

Service Manual

ORDER NO.
RRV3938

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-519V-K

VSX-519V-S

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

Model	Type	Power Requirement	The voltage can be converted by the following method.
VSX-519V-K	RFLXCN	AC 110 V to 127 V/220 V to 240 V	With the voltage selector
VSX-519V-K	WDWXCN	AC 220 V to 240 V	-----
VSX-519V-K	WPWXCN	AC 220 V to 240 V	-----
VSX-519V-K	NAXCN5	AC 220 V	-----
VSX-519V-S	RFLXCN	AC 110 V to 127 V/220 V to 240 V	With the voltage selector

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

Model No.	Order No.	Remarks
VSX-519V-K/MYSXCN5	RRV3897	

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

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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  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

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

● For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

● 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%).

560Ω → 56 x 10¹ → 561 RD1/4PU    J

47kΩ → 47 x 10³ → 473 RD1/4PU    J

0.5Ω → R50 RN2H    K

1Ω → 1R0 RS1P    K

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

5.62kΩ → 562 x 10¹ → 5621 RN1/4PC     F

CONTRAST TABLE

VSX-519V-K/MYSXCN5, VSX-519V-K/RFLXCN, VSX-519V-K/WDWXCXN, VSX-519V-K/WPWXCXN, VSX-519V-K/NAXCN5 and VSX-519V-S/RFLXCN are constructed the same except for the following:

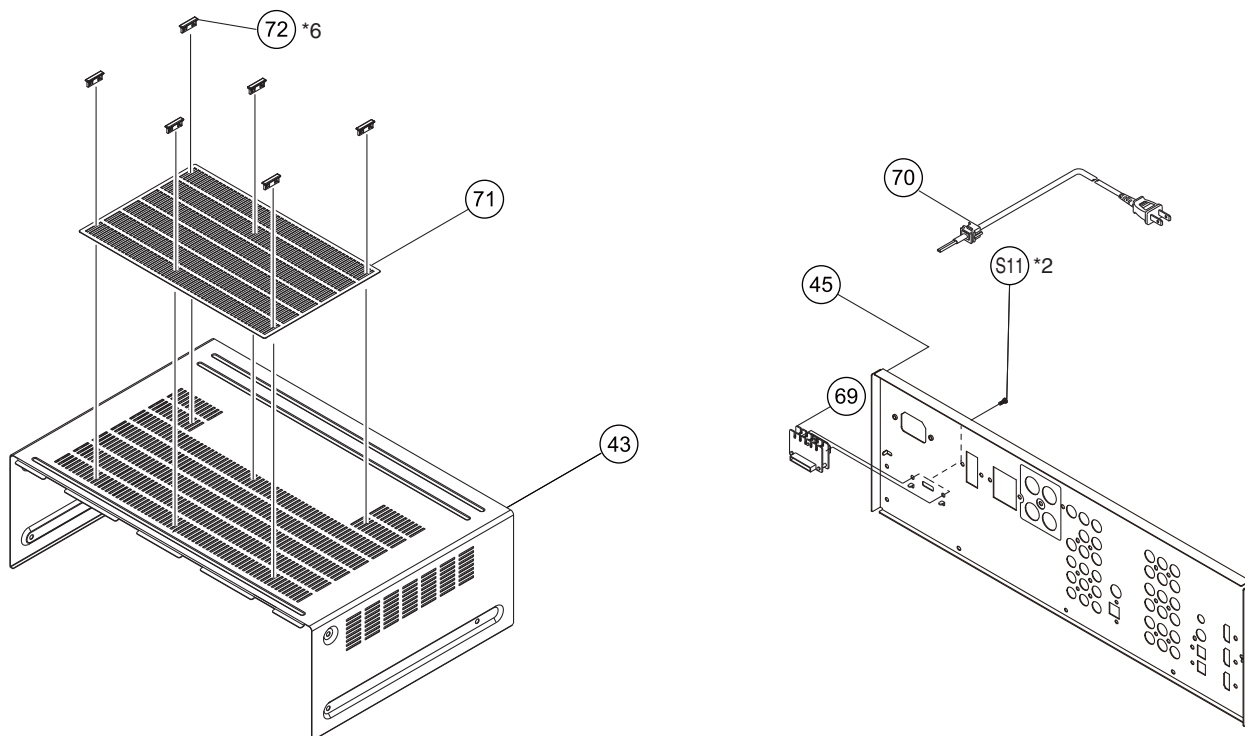
Mark	No.	Symbol and Description	VSX-519V-K/ MYSXCN5	VSX-519V-K/ RFLXCN	VSX-519V-K/ WDWXCXN	VSX-519V-K/ WPWXCXN	VSX-519V-K/ NAXCN5	VSX-519V-S/ RFLXCN	Remarks
C	NSP	PCB ASSEMBLIES							No. 69
	P50-27	1..P.C.B TOTAL ASSY (MAIN)	7025HK0812010-IL	7025HK0812040-IL	7025HK0812070-IL	7025HK0812080-IL	7025HK0812060-IL	7025HK0812040-IL	
		2..P.C.B SUB ASSY (MAIN)	7028067501020-IL	7028067501090-IL	70280675010B0-IL	70280675010A0-IL	70280675010A0-IL	7028067501090-IL	
	P50-47	2..P.C.B SUB ASSY (H/P GUIDE)	7028067506010-IL	7028067506010-IL	7028067506010-IL	7028067506010-IL	Not used	7028067506010-IL	
D	NSP	1..P.C.B TOTAL ASSY (VOL_SEL)	Not used	7025HK0811019-IL	Not used	Not used	Not used	7025HK0811019-IL	
		2..P.C.B SUB ASSY (VOL_SEL)	Not used	7028067621010-IL	Not used	Not used	Not used	7028067621010-IL	
		PACKING SECTION							
	P47- 4	Remote Control	8300753600010-IL	8300756500010-IL	8300756500010-IL	8300756500010-IL	8300756500010-IL	8300756500010-IL	
E	P47- 6	Box, Gift 519	6007211340020-IL	6007211340030-IL	6007211340060-IL	6007211340070-IL	6007211340050-IL	6007211340040-IL	
	P47-10	Operating Instructions (En/Fr/Ru)	5707000001920-IL	Not used	Not used	Not used	Not used	Not used	
	NSP	P47-11	Warranty Card	ARY7127	Not used	Not used	ARY7118	Not used	
	NSP	P47-14	Label Getter 519	5507000003610-IL	5507000003480-IL	5507000003480-IL	5507000003620-IL	5507000003480-IL	
F		P47-16	Power Cord	L068250160020-IL	L068250160020-IL	L068250161710-IL	L0682501710-IL	L068250160020-IL	
			Power Cord	Not used	L068125070060-IL	Not used	Not used	L068125070060-IL	
			Power Cord	Not used	L068250100040-IL	Not used	Not used	L068250100040-IL	
		P47-20	Operating Instructions (It/De/Nl/Es)	5707000002100-IL	Not used	Not used	Not used	Not used	
F			Operating Instructions (En/Zhtw/Es)	Not used	5707000001930-IL	Not used	Not used	5707000001930-IL	
			Operating Instructions (En)	Not used	Not used	5707000001940-IL	5707000001940-IL	Not used	
			Operating Instructions (Zhcn)	Not used	Not used	Not used	5707000001950-IL	Not used	
			Sheet (AC cord caution)	Not used	5227000000430-IL	Not used	Not used	5227000000430-IL	
F			Sheet (AC cord caution)	Not used	5227000000440-IL	Not used	Not used	5227000000440-IL	
			Sheet (Caution)	Not used	5227000000850-IL	Not used	Not used	5227000000850-IL	
			Label	Not used	5507000000130-IL	Not used	Not used	5507000000130-IL	
			Label	Not used	5507000000140-IL	Not used	Not used	5507000000140-IL	
F			Label	Not used	5507000000150-IL	Not used	Not used	5507000000150-IL	
	NSP		Label (SISIR)	Not used	5507000003450-IL	Not used	Not used	5507000003450-IL	

Mark	No.	Symbol and Description	VSX-519V-K/ MYSXCN5	VSX-519V-K/ RFLXCN	VSX-519V-K/ WDWXCN	VSX-519V-K/ WPWXCN	VSX-519V-K/ NAXCN5	VSX-519V-S/ RFLXCN	Remarks
		EXTERIOR SECTION							
	P50- 2	Pioneer Badge	XAM3006	XAM3006	XAM3006	XAM3006	XAM3006	Not used	A
	P50- 2	Pioneer Name Plate	Not used	Not used	Not used	Not used	Not used	VAM1129	
	P50- 3	Knob	5080211931100-IL	5080211931100-IL	5080211931100-IL	5080211931100-IL	5080211931100-IL	5087211931000-IL	
	P50- 6	Panel	3067214161100-IL	3067214161110-IL	3067214161110-IL	3067214161120-IL	3067214161110-IL	3067214161210-IL	
	P50- 7	Button	5090213751100-IL	5090213751100-IL	5090213751100-IL	5090213751100-IL	5090213751100-IL	5097213751000-IL	
	P50- 8	Button	5090213761100-IL	5090213761100-IL	5090213761100-IL	5090213761100-IL	5090213761100-IL	5097213761000-IL	
	P50- 9	Button	5097213771100-IL	5097213771100-IL	5097213771100-IL	5097213771100-IL	5097213771100-IL	5097213771000-IL	
	P50-12	Button	5090213741100-IL	5090213741100-IL	5090213741100-IL	5090213741100-IL	5090213741100-IL	5097213741000-IL	
	P50-30	Tuner (JA101)	E903104100030-IL	E903004100020-IL	E903004100020-IL	E903004100020-IL	E903004100020-IL	E903004100020-IL	
	P50-42	Power Trans	8200960610520-IL	8200960610480-IL	8200960610490-IL	8200960610490-IL	8200960610500-IL	8200960610480-IL	
	P50-43	Chassis	3207212686110-IL	3207212686200-IL	3207212686020-IL	3207212686030-IL	3207212686010-IL	3207212686210-IL	B
	P50-44	Socket,Power AC	G430000180010-IL	G430000180010-IL	Not used	Not used	Not used	G430000180010-IL	
	P50-45	Cabinet	3007211276010-IL	3007211276100-IL	3007211276010-IL	3007211276010-IL	3007211276010-IL	3007211276110-IL	
	P50-69	Bushing	2410040353010-IL	2410040353010-IL	2410040353010-IL	Not used	Not used	2410040353010-IL	
	P50-70	CN,Wire	L000211020040-IL	L000211020040-IL	Not used	Not used	Not used	L000211020040-IL	
	P50-S1	Screw	BBT40P080FTB	BBT40P080FTB	BBT40P080FTB	BBT40P080FTB	BBT40P080FTB	BBT40P080FNI	
	P50-S10	Screw,Tap Tite	B020030083F10-IL	B020030083F10-IL	Not used	Not used	Not used	B020030083F10-IL	
⚠	P50-A1	Power Cord	L068250160020-IL	L068250160020-IL	L068250161710-IL	L068250751710-IL	L068250101710-IL	L068250160020-IL	
⚠		Power Cord	Not used	L068125070060-IL	Not used	Not used	Not used	L068125070060-IL	
⚠		Power Cord	Not used	L068250100040-IL	Not used	Not used	Not used	L068250100040-IL	
		Stopper	Not used	Not used	4380040162010-IL	4380040162010-IL	4380040162010-IL	Not used	No. 70
		Screw	Not used	BMZ30P100FTB	Not used	Not used	Not used	BMZ30P100FTB	C
		Cover	Not used	4310212122020-IL	Not used	Not used	Not used	4310212122020-IL	
		Cover	Not used	4310213701000-IL	Not used	Not used	Not used	4310213701100-IL	

Notes : The numbers in the remarks column correspond to the numbers on the “EXPLODED VIEWS”.
For PCB ASSEMBLIES, Refer to “2. SCHEMATIC DIAGRAM”, “3. PCB CONNECTION DIAGRAM” and “4. PCB PARTS LIST”.

EXPLODED VIEWS

EXTERIOR SECTION



2. SCHEMATIC DIAGRAM

2.1 P.C.B SUB ASSY (MAIN)

A

- NOTES
1. Resistor values are indicated in ohms unless otherwise specified
[k = 1,000 m = 1,000,000]
 2. Capacitor values are indicated in microfarads unless otherwise specified.
 3. $\square$ [p = micro-microfarads]

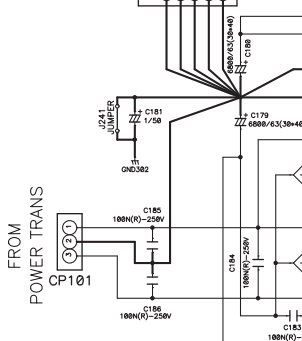
These resistor are to be segregated from printed wiring board or other accessible parts.

CAUTION
Safety precaution to be followed during servicing

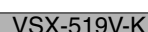
- 1] Since those parts marked with * are critical parts for safety, use only the one described in the parts list
- 2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

B

CP402
TO SPEAKER B'D



F



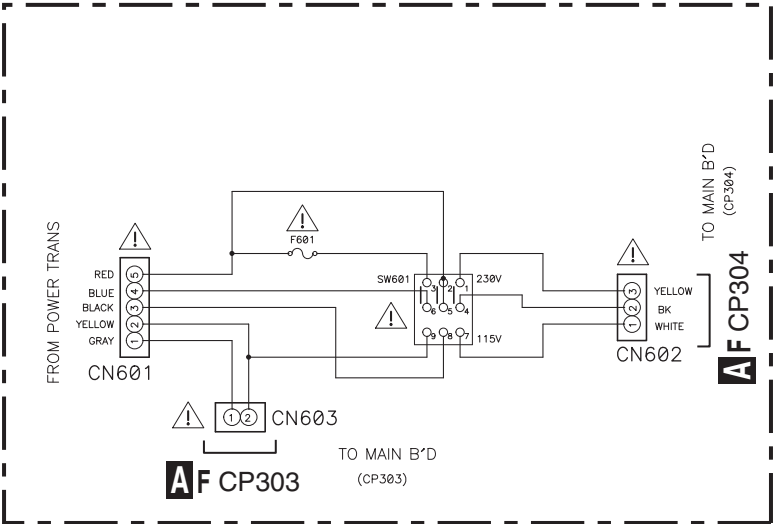
A

B

C

OF

P.C.B SUB ASSY (VOL_SEL)
(RFLXCN : 7028067621010-IL)



OF

3. PCB CONNECTION DIAGRAM

3.1 P.C.B SUB ASSY (VOL_SEL)

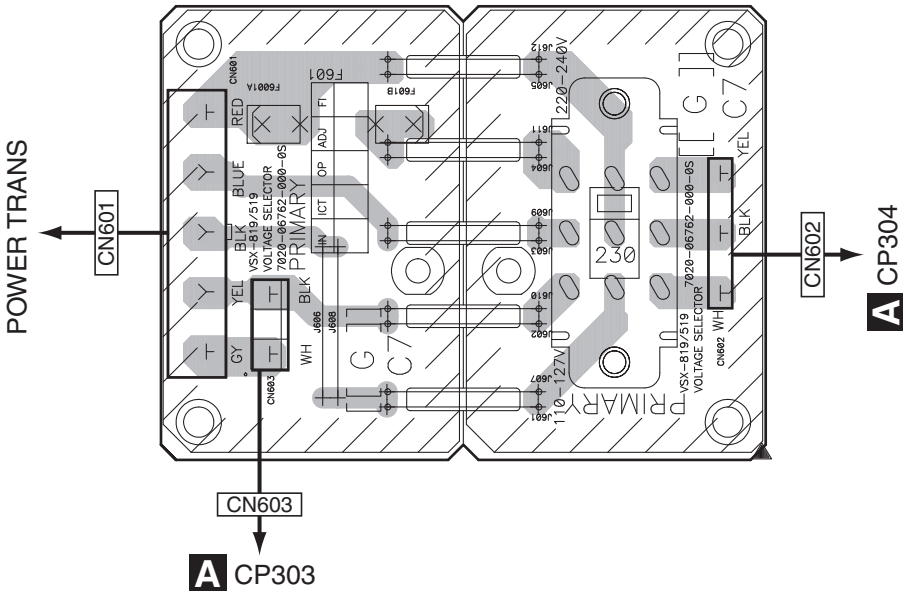
D

SIDE A

SIDE A

OF

P.C.B SUB ASSY (VOL_SEL)



OF

4. PCB PARTS LIST

Mark	No.	Description	Part No.
A F P.C.B SUB ASSY (MAIN-519)			
SEMICONDUCTORS			
	IC	101	8952519000011-IL
⚠	IC	103	J126781200040-IL
⚠	IC	104	J126791200060-IL
	IC	106	J000241600020-IL
	IC	109	J040740800230-IL
	IC	110	J040740800240-IL
⚠	IC	111,112	J126111733050-IL
⚠	IC	113-115	J126780500110-IL
⚠	IC	301	J126111700041-IL
⚠	IC	302	J126111750010-IL
	Q	101,102,138,300	J522038750210-IL
	Q	103,111	J522010500210-IL
⚠	Q	106,107	J501778000010-IL
⚠	Q	108	J5011049Y0010-IL
	Q	121,123,124	J5001268B0050-IL
	Q	122	J5023198Y0000-IL
⚠	Q	125	J5000916Y0050-IL
	Q	301	J522038750210-IL
	Q	302	J522107S00210-IL
	D	101-105,125,127	K005041480030-IL
	D	128,135,136	K005041480030-IL
⚠	D	301-304	K005041480030-IL
	D	1101-1103 (BD101-103)	K047604000020-IL
MISCELLANEOUS			
	L	101,102 BEAD,COIL	7610010030000-IL
	JA	101 TUNER	E903004100020-IL
	JA	102 TER,BOARD PUSH 2P	G592212A0300Y-IL
	RY	101 RELAY	G680120502050-IL
	RY	302 RELAY	G680060502010-IL
⚠	T	301 POWER TRANS (/RFLXCN)	8200280150610-IL
⚠	T	301 POWER TRANS (/WDWXCXN, /WPWXCXN, /NAXCN5)	8200280150420-IL
	X	101 RESONATOR,CERAMIC	E830160000060-IL
		101 HEAT SINK	2120210958010-IL
		104,114 HEAT SINK	2120000818020-IL
⚠	FU	301 FUSE GLASS TUBE 20MM	N751226301110-IL
RESISTORS			
	R	101-104,201,202	C060R22065050-IL
	R	105,106,203	C060033065050-IL
	R	159	C060015165050-IL
	R	174-176	C060022265050-IL
	R	178,179	C141R10069010-IL
	R	184	C0604R7065050-IL
⚠	R	186	C060022063050-IL
	R	304	C060010063050-IL
CAPACITORS			
	C	179,180	D040682088010-IL
	C	182-186	D02010407H080-IL
	C	189	D040331088230-IL
	C	200	D040682083000-IL
	C	201-203,208-210	D02047306C060-IL
	C	206	D040472084020-IL
	C	207	D040102084060-IL
	C	222,224	D040471081070-IL
	C	236	D040103083000-IL

Mark	No.	Description	Part No.
	C	237-239,1026,1027	D02047306C060-IL
	C	301	D040102083030-IL
	C	304	D00847208H010-IL
	C	1016,1017	D02010306C060-IL
Q F P.C.B SUB ASSY (VOL_SEL)			
MISCELLANEOUS			
⚠	S	601 (SW601) SW,SLIDE	G060329140000-IL
⚠	CN	601 CN.WAFER 7.92MM	L108353280560-IL
		0 SUPPORTER	4070210192000-IL
		0 SPACER(PLS)	4300210062000-IL
⚠	FU	601 (F601) FUSE GLASS TUBE 20MM	N751223151110-IL
	FU	6011,6012 (F601A, F601B) HOLDER,FUSE CLIP	G645000050010-IL