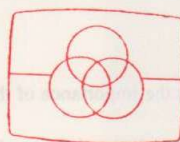


Service Manual



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ORDER NO.
ARP2222

AV DIGITAL SURROUND AMPLIFIER

VSA-740 HE, HB

VSA-740 HAS THE FOLLOWING:

Type	Power Requirement	Remarks
HE	AC220-230V, 240V (switchable)*	
HB	AC220-230V, 240V (switchable)*	

* Change the primary wiring of the power transformer.

- Refer to the service manual ARP2012, VSA-730/HE.
- This manual is applicable to the VSA-740/HE and HB types.

not available yet!

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

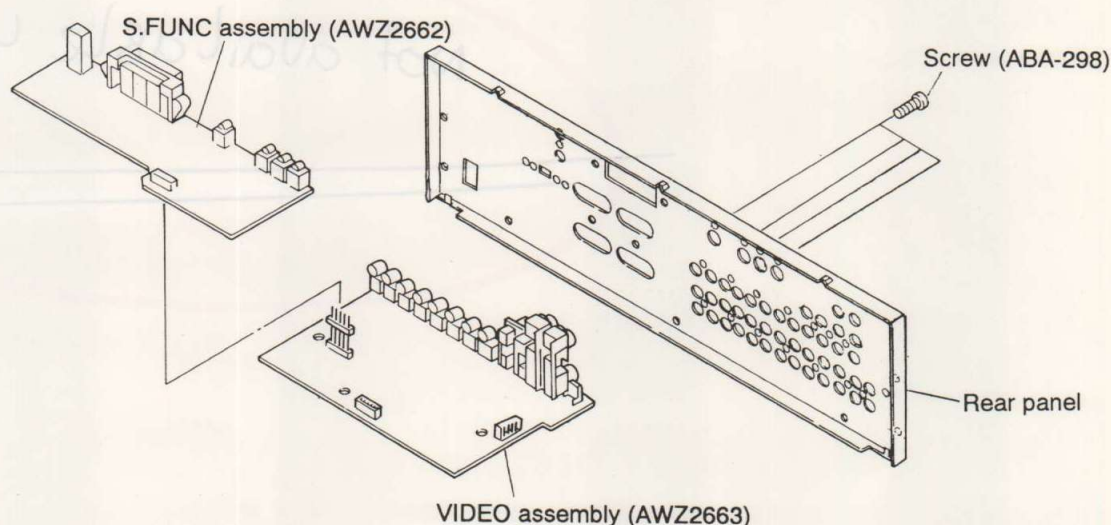
- Parts without part number cannot be supplied.
- The $\triangle$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked " $\odot$ " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

The VSA-740/HE, HB types are the same as the VSA-730/HE type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		VSA-730/ HE type	VSA-740/ HE type	VSA-740/ HB type	
$\odot$	S.FUNC assembly		AWZ2662	AWZ2662	* 1
$\odot$	R.SP assembly	AWZ2922			
$\triangle$	AC Power cord	ADG1021	ADG1049	ADG1087	
$\triangle$	FU3, FU4 Fuse (T4A)	AEK-400	AEK-514	AEK-514	
$\triangle$	FU1 Fuse (T2.5A)	AEK-403	AEK-512	AEK-512	
$\triangle$	T1 Power transformer (AC220/240V)	ATS1270	ATS1355	ATS1355	
$\triangle$	Strain relief		AEC-882	AEC-882	
	Front panel	ANB1351	ANB1476	ANB1476	
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARC1206	ARC1279		
	Operating instructions (English, French, German, Italian)	ARE1159	ARE1202		
	Operating instructions (English)			ARB1325	
	Packing case	AHD1848	AHD2077	AHD2077	

* 1: The S-FUNC assembly is mounted as shown in the figure below.

This assembly is the improvement version of the R.SP assembly and added with S terminal I/O circuit.



2. P.C.B's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- 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.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%)
560 Ω → 56 × 10¹ → 561 RD1/4PS

5	6	1
---	---	---

 J
47k Ω → 47 × 10³ → 473 RD1/4PS

4	7	3
---	---	---

 J
0.5 Ω → 0R5 RN2H

0	R	5
---	---	---

 K
1 Ω → 010 RS1P

0	1	0
---	---	---

 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 × 10¹ → 5621 RN1/4SR

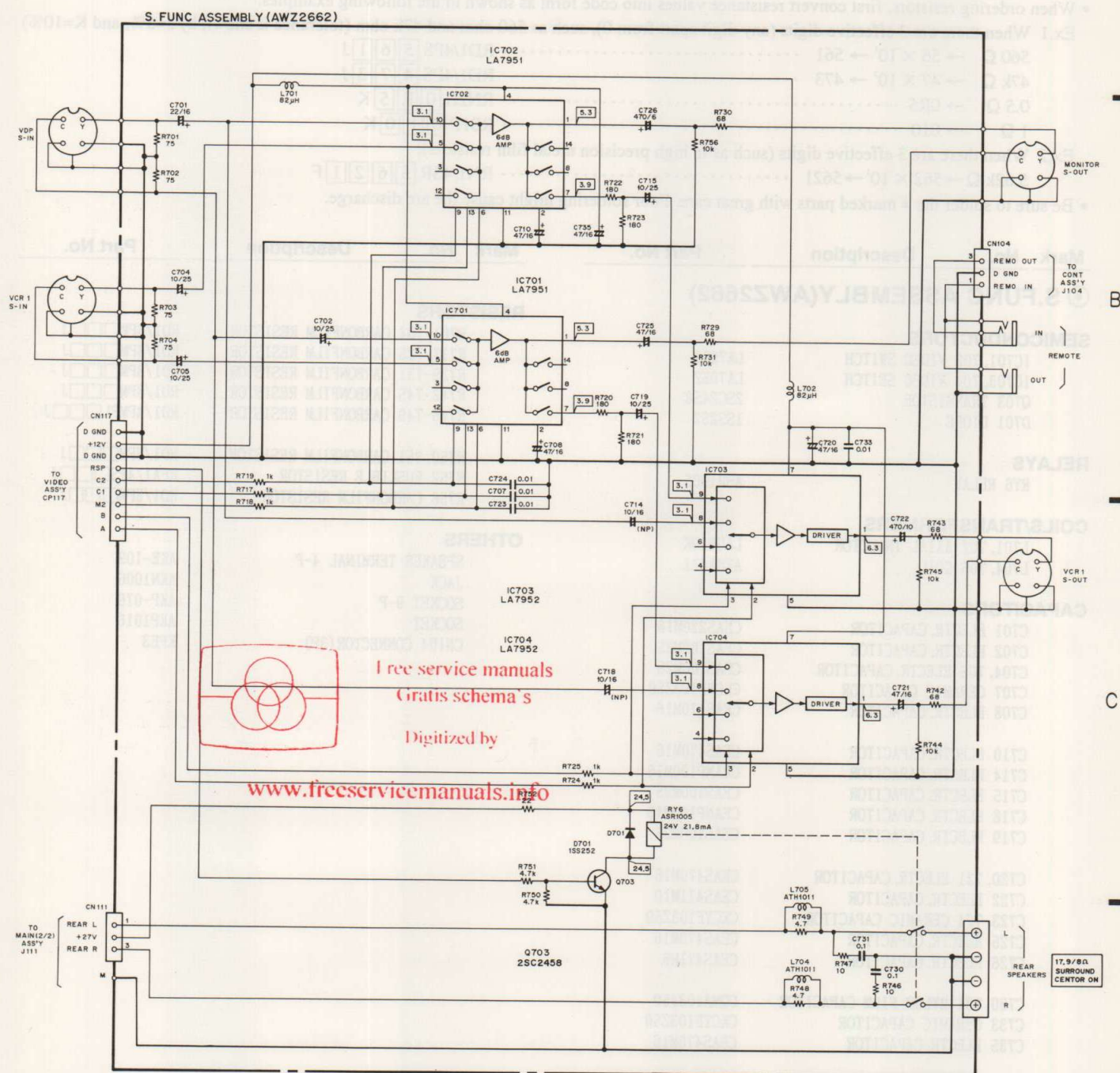
5	6	2	1
---	---	---	---

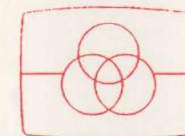
 F
- Be sure to solder the * marked parts with great care. Poor soldering might cause the arc discharge.

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
◎ S.FUNC ASSEMBLY(AWZ2662)							
SEMICONDUCTORS				RESISTORS			
	IC701,702	VIDEO SWITCH	LA7951		R701-704	CARBONFILM RESISTOR	RD1/8PM□□□J
	IC703,704	VIDEO SEITCH	LA7952		R717-725	CARBONFILM RESISTOR	RD1/8PM□□□J
	Q703	TRANSISTOR	2SC2458		R729-731	CARBONFILM RESISTOR	RD1/8PM□□□J
	D701	DIODE	1SS252		R742-745	CARBONFILM RESISTOR	RD1/8PM□□□J
					R746-749	CARBONFILM RESISTOR	RD1/4PMFL□□□J
RELAYS					R750,751	CARBONFILM RESISTOR	RD1/8PM□□□J
	RY6	RELAY	ASR1005		R752	FUSLIBLE RESISTOR	RFA1/4PS□□□J
					R756	CARBONFILM RESISTOR	RD1/8PM□□□J
COILS/TRANSFORMERS				OTHERS			
	L701,702	AXIAL INDUCTOR	LAU820K		SPEAKER TERMINAL 4-P		AKE-109
	L704,705	COIL	ATH1011		JACK		AKN1006
CAPACITORS					SOCKET 9-P		AKP-076
	C701	ELECTR. CAPACITOR	CEAS220M16		SOCKET		AKP1016
	C702	ELECTR. CAPACITOR	CEAS100M25		CN104	CONNECTOR (3P)	KPE3
	C704,705	ELECTR. CAPACITOR	CEAS100M25				
	C707	CERAMIC CAPACITOR	CKCYF103Z50				
	C708	ELECTR. CAPACITOR	CEAS470M16				
	C710	ELECTR. CAPACITOR	CEAS470M16				
	C714	ELECTR. CAPACITOR	CEANP100M16				
	C715	ELECTR. CAPACITOR	CEAS100M25				
	C718	ELECTR. CAPACITOR	CEANP100M16				
	C719	ELECTR. CAPACITOR	CEAS100M25				
	C720,721	ELECTR. CAPACITOR	CEAS470M16				
	C722	ELECTR. CAPACITOR	CEAS471M10				
	C723,724	CERAMIC CAPACITOR	CKCYF103Z50				
	C725	ELECTR. CAPACITOR	CEAS470M16				
	C726	ELECTR. CAPACITOR	CEAS471M6				
	C730,731	MYLOR FILM CAPACITOR	CQMA103J50				
	C733	CERAMIC CAPACITOR	CKCYF103Z50				
	C735	ELECTR. CAPACITOR	CEAS470M16				

3. SCHEMATIC AND P.C. BOARD DIAGRAM

3.1 S. FUNC ASSEMBLY (AWZ2662)

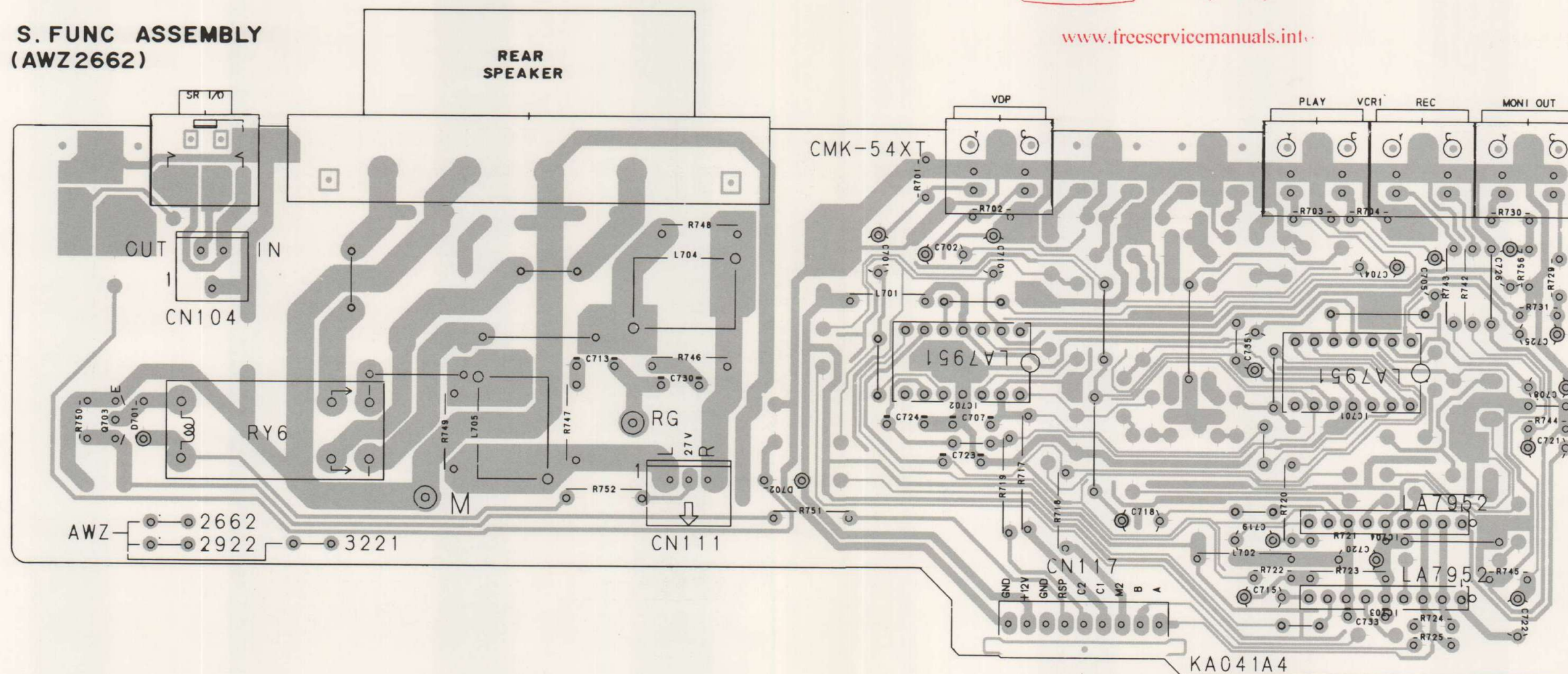




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S. FUNC ASSEMBLY (AWZ2662)



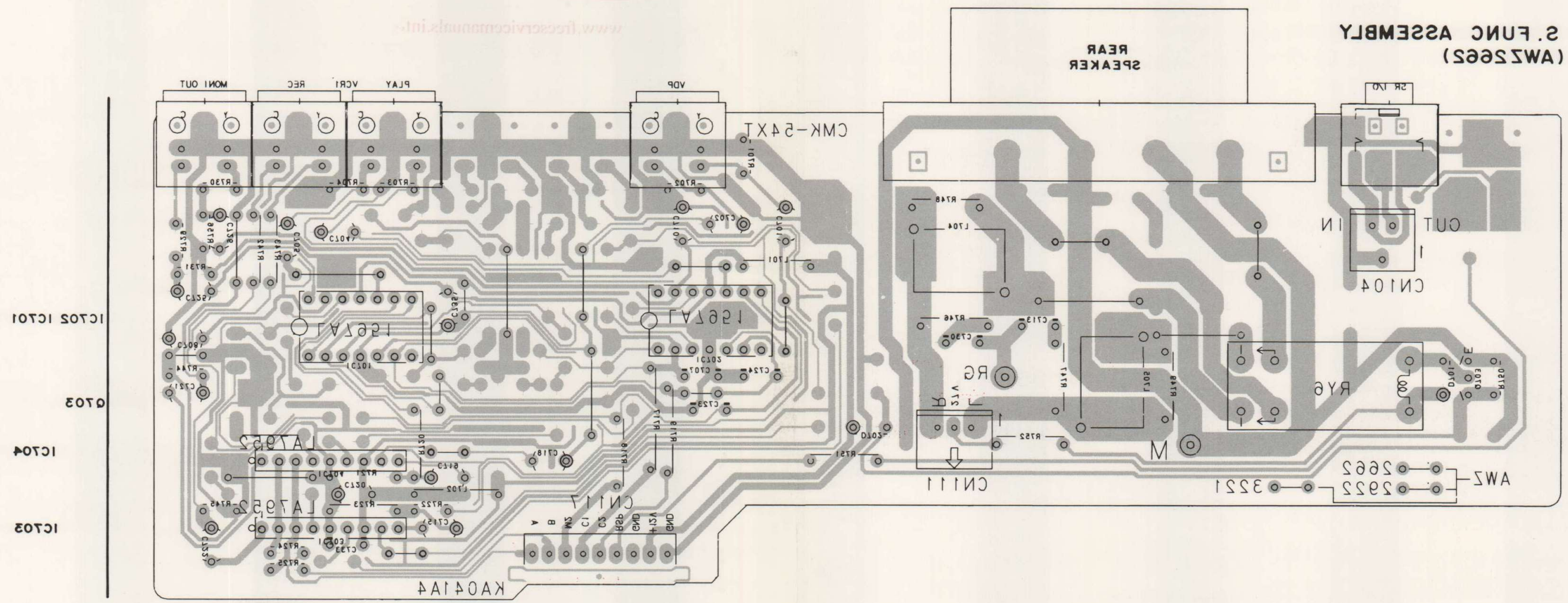
IC702 IC701

Q703

IC704

IC703

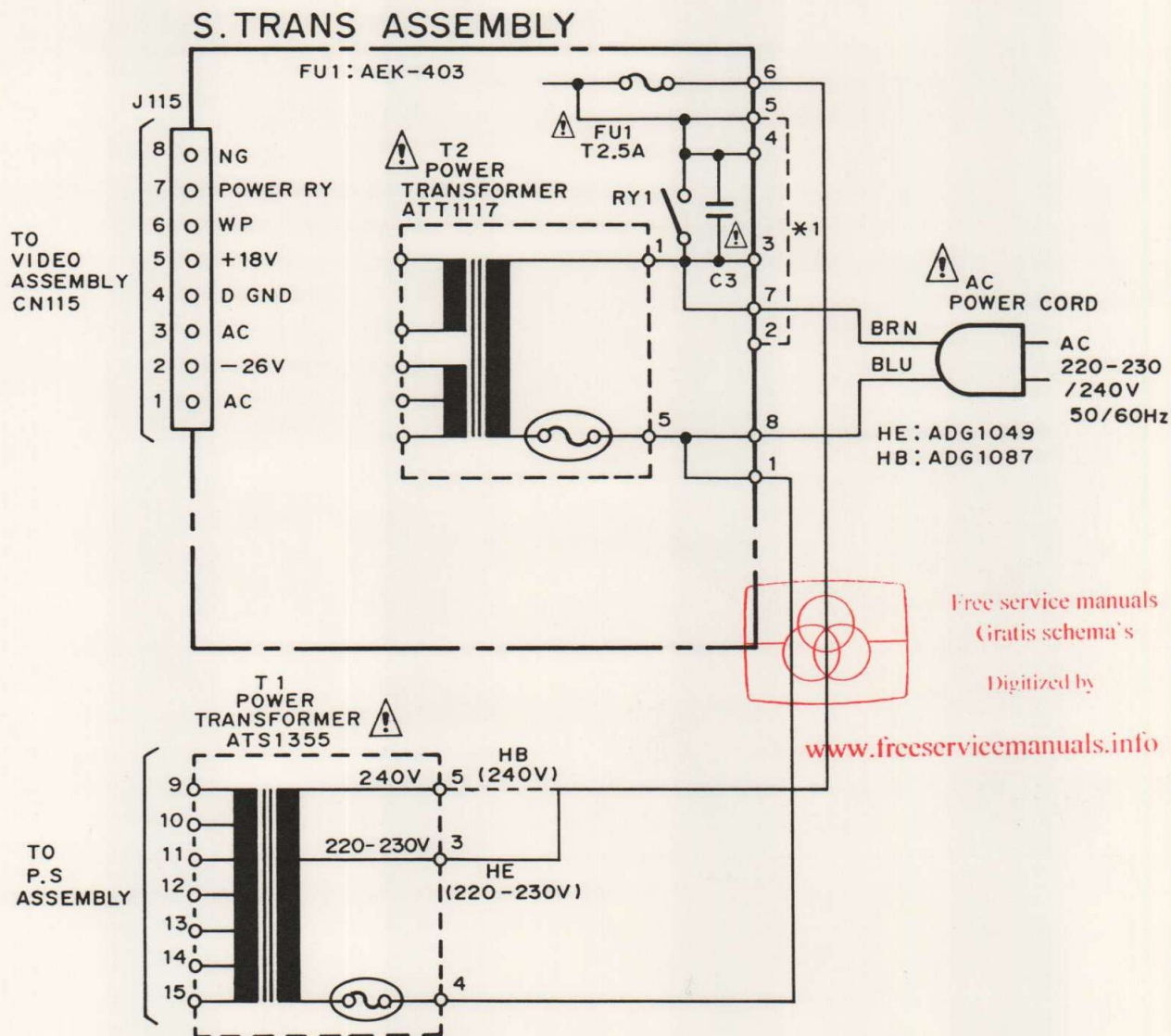
• View from soldering side



3.2 POWER SUPPLY BLOCK

- HX Pro headroom extension originated by Bang & Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY", the double-D symbol , and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

* 1. This jumper wire is connected only to HB type model according to the safety standard regulation.



Line Voltage Selection

Line voltage can be changed with the following steps.

1. Disconnect the AC power cord.
2. Remove the Bonnet case.
3. Change the connection of the power transformer lead wire.
4. Stick the line voltage label on the rear panel.

Port NO.	Description	
AXX-193	220V label	———— 220 V - 230 V
AXX-192	240V label	----- 240 V