

Service Manual

ORDER NO.
RRV2694

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-C100-S

VSX-C100-G

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-C100-S	SAXU	AC110V/120-127V/220V/240V	With the voltage selector
VSX-C100-G	SAXU	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	

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.)

● 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 $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J

47k $\rightarrow$ $47 \times 10^3 \rightarrow$ 473 RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J

0.5 $\rightarrow$ R50 RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$ K

1 $\rightarrow$ 1R0 RSIP $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K

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

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

■ CONTRAST TABLE

VSX-C100-S, VSA-C100-G/SAXU and VSX-C100-S/MYXU are constructed the same except for the following :

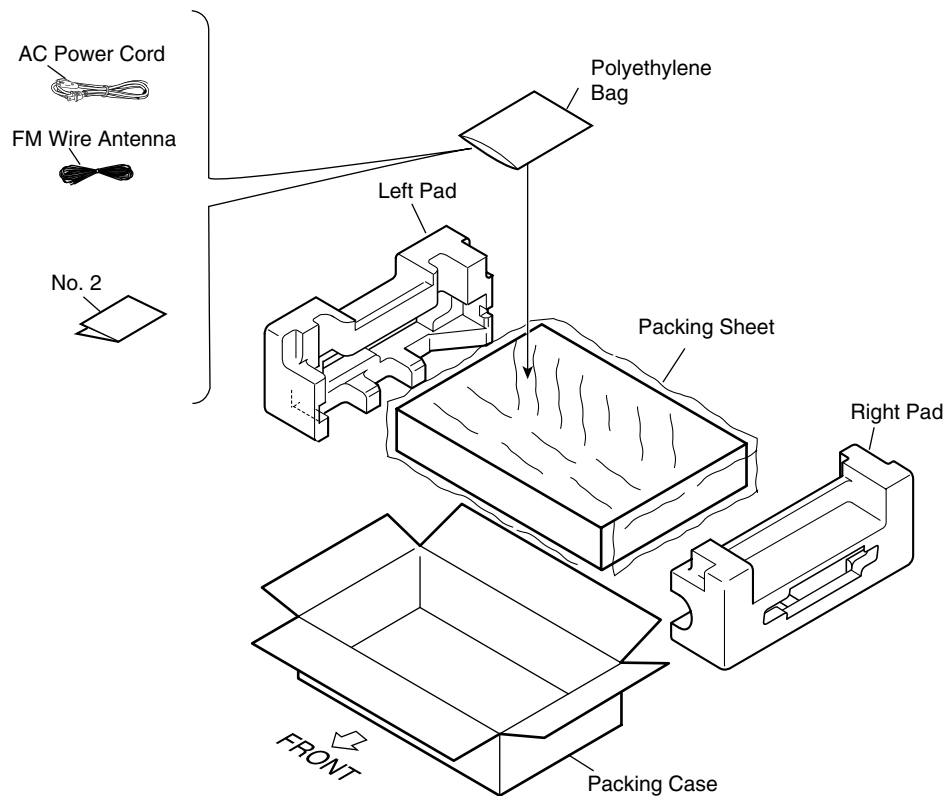
Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			VSX-C100-S /MYXU	VSX-C100-S /SAXU	VSX-C100-G /SAXU	
P9- 3	NSP	PCB ASSEMBLIES COMPLEX 1 Assy └ POWER Assy └ VOLTAGE SEL. Assy	AWM7673 AWX8042 Not used	AWM7682 AWX8068 AWX8069	AWM7682 AWX8068 AWX8069	No. 1
P9- 1 P11- 1	NSP	COMPLEX 2 Assy └ DSP Assy └ FRONT Assy	AWM7674 AWX8049 AWX8050	AWM7683 AWX8071 AWX8072	AWM7683 AWX8071 AWX8072	
P9- 7		FM/AM TUNER MODULE	AXQ7232	AXQ7228	AXQ7228	
P7- 1		PACKING SECTION FM Wire Antenna	ADH7030	ADH7004	ADH7004	No. 2
P7- 3	NSP	Polyethylene Bag	AHG7097	Z21-038	Z21-038	
P7- 4	NSP	Warranty Card	ARY7022	ARY7046	ARY7046	
P7- 5		Remote Control Unit	AXD7323	AXD7324	AXD7324	
P7-11		Packing Case	AHD8065	AHD8135	AHD8136	
P7-12		Operating Instructions(English)	ARB7260	Not used	Not used	
P7-13		Operating Instructions(German)	ARC7382	Not used	Not used	
		Operating Instructions(Chinese)	Not used	ARC7451	ARC7451	
P7-14		Operating Instructions(French, Italian)	ARC7384	Not used	Not used	
P7-15		Operating Instructions(Dutch, Spanish)	ARC7385	Not used	Not used	
P7-16	Δ	AC Power Cord	ADG1154	ADG7018	ADG7018	No. 3
P9-10	Δ	EXTERIOR SECTION Power Transformer	ATS7336	ATS7338	ATS7338	
P9-11	Δ	Fuse (FU1)	REK1023 (T1.25A/250V)	REK1026 (2.5A/250V)	REK1026 (2.5A/250V)	
	Δ	Fuse (FU2, FU3)	Not used	REK1023 (T1.25A/250V)	REK1023 (T1.25A/250V)	
P9-24		Rear Panel	ANC8077	ANC8148	ANC8148	
P9-25		Bonnet Case (BOX)	AZN7900	AZN7900	AZN7920	
P9-40		Front Panel Assy	AXG7157	AXG7162	AXG7181	
P9-49		Label	ARW7171	ARW7197	ARW7198	No. 4
	NSP	Fuse Card	Not used	AAX7277	AAX7277	

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			VSX-C100-S /MYXU	VSX-C100-S /SAXU	VSX-C100-G /SAXU	
	⚠	Voltage Selector	Not used	AKX-507	AKX-507	No. 5
		SD Barrier(PLS)	Not used	AEC7412	AEC7412	No. 6
		Nylon Rivet	Not used	AEC7436	AEC7436	No. 7
		Cord Clamper	Not used	ZCA-BK1	ZCA-BK1	No. 8
		Origin Country Label	Not used	VRW1739	VRW1739	No. 9
		FRONT PANEL SECTION				
P11- 6		Front Panel Assy	AXG7157	AXG7162	AXG7181	
P11- 7	NSP	Function Button	AAD7652	AAD7652	AAD7694	
P11- 9		Name Plate	VAM1129	VAM1129	VAM1112	
P11-12		Volume Knob Assy	AAB7246	AAB7246	AAB7251	
P11-13	NSP	Power Button	AAD7654	AAD7654	AAD7695	
P11-14	NSP	Volume Cap	AAC7041	AAC7041	AAC7045	
P11-22	NSP	Front Panel	AMB7812	AMB7822	AMB7835	
	NSP	Getter Label	Not used	ARW7202	ARW7202	No.10

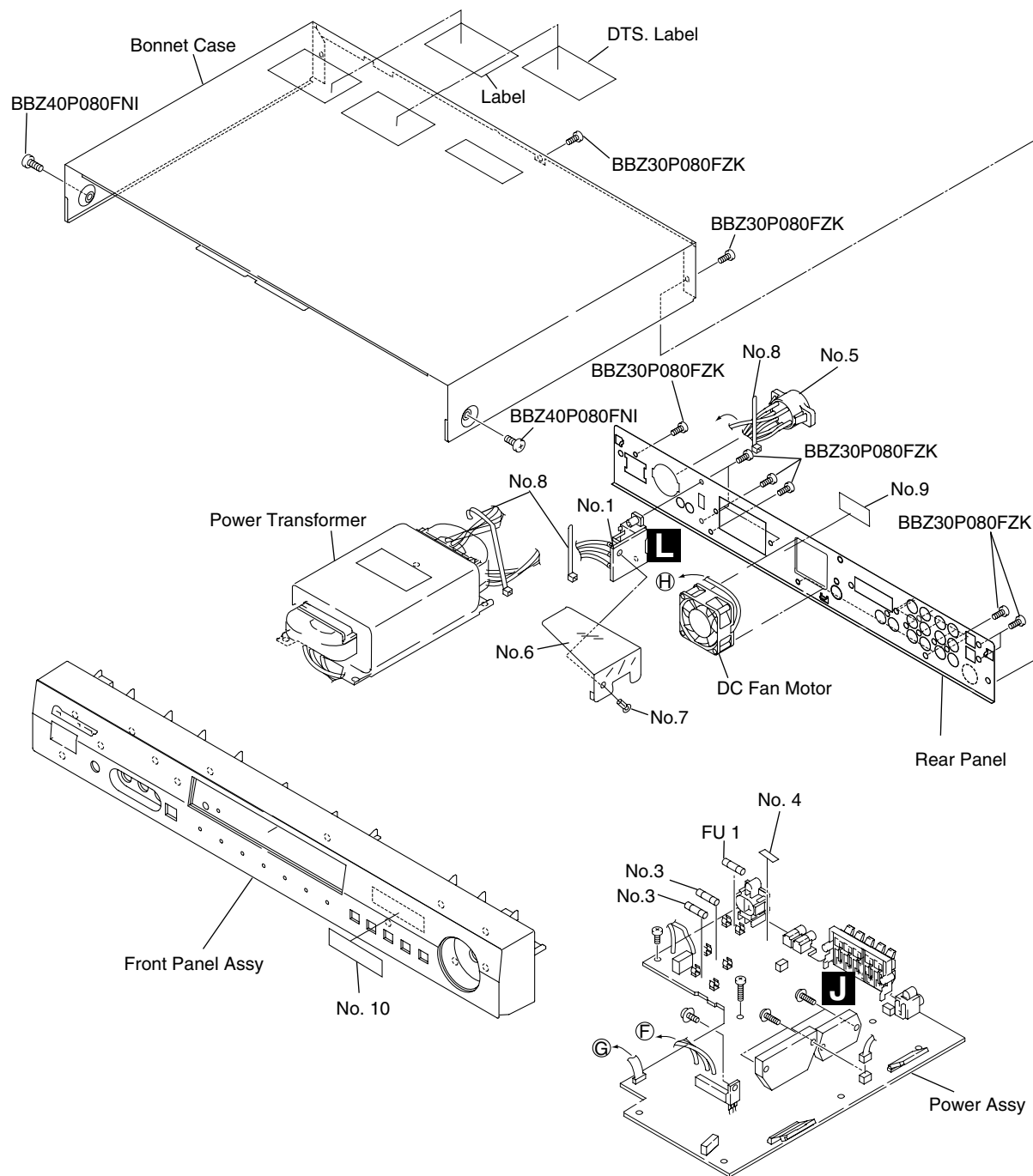
Notes: ● The numbers in the remarks column correspond to the numbers on "EXPLODED VIEWS".
● For ASSEMBLIES, refer to "CONTRAST OF PCB ASSEMBLIES" and "3. SCHEMATIC DIAGRAM".

■ EXPLODED VIEWS

● PACKING SECTION



● EXTERIOR SECTION



■ CONTRAST OF PCB ASSEMBLIES

AF FM/AM TUNER MODULE

AXQ7228 and AXQ7232 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AXQ7232	AXQ7228	
001	FM Front End	AXF7005	AXF7003	
002	MW RF Tuning Block	AXX7072	AXX7071	
D0101		UDZS6.8B	Not used	
D0601		HVU187	Not used	
Q0601		2SC2412K	Not used	
Q0602		DTC124EK	Not used	
R0101		RS1/16S0R0J	Not used	
R0102		Not used	RS1/16S0R0J	
R0103		RS1/10S221J	RS1/10S331J	
R0104		RS1/10S221J	RS1/10S391J	
R0105, R0605		RS1/16S222J	Not used	
R0201		Not used	RS1/16S391J	
R0202		RS1/16S101J	RS1/16S221J	
R0212		RS1/16S512J	RS1/16S392J	
R0216		RS1/16S103J	RS1/16S123J	
R0218		RS1/16S681J	RS1/16S102J	
R0219		RS1/16S681J	RS1/16S102J	
R0222		RS1/16S103J	RS1/16S472J	
R0225		Not used	RS1/16S0R0J	
R0227		RS1/16S183J	RS1/16S103J	
R0601		RS1/16S561J	Not used	
R0243		Not used	RS1/10S0R0J	
R0602, R0604		RS1/16S221J	Not used	
R0603		RS1/16S472J	Not used	
R0606		RS1/16S121J	Not used	
R0607		RS1/16S473J	Not used	
C0101, C0601		Not used	CKSRYB103K50	
C0103, C0104		CKSRYB102K50	Not used	
C0206		CCSRCH120J50	CCSRCH100D50	
C0209		Not used	CKSRYB223K50	
C0210		CEJQ470M16	CEJA470M16	
C0211		CEJQ1R0M50	CEJA1R0M50	
C0215		CKSRYB471K50	CKSRYB681K50	
C0216, C0217		CKSRYB103K50	CKSRYB123K50	
C0244		CKSRYB223K50	Not used	
C0602		Not used	CKSRYB102K50	
C0603		CKSRYB392K50	CKSRYB223K50	
C0604, C0610, C0615		CKSRYB103K50	Not used	
C0605		CCSQCH680J50	Not used	
C0606		CKSRYB561K50	Not used	
C0607, C0608		CKSRYB182K50	Not used	
C0609		CKSRYB102K50	Not used	
C0611		CKSRYB223K50	Not used	
C0614		CCSRCH101J50	Not used	
F0601		ATF7025	Not used	
F0203		ATF7026	ATF1155	
L601 (27μH)		LCTA270J2520	Not used	
L602		LAU2R2J	Not used	
BN0201	Antenna Term.	AKA7002	AKA7003	

B F 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	Not used RS1/16S0R0J RS1/16S152J RS1/16S102J CKSRYB562K50	RS1/16S0R0J Not used RS1/16S332J RS1/16S822J CKSRYB103K50	
	C1703, C1704, C1717, C1718, C1724 C1707, C1708, C1715, C1716, C1725 C1709, C1710, C1721, C1722, C1726	CCSRCH100D50 CKSRYB333K25 CKSRYB104K25	CCSRCH150J50 CKSRYB473K50 CKSRYB223K50	

G F 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	BU1923F 2SA1037K DTC143EK 2SC3326 RS1/16S104J	Not used Not used Not used Not used RS1/16S473J	
	R4238 R4337, R4338 R4681 R4682 R4683	RS1/16S473J Not used RS1/16S473J RS1/16S222J RS1/16S333J	Not used RS1/16S0R0J Not used Not used Not used	
	R4684 R4685- R4687 C4681, C4682 C4683 C4684	RS1/16S104J RS1/16S102J CKSRYB102K50 CEJQ101M10 CEAT1R0M50	Not used Not used Not used Not used Not used	
	C4685 C4686 C4688 C4689, C4690 L4681	CKSRYB472K50 CEJQ2R2M50 CKSRYB561K50 CCSRCH270J50 LFEA2R2J	Not used Not used Not used Not used Not used	
	X4681 Ceramic Reso.(4.3MHz)	ASS7004	Not used	

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.

L VOLTAGE SELECT ASSY(AWX8069)

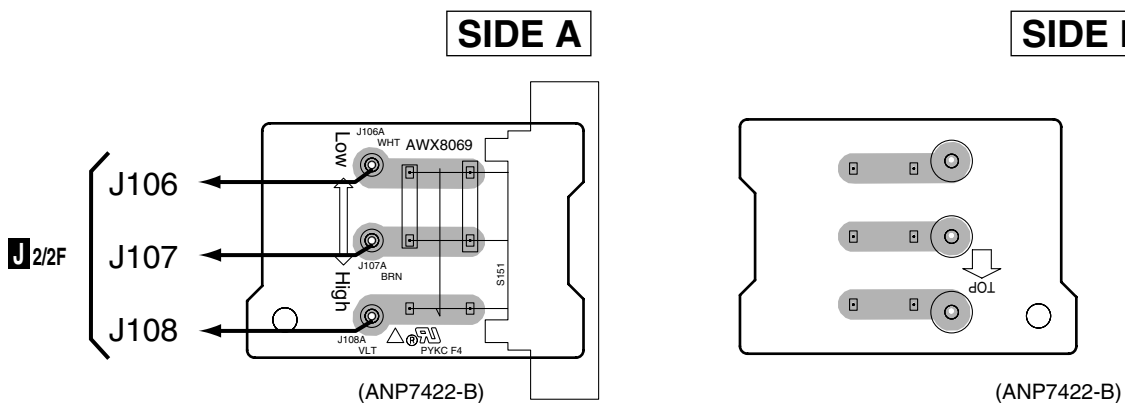
SWITCHES

△ S151 Voltage Selector AKX1033

2. PCB CONNECTION DIAGRAM

2.1 VOLTAGE SEL. ASSY

L VOLTAGE SEL ASSY



Notes

1. RESISTORS

Indicated in Ω , $1/16W \pm 5\%$ Tolerance unless otherwise noted K:K Ω , M:M Ω .

2. CAPACITORS

Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P:PF.

3. DIODES

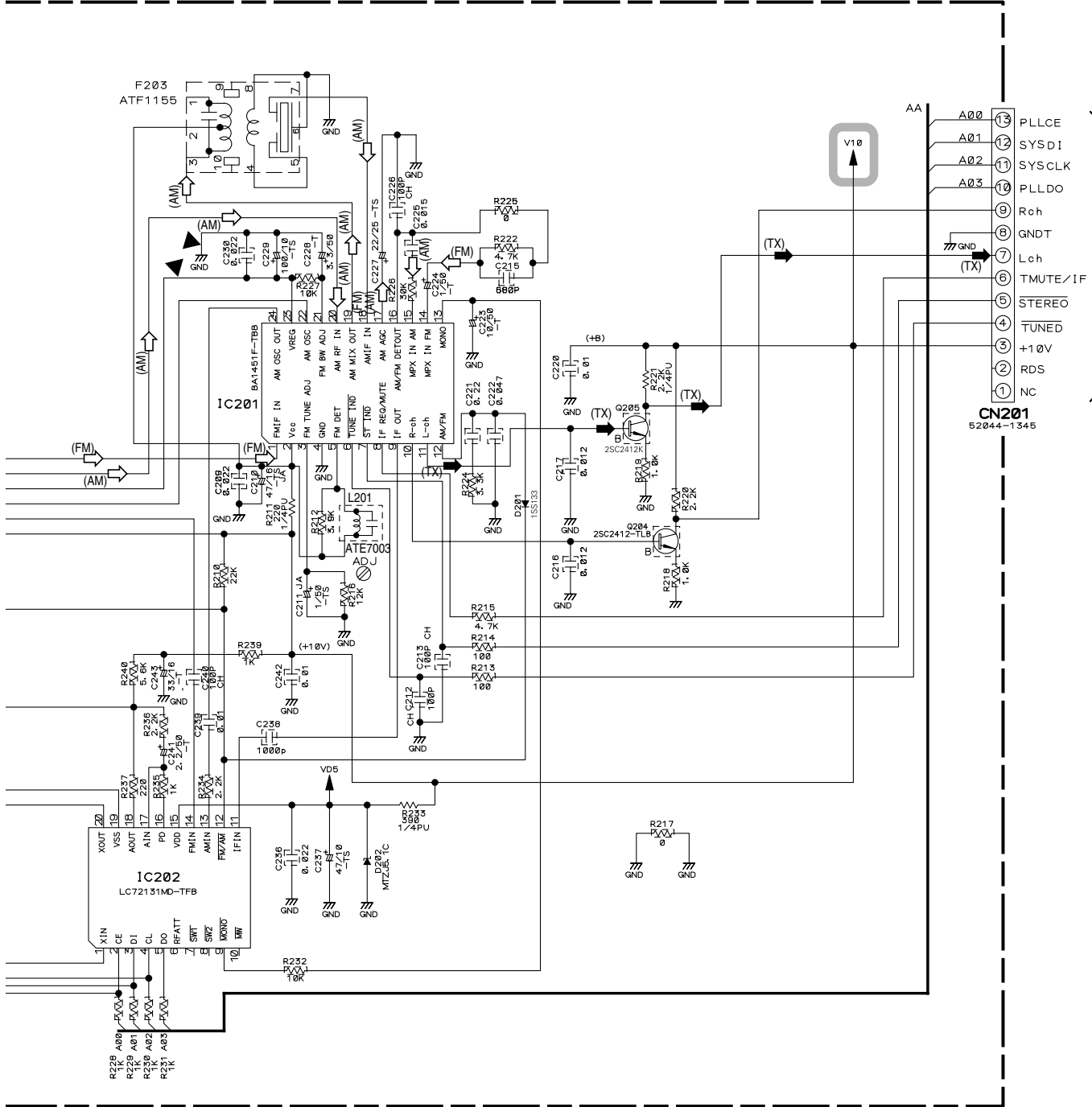
No mark diode is 1SS133.

 : The power supply is shown with the marked box.

(TX)  : AUDIO SIGNAL ROUTE (TUNER)

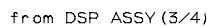
(AM)  : AM SIGNAL ROUTE

(FM)  : FM SIGNAL ROUTE



B 4/4F

VSX-C100-S





3.3 FRONT ASSY

A

B

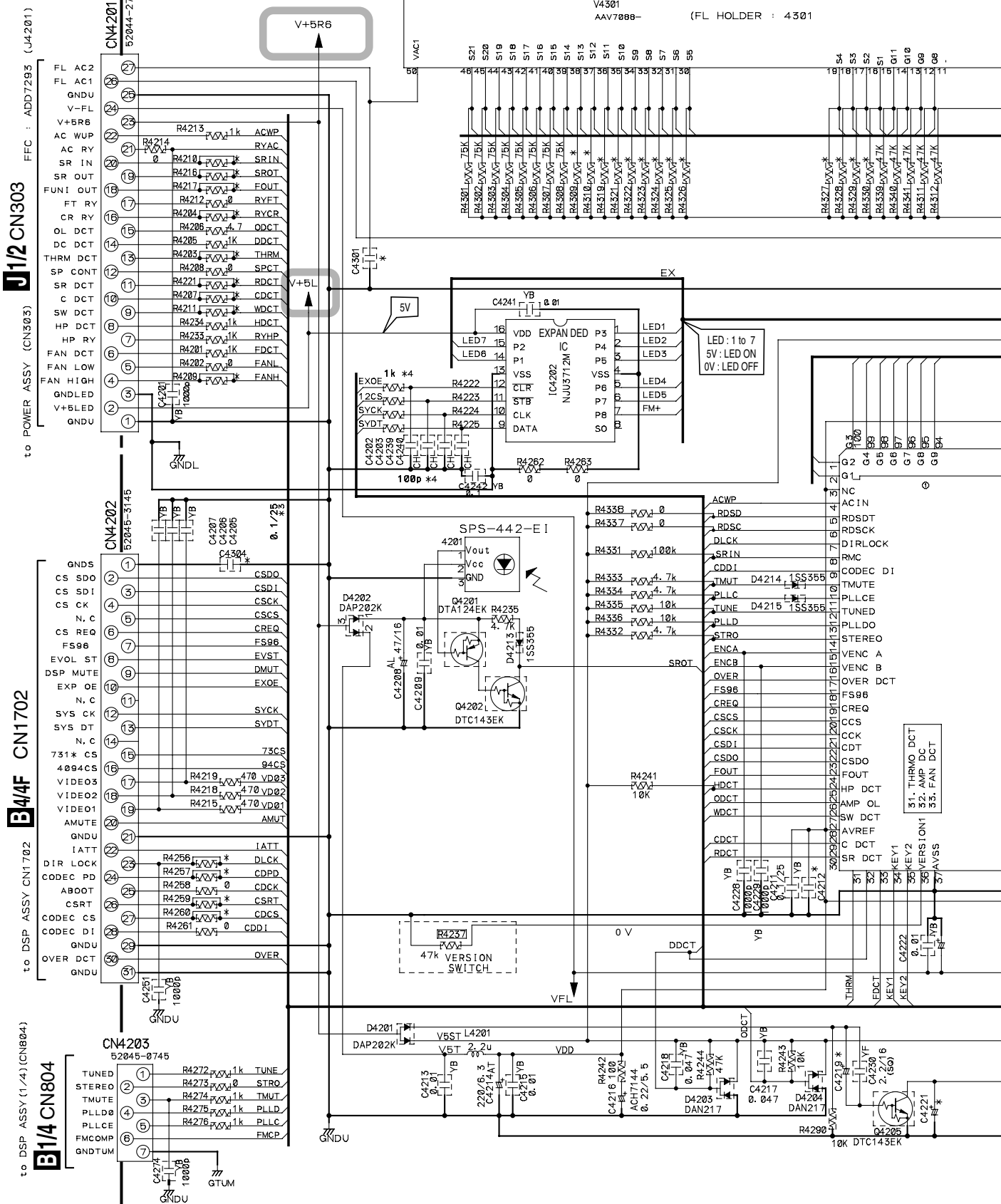
C

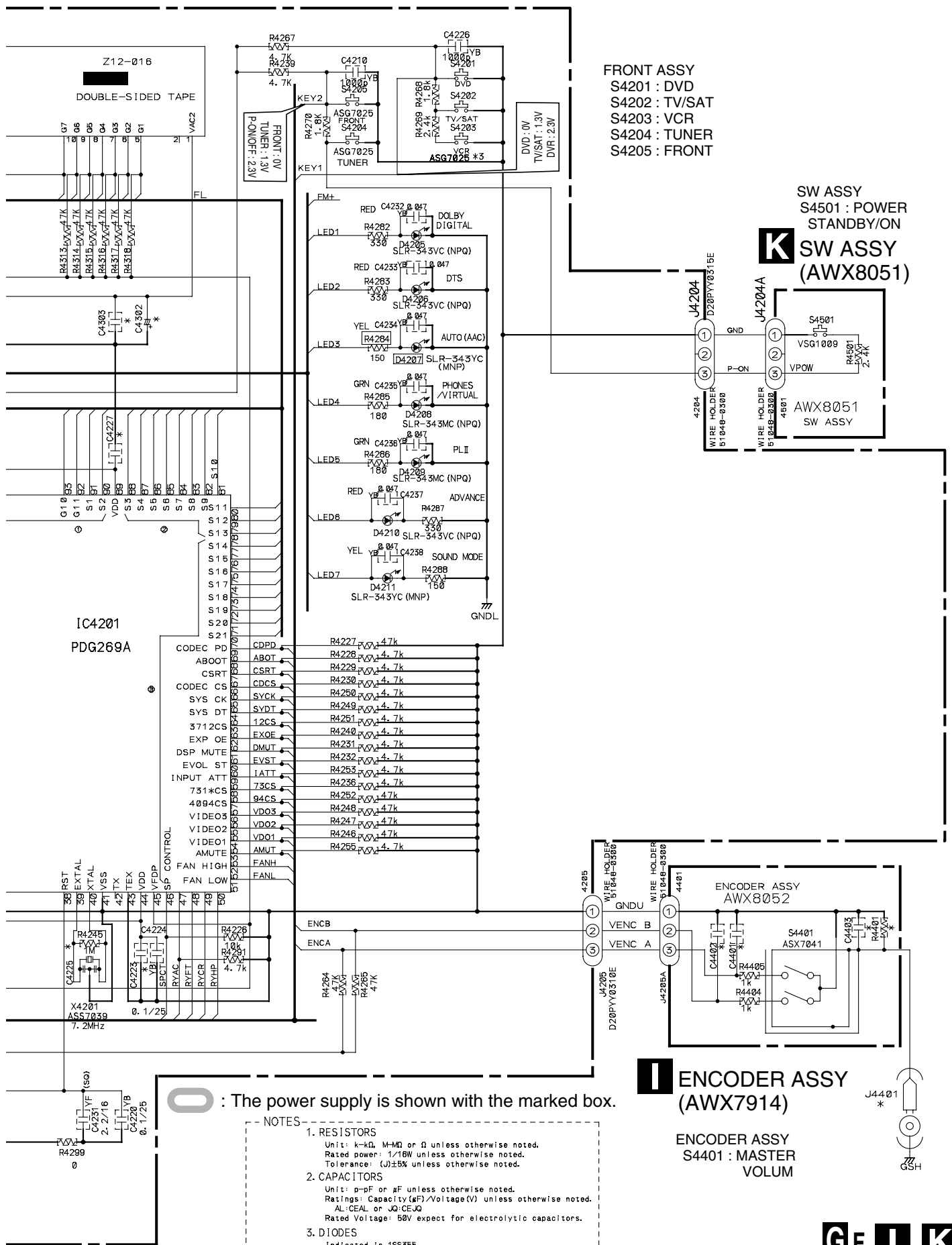
D

E

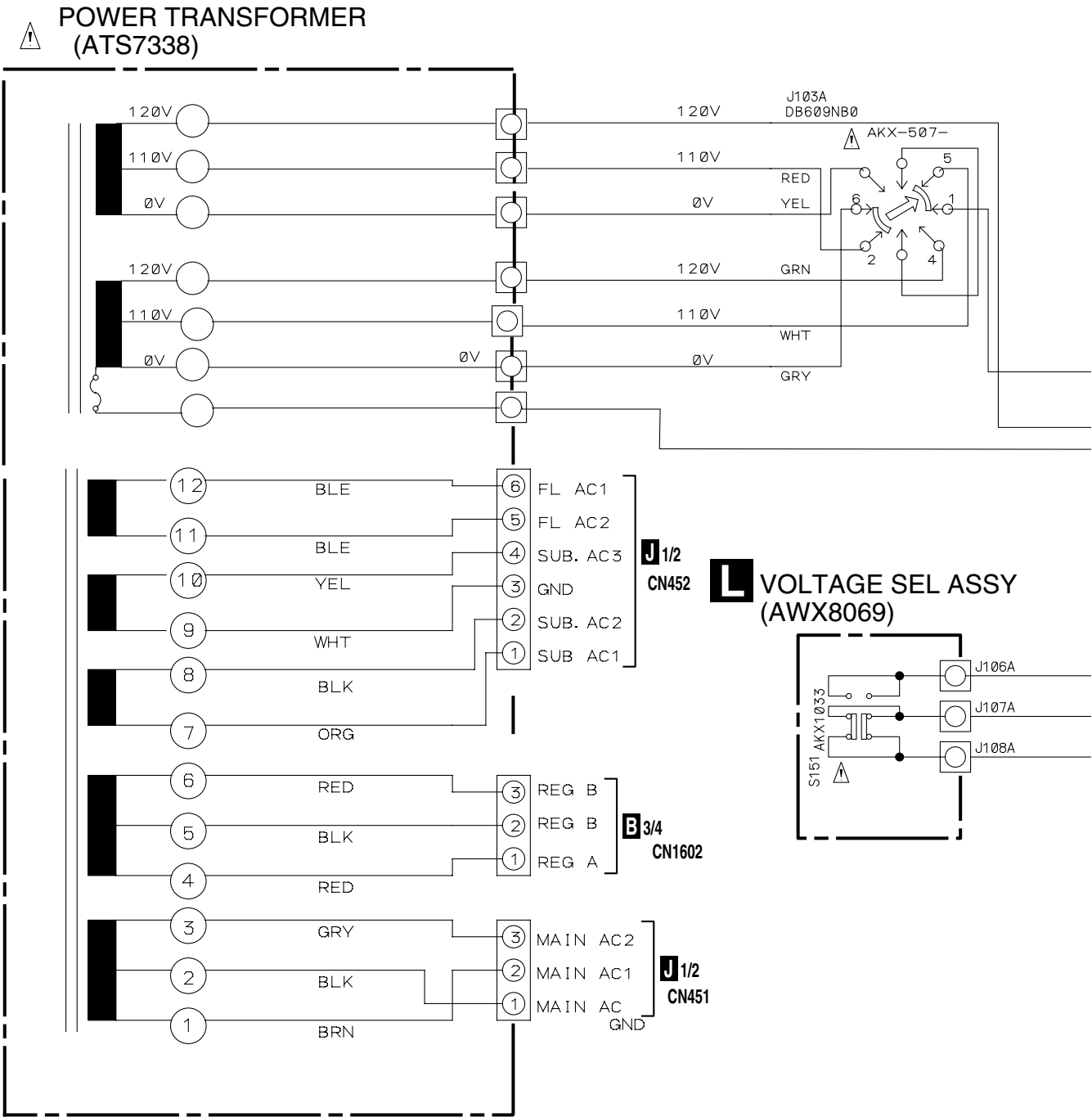
F

FF FRONT ASSY (AWX8072)





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



J 2/2F POWER ASSY (AWX8068)

NOTE

1. RESISTORS

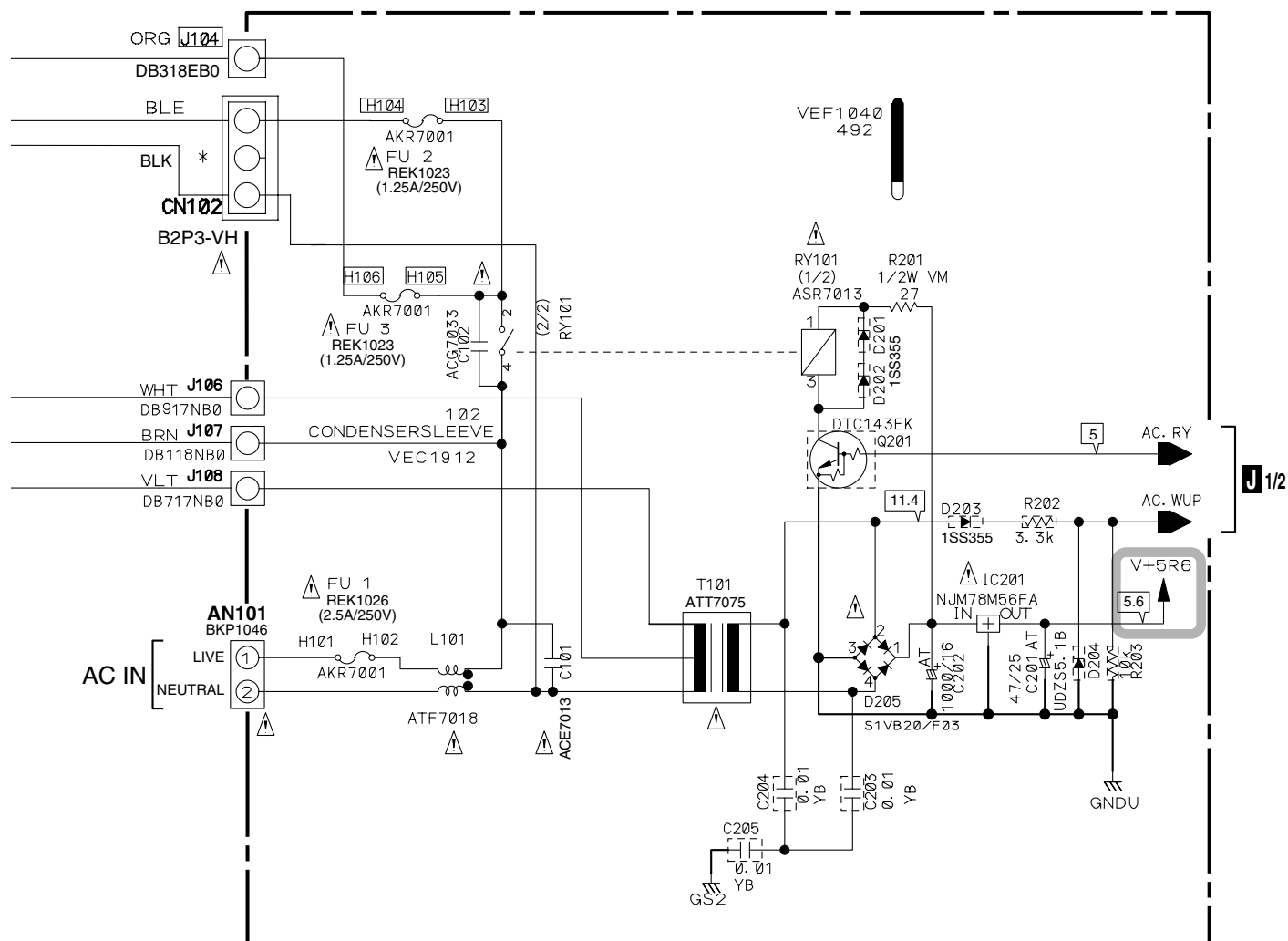
Unit: k- Ω , M- Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) $\pm 5\%$ unless otherwise noted.

2. CAPACITORS

Unit: p-pF or μ F unless otherwise noted.
Ratings: Capacity (μ F)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V except 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.

