

Service Manual

Pioneer

ORDER NO.
RRV2365

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D709S

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

Type	Model	Power Requirement	Remarks
	VSX-D709S		
KUXJI/CA	○	AC120V	

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

Model No.	Order No.	Remarks
VSX-35TX/KUXJI/CA	RRV2351	

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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 RD1/4PU $\boxed{5}\boxed{6}\boxed{1}J$

47k $\rightarrow$ $47 \times 10^3 \rightarrow$ 473 RD1/4PU $\boxed{4}\boxed{7}\boxed{3}J$

0.5 $\rightarrow$ R50 RN2H $\boxed{R}\boxed{5}\boxed{0}K$

1 $\rightarrow$ 1R0 RS1P $\boxed{1}\boxed{R}\boxed{0}K$

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 RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}F$

■ CONTRAST TABLE

VSX-35TX/KUXJI/CA and VSX-D709S/KUXJI/CA are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-35TX /KUXJI/CA	VSX-D709S /KUXJI/CA	
		PCB ASSEMBLIES			
P5- 5 P5-17	NSP	MAIN ASSY	AWK7591	AWK7615	
		└MAIN CONTROL ASSY	AWX7560	AWX7618	
		└DSP ASSY	AWX7561	AWX7611	
P5- 2 P5- 6 P5- 9 P5-13	NSP	COMPLEX ASSY	AWK7592	AWK7613	
		└EX I/O(5.1CH I/O) ASSY	AWX7568	AWX7613	
		└A-CONNECTION ASSY	AWX7566	AWX7619	
		└V-CONNECTION ASSY	AWX7567	AWX7717	
		└TRANS2- 2 ASSY	AWX7565	AWX7720	
P5- 4 P5-10	NSP	POWER ASSY	AWK7593	AWK7598	
		└INPUT ASSY	AWX7573	AWX7585	
		└SP/PS ASSY	AWX7571	AWX7721	
P5- 7 P5- 8 P7- 1 P7- 6	NSP	FRONT ASSY	AWK7594	AWK7617	
		└COMPOSITE ASSY	AWX7581	AWX7617	
		└S VIDEO ASSY	AWX7580	AWX7616	
		└DISPLAY ASSY	AWX7574	AWX7620	
		└FRONT DIGIN ASSY	AWX7648	Not used	
		PACKING SECTION			
P3- 3	NSP	Operating Instructions(English)	ARB7222	ARB7224	
P3- 4		Remote Control Unit	AXD7266	AXD7268	
P3- 8		Packing Case	AHD7860	AHD7867	
P3-11		Warranty Card	ARY7007	ARY7045	
		EXTERIOR SECTION			
P5-31		Rear Panel	ANC7910	ANC7941	
P5-41		Teminal Screw	AKE-031	Not used	
		FRONT PANEL SECTION			
P7- 9		4P Flexible Cable/60V	ADD7238	Not used	
P7-12		5P Shield with Housing	ADX7344	Not used	
P7-14		Door	AMB7692	AMB7697	
P7-19		Digital Cap 35	AAD7576	Not used	
P7-21		Window	AAK7769	AAK7733	
P7-22		Door Sheet	AAK7783	AAK7780	
P7-25		Front Panel	AMB7691	AMB7715	

Notes : ● For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES"and "2. SCHEMATIC DIAGRAM".

■ CONTRAST OF PCB ASSEMBLIES

BF EXI I/O (5.1CH I/O) ASSY

AWX7613 and AWX7568 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7568	AWX7613	
	IC1101- IC1103 IC1104 Q1157, Q1158 C1115, C1116 C1131, C1132	UPC4570G2 UPC4570G2 HN1C03F CEAT4R7M50 CEAT100M50	NJM4558MD Not used Not used Not used Not used	
	C1139, C1140 R1107, R1108 R1115, R1116 R1125, R1126 R1157, R1158	CKSQYB103K50 RS1/10S331J RS1/10S104J RS1/10S474J RS1/10S271J	Not used Not used Not used Not used Not used	
	R1165, R1166 R1173, R1174 R1181, R1182, R1189, R1190 JA1113, JA1163	RS1/10S121J RS1/10S101J RS1/10S103J AKB7046	Not used Not used Not used Not used	

CF INPUT ASSY

AWX7585 and AWX7573 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7573	AWX7585	
	Q1001, Q1002 D1051 C1051 R1013- R1016, R1051 R1017, R1018	2SC7878 1SS133 CGCYX103M16 RD1/4PU102J RD1/4PU473J	Not used Not used Not used Not used Not used	
	CN1002 JA1004 JA1051	KP200TA6L AKB7046 AKN7014	Not used Not used Not used	

HF V-CONNECTION ASSY

AWX7717 and AWX7567 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7567	AWX7717	
	Q601 C601 CN604 R601	KRC103M CKSQYB103K50 KM200TA10 RS1/10S103J	Not used Not used Not used Not used	

E F A-CONNECTION ASSY

AWX7619 and AWX7566 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7566	AWX7619	
	IC1501 IC1502 IC1503 IC1551 D1551 C1501– C1504, C1517, C1518 C1507, C1508, C1515, C1516, C1551 C1552, C1553 C1511, C1512 C1541– C1543, C1554, C1555 C1556, C1557 R1503, R1504, R1511, R1512 R1505, R1506, R1554, R1555 R1507, R1508 R1509, R1510 R1541– R1545, R1552, R1553 R1551 R1569– R1574 CN1552 CN1554	TC9215AF TC9459F NJM4558MD M62429FP UDZS5.1B CKSQYB103K50 CEAT100M50 CEAT100M50 CCSQCH560J50 CCSQCH101J50 CEAT1R0M50 RS1/10S104J RS1/10S103J RS1/10S472J RS1/10S152J RS1/10S102J RS3LMF391J RS1/10S0R0J AKP7068 KM200TA6	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 Not used Not used Not used Not used	

L F SP/PS ASSY

AWX7721 and AWX7571 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7571	AWX7721	
	C3001, C3002 (22000 μ F/56V) L3111, L3112	ACH7147 ATX1012	ACH7145 Not used	

O F TRANS 2-2 ASSY

AWX7720 and AWX7565 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7565	AWX7720	
	C5501, C5502 R5501	CQMA224J50 RD1/4MUF100J	Not used Not used	

DF MAIN CONTROL ASSY

AWX7618 and AWX7560 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7560	AWX7618	
	IC101 IC103 IC104 Q905 C113, C114	M5220FP TC9164AF NJM4558MD DTA124EK CEAT100M50	Not used Not used Not used Not used Not used	
	C115, C116 C117, C118 C121, C122 C123, C124 C125, C126	CCSQCH181J50 CEAT470M25 CQMA822J50 CQMA242J50 CEAT2R2M50	Not used Not used Not used Not used Not used	
	C127, C128 C133, C134, C911 C135, C136 C191, C192, C153 R111, R112	CEJQ101M25 CKSRYB103K50 CEAT1R0M50 CCSRCH101J50 RD1/10S0R0J	Not used Not used Not used Not used Not used	
	R113, R114, R117, R118, R129, R130 R139, R140, R203, R204 R115, R116 R119, R120 R121, R122	RS1/10S104J RS1/10S104J RS1/10S331J RS1/10S511J RS1/10S394J	Not used Not used Not used Not used Not used	
	R123, R124 R125, R126 R131, R132 R133, R134 R135, R136	RS1/10S303J RS1/10S471 RS1/16S474J RS1/16S471J RS1/10S102J	Not used Not used Not used Not used Not used	
	R921, R923 R924 R933 R934— R946, R990, R991 CN103	Not used RS1/16S103J RS1/16S473J RS1/16S102J AKP7057	RS1/16S103J Not used Not used Not used Not used	
	CN906 JA151	52045-0445 VKB1060	Not used Not used	

GF S VIDEO ASSY

AWX7616 and AWX7580 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7580	AWX7616	
	IC852 C854 C855, C856 R855 R868— R869	BU4053BCF CCSQCH151J50 CKSQYB103K50 RS1/10S103J RS1/10S102J	Not used Not used Not used Not used Not used	
	R883 R884 R885	Not used RS1/10S0R0J Not used	RS1/10S0R0J Not used RS1/10S0R0J	

FF COMPOSITE ASSY

AWX7617 and AWX7581 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7581	AWX7617	
	IC731	NJM2279M	Not used	
	IC751	TC4W53FU	Not used	
	Q701	2SA933S	Not used	
	D731	DAN202K	Not used	
	C707	CCSQCH181J50	Not used	
	C712	CEAT101M10	Not used	
	C713	CEAT101M16	Not used	
	C714, C732, C733, C736, C785, C786	CKSQYB473K50	Not used	
	C715	CCSQCH150J50	Not used	
	C734, C735	CEAT101M10	Not used	
	C737	CCSQCH470J50	Not used	
	R707	RS1/10S750J	Not used	
	R712	RS1/10S183J	Not used	
	R713	RS1/10S103J	Not used	
	R714	RS1/10S101J	Not used	
	R715	RD1/2VM201J	Not used	
	R733– R735, R766	RS1/10S102J	Not used	
	R767	RS1/10S104J	Not used	
	703	AKB7017	Not used	
	JA703	Not used	VKB1048	

SF DISPLAY ASSY

AWX7620 and AWX7574 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7574	AWX7620	
	IC7051	TC7W53FU	Not used	
	Q7053	FMA1A	Not used	
	Q7054	DTC124EK	Not used	
	D7054– D7057	1SS355	Not used	
	C7053	CKSQYB153K50	Not used	
	R7056	RS1/10S223J	Not used	
	R7057	RS1/10S392J	Not used	
	R7058, R7061	RS1/10S103J	Not used	
	CN7007	52045-0445	Not used	
	S7003	ASG7013	Not used	

YF DSP ASSY

AWX7611 and AWX7561 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7561	AWX7611	
	IC9103	CS4391	Not used	
	IC9602– IC9604	UPC4570G2	NJM4558MD	
	IC9701– IC9705	UPC4570G2	NJM4558MD	
	IC9706, IC9707	UPC4570G2	Not used	
	Q9611, Q9612	2SC3326	Not used	
	L9105, L9106	QTL1013	Not used	
	C9120	CEJA470M16	Not used	
	C9121, C9124,	CKSRYB103K50	Not used	
	C9122	CCSRCH471J50	Not used	
	C9123, C9125	CEJA1R0M50	Not used	
	C9126	CKSRYB104K16	Not used	
	C9167	CKSQYF104Z50	Not used	
	C9705, C9706, C9759, C9760	CKSQYF104Z25	Not used	
	C9745, C9746, C9781, C9782	CKSRYB102K50	Not used	
	C9749– C9752	CCSRCH221J50	Not used	
	C9753, C9754	CEJA330M10	Not used	
	C9755, C9756	CKSRYB122K50	Not used	
	C9757, C9758	CCSRCH271J50	Not used	
	C9761, C9762	CEJA4R7M50	Not used	
	C9763, C9764	CKSRYB222K50	Not used	
	R9104	RS1/16S101J	RS1/16S331J	
	R9120	RS1/10S681J	Not used	
	R9121	RS1/10S562J	Not used	
	R9122	RS1/10S681J	Not used	
	R9123	RS1/10S182J	Not used	
	R9154	RS1/10S104J	RS1/10S0R0J	
	R9173	RS1/10S0R0J	Not used	
	R9577	RS1/16S331J	Not used	
	R9737– R9742, R9753, R9754, R9763, R9764	RS1/16S153J	Not used	
	R9743– R9746, R9755, R9756	RS1/16S332J	Not used	
	R9747, R9748	RS1/16S122J	Not used	
	R9749, R9750	RS1/16S562J	Not used	
	R9751, R9752	RS1/16S822J	Not used	
	R9757, R9758	RS1/16S474J	Not used	
	R9759, R9760	RS1/16S101J	Not used	
	CN9804	S5B-PH-K-S	Not used	
	JA9156	GP1FA551TZ	Not used	

2. SCHEMATIC DIAGRAM

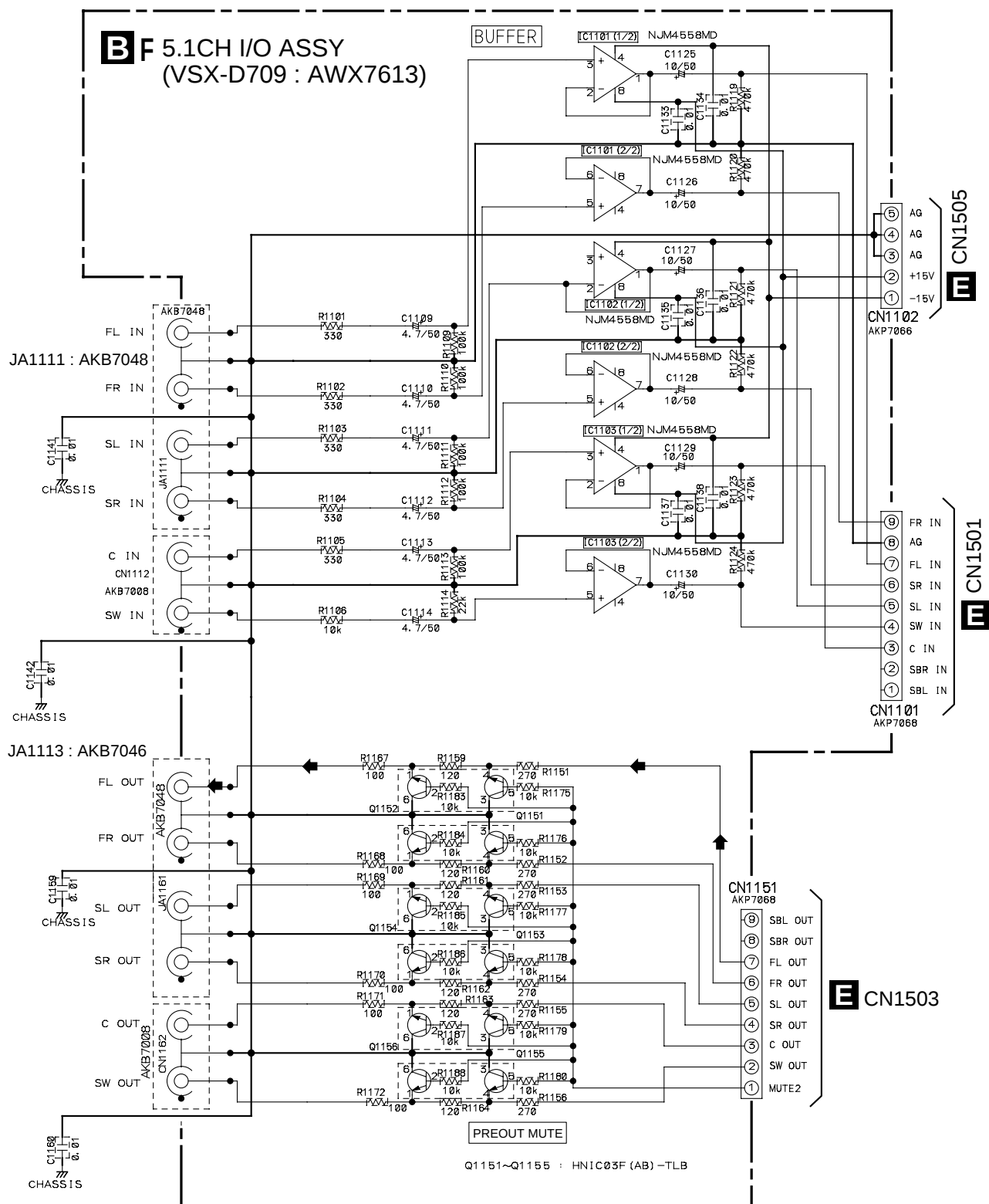
2.1 EXTRA I/O(5.1 CH I/O) and MAIN CONTROL ASSYS

A

B

C

D



MAIN U-COM

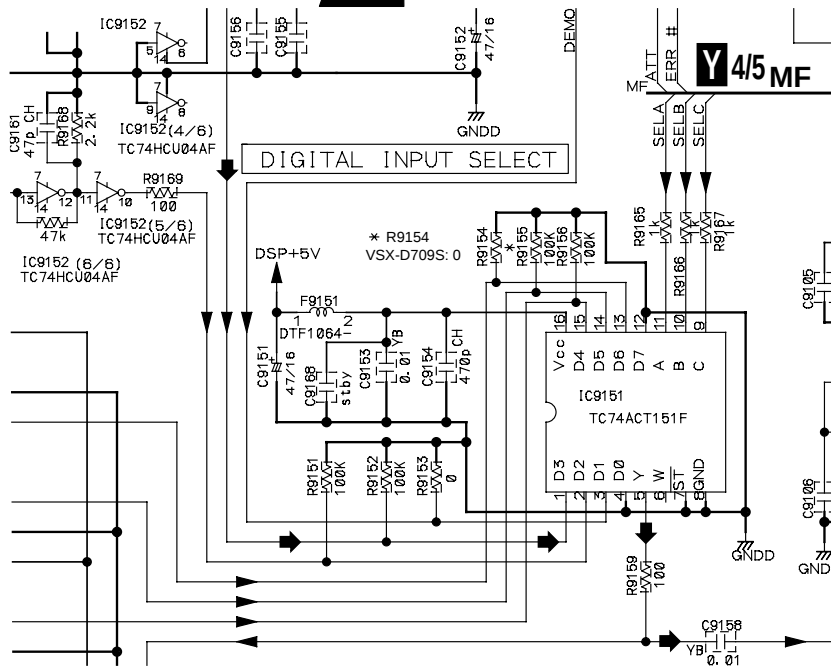
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F

2.4 DSP ASSY (2/5)

Y 2/5F DSP ASSY
(VSX-D709S : AWX7611)



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