

Service Manual

ORDER NO.
RRV2699

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-C400-S

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-C400-S		
SDBXU	○	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-C100-S/MYXU	RRV2605	

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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.
- 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.)

- 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%).

$560 \Omega \rightarrow 56 \times 10^1 \rightarrow 561 \dots\dots\dots RD1/4PU \begin{bmatrix} 5 & 6 & 1 \end{bmatrix} J$
 $47k \Omega \rightarrow 47 \times 10^3 \rightarrow 473 \dots\dots\dots RD1/4PU \begin{bmatrix} 4 & 7 & 3 \end{bmatrix} J$
 $0.5 \Omega \rightarrow R50 \dots\dots\dots RN2H \begin{bmatrix} R & 5 & 0 \end{bmatrix} K$
 $1 \Omega \rightarrow 1R0 \dots\dots\dots RS1P \begin{bmatrix} 1 & R & 0 \end{bmatrix} K$

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

$5.62k \Omega \rightarrow 562 \times 10^1 \rightarrow 5621 \dots\dots\dots RN1/4PC \begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix} F$

■ CONTRAST TABLE

VSX-C400-S/MLXU and VSX-C100-S/SDBXU are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-C100-S /MYXU	VSX-C400-S /SDBXU	
P9- 3	NSP	PCB ASSEMBLIES COMPLEX 1 Assy └ POWER Assy └ VOLTAGE SEL. Assy	AWM7673 AWX8042 Not used	AWM7682 AWX8068 AWX8069	No. 1
P9- 1	NSP	COMPLEX 2 Assy └ DSP Assy	AWM7674 AWX8049	AWM7769 AWX8071	
P11- 1	NSP	└ FRONT Assy	AWX8050	AWX8072	
P11- 2		└ SW ASSY	AWX8051	Not used	
P11- 5		└ FRONT INPUT ASSY	AWX8053	Not used	
P11- 2	NSP	COMPLEX3 ASSY	Not used	AWM7737	No. 21 No. 22
P11- 5	NSP	└ SW ASSY	Not used	AWX8137	
		└ FRONT INPUT ASSY	Not used	AWX8138	
P9- 7		FM/AM TUNER MODULE	AXQ7232	AXQ7228	
PACKING SECTION					
P7- 1	NSP	FM Wire Antenna	ADH7030	ADH7004	
P7- 3		Polyethylene Bag	AHG7097	Z21-038	
P7- 4		Warranty Card	ARY7022	Not used	
P7- 5	NSP	Remote Control Unit	AXD7323	AXD7324	No. 2
P7- 8		Left Pad	AHA7381	AHA7398	
P7- 9		Right Pad	AHA7382	AHA7399	
P7-11		Packing Case	AHD8065	AHD8137	No. 2
P7-12		Operating Instructions (English)	ARB7260	ARB7275	
P7-13		Operating Instructions (German)	ARC7382	Not used	
		Operating Instructions (Chinese/Spanish)	Not used	ARC7452	
P7-14	NSP	Operating Instructions (French/Italian)	ARC7384	Not used	No. 4 No. 5
P7-15		Operating Instructions (Dutch/Spanish)	ARC7385	Not used	
P7-18		Spacer	AHC7026	Not used	
		AC Plug Adapter	Not used	XKM3001	
		Caution 220V Label	Not used	ARR1003	
EXTERIOR SECTION					
P9-10	⚠	Power Transformer	ATS7336	ATS7338	No. 6
P9-11	⚠	Fuse (FU1) (T1.25A/250V)	REK1023	Not used	
P9-11	⚠	Fuse (FU1) (2.5A/250V)	Not used	REK1026	
	⚠	Fuse (FU2, FU3) (T1.25A/250V)	Not used	REK1023	
P9-21		Ring	VNK4840	Not used	
P9-24		Rear Panel	ANC8077	ANC8079	
P9-40		Front Panel Assv	AXG7157	AXG7180	

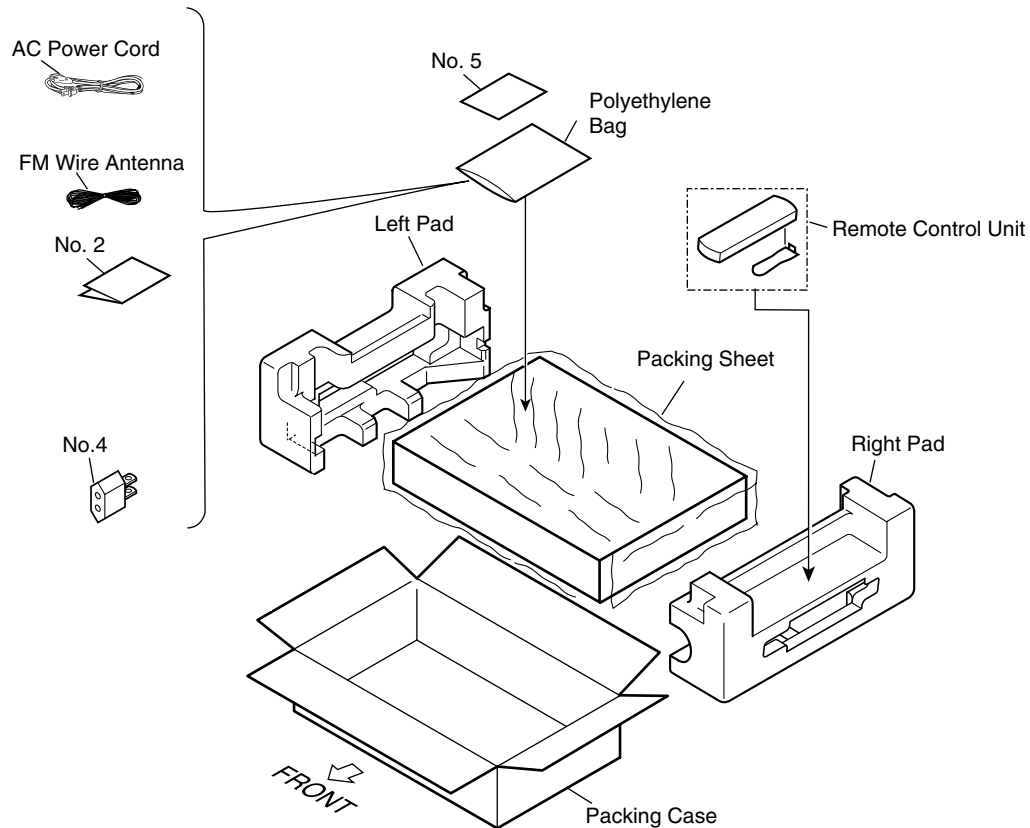
Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-C100-S /MYXU	VSX-C400-S /SDBXU	
P9-49	NSP ⚠	Label	ARW7171	ARW7199	
		Fuse Card	Not used	AAX7277	No. 7
		Voltage Selector	Not used	AKX-507	No. 8
		SD Barrier(PLS)	Not used	AEC7412	No. 9
		Nylon Rivet	Not used	AEC7436	No.10
	NSP	Cord Clamper	Not used	ZCA-BK1	No.11
		EMC Label C100	Not used	ARW7159	No.12
		Caution Label	Not used	ARW7203	No.13
FRONT PANEL SECTION					
P11- 6	NSP	Front Panel Assy	AXG7157	AXG7180	No. 23
P11- 7		Function Button	AAD7652	AAD7688	No. 24
P11- 9		Name Plate	VAM1129	Not used	
P11-11	NSP	LED lens	AAK7961	AAK8058	No. 25
P11-13		Power Button	AAD7654	AAD7689	No. 26
P11-18	NSP	Display Panel	AAK7960	Not used	No. 27
		Display Panel	Not used	AAK8079	
P11-19	NSP	Hologram Mold	AAK7964	Not used	
P11-22	NSP	Front Panel	AMB7812	AMB7834	No. 28
		Front Input Cover	Not used	AAK8074	No. 29

Notes : For PCB ASSEMBLIES, Refer to “CONTRAST OF PCB ASSEMBLIES”, “2. SCHEMATIC DIAGRAM” and “3. PCB CONNECTION DIAGRAM”.

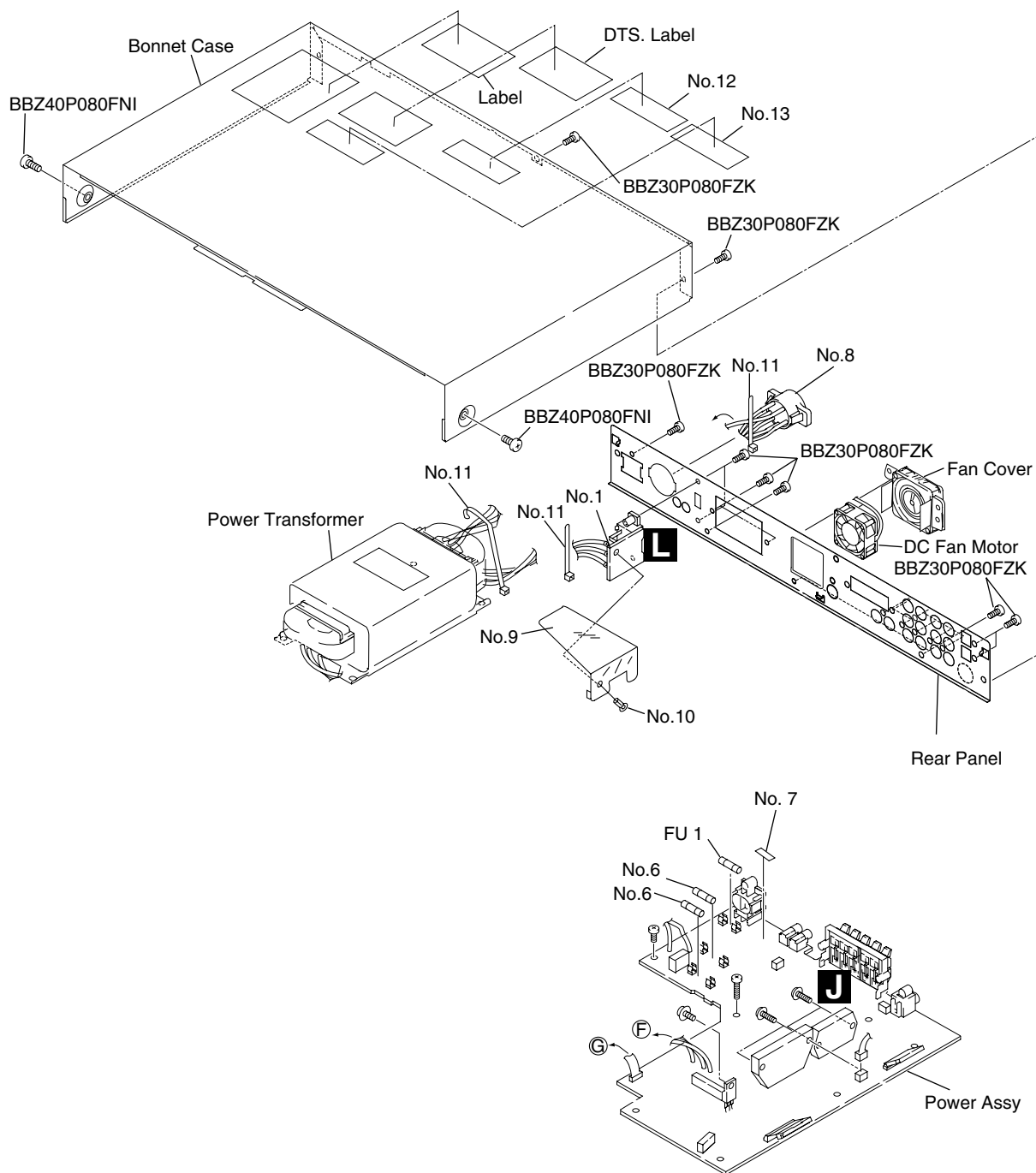
The numbers in the remarks column correspond to the numbers on the “EXPLODED VIEWS”.

EXPLODED VIEWS

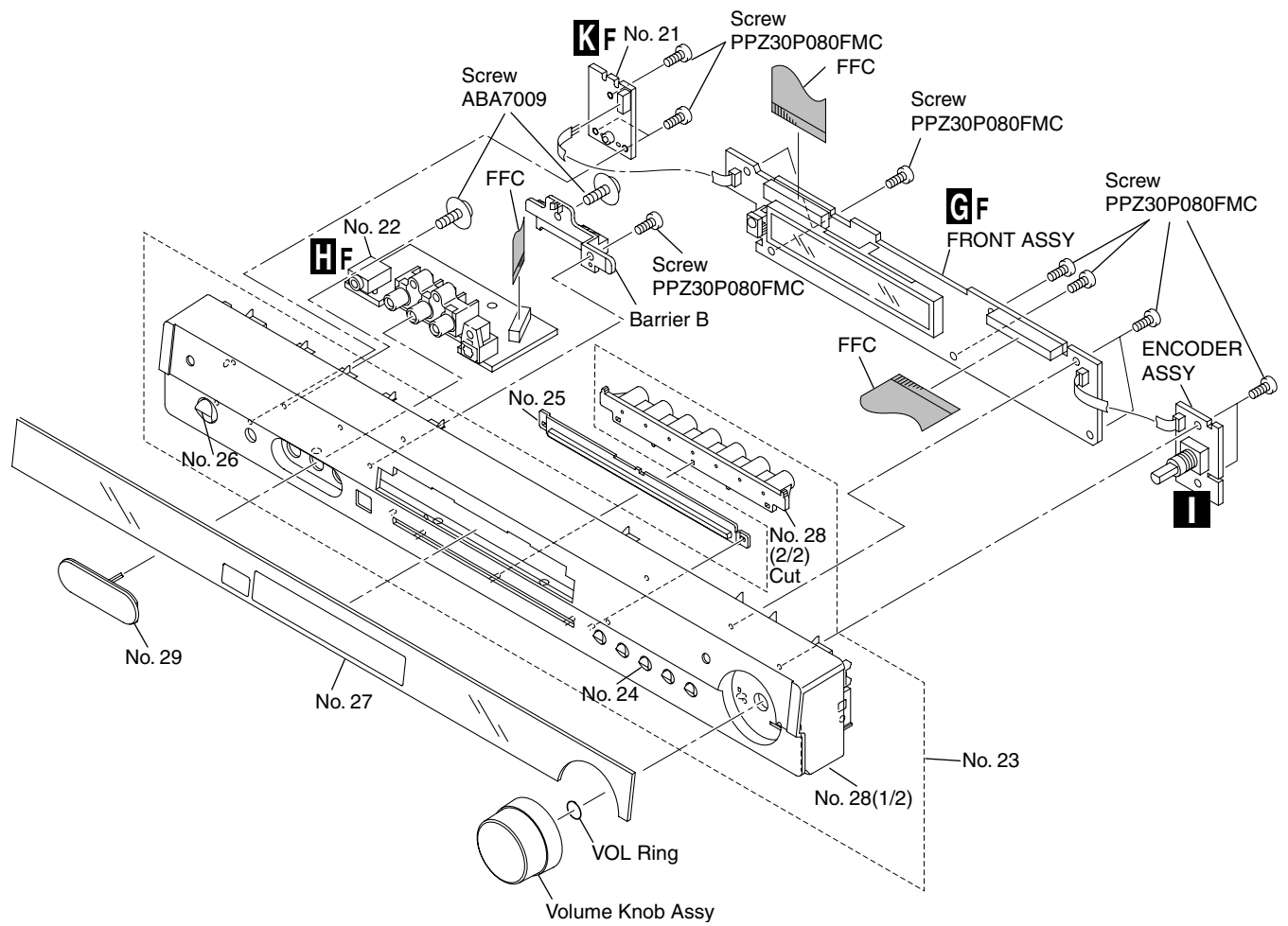
PACKING SECTION



● EXTERIOR SECTION



● FRONT PANEL SECTION



■ CONTRAST OF PCB ASSEMBLIES

BF DSP ASSY

AWX8071 and AWX8049 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8049	AWX8071	
	R0750 R0751 R1701, R1702, R1711, R1712, R1721 R1709, R1710, R1719, R1720, R1725 C1701, C1702, C1713, C1714, C1723 C1703, C1704, C1717, C1718, C1724 C1707, C1708, C1715, C1716, C1725 C1709, C1710, C1721, C1722, C1726	Not used RS1/16S0R0J RS1/16S152J RS1/16S102J CKSRYB562K50 CCSRCH100D50 CKSRYB333K25 CKSRYB104K25	RS1/16S0R0J Not used RS1/16S332J RS1/16S822J CKSRYB103K50 CCSRCH150J50 CKSRYB473K50 CKSRYB223K50	

GF FRONT ASSY

AWX8072 and AWX8050 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8050	AWX8072	
	IC 4681 RDS Recorder Q4681 Q4682 Q4683 R4237 R4238 R4337, R4338 R4681 R4682 R4683 R4684 R4685- R4687 C4681, C4682 C4683 C4684 C4685 C4686 C4688 C4689, C4690 L4681 X4681 Ceramic Reso.(4.3MHz)	BU1923F 2SA1037K DTC143EK 2SC3326 RS1/16S104J RS1/16S473J Not used RS1/16S473J RS1/16S222J RS1/16S333J RS1/16S104J RS1/16S102J CKSRYB102K50 CEJQ101M10 CEAT1R0M50 CKSRYB472K50 CEJQ2R2M50 CKSRYB561K50 CCSRCH270J50 LFEA2R2J ASS7004	Not used Not used Not used Not used RS1/16S473J Not used RS1/16S0R0J 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	

HF FRONT INPUT ASSY

Although AWX8138 and AWX8053 are different in part number, they have the same service parts.

KF SW ASSY

AWX8137 and AWX8051 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8051	AWX8137	
	4501 3P CABLE HOLDER CN4501 3P CONNECTOR	51048-0300 Not used	Not used 52147-0310	

JF POWER ASSY

AWX8068 and AWX8042 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8042	AWX8068	
△	CN 101 2P-VE Connector	B2P3-VH	Not used	
△	T 101 Sub Transformer	ATT7037	ATT7075	
△	CN 102 2P-VE Connector	Not used	B2P3-VH	
	H103- H106 Fuse Clip	Not used	AKR7001	
NSP	J104 Board in Jumper Wire	Not used	DB318EB0	
NSP	J106 Board in Jumper Wire	Not used	DB917NB0	
NSP	J107 Board in Jumper Wire	Not used	DB118NB0	
NSP	J108 Board in Jumper Wire	Not used	DB717NB0	
NSP	102 Capacitor Cover	Not used	VEC1912	

PCB PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
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AF FM/AM TUNER MODULE (AXQ7228)

SEMICONDUCTORS

IC201	BA1451F
IC202	LC72131MD
Q201, Q204, Q205	2SC2412K
Q202	DTA124ES
Q203	DTC124EK
D201	1SS133
D202	MTZJ5.1C

COILS AND FILTERS

L201	FM DETECTOR COIL	ATE7003
F202	CERAMIC FILTER	ATF-107
F201	CERAMIC FILTER	ATF-119
F203	AM CERAMIC FILTER	ATF1155

CAPACITORS

C206	CCSRCH100D50
C212, C213, C226, C233-C235	CCSRCH101J50
C240	CCSRCH101J50
C231, C232	CCSRCH150J50
C223	CEAT100M50
C229	CEAT101M10
C224	CEAT1R0M50
C227	CEAT220M25
C241	CEAT2R2M50
C243	CEAT330M16
C228	CEAT3R3M50
C237	CEAT470M10
C211	CEJA1R0M50
C210	CEJA470M16
C204, C238, C602	CKSRYB102K50

C101, C102, C208, C220, C239	CKSRYB103K50
C242, C601	CKSRYB103K50
C216, C217	CKSRYB123K50
C225	CKSRYB153K50
C201, C205, C209, C214, C230	CKSRYB223K50
C236, C603	CKSRYB223K50
C221	CKSRYB224K10
C202, C222	CKSRYB473K16
C215	CKSRYB681K50

RESISTORS

R211	RD1/4PU221J
R221	RD1/4PU222J
R233	RD1/4PU391J
R243	RS1/10S0R0J
R103	RS1/10S331J
R104	RS1/10S391J
Other Resistors	RS1/16S□□□J

OTHERS

CN201	13P CONNECTOR	52044-1345
BN201	TERMINAL 4P	AKA7003
	SHIELD CASE T	ANK7072
	SHIELD CASE B	ANK7073
X201	CRYSTAL RESONATOR (7.2000MHz)	ASS1093
	FM FRONT END	AXF7003
	AM RF TUNING BLOCK	AXX7071

VOLTAGE SELECT ASSY (AWX8069)

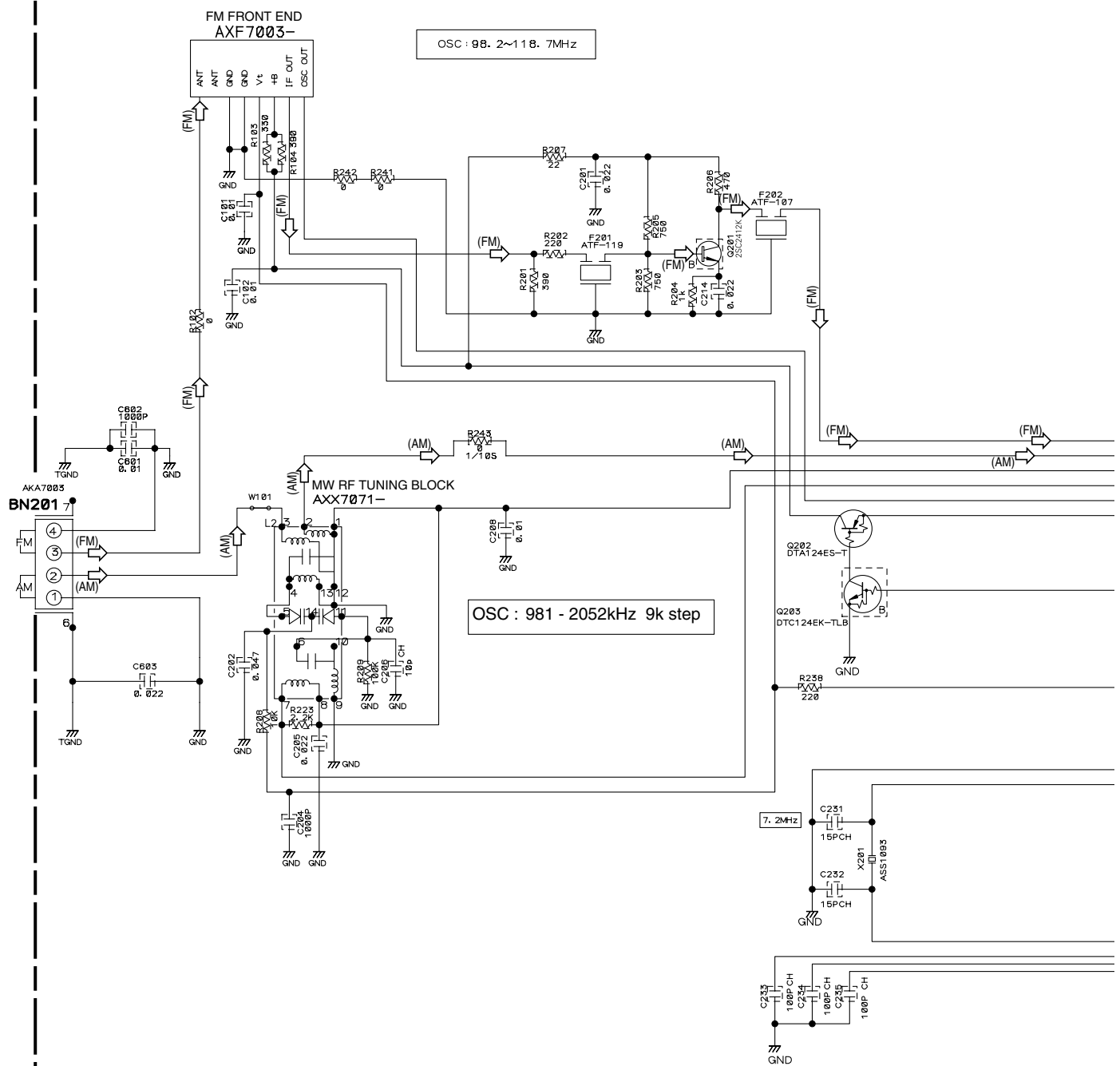
SWITCHES

△	S051	Voltage Selector	AKX1033
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2. SCHEMATIC DIAGRAM

2.1 FM/AM TUNER MODULE

AF FM/AM TUNER MODULE (AXQ7228)





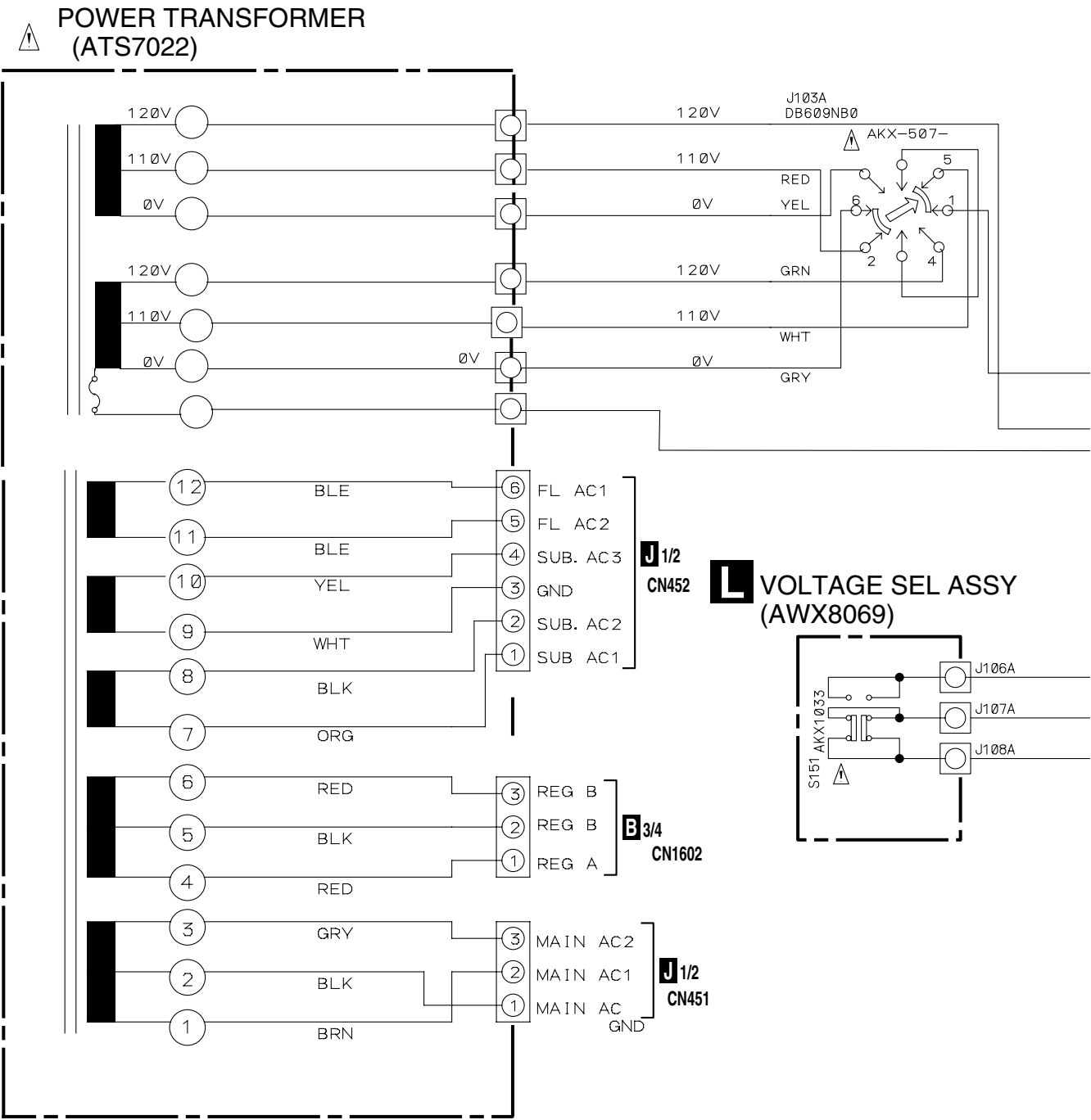
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2.4 VOLTAGE SEL. and POWER(2/2) ASSYS



J 2/2F POWER ASSY (AWX8068)

NOTE

1. RESISTORS

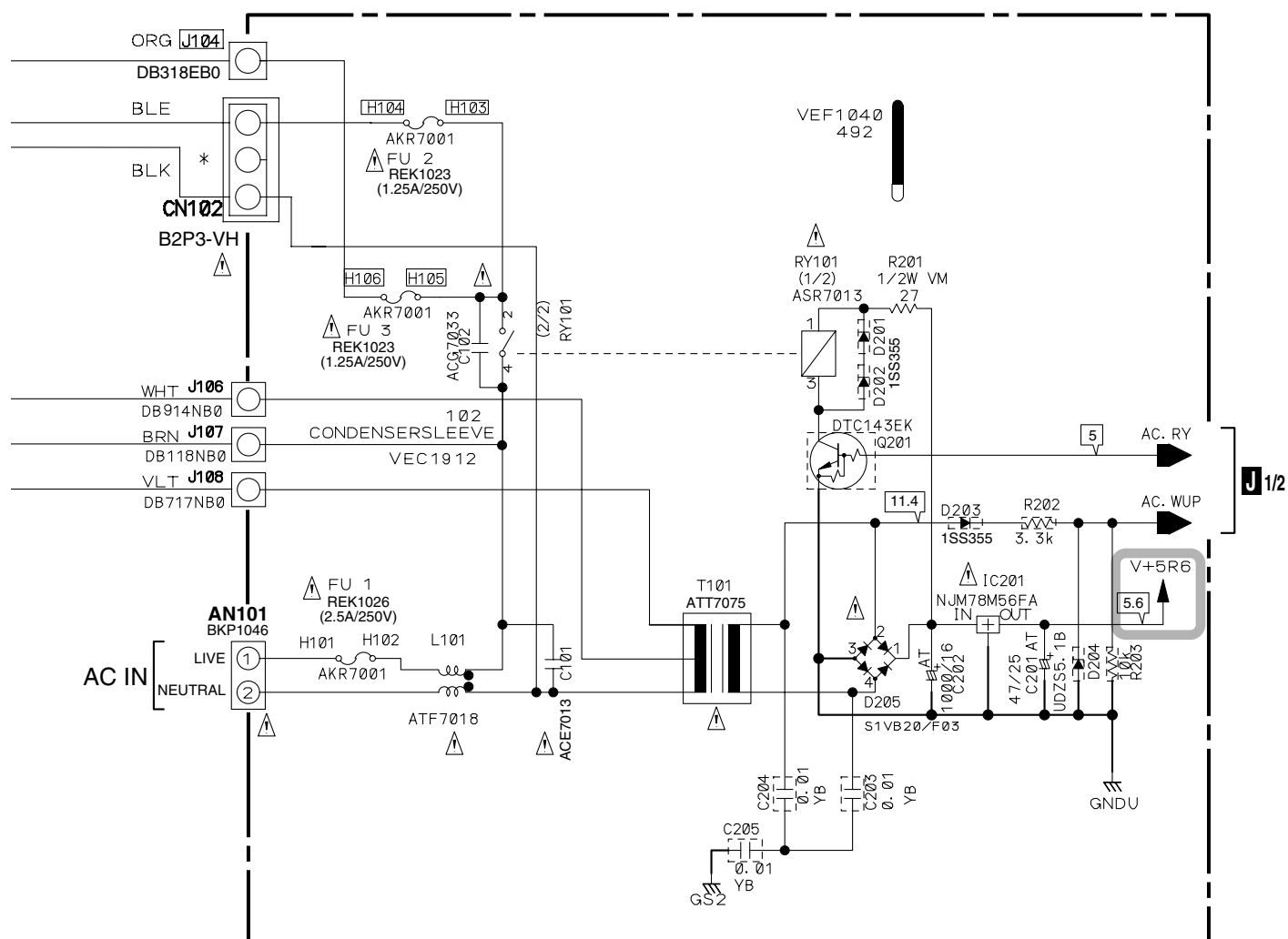
Unit: k- Ω , M- Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) $\pm 5\%$ unless otherwise noted.

2. CAPACITORS

Unit: p-pF or μ F unless otherwise noted.
Ratings: Capacity(μ F)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
AT:CEAT

3. DIODES

Indicated in 1SS355-TRB.



• NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

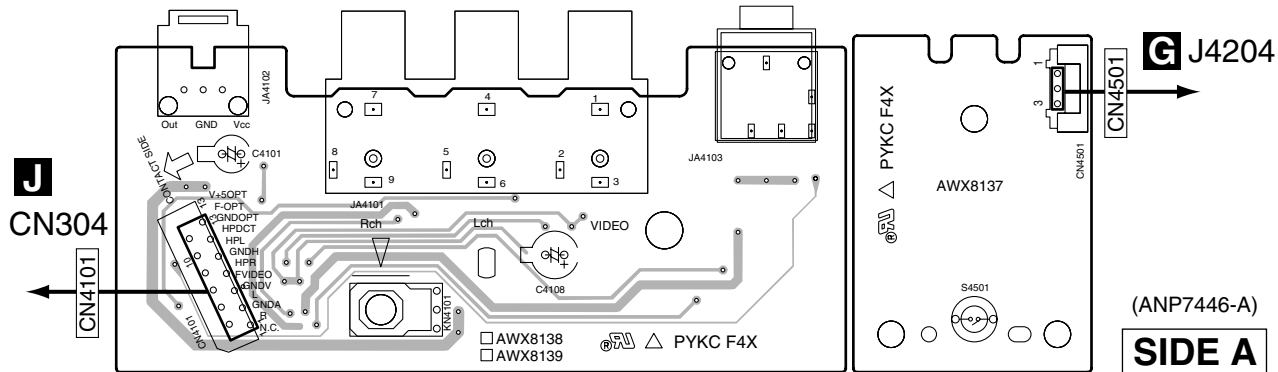
 : The power supply is shown with the marked box.

3. PCB CONNECTION DIAGRAM

3.1 FRONT INPUT, SW and VOLTAGE SEL. ASSYS

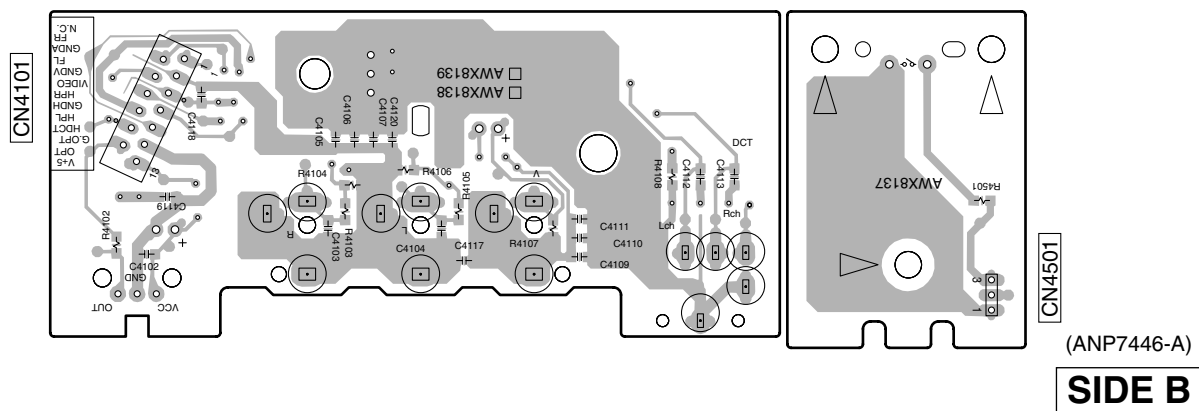
HF FRONT INPUT ASSY

KF SW ASSY



HF FRONT INPUT ASSY

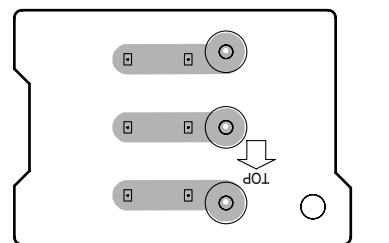
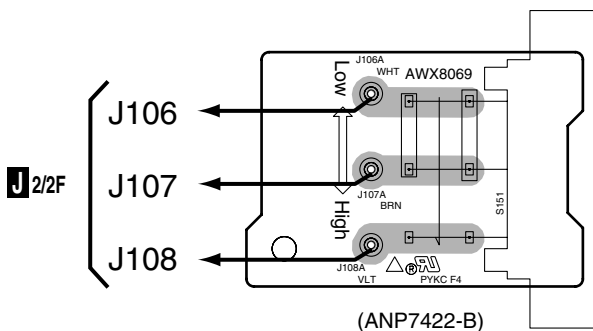
KF SW ASSY



L VOLTAGE SEL ASSY

SIDE A

SIDE B



(ANP7422-B)