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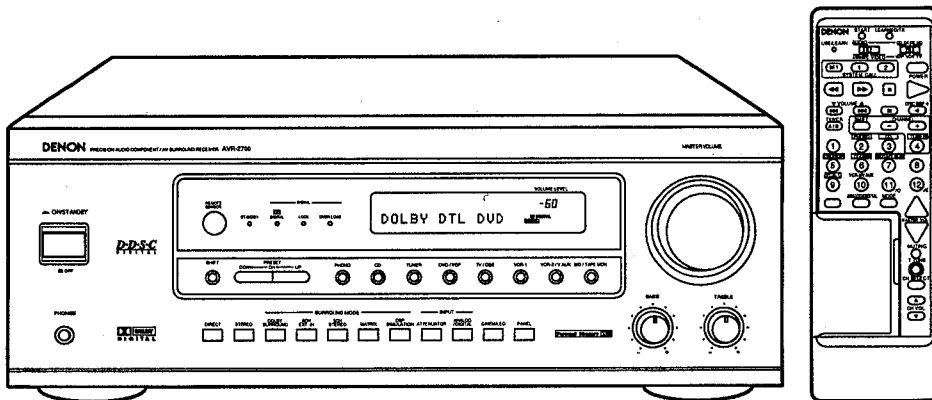
Hi-Fi AV Surround Receiver

For Europe Model

SERVICE MANUAL

MODEL AVR-2700

AV SURROUND RECEIVER



This service manual is supplement for Europe model. For servicing, refer to the service manual of AVR-2700 (For U.S.A. model) already issued at the same time.

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

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SAFETY PRECAUTIONS

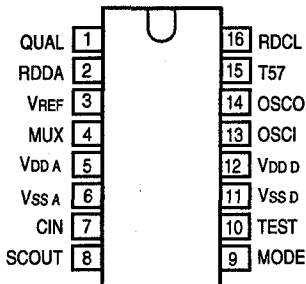
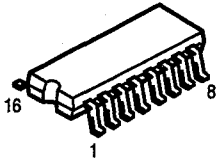
The following check should be performed for the continued protection of the customer and service technician.

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.

ADDITIONAL SEMICONDUCTORS

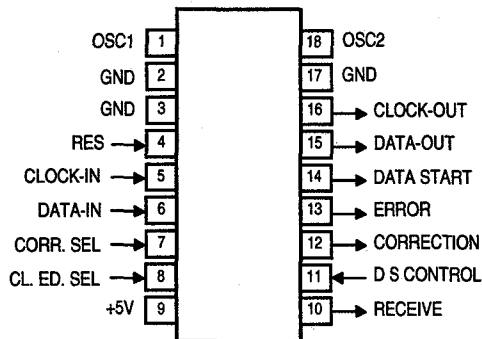
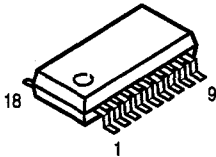
SAA6579T (CO: IC111)



SAA6579T Terminal Function

Pin No.	Symbol	Function
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	VREF	Reference voltage output (0.5 VDD A).
4	MUX	Multiplex signal input.
5	VDD A	+5V power supply for analog part.
6	VSS A	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier output of reconstruction filter.
9	MODE	Oscillation mode/test control input.
10	TEST	Test enable input.
11	VSS D	Ground for digital part (0V).
12	VDD D	+5V power supply for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	T57	57kHz clock signal output.
16	RDCL	RDS clock output.

LC7074M (CO: IC112)



NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

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

● **Resistors**

Ex.: RN 14K 2E 182 G FR
 Type Shape Power Resist- Allowable Others
 and per- ance error
 performance

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

* Resistance

$\overset{1}{\uparrow} \text{8} \overset{2}{\downarrow} \Rightarrow 1800 \text{ ohm} = 1.8 \text{ kohm}$
 Indicates number of zeros after effective number.
 2-digit effective number.

• Units: ohm

$\overset{1}{\uparrow} \text{R} \overset{2}{\downarrow} \Rightarrow 1.2 \text{ ohm}$
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

• Units: ohm

● **Capacitors**

Ex.: CE 04W 1H 2R2 M BP
 Type Shape Dielectric Capacity Allowable Others
 and per- strength error
 performance

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

* Capacity (electrolyte only)

$\overset{2}{\uparrow} \overset{2}{\downarrow} \overset{2}{\downarrow} \Rightarrow 2200\mu\text{F}$
 Indicates number of zeros after effective number.
 2-digit effective number.

• Units: μF.

$\overset{2}{\uparrow} \text{R} \overset{2}{\downarrow} \Rightarrow 2.2\mu\text{F}$
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.

• Units: μF.

* Capacity (except electrolyte)

$\overset{2}{\uparrow} \overset{2}{\downarrow} \overset{2}{\downarrow} \Rightarrow 2200\text{pF} = 0.0022\mu\text{F}$
 (More than 2) — Indicates number of zeros after effective number.
 2-digit effective number.

• Units: μF.

$\overset{2}{\uparrow} \overset{2}{\downarrow} \overset{1}{\downarrow} \Rightarrow 220\text{pF}$
 (0 or 1) — Indicates number of zeros after effective number.
 2-digit effective number.

• Units: pF.

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

ADDENDUM PARTS LIST OF P.W.B. UNIT ASS'Y 1U-3105 TUNER AMP. UNIT A'SSY

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3105	Tuner amp. unit ass'y	1U-3105B	Tuner amp. unit ass'y
IC501	216 0102 008	Front end	216 9013 004	FM front end (U) S
TR501	—	—	275 0074 902	FET 2SK211-Y/GR
R502	—	—	247 0018 905	Carbon chip 0 ohm 1/10W±10%
R515	247 0005 905	Carbon chip 100 ohm 1/10W ±5%	247 0011 928	Carbon chip 39 kohm 1/10W±5%
R516	247 0007 945	Carbon chip 1 kohm 1/10W ±5%	247 0006 920	Carbon chip 330 ohm 1/10W ±5%
R517	—	—	247 0006 920	Carbon chip 330 ohm 1/10W ±5%
R535	247 0010 945	Carbon chip 18 kohm 1/10W ±5%	—	—
R536	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0008 944	Carbon chip 2.7 kohm 1/10W ±5%
R544,545	247 0012 927	Carbon chip 100 kohm 1/10W ±5%	247 0012 969	Carbon chip 150 kohm 1/10W±5%
R555,556	247 0009 927	Carbon chip 5.6 kohm 1/10W ±5%	247 0008 960	Carbon chip 3.3 kohm 1/10W ±5%
R575,576	247 0012 943	Carbon chip 120 kohm 1/10W ±5%	247 0012 998	Carbon chip 200 kohm 1/10W ±5%
R579-581	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	—	—
R645	—	—	247 0009 985	Carbon chip 10 kohm 1/10W ±5%
R646	—	—	247 0009 927	Carbon chip 5.6 kohm 1/10W ±5%
R705,706	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R721,722	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R737,738	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R793-798	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0006 962	Carbon chip 470 ohm 1/10W ±5%
C405,406	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C409,410	254 4254 938	Electrolytic 47 μF/16V ±20%	254 4254 941	Electrolytic 100 μF/16V ±20%
C415,416	254 4254 912	Electrolytic 22 μF/16V ±20%	254 4254 938	Electrolytic 47 μF/16V ±20%
C435,436	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C462	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C518	—	—	257 0005 960	Ceramic chip 270 pF/50V ±5%
C519	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C527	254 4260 948	Electrolytic 1 μF/50V ±20%	254 4260 922	Electrolytic 0.33 μF/50V ±20%
C536	257 0004 961	Ceramic chip 100 pF/50V ±5%	—	—
C537	—	—	254 4254 912	Electrolytic 22 μF/16V ±20%
C539,540	257 0006 972	Ceramic chip 750 pF/50V ±5%	257 0005 986	Ceramic chip 330 pF/50V ±5%
C564,565	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C701,702	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C715,716	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C729,730	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
CF501	261 0135 907	Ceramic filter MA8	261 0146 006	Ceramic filter FMCFSK107M2-A
CF502	261 0136 906	Ceramic filter MS2G	261 0146 006	Ceramic filter FMCFSK107M2-A
LF501	—	—	232 9010 009	Antibirdie filter
LF503,504	—	—	232 0085 004	LPF

1U-3106 DISPLAY VIDEO UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
C205,206	1U-3106	Display video unit ass'y	1U-3106B	Display video unit ass'y
	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 987	Ceramic 470 pF/50V ±10%

1U-3107 CONTROL UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3107	Control unit ass'y	1U-3107B	Control unit ass'y
IC111	—	—	262 1701 906	IC SAA6579T
IC112	—	—	262 1929 908	IC LC7074M-TE-R
D101	—	—	276 0432 903	Diode 1SS270A
R168	—	—	247 0018 905	Carbon chip 0 ohm 1/10W ±10%
R196	—	Short	—	Open
R197	—	Open	—	Short
R200	—	—	247 0009 985	Carbon chip 10 kohm 1/10W ±5%
C165,166	—	—	257 0003 920	Ceramic chip 27 pF/50V ±5%
C167	—	—	254 4260 951	Electrolytic 2.2 μF/50V ±20%
C168	—	—	254 4254 909	Electrolytic 10 μF/16V ±20%
C169	—	—	257 0006 943	Ceramic chip 560 pF/50V ±5%
C170	—	—	257 0012 966	Ceramic chip 0.01 μF/50V 80%, ±20%
C171	—	—	254 4254 909	Electrolytic 10 μF/16V ±20%
C186	257 0008 983	Ceramic chip 1000 pF/50V±5%	—	—
X101	—	—	399 0178 007	Crystal 4.332 MHz
X102	—	—	399 0191 903	Ceramic 4.00 MHz

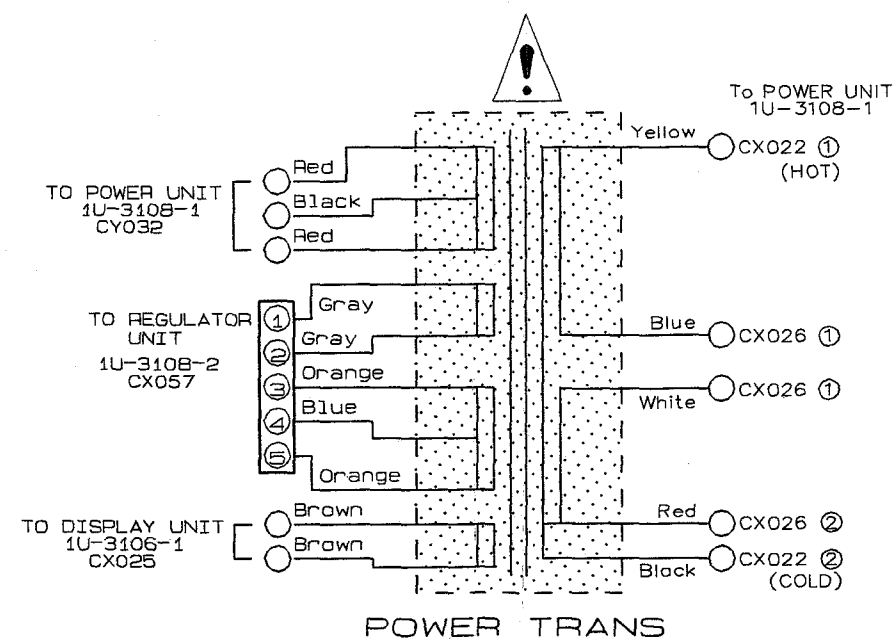
1U-3109 AUDIO IN DSP UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3109	Audio in DSP unit ass'y	1U-3109A	Audio in DSP unit ass'y
R601,602	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0007 974	Carbon chip 1.3 kohm 1/10W ±5%
C509-512	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C617-626	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C661,662	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C887	—	—	257 0008 983	Ceramic chip 1000 pF/50V ±5%
C888,889	257 0008 983	Ceramic chip 1000 pF/50V ±5%	—	—
C945	—	—	257 0004 987	Ceramic chip 120 pF/50V ±5%
C996	—	—	247 0018 905	Carbon chip 0 ohm 1/10W ±10%
LF601,602	—	—	235 9003 002	FTZ choke coil
W702,703	—	—	001 0025 017	Vinyl wire
—	—	—	414 0851 005	Shield bracket
—	—	—	203 0312 038	Wire ass.

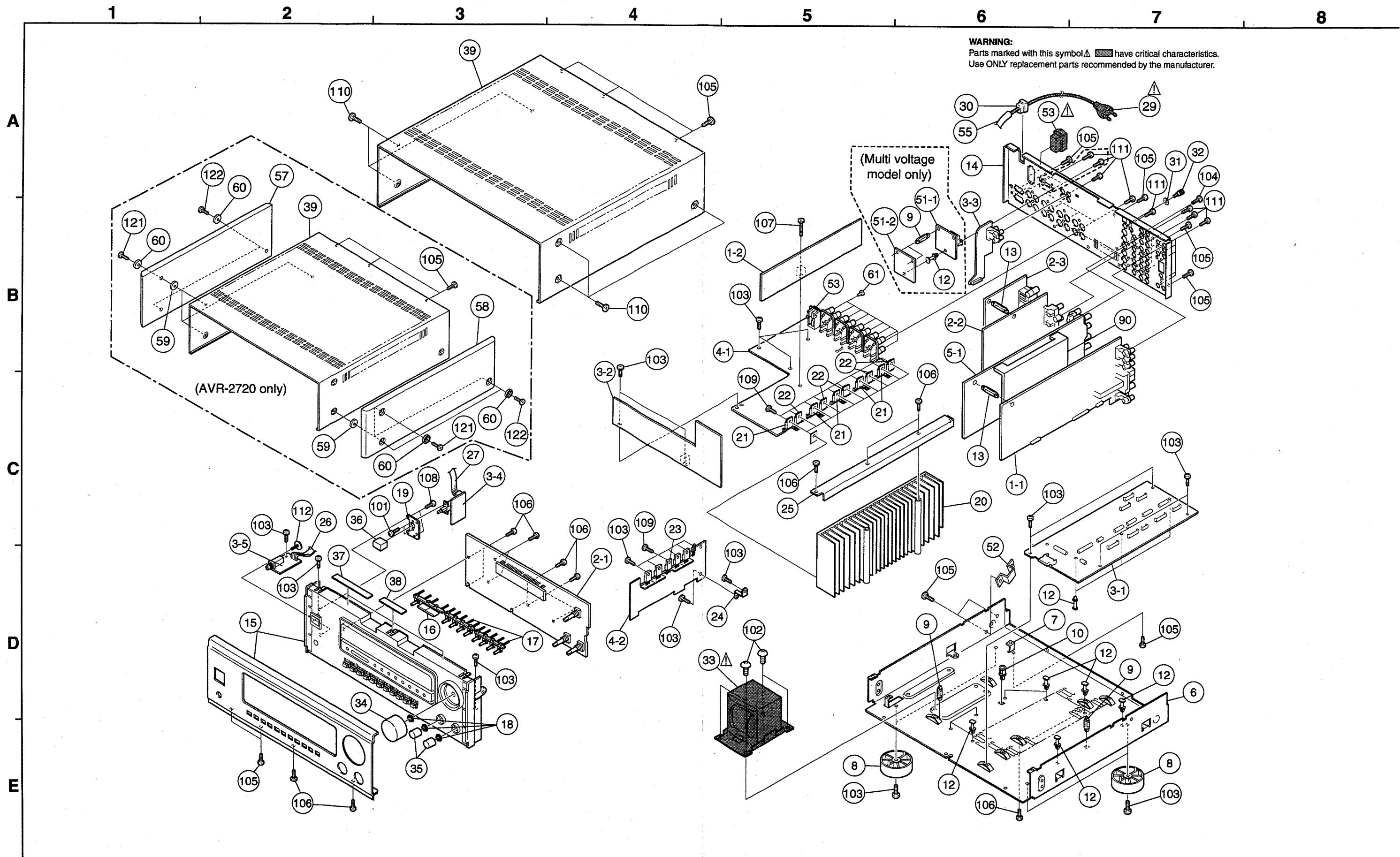
1U-3108 POWER AMP. UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model		Remarks
	Part No.	Part Name	Part No.	Part Name	
	1U-3108	Power amp. unit ass'y	1U-3108B	Power amp. unit ass'y	
R734	242 2009 001	Composition 2.2 Mohm 1/2W ±10%	—	—	
ΔAC501	203 3976 002	AC outlet (2P)	—	—	
CX23	—	—	205 0581 001	2P VH connector base	
CX26	—	—	205 0348 024	2P wrapping terminal	
ΔF1	206 1046 001	Fuse 6.3A UL 20mm	206 1015 074	Fuse 3.15A	
ΔF8	206 1046 014	Fuse 8A	206 1015 032	Fuse 2.5A	
ΔF11,12	206 1039 076	Fuse 2.5A	206 1015 032	Fuse 2.5A	
ΔF13	206 1039 076	Fuse 2.5A	206 1015 032	Fuse 2.5A	
ΔT501	233 6073 000	Power trans. (Mini)—EU	233 6058 012	Power trans. (Mini)—E2	
—	—	—	415 0299 000	Condenser cover	for C684
—	—	—	513 2585 045	Fuse label	for F1
—	—	—	513 2585 074	Fuse label	for F8,11,12,13

SCHEMATIC DIAGRAM (POWER TRANS)



EXPLODED VIEW OF CHASSIS AND CABINET



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

(AVR-2720 only)

(Multi voltage model only)

ADDENDUM PARTS LIST OF EXPLODED VIEW

Ref. No.	Part Name	U.S.A. Model		Europe Model	
		Part No.	Q'ty	Part No.	Q'ty
14	Back panel	105 1281 000		105 1281 039	
15	Inner panel ass'y	146 2065 019		146 2065 048	
△ 29	AC cord	206 2060 002		206 2063 009	
△ 33	Power trans.	233 6253 008		233 6254 007	
52	Side bracket	—		412 2955 107	
△ 53	AC outlet	203 3976 002		203 3942 007	
54	3P VH connector cord	—		203 5177 016	
55	UL tube (8.3)	—		415 0546 070	
56	Caution label	513 3156 004		—	
61	Push rivet	—	—	477 0096 007	16
90	Earth plate	—		414 0852 004	
105	Screw 3x8 CBTS(S)-B	473 7015 018	11	473 7015 018	13
111	Fixing screw	477 0064 107	23	477 0064 107	21
205	Instruction manual	511 3263 001		511 3286 004	
208	RC-844 remocon unit	399 0498 004		—	
208	RC-845 remocon unit	—		399 0498 017	
214	UPC label	517 1318 066		—	
214	E2 POS label	—		517 1356 031	
224	DEL warranty home	515 0690 307		—	