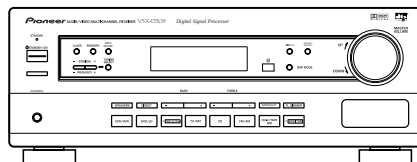


Service Manual

Pioneer



ORDER NO.
RRV2252

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D409 VSX-D309

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

Type	Model		Power Requirement	Remarks
	VSX-D409	VSX-D309		
KUXJI	○	○	AC120V	
KCXJI	○	○	AC120V	

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PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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T – ZZK JAN. 2000 Printed in Japan

1. SAFETY INFORMATION

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.

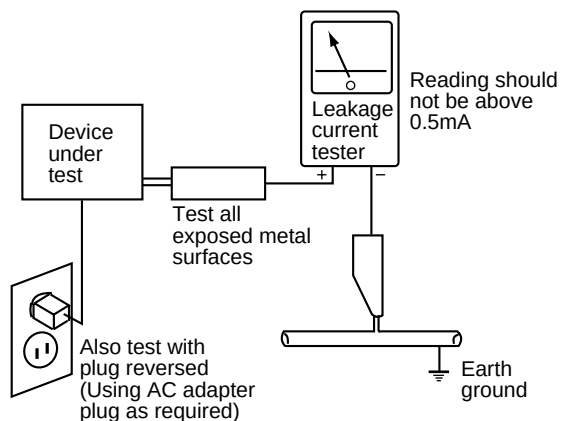
(FOR USA MODEL ONLY)

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 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



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 Δ on the schematics and on the parts list in this Service Manual.

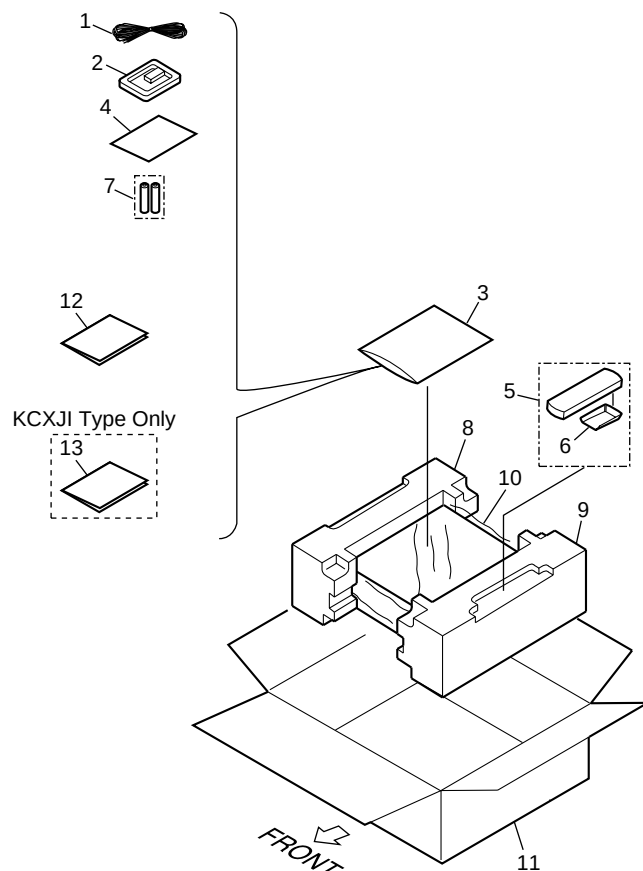
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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.

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

2.1 PACKING



(1) PACKING PARTS LIST

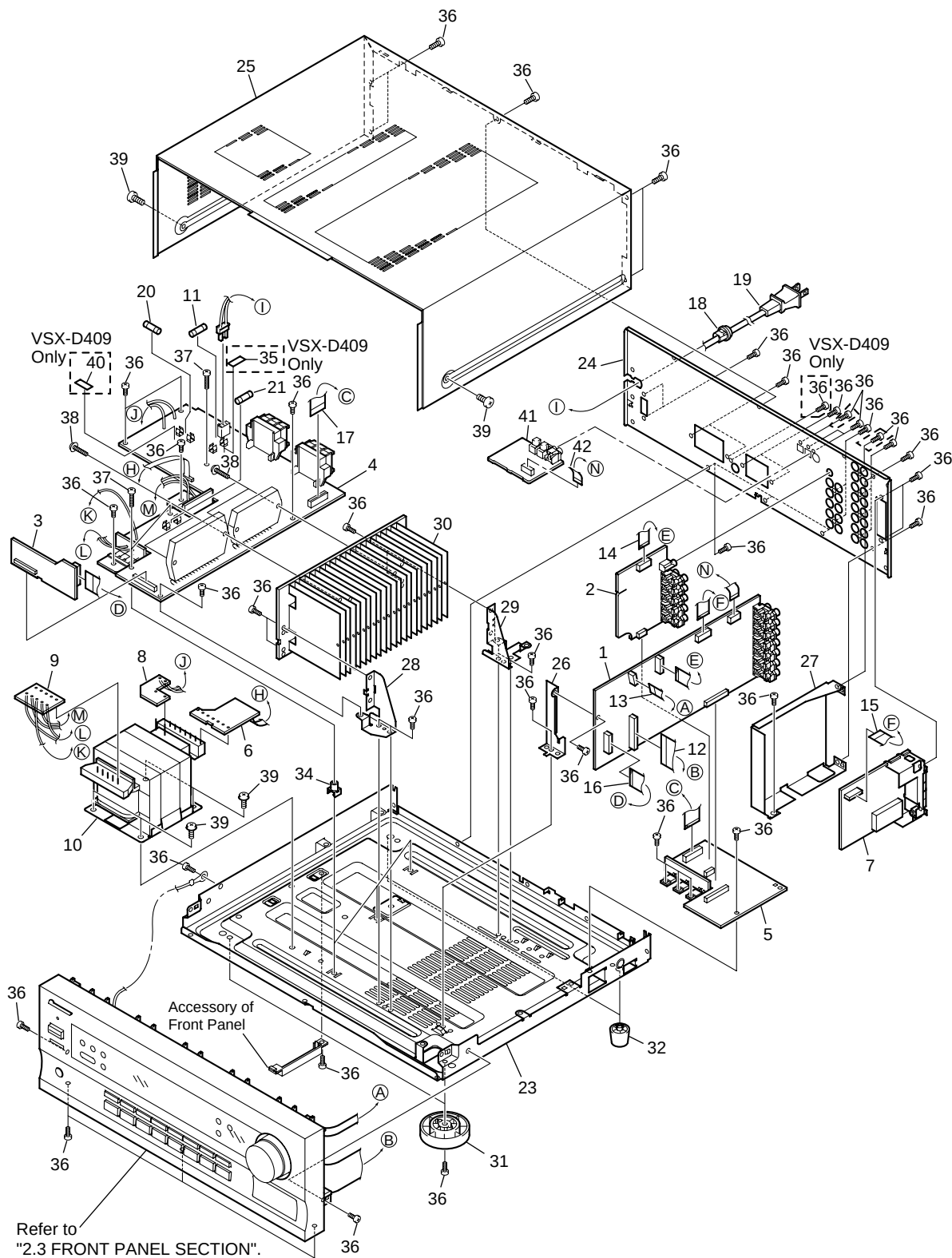
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7004
	2	AM Loop Antenna	ATB7009
	3	Polyethylene Bag (0.03 × 230 × 340)	Z21-038
NSP	4	Warranty Card	See Contrast table (2)
	5	Remote Control Unit	AXD7246
NSP	6	Battery Cover	AZA7378
	7	Dry Cell Battery (R6P, AA)	VEM-013
	8	Left Pad	AHA7275
	9	Right Pad	AHA7276
	10	Packing Sheet	AHG7069
	11	Packing Case	See Contrast table (2)
	12	Operating Instructions (English)	See Contrast table (2)
	13	Operating Instructions (French)	See Contrast table (2)

(2) CONTRAST TABLE

VSX-D409/KUXJI, KCXJI, VSX-D309/KUXJI and KCXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-D409 /KUXJI	VSX-D409 /KCXJI	VSX-D309 /KUXJI	VSX-D309 /KCXJI	
NSP	4	Warranty Card	ARY7023	ARY7024	ARY7023	ARY7024	
	11	Packing Case	AHD7823	AHD7823	AHD7822	AHD7822	
	12	Operating Instructions (English)	ARB7219	ARB7219	ARB7214	ARB7214	
	13	Operating Instructions (French)	Not used	ARC7289	Not used	ARC7272	

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

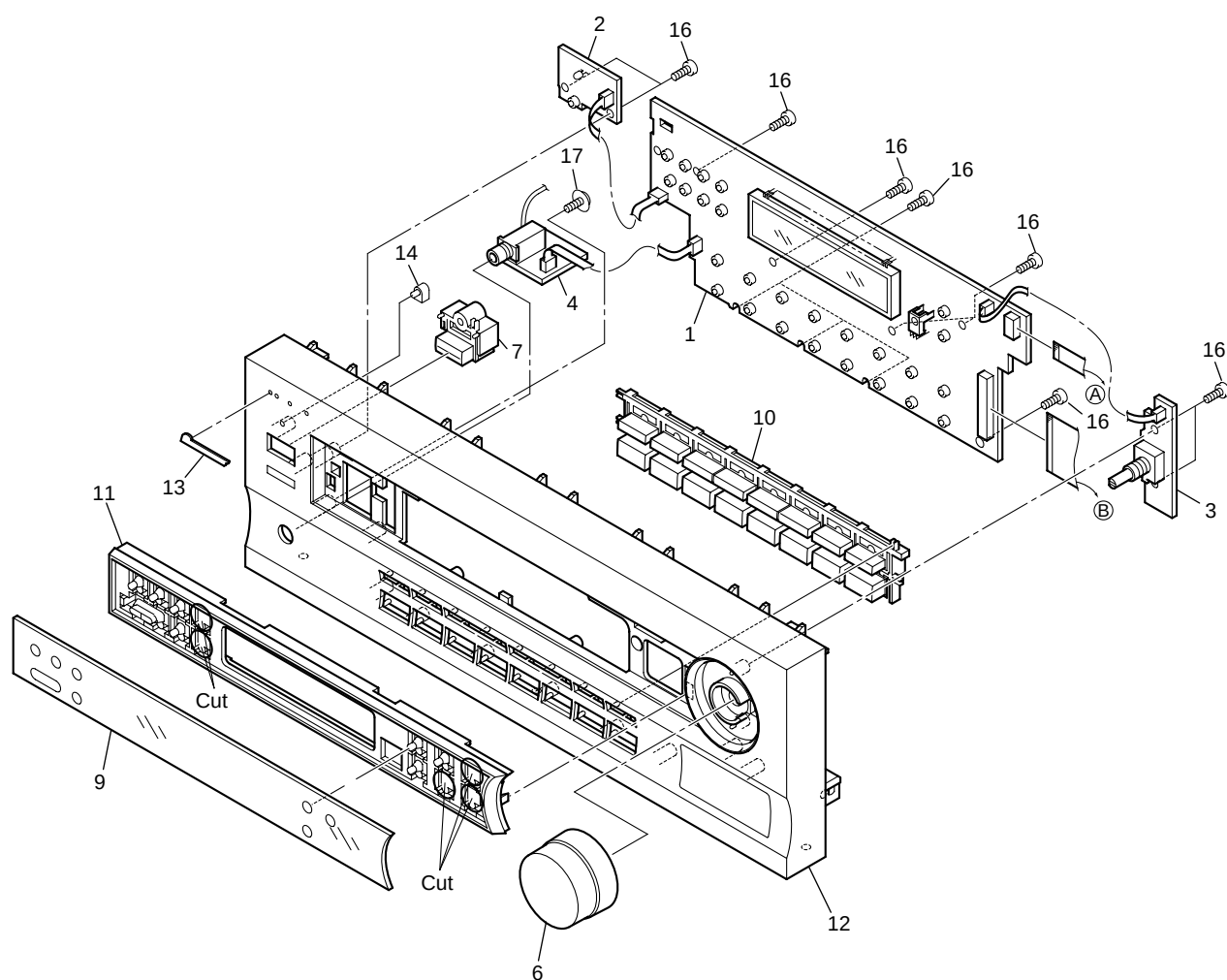
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	D.D & INPUT Assy	See Contrast table (2)	△	21	Fuse (FU701 : 10A)	REK1087
	2	VIDEO&6CH IN Assy	AWX7474	•••••	22		
	3	AMP INPUT Assy	AWX7382	NSP	23	Under Base 409	ANA7094
	4	AMP&PRIMARY Assy	See Contrast table (2)	24	Rear Panel	See Contrast table (2)	
	5	REGULATOR Assy	See Contrast table (2)	25	Bonnet Case	AZN7818	
NSP	6	TRANS 2 Assy	AWX7468	26	PCB Angle	ANG7253	
	7	FM/AM TUNER Unit	AXX7046	27	Shield R3	ANG7277	
	8	TRANS 1 Assy	AWX7390	28	Heat Sink Angle F	ANG7251	
NSP	9	TRANS 3 Assy	AWX7392	29	Heat Sink Angle R	ANG7252	
△	10	Power Transformer (AC120V)	See Contrast table (2)	NSP	30	Heat Sink 0.4	See Contrast table (2)
△	11	Fuse (FU1)	See Contrast table (2)	31	Insulator	AMR7198	
	12	FFC (J31 : 32P/180 BD 60V) (D.D & INPUT CN102 ↔ FRONT CN402)	ADD7222	32	Foot Assy	REC1263	
	13	FFC (J32 : 19P/200 BD 60V) (D.D & INPUT CN103 ↔ FRONT CN401)	ADD7221	33	•••••		
	14	FFC (J33 : 13P/200 BD 60V) (D.D & INPUT CN104 ↔ VIDEO&6CH IN CN303)	ADD7220	34	PCB Mold	AMR2533	
	15	FFC (J34 : 13P/80 BD 60V) (D.D & INPUT CN105 ↔ FM/AM TUNER CN1)	ADD7189	35	Fuse Card	See Contrast table (2)	
	16	FFC (J35 : 17P/90 BD 60V) (D.D & INPUT CN106 ↔ AMP INPUT CN290)	ADD7219	36	Screw	BBZ30P080FMC	
	17	FFC (J36 : 22P/80 BD 60V) (REGULATOR CN801 ↔ AMP&PRIMARY CN53)	ADD7224	37	Screw	BBZ30P200FMC	
	18	Strain Relief	CM-22C	38	Screw	ABA7043	
	19	AC Power Cord	ADG7024	39	Screw	FBT40P080FZK	
△	20	Fuse (FU2)	See Contrast table (2)	NSP	40	Fuse Card	See Contrast table (2)
△				41	DIGITAL IN Assy	See Contrast table (2)	
				42	FFC (J37 : 6P/150 BD 60V) (D.D & INPUT CN1501 ↔ DIGITAL IN CN1901)	ADD7223	

(2) CONTRAST TABLE

VSX-D409/KUXJI, KCXJI, VSX-D309/KUXJI and KCXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-D409 /KUXJI	VSX-D409 /KCXJI	VSX-D309 /KUXJI	VSX-D309 /KCXJI	
△	1	D.D & INPUT Assy	AWX7649	AWX7649	AWX7494	AWX7494	
	4	AMP&PRIMARY Assy	AWX7480	AWX7480	AWX7506	AWX7506	
	5	REGULATOR Assy	AWX7467	AWX7467	AWX7493	AWX7493	
	10	Power Transformer (AC120V)	ATS7264	ATS7264	ATS7263	ATS7263	
	11	Fuse (FU1 : 10A)	REK1087	REK1087	Not used	Not used	
△	11	Fuse (FU1 : 6.3A)	Not used	Not used	REK1069	REK1069	
△	20	Fuse (FU2 : 8A)	REK1086	REK1086	Not used	Not used	
△	20	Fuse (FU2 : 5A)	Not used	Not used	REK1067	REK1067	
NSP	24	Rear Panel	ANC7887	ANC7886	ANC7884	ANC7885	
	30	Heat Sink 0.4	ANH7109	ANH7109	Not used	Not used	
	30	Heat Sink 0.4*50	Not used	Not used	ANH7123	ANH7123	
NSP	35	Fuse Card	AXX7096	AXX7096	Not used	Not used	
NSP	40	Fuse Card	AXX2332	AXX2332	Not used	Not used	
	41	DIGITAL IN Assy	AWX7505	AWX7505	AWX7476	AWX7476	

2.3 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP NSP	1	FRONT Assy	See Contrast table (2)		11	Sub Panel	AAD7552
	2	POWER SW Assy	AWX7385		12	F Panel	See Contrast table (2)
	3	R. ENCODER Assy	AWX7386		13	Name Plate	PAM1776
	4	H.P. Assy	AWX7556		14	LED Lens	PNW2019
	5	•••••			15	•••••	
	6	Volume Knob	AAB7179		16	Screw	PPZ30P080FMC
	7	Power Button	AAD7440		17	Screw	ABA7009
	8	•••••					
	9	Window	AAK7719				
	10	F Button	See Contrast table (2)				

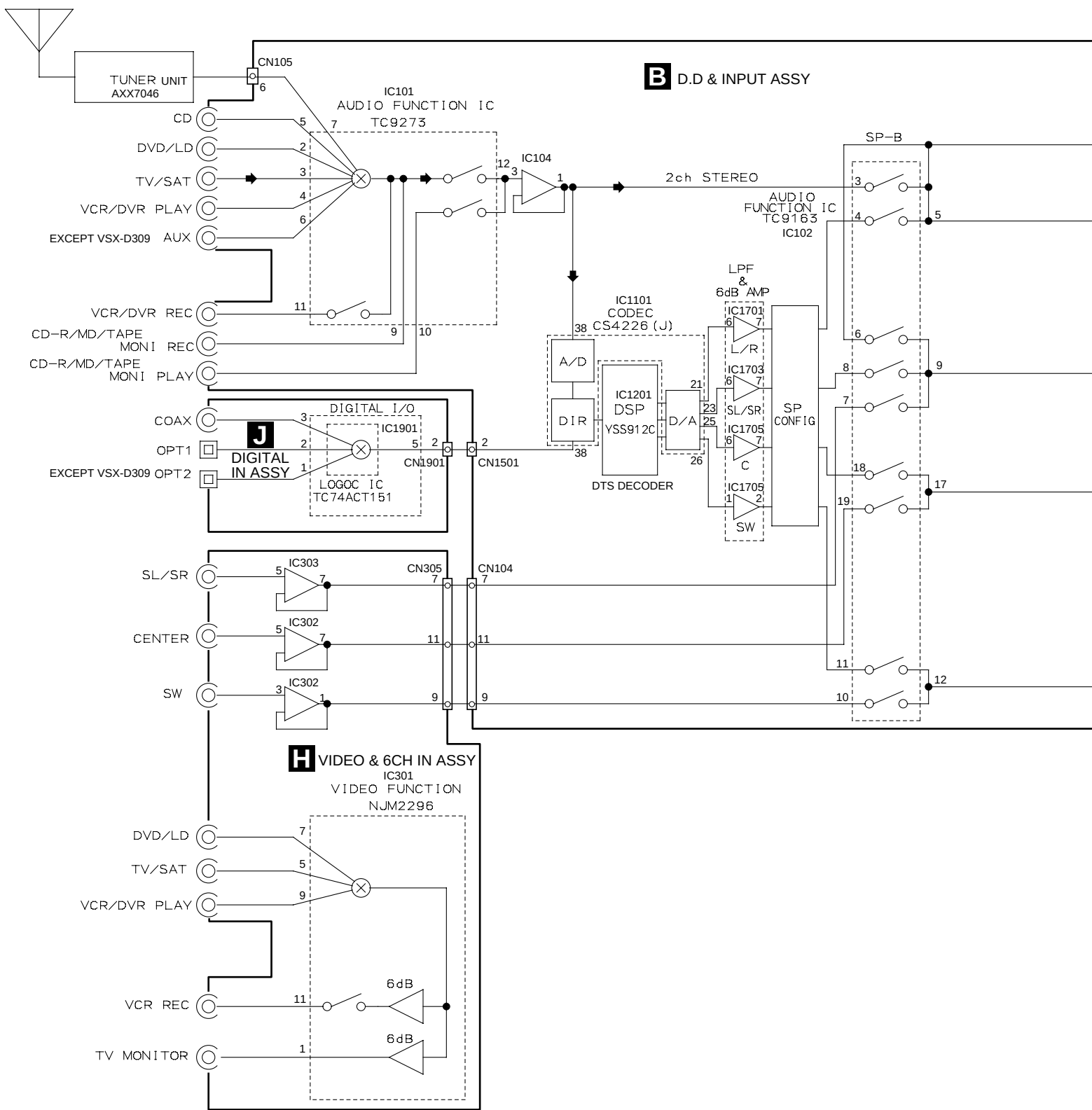
(2) CONTRAST TABLE

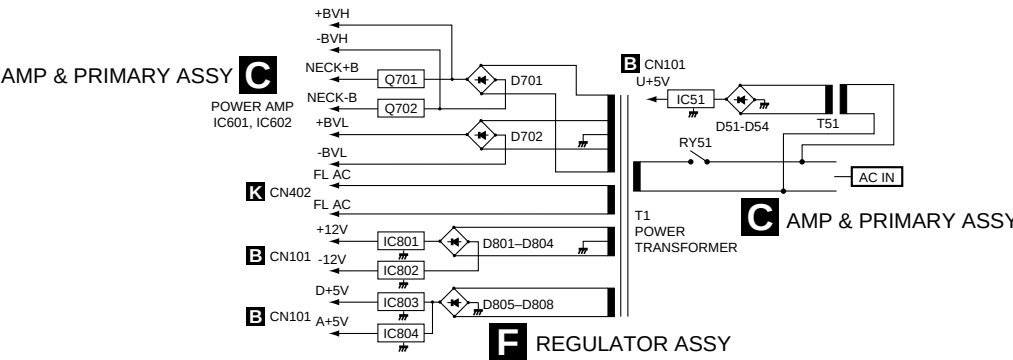
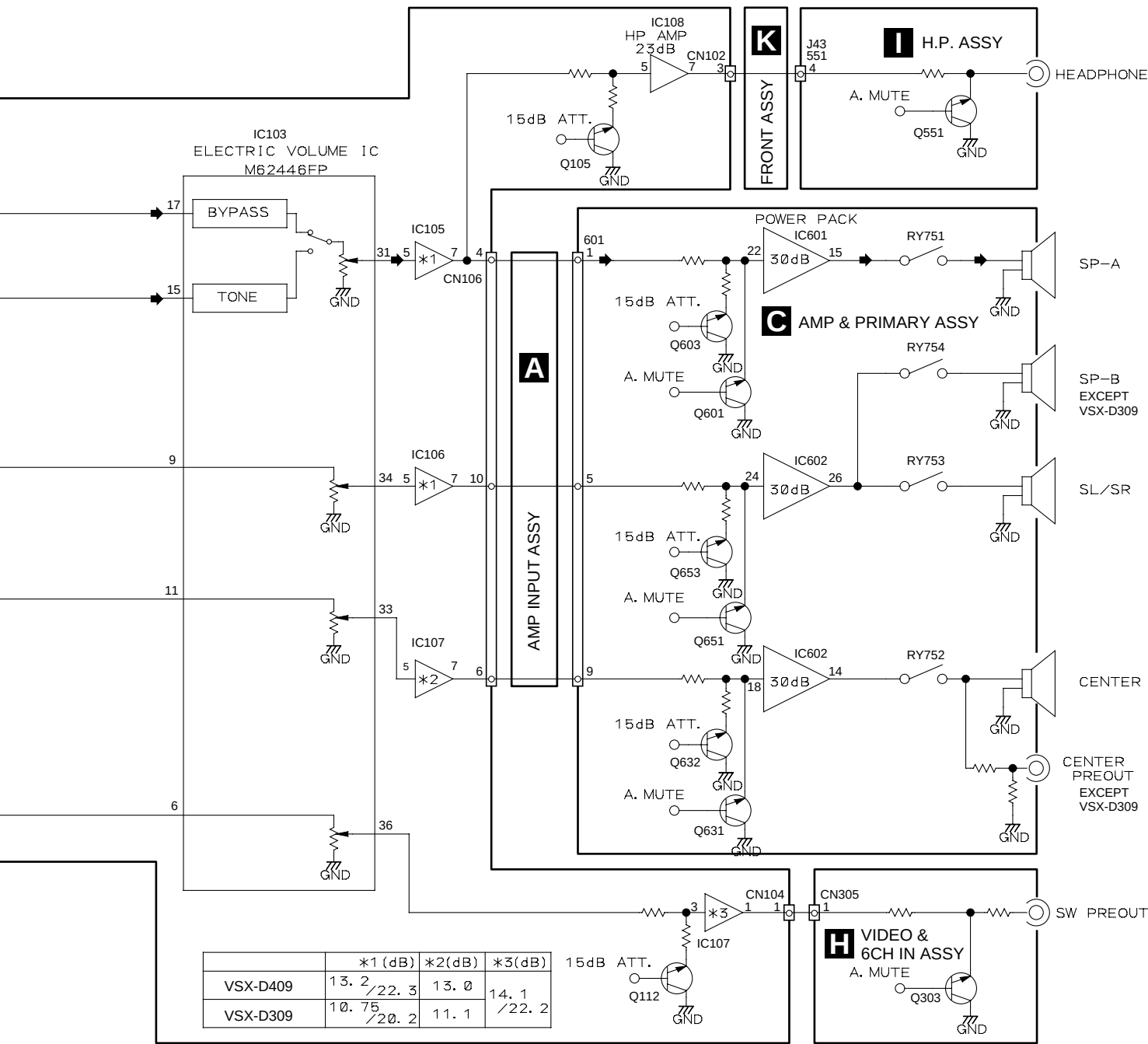
VSX-D409/KUXJI, KCXJI, VSX-D309/KUXJI and KCXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-D409 /KUXJI	VSX-D409 /KCXJI	VSX-D309 /KUXJI	VSX-D309 /KCXJI	
	1	FRONT Assy	AWX7479	AWX7479	AWX7475	AWX7475	
	10	F Button	AAD7562	AAD7562	AAD7561	AAD7561	
	12	F Panel	AMB7663	AMB7663	AMB7661	AMB7661	

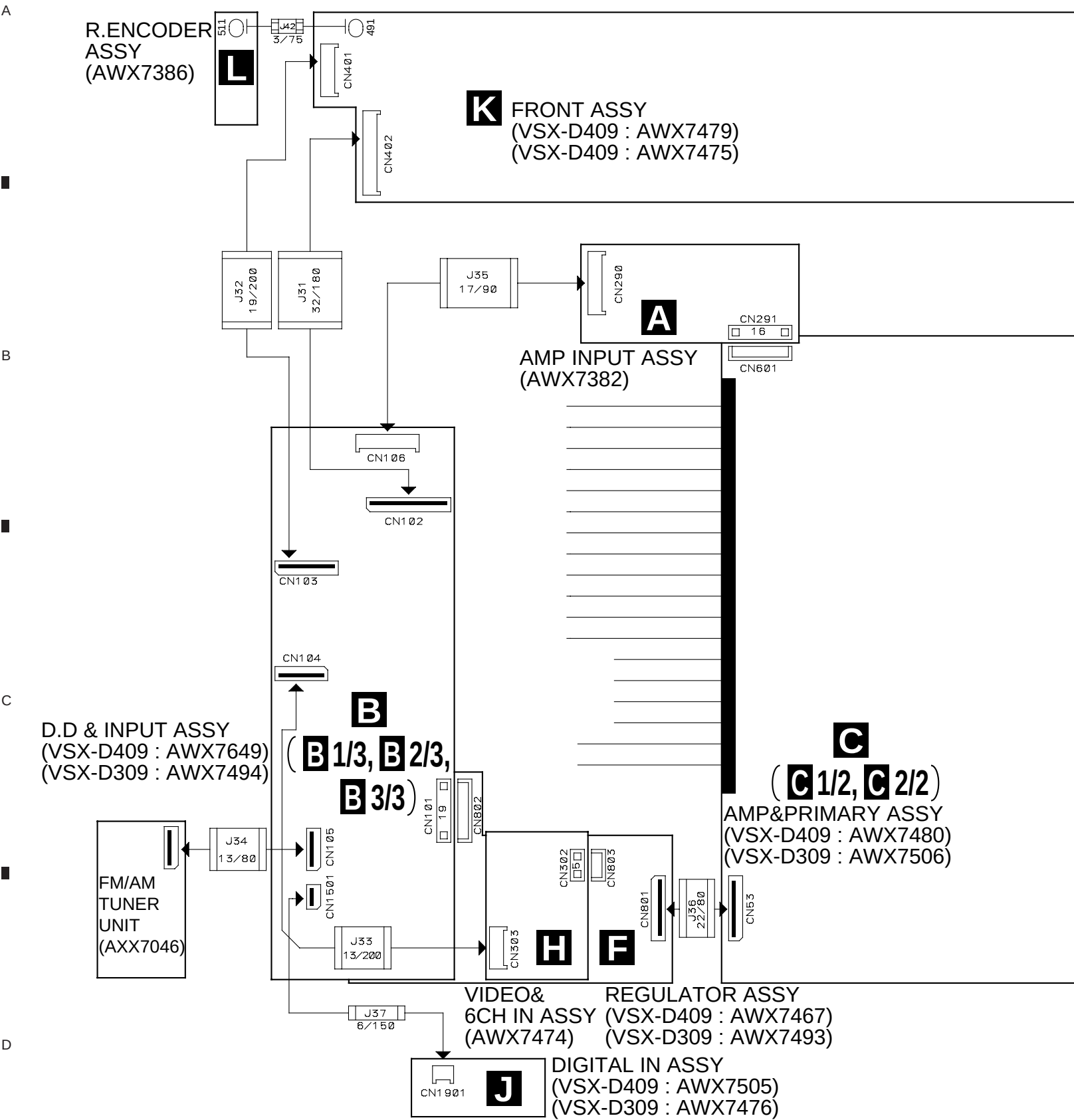
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

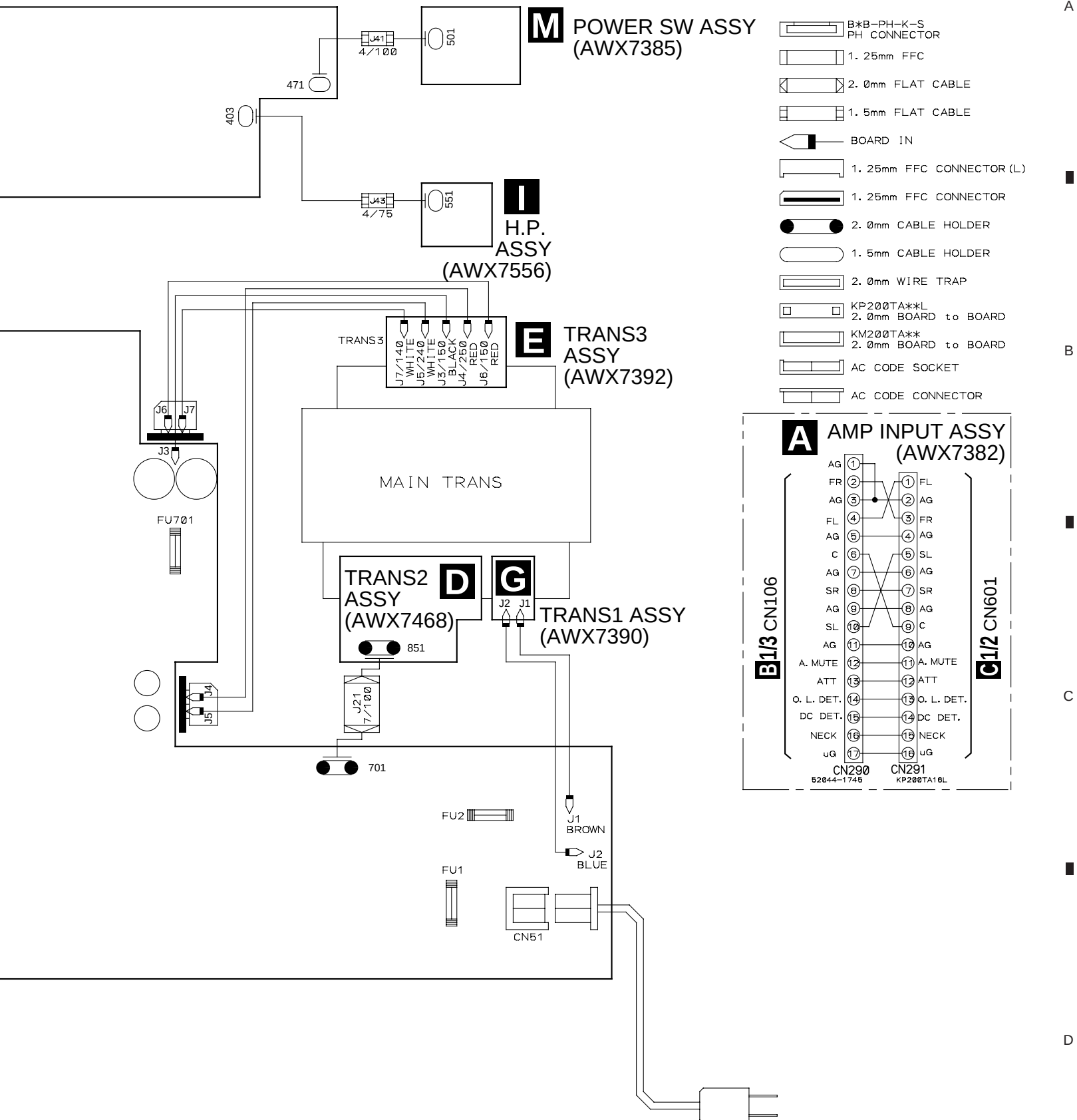




3.2 OVERALL WIRING CONNECTION DIAGRAM and AMP INPUT ASSY

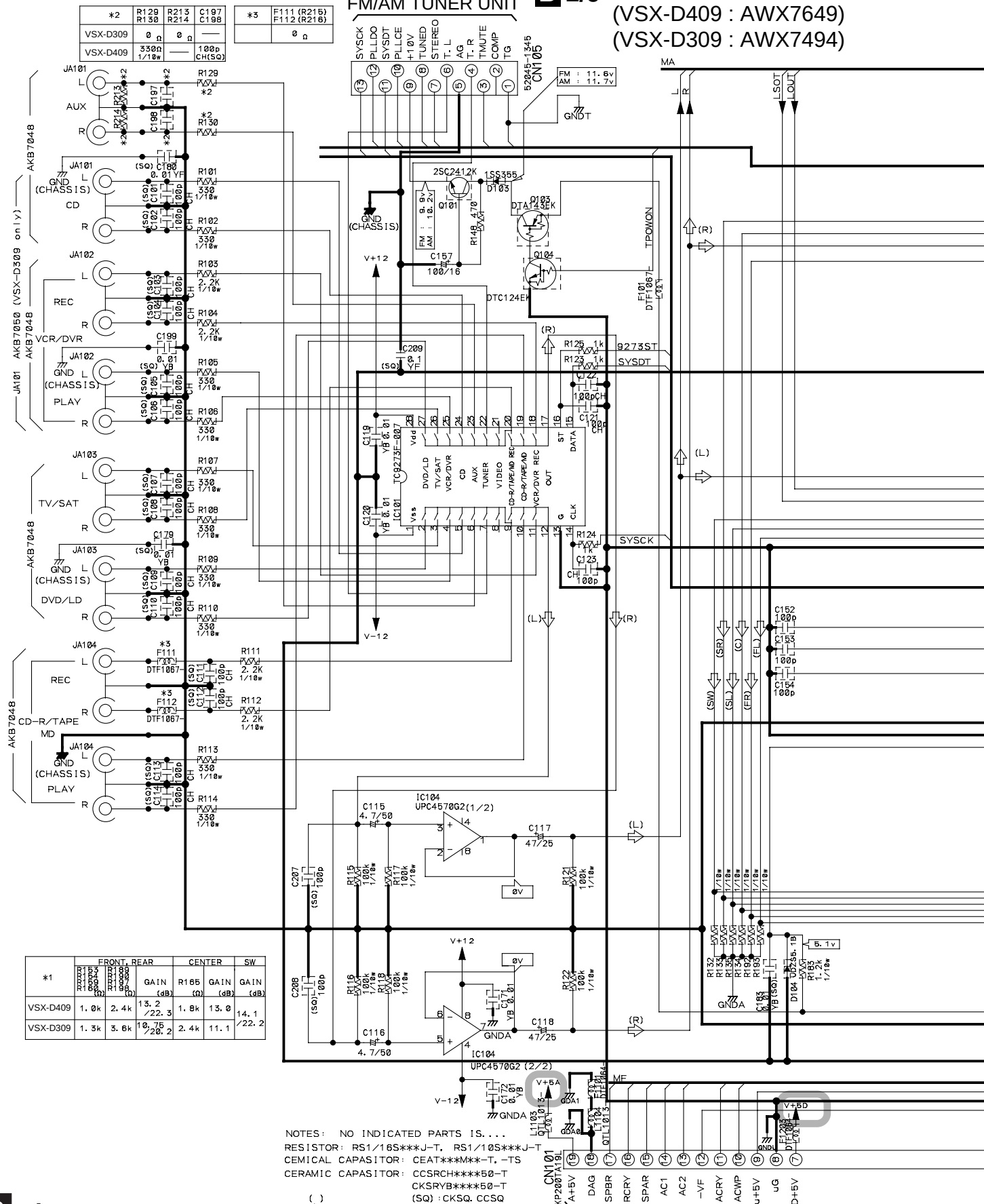


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

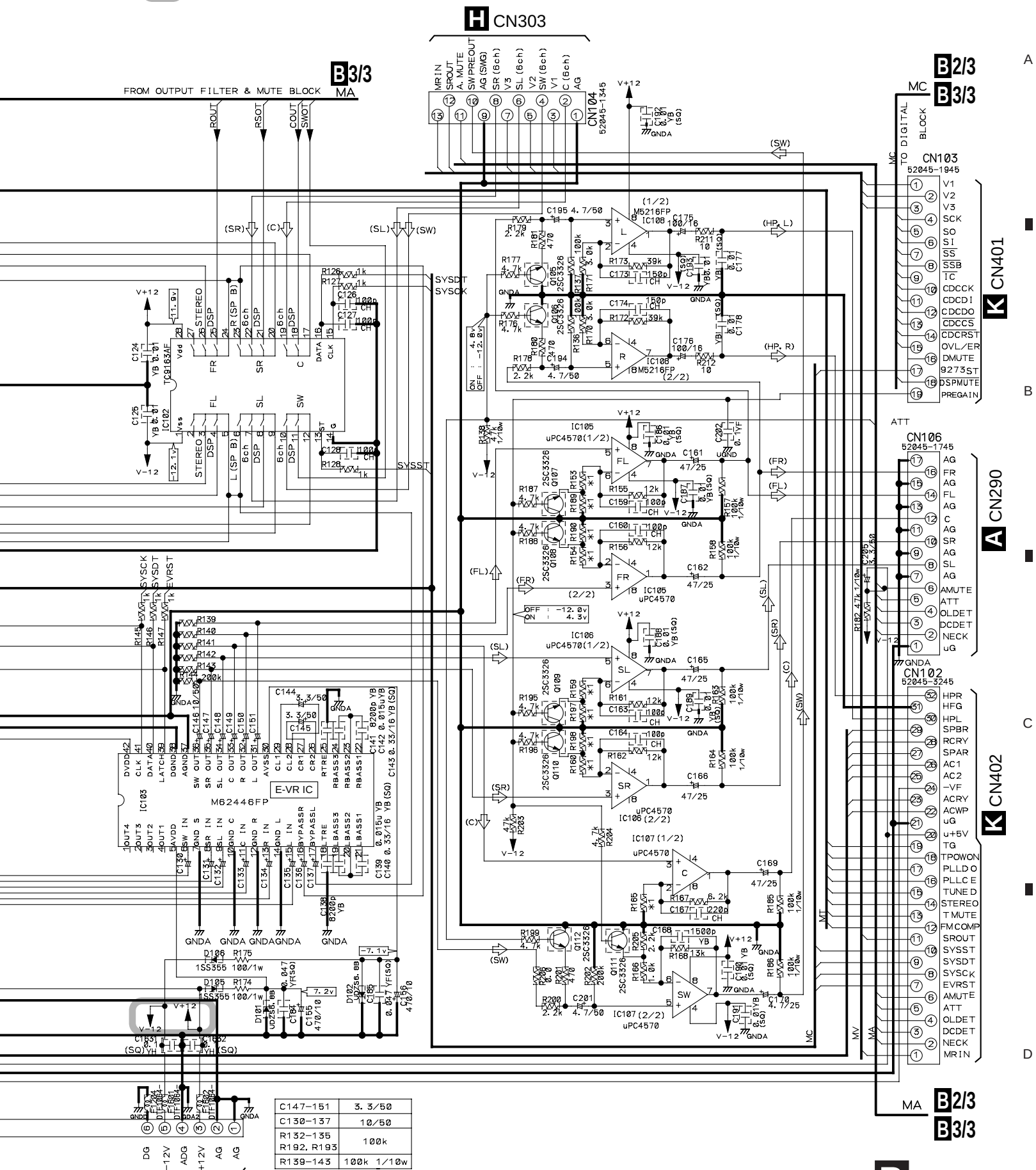


3.3 D.D & INPUT (1/3) ASSY

B1/3 D.D & INPUT ASSY
(VSX-D409 : AWX7649)
(VSX-D309 : AWX7494)



: The power supply is shown with the marked box.



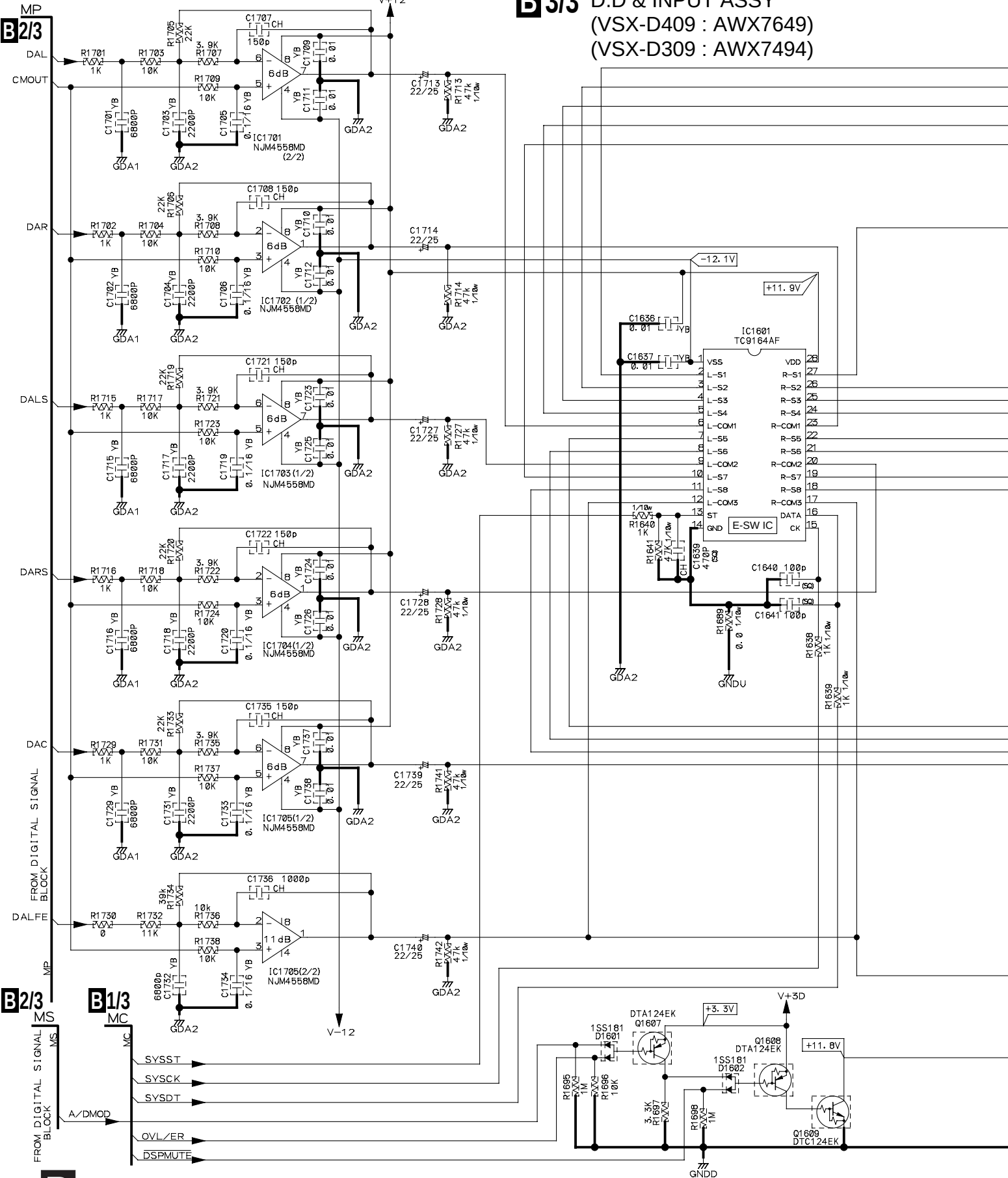
B

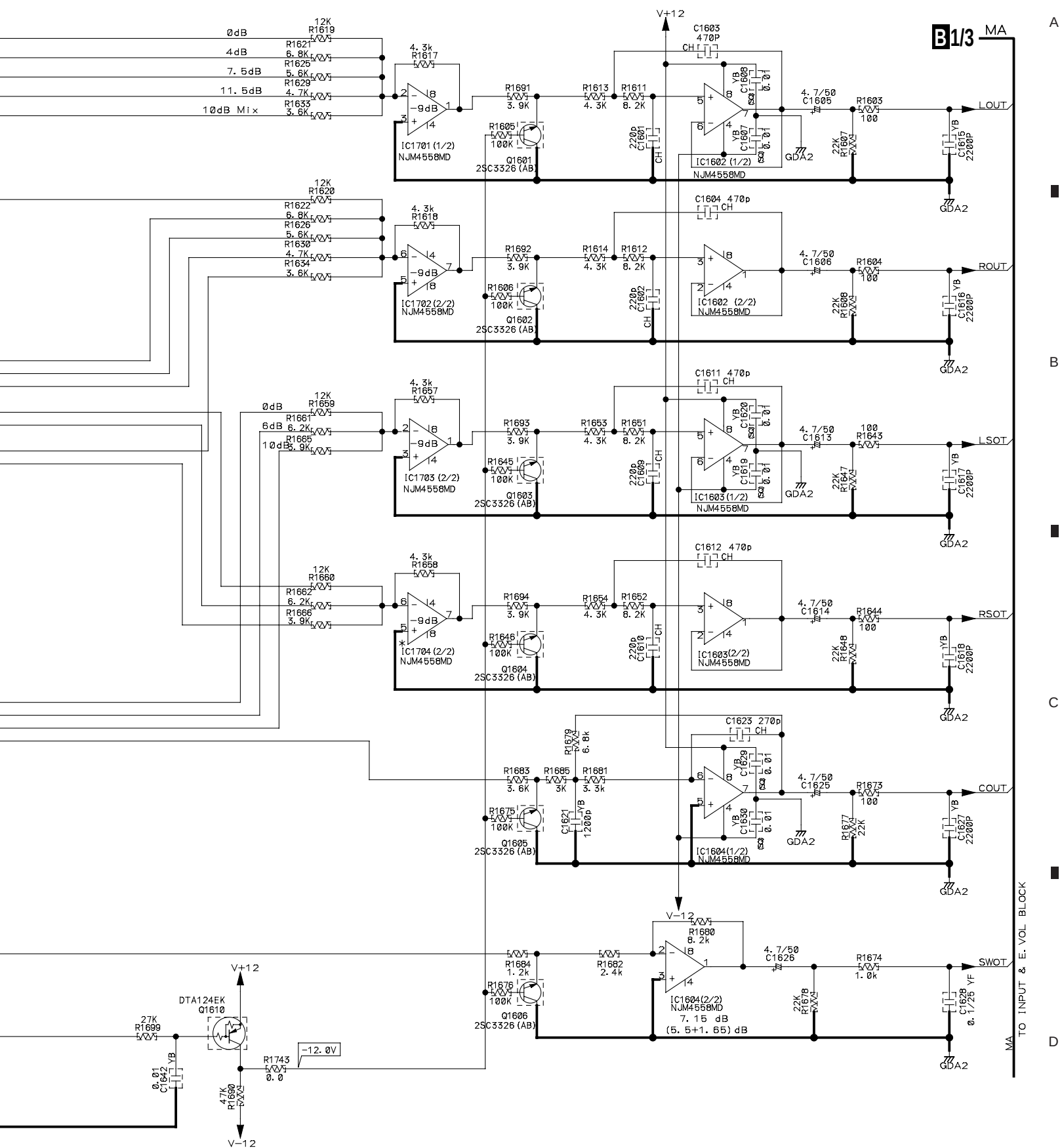


D

3.5 D.D & INPUT ASSY (3/3)

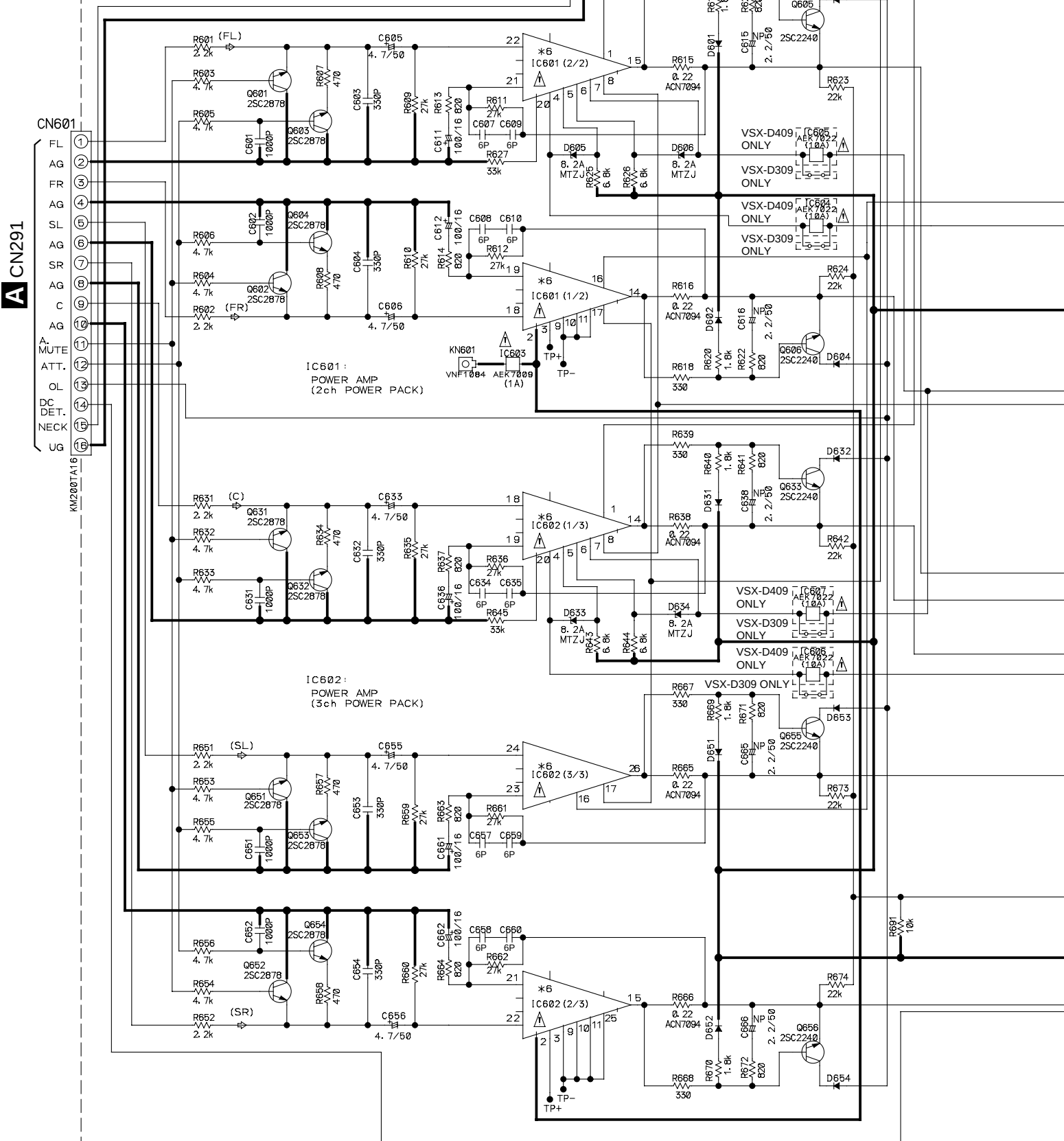
B 3/3 D.D & INPUT ASSY
(VSX-D409 : AWX7649)
(VSX-D309 : AWX7494)





3.6 AMP&PRIMARY (1/2), TRANS2 and TRANS3 ASSYS

C1/2 AMP&PRIMARY ASSY
(VSX-D407 : AWX7480) (VSX-D307 : AWX7506)



*4	R751, 752, 755 . 761, 762	100 1/4W
----	------------------------------	----------

*5	C751, 752, 755, 761, 762	0.1 YA
----	--------------------------	--------

*6		VSX-D309	VSX-D409
	IC601	PAC012A	PAC010A
	IC602	PAC013A	PAC011A

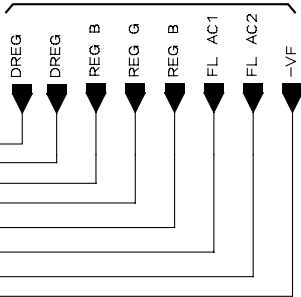


20

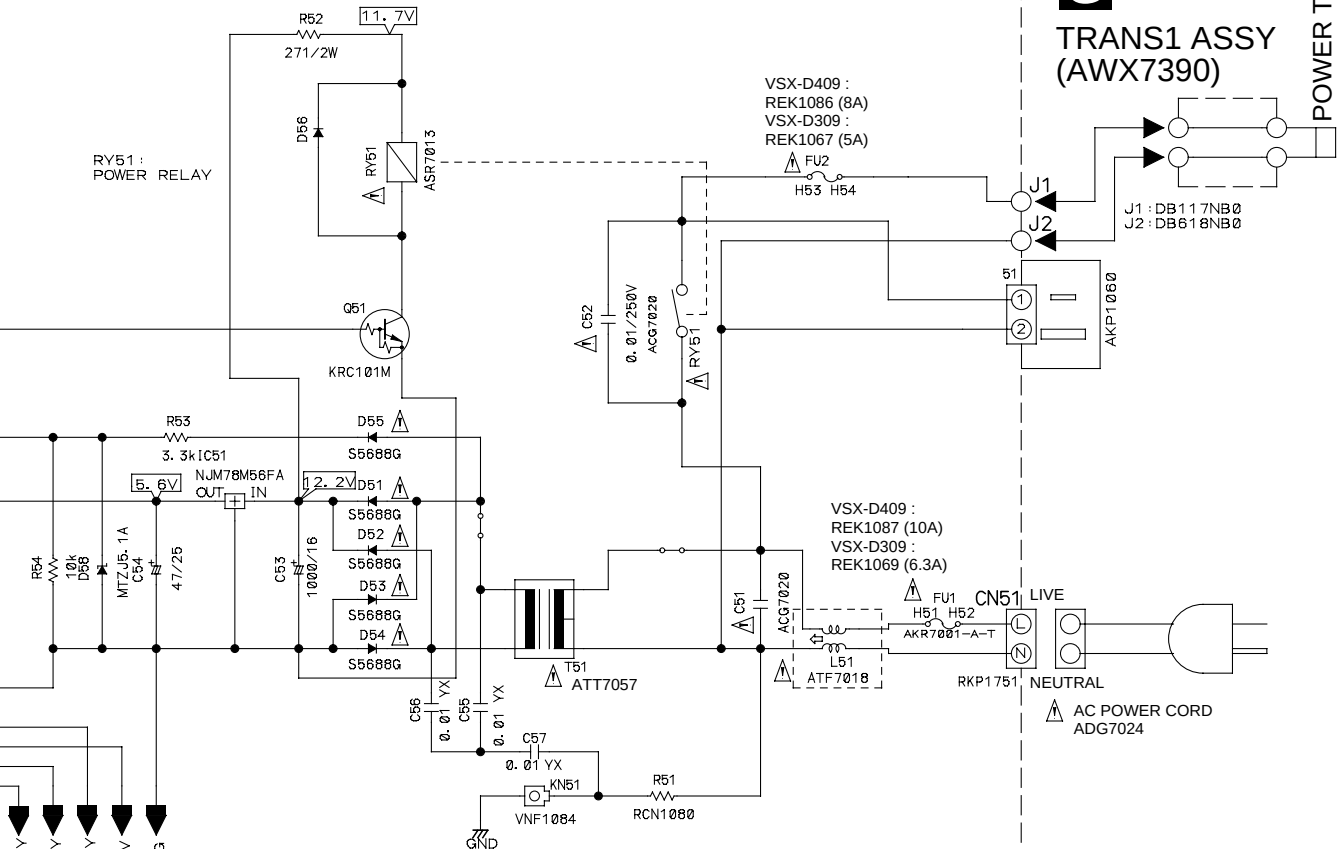


C2/2 AMP&PRIMARY ASSY
(VSX-D409 : AWX7480)
(VSX-D309 : AWX7506)

C1/2



RV51 :
POWER RELAY



C1/2

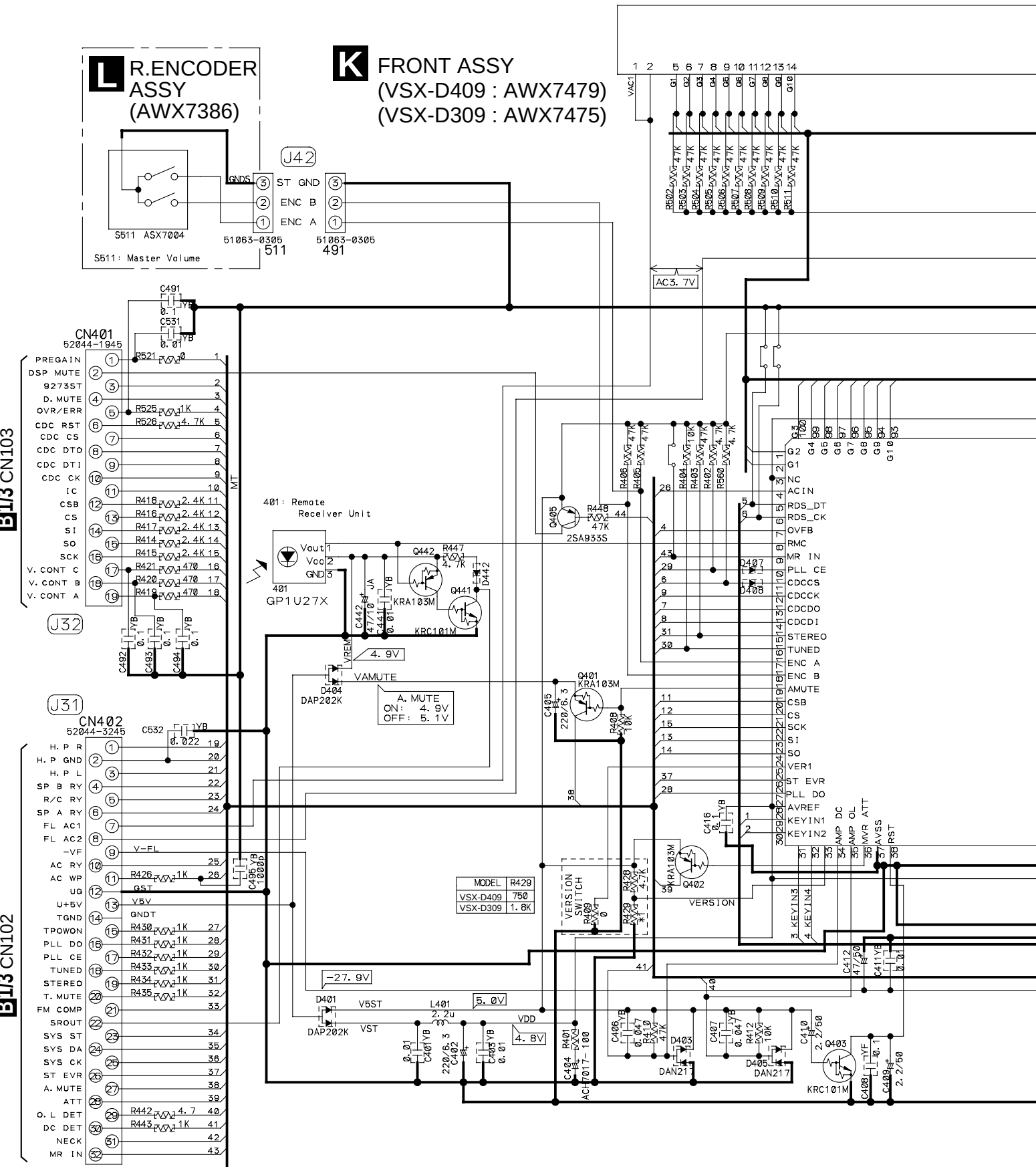
3.9 FRONT, R. ENCODER and POWER SW ASSYS

L R.ENCODER
ASSY
(AWX7386)

K FRONT ASSY
(VSX-D409 : AWX7479)
(VSX-D309 : AWX7475)

B1/3 CN103

B1/3 CN102





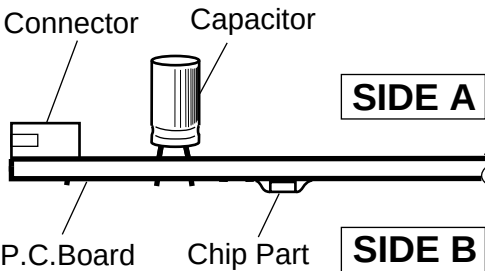
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

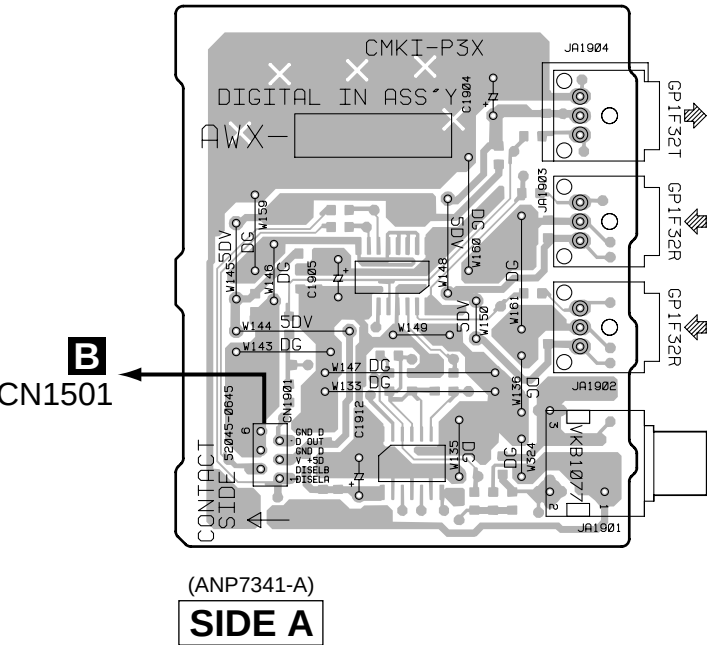
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

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

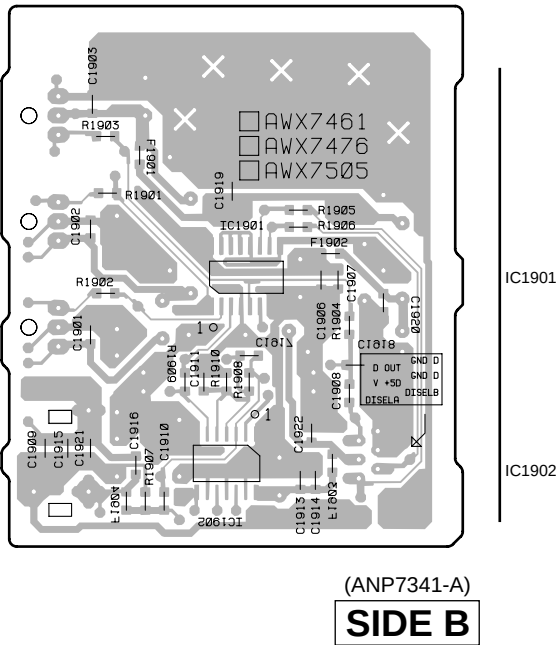


4.1 DIGITAL IN ASSY

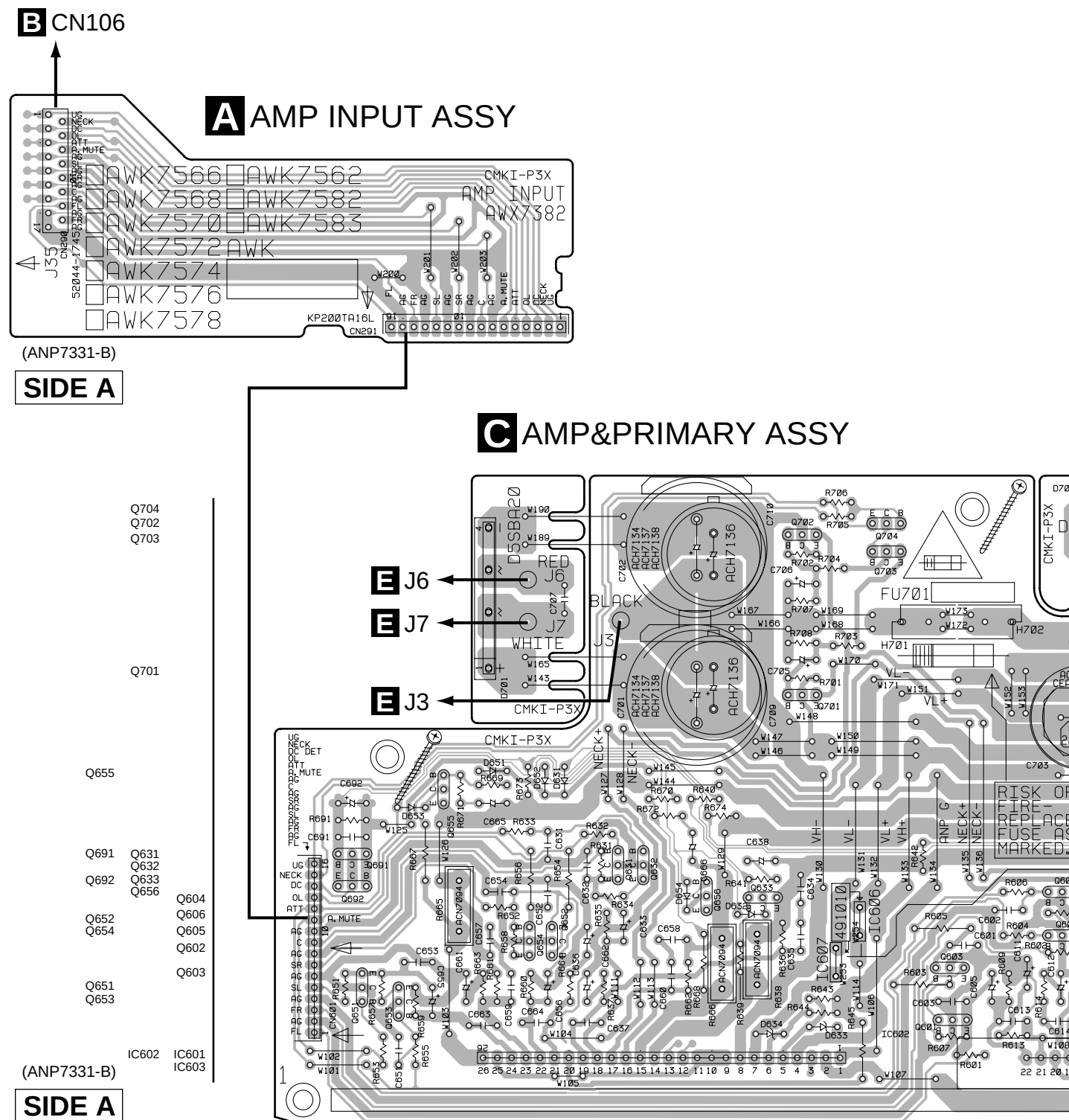
J DIGITAL IN ASSY



J DIGITAL IN ASSY



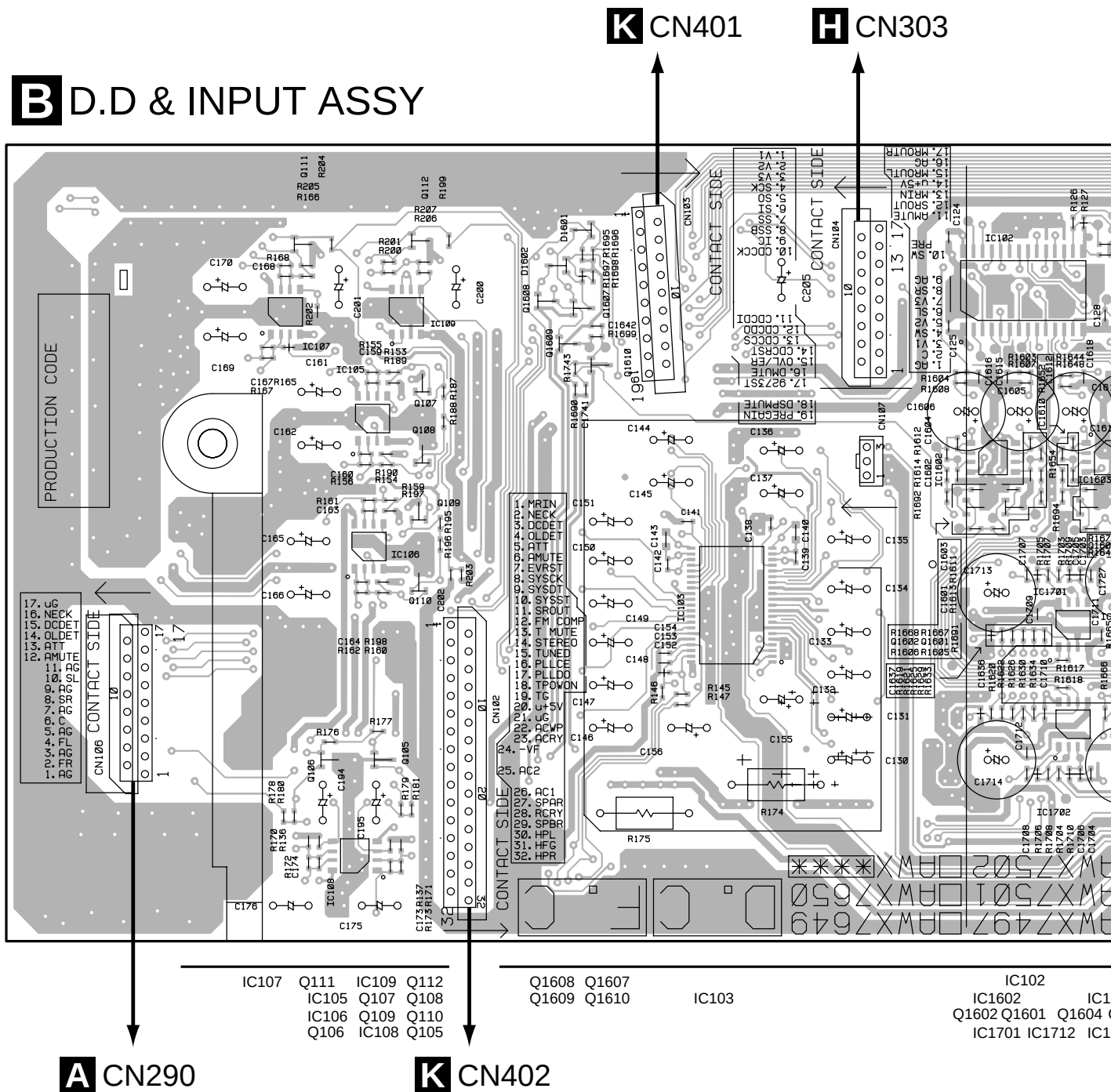
4.3 AMP INPUT and AMP&PRIMARY ASSYS



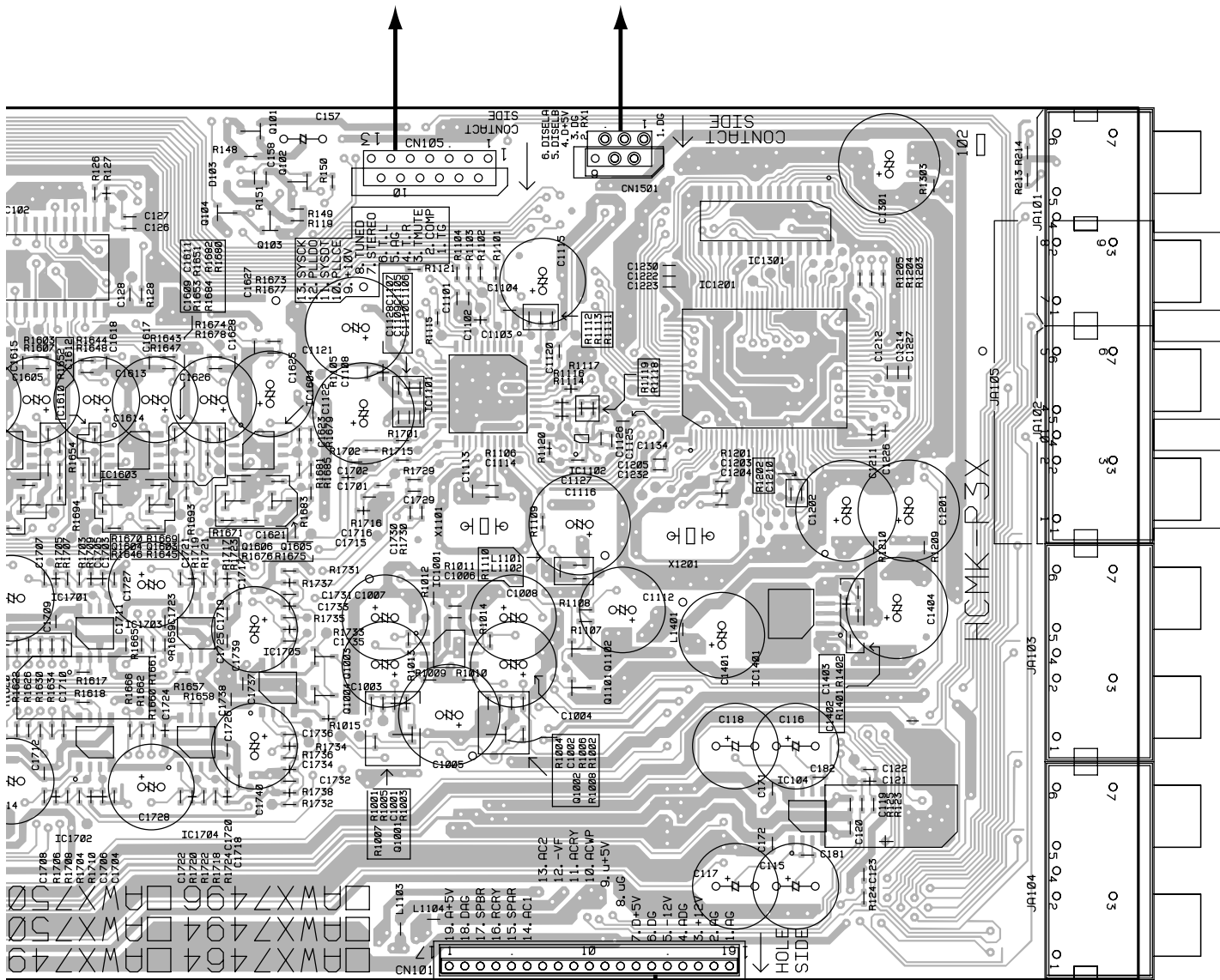


4.4 D.D & INPUT ASSY

B D.D & INPUT ASSY



FM/AM TUNER UNIT **J** CN1901

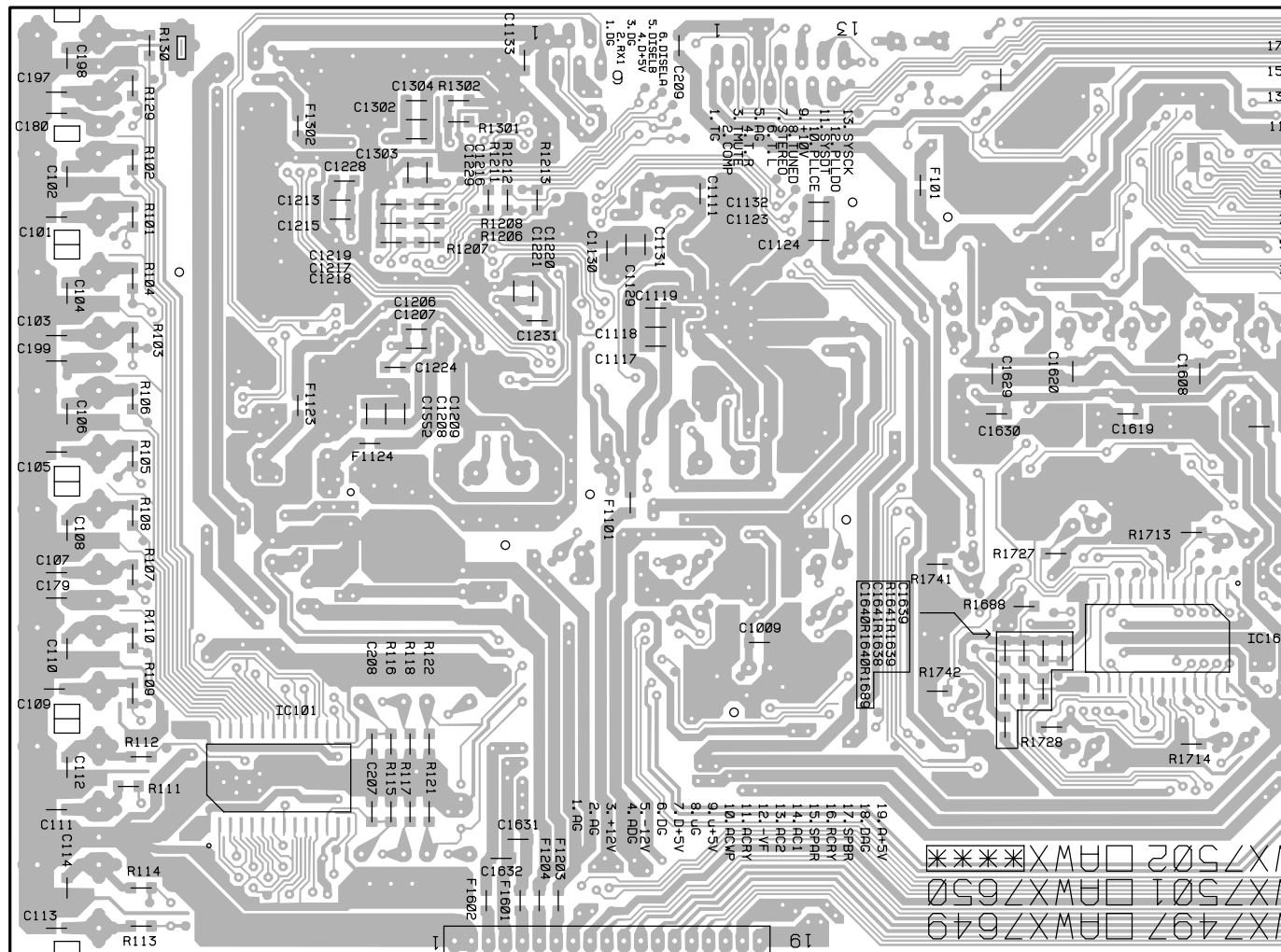


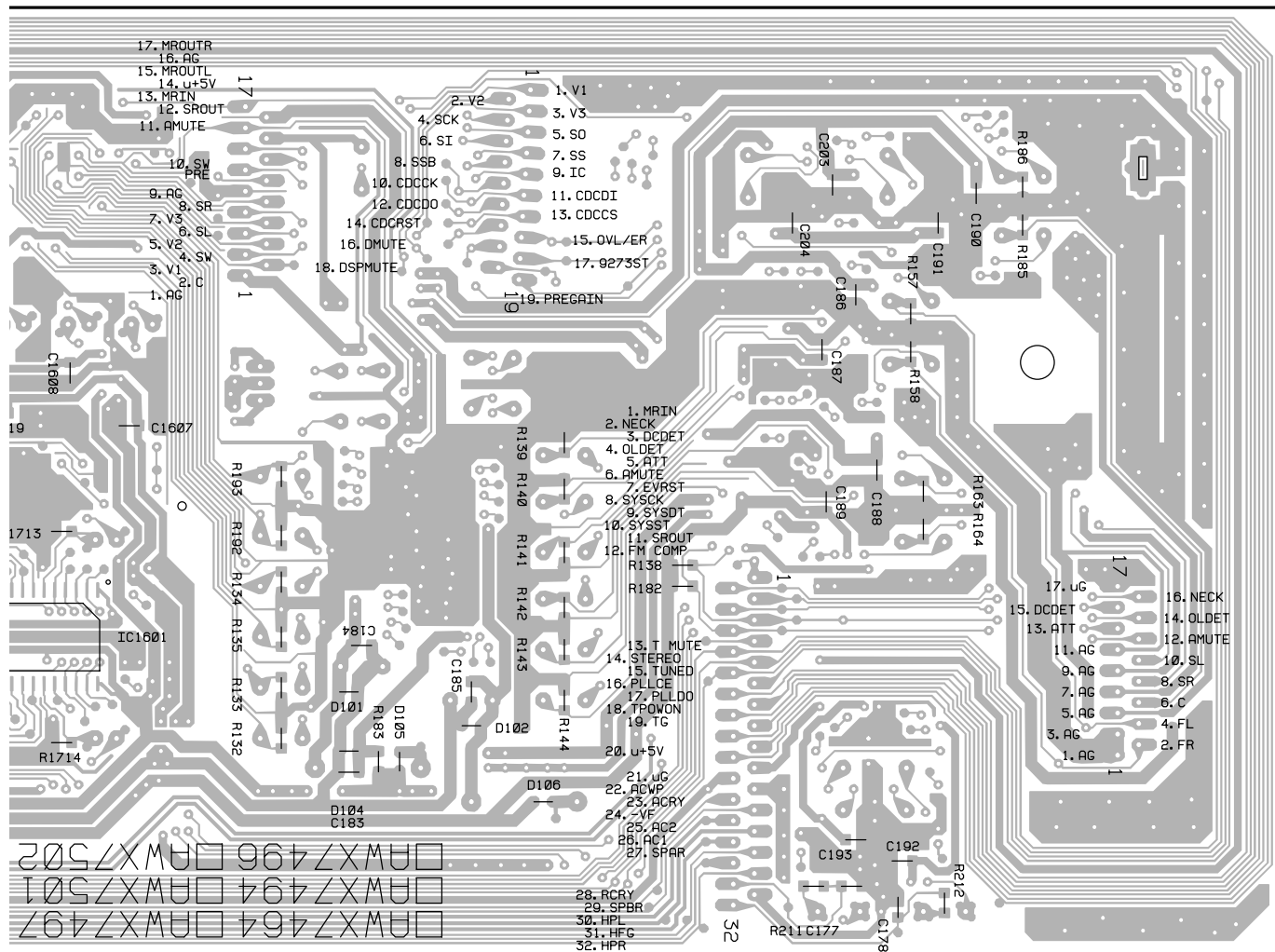
																				(ANP7342-A) SIDE A		
IC102					Q104 Q101 Q103 Q102					IC1101					IC1301							
L602		IC1603			IC1604								IC1201									
2 Q1601		Q1604 Q1603		Q1606 Q1605			IC1001					Q1101		Q1102			IC1401					
L701		IC1712		IC1703		IC1704		IC1705		Q1003 Q1004		Q1001		Q1002			IC104					

F CN802

SIDE A

B D.D & INPUT ASSY





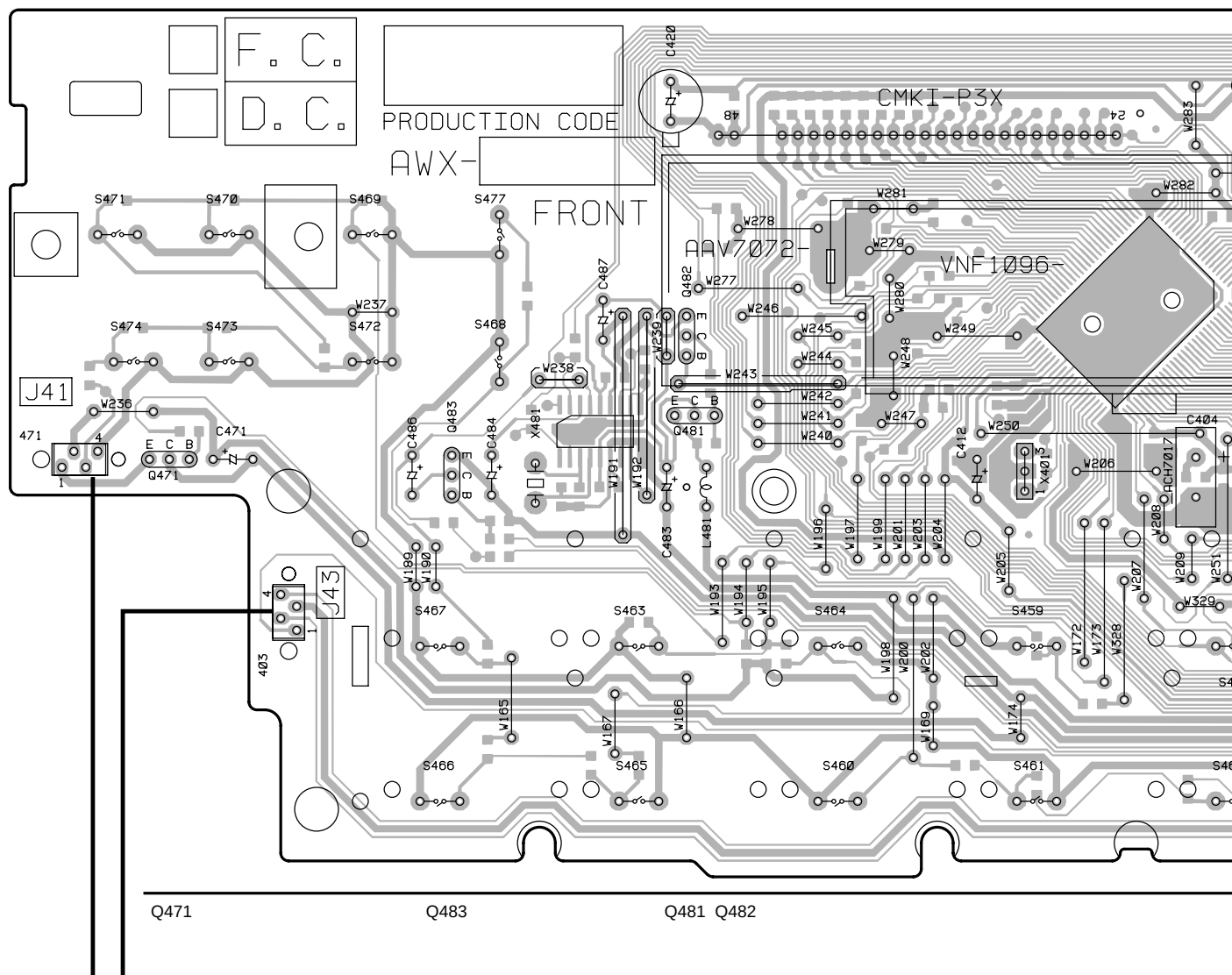
:1801

(ANP7342-A)

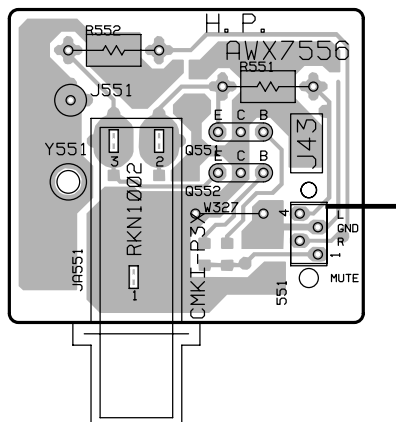
SIDE B

4.5 H.P., FRONT, R.ENCODER and POWER SW ASSYS

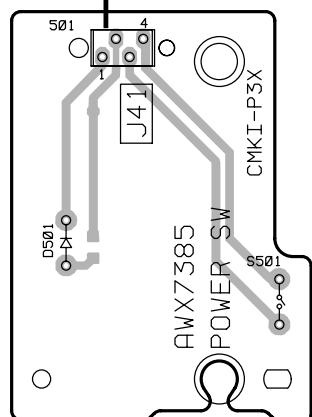
K FRONT ASSY



I H.P. ASSY



M POWER SW ASSY

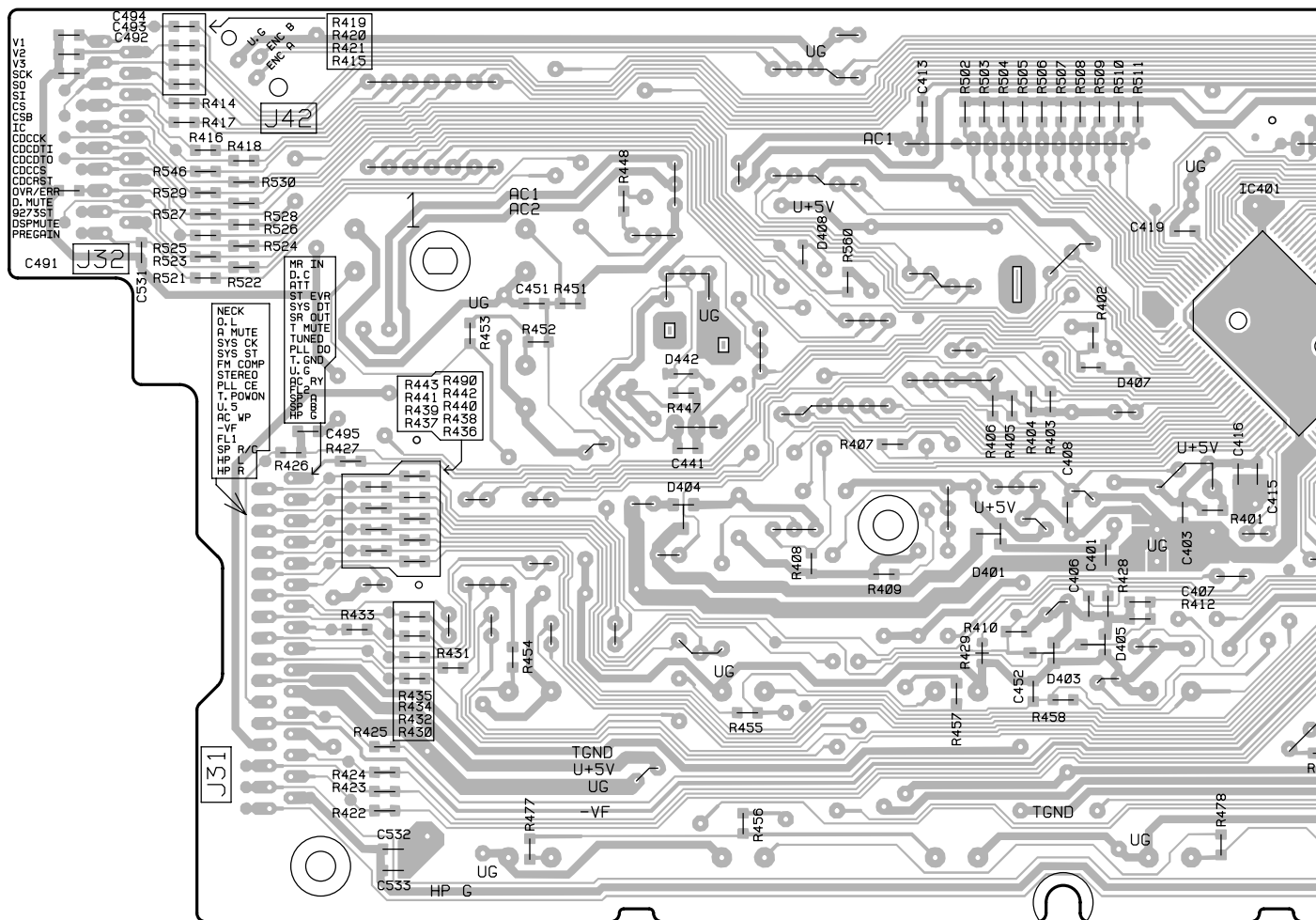




C

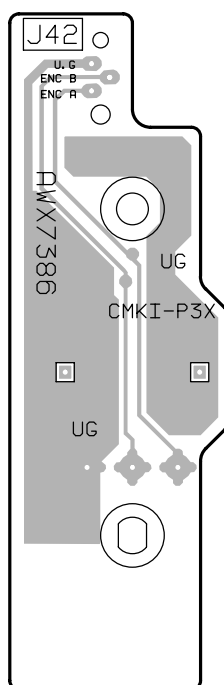
8

K FRONT ASSY



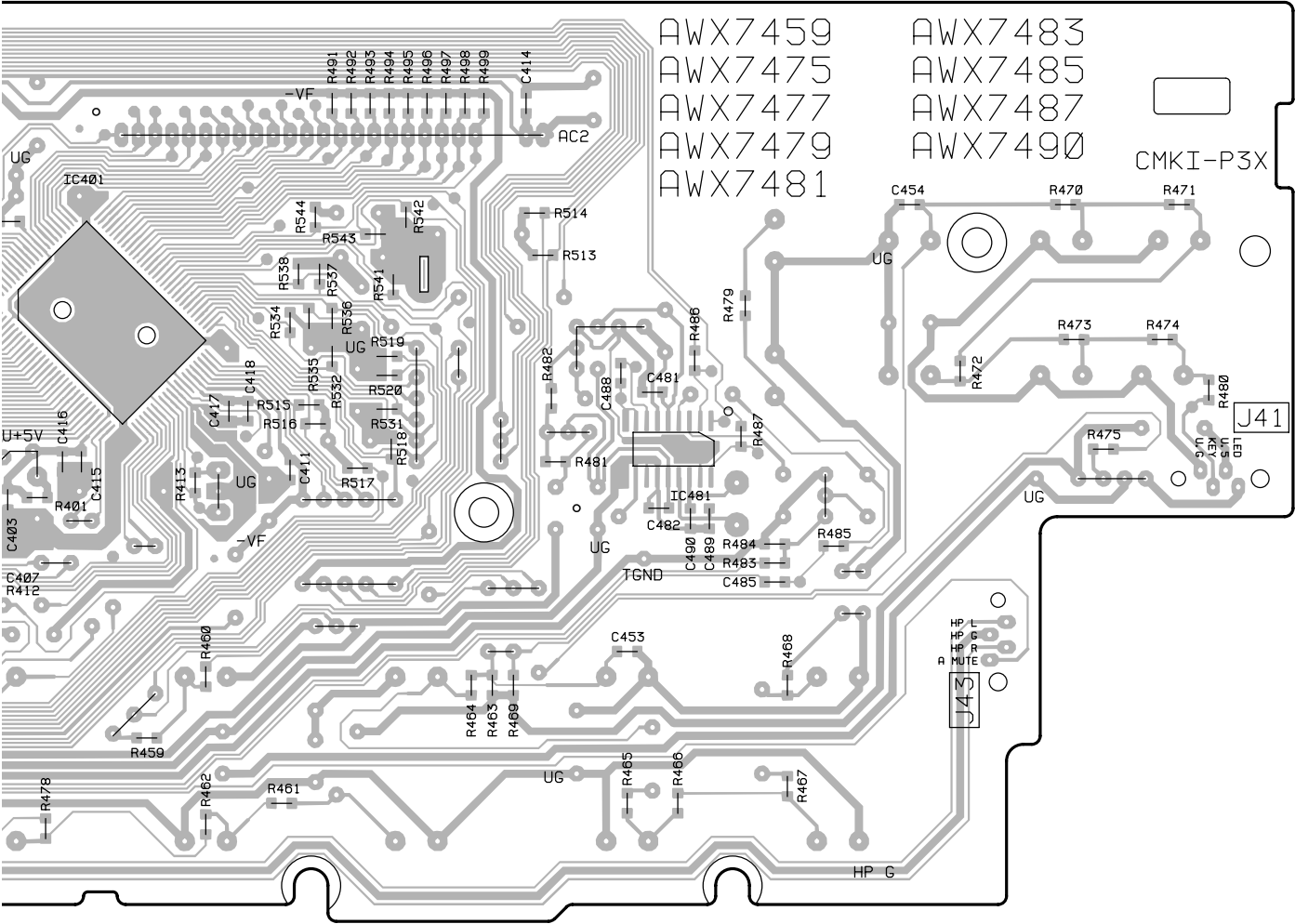
IC401

LR.ENCODER ASSY



(ANP7341-A)

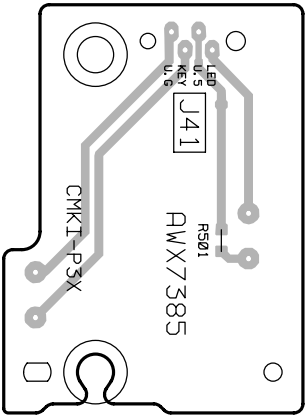
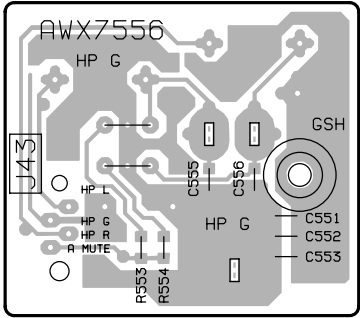
SIDE B



IC401

IC481

I H.P. ASSY



M POWER SW ASSY

5. PCB PARTS LIST

NOTES: ● 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 $\rightarrow$ 56×10^1 $\rightarrow$ 561 RD1/4PU 5 6 1 J

47k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473 RD1/4PU 4 7 3 J

0.5 Ω $\rightarrow$ R50 RN2H R 5 0 K

1 Ω $\rightarrow$ 1R0 RS1P 1 R 0 K

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

5.62k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 5621 RN1/4PC 5 6 2 1 F

■ CONTRAST OF PCB ASSEMBLIES

Mark	Symbol and Description	Part No.		Remarks
		VSX-D409 /KUXJI, KCXJI	VSX-D309 /KUXJI, KCXJI	
NSP	COMPLEX ASSY	AWK7569	AWK7565	
	— POWER SW ASSY	AWX7385	AWX7385	
NSP	— R.ENCODER ASSY	AWX7386	AWX7386	
	— VIDEO&6CH IN ASSY	AWX7474	AWX7474	
	— FRONT ASSY	AWX7479	AWX7475	
	— DIGITAL IN ASSY	AWX7505	AWX7476	
NSP	— H.P. ASSY	AWX7556	AWX7556	
NSP	AMP&PS ASSY	AWK7570	AWK7566	
NSP	— AMP INPUT ASSY	AWX7382	AWX7382	
	— REGULATOR ASSY	AWX7467	AWX7493	
	— TRANS2 ASSY	AWX7468	AWX7468	
NSP	— TRANS1 ASSY	AWX7390	AWX7390	
NSP	— TRANS3 ASSY	AWX7392	AWX7392	
	— AMP&PRIMARY ASSY	AWX7480	AWX7506	
	D.D & INPUT ASSY	AWX7649	AWX7494	

■ CONTRAST OF PCB ASSEMBLIES

B D.D & INPUT ASSY

AWX7494 and AWX7649 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7649	AWX7494	
	C197, C198	CCSQCH101J50	Not used	
	R129, R130	RS1/10S331J	RS1/10S0R0J	
	R153, R154, R159, R160	RS1/16S103J	RS1/16S132J	
	R165	RS1/16S182J	RS1/16S242J	
	R189, R190, R197, R198	RS1/16S242J	RS1/16S362J	
	R213, R214	Not used	RS1/16S0R0J	
	JA101 PIN JACK(4P)	AKB7048	AKB7050	
	JA102 PIN JACK(4P)	AKB7048	Not used	

F REGULATOR ASSY

AWX7493 and AWX7467 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7467	AWX7493	
	Q805	KRA103M	Not used	
	Q806	KRC101M	Not used	

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C AMP&PRIMARY ASSY

AWX7506 and AWX7480 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7480	AWX7506	
△ △ △	IC601 IC602 IC604-IC607 PROTECTOR (10A) D758 RY754	PAC010A PAC011A AEK7022 1SS133 ASR7001	PAC012A PAC013A Not used Not used Not used	
△	C701, C702 C703, C704 C709, C710 R711 R757	ACH7137(4700μF/71V) ACH7135 (3300μF/42V) Not used RS2LMF392J RD1/4PU223J	Not used CEAT222M35 ACH7136 (3300μF/56V) RS2LMF272J Not used	
	R758 CN753 PIN JACK 1-P CN754 SPEAKER TERMINAL 8-P 752 SPEAKER TERMINAL 4-P	RD1/4PU202J AKB7042 AKB7057 Not used	Not used Not used Not used AKE1012	

J DIGITAL IN ASSY

AWX7476 and AWX7505 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7505	AWX7476	
	C1901 R1901 JA1903 OPTICAL RECEIV MOD.	CKSQYB102K25 RS1/10S101J GP1F32R	Not used Not used Not used	

K FRONT ASSY

AWX7475 and AWX7479 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7479	AWX7475	
	R429	RS1/10S751J	RS1/10S182J	

■ PCB PARTS LIST FOR VSX-D409 UNLESS OTHERWISE NOTED

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A AMP INPUT ASSY				IC1201	DTS DECODER IC	YSS912C	
OTHERS				IC1301	SRAM(256K)	KM68257EJ-15	
	CN290	17P CONNECTOR	52044-1745	IC1401	REGULATOR IC	PQ20WZ51	
	CN291	16P SOCKET	KP200TA16L	IC1601	E-SW IC	TC9164AF	
				IC1602	IC	NJM4558MD	
				IC1603	IC	NJM4558MD	
				IC1604	IC	NJM4558MD	
				IC1701	IC	NJM4558MD	
				IC1702	IC	NJM4558MD	
				IC1703	IC	NJM4558MD	
				IC1704	IC	NJM4558MD	
				IC1705	IC	NJM4558MD	
				Q101	CHIP TRANSISTOR	2SC2412K	
				Q103	TRANSISTOR	DTA143EK	
				Q104	DIGITAL TRANSISTOR	DTC124EK	
				Q105	CHIP MUTING TR	2SC3326	
				Q106	CHIP MUTING TR	2SC3326	
				Q107	CHIP MUTING TR	2SC3326	
				Q108	CHIP MUTING TR	2SC3326	
				Q109	CHIP MUTING TR	2SC3326	
B D.D & INPUT ASSY							
SEMICONDUCTORS							
	IC101	ANALOG SWITCH IC	TC9273F-007				
	IC102	E-SW IC	TC9163AF				
	IC103	E-VR IC	M62446FP				
	IC104	OP-AMP IC	UPC4570G2				
	IC105	OP-AMP IC	UPC4570G2				
	IC106	OP-AMP IC	UPC4570G2				
	IC107	OP-AMP IC	UPC4570G2				
	IC108	OP-AMP IC	M5216FP				
	IC1001	OP-AMP IC	NJM2100M				
	IC1101	MULTI CH CODEC IC	CS4226-KQ(J)				

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	Q110	CHIP MUTING TR	2SC3326		C121	CERAMIC CAPACITOR	CCSRCH101J50
	Q111	CHIP MUTING TR	2SC3326		C122	CERAMIC CAPACITOR	CCSRCH101J50
	Q112	CHIP MUTING TR	2SC3326		C123	CERAMIC CAPACITOR	CCSRCH101J50
	Q1001	CHIP MUTING TR	2SC3326		C124	CHIP CERAMIC C.	CKSRYB103K50
	Q1002	CHIP MUTING TR	2SC3326		C125	CHIP CERAMIC C.	CKSRYB103K50
	Q1003	CHIP DIGITAL TRANS.	DTA124EK		C126	CERAMIC CAPACITOR	CCSRCH101J50
	Q1004	DIGITAL TRANSISTOR	DTC124EK		C127	CERAMIC CAPACITOR	CCSRCH101J50
	Q1101	CHIP DIGITAL TRANS.	DTA124EK		C128	CERAMIC CAPACITOR	CCSRCH101J50
	Q1102	DIGITAL TRANSISTOR	DTC124EK		C130	ELECT. CAPACITOR	CEAT100M50
	Q1601	CHIP MUTING TR	2SC3326		C131	ELECT. CAPACITOR	CEAT100M50
	Q1602	CHIP MUTING TR	2SC3326		C132	ELECT. CAPACITOR	CEAT100M50
	Q1603	CHIP MUTING TR	2SC3326		C133	ELECT. CAPACITOR	CEAT100M50
	Q1604	CHIP MUTING TR	2SC3326		C134	ELECT. CAPACITOR	CEAT100M50
	Q1605	CHIP MUTING TR	2SC3326		C135	ELECT. CAPACITOR	CEAT100M50
	Q1606	CHIP MUTING TR	2SC3326		C136	ELECT. CAPACITOR	CEAT100M50
	Q1607	CHIP DIGITAL TRANS.	DTA124EK		C137	ELECT. CAPACITOR	CEAT100M50
	Q1608	CHIP DIGITAL TRANS.	DTA124EK		C138	CHIP CERAMIC C.	CKSRYB822K50
	Q1609	DIGITAL TRANSISTOR	DTC124EK		C139	CHIP CERAMIC C.	CKSRYB153K50
	Q1610	CHIP DIGITAL TRANS.	DTA124EK		C140	CERAMIC CAPACITOR	CKSQYB334K16
	D101	CHIP ZENER DIODE	UDZS6.8B		C141	CHIP CERAMIC C.	CKSRYB822K50
	D102	CHIP ZENER DIODE	UDZS6.8B		C142	CHIP CERAMIC C.	CKSRYB153K50
	D103	DIODE	1SS355		C143	CERAMIC CAPACITOR	CKSQYB334K16
	D104	CHIP ZENER DIODE	UDZS5.1B		C144	ELECT. CAPACITOR	CEAT3R3M50
	D105	DIODE	1SS355		C145	ELECT. CAPACITOR	CEAT3R3M50
	D106	DIODE	1SS355		C146	ELECT. CAPACITOR	CEAT100M50
	D1601	DIODE	1SS181		C147	ELECT. CAPACITOR	CEAT3R3M50
	D1602	DIODE	1SS181		C148	ELECT. CAPACITOR	CEAT3R3M50
COILS AND FILTERS					C149	ELECT. CAPACITOR	CEAT3R3M50
	F101	CHIP BEAD	DTF1067		C150	ELECT. CAPACITOR	CEAT3R3M50
	F1101	CHIP BEAD	DTF1064		C151	ELECT. CAPACITOR	CEAT3R3M50
	F1123	CHIP BEAD	DTF1064		C152	CERAMIC CAPACITOR	CCSRCH101J50
	F1124	CHIP BEAD	DTF1064		C153	CERAMIC CAPACITOR	CCSRCH101J50
	F1203	CHIP BEAD	DTF1064		C154	CERAMIC CAPACITOR	CCSRCH101J50
	F1204	CHIP BEAD	DTF1064		C155	ELECT. CAPACITOR	CEAT471M10
	F1302	CHIP BEAD	DTF1064		C156	ELECT. CAPACITOR	CEAT471M10
	F1601	CHIP BEAD	DTF1064		C157	ELECT. CAPACITOR	CEAT101M16
	F1602	CHIP BEAD	DTF1064		C159	CERAMIC CAPACITOR	CCSRCH101J50
	L1101	CHIP SOLID INDUCTOR	QTL1013		C160	CERAMIC CAPACITOR	CCSRCH101J50
	L1102	CHIP SOLID INDUCTOR	QTL1013		C161	ELECT. CAPACITOR	CEAT470M25
	L1103	CHIP SOLID INDUCTOR	QTL1013		C162	ELECT. CAPACITOR	CEAT470M25
	L1104	CHIP SOLID INDUCTOR	QTL1013		C163	CERAMIC CAPACITOR	CCSRCH101J50
	L1401	CHIP SOLID INDUCTOR	ATL7002		C164	CERAMIC CAPACITOR	CCSRCH101J50
CAPACITORS					C165	ELECT. CAPACITOR	CEAT470M25
	C101	CHIP CAPACITOR	CCSQCH101J50		C166	ELECT. CAPACITOR	CEAT470M25
	C102	CHIP CAPACITOR	CCSQCH101J50		C167	CHIP CERAMIC C.	CCSRCH221J50
	C103	CHIP CAPACITOR	CCSQCH101J50		C168	CERAMIC CAPACITOR	CKSRYB152K50
	C104	CHIP CAPACITOR	CCSQCH101J50		C169	ELECT. CAPACITOR	CEAT470M25
	C105	CHIP CAPACITOR	CCSQCH101J50		C170	ELECT. CAPACITOR	CEAT4R7M50
	C106	CHIP CAPACITOR	CCSQCH101J50		C171	CHIP CERAMIC C.	CKSRYB103K50
	C107	CHIP CAPACITOR	CCSQCH101J50		C172	CHIP CERAMIC C.	CKSRYB103K50
	C108	CHIP CAPACITOR	CCSQCH101J50		C173	CHIP CERAMIC C.	CCSRCH151J50
	C109	CHIP CAPACITOR	CCSQCH101J50		C174	CHIP CERAMIC C.	CCSRCH151J50
	C110	CHIP CAPACITOR	CCSQCH101J50		C175	ELECT. CAPACITOR	CEAT101M16
	C111	CHIP CAPACITOR	CCSQCH101J50		C176	ELECT. CAPACITOR	CEAT101M16
	C112	CHIP CAPACITOR	CCSQCH101J50		C177	CERAMIC CAPACITOR	CKSQYB103K50
	C113	CHIP CAPACITOR	CCSQCH101J50		C178	CERAMIC CAPACITOR	CKSQYB103K50
	C114	CHIP CAPACITOR	CCSQCH101J50		C179	CERAMIC CAPACITOR	CKSQYB103K50
	C115	ELECT. CAPACITOR	CEAT4R7M50		C180	CERAMIC CAPACITOR	CKSQYB103K50
	C116	ELECT. CAPACITOR	CEAT4R7M50		C183	CERAMIC CAPACITOR	CKSQYB103K50
	C117	ELECT. CAPACITOR	CEAT470M25		C184	CERAMIC CAPACITOR	CKSQYF473Z50
	C118	ELECT. CAPACITOR	CEAT470M25		C185	CERAMIC CAPACITOR	CKSQYF473Z50
	C119	CHIP CERAMIC C.	CKSRYB103K50		C186	CERAMIC CAPACITOR	CKSQYB103K50
	C120	CHIP CERAMIC C.	CKSRYB103K50		C187	CERAMIC CAPACITOR	CKSQYB103K50
					C188	CERAMIC CAPACITOR	CKSQYB103K50
					C189	CERAMIC CAPACITOR	CKSQYB103K50

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Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C190	CERAMIC CAPACITOR	CKSQYB103K50		C1213	CHIP CAPACITOR	CCSQCH101J50
	C191	CERAMIC CAPACITOR	CKSQYB103K50		C1214	CHIP CERAMIC C.	CKSRYB103K50
	C192	CERAMIC CAPACITOR	CKSQYB103K50		C1215	CERAMIC CAPACITOR	CKSQYB103K50
	C193	CERAMIC CAPACITOR	CKSQYB103K50		C1216	CERAMIC CAPACITOR	CKSQYB103K50
	C194	ELECT. CAPACITOR	CEAT4R7M50		C1217	CHIP CAPACITOR	CCSQCH101J50
	C195	ELECT. CAPACITOR	CEAT4R7M50		C1218	CHIP CAPACITOR	CCSQCH101J50
	C197	CHIP CAPACITOR	CCSQCH101J50		C1219	CERAMIC CAPACITOR	CKSQYF104Z25
	C198	CHIP CAPACITOR	CCSQCH101J50		C1220	CERAMIC CAPACITOR	CKSQYB103K50
	C199	CERAMIC CAPACITOR	CKSQYB103K50		C1221	CHIP CAPACITOR	CCSQCH101J50
	C201	ELECT. CAPACITOR	CEAT4R7M50		C1222	CHIP CERAMIC C.	CKSRYB103K50
	C202	CERAMIC CAPACITOR	CKSRYF104Z16		C1223	CERAMIC CAPACITOR	CCSRCH101J50
	C205	ELECT. CAPACITOR	CEAT3R3M50		C1224	CERAMIC CAPACITOR	CKSQYF104Z25
	C207	CHIP CAPACITOR	CCSQCH101J50		C1225	CERAMIC CAPACITOR	CKSQYF104Z25
	C208	CHIP CAPACITOR	CCSQCH101J50		C1226	CERAMIC CAPACITOR	CKSRYF104Z16
	C209	CERAMIC CAPACITOR	CKSQYF104Z25		C1227	CERAMIC CAPACITOR	CKSRYF104Z16
	C1001	CERAMIC CAPACITOR	CCSRCH101J50		C1228	CERAMIC CAPACITOR	CKSQYF104Z25
	C1002	CERAMIC CAPACITOR	CCSRCH101J50		C1229	CERAMIC CAPACITOR	CKSQYF104Z25
	C1003	ELECT. CAPACITOR	CEAT4R7M50		C1230	CERAMIC CAPACITOR	CKSRYF104Z16
	C1004	ELECT. CAPACITOR	CEAT4R7M50		C1231	CERAMIC CAPACITOR	CKSQYF104Z25
	C1005	ELECT. CAPACITOR	CEAT221M6R3		C1232	CERAMIC CAPACITOR	CKSRYF104Z16
	C1006	CHIP CERAMIC C.	CKSRYB103K50		C1301	ELECT. CAPACITOR	CEJA101M10
	C1007	ELECT. CAPACITOR	CEJANP100M10		C1302	CERAMIC CAPACITOR	CKSQYB103K50
	C1008	ELECT. CAPACITOR	CEJANP100M10		C1303	CHIP CAPACITOR	CCSQCH101J50
	C1009	CERAMIC CAPACITOR	CKSQYF104Z25		C1304	CERAMIC CAPACITOR	CKSQYF104Z25
	C1101	CHIP CERAMIC C.	CCSRCH471J50		C1401	ELECT. CAPACITOR	CEAT4R7M50
	C1102	CERAMIC CAPACITOR	CCSRCH102J50		C1404	ELECT. CAPACITOR	CEAT101M10
	C1103	CERAMIC CAPACITOR	CCSRCH390J50		C1601	CHIP CERAMIC C.	CCSRCH221J50
	C1104	CERAMIC CAPACITOR	CCSRCH390J50		C1602	CHIP CERAMIC C.	CCSRCH221J50
	C1105	CERAMIC CAPACITOR	CKSRYF104Z16		C1603	CHIP CERAMIC C.	CCSRCH471J50
	C1106	CHIP CERAMIC C.	CCSRCH471J50		C1604	CHIP CERAMIC C.	CCSRCH471J50
	C1107	CHIP CERAMIC C.	CKSRYB222K50		C1605	ELECT. CAPACITOR	CEAT4R7M50
	C1108	CERAMIC CAPACITOR	CKSQYB224K16		C1606	ELECT. CAPACITOR	CEAT4R7M50
	C1109	CERAMIC CAPACITOR	CKSRYF104Z16		C1607	CERAMIC CAPACITOR	CKSQYB103K50
	C1110	CHIP CERAMIC C.	CCSRCH471J50		C1608	CERAMIC CAPACITOR	CKSQYB103K50
	C1111	CERAMIC CAPACITOR	CKSQYF104Z25		C1609	CHIP CERAMIC C.	CCSRCH221J50
	C1112	ELECT. CAPACITOR	CEAT1R0M50		C1610	CHIP CERAMIC C.	CCSRCH221J50
	C1113	CERAMIC CAPACITOR	CCSRCH180J50		C1611	CHIP CERAMIC C.	CCSRCH471J50
	C1114	CERAMIC CAPACITOR	CCSRCH180J50		C1612	CHIP CERAMIC C.	CCSRCH471J50
	C1115	ELECT. CAPACITOR	CEATR47M50		C1613	ELECT. CAPACITOR	CEAT4R7M50
	C1116	ELECT. CAPACITOR	CEAT101M10		C1614	ELECT. CAPACITOR	CEAT4R7M50
	C1117	CERAMIC CAPACITOR	CKSQYF104Z25		C1615	CHIP CERAMIC C.	CKSRYB222K50
	C1118	CHIP CERAMIC C.	CCSQCH471J50		C1616	CHIP CERAMIC C.	CKSRYB222K50
	C1119	CHIP CERAMIC C.	CCSQCH271J50		C1617	CHIP CERAMIC C.	CKSRYB222K50
	C1121	ELECT. CAPACITOR	CEAT101M10		C1618	CHIP CERAMIC C.	CKSRYB222K50
	C1122	ELECT. CAPACITOR	CEAT101M10		C1619	CERAMIC CAPACITOR	CKSQYB103K50
	C1123	CHIP CAPACITOR	CCSQCH331J50		C1620	CERAMIC CAPACITOR	CKSQYB103K50
	C1124	CHIP CAPACITOR	CCSQCH331J50		C1621	CHIP CERAMIC C.	CKSRYB122K50
	C1128	CHIP CERAMIC C.	CKSRYB103K50		C1623	CHIP CERAMIC C.	CCSRCH271J50
	C1129	CERAMIC CAPACITOR	CKSQYB103K50		C1625	ELECT. CAPACITOR	CEAT4R7M50
	C1130	CHIP CERAMIC C.	CCSQCH471J50		C1626	ELECT. CAPACITOR	CEAT4R7M50
	C1132	CERAMIC CAPACITOR	CKSQYB103K50		C1627	CHIP CERAMIC C.	CKSRYB222K50
	C1133	CERAMIC CAPACITOR	CKSQYF104Z25		C1628	CERAMIC CAPACITOR	CKSRYF104Z50
	C1134	CHIP CERAMIC C.	CKSRYB103K50		C1629	CERAMIC CAPACITOR	CKSQYB103K50
	C1201	ELECT. CAPACITOR	CEAT101M10		C1630	CERAMIC CAPACITOR	CKSQYB103K50
	C1202	ELECT. CAPACITOR	CEAT221M6R3		C1631	CERAMIC CAPACITOR	CKSQYF104Z25
	C1203	CHIP CERAMIC C.	CCSRCH200J50		C1632	CERAMIC CAPACITOR	CKSQYF104Z25
	C1204	CHIP CERAMIC C.	CCSRCH200J50		C1636	CHIP CERAMIC C.	CKSRYB103K50
	C1205	CHIP CERAMIC C.	CKSRYB103K50		C1637	CHIP CERAMIC C.	CKSRYB103K50
	C1206	CERAMIC CAPACITOR	CKSQYB103K50		C1639	CHIP CERAMIC C.	CCSQCH471J50
	C1207	CHIP CAPACITOR	CCSQCH101J50		C1640	CHIP CAPACITOR	CCSQCH101J50
	C1208	CERAMIC CAPACITOR	CKSQYB103K50		C1641	CHIP CAPACITOR	CCSQCH101J50
	C1209	CHIP CAPACITOR	CCSQCH101J50		C1642	CHIP CERAMIC C.	CKSRYB103K50
	C1210	CHIP CERAMIC C.	CCSRCH471J50		C1701	CERAMIC CAPACITOR	CKSRYB682K50
	C1211	CHIP CERAMIC C.	CKSRYB103K50		C1702	CERAMIC CAPACITOR	CKSRYB682K50
	C1212	CERAMIC CAPACITOR	CCSRCH101J50		C1703	CHIP CERAMIC C.	CKSRYB222K50

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C1704	CHIP CERAMIC C.	CKSRYB222K50		R135	CHIP RESISTOR	RS1/10S104J
	C1705	CERAMIC CAPACITOR	CKSRYB104K16		R138	CHIP RESISTOR	RS1/10S473J
	C1706	CERAMIC CAPACITOR	CKSRYB104K16		R139	CHIP RESISTOR	RS1/10S104J
	C1707	CHIP CERAMIC C.	CCSRCH151J50		R140	CHIP RESISTOR	RS1/10S104J
	C1708	CHIP CERAMIC C.	CCSRCH151J50		R141	CHIP RESISTOR	RS1/10S104J
	C1709	CHIP CERAMIC C.	CKSRYB103K50		R142	CHIP RESISTOR	RS1/10S104J
	C1710	CHIP CERAMIC C.	CKSRYB103K50		R143	CHIP RESISTOR	RS1/10S104J
	C1711	CHIP CERAMIC C.	CKSRYB103K50		R144	CHIP RESISTOR	RS1/10S204J
	C1712	CHIP CERAMIC C.	CKSRYB103K50		R157	CHIP RESISTOR	RS1/10S104J
	C1713	ELECT. CAPACITOR	CEAT220M25		R158	CHIP RESISTOR	RS1/10S104J
	C1714	ELECT. CAPACITOR	CEAT220M25		R163	CHIP RESISTOR	RS1/10S104J
	C1715	CERAMIC CAPACITOR	CKSRYB682K50		R164	CHIP RESISTOR	RS1/10S104J
	C1716	CERAMIC CAPACITOR	CKSRYB682K50	△	R174	METAL OXIDE RESISTOR	RS1LMF101J
	C1717	CHIP CERAMIC C.	CKSRYB222K50	△	R175	METAL OXIDE RESISTOR	RS1LMF101J
	C1718	CHIP CERAMIC C.	CKSRYB222K50		R182	CHIP RESISTOR	RS1/10S473J
	C1719	CERAMIC CAPACITOR	CKSRYB104K16		R183	CHIP RESISTOR	RS1/10S122J
	C1720	CERAMIC CAPACITOR	CKSRYB104K16		R185	CHIP RESISTOR	RS1/10S104J
	C1721	CHIP CERAMIC C.	CCSRCH151J50		R186	CHIP RESISTOR	RS1/10S104J
	C1722	CHIP CERAMIC C.	CCSRCH151J50		R192	CHIP RESISTOR	RS1/10S104J
	C1723	CHIP CERAMIC C.	CKSRYB103K50		R193	CHIP RESISTOR	RS1/10S104J
	C1724	CHIP CERAMIC C.	CKSRYB103K50		R211	CHIP RESISTOR	RS1/10S100J
	C1725	CHIP CERAMIC C.	CKSRYB103K50		R212	CHIP RESISTOR	RS1/10S100J
	C1726	CHIP CERAMIC C.	CKSRYB103K50		R1206	CHIP RESISTOR	RS1/10S102J
	C1727	ELECT. CAPACITOR	CEAT220M25		R1207	CHIP RESISTOR	RS1/10S102J
	C1728	ELECT. CAPACITOR	CEAT220M25		R1208	CHIP RESISTOR	RS1/10S102J
	C1729	CERAMIC CAPACITOR	CKSRYB682K50		R1211	CHIP RESISTOR	RS1/10S472J
	C1731	CHIP CERAMIC C.	CKSRYB222K50		R1212	CHIP RESISTOR	RS1/10S472J
	C1732	CERAMIC CAPACITOR	CKSRYB682K50		R1213	CHIP RESISTOR	RS1/10S472J
	C1733	CERAMIC CAPACITOR	CKSRYB104K16		R1302	CHIP RESISTOR	RS1/10S0R0J
	C1734	CERAMIC CAPACITOR	CKSRYB104K16		R1638	CHIP RESISTOR	RS1/10S102J
	C1735	CHIP CERAMIC C.	CCSRCH151J50		R1639	CHIP RESISTOR	RS1/10S102J
	C1736	CERAMIC CAPACITOR	CCSRCH102J50		R1640	CHIP RESISTOR	RS1/10S102J
	C1737	CHIP CERAMIC C.	CKSRYB103K50		R1641	CHIP RESISTOR	RS1/10S473J
	C1738	CHIP CERAMIC C.	CKSRYB103K50		R1689	CHIP RESISTOR	RS1/10S0R0J
	C1739	ELECT. CAPACITOR	CEAT220M25		R1713	CHIP RESISTOR	RS1/10S473J
	C1740	ELECT. CAPACITOR	CEAT220M25		R1714	CHIP RESISTOR	RS1/10S473J
					R1727	CHIP RESISTOR	RS1/10S473J
					R1728	CHIP RESISTOR	RS1/10S473J
					R1741	CHIP RESISTOR	RS1/10S473J
					R1742	CHIP RESISTOR	RS1/10S473J
RESISTORS	R101	CHIP RESISTOR	RS1/10S331J		Other Resistors		RS1/16S□□□J
	R102	CHIP RESISTOR	RS1/10S331J				
	R103	CHIP RESISTOR	RS1/10S222J				
	R104	CHIP RESISTOR	RS1/10S222J				
	R105	CHIP RESISTOR	RS1/10S331J				
	R106	CHIP RESISTOR	RS1/10S331J				
	R107	CHIP RESISTOR	RS1/10S331J				
	R108	CHIP RESISTOR	RS1/10S331J				
	R109	CHIP RESISTOR	RS1/10S331J				
	R110	CHIP RESISTOR	RS1/10S331J				
	R111	CHIP RESISTOR	RS1/10S222J				
	R112	CHIP RESISTOR	RS1/10S222J				
	R113	CHIP RESISTOR	RS1/10S331J				
	R114	CHIP RESISTOR	RS1/10S331J				
	R115	CHIP RESISTOR	RS1/10S104J				
	R116	CHIP RESISTOR	RS1/10S104J				
	R117	CHIP RESISTOR	RS1/10S104J				
	R118	CHIP RESISTOR	RS1/10S104J				
	R121	CHIP RESISTOR	RS1/10S104J				
	R122	CHIP RESISTOR	RS1/10S104J				
	R129	CHIP RESISTOR	RS1/10S331J				
	R130	CHIP RESISTOR	RS1/10S331J				
	R132	CHIP RESISTOR	RS1/10S104J				
	R133	CHIP RESISTOR	RS1/10S104J				
	R134	CHIP RESISTOR	RS1/10S104J				
				OTHERS			
				CN101	19P SOCKET		KP200TA19L
				CN102	32P CONNECTOR		52045-3245
				CN103	20P CONNECTOR		52045-1945
				CN104	CONNECTOR		52045-1345
				CN105	CONNECTOR		52045-1345
				CN106	CONNECTOR		52045-1745
				CN1501	CONNECTOR 6P		52045-0645
				JA101	PIN JACK(4P)		AKB7048
				JA102	PIN JACK(4P)		AKB7048
				JA103	PIN JACK(4P)		AKB7048
				JA104	PIN JACK(4P)		AKB7048
				X1101	CRYSTAL RESONATOR (18.432MHZ)		RSS1052
				X1201	CRYSTAL RESONATOR (12.288MHZ)		VSS1140

VSX-D409, VSX-D309

Mark	No.	Description	Part No.
C AMP&PRIMARY ASSY			
SEMICONDUCTORS			
	IC51	REGULATOR IC	NJM78M56FA
△	IC601	AUDIO IC	PAC010A
△	IC602	AUDIO IC	PAC011A
△	IC603	PROTECTOR (1A)	AEK7009
△	IC604	PROTECTOR (10A)	AEK7022
△	IC605	PROTECTOR (10A)	AEK7022
△	IC606	PROTECTOR (10A)	AEK7022
△	IC607	PROTECTOR (10A)	AEK7022
	Q51	TRANSISTOR	KRC101M
	Q601	TRANSISTOR	2SC2878
	Q602	TRANSISTOR	2SC2878
	Q603	TRANSISTOR	2SC2878
	Q604	TRANSISTOR	2SC2878
	Q605	TRANSISTOR	2SC2240
	Q606	TRANSISTOR	2SC2240
	Q631	TRANSISTOR	2SC2878
	Q632	TRANSISTOR	2SC2878
	Q633	TRANSISTOR	2SC2240
	Q651	TRANSISTOR	2SC2878
	Q652	TRANSISTOR	2SC2878
	Q653	TRANSISTOR	2SC2878
	Q654	TRANSISTOR	2SC2878
	Q655	TRANSISTOR	2SC2240
	Q656	TRANSISTOR	2SC2240
	Q691	TRANSISTOR	2SC1740S
	Q692	TRANSISTOR	2SC1740S
	Q701	TRANSISTOR	2SD1859X
	Q702	TRANSISTOR	2SB1238X
	Q703	TRANSISTOR	2SA1145
	Q704	TRANSISTOR	2SC1845
△	D51	DIODE	S5688G
△	D52	DIODE	S5688G
△	D53	DIODE	S5688G
△	D54	DIODE	S5688G
△	D55	DIODE	S5688G
	D56	DIODE	1SS133
	D58	ZENER DIODE	MTZJ5.1A
	D601	DIODE	1SS133
	D602	DIODE	1SS133
	D603	DIODE	1SS133
	D604	DIODE	1SS133
	D605	ZENER DIODE	MTZJ8.2A
	D606	ZENER DIODE	MTZJ8.2A
	D631	DIODE	1SS133
	D632	DIODE	1SS133
	D633	ZENER DIODE	MTZJ8.2A
	D634	ZENER DIODE	MTZJ8.2A
	D651	DIODE	1SS133
	D652	DIODE	1SS133
	D653	DIODE	1SS133
△	D654	DIODE	1SS133
△	D701	DIODE	D5SBA20(B)
△	D702	DIODE	D5SBA20(B)
	D711	ZENER DIODE	MTZJ22D
	D712	ZENER DIODE	MTZJ5.1B
	D752	DIODE	1SS133
	D754	DIODE	1SS133
	D756	DIODE	1SS133
	D758	DIODE	1SS133

Mark	No.	Description	Part No.
COILS AND FILTERS			
△	L51	LINE FILTER	ATF7018
	L751	COIL	ATH1004
	L752	COIL	ATH1004
	L753	COIL	ATH1004
	L761	COIL	ATH1004
	L762	COIL	ATH1004
SWITCHES AND RELAYS			
△	RY51	JOE LOWPOWER RELAY	ASR7013
	RY751	RELAY	ASR7001
	RY752	RELAY	ASR7001
	RY753	RELAY	ASR7001
	RY754	RELAY	ASR7001
CAPACITORS			
△	C51	CKA (10000pF/AC250V)	ACG7020
△	C52	CKA (10000pF/AC250V)	ACG7020
	C53	ELECT. CAPACITOR	CEAT102M16
	C54	ELECT. CAPACITOR	CEAT470M25
	C55	CERAMIC CAPACITOR	CGCYX103M25
	C56	CERAMIC CAPACITOR	CGCYX103M25
	C57	CERAMIC CAPACITOR	CGCYX103M25
	C601	CERAMIC CAPACITOR	CKCYB102K50
	C602	CERAMIC CAPACITOR	CKCYB102K50
	C603	CERAMIC CAPACITOR	CKCYB331K50
	C604	CERAMIC CAPACITOR	CKCYB331K50
	C605	ELECT. CAPACITOR	CEAT4R7M50
	C606	ELECT. CAPACITOR	CEAT4R7M50
	C607	CERAMIC CAPACITOR	CCCSL6R0D50
	C608	CERAMIC CAPACITOR	CCCSL6R0D50
	C609	CERAMIC CAPACITOR	CCCSL6R0D50
	C610	CERAMIC CAPACITOR	CCCSL6R0D50
	C611	ELECT. CAPACITOR	CEAT101M16
	C612	ELECT. CAPACITOR	CEAT101M16
	C615	ELECT. CAPACITOR	CEANP2R2M50
	C616	ELECT. CAPACITOR	CEANP2R2M50
	C631	CERAMIC CAPACITOR	CKCYB102K50
	C632	CERAMIC CAPACITOR	CKCYB331K50
	C633	ELECT. CAPACITOR	CEAT4R7M50
	C634	CERAMIC CAPACITOR	CCCSL6R0D50
	C635	CERAMIC CAPACITOR	CCCSL6R0D50
	C636	ELECT. CAPACITOR	CEAT101M16
	C638	ELECT. CAPACITOR	CEANP2R2M50
	C651	CERAMIC CAPACITOR	CKCYB102K50
	C652	CERAMIC CAPACITOR	CKCYB102K50
	C653	CERAMIC CAPACITOR	CKCYB331K50
	C654	CERAMIC CAPACITOR	CKCYB331K50
	C655	ELECT. CAPACITOR	CEAT4R7M50
	C656	ELECT. CAPACITOR	CEAT4R7M50
	C657	CERAMIC CAPACITOR	CCCSL6R0D50
	C658	CERAMIC CAPACITOR	CCCSL6R0D50
	C659	CERAMIC CAPACITOR	CCCSL6R0D50
	C660	CERAMIC CAPACITOR	CCCSL6R0D50
	C661	ELECT. CAPACITOR	CEAT101M16
	C662	ELECT. CAPACITOR	CEAT101M16
	C665	ELECT. CAPACITOR	CEANP2R2M50
	C666	ELECT. CAPACITOR	CEANP2R2M50
	C691	CERAMIC CAPACITOR	CKCYB102K50
	C692	ELECT. CAPACITOR	CEAT221M10
	C701	ELECT. CAPACITOR (4700μF/71V)	ACH7137

Mark	No.	Description	Part No.
	C702	ELECT.CAPACITOR (4700μF/71V)	ACH7137
	C703	ELECT.CAPACITOR (3300μF/42V)	ACH7135
	C704	ELECT.CAPACITOR (3300μF/42V)	ACH7135
	C705	ELECT. CAPACITOR	CEAT100M2A
	C706	ELECT. CAPACITOR	CEAT100M2A
	C707	CKA (0.01μF/AC250V)	ACG1005
	C708	CKA (0.01μF/AC250V)	ACG1005
	C711	ELECT. CAPACITOR	CEAT101M35
	C712	ELECT. CAPACITOR	CEAT101M10
	C751	AUDIO FILM CAPACITOR	CFTYA104J50
	C752	AUDIO FILM CAPACITOR	CFTYA104J50
	C755	AUDIO FILM CAPACITOR	CFTYA104J50
	C761	AUDIO FILM CAPACITOR	CFTYA104J50
	C762	AUDIO FILM CAPACITOR	CFTYA104J50

RESISTORS

△	R51	RESISTOR(2.2MΩ/ 1/2W)	RCN1080
△	R52	CARBON FILM RESISTOR	RD1/2PM270J
△	R615	RESISTOR (0.22Ω/5W)	ACN7094
△	R616	RESISTOR (0.22Ω/5W)	ACN7094
△	R638	RESISTOR (0.22Ω/5W)	ACN7094
△	R665	RESISTOR (0.22Ω/5W)	ACN7094
△	R666	RESISTOR (0.22Ω/5W)	ACN7094
△	R711	METAL OXIDE RESISTOR	RS2LMF392J
△	R751	CARBON FILM RESISTOR	RD1/4PMF101J
△	R752	CARBON FILM RESISTOR	RD1/4PMF101J
△	R753	METAL OXIDE RESISTOR	RS1LMF4R7J
△	R754	METAL OXIDE RESISTOR	RS1LMF4R7J
△	R755	CARBON FILM RESISTOR	RD1/4PMF101J
△	R756	METAL OXIDE RESISTOR	RS1LMF4R7J
△	R761	CARBON FILM RESISTOR	RD1/4PMF101J
△	R762	CARBON FILM RESISTOR	RD1/4PMF101J
△	R763	METAL OXIDE RESISTOR	RS1LMF4R7J
△	R764	METAL OXIDE RESISTOR	RS1LMF4R7J
	Other Resistors		RD1/4PU□□□J

OTHERS

	51	AC SOCKET 1-P	AKP1060
	701	7P CABLE HOLDER	51048-0700
	CN51	AC CODE SOCKET	RKP1751
	CN53	22P CONNECTOR	52045-2245
	CN601	16P PLUG	KM200TA16
	CN751	SPEAKER TERMINAL 6-P	AKE7020
	CN753	PIN JACK 1-P	AKB7042
	CN754	SPEAKER TERMINAL 8-P	AKE7057
	H51	FUSE CLIP	AKR7001
	H52	FUSE CLIP	AKR7001
	H53	FUSE CLIP	AKR7001
	H54	FUSE CLIP	AKR7001
	H701	FUSE CLIP	AKR7001
	H702	FUSE CLIP	AKR7001
△	T51	STANDBY TRANSFORMER	ATT7057
	KN51	EARTH METAL FITTING	VNF1084
	KN601	EARTH METAL FITTING	VNF1084

D TRANS2 ASSY**SEMICONDUCTORS**

△	IC851	PROTECTOR (1.6A)	AEK7012
△	IC852	PROTECTOR (1.6A)	AEK7012
△	IC853	PROTECTOR (1.6A)	AEK7012

Mark	No.	Description	Part No.
OTHERS			
	851	7P CABLE HOLDER	51048-0700

E TRANS3 ASSY

TRANS3 ASSY has no service part.

F REGULATOR ASSY**SEMICONDUCTORS**

IC801	REGULATOR IC	NJM78M12FA
IC802	REGULATOR IC	NJM79M12FA
IC803	REGULATOR IC	NJM78M05FA
IC804	REGULATOR IC	NJM78M05FA
Q801	TRANSISTOR	KRA103M

Q802	TRANSISTOR	KRC101M
Q803	TRANSISTOR	KRA103M
Q804	TRANSISTOR	KRC101M
Q805	TRANSISTOR	KRA103M
Q806	TRANSISTOR	KRC101M

△	D801	DIODE	S5688G
△	D802	DIODE	S5688G
△	D803	DIODE	S5688G
△	D804	DIODE	S5688G
△	D805	DIODE	S5688G

△	D806	DIODE	S5688G
△	D807	DIODE	S5688G
△	D808	DIODE	S5688G

CAPACITORS

C801	ELECT. CAPACITOR	CEAT222M25
C802	ELECT. CAPACITOR	CEAT222M25
C803	CERAMIC CAPACITOR	CGCYX103M25
C804	CERAMIC CAPACITOR	CGCYX103M25
C805	ELECT. CAPACITOR	CEAT101M16

C806	ELECT. CAPACITOR	CEAT101M16
C807	CERAMIC CAPACITOR	CGCYX103M25
C808	ELECT. CAPACITOR	CEAT101M10
C809	ELECT. CAPACITOR	CEAT222M16
C810	CERAMIC CAPACITOR	CGCYX103M25

C811	ELECT. CAPACITOR	CEAT101M10
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OTHERS

CN801	22P CONNECTOR	52045-2245
CN802	19P PLUG	KM200TA19
CN803	5P PLUG	KM200TA5

G TRANS1 ASSY

TRANS1 ASSY has no service part.

H VIDEO&6CH IN ASSY**SEMICONDUCTORS**

IC301	VIDEO SW IC	NJM2296M
IC302	IC	NJM4558MD
IC303	IC	NJM4558MD
Q301	TRANSISTOR	2SC3377
Q302	TRANSISTOR	2SA1515

VSX-D409, VSX-D309

Mark	No.	Description	Part No.
	Q303	TRANSISTOR	2SC2878
	D301	DIODE	1SS355
	D302	DIODE	1SS355
	D303	CHIP ZENER DIODE	UDZS6.2B
	D304	CHIP ZENER DIODE	UDZS6.2B
	D305	DIODE	1SS355
	D306	DIODE	1SS355

CAPACITORS

C302	CERAMIC CAPACITOR	CKSQYB103K50
C304	CERAMIC CAPACITOR	CKSQYB221K50
C305	CERAMIC CAPACITOR	CKSQYB221K50
C306	CERAMIC CAPACITOR	CKSQYB221K50
C307	ELECT. CAPACITOR	CEAT470M25
C308	ELECT. CAPACITOR	CEAT470M25
C309	ELECT. CAPACITOR	CEAT470M25
C310	ELECT. CAPACITOR	CEAT470M25
C311	CERAMIC CAPACITOR	CKSQYB473K50
C312	ELECT. CAPACITOR	CEAT470M25
C313	CERAMIC CAPACITOR	CKSQYB473K50
C314	ELECT. CAPACITOR	CEAT470M25
C315	CERAMIC CAPACITOR	CKSQYB103K50
C316	CERAMIC CAPACITOR	CKSQYB103K50
C317	CERAMIC CAPACITOR	CKSQYB221K50
C318	CERAMIC CAPACITOR	CKSQYB221K50
C319	CHIP CAPACITOR	CCSQCH101J50
C320	CHIP CAPACITOR	CCSQCH101J50
C321	ELECT. CAPACITOR	CEAT4R7M50
C322	CERAMIC CAPACITOR	CKSQYB103K50
C323	CERAMIC CAPACITOR	CKSQYB103K50
C324	ELECT. CAPACITOR	CEAT4R7M50
C325	CERAMIC CAPACITOR	CKSQYB221K50
C326	CERAMIC CAPACITOR	CKSQYB221K50
C327	CHIP CAPACITOR	CCSQCH101J50
C328	CHIP CAPACITOR	CCSQCH101J50
C329	CERAMIC CAPACITOR	CKSQYB103K50
C330	CERAMIC CAPACITOR	CKSQYB103K50
C331	ELECT. CAPACITOR	CEAT4R7M50
C332	ELECT. CAPACITOR	CEAT4R7M50
C333	CERAMIC CAPACITOR	CKSQYB331K50
C338	ELECT. CAPACITOR	CEAT470M25
C342	CHIP CAPACITOR	CCSQCH101J50
C343	CHIP CAPACITOR	CCSQCH101J50
C344	CHIP CAPACITOR	CCSQCH101J50
C345	CHIP CAPACITOR	CCSQCH101J50
C346	CERAMIC CAPACITOR	CKSQYB104K16
C347	CHIP CAPACITOR	CCSQCH470J50

RESISTORS

△	R343	METAL OXIDE RESISTOR	RS1LMF820J
△	R344	METAL OXIDE RESISTOR	RS1LMF820J
	Other Resistors		RS1/10S□□□J

OTHERS

CN302	5P SOCKET	KP200TA5L
CN303	13P CONNECTOR	52044-1345
CN305	6P PIN JACK	AKB7123
CN307	PIN JACK(4P)	AKB7087
JA301	JACK	RKN1004

Mark	No.	Description	Part No.
		H.P. ASSY	
		SEMICONDUCTORS	
	Q551	TRANSISTOR	2SC2878
	Q552	TRANSISTOR	2SC2878

CAPACITORS

C551	CERAMIC CAPACITOR	CKSQYB104K16
C552	CERAMIC CAPACITOR	CKSQYB103K50
C553	CHIP CERAMIC C.	CCSQCH471J50
C555	CHIP CAPACITOR	CKSQYB223K50
C556	CHIP CAPACITOR	CKSQYB223K50

RESISTORS

△	R551	METAL OXIDE RESISTOR	RS1/2LMF121J
△	R552	METAL OXIDE RESISTOR	RS1/2LMF121J
	Other Resistors		RS1/10S□□□J

OTHERS

551	CABLE HOLDER(4P)	51063-0405
JA551	JACK	RKN1002

J DIGITAL IN ASSY

SEMICONDUCTORS

IC1901	LOGIC IC	TC74ACT151F
IC1902	LOGIC IC	TC74HCU04AF

COILS AND FILTERS

F1901	CHIP BEAD	DTF1067
F1902	CHIP BEAD	DTF1067
F1903	CHIP BEAD	DTF1067
F1904	CHIP BEAD	DTF1067

CAPACITORS

C1901	CERAMIC CAPACITOR	CKSQYB104K25
C1902	CERAMIC CAPACITOR	CKSQYB104K25
C1904	ELECT. CAPACITOR	CEAT101M10
C1905	ELECT. CAPACITOR	CEAT101M10
C1906	CERAMIC CAPACITOR	CKSQYB103K50
C1907	CHIP CERAMIC C.	CCSQCH271J50
C1908	CERAMIC CAPACITOR	CKSQYB104K25
C1909	CERAMIC CAPACITOR	CKSQYB104K25
C1910	CERAMIC CAPACITOR	CKSQYB103K50
C1911	CERAMIC CAPACITOR	CCSQCH560J50
C1912	ELECT. CAPACITOR	CEAT101M10
C1913	CERAMIC CAPACITOR	CKSQYB103K50
C1914	CHIP CERAMIC C.	CCSQCH271J50
C1915	CHIP CAPACITOR	CKSQYB102K50
C1916	CHIP CERAMIC C.	CCSQCH471J50
C1917	CHIP CERAMIC C.	CCSQCH220J50
C1918	CHIP CERAMIC C.	CCSQCH221J50
C1919	CERAMIC CAPACITOR	CKSQYB103K50
C1920	CERAMIC CAPACITOR	CKSQYB103K50
C1921	CERAMIC CAPACITOR	CKSQYB104K25
C1922	CERAMIC CAPACITOR	CKSQYB103K50

RESISTORS

All Resistors		RS1/10S□□□J
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OTHERS

CN1901	CONNECTOR 6P	52045-0645
JA1901	JACK	VKB1077
JA1902	OPTICAL RECEIV MOD.	GP1F32R
JA1903	OPTICAL RECEIV MOD.	GP1F32R

Mark	No.	Description	Part No.
K FRONT ASSY			
SEMICONDUCTORS			
	IC401	CONTROL MCU	PDG247A
	Q401	TRANSISTOR	KRA103M
	Q402	TRANSISTOR	KRA103M
	Q403	TRANSISTOR	KRC101M
	Q405	TRANSISTOR	2SA933S
	Q441	TRANSISTOR	KRC101M
	Q442	TRANSISTOR	KRA103M
	Q471	TRANSISTOR	KRA103M
	D401	CHIP DIODE ARRAY	DAP202K
	D403	DIODE	DAN217
	D404	CHIP DIODE ARRAY	DAP202K
	D405	DIODE	DAN217
	D407	DIODE	1SS355
	D408	DIODE	1SS355
	D442	DIODE	1SS355
COILS AND FILTERS			
	L401	RADIAL INDUCTOR	LFEA2R2J
SWITCHES AND RELAYS			
	S451	SWITCH	XSG3001
	S452	SWITCH	XSG3001
	S453	SWITCH	XSG3001
	S454	SWITCH	XSG3001
	S455	SWITCH	XSG3001
	S456	SWITCH	XSG3001
	S457	SWITCH	XSG3001
	S458	SWITCH	XSG3001
	S459	SWITCH	XSG3001
	S460	SWITCH	XSG3001
	S461	SWITCH	XSG3001
	S462	SWITCH	XSG3001
	S463	SWITCH	XSG3001
	S464	SWITCH	XSG3001
	S465	SWITCH	XSG3001
	S466	SWITCH	XSG3001
	S467	SWITCH	XSG3001
	S469	SWITCH	XSG3001
	S470	SWITCH	XSG3001
	S471	SWITCH	XSG3001
	S472	SWITCH	XSG3001
	S473	SWITCH	XSG3001
	S474	SWITCH	XSG3001
	S475	SWITCH	XSG3001
	S476	SWITCH	XSG3001
CAPACITORS			
	C401	CERAMIC CAPACITOR	CKSQYB103K50
	C402	ELECT. CAPACITOR	CEAT221M6R3
	C403	CERAMIC CAPACITOR	CKSQYB103K50
	C404	EDL CAPACITOR (0.047F/5.5V)	ACH7017
	C405	ELECT. CAPACITOR	CEAT221M6R3
	C406	CERAMIC CAPACITOR	CKSQYB473K16
	C407	CERAMIC CAPACITOR	CKSQYB473K16
	C408	CERAMIC CAPACITOR	CKSQYB104K16
	C409	ELECT. CAPACITOR	CEAT2R2M50
	C410	ELECT. CAPACITOR	CEAT2R2M50

Mark	No.	Description	Part No.
	C411	CERAMIC CAPACITOR	CKSQYB103K50
	C412	ELECT. CAPACITOR	CEAT470M50
	C416	CERAMIC CAPACITOR	CKSQYB104K16
	C418	CERAMIC CAPACITOR	CKSQYB104K16
	C420	ELECTROLYTIC CAPACIT (220μF/35V)	ACH7101
	C441	CERAMIC CAPACITOR	CKSQYB103K50
	C442	ELECT. CAPACITOR	CEJA470M10
	C451	CHIP CAPACITOR	CKSQYB102K50
	C452	CHIP CAPACITOR	CKSQYB102K50
	C453	CHIP CAPACITOR	CKSQYB102K50
	C454	CHIP CAPACITOR	CKSQYB102K50
	C491	CERAMIC CAPACITOR	CKSQYB104K16
	C492	CERAMIC CAPACITOR	CKSQYB104K16
	C493	CERAMIC CAPACITOR	CKSQYB104K16
	C494	CERAMIC CAPACITOR	CKSQYB104K16
	C495	CHIP CAPACITOR	CKSQYB102K50
	C531	CERAMIC CAPACITOR	CKSQYB103K50
	C532	CERAMIC CAPACITOR	CKSQYB223K25

RESISTORS

All Resistors

RS1/10S□□□J

OTHERS

401	REMOTE RECEIVER UNIT	GP1U27X
403	CABLE HOLDER(4P)	51063-0405
471	CABLE HOLDER(4P)	51063-0405
491	CABLE HOLDER(3P)	51063-0305

CN401	19P CONNECTOR	52044-1945
CN402	32P CONNECTOR	52044-3245
V401	FL TUBE	AAV7072
X401	CERAMIC RESONATOR (7.2MHz)	ASS7018

L R.ENCODER ASSY**SWITCHES AND RELAYS**

S511	ROTARY ENCODER	ASX7004
------	----------------	---------

OTHERS

511	CABLE HOLDER(3P)	51063-0305
-----	------------------	------------

M POWER SW ASSY**SEMICONDUCTORS**

D501	LED	BR3371XJ30A
------	-----	-------------

SWITCHES AND RELAYS

S501	SWITCH	XSG3001
------	--------	---------

RESISTORS

R501	CHIP RESISTOR	RS1/10S271J
------	---------------	-------------

OTHERS

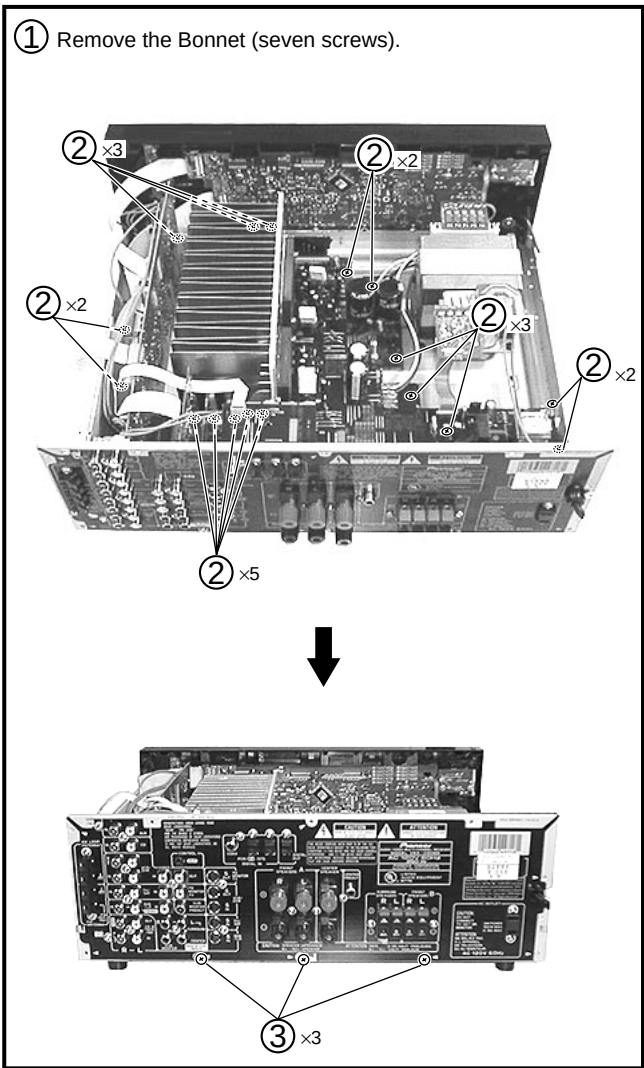
501	CABLE HOLDER(4P)	51063-0405
-----	------------------	------------

6. ADJUSTMENT

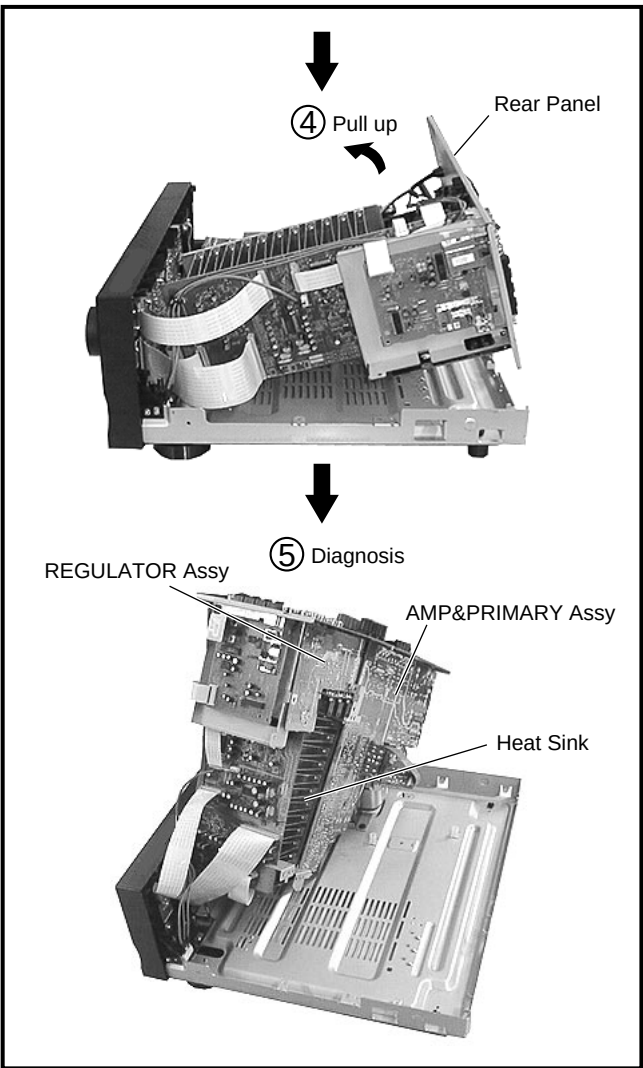
There is no information to be shown in this chapter.

7. GENERAL INFORMATION
7.1 DISASSEMBLY

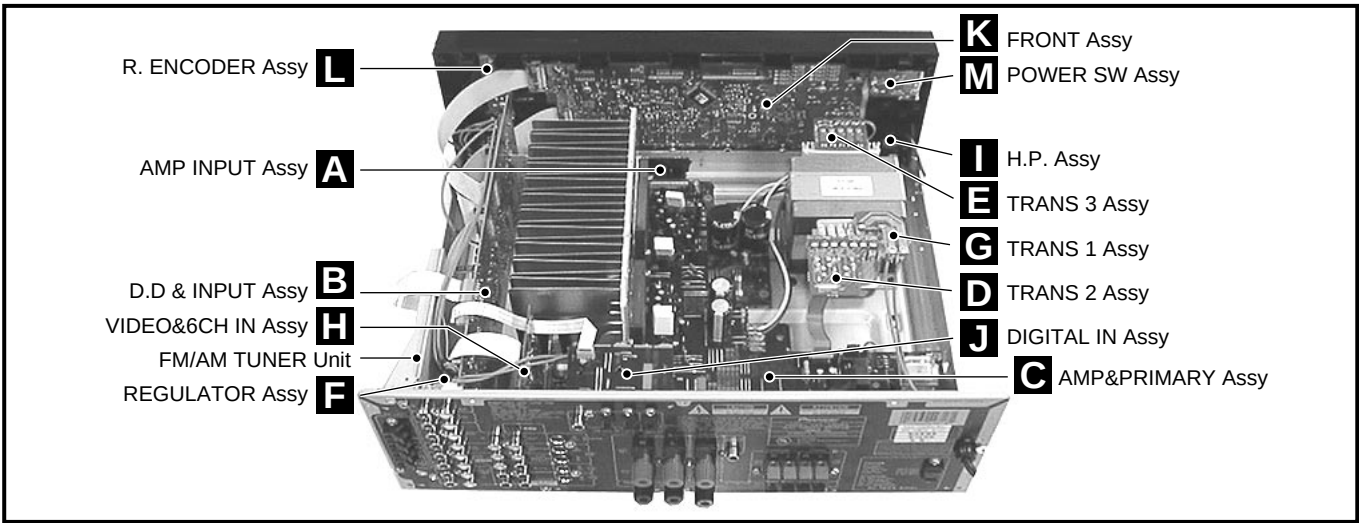
■ Diagnosis



Note : This photograph shows other models.
However, the work method is the same.



■ PCB Location



7.2 PARTS

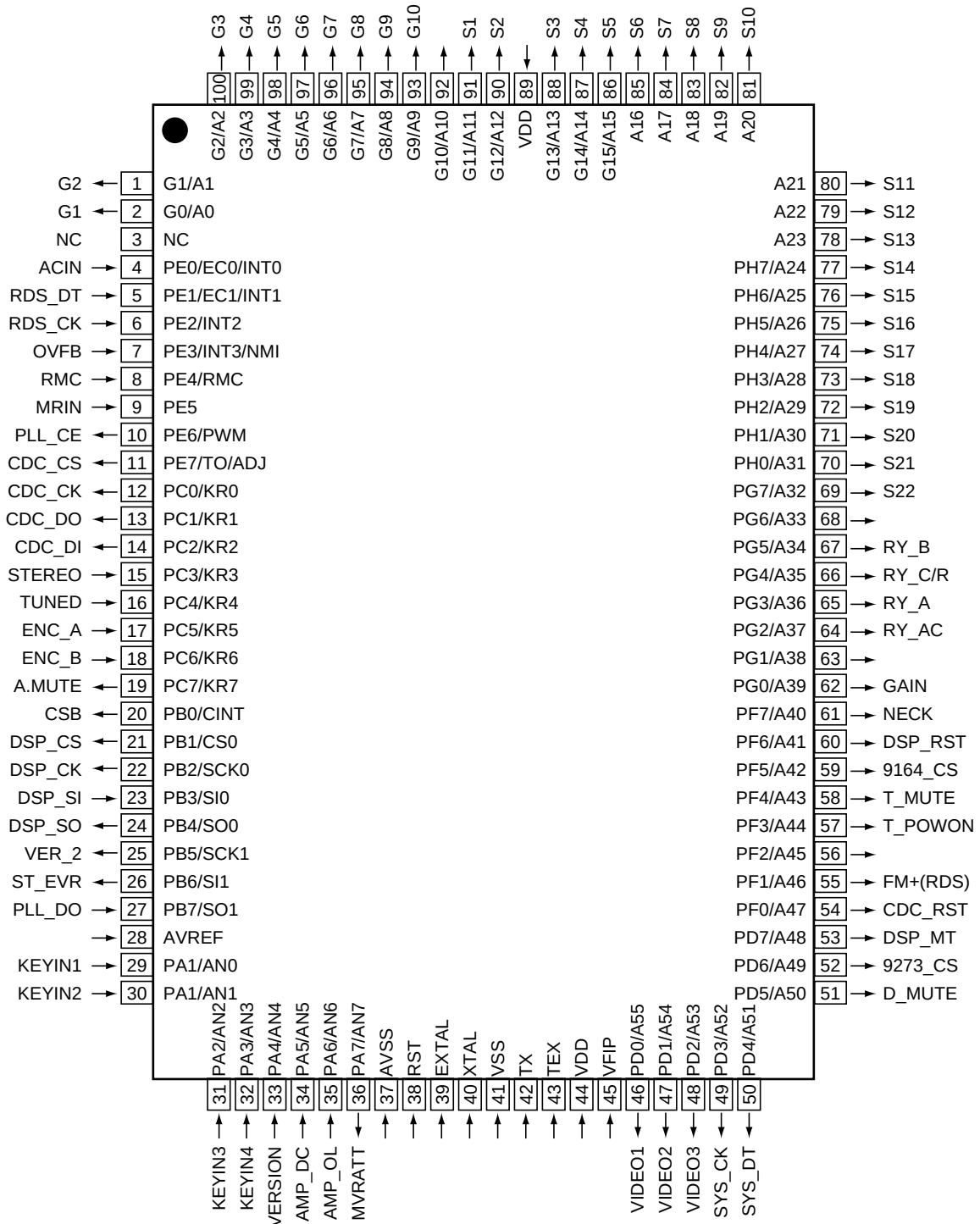
7.2.1 IC

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

■ PDG247A (FRONT ASSY : IC401)

- System Control MCU

- Pin Arrangement (Top View)



VSX-D409, VSX-D309

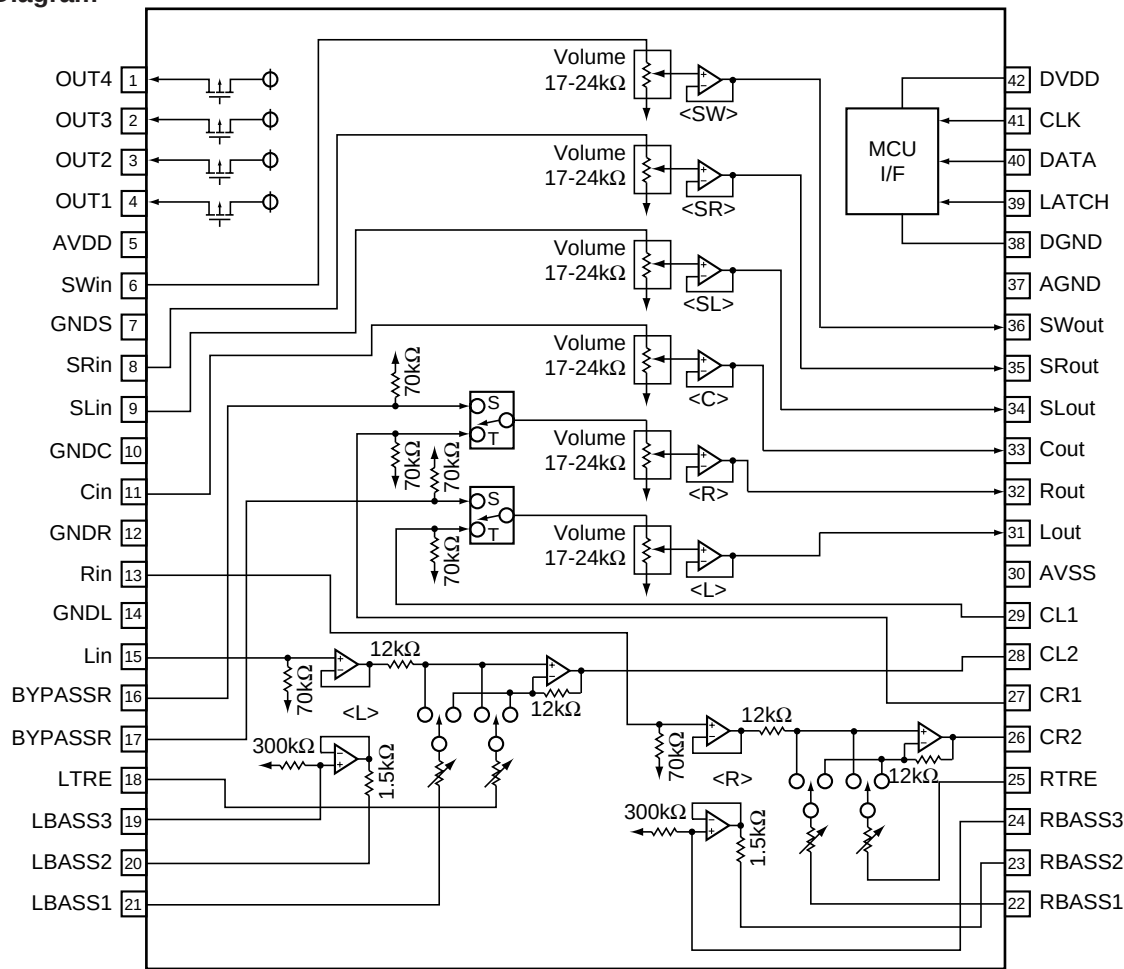
● Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	G2	O	Grid output 2	H
2	G1	O	Grid output 1	H
3	NC	–	Connect to VDD	
4	ACIN	I	AC pulse input	
5	RDS_DT	I	Serial control DATA signal of RDS communication	
6	RDS_CK	I	Serial control CLOCK signal of RDS communication	
7	DIRLOCK	I	ERR/OVER input from CODEC	
8	RMC	I	Remote control signal input (no-carrier signal)	
9	MRIN	I	MULTI-ROOM input	
10	PLL_CE	O	Chip select signal for communication with LC72131 (tuner)	H
11	CDC_CS	O	CODEC chip select	
12	CDC_CK	O	CODEC, TC9164 control clock	
13	CDC_DO	O	CODEC, TC9164 control data output	
14	CDC_DI	I	Data input from CODEC	
15	STEREO	I	Stereo/Monoral signal judgment signal	
16	TUNED	I	TUNED information	
17	ENC_A	I	Rotary encoder signal input A	
18	ENC_B	I	Rotary encoder signal input B	
19	AMUTE	O	Audio mute	L
20	CSB	O	Chip select for control of YSS912 sub DSP	L
21	DSP_CS	O	Chip select for control of YSS912 main DSP	L
22	DSP_CK	O	Clock signal for communication with YSS912	H
23	DSP_SI	I	DATA input for communication with YSS912	
24	DSP_SO	O	DATA output signal for communication with YSS912	H
25	VER_2	I	Destination switch 2	
26	ST_EVR	O	Strobe signal for communication with electric volume IC	H
27	PLL_DO	I	Data input signal for communication with LC72131 (tuner)	
28	AVref	–	Connect to VDD	
29	KEYIN1	I	Key input A/D conversion port 1	
30	KEYIN2	I	Key input A/D conversion port 2	
31	KEYIN3	I	Key input A/D conversion port 3	
32	KEYIN4	I	Key input A/D conversion port 4	
33	VER_1	I	Destination switch (A/D input)	
34	AMP_DC	I	DC abnormality detection of protection circuit (L : Abnormality detection)	L
35	AMP_OL	I	Over-load detection of protection circuit (L : Abnormality detection)	L
36	MVRATT	O	ATT control of master volume (L : Less than -15dB)	H
37	AVSS	–	Connect to VSS	
38	RST	–	Reset	
39	EXTAL	–	Connect to the oscillator (7.2MHz)	
40	XTAL	–		
41	VSS	–	Connect to VSS	
42	TX	–	Open	
43	TEX	–	Connect to VSS	
44	VDD	–	+5V	
45	VFDP	–	-30V	
46	VIDEO1	O	NJM2296D control	H
47	VIDEO2			
48	VIDEO3			
49	SYS_DT	O	Data signal for communication with M62446, TC9163, TC9164 and PLL	H
50	SYS_CK	O	Clock signal for communication with M62446, TC9163, TC9164 and PLL	H

No.	Pin Name	I/O	Pin Function	Active
51	D_MUTE	O	Digital mute (Not used)	H
52	9273_CS	O	TC9273 Chip select	H
53	DSP_MT	O	DSP mute (ASSY mute)	H
54	CDC_RST	O	CODEC reset	H
55	FM+(RDS)	O	Tr switch ON/OFF for power supply of RDS decoder (L : AM, power OFF , H : Other)	H
56		O	Not used	
57	T_POWON	O	Tuner module ON/OFF (North America model only)	H
58	T_MUTE	O	Tuner mute	H
59	9164_CS	O	TC9163, TC9164 Chip select	H
60	DSP_RST	O	YSS912 reset	
61	NECK_SEL	O	5.1ch, surround mode and A+B Stereo : H / Stereo : L	H/L
62	GAIN_SEL	O	Gain select (5.1ch and Stereo of analog input : H)	H
63		O	Not used	H
64	RY_AC	O	AC relay ON/OFF	H
65	RY_A	O	Speaker A relay ON/OFF	H
66	RY_C/R	O	Rear/Center Speaker relay ON/OFF	H
67		O	Not used	H
68		O	Not used	H
69	S22	O	Segment output 22	H
70	S21		Segment output 21	
71	S20		Segment output 20	
72	S19		Segment output 19	
73	S18		Segment output 18	
74	S17		Segment output 17	
75	S16		Segment output 16	
76	S15		Segment output 15	
77	S14		Segment output 14	
78	S13		Segment output 13	
79	S12		Segment output 12	
80	S11		Segment output 11	
81	S10		Segment output 10	
82	S9		Segment output 9	
83	S8		Segment output 8	
84	S7		Segment output 7	
85	S6		Segment output 6	
86	S5		Segment output 5	
87	S4		Segment output 4	
88	S3		Segment output 3	
89	VDD	–	5V	
90	S2	O	Segment output 2	H
91	S1		Segment output 1	
92			Not used (Fixed Vfdp)	
93	G10	O	Grid output 10	H
94	G9		Grid output 9	
95	G8		Grid output 8	
96	G7		Grid output 7	
97	G6		Grid output 6	
98	G5		Grid output 5	
99	G4		Grid output 4	
100	G3		Grid output 3	

■ M62446FP (D.D & INPUT ASSY : IC103)

- Sound Controller IC (Volume and Tone Control)
- Block Diagram



• Pin Function

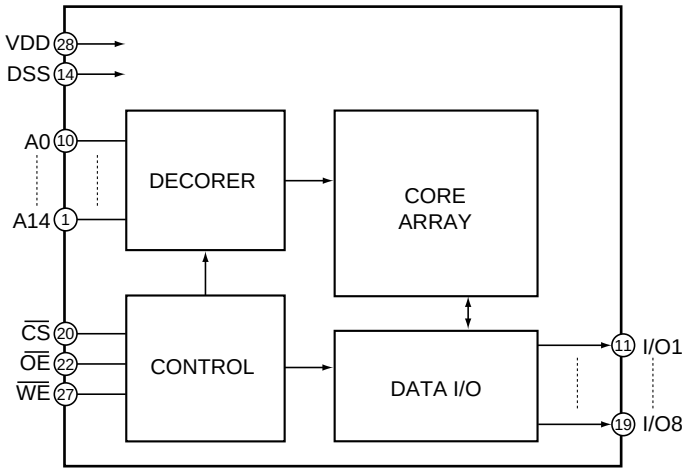
No.	Pin Name	Function
1	OUT4	Output port (open drain of PchTr)
2	OUT3	
3	OUT2	
4	OUT1	
5	AVDD	Analog positive power supply port
7	GNDS	GND (connect to analog ground)
10	GNDC	
12	GNDR	
14	GNDL	
6	SWin	Volume input
8	SRin	
9	SLin	
11	Cin	Volume output
36	SWout	
35	SRout	
34	SLout	
33	Cout	TONE input
13	Rin	
15	Lin	
16	BYPASSR	
17	BYPASSL	L and R Volume input at bypass
31	Lout	L output
32	Rout	R output

No.	Pin Name	Function
18	LTRE	TONE TREBLE frequency control port
25	RTRE	
19	LBASS3	TONE BASS frequency control port
24	RBASS3	
20	LBASS2	
23	RBASS2	
21	LBASS1	TONE output port
22	RBASS1	
26	CR2	L and R volume input
28	CL2	
27	CR1	L output
29	CL1	
31	Lout	R output
32	Rout	
30	AVSS	Analog negative power supply port
37	AGND	Analog ground port
38	DGND	Digital ground port
39	LATCH	Latch input port
40	DATA	Data input port
41	CLK	Clock input port for data transmission
42	DVDD	Digital power supply port

■ W24257AJ-12 (D.D & INPUT ASSY : IC1301)

• 32K × 8 High-Speed CMOS Static RAM

● Block Diagram



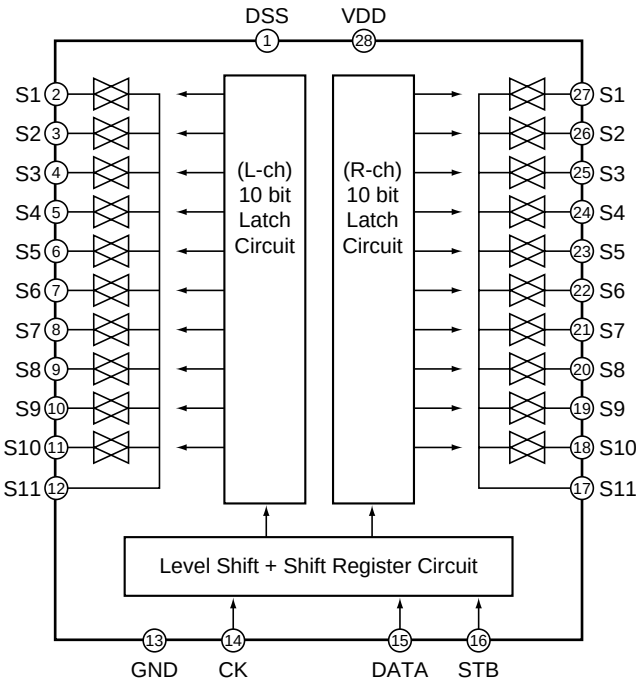
● Pin Function

No.	Pin Name	Function
1	A14	Addres Inputs
2	A12	
3	A7	
4	A6	
5	A5	
6	A4	
7	A3	
8	A2	
9	A1	
10	A0	
21	A10	Data Inputs/Outputs
23	A11	
24	A9	
25	A8	
26	A13	
11	I/O1	
12	I/O2	
13	I/O3	
15	I/O4	
16	I/O5	
17	I/O6	Ground
18	I/O7	
19	I/O8	
14	Vss	
20	CS	Chip Select Input
22	OE	Output Enable Input
27	WE	Write Enable Input
28	Vdd	Power Supply

■ TC9273F-007 (D.D & INPUT ASSY : IC101)

• Analog Switch Array

● Block Diagram



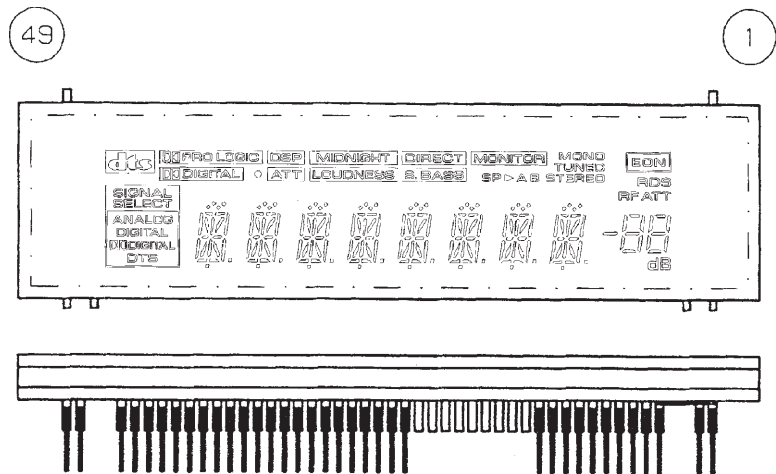
● Pin Function

No.	Pin Name	Function
1	VSS	Minus Power Supply
2, 27	S1	Input and Output
3, 26	S2	
4, 25	S3	
5, 24	S4	
6, 23	S5	
7, 22	S6	
8, 21	S7	
9, 20	S8	
10, 19	S9	
21, 18	S10	
26, 17	S11	Digital Ground
13	GND	
14	CK	Clock Input
15	DATA	Data Input
16	STB	Strobe Input
28	VDD	Plus Power Supply

7.2.2 DISPLAY

■ AAV7072 (FRONT ASSY : V401)

- FL DISPLAY
- Pin Assignment

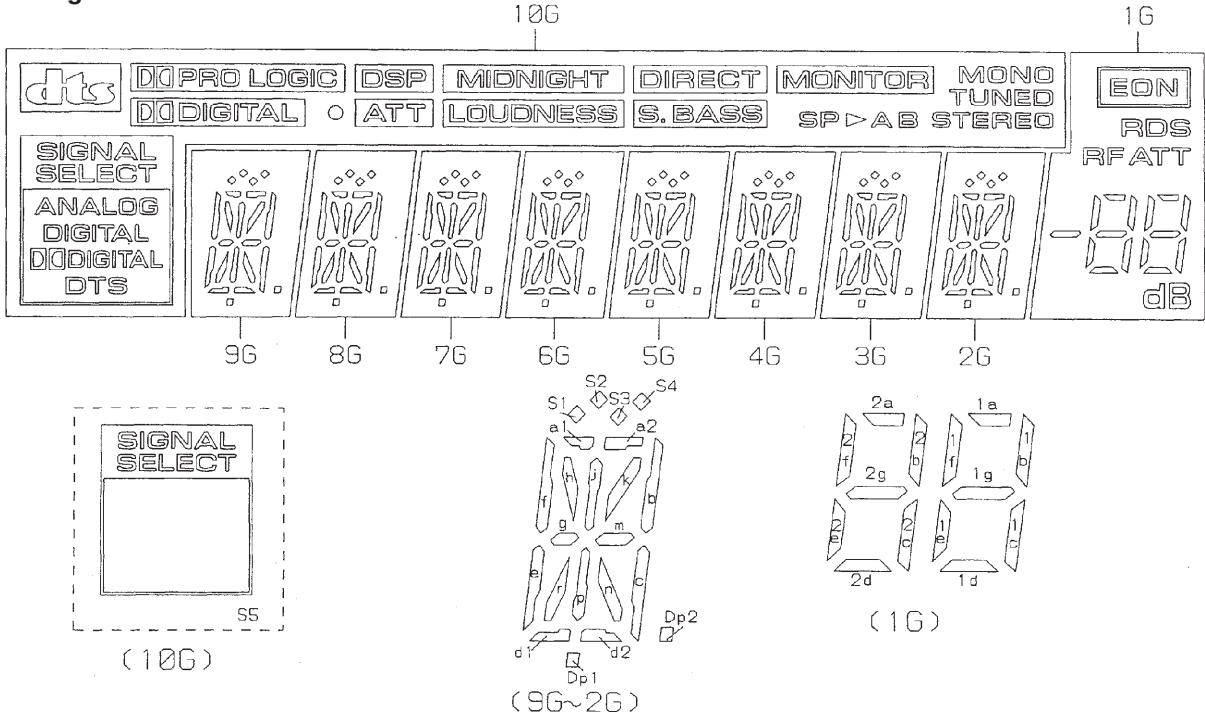


• Pin Connection

PIN NO.	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	0	9	8	7	6	5	4	3	2	1			
CONNECTION	F	F	N	N	2	2	2	1	1	1	1	1	1	1	1	1	P	P	P	P	P	P	P	P	P	N	N	N	N	N	N	N	N	0	9	8	7	6	5	4	3	2	1	N	N	F	F

NOTE 1) F1, F2 --- Filament
2) NP ----- No pin
3) NX ----- No extend pin
4) DL ----- Datum Line
5) 1G~10G --- Grid

• Grid Assignment



● Anode Connection

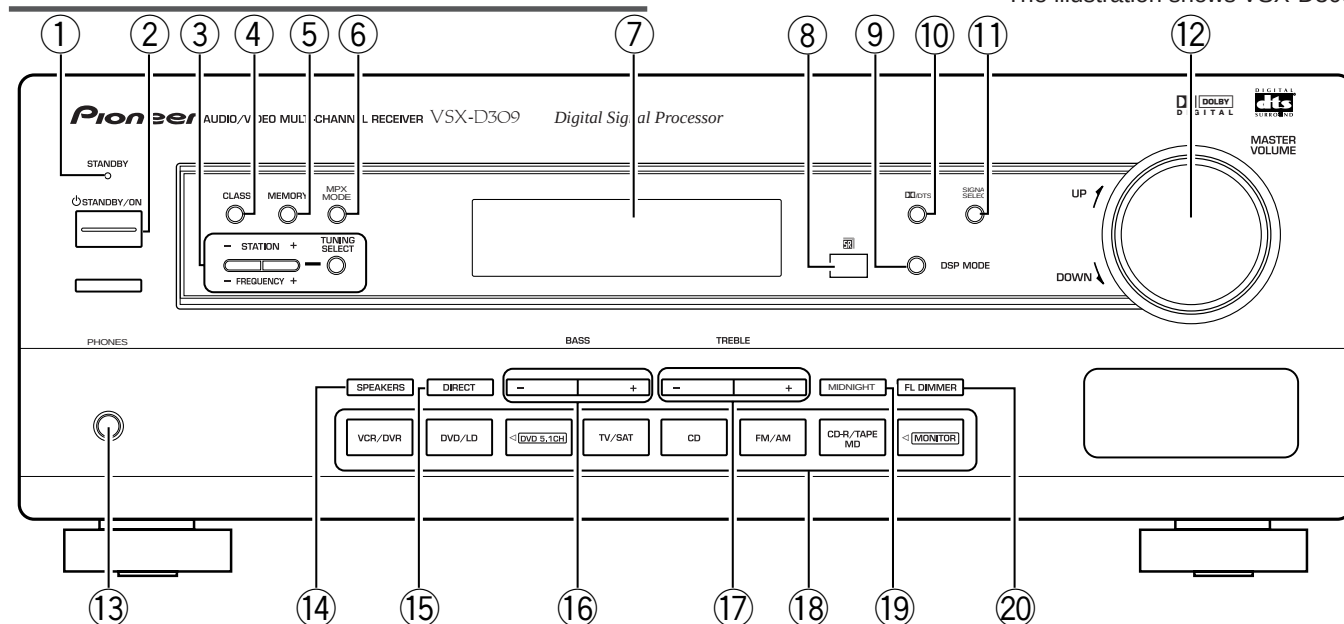
	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	STEREO	a1	a1	a1	a1	a1	a1	a1	a1	dB
P2	TUNED	a2	a2	a2	a2	a2	a2	a2	a2	2a
P3	MONO	h	h	h	h	h	h	h	h	2b
P4	B	j	j	j	j	j	j	j	j	2f
P5	A	k	k	k	k	k	k	k	k	2g
P6	SP	b	b	b	b	b	b	b	b	2c
P7	MONITOR	f	f	f	f	f	f	f	f	2e
P8	S. BASS	m	m	m	m	m	m	m	m	2d
P9	DIRECT	g	g	g	g	g	g	g	g	1a
P10	LOUDNESS	c	c	c	c	c	c	c	c	1b
P11	MIDNIGHT	e	e	e	e	e	e	e	e	1f
P12	ATT	r	r	r	r	r	r	r	r	1g
P13	DSP	p	p	p	p	p	p	p	p	1c
P14	○	n	n	n	n	n	n	n	n	1e
P15	DIGITAL	d1	d1	d1	d1	d1	d1	d1	d1	1d
P16	PRO LOGIC	d2	d2	d2	d2	d2	d2	d2	d2	
P17	DTS	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	RDS
P18	DIGITAL	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	RFATT
P19	DIGITAL	S1	S1	S1	S1	S1	S1	S1	S1	EON
P20	ANALOG	S4	S4	S4	S4	S4	S4	S4	S4	(EON)
P21	S5	S2	S2	S2	S2	S2	S2	S2	S2	-
P22	dB	S3	S3	S3	S3	S3	S3	S3	S3	-

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Front Panel

The illustration shows VSX-D309.



① STANDBY indicator

Lights when the receiver is in standby mode (note that the receiver consumes a small amount of power (1W) in standby mode).

② STANDBY/ON button

Switches the receiver between on and standby.(note that the receiver consumes a small amount of power (1W) in standby mode).

③ STATION (+/-), FREQUENCY (+/-), TUNING SELECT buttons

STATION (+/-)

Selects station memories when using the tuner.

FREQUENCY (+/-)

Selects the frequency when using the tuner.

TUNING SELECT

Switches between station memory and frequency select modes.

④ CLASS button

Switches between the three banks (classes) of station memories.

⑤ MEMORY button

Press to memorize a station for recall using the STATION (+/-) buttons.

⑥ MPX button

If the **TUNED** or **STEREO** indicators don't light when tuning to an FM station because the signal is weak, press the MPX button to switch the receiver into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast.

⑦ Display

⑧ Remote sensor

Receives the signals from the remote control.

⑨ DSP MODE button

Use to switch between the various DSP modes available (**HALL1**, **HALL 2**, **JAZZ**, **DANCE**, **THEATER1**, **THEATER 2**) and **DSP off**. Use to create different surround sound effects from any stereo source.

⑩ /DTS button

Use to switch between the various Dolby/DTS surround modes.

⑪ SIGNAL SELECT button

Use to select between an analog or digital signal.

⑫ MASTER VOLUME

Use to set the overall listening volume.

⑬ PHONES jack

Use to connect headphones but this does not switch the speakers off.

⑭ SPEAKER button

Use to switch the speaker system on or off.

⑮ DIRECT button

Use to switch DIRECT playback on or off. This mode bypasses the tone controls and channel levels for the most accurate reproduction of a program source.

⑯ BASS (+/-) buttons

Use to increase/decrease bass (within a range of -6dB to 6dB in 2dB steps).

⑰ TREBLE (+/-) buttons

Use to increase/decrease treble (within a range of -6dB to 6dB in 2dB steps).

⑱ Function buttons

Use to select a source for playback or recording.

⑲ MIDNIGHT button

Use when listening to movie soundtracks at low volume. This feature will enable you to hear quiet sounds and not get jolted by loud or sudden sound effects.

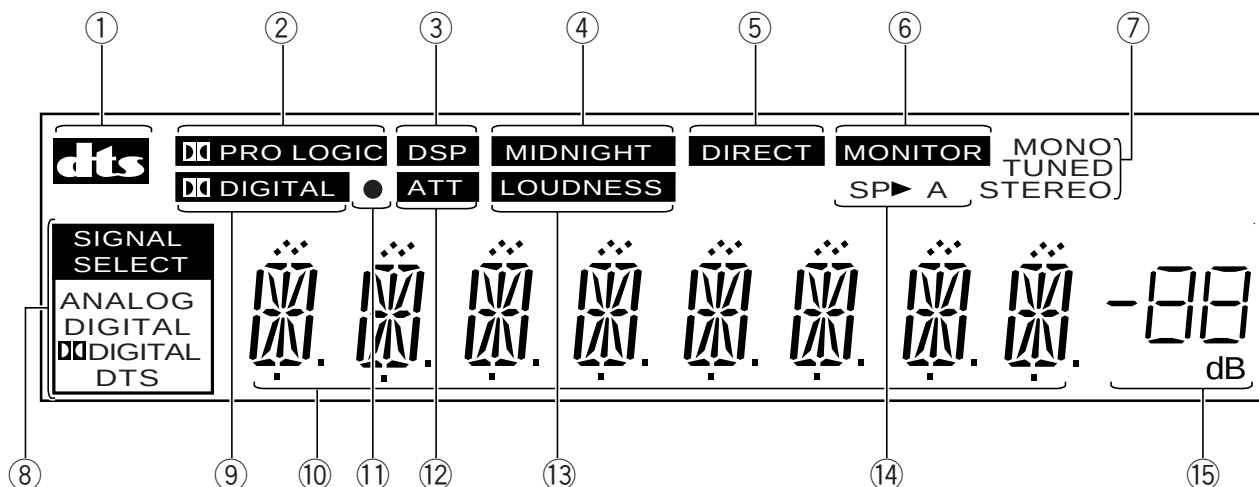
⑳ FL DIMMER button (VSX-D309)

Use this button to make the fluorescent display (FL) dimmer or brighter. There are three brightness settings as well as an off setting.

MONITOR button (VSX-D409)

Press to switch tape monitoring on/off.

Display



① DTS indicator

Lights when DTS mode is being used.

② PRO LOGIC indicator

When the PRO LOGIC Surround/DTS mode of the receiver is on, this lights to indicate playback of a two channel source.

③ DSP indicator

Lights when any Advanced Theater or DSP mode is selected.

④ MIDNIGHT indicator

Lights when MIDNIGHT listening mode is in use.

⑤ DIRECT indicator

Lights when source DIRECT is in use. This function bypasses all tone, balance, DSP and Dolby Surround effects.

⑥ MONITOR indicator

Lights when MONITOR is selected to hear a recording as it's being made.

⑦ TUNER indicators

MONO:

Lights when the mono mode is set using the MPX MODE button.

TUNED:

Lights when a broadcast is being received.

STEREO:

Lights when a stereo FM broadcast is being received in auto stereo mode.

⑧ SIGNAL SELECT indicators

Light to indicate the type of input signal assigned for the current component (see "Front Panel", ⑪, SIGNAL SELECT).

ANALOG : Lights when an analog signal is selected.

DIGITAL : Lights when a digital audio signal is selected.

DIGITAL : Lights when a DOLBY DIGITAL signal is played.

DTS: Lights when a source with DTS audio signals is played.

⑨ DIGITAL indicator

When the DIGITAL Surround/DTS mode of the receiver is on, this lights to indicate playback of a Dolby Digital signal.

⑩ CHARACTER display

Shows the radio frequency or function (DVD/LD, CD, etc.) receiver is using .

⑪ OVERLOAD indicator

This lights when an analog signal is too strong (the SIGNAL SELECT needs to be on ANALOG). It indicates the sound is distorting and the signal should be reduced.

⑫ ATT indicator

Lights when ATT is used to attenuate (reduce) the level of the input signal (can only be used in ANALOG mode).

⑬ LOUDNESS indicator

Lights when the LOUDNESS, used to boost the bass and treble in quiet listening, is on.

⑭ SPEAKER indicator

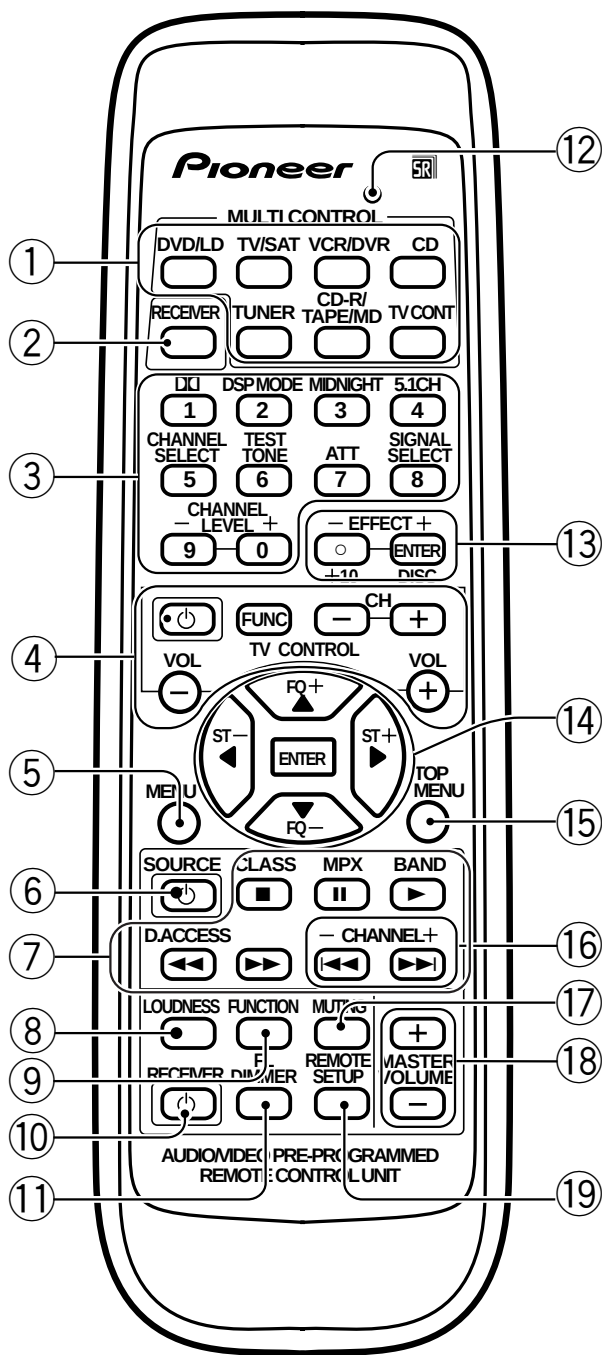
Shows if the speaker system is on or not. SP ►A means speakers are switched on. SP ► means speakers are switched off.

⑮ MASTER VOLUME LEVEL

Shows the overall volume level. Volume level is maintained even when the power is off. ---dB indicates the minimum level, and 0dB indicates the maximum level.

- Depending on the level settings you make for individual channels, the MAX level can range between -10dB and 0dB.

Remote Control



① MULTI CONTROL buttons

Use to put the receiver/remote control in the stated mode. For other equipment controls, see Controlling the Rest of Your System.

② RECEIVER button

Use this button when setting up the surround sound for the receiver.

③ NUMBER/MODE buttons

Use the number buttons to select the radio frequency in tuner DIRECT ACCESS mode or the tracks in CD, DVD mode etc.

Also, buttons marked with the following names have special functions. If you try to use one of these functions but the display flashes it means that function cannot be used in the current mode (for example DSP modes cannot be used when 5.1 CH setting is on).

DD
Use to put receiver in DOLBY DIGITAL and DTS modes. To use first press the RECEIVER button then operate this button.

DSP mode

Use to put receiver in one of the DSP modes. To use first press the RECEIVER button then operate this button.

MIDNIGHT

Use to put receiver in MIDNIGHT mode. To use first press the RECEIVER button then operate this button.

5.1 CH

When the DVD/LD or DVD 5.1 CH function is selected each press switches the DVD/LD input between DVD/LD and DVD 5.1 CH. To use first press the RECEIVER button then operate this button.

CHANNEL SELECT

Use to select a speaker when setting up the surround sound of the receiver. To use first press the RECEIVER button then operate this button.

TEST TONE

Use to sound the TEST TONE when setting up the surround sound of the receiver. To use first press the RECEIVER button then operate this button.

ATT

Use to attenuate (lower) the level of an analog input signal and prevent distortion. To use first press the RECEIVER button then operate this button.

CHANNEL LEVEL +/-

Use to set up the levels of the surround sound of the receiver. To use first press the RECEIVER button then operate this button.

SIGNAL SELECT

Use to select the proper signal (analog, digital) for the source you are inputting. To use first press the RECEIVER button then operate this button.

- ④ **THE FOLLOWING FOUR SETS OF BUTTONS ARE DEDICATED TV CONTROL. THEY ARE ONLY USED FOR CONTROLLING YOUR TV.**

FUNC button

Use select the TV function.

TV POWER button

Use to turn on the power of the TV.

TV CHANNEL +/- buttons

Use to change channels on your TV.

TV VOLUME +/- buttons

Use to adjust the volume on your TV.

- ⑤ **MENU button**

Use to access different menus associated with your DVD player.

- ⑥ **SOURCE button**

Use to turn on/off other components connected to the receiver.

- ⑦ **THE FOLLOWING BUTTONS ARE BOTH CONTROLS FOR OTHER COMPONENTS (LIKE A DVD PLAYER) AND DEDICATED TUNER CONTROLS. THE TUNER CONTROLS ARE EXPLAINED HERE. YOU CAN USE THEM AFTER YOU HAVE PUSHED THE TUNER MULTI CONTROL BUTTON.**

CLASS button

Use to switch between the three banks (classes) of station memories.

MPX MODE button

Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to MONO will improve the sound quality. Also, this is the pause button for CDs, tapes, DVDs, etc.

BAND button

Use to switch between the AM and FM band when in TUNER mode.

D. ACCESS button

Use to directly access a radio station by pressing the number of the station you want.

- ⑧ **LOUDNESS button**

Use to switch on the loudness. This feature is useful for getting good bass and treble sounds listening at low volumes.

- ⑨ **FUNCTION button**

Use select the playback or recording source. This button lets you cycle through the different functions of the receiver in the following order: CD, tuner, CDR/TAPE, VCDR/DVR, DVD/LD, DVD 5.1 CH., and TV/SAT. etc.

- ⑩ **RECEIVER  (POWER) button**

This switches between STANDBY mode and power ON for this receiver.

- ⑪ **FL DIMMER button**

Use this button to make the fluorescent display (FL) dimmer or brighter. There are three brightness settings as well as an off setting.

- ⑫ **LED DISPLAY**

This display flashes when a command is sent from the remote control to the receiver. It also flashes at other times, for example when teaching the receiver preset codes, with specific meanings.

- ⑬ **EFFECT +/- buttons**

Use to add or subtract the amount of effect in different DSP sound modes or advanced listening modes.

- ⑭ **    (FQ +/-) & ENTER buttons**

Use these arrow buttons when setting up your surround sound system. These buttons are also used to control DVD menus/options and for deck 1 of a double cassette deck player. The FQ +/- buttons can be used to find radio frequencies.

- ⑮ **TOP MENU button**

In DVD mode this button brings you to the top or most fundamental menu.

- ⑯ **CHANNEL +/- buttons**

Use to select the stations of memorized radio frequencies. Also use to skip tracks backward or forward on CDs, DVDs, etc.

- ⑰ **MUTING button**

Use to mute the sound or restore the sound if it has been muted.

- ⑱ **MASTER VOLUME +/- buttons**

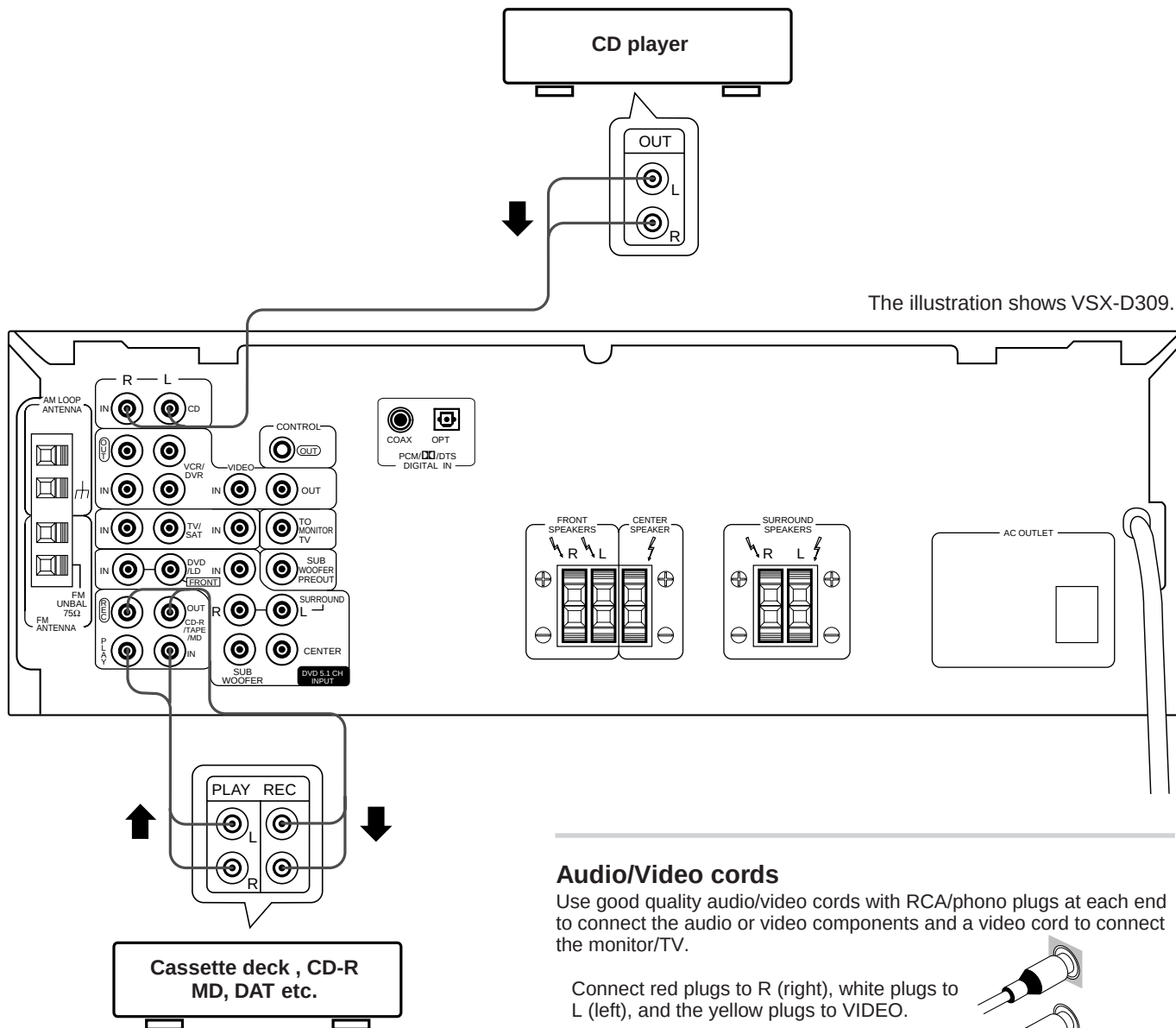
Use to set the overall listening volume.

- ⑲ **REMOTE SETUP button**

Use this button when setting up the remote control to control other components.

Connecting Audio Components

Connect your audio components as shown below. These are analog connections. When connecting equipment, always make sure the power switched off and the power cord is disconnected from the wall outlet.



Cassette deck placement

Depending on where the cassette deck is placed, noise caused by leakage flux from the transformer in the receiver may occur during playback. If you experience noise, move the cassette deck farther away from the receiver.

8.2 SPECIFICATIONS

Amplifier Section

Continuous average power output of 60 watts* per channel, min., at 8 ohms, from 40 Hz to 20,000 Hz with no more than 0.2 % total harmonic distortion (front). (VSX-D309)**

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.2 % total harmonic distortion (front). (VSX-D409)**

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

** Measured by Audio Spectrum Analyzer.

Continuous Power Output

Front 60 W per channel (1kHz, 0.8 %, 8 Ω) (VSX-D309)

Center 60 W (1kHz, 0.8 %, 8 Ω) (VSX-D309)

Surround 60 W per channel (1kHz, 0.8 %, 8 Ω) (VSX-D309)

Front 100 W per channel (1kHz, 0.8 %, 8 Ω) (VSX-D409)

Center 100 W (1kHz, 0.8 %, 8 Ω) (VSX-D409)

Surround 100 W per channel (1kHz, 0.8 %, 8 Ω) (VSX-D409)

Input (Sensitivity/Impedance)

CD, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT
..... 200 mV/47 k Ω

Frequency Response

CD, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT
..... 5 Hz to 100,000 Hz $_{-3}^{+0}$ dB

Output (Level/Impedance)

VCR/DVR REC, CD-R/TAPE/MD REC
..... 200 mV/2.2 k Ω

Tone Control

BASS ± 6 dB (100 Hz)

TREBLE ± 6 dB (10 kHz)

LOUDNESS +9 dB/+9 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)

CD, VCR/DV-R, CD-R/TAPE/MD, DVD/LD, TV/SAT
..... 96 dB

Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]

CD, VCR/DV-R, CD-R/TAPE/MD, DVD/LD, TV/SAT
..... 79 dB

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Video Section

Input (Sensitivity/Impedance)

VCR/DVR, DVD/LD, TV/SAT 1 Vp-p/75 Ω

Output (Level/Impedance)

VCR/DVR, MONITOR 1 Vp-p/75 Ω

Frequency Response

VCR/DVR, MONITOR 5 Hz to 7 MHz $_{-3}^{+0}$ dB

Signal-to-Noise Ratio 55 dB

Cross Talk 55 dB

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz

Usable Sensitivity Mono:13.2 dBf, IHF (1.3 μ V/ 75 Ω)

50 dB Quieting Sensitivity Mono: 20.2 dB

Stereo: 38.6 dBf

Signal-to-Noise Ratio Mono: 73 dB (at 85 dBf)

Stereo: 70 dB (at 85 dBf)

Distortion Stereo: 0.5 % (1 kHz)

Alternate Channel Selectivity 60 dB (400 kHz)

Stereo Separation 40 dB (1 kHz)

Frequency Response 30 Hz to 15 kHz (± 1) dB

Antenna Input (DIN) 75 Ω unbalanced

AM Tuner Section

Frequency Range 530 kHz to 1,700 kHz

Sensitivity (IHF, Loop antenna) 350 μ V/m

Selectivity 25 dB

Signal-to-Noise Ratio 50 dB

Antenna Loop antenna

Miscellaneous

Power Requirements AC 120 V, 60 Hz

Power Consumption 180 W (VSX-D309)

Power Consumption 250 W (VSX-D409)

In Standby 1 W

Dimensions 420 (W) x 158 (H) x 391 (D) mm

(16-9/16 (W) x 6-4/16 (H) x 15-6/16 (D) in.)

Weight (without package) 8.4 kg

(18 lb 8 oz.)

Furnished Parts

FM Antenna 1

AM Loop Antenna 1

Dry Cell Batteries

size AA (IEC R6P) 2

Remote Control Unit 1

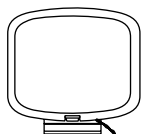
Operating Instructions 1

NOTE:

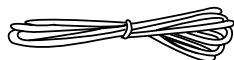
Specifications and the design are subject to possible modifications without notice, due to improvements.

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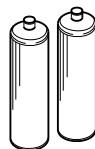
Accessories



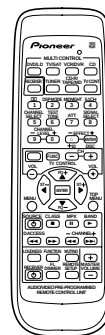
AM loop antenna
(ATB7009)



FM wire antenna
(ADH7004)



AA size IEC R6P
batteries (x2)



Remote control unit
(AXD7246)

Pioneer

Service Manual

ORDER NO.
RRV2318

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D409-G

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

Type	Model	Power Requirement	The voltage can be converted by the following method.
	VSX-D409-G		
SAMXQ	○	AC110V/120-127V/220V/240V	With the voltage selector

● This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
VSX-709RDS/MYXJIEW VSX-609RDS/MYXJIEW	RRV2274	

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS	2
2. SCHEMATIC DIAGRAM	5
3. PCB CONNECTION DIAGRAM	8

1. CONTRAST OF MISCELLANEOUS PARTS

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.

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

● Reference Nos. indicate the pages and Nos. in the service manual for the base model.

● 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 $\rightarrow$ $56 \times 10^1 \rightarrow$ 561 RD1/4PU561J

47k $\rightarrow$ $47 \times 10^3 \rightarrow$ 473 RD1/4PU473J

0.5 $\rightarrow$ R50 RN2H R50K

1 $\rightarrow$ 1R0 RS1P 1R0K

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

5.62k $\rightarrow$ $562 \times 10^1 \rightarrow$ 5621 RN1/4PC5621F

■ CONTRAST TABLE

VSX-D409-G/SAMXQ and VSX-609RDS/MYXJIEW are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-609RDS /MYXJIEW	VSX-D409-G /SAMXQ	
P5- 1		PCB ASSEMBLIES D.D & INPUT ASSY	AWX7497	AWX7650	No. 1
P5- 4	NSP	AMP&PS ASSY	AWK7568	AWK7572	
P5- 8	NSP	└ AMP&PRIMARY ASSY	AWX7478	AWX7482	
		└ TRANS 1 ASSY	AWX7390	Not used	
		└ VOLTAGE SELECT SW ASSY	Not used	AWX7442	
P7- 1	NSP	COMPLEX ASSY └ FRONT ASSY	AWK7567 AWX7477	AWK7571 AWX7481	
P3- 1		PACKING SECTION FM Wire Antenna	ADH7005	ADH7004	
P3- 3	NSP	Polyethylene Bag	Z21-038	Not used	
P3- 3		Polyethylene Bag	Not used	VHL1051	
P3- 4	NSP	Warranty Card	ARY7022	ARY7046	
P3- 5		Remote Control Unit	AXD7247	AXD7246	
P3- 6		Battery Cover	AZA7378	RZN1156	
P3- 7	NSP	Dry Cell Battery (R6P/AA)	VEM-013	VEM1010	
P3- 8		Left Pad	AHA7263	AHA7275	
P3- 9		Right Pad	AHA7264	AHA7276	
P3-10		Packing Sheet	AHG7069	AHG7010	
P3-11		Packing Case	AHD7831	AHD7878	
P3-12		Operating Instructions (English)	ARB7215	Not used	
P3-13		Operating Instructions (German)	ARC7273	Not used	
P3-14		Operating Instructions (Spanish/Portuguese)	ARC7274	Not used	
P3-15		Operating Instructions (Italian/French)	ARC7275	Not used	
P3-16		Operating Instructions (Dutch/Swedish)	ARC7276	Not used	
		Operating Instructions (English/Chinese)	Not used	ARE7258	
	NSP	Caution Card	Not used	XAX3130	
P5- 7		EXTERIOR SECTION FM/AM TUNER Unit	AXX7048	AXX7047	
P5-10	Δ	Power Transformer (AC220-230V)	ATS7259	Not used	
P5-10	Δ	Power Transformer (AC110V/120-127V/220V/240V)	Not used	ATS7261	
P5-11	Δ	Fuse (FU1 : T2.5A/250V)	REK1026	Not used	
P5-11	Δ	Fuse (FU1 : T5A/250V)	Not used	REK1029	
P5-19	Δ	AC Power Cord	VDG1061	VDG1084	
P5-22		Top Cover	AME7375	AME7376	
P5-24		R Panel	ANC7896	ANC7918	
P5-25		Bonnet Case	AZN7779	AZN7819	

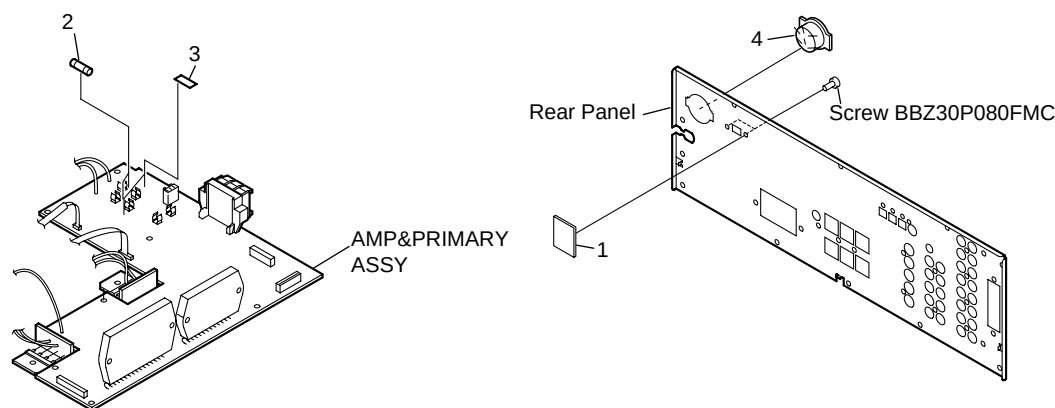
Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-609RDS /MYXJIEW	VSX-D409-G /SAMXQ	
P5-31	NSP	Insulator (Front side)	PNW2766	PNW2766	
P5-31		Insulator/Foot Assy (Rear side)	PNW2766	REC1263	
P5-33		Push Rivet	AEC7025	AEC7205	
P5-35		Fuse Card	AAX7277	AAX7098	
		Screw (Both sides of Bonnet Case)	FBT40P080FZK	FBT40P080FNI	
	⚠	Fuse (FU2, FU3 : T2.5A/250V)	Not used	REK1026	No. 2
	NSP	Fuse Card	Not used	AAX7277	No. 3
	⚠	Voltage Selector	Not used	AKX-507	No. 4
		Label (REAR)	Not used	VRW1739	
		FRONT PANEL SECTION			
P7- 6		Volume Knob	AAB7179	AAB7180	
P7- 7		Power Button	AAD7440	AAD7485	
P7- 8		Power Button M	AAD7442	AAD7491	
P7- 9		Window	AAK7721	AAK7720	
P7-10		F Button	AAD7562	AAD7563	
P7-12		F Panel	AMB7675	AMB7667	
P7-13		Name Plate	PAM1776	PAM1779	

Notes : ●The numbers in the remarks column correspond to the numbers on the “EXPLODED VIEWS”.

- For PCB ASSEMBLIES, Refer to “CONTRAST OF PCB ASSEMBLIES”, “PCB PARTS LIST”, “2. SCHEMATIC DIAGRAM” and “3. PCB CONNECTION DIAGRAM”.

■ EXPLODED VIEWS

● EXTERIOR SECTION



■ CONTRAST OF PCB ASSEMBLIES

CF AMP&PRIMARY ASSY

AWX7482 and AWX7478 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7478	AWX7482	
⚠	L51	Not used	ATF7018	
⚠	L52	ATF3001	Not used	
⚠	T51 STANDBY TRANSFORMER	ATT7037	ATT7038	
	C607-C610, C634, C635, C657-C660	CCCSL120J50	CCCSL6R0D50	
	C613, C614, C637, C663, C664	CCCSL221J50	Not used	
	C757-C759, C765-C768	CQMBA472J50	Not used	
	R758	RD1/4PU222J	RD1/4PU242J	
	H53-H56 FUSE CLIP	Not used	AKR7001	

B F D.D & INPUT ASSY

AWX7650 and AWX7497 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7497	AWX7650	
	Q102 Q103 Q104 F111, F112 C158 C211, C212 R119 R149 R150 R151 R215, R216	2SC2412K Not used Not used DTF1067 CKSRYB103K50 CCSQCH220J50 RS1/16S0R0J RS1/16S101J RS1/16S221J RS1/16S472J Not used	Not used DTA143EK DTC124EK Not used Not used Not used Not used Not used Not used Not used RS1/10S0R0J	

K F FRONT ASSY

AWX7481 and AWX7477 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7477	AWX7481	
	IC481 Q481 Q482 Q483 L481 S468, S477 C481, C482 C483, C487 C484 C485 C486 C488 C489, C490 R407 R409 R429 R468 R479 R481 R482 R483 R484 R485-R487 X481 CRYSTAL RESONATOR (4.332MHz)	BU1923F 2SA1515 KRC101M 2SC1740S LFEA2R2J XSG3001 CKSQYB102K50 CEAT101M10 CEAT2R2M50 CKSQYB472K50 CEAT1R0M50 CKSQYB561K50 CCSQCH270J50 RS1/10S472J Not used RS1/10S751J RS1/10S562J RS1/10S163J RS1/10S473J RS1/10S222J RS1/10S333J RS1/10S104J RS1/10S102J ASS7004	Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used RS1/10S622J Not used Not used Not used Not used Not used Not used Not used Not used	

PCB PARTS LIST

Mark No. Description Part No.

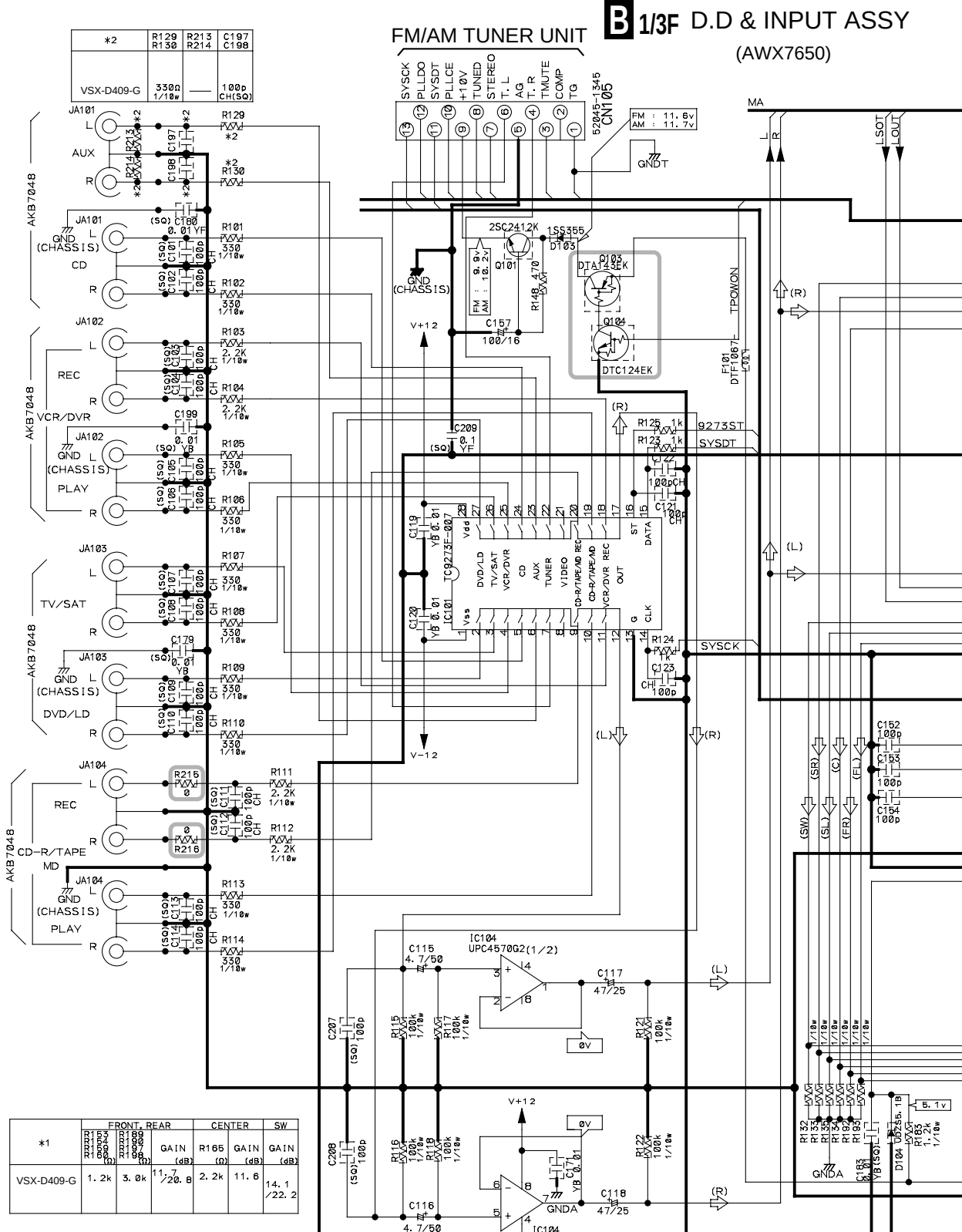
S F VOLTAGE SELECT SW ASSY**SWITCHES**

△ S51 VOLTAGE SELECTOR AKX1033

2. SCHEMATIC DIAGRAM

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

2.1 D.D & INPUT (1/3) ASSY



A

GB CN591

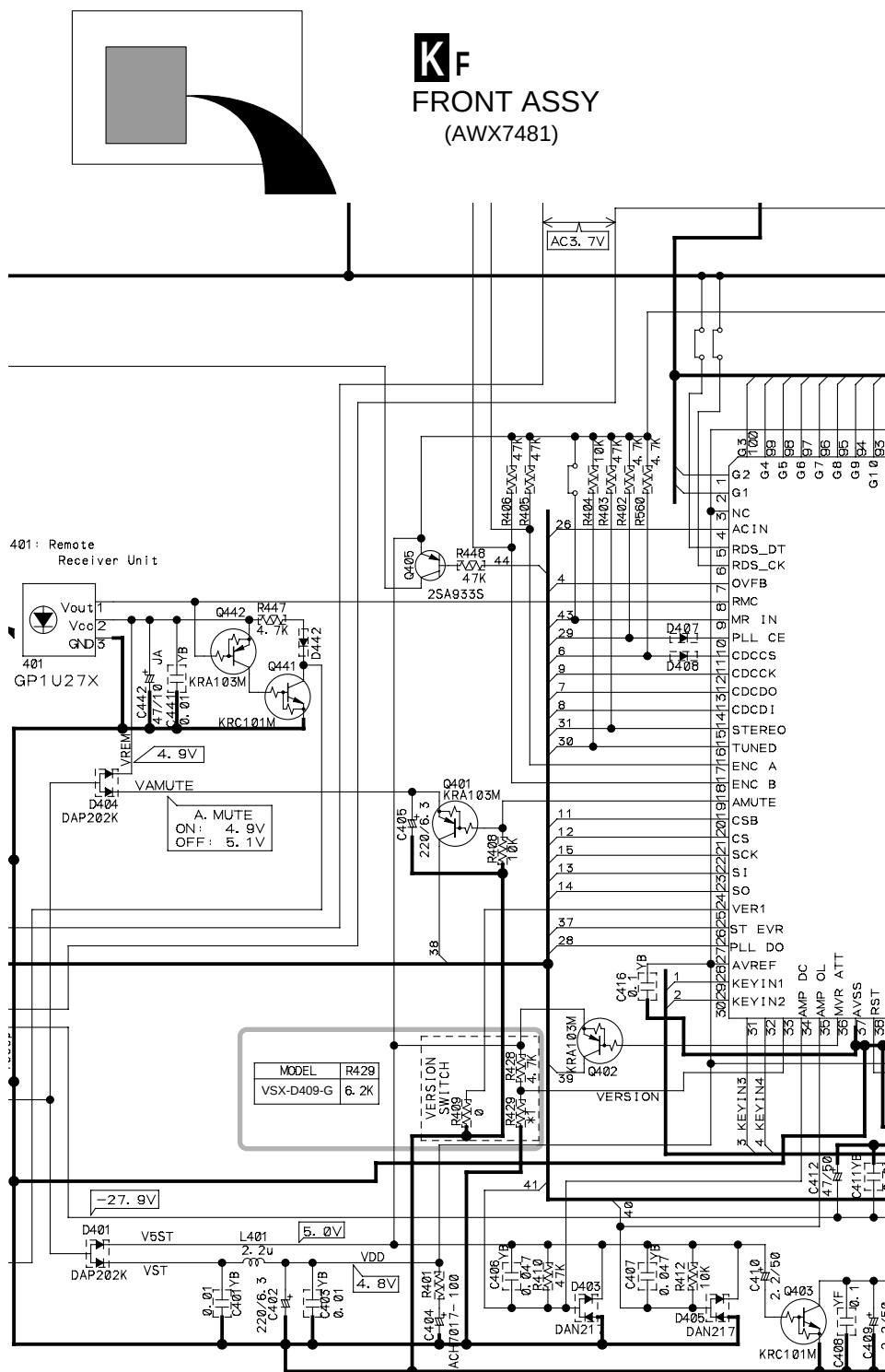


C

SF

D

6



3. PCB CONNECTION DIAGRAM

3.1 VOLTAGE SELECT SW ASSY

SF VOLTAGE
SELECT SW ASSY

