

Service Manual

ORDER NO.
RRV3952

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-RS319V-K

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

Model	Type	Porew Requirement	The voltage can be converted by the following method.
VSX-RS319V-K	FLXCN	AC 110 V to 127 V/220 V to 240 V	With the voltage selector
VSX-RS319V-K	DWXCN	AC 220 V to 240 V	-----

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.

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS.....	2
2. SCHEMATIC DIAGRAM	4
2.1 P.C.B SUB ASSY (MAIN)	4
2.2 P.C.B SUB ASSY (VOLTSEL) and P.C.B SUB ASSY (REG).....	6
3. PCB CONNECTION DIAGRAM	7
3.1 P.C.B SUB ASSY (VOLTSEL) and P.C.B SUB ASSY (REG).....	7
3.2 P.C.B SUB ASSY (HDMI)	8
4. PCB PARTS LIST	9

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.

● 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%).

560 Ω $\rightarrow$ 56 x 10¹ $\rightarrow$ 561 RD1/4PU $\overline{5}$ $\overline{6}$ $\overline{1}$ J

47k Ω $\rightarrow$ 47 x 10³ $\rightarrow$ 473 RD1/4PU $\overline{4}$ $\overline{7}$ $\overline{3}$ J

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

1 Ω $\rightarrow$ 1R0 RS1P $\overline{1}$ $\overline{R}$ $\overline{0}$ K

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

5.62k Ω $\rightarrow$ 562 x 10¹ $\rightarrow$ 5621 RN1/4PC $\overline{5}$ $\overline{6}$ $\overline{2}$ $\overline{1}$ F

CONTRAST TABLE

VSX-519V-K/MYSXCN5, VSX-RS319V-K/FLXCN and VSX-RS319V-K/DWXCN are constructed the same except for the following:

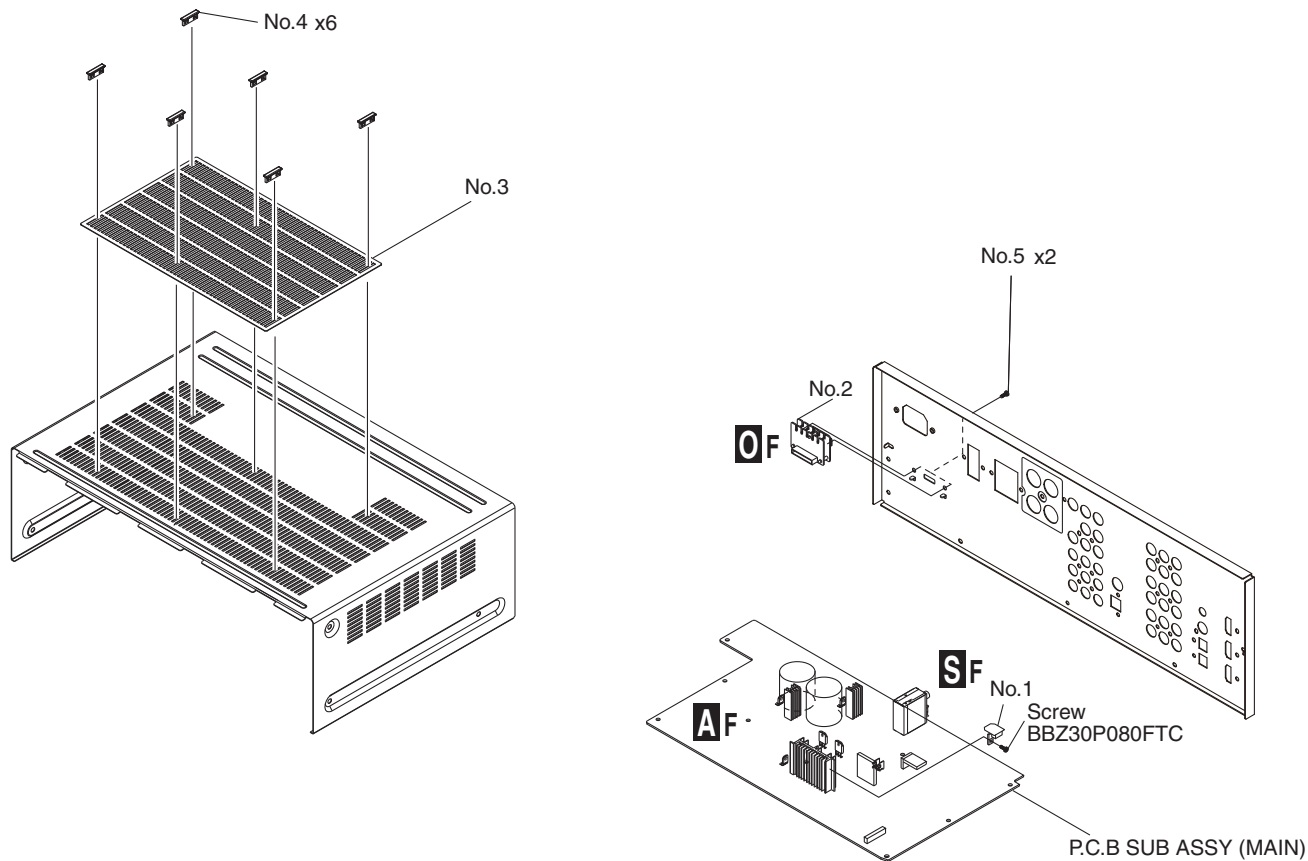
Mark	No.	Symbol and Description	VSX-519V-K /MYSXCN5	VSX-RS319V-K /FLXCN	VSX-RS319V-K /DWXCN	Remarks
NSP	P50-11 P50-57 P50-58 P50-59 P50-60	PCB ASSEMBLIES				No. 1
		1..P.C.B TOTAL ASSY (FRONT)	7025HK0812011-IL	7025HK0904011-IL	7025HK0904011-IL	
		2..P.C.B SUB ASSY (FRONT)	7028067511020-IL	7028067511040-IL	7028067511040-IL	
		2..P.C.B SUB ASSY (HEADPHONE)	7028067512010-IL	7028067512040-IL	7028067512040-IL	
		2..P.C.B SUB ASSY (VOLUME)	7028067513010-IL	7028067513040-IL	7028067513040-IL	
		2..P.C.B SUB ASSY (FUNCTION)	7028067514010-IL	7028067514040-IL	7028067514040-IL	
2..P.C.B SUB ASSY (PORTABLE)	7028067518010-IL	7028067518040-IL	7028067518040-IL			
NSP	P50-22	1..P.C.B TOTAL ASSY (AMP)	7025HK0811012-IL	7025HK0904012-IL	7025HK0904012-IL	
		2..P.C.B SUB ASSY (AMP)	7028067521010-IL	7028067521040-IL	7028067521040-IL	
NSP	P50-61	1..P.C.B TOTAL ASSY (INPUT)	7025HK0812013-IL	7025HK0904013-IL	7025HK0904013-IL	
2..P.C.B SUB ASSY (INPUT)		7028067531020-IL	7028067531060-IL	7028067531060-IL		
NSP	P50-62	1..P.C.B TOTAL ASSY (VIDEO)	7025HK0812014-IL	7025HK0904014-IL	7025HK0904014-IL	
2..P.C.B SUB ASSY (VIDEO)		7028067551010-IL	7028067551040-IL	7028067551040-IL		
NSP	P50-63	1..P.C.B TOTAL ASSY (DSP)	7025HK0812015-IL	7025HK0904015-IL	7025HK0904015-IL	
		2..P.C.B SUB ASSY (DSP)	7028067561020-IL	7028067561050-IL	7028067561050-IL	
		2..P.C.B SUB ASSY (REG)	Not used	7028067562010-IL	7028067562010-IL	
NSP	P50-31	1..P.C.B TOTAL ASSY (HDMI)	7025HK0812016-IL	7025HK0904016-IL	7025HK0904016-IL	
2..P.C.B SUB ASSY (HDMI)		7028067581010-IL	7028067951010-IL	7028067951010-IL		
NSP	P50-64	1..P.C.B TOTAL ASSY (SPEAKER)	7025HK0812017-IL	7025HK0904017-IL	7025HK0904017-IL	
2..P.C.B SUB ASSY (SPEAKER)		7028067601030-IL	7028067601060-IL	7028067601060-IL		
NSP	P50-27 P50-24 P50-23 P50-49 P50-48 P50-47	1..P.C.B TOTAL ASSY (MAIN)	7025HK0812010-IL	7025HK0904020-IL	7025HK0904010-IL	
		2..P.C.B SUB ASSY (MAIN)	7028067501020-IL	70280675010D0-IL	70280675010E0-IL	
		2..P.C.B SUB ASSY (GUIDE-L)	7028067502010-IL	70280675020D0-IL	70280675020E0-IL	
		2..P.C.B SUB ASSY (GUIDE-R)	7028067503010-IL	70280675030D0-IL	70280675030E0-IL	
		2..P.C.B SUB ASSY (CNT)	7028067504010-IL	70280675040D0-IL	70280675040E0-IL	
		2..P.C.B SUB ASSY (P/T)	7028067505010-IL	70280675050D0-IL	70280675050E0-IL	
		2..P.C.B SUB ASSY (H/P GUIDE)	7028067506010-IL	70280675060D0-IL	70280675060E0-IL	
NSP		1..P.C.B TOTAL ASSY (VOLTSEL)	Not used	7025HK0904028-IL	Not used	
		2..P.C.B SUB ASSY (VOLTSEL)	Not used	7028067621030-IL	Not used	
		PACKING SECTION				No. 2
	P47-4	Remote Control	8300753600010-IL	8300756600010-IL	8300756600010-IL	
	P47-6	"Box, Gift 519K_MY"	6007211340020-IL	6007211340090-IL	60072113400A0-IL	
	P47-10	Operating Instructions (En/Fr/Ru)	5707000001920-IL	Not used	Not used	
NSP	P47-11	Warrantv Card	ARY7127	Not used	Not used	

Mark	No.	Symbol and Description	VSX-519V-K /MYSXCN5	VSX-RS319V-K /FLXCN	VSX-RS319V-K /DWXCN	Remarks
NSP	P47-14	Label Getter	5507000003610-IL	5507000003690-IL	5507000003690-IL	
	P47-22	Operating Instructions (It/De/Nl/Es)	5707000002100-IL	Not used	Not used	
		Operating Instructions (En/Zhtw/Es)	Not used	5707000000690-IL	Not used	
		Operating Instructions (En)	Not used	Not used	5707000000680-IL	
		Sheet (AC cord caution)	Not used	5227000000430-IL	Not used	
		Sheet (AC cord caution)	Not used	5227000000440-IL	Not used	
	⚠ ⚠	Sheet(Caution)	Not used	5227000000850-IL	Not used	
		Sheet	Not used	5227000001050-IL	5227000001050-IL	
		Pad	Not used	6240210690000-IL	Not used	
		Power Cord	Not used	L068125070060-IL	Not used	
		Power Cord	Not used	L068250100040-IL	Not used	
	EXTERIOR SECTION					
	P50-1	Window	5077212673010-IL	5077212673020-IL	5077212673020-IL	
	P50-3	Knob	5080211931100-IL	5080212011000-IL	5080212011000-IL	
	P50-6	Panel	3067214161100-IL	3067214161130-IL	3067214161130-IL	
	⚠ P50-42	Power Trans	8200960610520-IL	8200960610480-IL	8200960610490-IL	
	P50-43	Chassis	3207212686110-IL	3207212686220-IL	3207212686120-IL	
	P50-45	Cabinet	3007211276010-IL	3007211276100-IL	3007211276010-IL	
		Cover	Not used	4310212122020-IL	Not used	No. 3
		Cover	Not used	4310213701000-IL	Not used	No. 4
		Screw	Not used	BMZ30P100FTB	Not used	No. 5

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

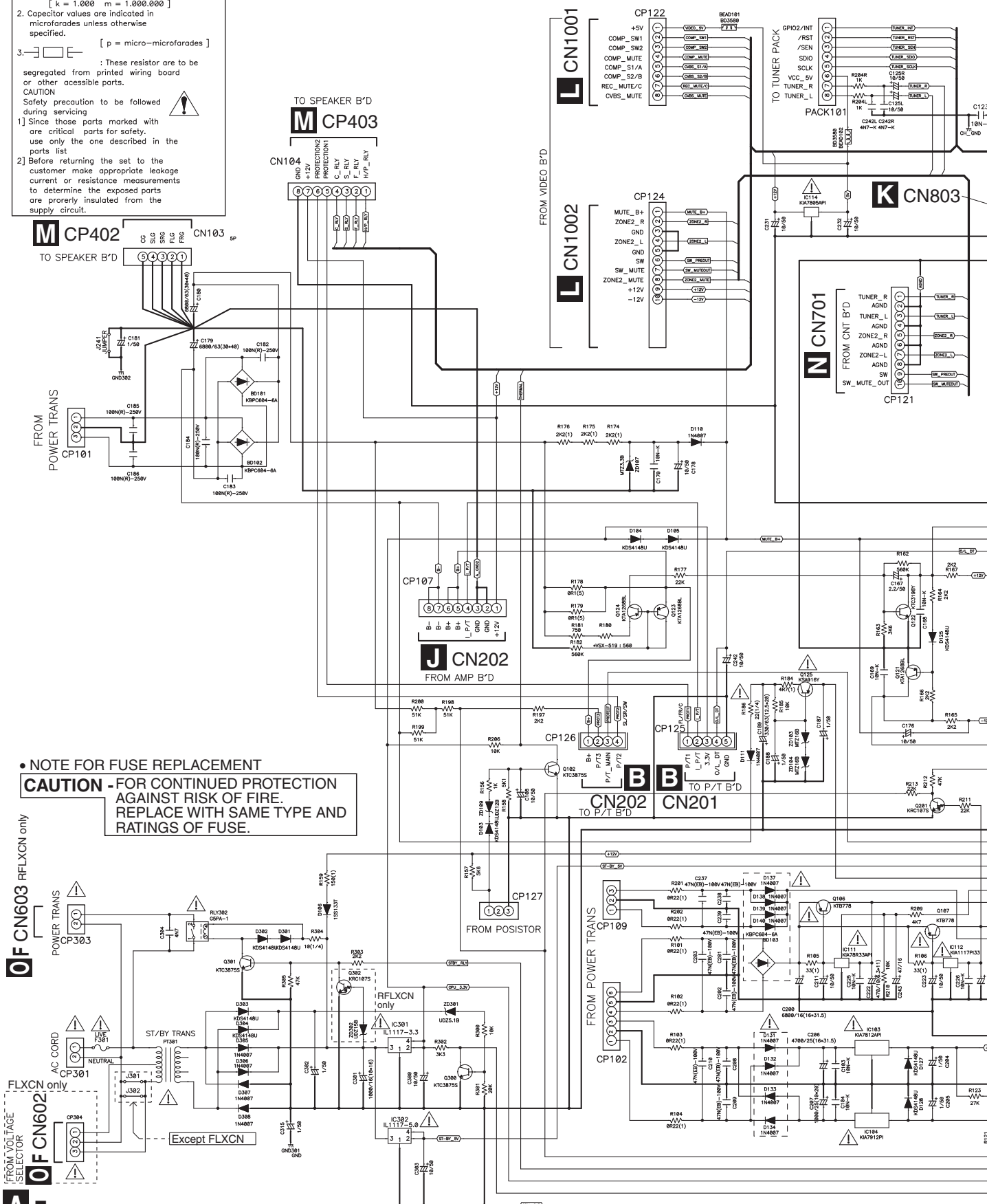
EXTERIOR SECTION



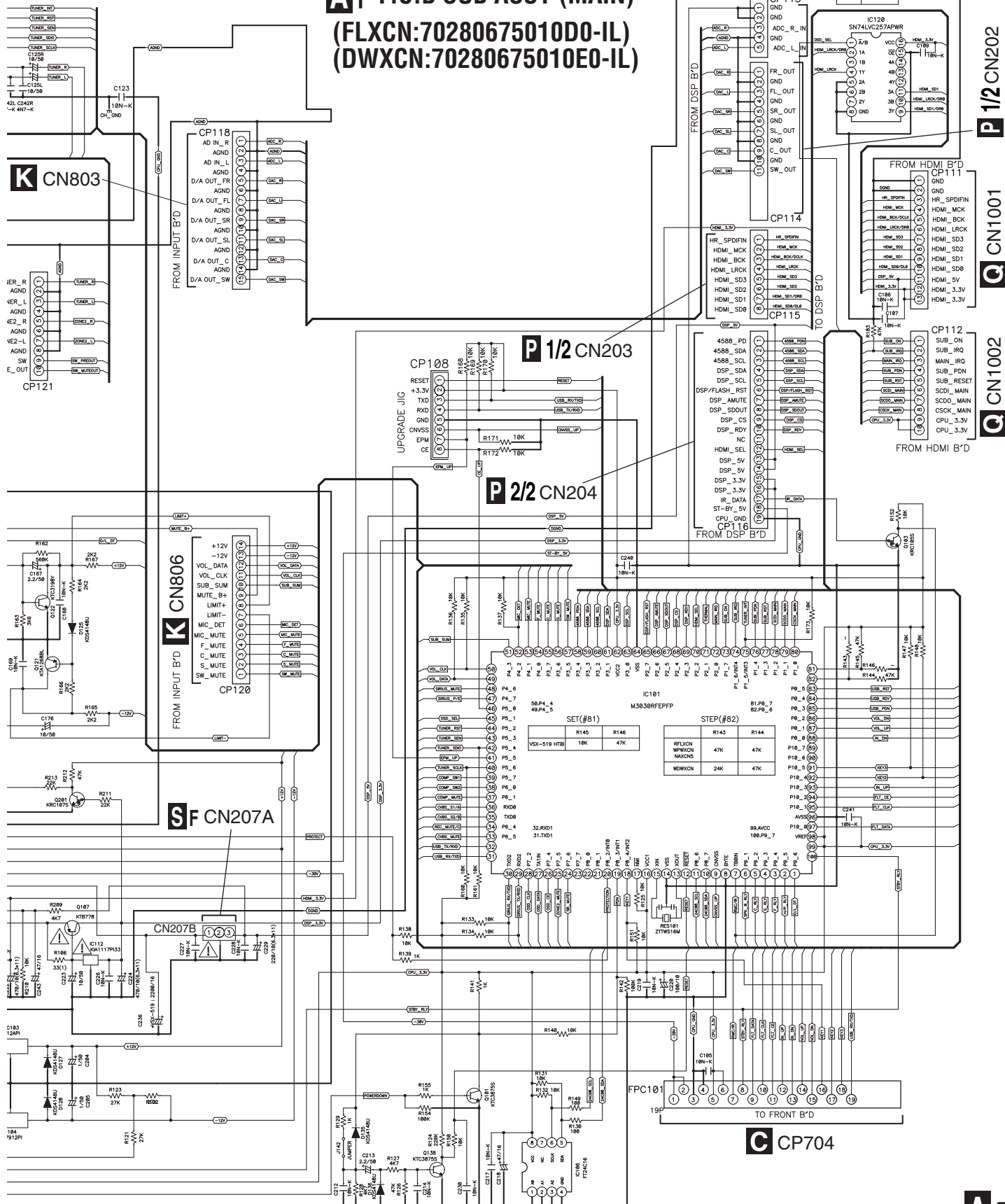
2. SCHEMATIC DIAGRAM

2.1 P.C.B SUB ASSY (MAIN)

- 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.  : 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.



A F P.C.B SUB ASSY (MAIN) **(FLXCN:70280675010D0-IL)** **(DWXCN:70280675010E0-IL)**



VSX-RS319V-K

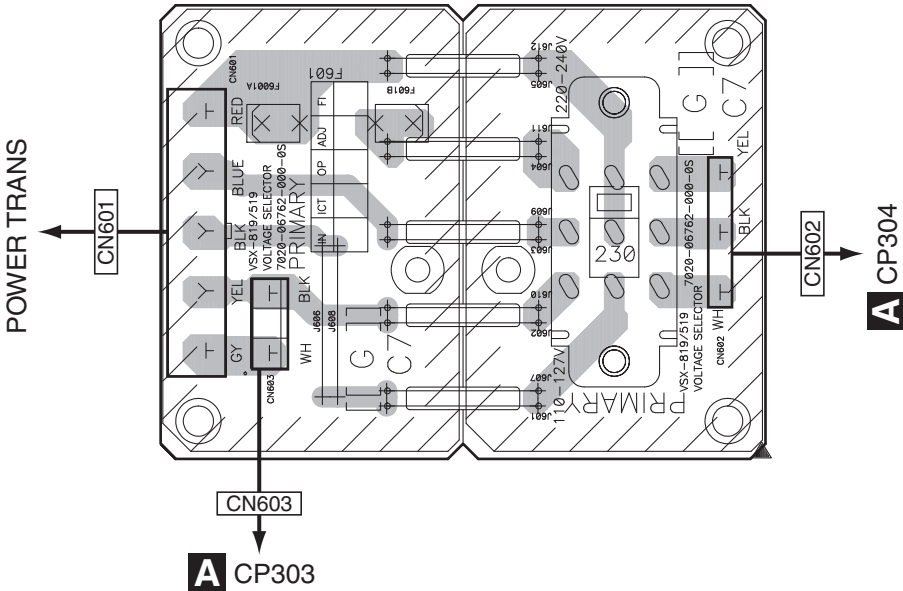
3. PCB CONNECTION DIAGRAM

3.1 P.C.B SUB ASSY (VOLTSEL) and P.C.B SUB ASSY (REG)

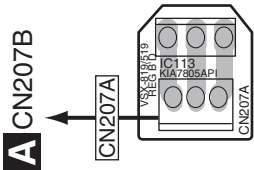
SIDE A

SIDE A

O F P.C.B SUB ASSY (VOLTSEL)



S F P.C.B SUB ASSY (REG)



VSX-RS319V-K

4. PCB PARTS LIST

Mark No. Description Part No.

A F P.C.B SUB ASSY (MAIN)

SEMICONDUCTORS

IC 101	8952319000010-IL
⚠ IC 103	J126781200040-IL
⚠ IC 104	J126791200060-IL
IC 106	J000241600020-IL
⚠ IC 111	J12678R330010-IL

⚠ IC 112	J126111733050-IL
⚠ IC 114	J126780500110-IL
⚠ IC 301	J126111700041-IL
⚠ IC 302	J126111750010-IL
Q 101,102,138,300	J522038750210-IL

Q 103	J522010500210-IL
⚠ Q 106,107	J501778000010-IL
Q 121,123,124	J5001268B0050-IL
Q 122	J5023198Y0000-IL
⚠ Q 125	J5000916Y0050-IL

Q 301	J522038750210-IL
Q 302	J522107S00210-IL
D 104,105,125,127	K005041480030-IL
D 128,135,136	K005041480030-IL
⚠ D 301-304	K005041480030-IL

D 1101-1103(BD101-103)	K047604000020-IL
------------------------	------------------

MISCELLANEOUS

L 101,102(BEAD101, 102) BEAD,COIL	7610010030000-IL
JA 101 TUNER	E903004100020-IL
RY302 RELAY	G680060502010-IL
⚠ T 301 (/FLXCN) POWER TRANS	8200280150610-IL
⚠ T 301 (DWXCN) POWER TRANS	8200280150420-IL

X 101 RESONATOR,CERAMIC	E830160000060-IL
101 HEAT SINK	2120210958050-IL
104,114 HEAT SINK	2120000818020-IL
⚠ FU 301 (/FLXCN) FUSE GLASS TUBE 20MM	N751226301110-IL
⚠ FU 301 (DWXCN) FUSE GLASS TUBE 20MM	N751223151110-IL

RESISTORS

R 101-104,201,202	C060R22065050-IL
R 105,106	C060033065050-IL
R 159	C060015165050-IL
R 174-176	C060022265050-IL
R 178,179	C141R10069010-IL

R 184	C0604R7065050-IL
⚠ R 186	C060022065050-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	D040471082060-IL
C 236	D040222083080-IL
C 237-239	D02047306C060-IL

C 301	D040102083030-IL
C 304	D00847208H010-IL

Mark No. Description Part No.

B F P.C.B SUB ASSY (P/T)

SEMICONDUCTORS

Q 126,128,131,134	J5001268B0050-IL
Q 127,129,130,132	J5023198Y0000-IL
Q 133,135,136	J5023198Y0000-IL
D 112,113	K005041480030-IL

MISCELLANEOUS

201 BRACKET	4010210196000-IL
-------------	------------------

RESISTORS

R 189	C00004736P520-IL
R 190	C060047363050-IL

C F P.C.B SUB ASSY (FRONT)

SEMICONDUCTORS

IC 701	J127163150010-IL
IC 7011 (RMC701)	E940343800010-IL
⚠ Q 702	J5000933S0050-IL
Q 703	J522107S00210-IL

MISCELLANEOUS

L 701 COIL	D330101001020-IL
L 702 COIL,FILTER-INDUCTOR	D330100700520-IL
V 701 DISPLAY,FLT	K530126300010-IL
S 701-714 SWITCH	G180501000010-IL
0 HOLDER	432004078301A-IL

RESISTORS

R 779,780	C0602R2063050-IL
-----------	------------------

CAPACITORS

C 718,719	D02047306C060-IL
-----------	------------------

D F P.C.B SUB ASSY (VOLUME)

SEMICONDUCTORS

D 707,709	K005041480030-IL
-----------	------------------

MISCELLANEOUS

S 702 SW,ENCODER	G121123040010-IL
------------------	------------------

E F P.C.B SUB ASSY(FUNCTION)

SEMICONDUCTORS

D 711,712	K005041480030-IL
-----------	------------------

MISCELLANEOUS

S 701 SW,ENCODER	G121123050020-IL
S 715 SWITCH	G180501000010-IL

F F P.C.B SUB ASSY(HEADPHONE)

SEMICONDUCTORS

D 705,706	K005041480030-IL
-----------	------------------

MISCELLANEOUS

JA 701 JACK,D6.5	G402PJ619AG0Y-IL
------------------	------------------

Mark	No.	Description	Part No.
A	I	F P.C.B SUB ASSY (PORTABLE)	
		SEMICONDUCTORS	
	D	713,714	K005041480030-IL
		MISCELLANEOUS	
	JA 703	JACK,D3.5	G401PJ354H70Y-IL

J F P.C.B SUB ASSY (AMP)

SEMICONDUCTORS

Q	2021-2025,2061-2065	J5023200B0050-IL
Q	2031-2035,2041-2045	J5000992F0050-IL

MISCELLANEOUS

L	2011-2015 COIL,FILTER-INDUCTOR	D330900001330-IL
	VR 2011-2015 VR,SEMI CARBON MOLD	C541102315000-IL

RESISTORS

R	227,229	C060010065050-IL
R	2011-2015	C00007526P520-IL
R	2021-2025,2071-2075	C060056265050-IL
R	2031-2035	C00002226P520-IL
R	2041-2045	C00004746P520-IL

R	2051-2055,2231-2235	C0604R7063050-IL
R	2061-2065	C00001836P520-IL
R	2081-2085	C00008216P520-IL
	R 2091-2095,2101-2105	N113136647820-IL
	R 2111-2115	C00002216P520-IL

R	2121-2125,2181-2185	C00003336P520-IL
R	2131-2135	C00003026P520-IL
R	2141-2145	C060010065520-IL
	R 2151-2155,2161-2165	N113136647820-IL
	R 2191-2195	C00003346P520-IL

R	2201-2205	C00005616P520-IL
R	2211-2215,2251-2255	C00001226P520-IL
R	2221-2225	C00004736P520-IL
R	2241-2245	C060047063050-IL
R	2261-2265	C00004716P520-IL

R	2281-2285	N113135610020-IL
---	-----------	------------------

CAPACITORS

C	2011-2015,2111-2115	D00410106D050-IL
C	2031-2035	D00422106D05C-IL
C	2041-2045	D00033006D050-IL
C	2091-2095	D004471277050-IL
C	2101-2105	D004102277050-IL

C	2131-2135,2141-2145	D02010406C060-IL
---	---------------------	------------------

K F P.C.B SUB ASSY (INPUT)

SEMICONDUCTORS

IC	801	J084152180010-IL
IC	802	J121458000020-IL
Q	801,803,805,806	J5222875B0010-IL
Q	802,804,807,809	J520010200210-IL
Q	808	J5222875B0010-IL

D	801-810	K005041480030-IL
---	---------	------------------

MISCELLANEOUS

JA	802-804 TER,RCA 6PIN	G603610A02000-IL
----	----------------------	------------------

Mark	No.	Description	Part No.
		RESISTORS	
		R 874,875	C060010165060-IL
		CAPACITORS	
	C	803,830	D02022306C060-IL
	C	804,829	D02047306C060-IL
	C	805,828	D020154078060-IL

L F P.C.B SUB ASSY (VIDEO)

SEMICONDUCTORS

IC	1001	J171795600010-IL
IC	1003	J171258600010-IL
IC	1004	J126790500070-IL
	IC 1005	J121458000020-IL
Q	1001-1006	J5222875B0010-IL

Q	1007	J520010200210-IL
Q	1008,1010	J5023198Y0000-IL
Q	1009,1011	J522107S00210-IL
D	1001,1002	K005041480030-IL

MISCELLANEOUS

L	1001	BEAD,COIL	7610035500030-IL
JA	1001	TER,RCA 3PIN	G6060319D1B1Y-IL
JA	1002	TER,RCA	G608610D0209Y-IL
JA	1003	TER,RCA 9PIN	G607902AD016Y-IL

CAPACITORS

C	1009,1012,1016	D040471081070-IL
---	----------------	------------------

M F P.C.B SUB ASSY (SPEAKER)

SEMICONDUCTORS

Q	401-404	J522010500210-IL
D	401-408	K005041480030-IL

MISCELLANEOUS

JA	401	TER,BOARD SCREW 4P	G612405E0200Y-IL
JA	402	TER,BOARD PUSH 4P	G594408SA030Y-IL
JA	403	TER,BOARD PUSH 2P	G592212A0300Y-IL
RY	401-403	RELAY	G680120502050-IL
RY	404	RELAY	G680240202030-IL

RESISTORS

R	4016,4017(R401L, R401R)	C060033166520-IL
---	-------------------------	------------------

CAPACITORS

C	4013-4017	D02015306C060-IL
C	4022-4024,4026,4027	D02010406C060-IL

N F P.C.B SUB ASSY (CNT)

P.C.B SUB ASSY (CNT) has no service part.

O F P.C.B SUB ASSY (VOLTSEL)

MISCELLANEOUS

	S	601	SW,SLIDE	G060329140000-IL
	CN	601	CN.WAFER 7.92MM	L108353280560-IL
		0	SUPPORTER	4070210192000-IL
		0	SPACER(PLS)	4300210062000-IL
	FU	601	FUSE GLASS TUBE 20MM	N751223151110-IL

FU	6011,6012	HOLDER,FUSE CLIP	G645000050010-IL
----	-----------	------------------	------------------

P F P.C.B SUB ASSY (DSP)

SEMICONDUCTORS

IC 100	J001421640040-IL
IC 101	8952519000030-IL
IC 102	J080320787010-IL
IC 106	J040742570030-IL
IC 109	J080458800010-IL
IC 110	J040740400290-IL
IC 806	J030151100010-IL
⚠ IC 1011,1021(REG101, REG102)	J126111712040-IL
Q 802	J522010500210-IL
D 101-103	K005041480030-IL

MISCELLANEOUS

L 115,116 COIL	D3304R7000150-IL
L 117 COIL	D3302R2000150-IL
L 120 BEAD, COIL	7610035500030-IL
JA 102 TER, RCA 1PIN	G600107A0000Y-IL
JA 105,106 OPTICAL RECEIVER	E100116500040-IL
JA 804 JACK, D3.5	G40130802000Y-IL
X 101 CRYSTAL CHIP (24.576 MHz)	E80524R576020-IL

CAPACITORS

C 823,825	D02012306C060-IL
-----------	------------------

Q F P.C.B SUB ASSY (HDMI)

SEMICONDUCTORS

IC 1001	J040918500020-IL
⚠ IC 1005	J126111710011-IL
Q 1007	J522104S00210-IL

MISCELLANEOUS

JA 2001-2003 CN. WAFER	L109100190050-IL
------------------------	------------------

S F P.C.B SUB ASSY (REG)

SEMICONDUCTORS

⚠ IC 113	J126780500110-IL
----------	------------------

P.C.B SUB ASSY (GUIDE-L)

MISCELLANEOUS

801 JHMX9800(ON)HAITI)	4330000120000-IL
------------------------	------------------

P.C.B SUB ASSY (GUIDE-R)

MISCELLANEOUS

901,902 JHMX9800(ON)HAITI)	4330000120000-IL
----------------------------	------------------

P.C.B SUB ASSY (H/P GUIDE)

MISCELLANEOUS

601 BRACKET	4010210196000-IL
-------------	------------------