

Service Manual

ORDER NO.
RRV3377

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-416-K VSX-416-S

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

Model	Type	Power Requirement	Remarks
VSX-416-K	MYXJ5	AC 220 V to 230 V	
VSX-416-S	MYXJ5	AC 220 V to 230 V	

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

Model No.	Order No.	Remarks
VSX-516-K/KUCXJ	RRV3329	

● 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 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 Ω \rightarrow 56×10^1 \rightarrow 561 RD1/4PU $\begin{matrix} 5 & 6 & 1 \\ \hline & & \end{matrix}$ J
 47k Ω \rightarrow 47×10^3 \rightarrow 473 RD1/4PU $\begin{matrix} 4 & 7 & 3 \\ \hline & & \end{matrix}$ J
 0.5 Ω \rightarrow R50 RN2H $\begin{matrix} R & 5 & 0 \\ \hline & & \end{matrix}$ K
 1 Ω \rightarrow 1R0 RS1P $\begin{matrix} 1 & R & 0 \\ \hline & & \end{matrix}$ K

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

5.62k Ω \rightarrow 562×10^1 \rightarrow 5621 RN1/4PC $\begin{matrix} 5 & 6 & 2 & 1 \\ \hline & & & \end{matrix}$ F

- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

■ CONTRAST TABLE

VSX-416-K/MYXJ5, VSX-416-S/MYXJ5 and VSX-516-K/MYXJ5 are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			VSX-516-K /MYXJ5	VSX-416-K /MYXJ5	VSX-416-S /MYXJ5	
PCB ASSEMBLIES						
P9 - 1		DSP ASSY	AWX8572	AWX8573	AWX8573	*1
P9 - 4		MAIN ASSY	XWK3230	XWK3228	XWK3228	
P9 - 3	NSP	AMP ASSY	XWK3220	XWK3218	XWK3218	
P9 -13		└ POWER PACK ASSY	XWZ4083	XWZ4081	XWZ4081	
		└ TRANS2 ASSY	XWZ4092	XWZ4091	XWZ4091	
P11- 1	NSP	COMPLEX ASSY	XWK3210	XWK3208	XWK3208	
P9 - 7		└ FRONT DISPLAY ASSY	XWZ4052	XWZ4051	XWZ4051	*1
P9 -11		└ VIDEO ASSY	XWZ4060	XWZ4058	XWZ4058	
		└ REGULATOR ASSY	XWZ4116	XWZ4077	XWZ4077	*1
P9 - 5		USB ASSY	AWX8704	Not used	Not used	
P11- 4		USB IN ASSY	XWK3247	Not used	Not used	
PACKING SECTION						
P7 - 3		Microphone	APM7008	Not Used	Not Used	
P7 -10		Remote control	XXD3102	XXD3101	XXD3101	
P7 -14		Packing Case	XHD3589	XHD3591	XHD3592	
EXTERIOR SECTION						
P9 -18	Δ	Transformer	XTS3102	XTS3090	XTS3090	
P9 -27		17P F. F. C/30V	Not used	XDD3203	XDD3203	
P9 -28		25P F. F. C/30V	XDD3201	Not used	Not used	
P9 -31		R Panel	XNC3414	XNC3417	XNC3434	
P9 -33	NSP	H/Sink	XNH3044	XNH3043	XNH3043	
P9 -37		Insulator	PNW2766	AMR7198	AMR7198	
P9 -39		Bonnet	XZN3183	XZN3183	XZN3184	
P9 -41		ICP Label	XAX3121	Not used	Not used	
P9 -46		Screw	BBZ30P080FTB	BBZ30P080FTB	BBZ30P080FNI	
FRONT PANEL SECTION						
P11- 6		JOG Knob	XAB3046	XAB3046	XAB3048	
P11- 7		VOL Knob	XAB3049	XAB3049	XAB3051	
P11- 8		STDBY BTN	XAD3202	XAD3202	XAD3203	
P11- 9		D Panel	XAK3535	XAK3529	XAK3529	
P11-10	NSP	Gold Foil Label	XAX3487	Not used	Not used	
P11-11	NSP	F Panel Assy	XXG3249	XXG3253	XXG3254	
P11-12		Tuner BTN	XAD3230	XAD3230	XAD3248	
P11-13		SUB BTN	XAD3231	XAD3231	XAD3249	
P11-14		FUNC BTN	XAD3232	XAD3232	XAD3250	
P11-15		LISTEN BTN	XAD3233	XAD3233	XAD3251	

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A	D 311	(B,259,93) DIODE	1SS355	R 157	(B,293,114)		RS1/16S0R0J
	D 312	(B,268,93) DIODE	1SS355	R 180	(B,278,97)		RS1/16S0R0J
	D 331	(B,260,87) DIODE	UDZS6R8(B)	R 181	(B,272,78)		RS1/16S0R0J
	D 332	(B,263,87) DIODE	UDZS6R8(B)				
	D 9001	(A,125,103) DIODE	DAP202U	R 182	(B,275,75)		RS1/16S0R0J
				R 183	(B,276,67)		RS1/16S0R0J
	D 9002	(A,119,103) DIODE	DAP202U	R 201	(A,189,85)		RS1/16S473J
	D 9003	(A,122,103) DIODE	DAN202U	R 202	(A,189,90)		RS1/16S473J
	D 9006	(B,99,89) DIODE	DAN217U	R 203	(B,187,85)		RS1/16S392J
	D 9007	(B,91,89) DIODE	DAN217U				
	D 9010	(A,128,88) DIODE	1SS355	R 204	(B,187,91)		RS1/16S392J
				R 205	(B,189,85)		RS1/16S392J
	D 9011	(A,60,75) DIODE	DAN202U	R 206	(B,189,91)		RS1/16S392J
	D 9064	(A,58,75) DIODE	DAP202U	R 207	(B,191,85)		RS1/16S392J
	D 9065	(A,63,80) DIODE	DAP202U	R 208	(B,191,91)		RS1/16S392J
B	D 9068	(A,53,81) DIODE	1SS355				
	L 101	(B,260,98) CHIP SOLID INDUCTOR	QTL1013	R 209	(B,198,85)		RS1/16S392J
				R 210	(B,198,91)		RS1/16S392J
	L 102	(B,265,97) CHIP SOLID INDUCTOR	QTL1013	R 211	(B,200,85)		RS1/16S332J
	L 5002	(A,257,104) CHIP SOLID INDUCTOR	QTL1013	R 212	(B,200,91)		RS1/16S332J
	L 9001	(A,123,107) CHIP SOLID INDUCTOR	ATL7002	R 213	(B,202,85)		RS1/16S680J
	L 9002	(A,121,107) CHIP SOLID INDUCTOR	ATL7002				
	L 9003	(A,106,98) RADIAL INDUCTOR	LFCA2R2J	R 214	(B,202,91)		RS1/16S680J
				R 219	(B,216,84)		RS1/16S0R0J
	X 5001	(A,67,27) CRYSTAL RESONATOR (4.332 MHz)	ASS7004	R 220	(B,215,91)		RS1/16S0R0J
	X 9001	(A,96,53) CERAMIC RESONATOR (15.7 MHz)	XSS3004	R 221	(B,220,84)		RS1/16S472J
				R 222	(B,219,91)		RS1/16S472J
C	CN 101	(A,41,27) CONNECTOR	CKS3382	R 223	(A,242,78)		RS1/16S472J
	CN 103	(A,230,17) 11P CONNECTOR	52044-1145	R 224	(A,236,78)		RS1/16S472J
	CN 104	(A,250,13) CONNECTOR	CKS3384	R 225	(B,225,84)		RS1/16S392J
				R 226	(B,225,91)		RS1/16S392J
	CN 105	(A,266,34) CONNECTOR	CKS3372	R 227	(B,231,84)		RS1/16S101J
	CN 109	(A,230,113) 19P SOCKET	XKP3054				
	CN 111	(A,276,113) 21P SOCKET	XKP3091	R 228	(B,233,89)		RS1/16S101J
	CN 112	(A,91,41) CONNECTOR	CKS3382	R 231	(A,229,72)		RS1/16S104J
	CN 114	(A,189,113) 21P SOCKET	XKP3091	R 233	(A,231,91)		RS1/16S474J
				R 234	(A,231,84)		RS1/16S474J
	CN 117	(A,302,77) PIN JACK(4P)	AKB7114	R 237	(A,237,88)		RS1/16S122J
	CN 118	(A,302,105) PIN JACK(4P)	AKB7114				
	CN 125	(A,302,42) 6P PIN JACK	XKB3055	R 238	(A,236,80)		RS1/16S122J
D	CN 251	(A,39,83) 3P JUMPER CONNECTOR	52147-0310	R 241	(A,190,69)		RS1/16S473J
	CN 252	(A,37,69) 3P TOP POST	B3B-EH	R 242	(A,190,74)		RS1/16S473J
				R 243	(B,186,69)		RS1/16S332J
				R 244	(B,186,75)		RS1/16S332J
RESISTORS							
	R 103	(B,283,62)	RS1/16S222J				
	R 104	(B,283,52)	RS1/16S222J	R 245	(B,188,69)		RS1/16S332J
	R 105	(B,283,47)	RS1/16S331J	R 246	(B,188,75)		RS1/16S332J
	R 106	(B,293,40)	RS1/16S331J	R 247	(B,190,69)		RS1/16S332J
	R 107	(B,283,87)	RS1/16S331J	R 248	(B,190,75)		RS1/16S332J
				R 249	(B,197,69)		RS1/16S332J
	R 108	(B,293,81)	RS1/16S331J				
	R 109	(B,283,73)	RS1/16S331J	R 250	(B,197,75)		RS1/16S332J
	R 110	(B,293,68)	RS1/16S331J	R 251	(B,199,69)		RS1/16S182J
E	R 111	(B,283,115)	RS1/16S222J	R 252	(B,199,75)		RS1/16S182J
	R 112	(B,283,106)	RS1/16S222J	R 253	(B,202,69)		RS1/16S0R0J
				R 254	(B,202,75)		RS1/16S0R0J
	R 113	(B,283,101)	RS1/16S331J				
	R 114	(B,293,96)	RS1/16S331J	R 257	(B,213,69)		RS1/16S101J
	R 129	(B,283,34)	RS1/16S331J	R 258	(B,213,75)		RS1/16S101J
	R 130	(B,283,25)	RS1/16S331J	R 261	(A,189,53)		RS1/16S473J
	R 145	(A,71,73)	RS1/16S102J	R 262	(A,189,59)		RS1/16S473J
				R 263	(B,186,53)		RS1/16S332J
	R 146	(A,71,74)	RS1/16S102J				
	R 147	(B,233,67)	RS1/16S472J	R 264	(B,186,60)		RS1/16S332J
	R 148	(B,228,62)	RS1/16S472J	R 265	(B,188,53)		RS1/16S332J
	R 149	(A,259,45)	RS1/16S104J	R 266	(B,188,60)		RS1/16S682J
F	R 154	(B,294,51)	RS1/16S0R0J	R 267	(B,190,53)		RS1/16S332J
				R 268	(B,190,60)		RS1/16S393J
	R 155	(B,293,58)	RS1/16S0R0J				
	R 156	(B,295,107)	RS1/16S0R0J	R 269	(B,197,53)		RS1/16S332J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
R	270	(B,197,60)	RS1/16S122J	R	494	(A,141,83)	RS1/16S911J
R	271	(B,199,53)	RS1/16S182J	R	495	(A,147,71)	RS1/16S272J
R	272	(B,199,60)	RS1/16S272J	R	496	(A,148,83)	RS1/16S272J
R	273	(B,202,53)	RS1/16S0R0J	R	497	(A,139,69)	RS1/16S153J
				R	498	(A,139,83)	RS1/16S153J
R	274	(B,202,60)	RS1/16S271J				
R	277	(B,214,53)	RS1/16S101J	R	499	(B,133,72)	RS1/16S103J
R	278	(B,213,61)	RS1/16S101J	R	500	(B,133,79)	RS1/16S104J
R	280	(A,65,113)	RS1/16S0R0J	R	502	(B,144,80)	RS1/16S204J
R	303	(B,156,37)	RS1/16S101J	R	5005	(B,80,13)	RS1/16S0R0J
				R	5011	(A,81,15)	RS1/16S473J
R	304	(B,155,43)	RS1/16S101J				
R	305	(B,160,49)	RS1/16S101J	R	5012	(A,82,12)	RS1/16S102J
R	306	(B,164,61)	RS1/16S101J	R	5013	(A,57,26)	RS1/16S102J
R	307	(B,165,68)	RS1/16S101J	R	5016	(B,82,13)	RS1/16S0R0J
R	308	(B,171,72)	RS1/16S101J	R	5020	(A,73,13)	RS1/16S0R0J
				R	9002	(A,129,89)	RS1/16S473J
R	311	(A,258,102) METAL OXIDE RESISTOR	RS1LMF101J				
R	312	(A,266,102) METAL OXIDE RESISTOR	RS1LMF101J	R	9005	(A,91,55)	RS1/16S0R0J
R	431	(A,131,93)	RS1/16S104J	R	9006	(B,103,89)	RS1/16S474J
R	432	(A,127,93)	RS1/16S104J	R	9007	(B,93,89)	RS1/16S474J
R	433	(A,128,93)	RS1/16S104J	R	9008	(A,86,90)	RS1/16S221J
				R	9009	(A,65,85)	RS1/16S473J
R	435	(A,126,93)	RS1/16S104J				
R	436	(A,130,93)	RS1/16S104J	R	9010	(B,115,45)	RS1/16S512J
R	437	(A,89,107)	RS1/16S164J	R	9011	(A,63,76)	RS1/16S102J
R	438	(A,81,98)	RS1/16S104J	R	9012	(A,63,73)	RS1/16S0R0J
R	439	(A,86,96)	RS1/16S104J	R	9013	(B,112,45)	RS1/16S471J
				R	9014	(B,104,54)	RS1/16S471J
R	440	(A,81,108)	RS1/16S754J				
R	441	(A,79,98)	RS1/16S222J	R	9015	(B,101,54)	RS1/16S471J
R	442	(A,77,98)	RS1/16S104J	R	9016	(B,99,54)	RS1/16S471J
R	443	(A,63,104)	RS1/16S471J	R	9017	(B,97,54)	RS1/16S471J
R	445	(A,73,108)	RS1/16S223J	R	9018	(B,95,54)	RS1/16S471J
				R	9019	(B,98,76)	RS1/16S471J
R	446	(A,74,233)	RS1/16S104J				
R	447	(A,88,94)	RS1/16S472J	R	9020	(B,99,76)	RS1/16S471J
R	448	(A,89,104)	RS1/16S104J	R	9021	(B,101,76)	RS1/16S471J
R	449	(A,80,108)	RS1/16S102J	R	9022	(B,103,76)	RS1/16S471J
R	453	(A,146,35)	RS1/16S102J	R	9024	(B,105,68)	RS1/16S472J
				R	9025	(B,101,68)	RS1/16S0R0J
R	454	(A,142,46)	RS1/16S102J				
R	455	(A,146,38)	RS1/16S272J	R	9026	(B,107,68)	RS1/16S332J
R	456	(A,147,43)	RS1/16S272J	R	9028	(B,119,45)	RS1/16S104J
R	457	(A,140,35)	RS1/16S153J	R	9030	(A,68,79)	RS1/16S470J
R	458	(A,140,46)	RS1/16S153J	R	9031	(B,69,48)	RS1/16S104J
				R	9032	(A,66,59)	RS1/16S104J
R	459	(B,133,38)	RS1/16S103J				
R	460	(B,133,43)	RS1/16S103J	R	9033	(B,89,48)	RS1/16S104J
R	461	(B,145,39)	RS1/16S104J	R	9036	(A,88,89)	RS1/16S221J
R	462	(B,145,43)	RS1/16S104J	R	9037	(A,124,99)	RS1/16S104J
R	464	(A,78,102)	RS1/16S0R0J	R	9039	(A,87,58)	RS1/16S104J
				R	9041	(B,117,45)	RS1/16S104J
R	473	(A,151,53)	RS1/16S102J				
R	474	(A,152,65)	RS1/16S102J	R	9042	(B,83,81)	RS1/16S103J
R	475	(A,157,52)	RS1/16S272J	R	9043	(B,81,81)	RS1/16S103J
R	476	(A,158,66)	RS1/16S272J	R	9044	(B,79,81)	RS1/16S103J
R	477	(A,149,52)	RS1/16S153J	R	9045	(A,98,46)	RS1/16S471J
				R	9046	(A,107,45)	RS1/16S471J
R	478	(A,150,65)	RS1/16S153J				
R	479	(B,142,57)	RS1/16S103J	R	9047	(A,99,46)	RS1/16S103J
R	480	(B,142,62)	RS1/16S103J	R	9048	(A,98,43)	RS1/16S103J
R	481	(B,154,58)	RS1/16S104J	R	9060	(B,98,68)	RS1/16S473J
R	482	(B,154,62)	RS1/16S104J	R	9062	(B,87,48)	RS1/16S471J
				R	9064	(A,54,74)	RS1/16S103J
R	483	(B,144,76)	RS1/16S104J				
R	484	(A,165,71)	RS1/16S104J	R	9065	(A,56,74)	RS1/16S103J
R	485	(A,157,80)	RS1/16S472J	R	9066	(A,62,72)	RS1/16S103J
R	488	(A,165,73)	RS1/16S0R0J	R	9067	(A,57,83)	RS1/16S103J
R	493	(A,141,71)	RS1/16S102J	R	9081	(A,120,72)	RS1/16S221J
				R	9082	(A,122,69)	RS1/16S274J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
CAPACITORS				C	188	(A,284,83)	CCSRCH101J50
A	C	103 (B,295,56)	CCSRCH101J50	C	189	(A,284,71)	CCSRCH101J50
	C	104 (B,296,51)	CCSRCH101J50	C	190	(B,287,70)	CCSRCH101J50
	C	105 (B,293,45)	CCSRCH101J50	C	191	(B,283,97)	CCSRCH101J50
	C	106 (B,296,40)	CCSRCH101J50	C	192	(B,285,96)	CCSRCH101J50
	C	107 (B,293,86)	CCSRCH101J50	C	197	(B,292,29)	CCSRCH101J50
	C	108 (B,296,81)	CCSRCH101J50	C	198	(B,294,25)	CCSRCH101J50
	C	109 (B,293,72)	CCSRCH101J50	C	199	(A,281,50)	CKSRYPB103K50
	C	110 (B,296,68)	CCSRCH101J50	C	201	(A,183,85)	CEAT2R2M50
	C	111 (B,296,111)	CCSRCH101J50	C	202	(A,184,92)	CEAT2R2M50
	C	112 (B,297,107)	CCSRCH101J50	C	203	(A,191,85)	CCSRCH471J50
	C	113 (B,293,100)	CCSRCH101J50	C	204	(A,191,90)	CCSRCH471J50
B	C	114 (B,296,96)	CCSRCH101J50	C	205	(A,193,85)	CCSRCH331J50
	C	115 (B,262,98)	CKSRYPB103K50	C	206	(A,194,90)	CCSRCH331J50
	C	116 (B,267,97)	CKSRYPB103K50	C	207	(B,193,85)	CCSRCH331J50
	C	117 (A,287,109)	CCSRCH220J50	C	208	(B,193,91)	CCSRCH331J50
	C	118 (B,285,109)	CCSRCH220J50	C	213	(A,223,84)	CEAT100M50
	C	121 (A,280,34)	CEAT100M50	C	214	(A,223,90)	CEAT100M50
	C	122 (A,280,25)	CEAT100M50	C	215	(B,233,84)	CKSRYPB103K50
	C	125 (A,280,62)	CEAT100M50	C	216	(B,231,89)	CKSRYPB103K50
	C	126 (A,280,53)	CEAT100M50	C	217	(A,202,85)	CKSRYPB103K50
	C	127 (A,280,47)	CEAT100M50	C	218	(A,202,90)	CKSRYPB103K50
	C	128 (A,280,40)	CEAT100M50	C	219	(A,221,87)	CKSRYPB104K16
C	C	131 (A,280,87)	CEAT100M50	C	220	(A,210,93)	CKSRYPB104K16
	C	132 (A,280,80)	CEAT100M50	C	221	(A,230,75)	CKSRYPB103K50
	C	133 (A,280,74)	CEAT100M50	C	222	(A,243,70)	CKSRYPB103K50
	C	134 (A,280,67)	CEAT100M50	C	241	(A,183,70)	CEAT2R2M50
	C	135 (A,280,114)	CEAT100M50	C	242	(A,183,77)	CEAT2R2M50
	C	136 (A,280,106)	CEAT100M50	C	243	(A,192,69)	CCSRCH101J50
	C	137 (A,280,101)	CEAT100M50	C	244	(A,192,74)	CCSRCH101J50
	C	138 (A,280,93)	CEAT100M50	C	245	(A,194,69)	CCSRCH331J50
	C	141 (A,256,82)	CKSRYPB104K50	C	246	(A,194,74)	CCSRCH331J50
	C	145 (B,256,81)	CCSRCH101J50	C	247	(B,193,69)	CCSRCH331J50
	C	146 (B,258,81)	CCSRCH101J50	C	248	(B,193,75)	CCSRCH331J50
	C	147 (B,253,81)	CKSRYPB103K50	C	249	(A,205,69)	CEAT100M50
D	C	148 (B,238,67)	CKSRYPB223K50	C	250	(A,205,75)	CEAT100M50
	C	149 (B,235,67)	CKSRYPB473K25	C	251	(A,204,65)	CKSRYPB103K50
	C	150 (B,231,67)	CKSQYB154K16	C	252	(A,211,78)	CKSRYPB103K50
	C	151 (B,49,51)	CKSRYPB103K50	C	253	(B,43,89)	CKSRYPB103K50
	C	152 (B,230,62)	CKSRYPB223K50	C	254	(A,58,108)	ELECT. CAPACITOR
	C	153 (B,234,62)	CKSRYPB473K25	C	255	(A,51,108)	ELECT. CAPACITOR
	C	154 (B,232,62)	CKSQYB154K16	C	256	(A,81,105)	CKSRYPB103K50
	C	155 (A,226,62)	CEAT101M16	C	257	(B,216,69)	CKSRYPB472K50
	C	156 (A,229,56)	CEAT101M16	C	258	(B,217,75)	CKSRYPB472K50
	C	157 (A,236,56)	CEAT101M16	C	261	(A,183,54)	CEAT2R2M50
	C	158 (A,232,50)	CEAT101M16	C	262	(A,183,62)	CEAT2R2M50
E	C	159 (A,241,50)	CEAT101M16	C	263	(A,192,53)	CCSRCH101J50
	C	160 (A,234,44)	CEAT101M16	C	264	(A,191,59)	CKSRYPB223K50
	C	161 (A,241,44)	CEAT101M16	C	265	(A,194,53)	CCSRCH331J50
	C	162 (A,248,44)	CEAT101M16	C	266	(A,194,59)	CKSRYPB103K50
	C	165 (A,240,86)	CEAT1R0M50	C	267	(B,193,53)	CCSRCH331J50
	C	166 (A,248,86)	CEAT1R0M50	C	268	(B,193,60)	CKSRYPB562K50
	C	179 (B,294,76)	CKSRYPB103K50	C	269	(A,205,54)	CEAT100M50
	C	180 (A,277,16)	CKSRYPB103K50	C	270	(A,205,60)	CEAT100M50
	C	181 (A,283,30)	CCSRCH101J50	C	271	(A,203,51)	CKSRYPB103K50
	C	182 (B,285,28)	CCSRCH101J50	C	272	(A,210,64)	CKSRYPB103K50
F	C	185 (A,286,44)	CCSRCH101J50	C	277	(B,216,53)	CKSRYPB472K50
	C	186 (B,288,42)	CCSRCH101J50	C	278	(B,215,61)	CKSRYPB472K50
	C	187 (A,286,90)	CCSRCH101J50	C	321	(A,153,38)	CEAT100M50

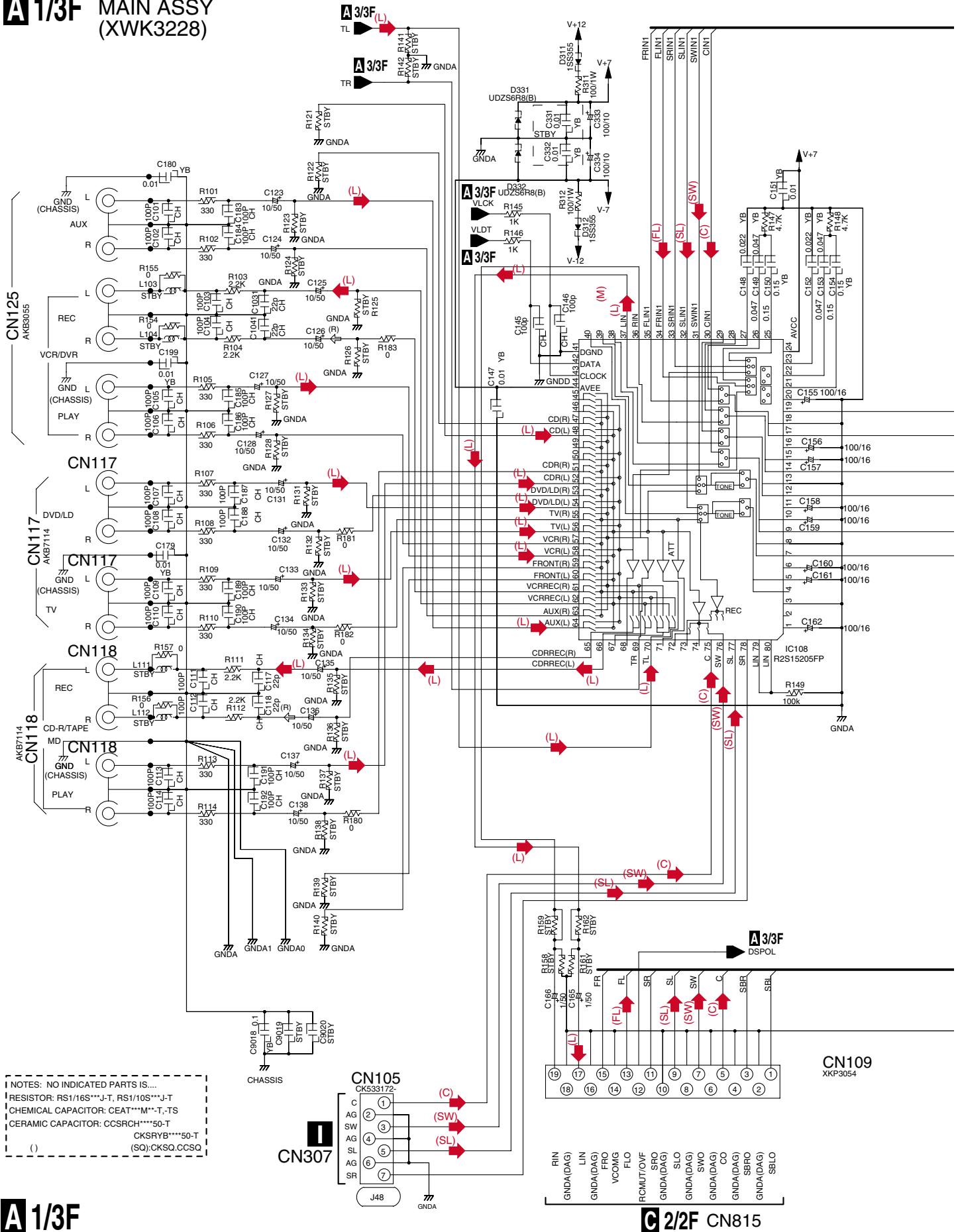
Mark	No.	Description	Part No.
C	322	(A,153,45)	CEAT100M50
C	323	(A,145,35)	CCSRCH101J50
C	324	(A,140,47)	CCSRCH101J50
C	325	(A,136,39) ELECT. CAPACITOR	CEAT220M50
C	326	(A,136,46) ELECT. CAPACITOR	CEAT220M50
C	327	(A,132,42)	CKSRYPB103K50
C	328	(A,132,38)	CKSRYPB103K50
C	333	(A,255,93)	CEAT101M10
C	334	(A,268,81)	CEAT101M10
C	341	(A,161,56)	CEAT100M50
C	342	(A,161,63)	CEAT100M50
C	343	(A,149,51)	CCSRCH101J50
C	344	(A,150,66)	CCSRCH101J50
C	345	(A,145,56) ELECT. CAPACITOR	CEAT220M50
C	346	(A,145,63) ELECT. CAPACITOR	CEAT220M50
C	347	(A,140,64)	CKSRYPB103K50
C	348	(A,141,58)	CKSRYPB103K50
C	361	(A,161,70)	CEAT100M50
C	362	(A,169,70)	CEAT100M50
C	363	(A,139,68)	CCSRCH101J50
C	364	(A,139,84)	CKSRYPB472K50
C	365	(A,136,73) ELECT. CAPACITOR	CEAT220M50
C	366	(A,136,80) ELECT. CAPACITOR	CEANP4R7M50
C	367	(A,135,88)	CKSRYPB103K50
C	368	(A,147,75)	CKSRYPB103K50
C	370	(A,161,74)	CEAT4R7M50
C	392	(B,91,95)	CKSRYPB102K50
C	1031	(A,286,57)	CCSRCH220J50
C	1041	(B,287,55)	CCSRCH220J50
C	5001	(B,233,10)	CKSRYPB102K50
C	5002	(B,235,10)	CKSRYPB103K50
C	5003	(B,237,10)	CKSRYPB105K10
C	5011	(A,77,16)	CEJQ100M50
C	5013	(A,54,17)	CCSRCH270J50
C	5014	(A,54,18)	CCSRCH270J50
C	5015	(A,59,20)	CEJQ470M16
C	5016	(A,54,15)	CKSRYPB103K50
C	5017	(A,73,14)	CCSRCH561J50
C	5020	(A,69,13)	CKSRYPB472K50
C	5025	(A,166,12)	CKSRYPB102K50
C	5026	(A,169,13)	CKSRYPB102K50
C	5027	(A,177,12)	CKSRYPB102K50
C	5028	(A,179,13)	CCSRCH220J50
C	9004	(A,121,94)	CKSRYPB103K50
C	9005	(A,116,99)	CEJQ2R2M50
C	9006	(A,122,88)	CKSRYPB105K10
C	9007	(A,79,92) ELECT. CAPACITOR	CEAT331M6R3
C	9008	(B,77,90)	CKSRYPB103K50
C	9011	(B,95,89)	CKSRYPB473K25
C	9014	(B,87,88)	CKSRYPB473K25
C	9015	(A,100,95)	CKSRYPB102K50
C	9018	(B,72,72)	CKSRYPB104K50
C	9081	(A,120,69)	CKSRYPB103K50

Mark	No.	Description	Part No.
CF POWER PACK ASSY			
MISCELLANEOUS			
△IC	601	(A,265,14) POWER PACK 2CH	STK412-230C
△IC	603	(A,132,14) POWER PACK 3CH	STK413-230C
△IC	610	(A,59,28) PROTECTOR(1A)	AEK7009
△IC	701	(A,100,75) IC PROTECTOR	ICP-N10
△IC	702	(A,84,81) IC PROTECTOR	ICP-N10
△IC	803	(A,238,87) IC	TA7805S
△IC	804	(A,282,111) REGULATOR IC	TA7809S
△IC	805	(B,271,135) IC	BA178M05FP
Q	501	(B,85,42) CHIP TRANSISTOR	2SD2704K
Q	505	(A,111,47) TRANSISTOR	2SC2240
Q	601	(B,93,47) CHIP TRANSISTOR	2SD2704K
Q	602	(B,227,45) CHIP TRANSISTOR	2SD2704K
Q	605	(A,118,40) TRANSISTOR	2SC2240
Q	606	(A,252,40) TRANSISTOR	2SC2240
Q	652	(B,219,42) CHIP TRANSISTOR	2SD2704K
Q	656	(A,244,47) TRANSISTOR	2SC2240
Q	681	(B,72,63) CHIP TRANSISTOR	2SD2704K
Q	683	(A,59,65) TRANSISTOR	2SC2240
Q	696	(B,284,22) TRANSISTOR	2SC4081
Q	697	(B,282,26) TRANSISTOR	2SC4081
Q	698	(B,246,67) TRANSISTOR	RT1N241M
△Q	701	(A,110,75) TRANSISTOR	2SC5511
△Q	702	(A,96,86) TRANSISTOR	2SA2005
Q	703	(A,155,76) TRANSISTOR	2SA1145
Q	704	(A,166,79) TRANSISTOR	2SC2240
Q	705	(B,245,74) CHIP TRANSISTOR	RN4903
Q	707	(B,241,74) CHIP TRANSISTOR	RN4903
Q	721	(A,142,71) TRANSISTOR	2SA1145
Q	722	(A,161,74) TRANSISTOR	2SC2240
Q	801	(B,277,141) DIGITAL TR(SC-70)	RT1P241M
Q	802	(B,274,145) TRANSISTOR	RT1N241M
Q	803	(B,265,140) DIGITAL TR(SC-70)	RT1P241M
Q	804	(B,268,145) TRANSISTOR	RT1N241M
Q	805	(B,277,146) DIGITAL TR(SC-70)	RT1P241M
Q	806	(B,271,145) TRANSISTOR	RT1N241M
Q	807	(B,276,53) CHIP TR(2*PNP)	RN2903
Q	808	(B,283,56) CHIP TRANSISTOR	RN1903
Q	809	(A,266,101) TRANSISTOR	2SD1858X
D	601	(A,125,57) DIODE	1SS133
D	602	(A,267,17) ZENER DIODE	MTZJ15A
D	603	(A,119,57) DIODE	1SS133
D	604	(A,261,21) ZENER DIODE	MTZJ15A
D	606	(A,259,57) DIODE	1SS133
D	608	(A,253,52) DIODE	1SS133
D	652	(A,262,57) DIODE	1SS133
D	654	(A,242,52) DIODE	1SS133
D	681	(A,132,17) ZENER DIODE	MTZJ15A
D	682	(A,129,22) ZENER DIODE	MTZJ15A
D	683	(A,135,58) DIODE	1SS133
D	684	(A,65,72) DIODE	1SS133
△D	701	(A,9,88) DIODE	D5SBA20(B)
△D	702	(A,9,126) DIODE	D5SBA20(B)
D	703	(B,252,76) DIODE	1SS355
D	711	(A,196,103) ZENER DIODE	MTZJ22D
D	712	(A,192,103) DIODE	MTZJ6R8(B)

2. SCHEMATIC DIAGRAM

2.1 MAIN ASSY (1/3)

A 1/3F MAIN ASSY (XWK3228)

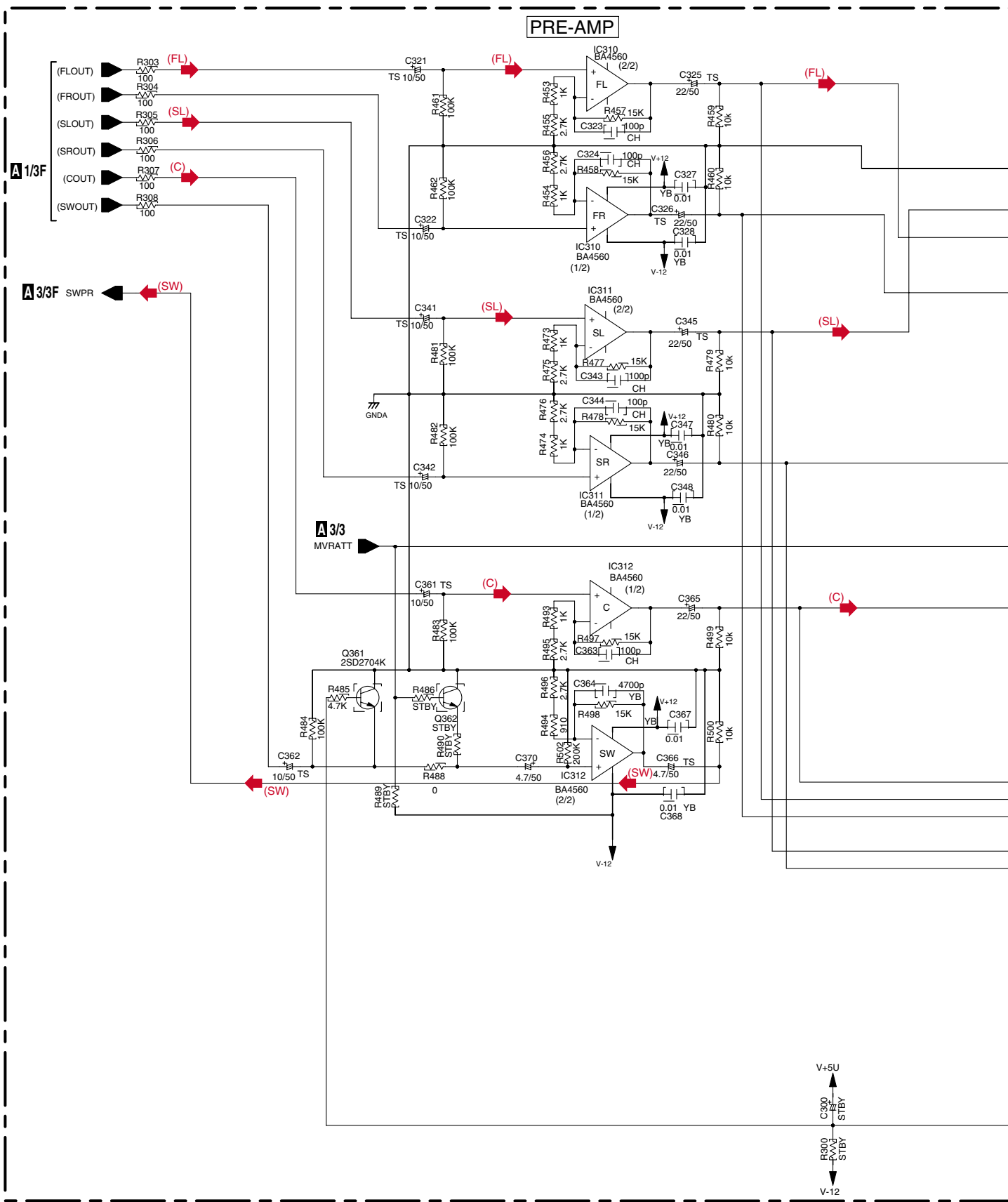


A 1/3F

C 2/2F CN815

2.2 MAIN ASSY (2/3)

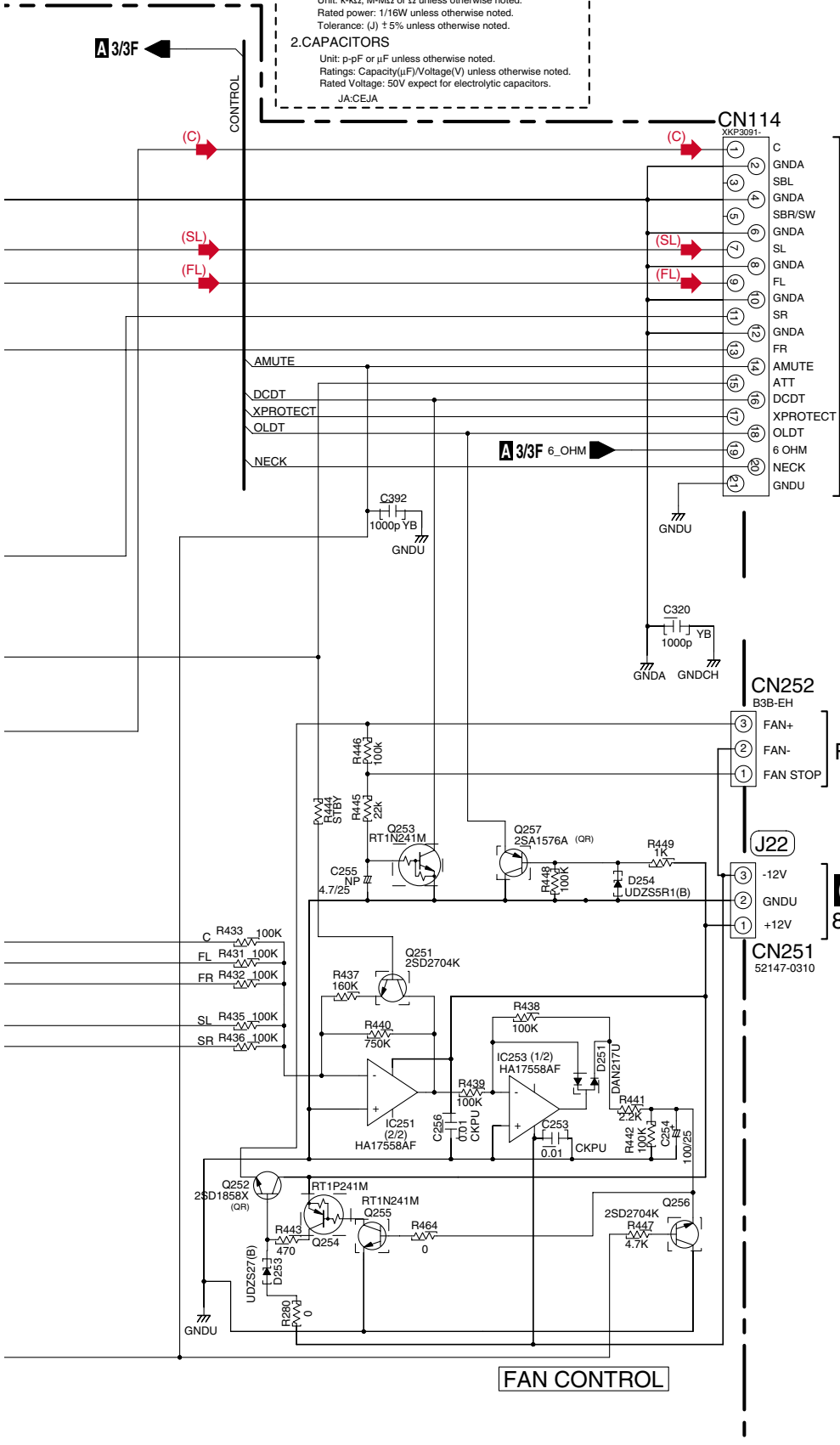
A 2/3F MAIN ASSY (XWK3228)



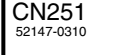
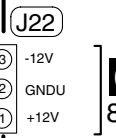
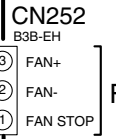
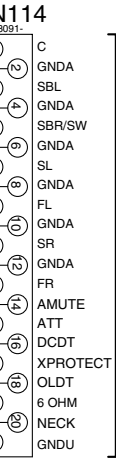
A 2/3F

- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center ch)
- (SW) : Audio Signal Route (SubWoofer ch)

NOTE
1.RESISTORS
 Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated power: 1/16W unless otherwise noted.
 Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
 Unit: p-pF or μF unless otherwise noted.
 Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
 Rated Voltage: 50V expect for electrolytic capacitors.
 JA:CEJA



C 1/2F
CN705

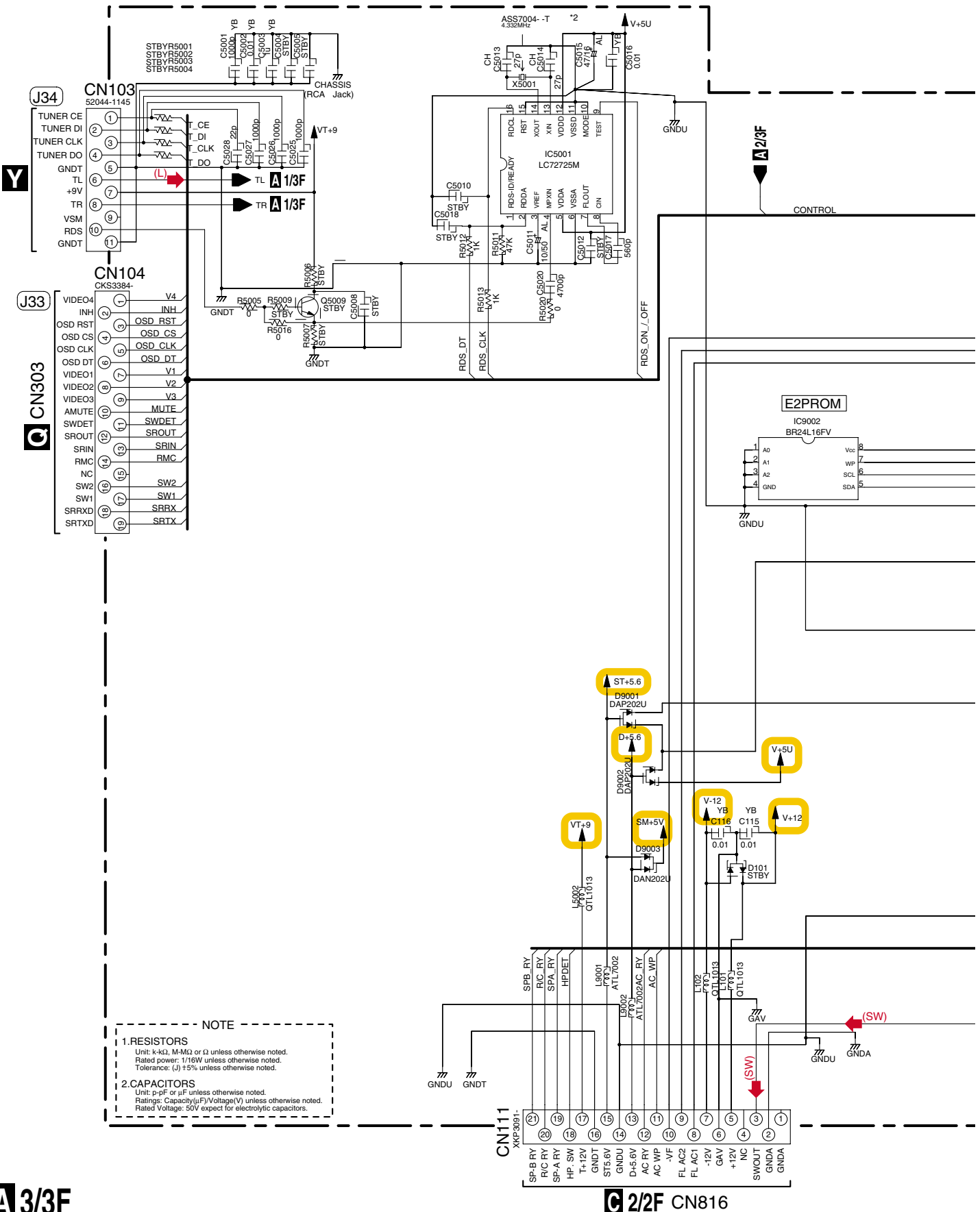


FAN CONTROL

A 2/3F

2.3 MAIN ASSY (3/3)

A 3/3F MAIN ASSY (XWK3228)



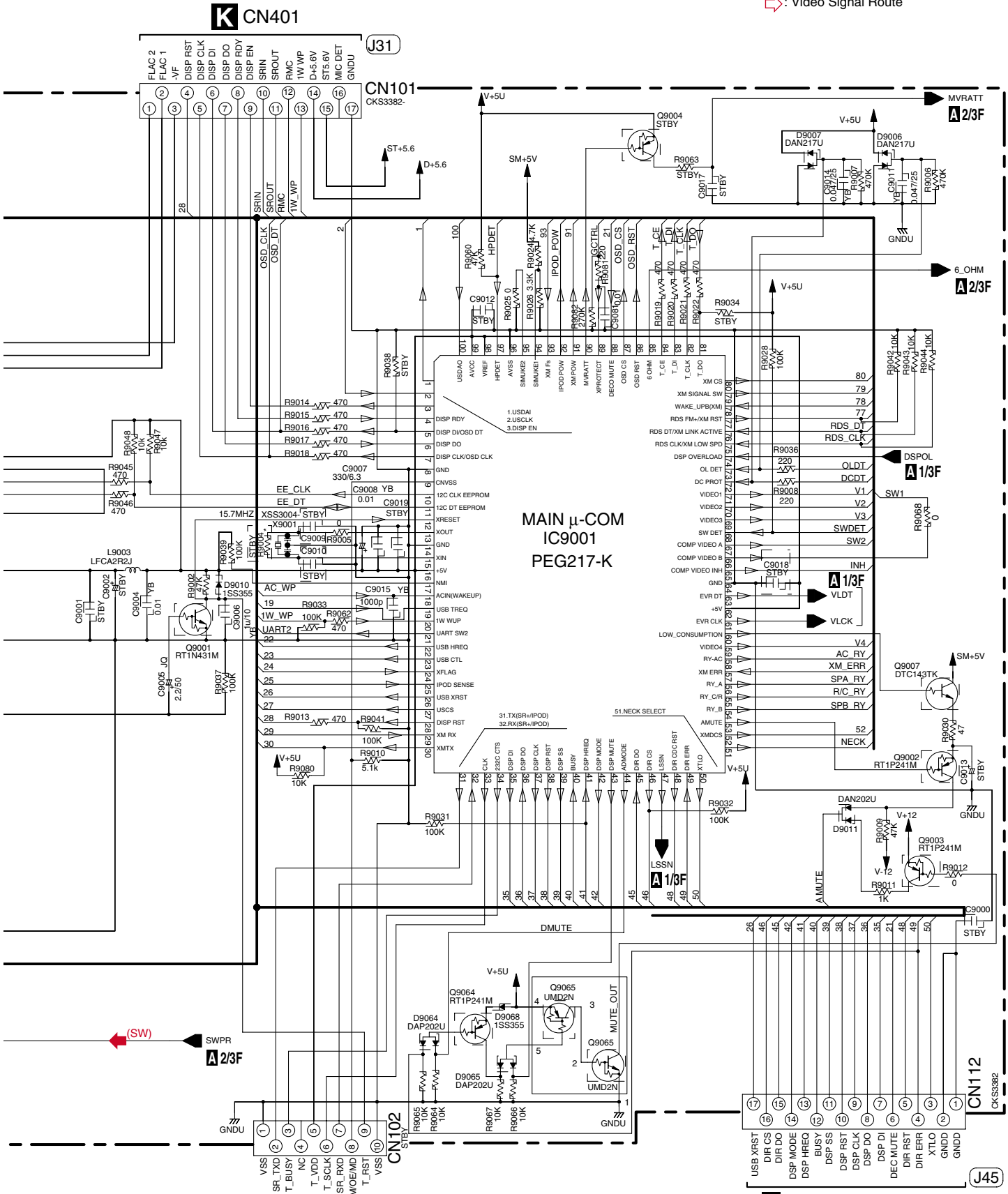
NOTE

- RESISTORS**
Unit: k-Ω, M-Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
- CAPACITORS**
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

A 3/3F

C 2/2F CN816

- (L) : Audio Signal Route (L ch)
- (SW) : Audio Signal Route (SubWoofer ch)
- (S) : Video Signal Route



K CN401

J31

CN101
CKS3382

MAIN μ -COM
IC9001
PEG217-K

MVRATT
A 2/3F

6 OHM
A 2/3F

DSPOL
A 1/3F

VLDT
A 1/3F

VLCK
A 1/3F

RTIP241M
A 1/3F

RTIP241M
A 1/3F

RTIP241M
A 1/3F

RTIP241M
A 1/3F

CN112
CKS3382

J45

G 2/2F CN817

A 3/3F

FLASH U-COM

VSX-416-K

2.4 POWER PACK (1/2), TRANS2 and TRANS3 ASSYS

C 1/2F POWER PACK ASSY (XWZ4081)

A

B

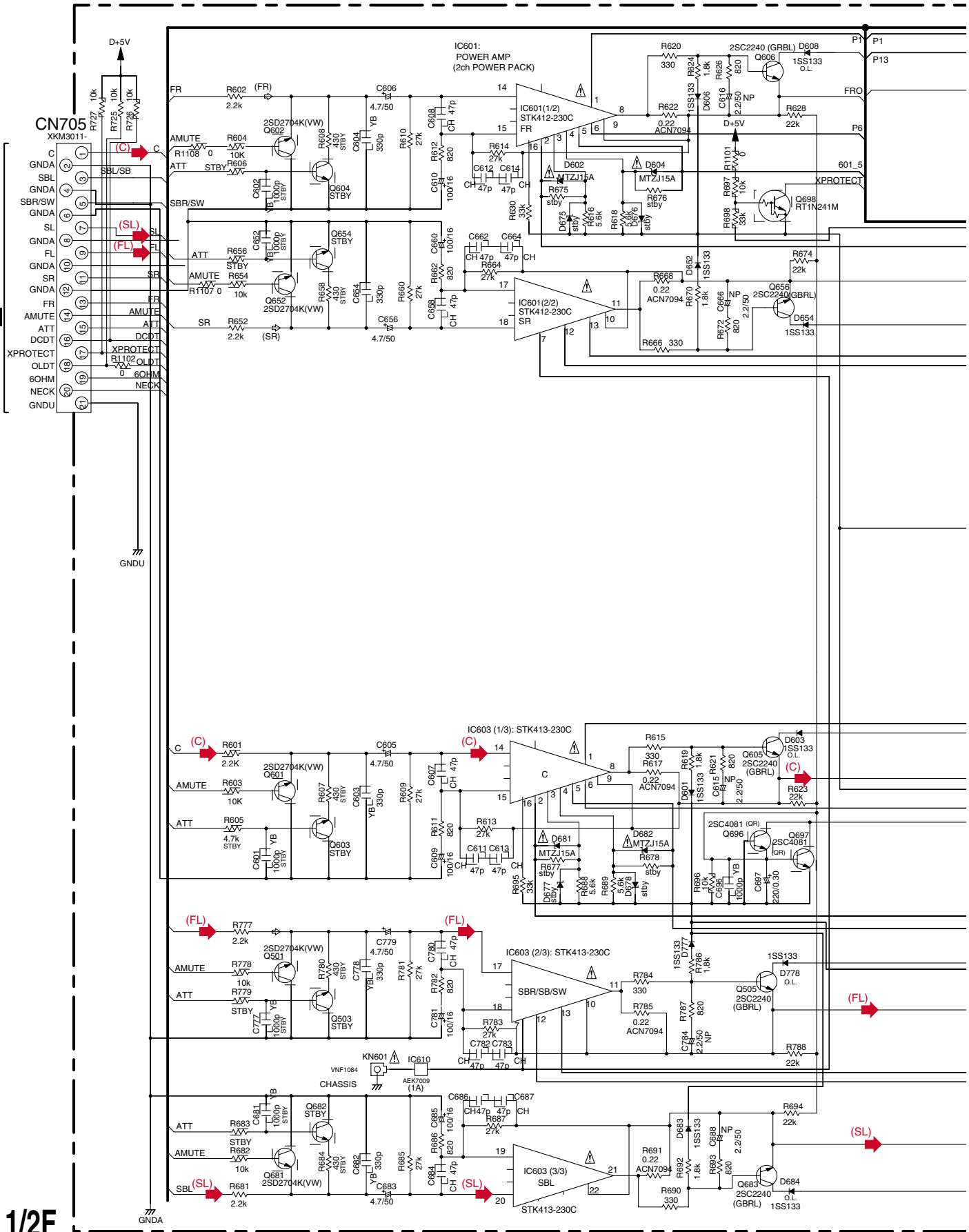
C

D

E

F

A 2/3F CN114



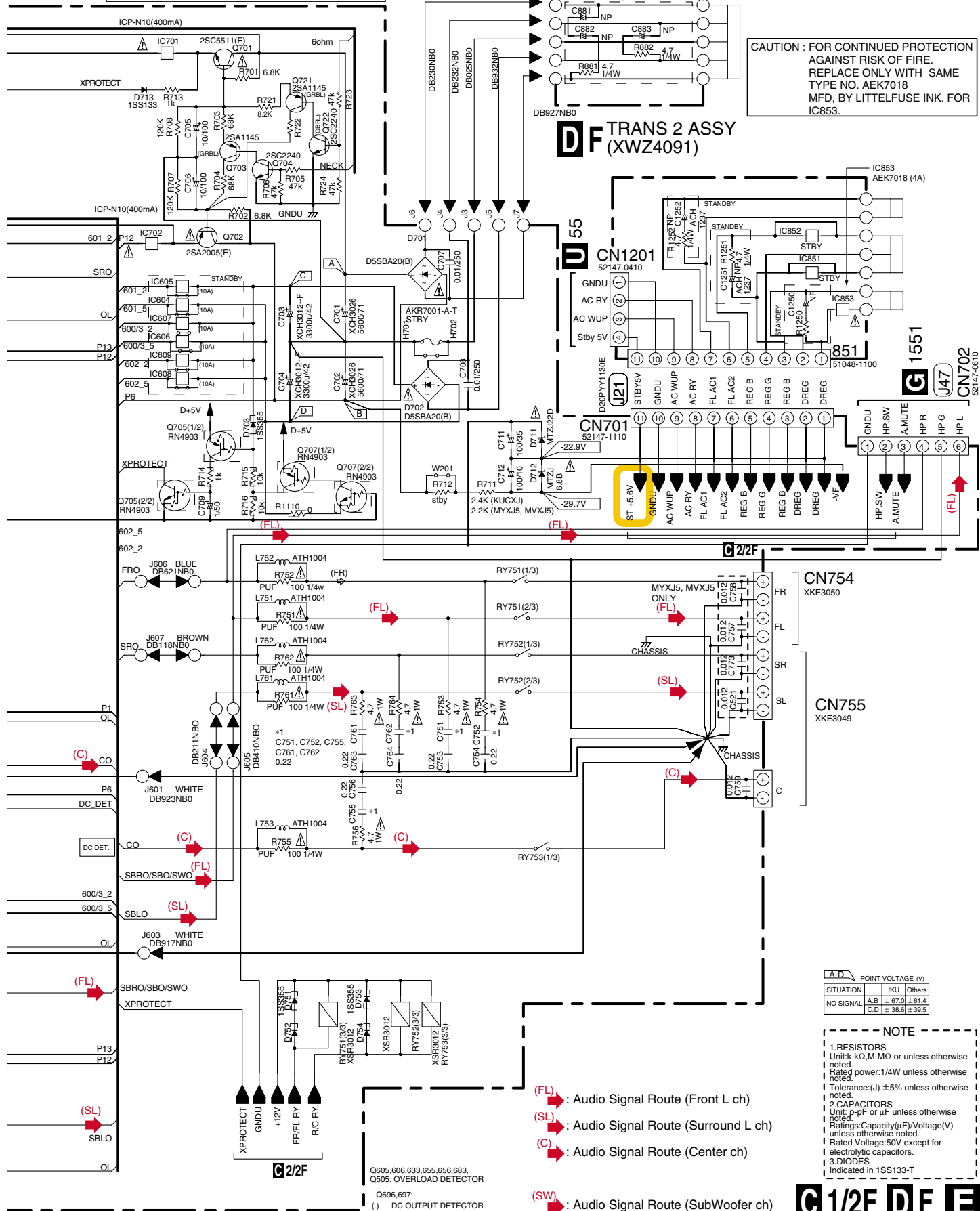
C 1/2F

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC701 and IC702.

E TRANS 3 ASSY (XWZ4079)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7018 MFD. BY LITTELFUSE INK. FOR IC853.

D TRANS 2 ASSY (XWZ4091)



A-D POINT VOLTAGE (V)		
SITUATION	KU	Others
NO SIGNAL	A.B ± 67.0 ± 61.4	C.D ± 38.6 ± 39.5

- NOTE**
- 1. RESISTORS
Unit:k-kΩ, M-MΩ or unless otherwise noted.
Rated power:1/4W unless otherwise noted.
 - 1 Tolerance:(J) ±5% unless otherwise noted.
 - 2. CAPACITORS
Unit:p-pF or μF unless otherwise noted.
Ratings:Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
 - 3. DIODES
Indicated in 1SS133-T

- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center ch)
- (SW) : Audio Signal Route (SubWoofer ch)

O605,606,633,655,656,683,
O505: OVERLOAD DETECTOR
O696,697:
() DC OUTPUT DETECTOR

C 1/2F DF E

2.5 POWER PACK ASSY (1/2)

C 2/2F POWER PACK ASSY (XWZ4081)

A

B

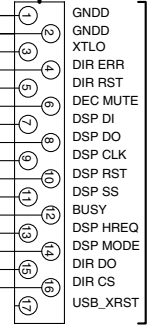
C

D

E

F

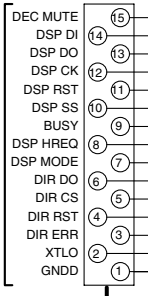
J45



A 3/3F
CN112

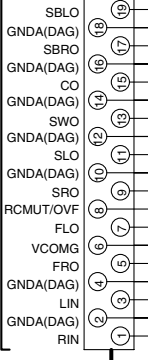
CN817
CKS3382

CN807
XKP3067



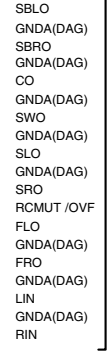
B 2/2
CN952

CN806
XKP3069



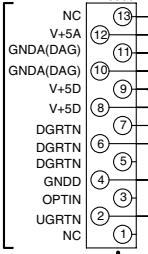
B 1/2
CN701

CN815
XKM3005



A 1/3F
CN109

CN805
XKP3066

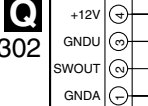


B 1/2
CN902

CN803
KM200TA6



CN302



C 2/2F

- (L) : Audio Signal Route (L ch)
- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center ch)
- (SW) : Audio Signal Route (SubWoofer ch)

NOTE

1.RESISTORS
Unit:k- Ω ,M-M Ω or unless otherwise noted.
Rated power:1/4W 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.

