFER 2.5MM
CN0102	CN.FPC 1.25MM
J0101	PIN JUMPER
Part No.	
L000161020080-IL	
L101220100000-IL	
L101220140000-IL	
L101530140710-IL	
L102526700400-IL	
L131112300010-IL	
L424000040000-IL	

B FRONT ASSY SEMICONDUCTORS

Q0603, Q0604, Q0607, Q0611
Q0605, Q0606, Q0608
D0515-D0517
D0601
D0604-D0606

D010221167160-IL
J522038750210-IL
K005016000010-IL
K500032101061-IL
K500059000010-IL

CAPACITORS

C0609, C0611-C0614, Q0601
C0615
C0608
C0607

D010221167160-IL
D010561167160-IL
D011103777163-IL
D040100083050-IL

RESISTORS

R9656, R9658, R9812
Other Resistors

RS1/8S0R0J
RS1/16S###J

OTHERS

V0601 LCD MODULE
CN0681 CN.WAFER 2.0MM
CN0680 CONNECTOR(3P)
CN0608 CONNECTOR
0000 SHEET

AAV7111
L101220020000-IL
L101220030000-IL
L131101400010-IL
1210210382000-IL

0000 HOUSING
0000 HOUSING
0000 COVER
0000 COVER
0000 STOPPER

3050210051000-IL
4310212951000-IL
4310212961000-IL
4380210081000-IL
5070212313000-IL

C MOTOR VR ASSY(A-A9-J Only) SEMICONDUCTORS

IC0650

J127695600010-IL

CAPACITORS

C0651
C0617-C0619
C0650

D006104597050-IL
D011103777163-IL
D040101083070-IL

RESISTORS

R0650, R0651
R0652
R0659, R0660
VR0601 VR,ROTARY MOTOR
Other Resistors

C00001036P520-IL
C0602R2063050-IL
RS1/8S0R0J
C495121400350-IL
RS1/16S###J

OTHERS

CN0606 CN.FPC 1.25MM

L131100700010-IL

D REMOCON ASSY CAPACITORS

C0610
C0116

D011103777160-IL
D040100083130-IL

7	8
Mark No.	Description
RESISTORS	
All Resistors	
OTHERS	
0601	MODULE REMOCON
CN0680	CN,WIRE
STATION ASSY	
OTHERS	
CN0910	CN,WIRE
CN0913	CN,WIRE
CN0909	CN,WIRE
CN0905	CN,WIRE
CN0915	CN,WIRE
CN0903, CN0914	CN,WIRE
CN0904, CN0916	CN,WIRE
CN0908	CN.WAFER 2.0MM
CN0912	CONNECTOR(3P)
CN0907	N.WAFER 2.0MM
CN0906, CN9913	CONNECTOR(2P)
CN9916	CN.FPC 1.25MM
CN9915	CN.FPC 1.25MM
CN9914	CONNECTOR
E940633800000-IL	
L000800030110-IL	
L000101100080-IL	
L000101140070-IL	
L000141070010-IL	
L000800020140-IL	
L000800020150-IL	
L000800020160-IL	
L000800020170-IL	
L101220020000-IL	
L101220030000-IL	
L101530140210-IL	
L102526700200-IL	
L131100700010-IL	
L131101000020-IL	
L131101400010-IL	

E STATION ASSY OTHERS

CN0910 CN,WIRE
CN0913 CN,WIRE
CN0909 CN,WIRE
CN0905 CN,WIRE
CN0915 CN,WIRE

L000101100080-IL
L000101140070-IL
L000141070010-IL
L000800020140-IL
L000800020150-IL

CN0903, CN0914 CN,WIRE
CN0904, CN0916 CN,WIRE
CN0908 CN.WAFER 2.0MM
CN0912 CONNECTOR(3P)
CN0907 N.WAFER 2.0MM

L000800020160-IL
L000800020170-IL
L101220020000-IL
L101220030000-IL
L101530140210-IL

CN0906, CN9913 CONNECTOR(2P)
CN9916 CN.FPC 1.25MM
CN9915 CN.FPC 1.25MM
CN9914 CONNECTOR

L102526700200-IL
L131100700010-IL
L131101000020-IL
L131101400010-IL

F POWER LED ASSY SEMICONDUCTORS

D0603

K500036000080-IL

OTHERS

CN0682 CN,WIRE
0000 STOPPER

L000800020170-IL
4380210081000-IL

G VR ASSY SEMICONDUCTORS

Q0602
D0602

J522010200210-IL
K500032101061-IL

SWITCHES AND RELAYS

S0602
S0601

G121162400050-IL
G180000270010-IL

CAPACITORS

C0603, C0604

D011103777163-IL

RESISTORS

R0609
R0612
R9605
Other Resistors

C00001236P520-IL
C00005616P520-IL
RS1/8S0R0J
RS1/16S###J

OTHERS

CN0607 CN.FPC 1.25MM
0000 STOPPER

L131101000020-IL
4380210081000-IL

H XM READY/USB ASSY (A-A9-J) SEMICONDUCTORS

IC0510
IC0513
Q0513, Q0517, Q0518

J042270200010-IL
J121206800020-IL
J522107S00210-IL

	1		2		3		4
	Mark No.	Description	Part No.		Mark No.	Description	Part No.
		D0511, D0514 D0501	K005041480020-IL K06003R344520-IL				
A	<u>CAPACITORS</u>				<u>COILS AND FILTERS</u>		
		C0572 C0504, C0505 C0514, C0515, C0523, C0524 C0569, C0570 C0502, C0503, C0506, C0508	C20000006M160-IL D010300167160-IL D010681167160-IL D011103777160-IL D011104577161-IL			L0701 COIL	D330R15000000-IL
		C0509, C0510, C0512, C0513, C0516 C0518, C0519, C0522	D040100087070-IL D040100087070-IL		<u>SWITCHES AND RELAYS</u>		
						RY0701 RELAY	G680120528010-IL
	<u>RESISTORS</u>				<u>CAPACITORS</u>		
		R0501 Other Resistors	C060022063050-IL RS1/16S###J			C0701,C0703,C0729,C0730 C0706,C0708 C0705 C0942,C0950,C745,C746 C0714	D000150167070-IL D000330167060-IL D004102277050-IL D00410359D050-IL D004222277050-IL
B	<u>OTHERS</u>					C0753,C0754 C0710,C0711,C0731,C0732 C0709 C0735,C0736 C0747,C0748	D020103167050-IL D020104167050-IL D02122106C010-IL CEAT101M50 CEAT102M50
		0501, 0502 SHIELD X0502 CRYSTAL JA0503 JACK,D3.5 JA0504 CN,PLUG CONTACT CN0550 CONNECTOR(6P) CN0501 CN.FPC 1.25MM 0000 SHIELD	3070045526010-IL E80012R000080-IL G40130802000Y-IL G480670680010-IL L102526700600-IL L131112300010-IL 3070210286000-IL			C0733,C0734,C0751,C0752 C0755,C0756 C0702 C0704 C0726	CEAT220M50 CEAT220M50 CEAT470M25 CEANP100M16 CEANP470M10
C	<u>H</u> <u>XM READY/USB ASSY (A-A6-J)</u>				<u>RESISTORS</u>		
	<u>SEMICONDUCTORS</u>					R0703,R0713,R0714 R0712 R0782 R0704,R0708 R0775	RD1/4PU101J C000015263520-IL C00001556P520-IL RD1/4PU220J RD1/4PU221J
		Q0513 D0511, D0514	J522107S00210-IL K005041480020-IL			R0718 R0717 R0791,R0793 R0715 R0711	RD1/4PU222J RD1/4PU223J RD1/4PU334J RD1/4PU334J C000047063520-IL
	<u>CAPACITORS</u>					R0705,R0706 R0722 R0716 R0707 R0792,R0794	RD1/4PU470J RD1/4PU471J RD1/4PU472J RD1/4PU473J RD1/4PU681J
		C0569, C0570	D011103777160-IL			R0899 R0735,R0736 R0723,R0724 R0701,R0702,R0709,R0710 R0719,R0720	C0004R706P520-IL C060010065050-IL C060022063050-IL C060022163050-IL C060022163050-IL
	<u>RESISTORS</u>					R0725,R0726 R0727,R0728 R0819,R0820 R0729,R0730 R9716,R9718-R9722,R9729,R9730	C060033065050-IL C0604R7063050-IL C060R22065050-IL C060R22066050-IL RS1/8S0R0J
	All Resistors		RS1/16S###J			R9732,R9739,R9758 VR0701 VR,SEMI CARBON MOLD VR0702 VR,SEMI CARBON MOLD	RS1/8S0R0J C541202115000-IL C541503115000-IL
	<u>OTHERS</u>						
D		0501, 0502 SHIELD JA0503 JACK,D3.5 CN0550 CONNECTOR(6P) CN0501 CN.FPC 1.25MM	3070045526010-IL G40130802000Y-IL L102526700600-IL L131112300010-IL				
E	<u>I</u> <u>AMP LCH ASSY</u>				<u>OTHERS</u>		
	<u>SEMICONDUCTORS</u>					CN0000 CN,WIRE CN0751 CONNECTOR(4P) CN0752 CN.WAFER 2.0MM CN0705,CN0713 CN.WAFER 2.0MM CN0702 CN.WAFER 2.0MM	L000281040050-IL L101100040410-IL L101100040510-IL L101220020000-IL L101530140210-IL
		Q0720,Q0770 Q0719,Q0767 Q0701-Q0703,Q0706 Q0769 Q0718	2SA1859A 2SC4883A 2SA970 J5001023Y0050-IL 2SA1145			CN0703 CONNECTOR(2P) CN0753 CONNECTOR(3P)	L102526700200-IL L102526700300-IL
		Q0766 Q0709 Q0712,Q0755-Q0757 Q0716,Q0717 Q0707	J5021027Y0020-IL J522107S00210-IL 2SC2240 2SC2705 2SJ79				
		Q0708,Q0713 Q0705 Q0704,Q0714,Q0765,Q0771 D0711-D0714 D0701,D0702	2SJ103 2SK170 2SK246 K000400700520-IL K005041480020-IL				
F		D9701-D9704 D8701,D8702 D0707,D0708	K06020R044520-IL K500036000080-IL 1SS133				

5	Mark No.	Description
	CN0711	CONNECTOR

J AMP RCH ASSY SEMICONDUCTORS

Q0754, Q0764
Q0751, Q0761
Q0743, Q0749, Q0750, Q0752
Q0763
Q0738

Q0760
Q0744, Q0745, Q0748, Q0753
Q0728, Q0741
Q0610
Q0730

Q0734, Q0739
Q0736
Q0735, Q0746, Q0759, Q0762
D0709, D0710
D0715-D0718

D0704, D0706
D9705, D9707, D9708, D9706
D8703, D8704

COILS AND FILTERS

L0702 COIL

SWITCHES AND RELAYS

RY0702 RELAY

CAPACITORS

C0719, C0722, C0741, C0742
C0720, C0721
C0728
C0713, C0757
C0727

C0765, C0768
C0717, C0723, C0739, C0740
C0715
C0737, C0738
C0759, C0760

C0743, C0744, C0763, C0764
C0766, C0767
C0718
C0724
C0725

RESISTORS

R0747, R0765, R0780
R0739
R0787
R0761, R0762
R0766

R0768
R0738
R0796, R0797
R0748
R0740

R0746, R0760
R0731
R0750
R0785
R0795, R0798

6	Part No.
	L108202000220-IL

2SA1859A
2SC4883A
2SA970
J5001023Y0050-IL
2SA1145

J5021027Y0020-IL
2SC2240
2SC2705
J522107S00210-IL
2SJ74

2SJ103
2SK170
2SK246
1SS133
K000400700520-IL

K005041480020-IL
K06020R044520-IL
K500036000080-IL

D330R15000000-IL

G680120528010-IL

D000150067050-IL
D000330167060-IL
D004102277050-IL
D00410359D050-IL
D004222277050-IL

D020103167050-IL
D020104167050-IL
D02122106C010-IL
CEAT101M50
CEAT102M50

CEAT220M50
CEAT220M50
CEAT470M25
CEANP100M16
CEANP470M10

RD1/4PU101J
C000015263520-IL
C00001556P520-IL
RD1/4PU220J
RD1/4PU221J

RD1/4PU222J
RD1/4PU223J
RD1/4PU334J
RD1/4PU334J
C000047063520-IL

RD1/4PU470J
RD1/4PU471J
RD1/4PU472J
RD1/4PU473J
RD1/4PU681J

7	Mark No.	Description
	R0784	
	R0757, R0758	
	R0751, R0773	
	R0745, R0763, R0764, R0767, R0769	
	R0786	
	R0752, R0772	
	R0754, R0790	
	R0823, R0824	
	R0755, R0774	
	R9735, R9751, R9752, R9754-R9757	
	R9759, R9760	
	VR0704 VR, SEMI CARBON MOLD	
	VR0703 VR, SEMI CARBON MOLD	

OTHERS

CN0000 CN, WIRE
CN0754, CN0755 CONNECTOR(4P)
CN0707, CN0710 CN.WAFER 2.0MM
CN0706 CN.WAFER 2.0MM
CN0704 CONNECTOR(2P)

CN0766 CONNECTOR(3P)
CN0712 CONNECTOR

K REG IC ASSY SEMICONDUCTORS

IC0806
IC0803
IC0805, IC0811
IC0802
Q0813, Q0814

CAPACITORS

C0826, C0832, C0875, C0876
C0816, C0817, C0824, C0825
C0859-C0862

RESISTORS

R0866, R0867
Other Resistors

OTHERS

CN0801 CN, WIRE
CN0815 CN, WIRE
CN0802, CN0803 CN, WIRE
CN0810-CN0813 CN.WAFER 2.0MM
CN0814, CN0816 CN.WAFER 3.96MM

0000 HEAT SINK
0000 SCREW

L SUB TRANS ASSY SEMICONDUCTORS

Q0815
D0805-D0808
D0804, D0818

SWITCHES AND RELAYS

RY0651 RELAY

CAPACITORS

C0868
C0866

8	Part No.
	C0004R706P520-IL
	C060010065050-IL
	C060022063050-IL
	C060022163050-IL
	C060022163050-IL
	C060033065050-IL
	C0604R7063050-IL
	C060R22065050-IL
	C060R22066050-IL
	RS1/8S0R0J
	RS1/8S0R0J
	C541202115000-IL
	C541503115000-IL

L000281040060-IL
L101100040410-IL
L101220020000-IL
L101530140210-IL
L102526700200-IL

L102526700300-IL
L108202000220-IL

J126201100020-IL
J126780900020-IL
J126781200040-IL
J126791200060-IL
J522010200210-IL

D011103597160-IL
D040470084070-IL
D040470084070-IL

RS1/8S0R0J
RS1/16S###J

L000101140070-IL
L000141060020-IL
L000600020040-IL
L101100031010-IL
L104359780420-IL

2120211008000-IL
B020030081B10-IL

J522038750210-IL
K000400700520-IL
K005041480020-IL

G680090502010-IL

D004103277050-IL
D00410359D050-IL

Mark No. DescriptionC0881
C0870
C0652**Part No.**D00847208H010-IL
D011102777160-IL
D040471083080-IL**Mark No. Description**R0853, R0854
R0811-R820**Part No.**C060R22065050-IL
RS1/8S0R0J**RESISTORS**R0813
Other ResistorsC00004726P520-IL
RS1/16S###J**OTHERS**0502 TERMINAL
CN0810-CN0813 CN.WAFER 2.0MM
CN0818 CN.WAFER 2.0MM
CN0852 CN.WAFER 2.0MM
CN0804 CONNECTOR(6P)3790040886000-IL
L101100041010-IL
L101220020000-IL
L101220040000-IL
L102526700300-IL**OTHERS**⚠T0801 POWER TRANS
⚠FU0000 FUSE(T4A)
F0651, F0801 HOLDER,FUSE CLIP
CN0804 CN,WIRE
CN0301 CONNECTOR8200280150330-IL
AEK1060
G645000050010-IL
L000351040100-IL
L108202000220-IL

CN0803 CN.WAFER 2.5MM

L102526700600-IL

**HEADPHONE ASSY
CAPACITORS**C0653,C0654
C0616D010221167160-IL
D011103777163-IL**OTHERS**0503 TERMINAL
JA0601 JACK,D6.5
CN0651 CN,WIRE3790040886000-IL
G402PJ612AG0Y-IL
L000501040040-IL**POWER SW ASSY
SWITCHES AND RELAYS**

⚠S0801 POWER SWITCH

VSA1005

OTHERSCN0709 CN,WIRE
CN0708 CN,WIREL000121020220-IL
L000301020060-IL**PROTECTION L-CH ASSY
SEMICONDUCTORS**Q0727
Q0723,Q0725,Q0726
D0721,D0722
D0710J5000992F0050-IL
J5021845F0000-IL
K005041480020-IL
K06605R14P400-IL**CAPACITORS**

C0712,C0750

CEAT101M10

RESISTORSR0733,R0781
Other ResistorsRS1/8S0R0J
RS1/16S###J**OTHERS**CN0771 CONNECTOR(4P)
CN0770 CN.WAFER 2.0MML101100030410-IL
L101100030510-IL**PROTECTION R-CH ASSY
SEMICONDUCTORS**Q0733
Q0724,Q0729,Q0742
D0719,D0720
D0709J5000992F0050-IL
J5021845F0000-IL
K005041480020-IL
K06605R14P400-IL**CAPACITORS**

C0716,C0749

CEAT101M10

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN0754,CN0755 CONNECTOR(4P)

L101100030410-IL

**SPEAKER L-CH ASSY (A-A6-J Only)
OTHERS**

JA0701 TER,BOARD SCREW 2P

G611202H0100Y-IL

	5		6		7		8	
Mark No.	Description		Part No.					
CN0911	CN,WIRE		L000101030230-IL					

S

SPEAKER R-CH ASSY (A-A6-J Only)
OTHERS

JA0000

TER,BOARD SCREW 2P

G611202H0100Y-IL

CN0912

CN,WIRE

L000101030230-IL

6. ADJUSTMENT

6.1 Idle Current and DC offset Adjustment



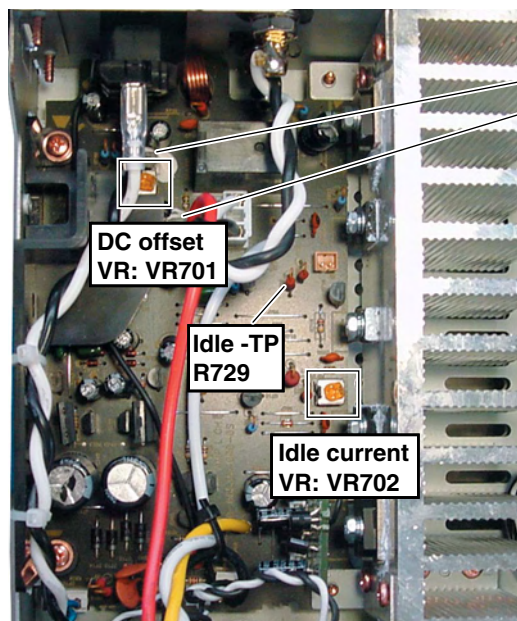
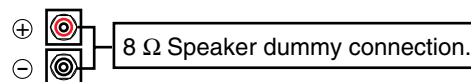
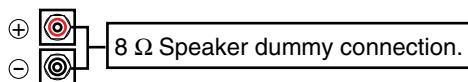
1. Idle Current Adjustment

- **Measurement Points:** AMP Lch Assy : R729
AMP Rch Assy : R774
- **Adjustment Points:** AMP Lch Assy : VR702
AMP Rch Assy : VR703
- **Procedure**
 - ① Turn on the power
 - ② Connect a digital voltmeter to both ends of resistor of the measurement point.
(70 mV of AMP Lch: R729 and AMP Rch: R774).
 - ③ Perform aging for more than five minute.
 - ④ Slowly turn the adjustment VR clockwise so that the voltage becomes in the readjustment of 60 mV

• **Adjustment Point and Measurement Points....** see fig1.

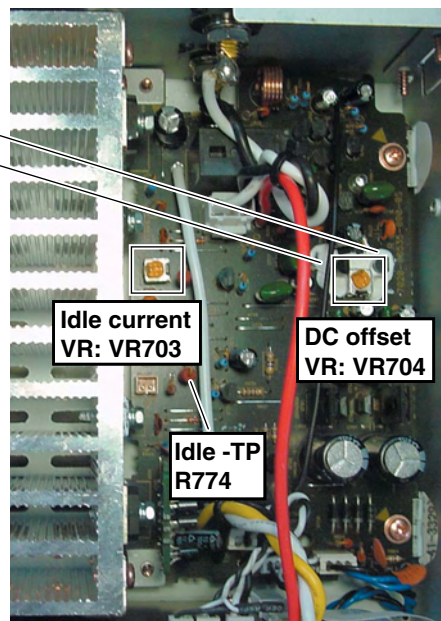
2. DC Offset Adjustment

- **Measurement Points:** AMP Lch Assy : SP terminal
AMP Rch Assy : SP terminal
- **Adjustment Points:** AMP Lch Assy : VR701
AMP Rch Assy : VR704
- **Procedure**
 - ① The voltage of SP terminal is adjusted to 0 ± 10 mV.
(8 Ω Speaker dummy connection)
- **Adjustment Point and Measurement Points....** see fig1.



I AMP Lch Assy

[fig 1.]



J AMP Rch Assy

Caution when transistors (Q713, Q714, Q739 and Q746) are replaced

Please cover the leads of the transistors at Silicon bond for the variation prevention of DC Offset when you have exchanged transistors.

7. GENERAL INFORMATION

7.1 TROUBLE SHOOTIG

FUSE F801 is blown.

→ Check whether D809, D810, D813 or D814 is damaged.

LCD BACK LIGHTING is not lit.

→ Check whether +5V is output at OUT PUT of IC804 REG IC.
Check the voltage drop at resistor R852 22Ω.
Check the voltage drops at resistors R821, R822 0.22Ω.

MICOM is not functioning.

→ Check whether +6V is output at OUT PUT of IC809.
Check whether XTAL101 is oscillating properly.
Check whether RESET IC of IC511 is functioning properly.

When SPEAKER PROTECTION is engaged

Check whether POWER TR is functioning properly.
Check whether R730, R729 0.22Ω of L-CH and R774, R755 0.22Ω of R-CH are damaged.
Check whether + power supply and - power supply are supplied.

ELECTRONIC VOLUME is not functioning.

→ Check whether +8V is output at OUT PUT of IC112, and whether -8V is output at OUT PUT of IC111.
Check whether data is input at PIN42, 43 of IC101.

When there is no sound

→ Check the operation status of Q111, Q112 MUTE TR.

HEAT SINK is overheated.

Check whether IDLE is adjusted at 52mv+/-10mV without load.

MOTOR VOLUME is not functioning.

→ Check whether +9V is output at OUT PUT of IC807.
Check whether MOTOR DRIVE IC of IC650 is functioning properly.

7.2 SPECIFICATION OF PROTECTIVE OPERATION

*When SPEAKER OUT is overloaded, turn off SPEAKER RELAY immediately and turn off power supply RELAY. Then, blinks the STAND BY LED.

*When DC voltage is detected at SPEAKER OUT, turn off SPEAKER RELAY and power supply RELAY. Then, blinks the STAND BY LED.

After that, normal operation MODE will be resumed by turning power supply SW off/on. Similarly, normal operation MODE will be resumed by reconnecting the power cord.

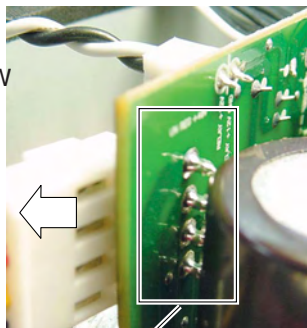
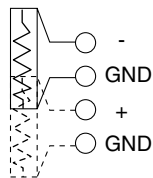


STANDBY LED

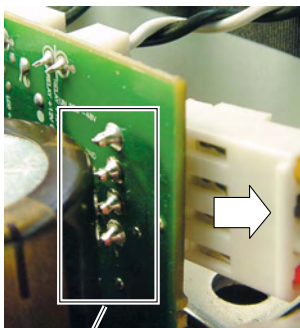
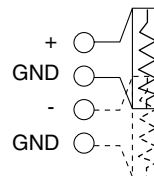
7.3 DISCHARGE OF POWER AMPLIFIER

1. Turn off the power of the product.
2. Discharge both ends of capacitor of Power Assy by short-circuiting (connector GND and +, connector GND and -) using a resistor with $200\Omega/10W$ (and above) for 30 seconds.

Resistor with $200\Omega/10W$



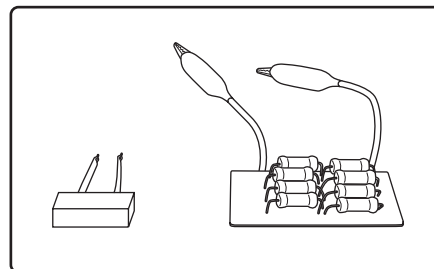
Resistor with $200\Omega/10W$



REG IC Assy

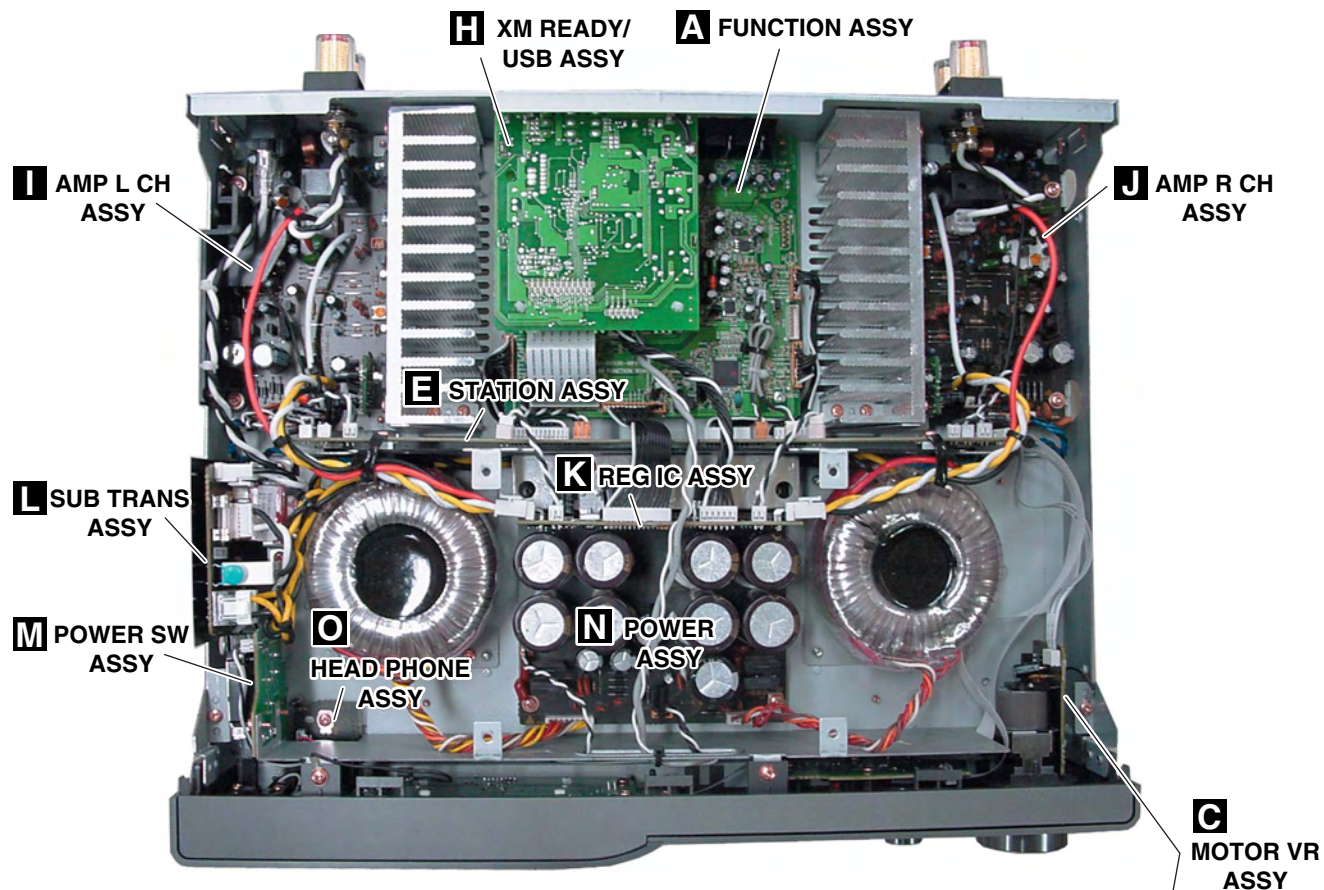


Resistor to be used

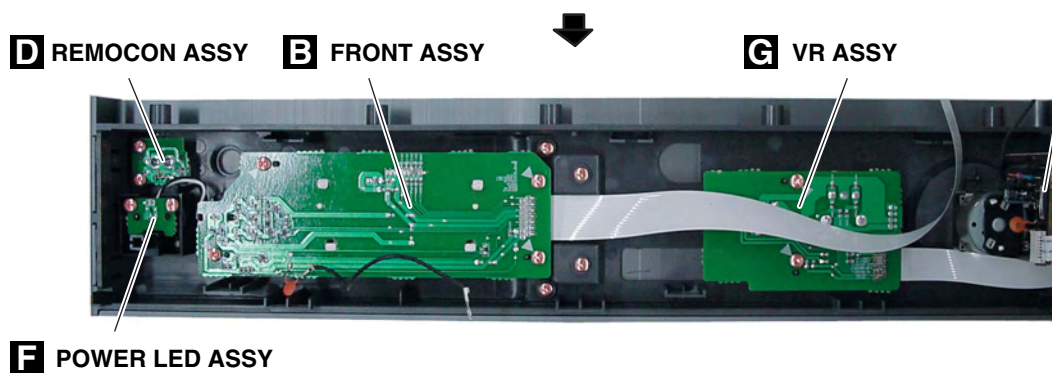


7.4 PCB LOCATION

• A-A9 model



• Top view



• Front view

7.5 DISASSEMBLY

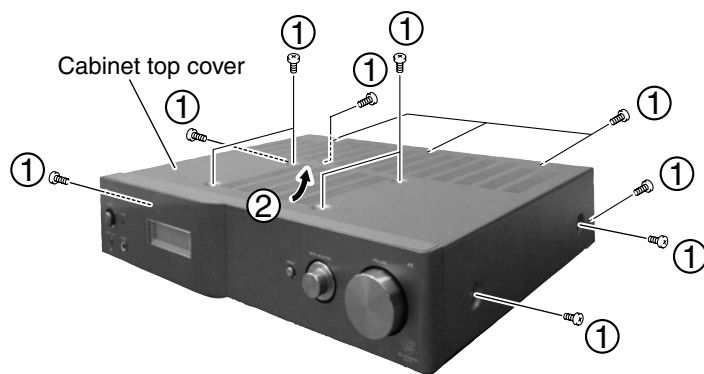
Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Disassembly

• A-A6 model

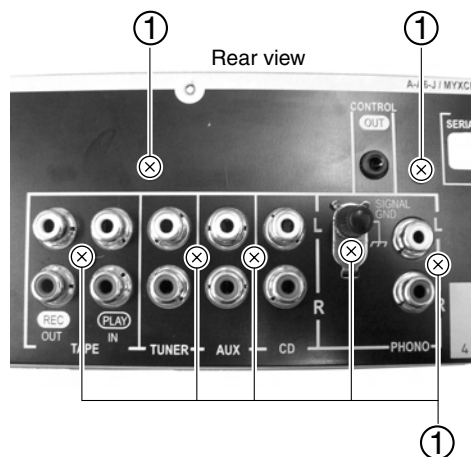
1 Cabinet top cover

- ① Remove 13 screws.
- ② Remove the cabinet top cover.

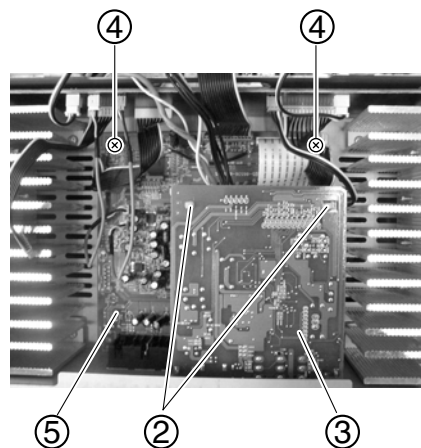


2 FUNCTION Ass'y

- ① Remove 7 screws.

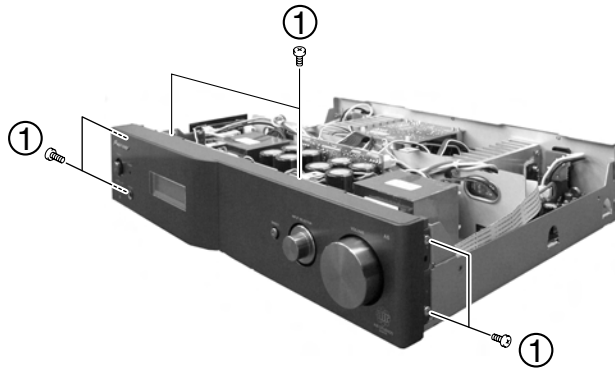


- ② Remove spacers (2 locations) on the board.
- ③ Remove XM-READY/USB Ass'y.
- ④ Remove 2 screws.
- ⑤ Remove FUNCTION Ass'y.



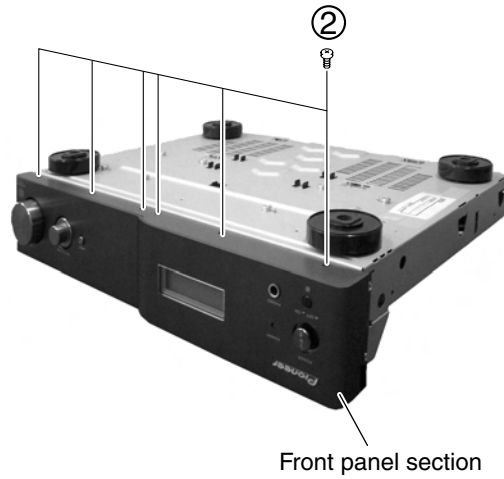
3 Front Panel

- ① Remove the 6 screws.



- ② Remove the 6 screws.

- ③ Remove the front panel section.



Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Disassembly

• A-A9 model

1 Cabinet top cover

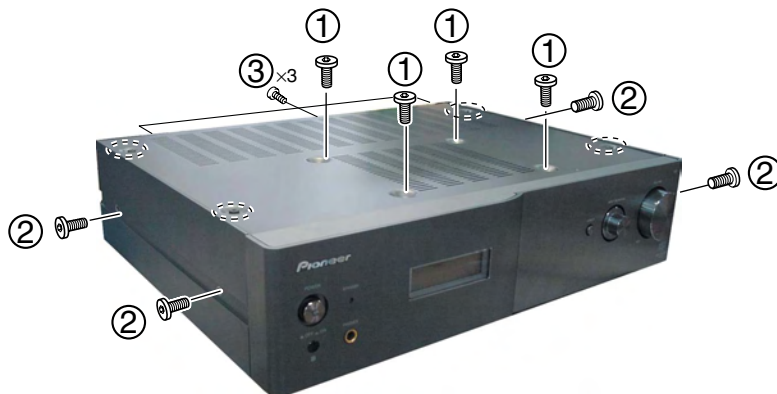
① Remove 4 screws.

② Remove 4 screws. (Left, Right)

③ Remove 4 screws. (Rear section)

Note:

Even if the portion of the round (○) mark does not remove the screw, the cabinet top cover separates.



2 FUNCTION Ass'y

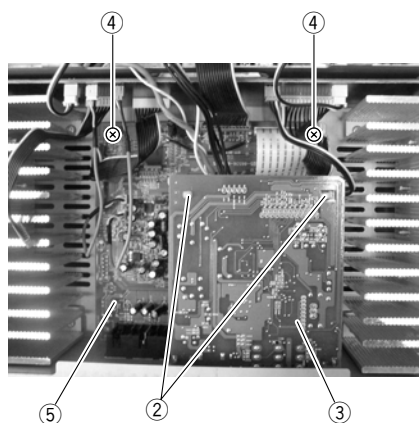
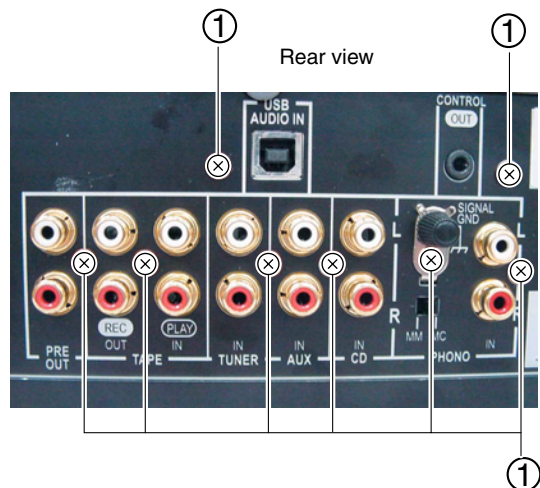
① Remove 8 screws.

② Remove spacers (2 locations) on the board.

③ Remove XM-READY/USB Assy.

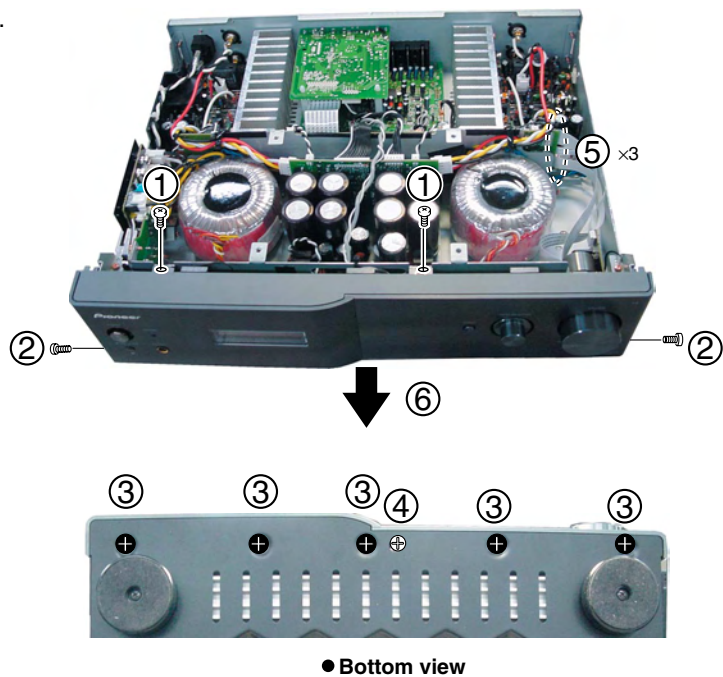
④ Remove 2 screws.

⑤ Remove FUNCTION Assy.



3 Front Panel

- ① Remove the 2 screws.
- ② Remove the 2 screws. (Left, Right)
- ③ Remove the 5 screws. (Bottom side)
- ④ Remove the 1 screws. (Bottom side)
- ⑤ Remove the flexible cable.
- ⑥ Remove the Front panel.



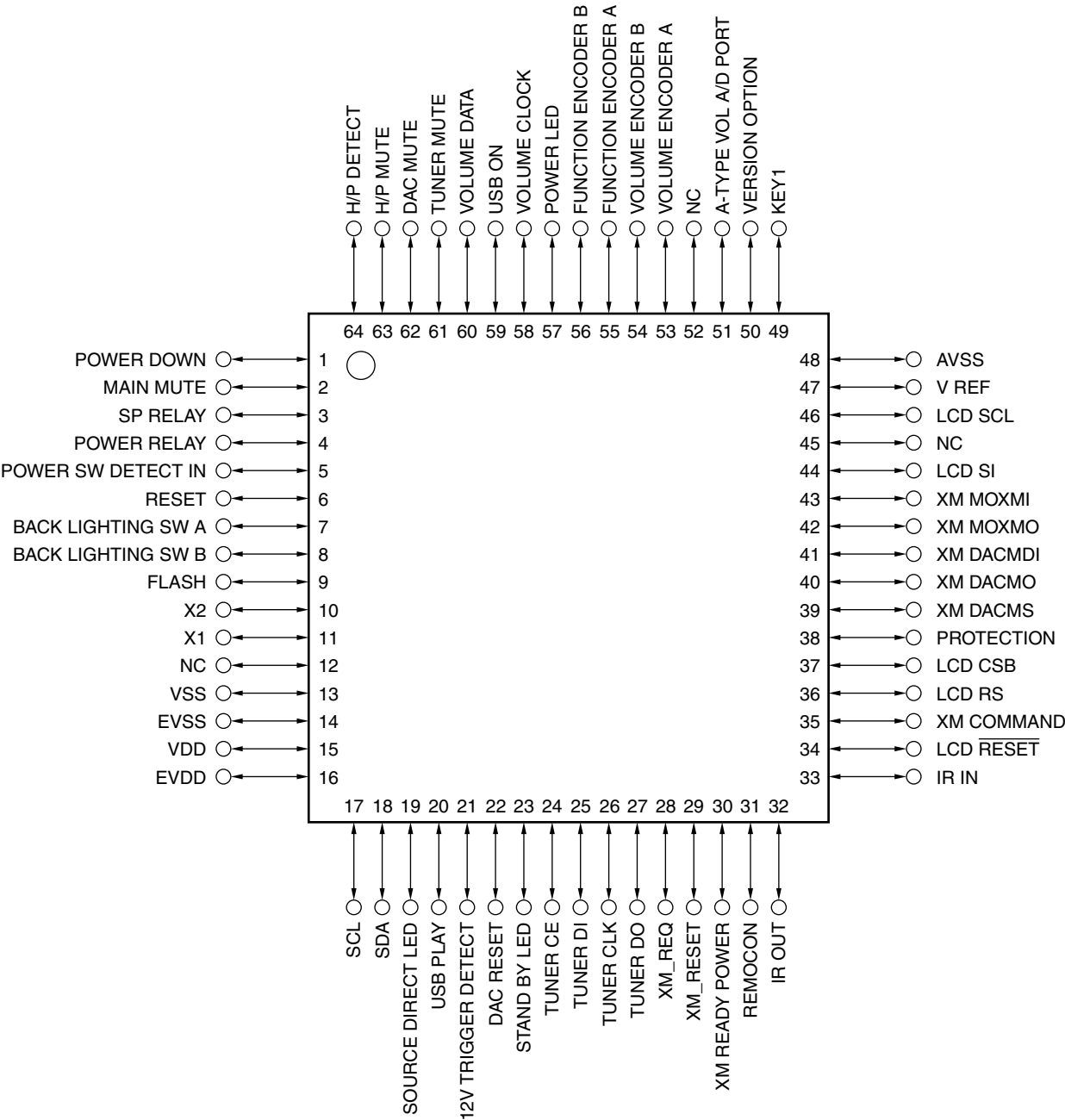
7.6 IC INFORMATION

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

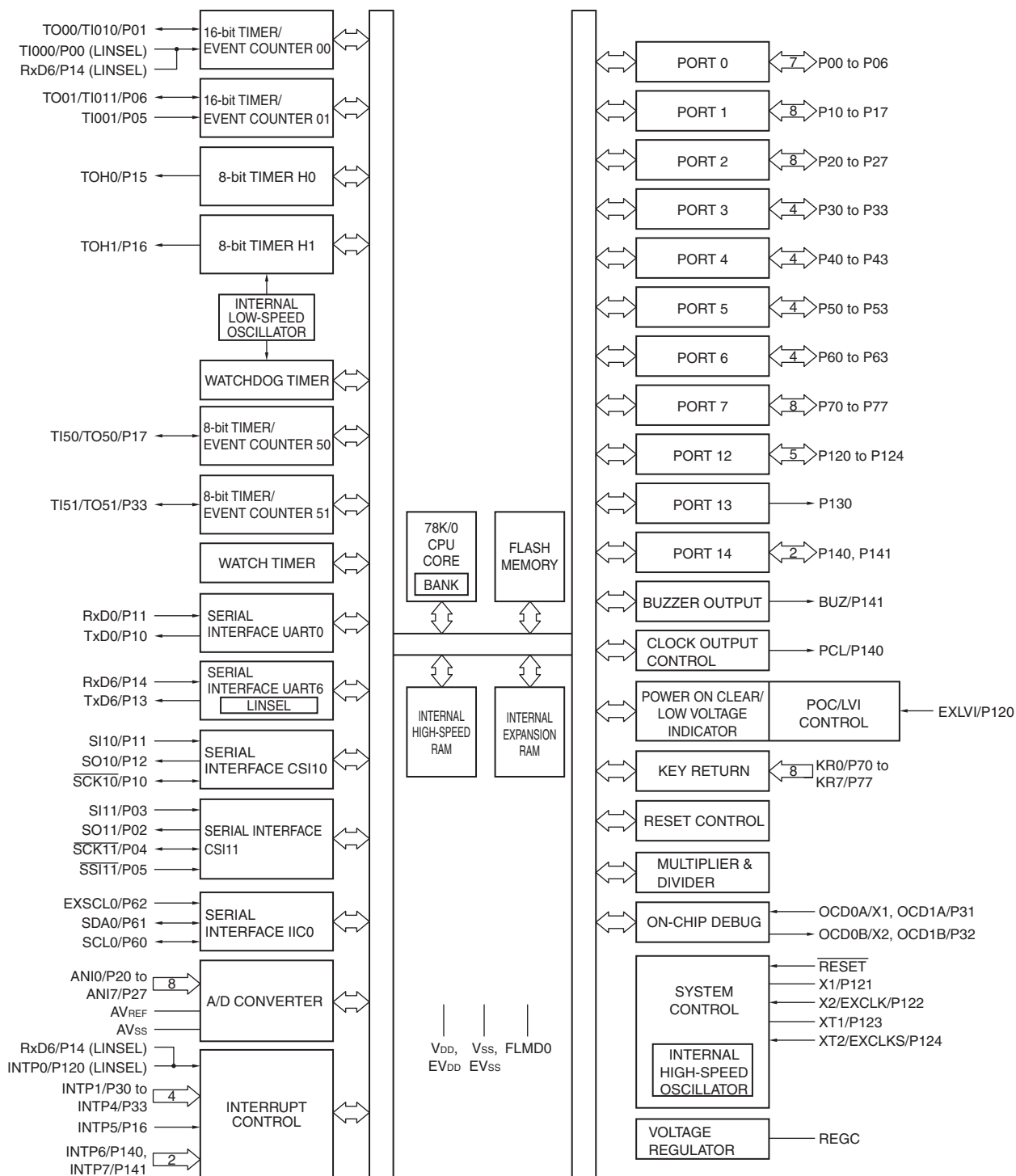
- List of IC
J020780536000-IL

J020780536000-IL (FUNCTION ASSY : IC102)

- Main Microcomputer
- Pin Arrangement (Top View)



● Block Diagram



A

● Pin Function

No.	Port	Pin Name
1	P120/INTP0/EXLVI	POWER DOWN
2	P43	MAIN MUTE
3	P42	SP RELAY
4	P41	POWER RELAY
5	P40	POWER SW DETECT IN
6	RESET	RESET
7	P124/XT2/EXCLKS	BACK LIGHTING SW A
8	P123/XT1	BACK LIGHTING SW B
9	FLMD0	FLASH
10	P122/X2/EXCLK/OCD0B	X2
11	P121/X1/OCD0A	X1
12	REGC	NC
13	Vss	VSS
14	EVss	EVSS
15	VDD	VDD
16	EVDD	EVDD
17	P60/SCL0	SCL
18	P61/SDA0	SDA
19	P62/EXSCL0	SOURCE DIRECT LED
20	P63	USB PLAY
21	P33/TI51/TO51/INTP4	12V TRIGGER DETECT
22	P77/KR7	DAC RESET
23	P76/KR6	STAND BY LED
24	P75/KR5	TUNER CE
25	P74/KR4	TUNER DI
26	P73/KR3	TUNER CLK
27	P72/KR2	TUNER DO
28	P71/KR1	XM_REQ
29	P70/KR0	XM_RESET
30	P06/TO01/TI011	XM READY POWER
31	P05/SSI11/TI001	REMOCON
32	P32/INTP3/OCD1B	IR OUT
33	P31/INTP2/OCD1A	IR IN
34	P50	LCD RESET
35	P51	XM COMMAND
36	P52	LCD RS
37	P53	LCD CSB
38	P30/INTP1	PROTECTION
39	P17/TI50/TO50	XM DACMS
40	P16/TOH1/INTP5	XM DACMO
41	P15/TOH0	XM DACMDI
42	P14/RxD6	XM MOXMO
43	P13/TxD6	XM MOXMI
44	P12/SO10	LCD SI
45	P11/SI10/RxD0	NC
46	P10/SCK10/TxD0	LCD SCL
47	AVREF	V REF
48	AVss	AVSS

No.	Port	Pin Name
49	P27/ANI7	KEY1
50	P26/ANI6	VERSION OPTION
51	P25/ANI5	A-TYPE VOL A/D PORT
52	P24/ANI4	NC
53	P23/ANI3	VOLUME ENCODER A
54	P22/ANI2	VOLUME ENCODER B
55	P21/ANI1	FUNCTION ENCODER A
56	P20/ANI0	FUNCTION ENCODER B
57	P130	POWER LED
58	P04/SCK11	VOLUME CLOCK
59	P03/SI11	USB ON
60	P02/SO11	VOLUME DATA
61	P01/TI010/TO00	TUNER MUTE
62	P00/TI000	DAC MUTE
63	P141/BUZ/INTP7	H/P MUTE
64	P140/PCL/INTP6	H/P DETECT

A

B

C

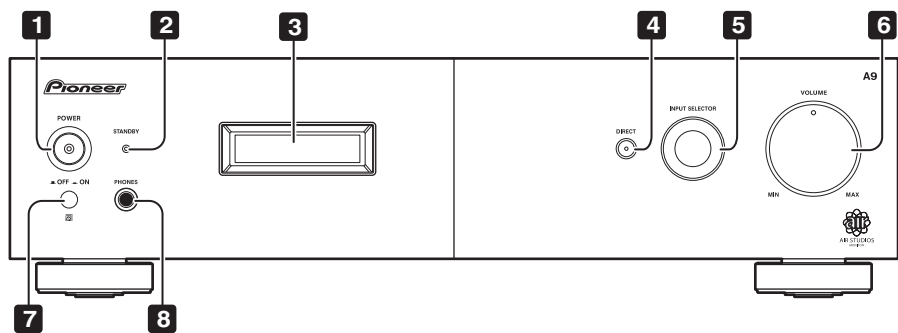
D

E

F

8. PANEL FACILITIES

A Front panel



1 POWER OFF ON

2 Standby indicator

3 Character display

4 DIRECT

Press to switch the Direct listening feature on or off.

5 INPUT SELECTOR dial

Selects an input source.

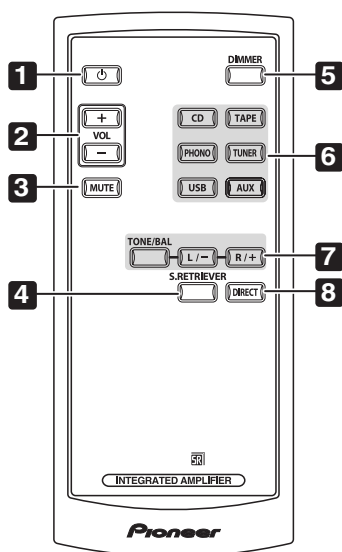
6 MASTER VOLUME

7 Remote sensor

8 PHONES jack

Use to connect headphones (when connected, there is no sound output from speakers).

Remote control



1 ⏻

Switches the amplifier between standby and on.

2 VOLUME +/-

Use to set the listening volume.

3 MUTE

Mutes/unmutes the sound

4 S. RETRIEVER (A9 Only)

Press to switch the Sound Retriever on/off

5 DIMMER

Dims or brightens the display (or switches the backlight off).

6 Input selector buttons

Press to select an input source. There select the component connected to the corresponding input on the rear panel.

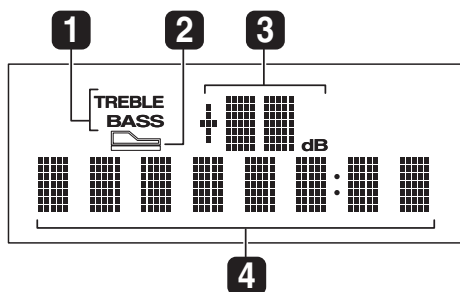
7 TONE/BAL controls

Use to adjust the tone and balance.

8 DIRECT

Press to access Direct listening.

Display



1 Tone control indicators

TREBLE - Lights when high-range tone adjustment is applied.

BASS - Lights when low-range tone adjustment is applied.

2 Sound Retriever indicator

Lights when the Sound Retriever function is enabled.

3 Master volume level

4 Character display

Displays various system information.