

Pioneer

Service Manual

ORDER NO.
RRV2338

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-909RDS VSX-909RDS-G

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-909RDS	VSX-909RDS-G		
HY	○	—	AC220-230V	AC240V, *
HV	○	—	AC230V	AC240V, *
HY	—	○	AC220-230V	AC240V, *

* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

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

Model No.	Order No.	Remarks
VSX-D909S/KU/CA	RRV2295	

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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.

● 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 $\boxed{5}\boxed{6}\boxed{1}J$

47k $\rightarrow$ $47 \times 10^3 \rightarrow$ 473 RD1/4PU $\boxed{4}\boxed{7}\boxed{3}J$

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

1 $\rightarrow$ 1R0 RS1P $\boxed{1}\boxed{R}\boxed{0}K$

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 $\boxed{5}\boxed{6}\boxed{2}\boxed{1}F$

■ CONTRAST TABLE

VSX-D909S/KU/CA, VSX-909RDS/HY, VSX-909RDS/HV and VSX-909RDS-G/HY are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.				Remarks	
			VSX-D909S /KU/CA	VSX-909RDS /HY	VSX-909RDS /HV	VSX-909RDS-G /HY		
		PCB ASSEMBLIES						
P5- 5 P5-12	NSP	MAIN ASSY	AWK7643	AWK7645	AWK7645	AWK7645	No. 1	
		└ MAIN CONTROL ASSY	AWX7708	AWX7710	AWX7710	AWX7710		
		└ VIDEO ASSY	AWX7394	AWX7677	AWX7677	AWX7677		
P5- 2 P5- 3 P5- 4 P5-11 P5-15	NSP	COMPLEX ASSY	AWK7522	AWK7529	AWK7557	AWK7529		
		└ EXTERNAL IN ASSY	AWX7398	AWX7413	AWX7413	AWX7413		
		└ A- PINJACK ASSY	AWX7397	AWX7412	AWX7412	AWX7412		
		└ CONNECTION ASSY	AWX7313	AWX7347	AWX7347	AWX7347		
		└ TRANS 2-2 ASSY	AWX7366	AWX7518	AWX7518	AWX7518		
		└ PRIMARY ASSY	AWX7311	AWX7345	AWX7454	AWX7345		
P5-16	NSP	COMPLEX 2 ASSY	AWK7628	AWK7627	AWK7627	AWK7627		
		└ RF/DIGITAL IN ASSY	AWX7642	AWX7638	AWX7638	AWX7638		
P5-19 P9- 1 P9- 2	NSP	FRONT/VAMP ASSY	AWK7658	AWK7660	AWK7660	AWK7660		
		└ V-AMP ASSY	AWX7409	AWX7309	AWX7309	AWX7309		
		└ H. PHONE/F. VIDEO ASSY	AWX7528	AWX7342	AWX7342	AWX7342		
		└ DISPLAY ASSY	AWX7700	AWX7702	AWX7702	AWX7702		
		└ P- SW ASSY	Not used	AWX7330	AWX7330	AWX7330		
P5- 6 P5- 8	NSP	POWER/CURRENT ASSY	AWK7652	AWK7653	AWK7653	AWK7653		
		└ TRANS 2-1 ASSY	AWX7695	AWX7696	AWX7696	AWX7696		
		└ SP/PS ASSY	AWX7689	AWX7691	AWX7691	AWX7691		
P5-18		DSP ASSY	AWX7633	AWX7632	AWX7632	AWX7632		
PACKING SECTION								
P3- 2		FM Antenna	ADH7007	ADH7010	ADH7010	ADH7010		
P3- 3		Operating Instructions (English)	ARB7232	ARB7234	ARB7234	ARB7234		
P3- 3		Operating Instructions (German)	Not used	ARC7314	Not used	ARC7314		
P3- 3		Operating Instructions (French)	Not used	ARC7315	Not used	ARC7315		
P3- 3		Operating Instructions (Italian)	Not used	ARC7316	Not used	ARC7316		
P3- 3		Operating Instructions (Dutch)	Not used	ARC7317	Not used	ARC7317		
P3- 3		Operating Instructions (Swedish)	Not used	ARC7319	Not used	ARC7319		
P3- 3		Operating Instructions (Spanish)	Not used	ARC7320	Not used	ARC7320		
P3- 3		Operating Instructions (Portuguese)	Not used	ARC7318	Not used	ARC7318		

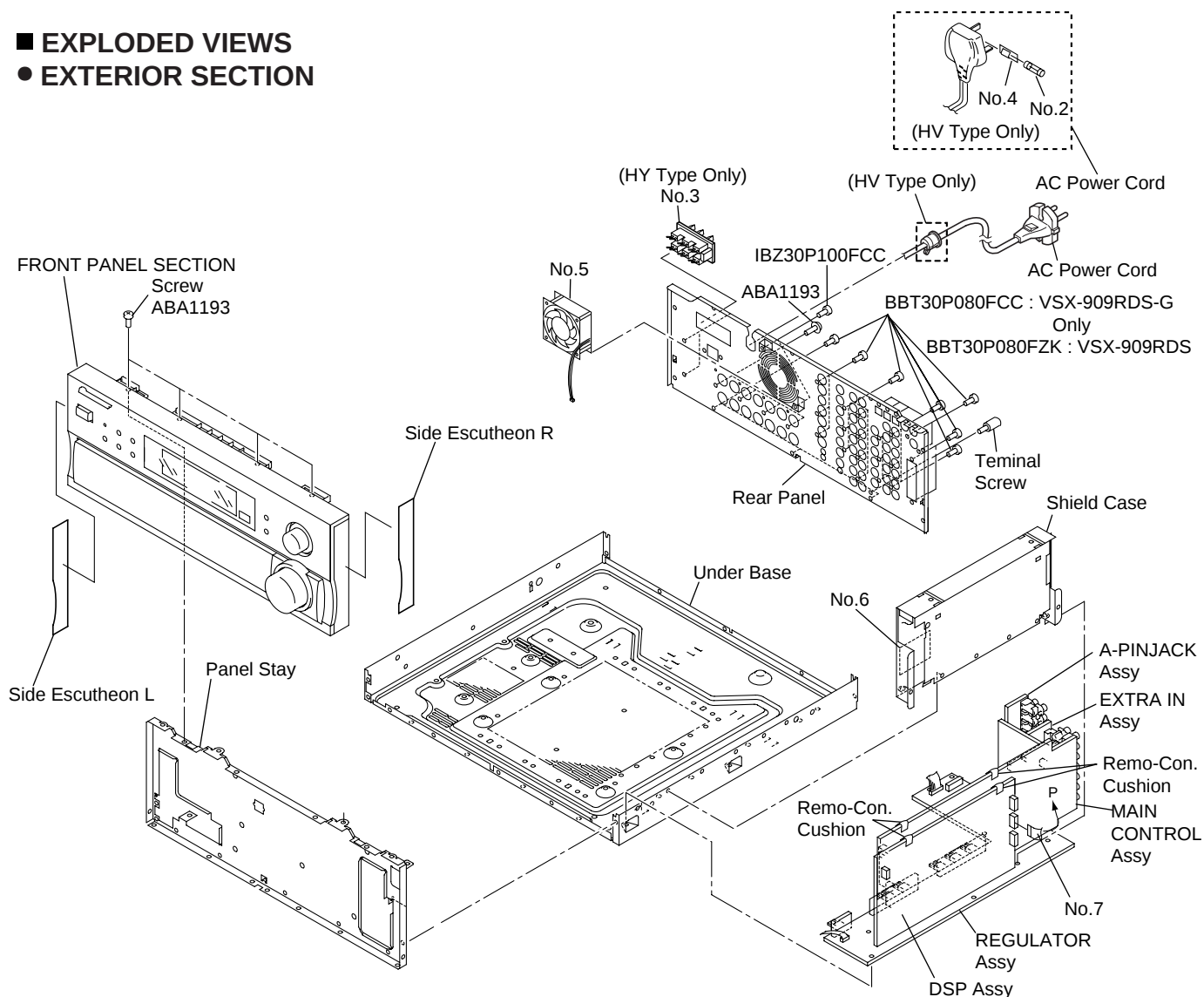
Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D909S /KU/CA	VSX-909RDS /HY	VSX-909RDS /HV	VSX-909RDS-G /HY	
P3- 4 P3- 9 P3-12	NSP	PACKING SECTION Remote Control Unit Packing Case Warranty Card	AXD7278 AHD7883 ARY7045	AXD7258 AHD7887 ARY7022	AXD7258 AHD7887 ARY7022	AXD7279 AHD7888 ARY7022	
P5-20 P5-21 P5-22 P5-23 P5-24	⚠	EXTERIOR SECTION AC Power Cord Power Transormer FM/AM TUNER Unit Fuse (FU1:) Fuse (FU4, FU5:)	ADG7024 ATS7252 AXX7046 VEK1029 (10A) REK1079 (2.5A)	ADG7029 ATS7253 AXX7048 AEK-514 (T4A) AEK-511 (T2.0A)	VDG1063 ATS7253 AXX7048 AEK-514 (T4A) AEK-511 (T2.0A)	ADG7029 ATS7253 AXX7048 AEK-514 (T4A) AEK-511 (T2.0A)	
P5-26 P5-26 P5-27 P5-54 P5-58		AC Cord Spacer Cord Stopper Bonnnet Case Rear Panel Side Escutheon L	Not used CM-22C AZN7789 ANC7946 AAK7633	ANG1153 Not used AZN7860 ANC7952 AAK7660	Not used CM-22B AZN7860 ANC7951 AAK7660	ANG1153 Not used AZN7861 ANC7953 AAK7662	
P5-59	⚠	Side Escutheon R Fuse (T5A) AC Socket 3P Fuse Holder Fan Motor	AAK7634 Not used Not used Not used Not used	AAK7661 Not used AKP-502 Not used AXM7012	AAK7661 PEK1003 Not used VKR1003 AXM7012	AAK7663 Not used AKP-502 Not used AXM7012	No. 2 No. 3 No. 4 No. 5
		Sheet 2P Shield with Housing (J24)	Not used Not used	AED7035 ADX7250	AED7035 ADX7250	AED7035 ADX7250	No. 6 No. 7
	⚠	HEAT SINK SECTION Thermistor	Not used	AEX7004	AEX7004	AEX7004	No. 8
P9- 4 P9- 5 P9- 7 P9- 9 P9-10		FRONT PANEL SECTION Door Hinge L Door Hinge R Door Panel Door Plate Door Sheet	AMR7252 AMR7253 AMB7624 AAH7024 AAK7790	AMR7252 AMR7253 ANB7241 Not used AAK7791	AMR7252 AMR7253 ANB7241 Not used AAK7791	AMR7325 AMR7326 ANB7239 Not used AAH7068	
P9-11 P9-13 P9-14 P9-20 P9-21		Display Panel Power Button MR Button Damper Assy Sub Panel	AAK7625 AAD7440 AAD7514 AXA7078 AMB7617	AAK7795 AAD7440 AAD7514 AXA7076 ANB7200	AAK7795 AAD7440 AAD7514 AXA7076 ANB7200	AAK7792 AAD7485 AAD7589 AXA7076 ANB7207	
P9-22 P9-24 P9-25 P9-27 P9-29 P9-30		Volume Ring Door Cusion Front Panel Name Plate FL Sheet Volume Knob (MASTER)	AAK7623 AEB7152 AMB7719 PAN1376 AAK7627 AAB7193	AAH7028 AEB7152 ANB7236 PAN1376 AAK7629 AAB7199	AAH7028 AEB7152 ANB7236 PAN1376 AAK7629 AAB7199	AAH7016 AEB7153 ANB7237 PAN1377 AAK7805 AAB7210	
P9-31 P9-38		Rotary Knob (INPUT SELECTOR) Panel Base Ring Spacer POWER Button MG	AAB7196 AMB7569 Not used Not used	AAB7221 AMB7637 AWL7038 AAD7442	AAB7221 AMB7637 AWL7038 AAD7442	AAB7209 AMB7572 AWL7038 AAD7491	No. 9 No. 10

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

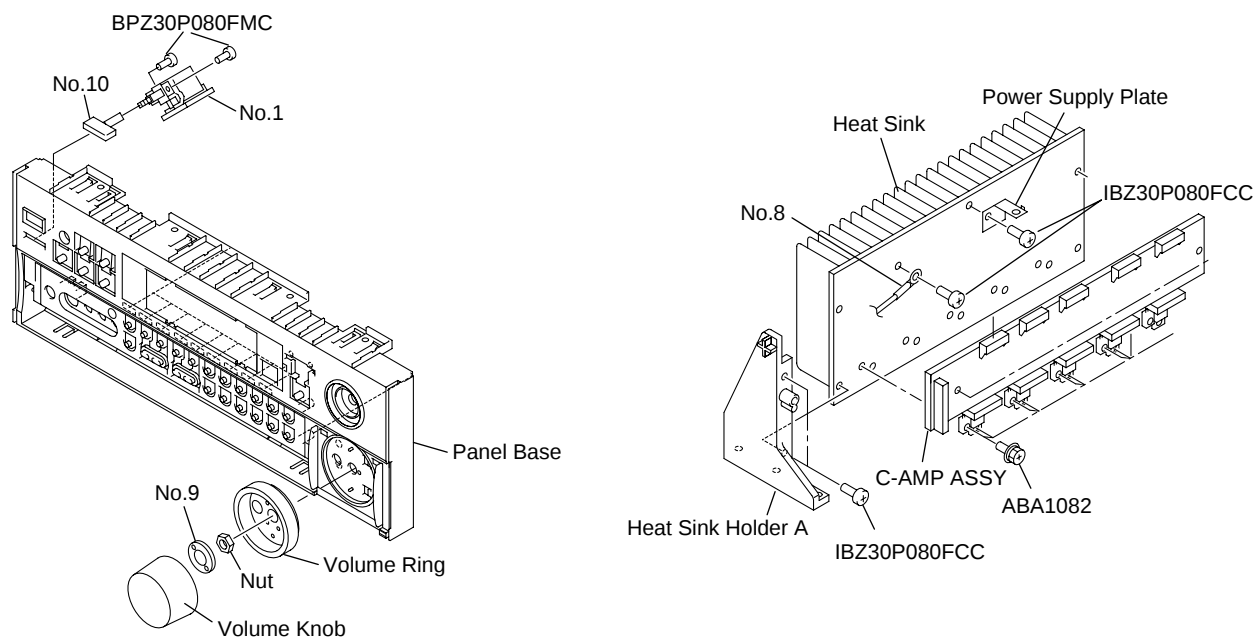
- For PCB ASSEMBLIES, Refer to “CONTRAST OF PCB ASSEMBLIES”, “2. PCB CONNECTION DIAGRAM” and “3. SCHEMATIC DIAGRAM”.

VSX-909RDS, VSX-909RDS-G

■ EXPLODED VIEWS ● EXTERIOR SECTION



● FRONT PANEL and HEAT SINK SECTIONS



■ CONTRAST OF PCB ASSEMBLIES

AF EXTERNAL IN ASSY

AWX7413 and AWX7398 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7398	AWX7413	
	C1101- C1106	Not used	CCCSL271J50	

BF A-PINJACK ASSY

AWX7412 and AWX7397 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7397	AWX7412	
	C1001-C1006, C1009, C1010, C1013, C1014	Not used	CCCSL271J50	
	C1007, C1008, C1011, C1012, C1015- C1018	Not used	CCCSL101J50	
	R1017, R1018	Not used	RD1/4PU101J	

CF CONNECTION ASSY

AWX7347 and AWX7313 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7313	AWX7347	
	C1301- C1306	Not used	CCCSL680J50	
	C1353, C1354	Not used	CCCSL181J50	
	C1355, C1356	Not used	CKCYB331K50	
	C1365, C1366	CEAT101M16	CEAT101M25	
	L1351- L1354	Not used	LAU181J	
	R1353, R1354	RD1/4PU331J	RD1/4PU122J	

EF V-AMP ASSY

AWX7309 and AWX7409 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7409	AWX7309	
	IC7502, IC7522, IC7542, IC7602, IC7622	Not used	NJM4558MD	
	Q7501, Q7521, Q7541, Q7601, Q7621	Not used	2SC2878	
	D7501, D7502, D7521, D7522, D7541, D7542	Not used	1SS355	
	D7601, D7602, D7621, D7622	Not used	1SS355	
	D7503, D7504, D7523, D7524, D7543, D7544	Not used	HZU2CLL	
	D7603, D7604, D7623, D7624	Not used	HZU2CLL	
	C7505, C7525, C7545, C7605, C7625	Not used	CCSQCH220J50	
	C7506, C7526, C7546, C7606, C7626	Not used	CEAT4R7M50	
	C7510, C7530, C7550, C7610, C7630	Not used	CKSQYB104K25	
	R7504, R7604, R7624	RS1/10S0R0J	RS1/10S103J	
	R7507, R7508, R7510, R7527, R7528	Not used	RS1/10S334J	
	R7530, R7547, R7548, R7550, R7607	Not used	RS1/10S334J	
	R7608, R7610, R7627, R7628, R7630	Not used	RS1/10S334J	
	R7524, R7544	RS1/10S0R0J	RS1/10S103J	
	R7509, R7529, R7609, R7629, R7549	Not used	RS1/10S103J	
	R7511, R7531, R7551, R7611, R7631	Not used	RS1/10S102J	
	R7512, R7513, R7516, R7517, R7532	Not used	RS1/10S473J	
	R7533, R7536, R7537, R7552, R7553	Not used	RS1/10S473J	
	R7557, R7612, R7616, R7617, R7632	Not used	RS1/10S473J	
	R7633, R7636, R7637, R7556, R7613	Not used	RS1/10S473J	
	R7514, R7534, R7554, R7614, R7634	Not used	RS1/10S101J	
	R7515, R7518, R7535, R7538, R7555	Not used	RS1/10S105J	
	R7558, R7615, R7618, R7635, R7638	Not used	RS1/10S105J	
	R7641	Not used	RS1/10S914J	
	R7653- R7656, R7663- R7666, R7673- R7676	Not used	RS1/10S0R0J	
	R7683-R7686, R7693-R7696	Not used	RS1/10S0R0J	

VSX-909RDS, VSX-909RDS-G

DF MAIN CONTROL ASSY

AWX7710 and AWX7708 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7708	AWX7710	
	IC102	BU4052BCF	Not used	
	IC109	NJM4558MD	Not used	
	IC110	M62429FP	Not used	
	IC115	Not used	NJM4558LD	
	IC901	PD5589A	PD5596A	
	Q113, Q114	2SC2878	Not used	
	Q992	Not used	2SC2412K	
	D201, D202	UDZS5.1B	Not used	
	D251, D252	Not used	1SS355	
	D253	Not used	UDZS5.1B	
	C101, C102, C105, C106	Not used	CCSQCH271J50	
	C103, C104, C183, C184- C188	Not used	CCSQCH221J50	
	C113, C114	Not used	CCSQCH680J50	
	C131, C132, C253, C254, C995	Not used	CKSQYB103K50	
	C155, C156, C165, C166, C175, C176	Not used	CCSQCH101J50	
	C141, C142, C145- C150	CEAT100M50	Not used	
	C143, C144	CKSQYB103K50	Not used	
	C252	Not used	CEAT470M16	
	C960, C961	CCSQCH101J50	Not used	
	R109	RD1/2VM391J	Not used	
	R110, R131, R132	RS1/10S472J	Not used	
	R145, R146	RS1/10S473J	Not used	
	R129, R130	RS1/10S104J	Not used	
	R133, R134, R141- R144, R934- R936	RS1/10S102J	Not used	
	R986, R987	RS1/10S102J	Not used	
	R135, R136, R923, R925, R928	RS1/10S103J	Not used	
	R207- R211, R252, R253	Not used	RS1/10S104J	
	R251	Not used	RS1/10S474J	
	R254	Not used	RS1/10S102J	
	R255	Not used	RS1/10S393J	
	R325- R330, R333, R334	RS1/10S0R0J	Not used	
	R370, R996	Not used	RS1/10S0R0J	
	R924, R926, R927	Not used	RS1/10S103J	
	R992	Not used	RS1/10S221J	
	R993	Not used	RS1/10S101J	
	R994	Not used	RS1/10S472J	
	JA931	VKB1060	Not used	

JF TRANS 2-1 ASSY

AWX7696 and AWX7695 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7695	AWX7696	
△	C4502 (1μF/100V)	Not used	ACH1237	
△	C4513 (1μF/100V)	Not used	ACH1237	
△	R4502	Not used	RFA1/4PS100J	
△	R4504	Not used	RFA1/4PS100J	

L F SP / PS ASSY

AWX7691 and AWX7689 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7689	AWX7691	
△	IC3001	Not used	AEK7007	
	Q3501	Not used	2SC4793	
△	Q3502- Q3505	Not used	DTC124ES	
	Q3506	Not used	2SA992	
△	D3052, D3054, D3056, D3058, D3060	Not used	1SS133	
	D3503, D3504, D3509	Not used	1SS133	
△	D3501, D3502	Not used	S5688G	
	D3505	Not used	MTZJ16B	
△	D3507	Not used	MTZJ5.1B	
	D3508	Not used	MTZJ11B	
△	C3001, C3002 (22000μF/56V)	ACH7130	ACH7068	
	C3101- C3105	CFTYA104J50	CFTYA224J50	
△	C3106- C3110	Not used	CFTYA224J50	
	C3111- C3117	CQHA102J2A	CQMA332K2E	
△	C3501	Not used	CEAT471M35	
	C3502	Not used	CEAT1R0M50	
△	C3503	Not used	CKCYF103Z50	
	C3504	Not used	CEAT471M25	
△	C3505	Not used	CEAT101M16	
	C3506	Not used	CCCCH680J50	
△	L3001, L3002	Not used	ATX1012	
	R3133, R3134	Not used	RS1LMF471J	
△	R3501	Not used	RD1/4PU820J	
	R3502, R3506, R3507	Not used	RD1/4PU473J	
△	R3503	Not used	RD1/4PU102J	
	R3504	Not used	RD1/4PU104J	
△	R3505	Not used	RD1/4PU682J	
	R3508	Not used	RD1/4PU103J	
△	CN3002	Not used	KM250MA3	
	CN3101	AKE7058	AKE7059	
△	CN3102	AKE7060	AKE7061	

O F TRANS 2-2 ASSY

AWX7518 and AWX7366 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7366	AWX7518	
△	C5501	Not used	CEANPR47M50	
△	C5502	Not used	ACH1237 (1μF/100V)	
△	R5501	Not used	RFA1/4PS100J	
△	R5502	Not used	RD1/4PU104J	

P F VIDEO ASSY

AWX7677 and AWX7394 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7394	AWX7677	
	IC731	NJM2279M	Not used	
	D731	1SS355	Not used	
	C732, C733, C736	CKSQYB473K50	Not used	
	C791	CKSQYB103K	Not used	
	R717	RS1/10S101J	RS1/10S0R0J	
	R732- R735	RS1/10S102J	Not used	
	CN701	52045-2645	HLEM26S-1	
	CN702	52045-2145	HLEM21S-1	
	JA705	AKN7014	Not used	

VSX-909RDS, VSX-909RDS-G

SF DISPLAY ASSY

AWX7702 and AWX7700 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7700	AWX7702	
	IC7051 IC7401 Q7053 Q7054 Q7401	TC7W53FU Not used FMA1A DTC124EK Not used	Not used BU1923 Not used Not used 2SA1993	
	Q7402 Q7403 D7002 D7054– D7057 L7401	Not used Not used SLR-343DC(NPQ) 1SS355 Not used	DTC143ES 2SC1740S SLR-343VR(MNP) Not used LFA2R2J	
	C7053 C7401 C7402 C7403, C7404 C7405	CKSQYB153K50 Not used Not used Not used Not used	Not used CKSQYB472K50 CEAT2R2M50 CKSQYB102K50 CEAT101M10	
	C7406, C7407 C7408 C7409 R7042 R7056	Not used Not used Not used RS1/10S223J RS1/10S223J	CCSQCH270J50 CKSQYB561K50 CEAT1R0M50 RS1/10S103J Not used	
	R7057, R7061 R7058 R7401, R7407, R7408 R7403 R7404	RS1/10S103J RS1/10S392J Not used Not used Not used	Not used Not used RS1/10S102J RS1/10S222J RS1/10S473J	
	R7405 R7406 S7017 X7401 (4.332MHz)	Not used Not used Not used Not used	RS1/10S333J RS1/10S104J VSG1009 ASS7004	

VF PRIMARY ASSY

AWX7311, AWX7345 and AWX7454 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		AWX7311	AWX7345	AWX7454	
	C6002, C6003 C6006 R6001 R6002 L6003, L6004	ACG7020 CEAT470M25 RCN1080 Not used Not used	AEC7014 CEAT221M25 Not used RD1/4PU1R0J ATX1012	AEC7014 CEAT221M25 Not used RD1/4PU1R0J ATX1012	
	J6000 T6001 RY6001 Y6003 AWG18 BOARD IN Y6004 AWG18 BOARD IN	Not used ATT7043 ASR7022 Not used Not used	D20PYY0335E ATT7040 ASR1044 ADX7321 ADX7320	D20PYY0335E ATT7040 ASR1044 Not used Not used	
	Y6005 AWG18 BOARD IN 6004 6001	Not used AKP1053 Not used	ADX7319 Not used 51048-0300	Not used Not used 51048-0300	

RF H. PHONE / F. VIDEO ASSY

Although AWX7342 and AWX7528 are different in part number, they consist of the same components.

Y F DSP ASSY

AWX7633 and AWX7632 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7633	AWX7632	
	IC9041	Not used	NJM4558MD	
	IC9071	Not used	PM4007A	
	IC9091	Not used	LH52256CN-70LL	
	Q9001, Q9002, Q9004 - Q9006, Q9031	Not used	2SC3082K (NP)	
	Q9003, Q9032	Not used	2PD601A (QR)	
	Q9007	Not used	2PB709A (QR)	
	D9001	Not used	KV1851	
	D9002	Not used	1SS355	
	F9001	Not used	ATF7001	
	L9003	Not used	ATH7001	
	L9071	Not used	ATL7002	
	L9093, L9095	Not used	QTL1013	
	F9036, F9092	Not used	DTF1064	
	C9002 - C9006, C9008 - C9013, C9015, C9017	Not used	CKSRYF104Z16	
	C9018, C9031, C9032, C9051, C9052	Not used	CKSRYF104Z16	
	C9055, C9077, C9079, C9081, C9092	Not used	CKSRYF104Z16	
	C9043, C9058, C9073 - C9075, C9078, C9080	Not used	CKSQYF104Z25	
	C9007	Not used	CCSRCH750J50	
	C9014, C9054, C9056, C9070	Not used	CKSRYB103K50	
	C9016	Not used	CEJQ470M25	
	C9033	Not used	CCSRCH101J50	
	C9041, C9042	Not used	CKSRYF105Z10	
	C9053	Not used	CEJQNP4R7M25	
	C9057	Not used	CCSRCH270J50	
	C9071	Not used	CEJQ101M10	
	C9076	Not used	CCSQCH271J50	
	C9091	Not used	CEJA470M16	
	C9094, C9096	Not used	CCSRCH221J50	
	R9002, R9010, R9011, R9018, R9038, R9053	Not used	RS1/16S103J	
	R9054, R9071, R9072	Not used	RS1/16S103J	
	R9003, R9019	Not used	RS1/16S512J	
	R9004, R9015, R9016, R9020	Not used	RS1/16S202J	
	R9005, R9006, R9014, R9021, R9022, R9025	Not used	RS1/16S102J	
	R9073	Not used	RS1/16S102J	
	R9007, R9023, R9033	Not used	RS1/16S220J	
	R9008, R9027, R9030	Not used	RS1/16S302J	
	R9009, R9074	Not used	RS1/16S221J	
	R9013, R9017, R9034	Not used	RS1/16S152J	
	R9024, R9026	Not used	RS1/16S332J	
	R9028, R9029	Not used	RS1/16S561J	
	R9031, R9032	Not used	RS1/16S333J	
	R9035	Not used	RS1/16S223J	
	R9040	RS1/10S102J	Not used	
	R9036, R9091, R9095, R9096	Not used	RS1/16S0R0J	
	R9037, R9039	Not used	RS1/16S274J	
	R9041	Not used	RS1/16S472J	
	R9042, R9044, R9062	Not used	RS1/16S392J	
	R9043	Not used	RS1/16S273J	
	R9046	Not used	RS1/16S104J	
	R9047	Not used	RS1/16S432J	
	R9051	Not used	RS1/16S393J	
	R9052	Not used	RS1/16S243J	
	R9055	Not used	RS1/16S121J	
	R9056	Not used	RS1/16S683J	
	R9057 - R9059	Not used	RS1/16S473J	
	R9061	Not used	RS1/16S471J	
	R9075, R9076	Not used	RS1/16S101J	
	R9090	Not used	RS1/10S0R0J	
	R9153	RS1/16S0R0J	Not used	
	CN9804	Not used	KM250MA3	
	X9001	Not used	ASS7009	

WF RF/DIGITAL IN ASSY

AWX7638 and AWX7642 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7642	AWX7638	
	CN1250 1200 JA1204 PIN JACK	Not used Not used AKB7095	KM250MA3 VEF1040 AKB7091	

PCB PARTS LIST

Mark	No.	Description	Part No.
------	-----	-------------	----------

VA P-SW ASSY

SWITCHES AND RELAYS

S6801	ASG1035
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CAPACITORS

C6801, C6802	CGCYX103K25
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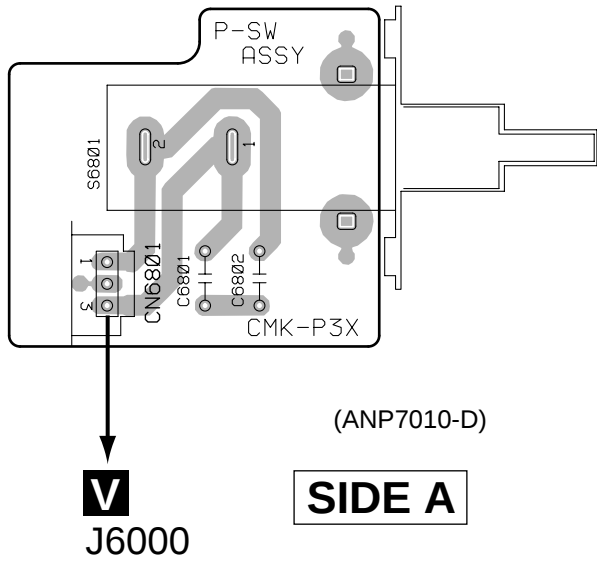
OTHERS

CN6801 3P JUMPER CONNECTOR	52151-0310
----------------------------	------------

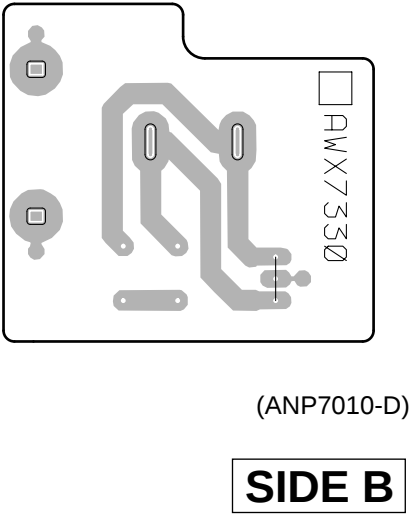
2. PCB CONNECTION DIAGRAM

2.1 P- SW ASSY

VA P-SW ASSY



VA P-SW ASSY



● Line Voltage Selection

Line Voltage can be changed by the following modification:

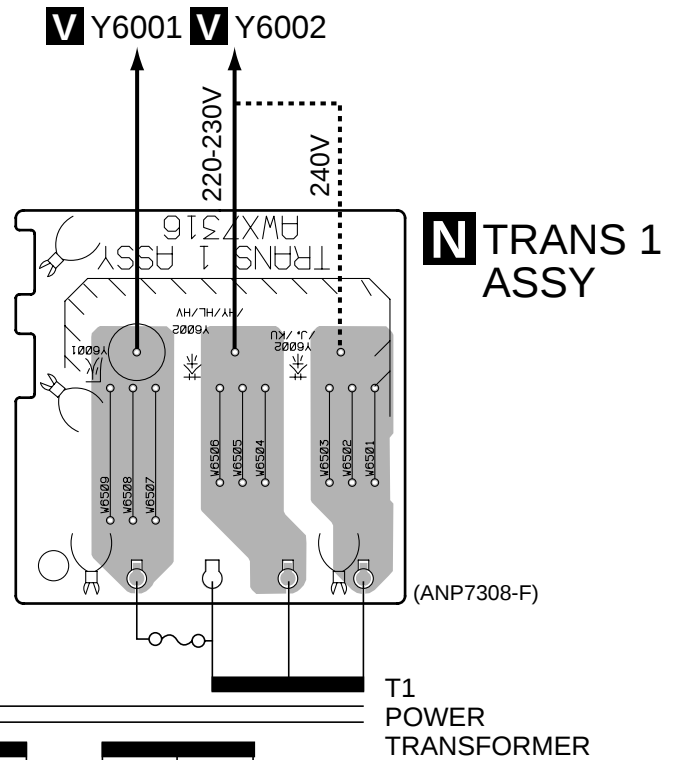
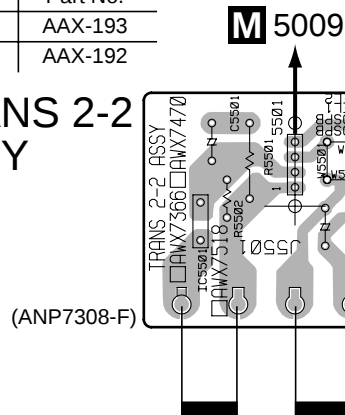
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY (Terminal No. Y6002) to AMP ASSY (Terminal No. Y6002) as follows.

Voltage	Terminal No. of TRANS 1 ASSY
220-230V	Y6002/HY/HL/HV
240V	Y6002/J,KU

4. Stick a line voltage label on the rear panel.

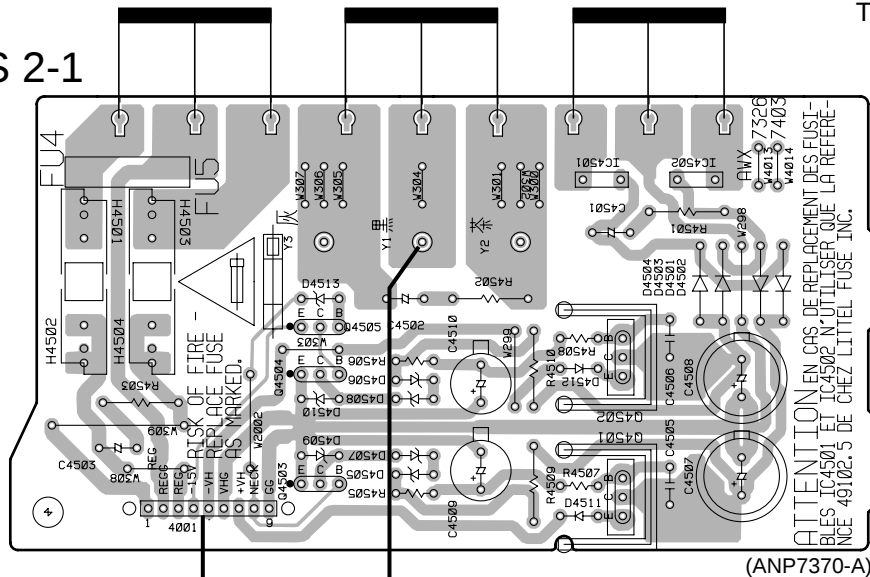
Description	Part No.
220V label	AAX-193
240V label	AAX-192

O TRANS 2-2 ASSY



T1
POWER
TRANSFORMER

J TRANS 2-1 ASSY



IC4501 IC4502

Q4505 Q4502

Q4504 Q4502

Q4503 Q4501

L 3001

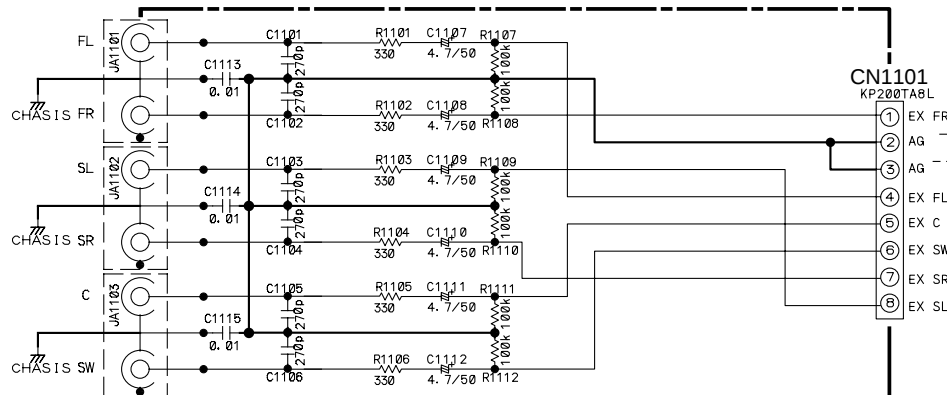
L Y1

3. SCHEMATIC DIAGRAM

3.1 EXTRA IN, A-PINJACK and CONNECTION ASSYS

A
F
EXTRA IN ASSY
(AWX7413)

JA1101-JA1103
(AKB7095)

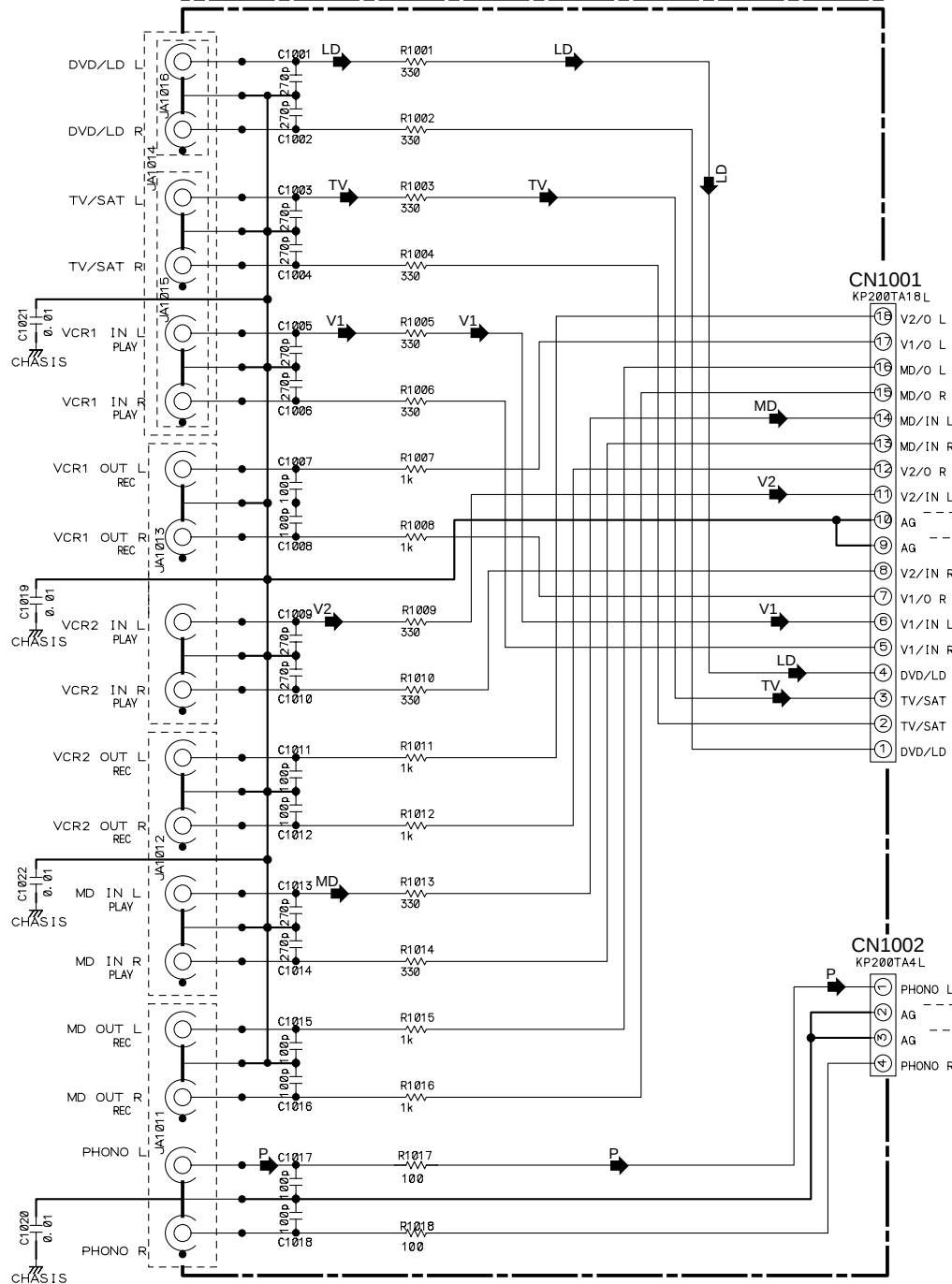


B
F
A-PINJACK ASSY
(AWX7412)

JN1016: AKB7120

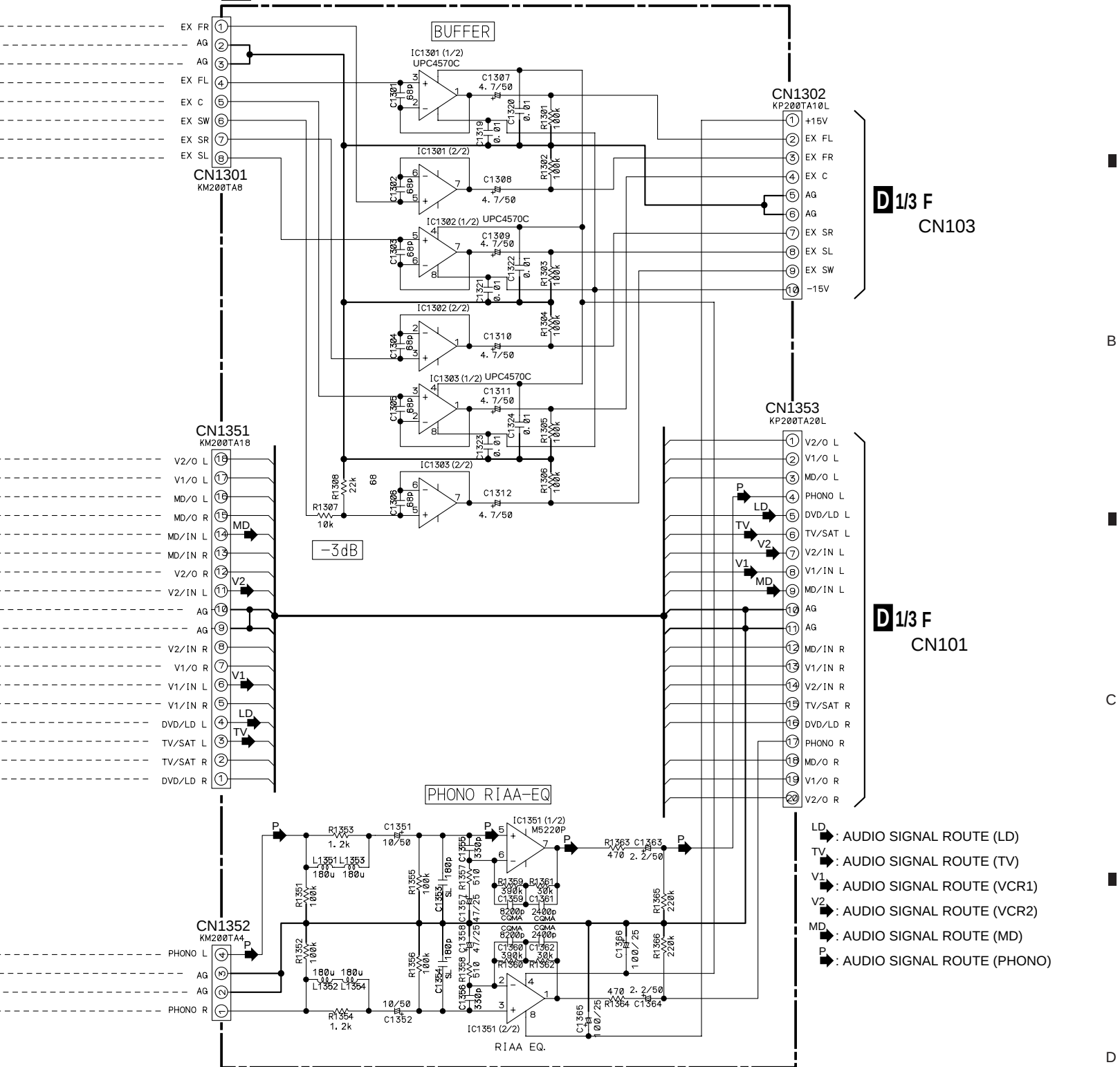
JN1015: AKB7048

JA1011-JA1013 :
AKB7048



Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

CF CONNECTION ASSY (AWX7347)



3.2 MAIN CONTROL ASSY (1/3)

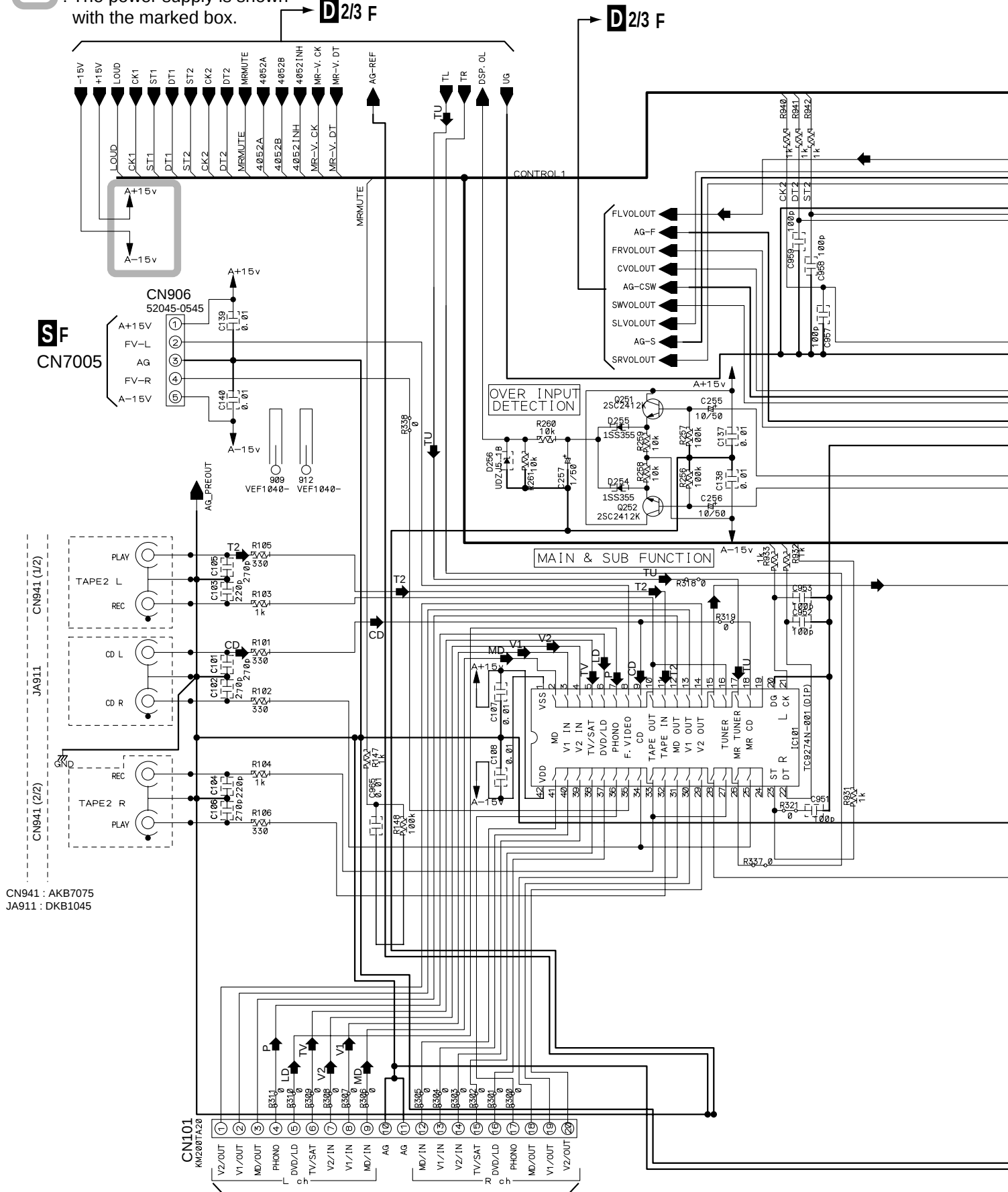
 : The power supply is shown with the marked box. **D 2/3 F**

A

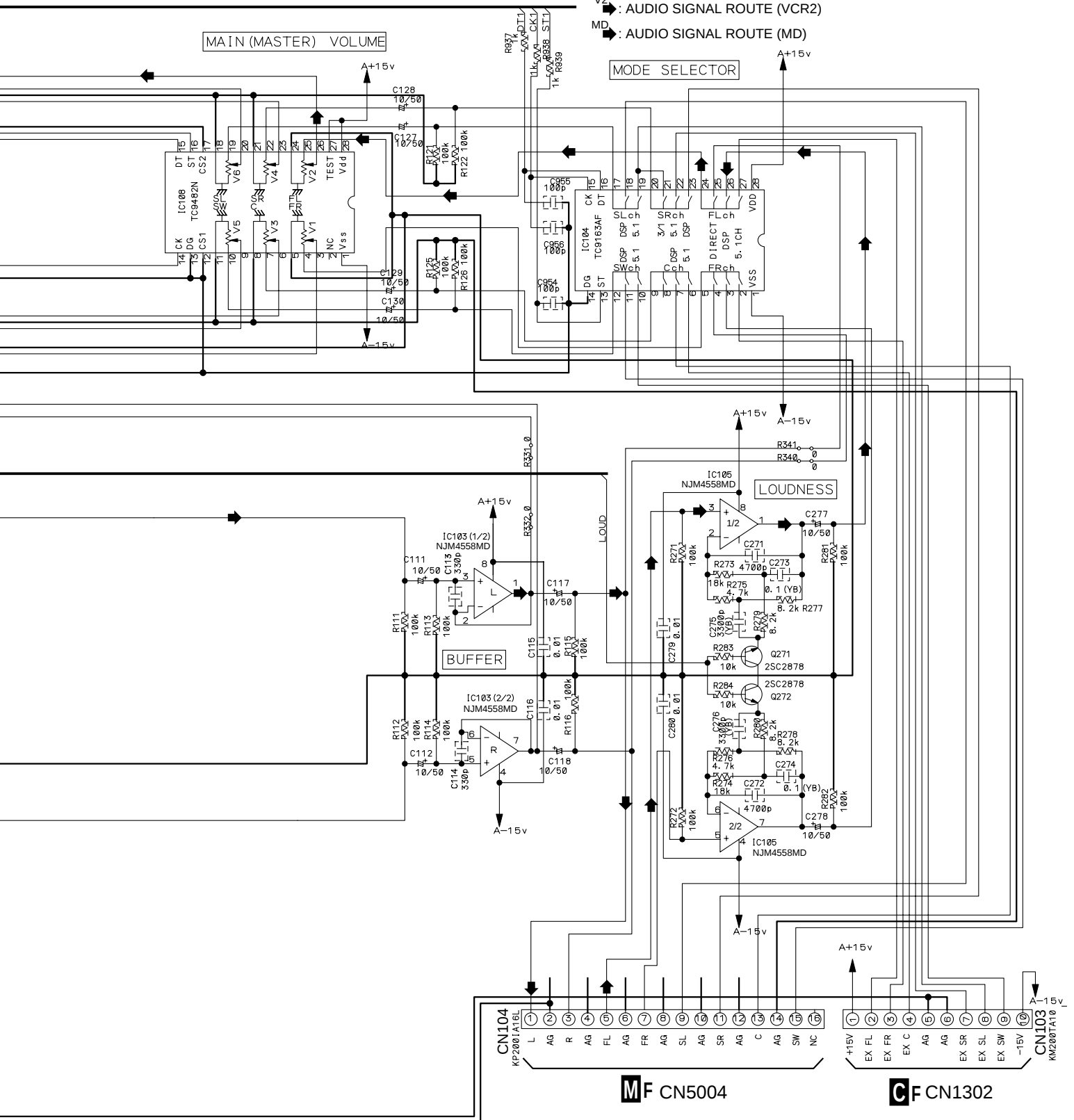
B

C

D

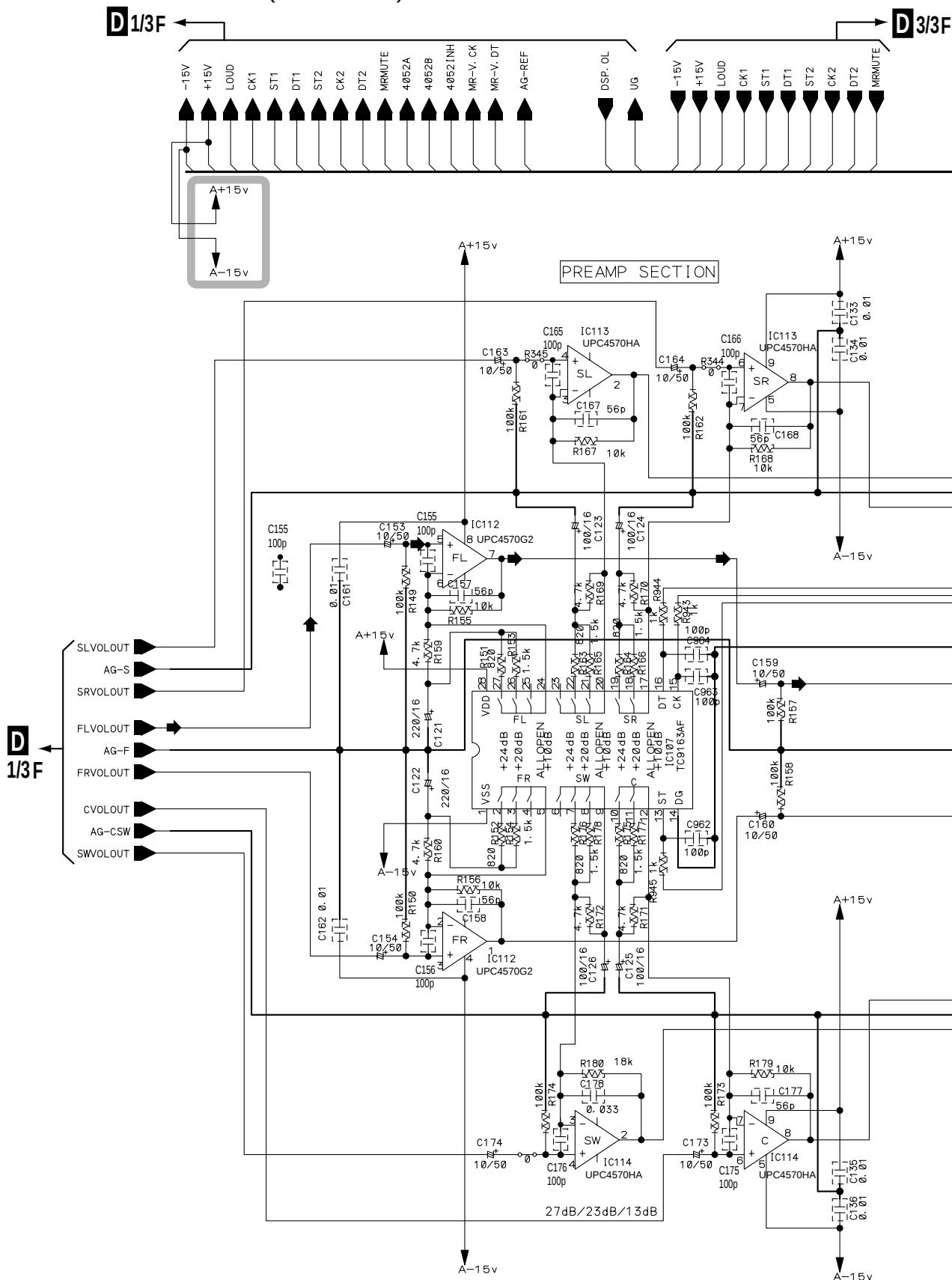


CN941 : AKB7075
JA911 : DKB1045



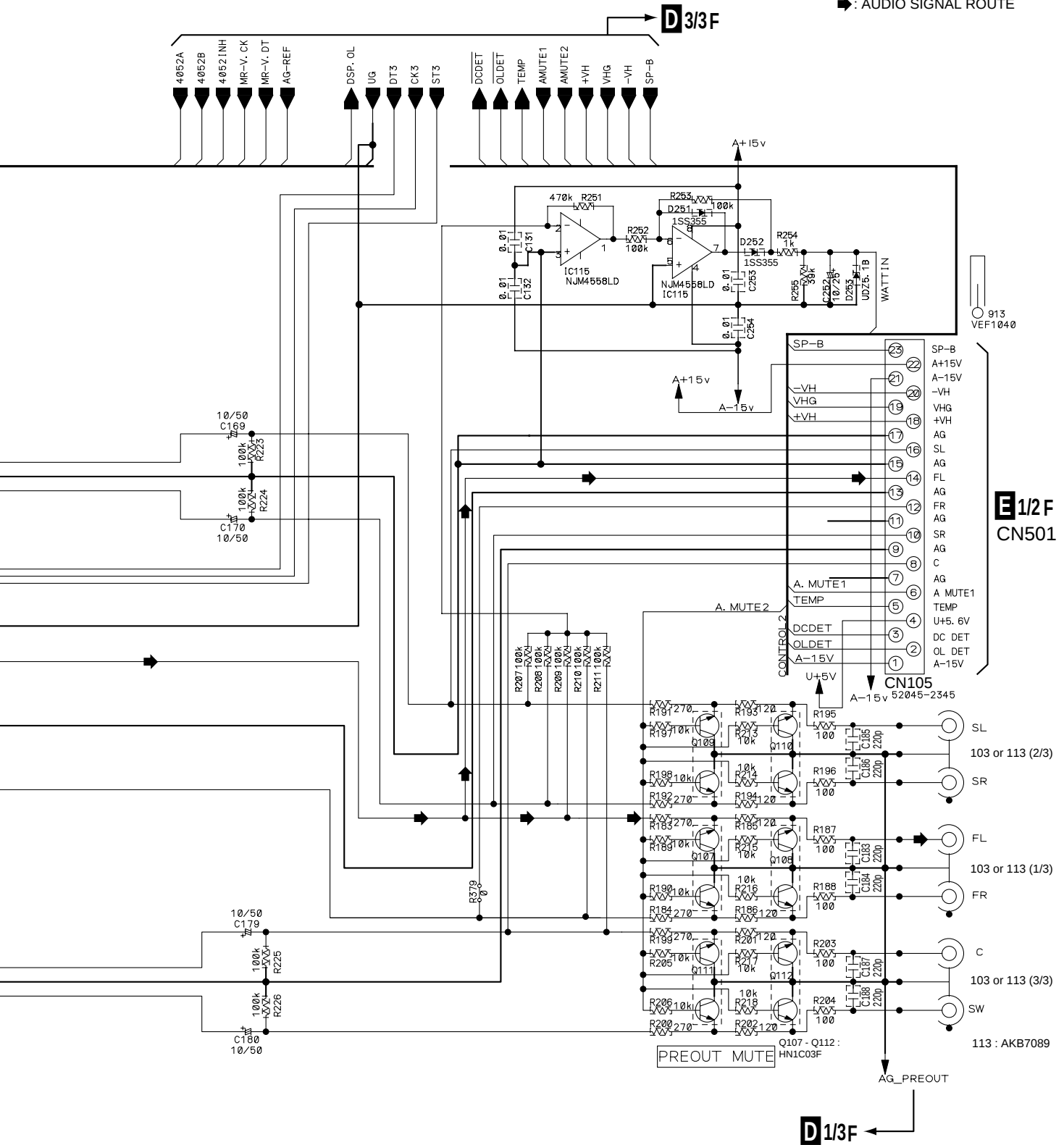
3.3 MAIN CONTROL ASSY (2/3)

D 2/3 F MAIN CONTROL ASSY (AWX7710)



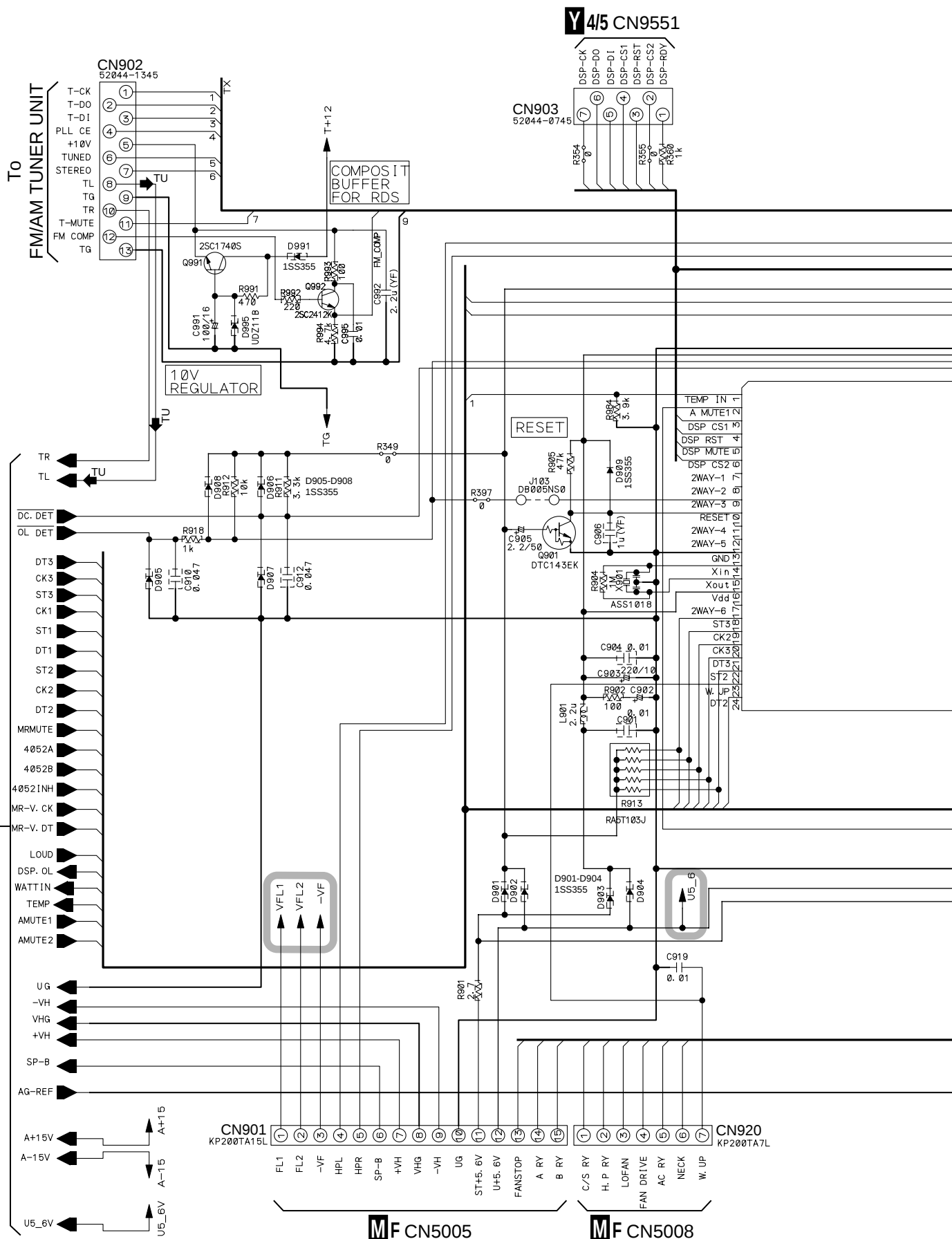
: The power supply is shown with the marked box.

➡: AUDIO SIGNAL ROUTE



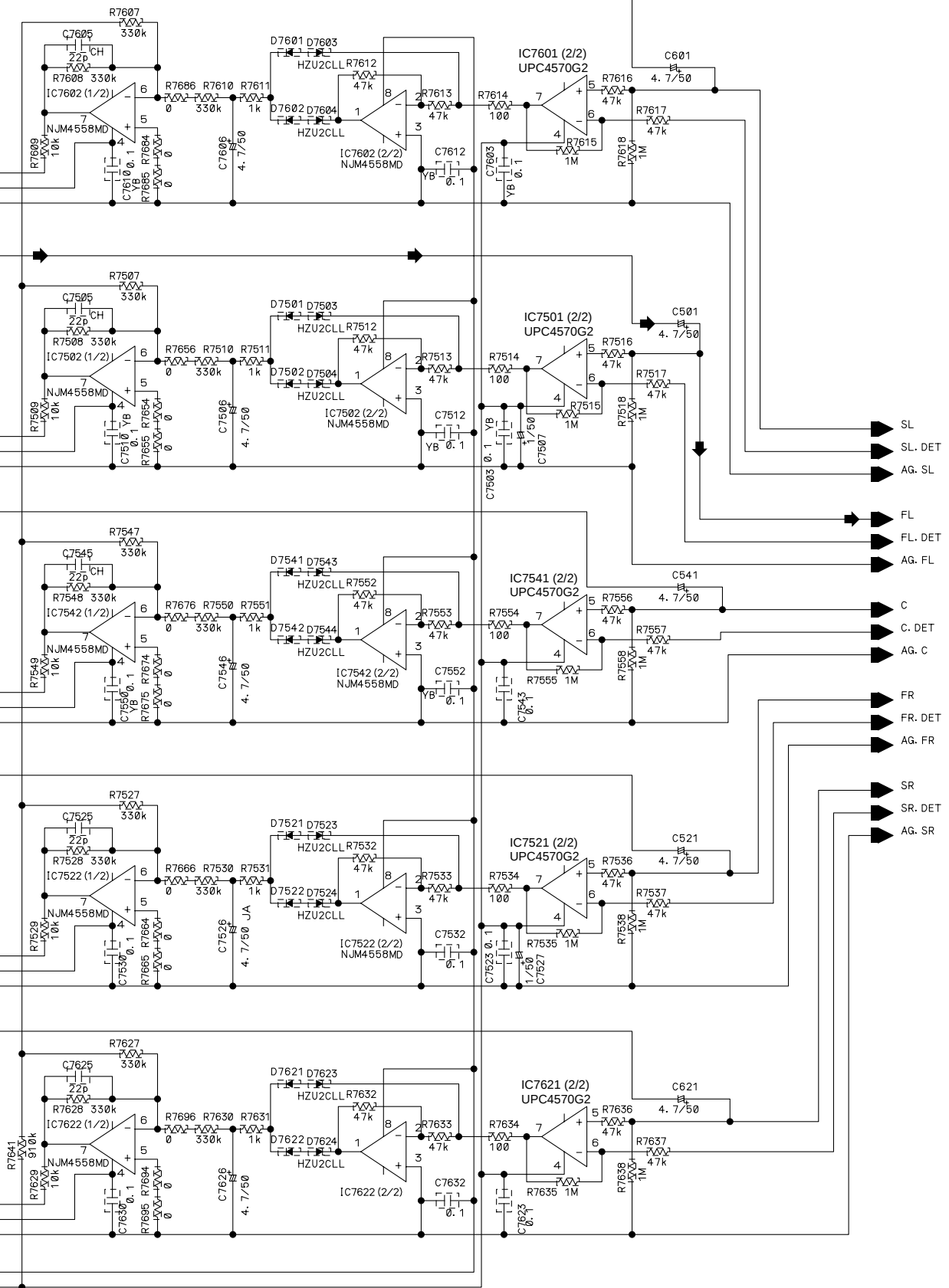
D2/3F 17

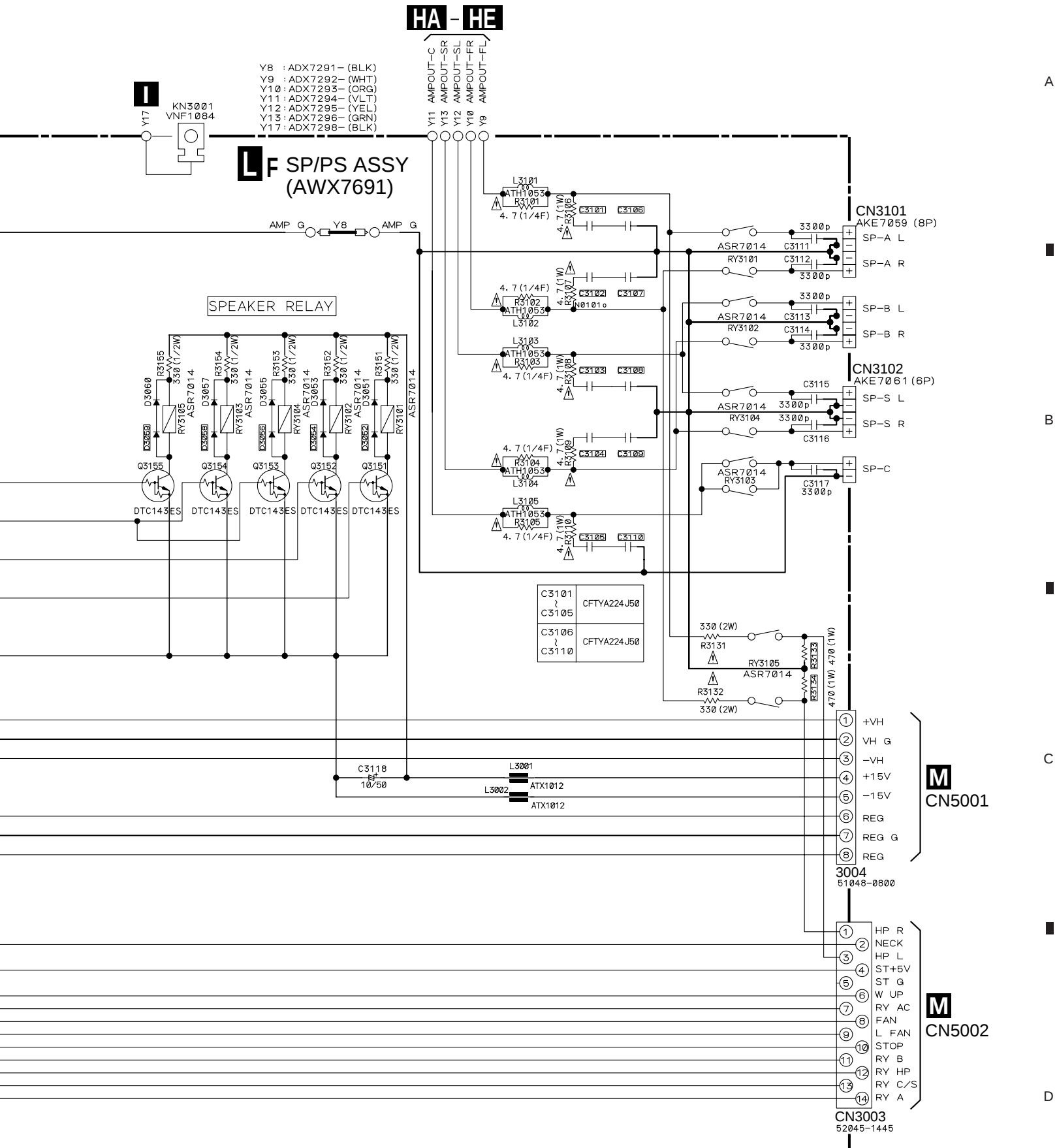
3.4 MAIN CONTROL ASSY (3/3)



MAIN CHANNEL LIMITER

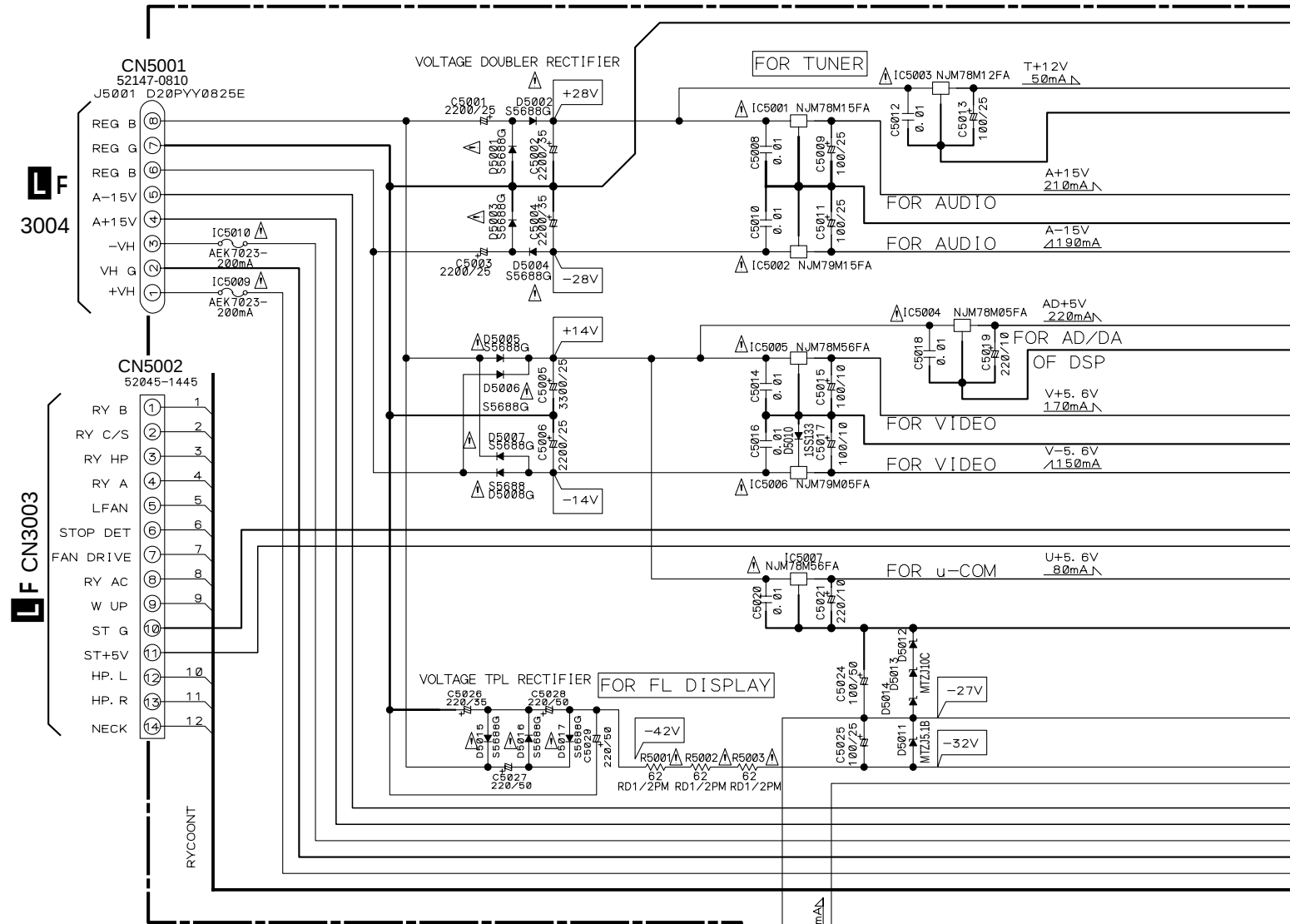
➡: AUDIO SIGNAL ROUTE



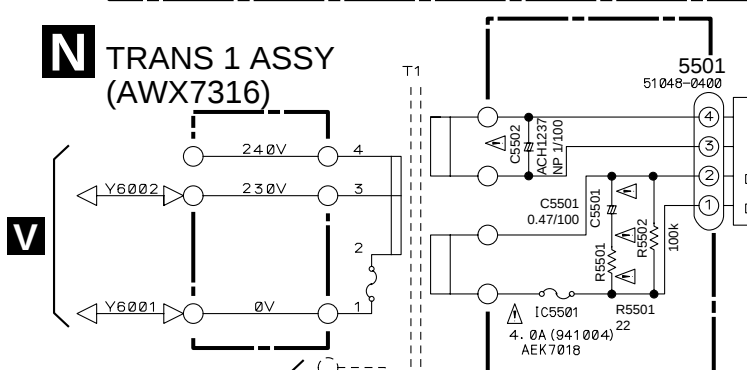


3.7 REGULATOR, TRANS 1 and TRANS 2-2 ASSYS

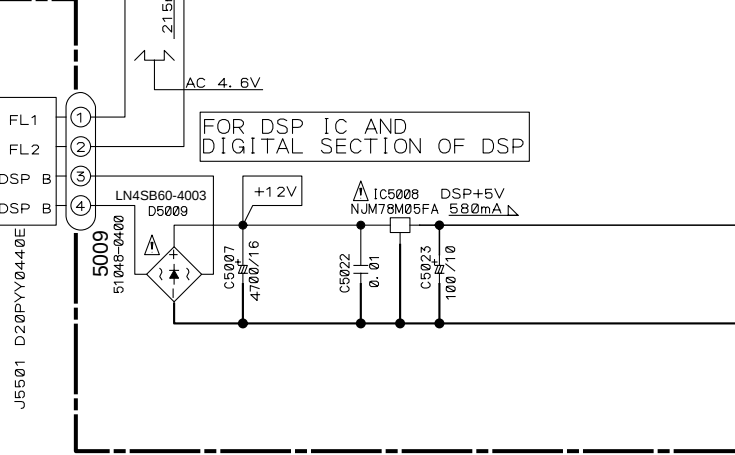
M REGULATOR ASSY (AWX7310)



N TRANS 1 ASSY (AWX7316)



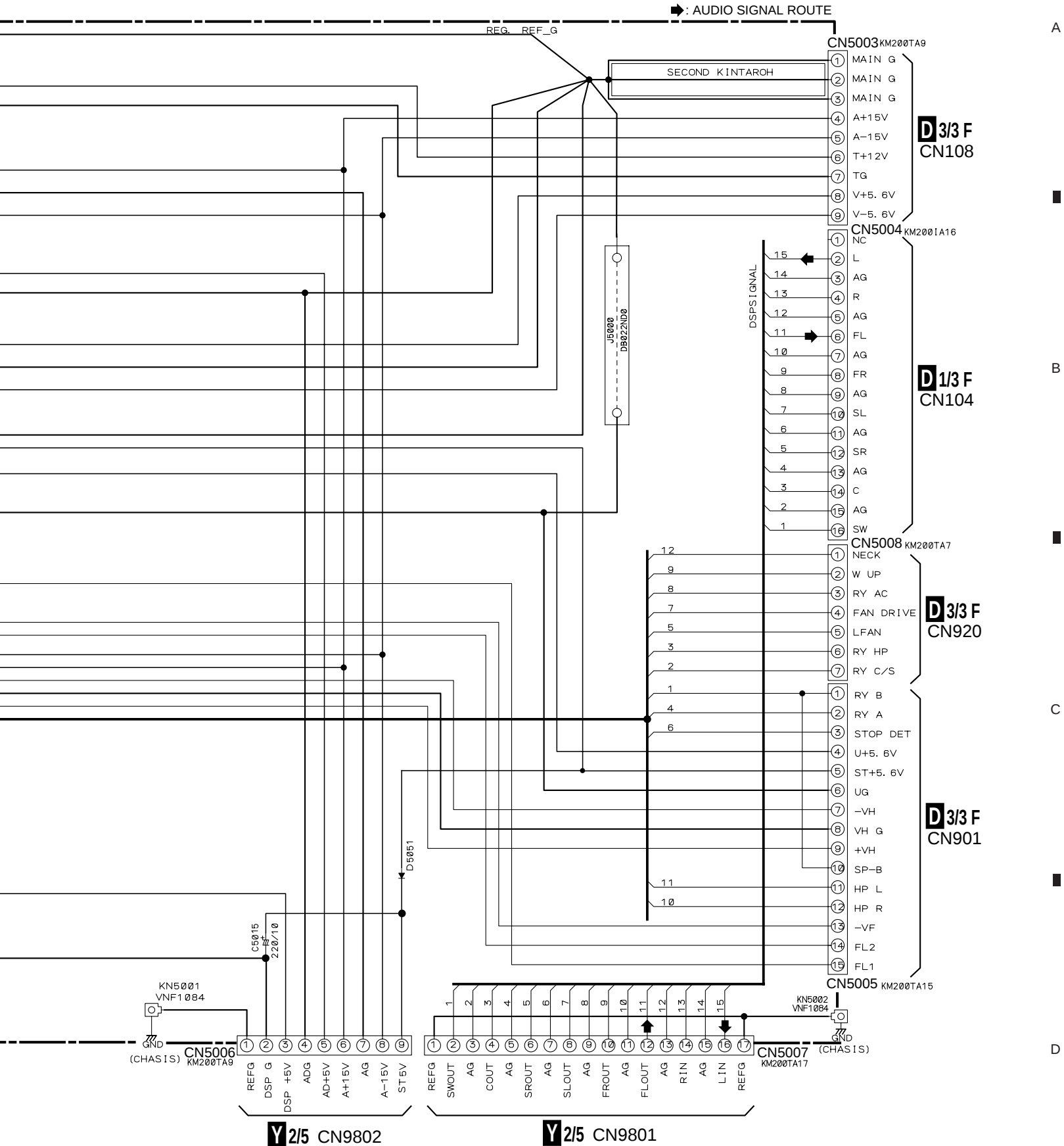
TRANS 2-2 ASSY (AWX7518)



CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.200 MFD, BY LITTELFUSE INC. FOR IC5009, IC5010 (AEK7023).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.005 MFD, BY LITTELFUSE INC. FOR IC5501 (AEK7019).

POWER TRANSFORMER

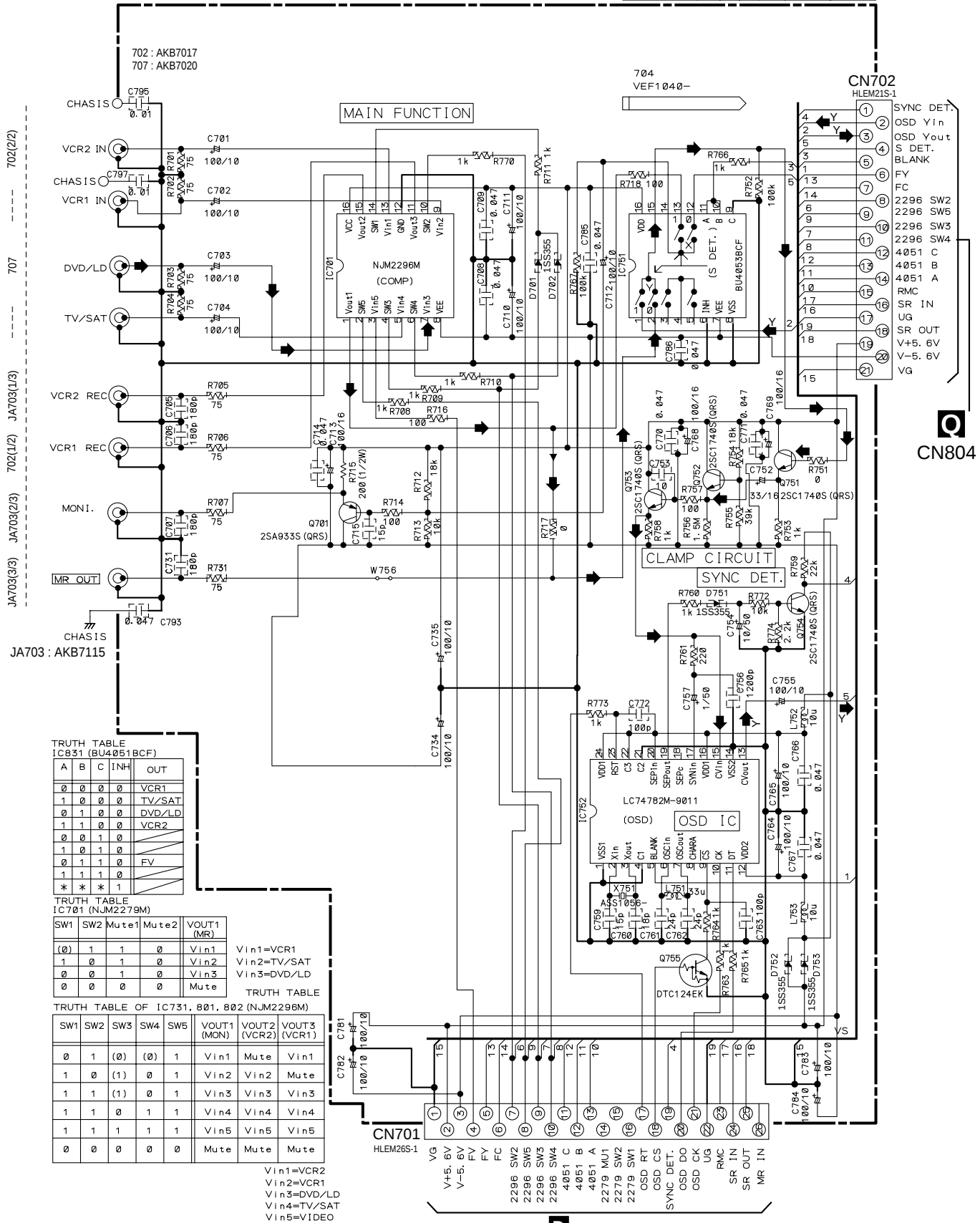


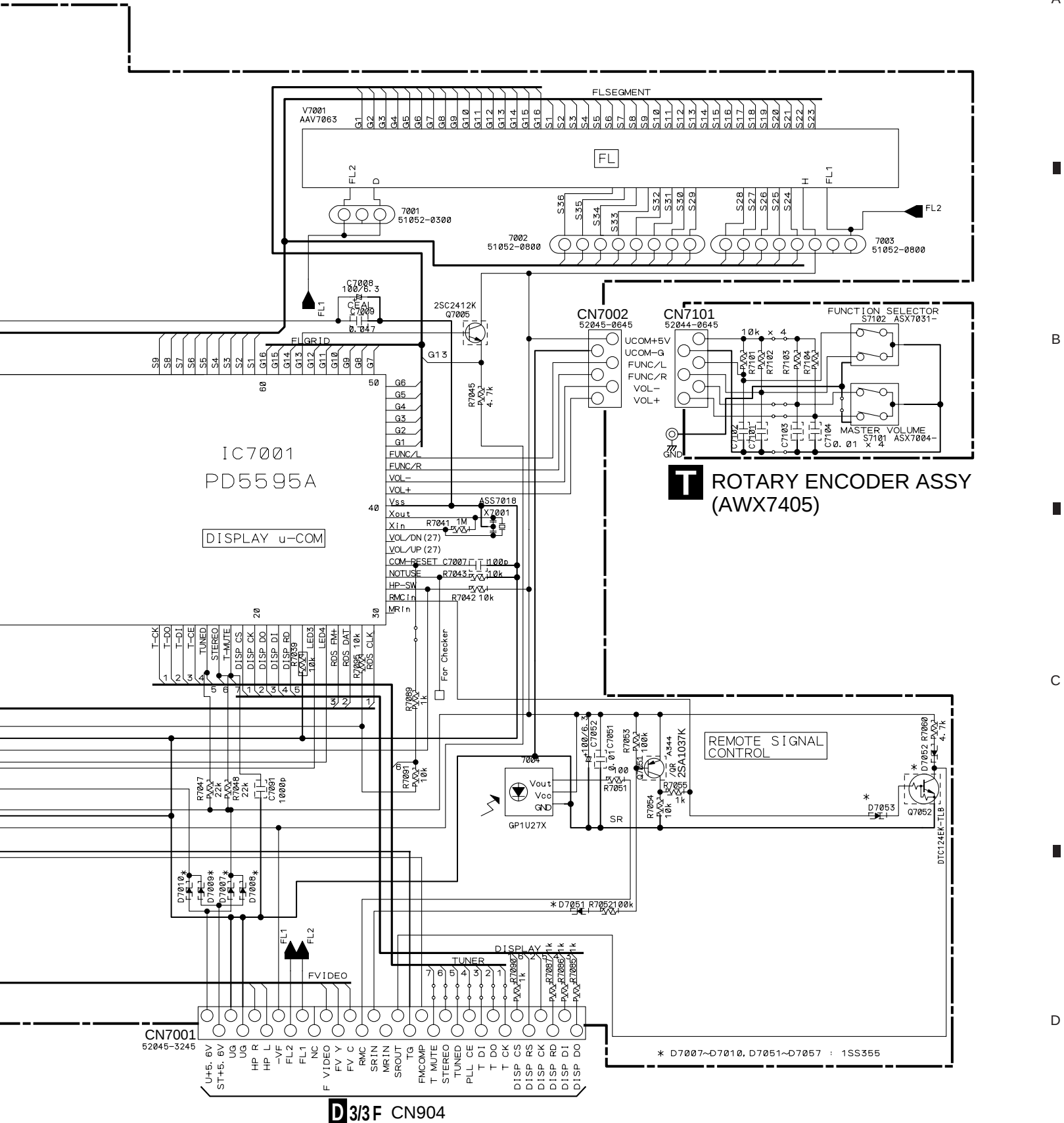
3.8 VIDEO, PRIMARY and P-SW ASSYS

VIDEO ASSY (AWX7677)

TRUTH TABLE OF IC751 (BU4053BCF)

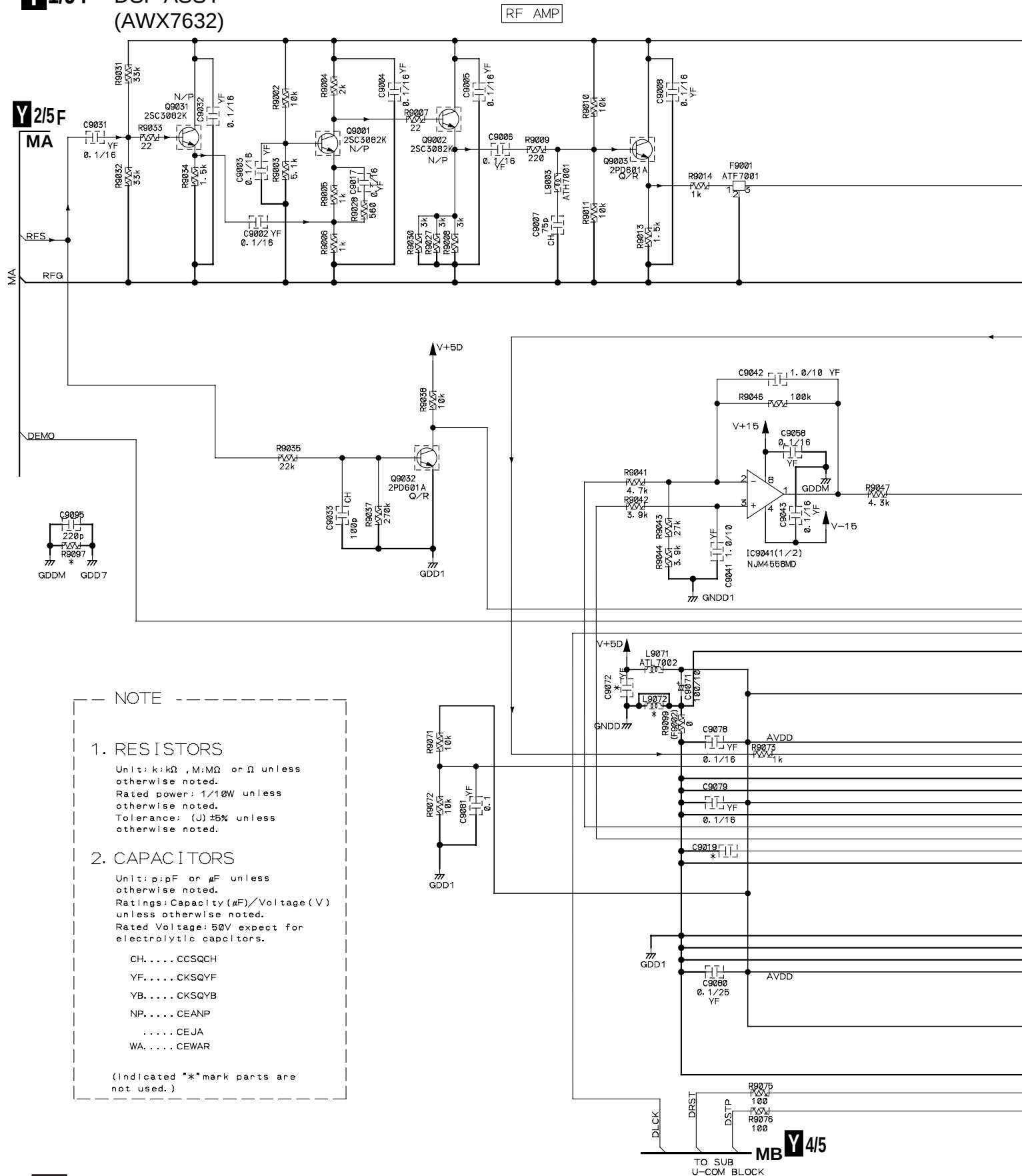
CONDITION	A	B	C	INH	X OUT	Y OUT
S NOT USED	0	0	0	0	1X	1Y
S USED	1	1	0	0	0X	0Y

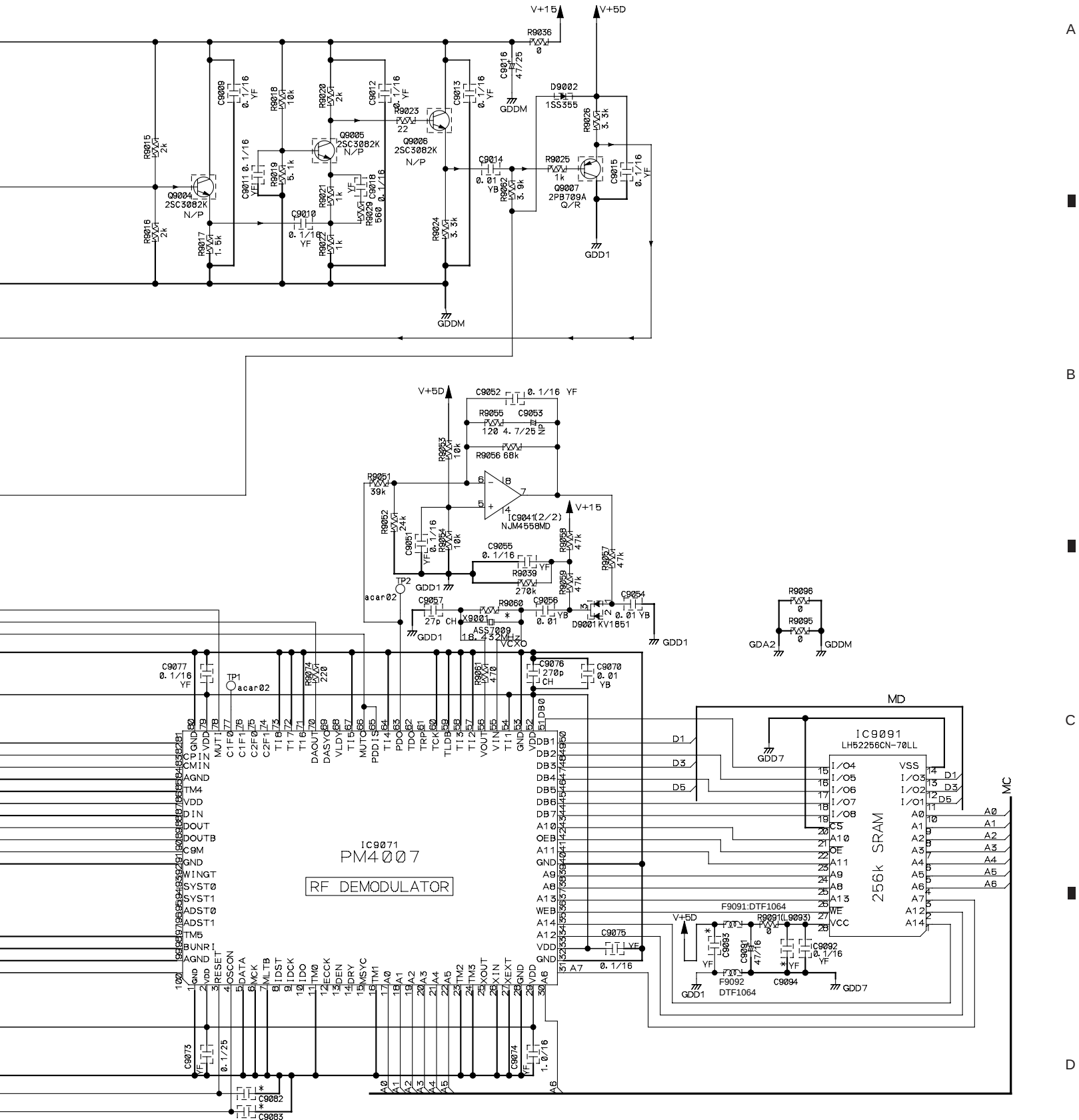




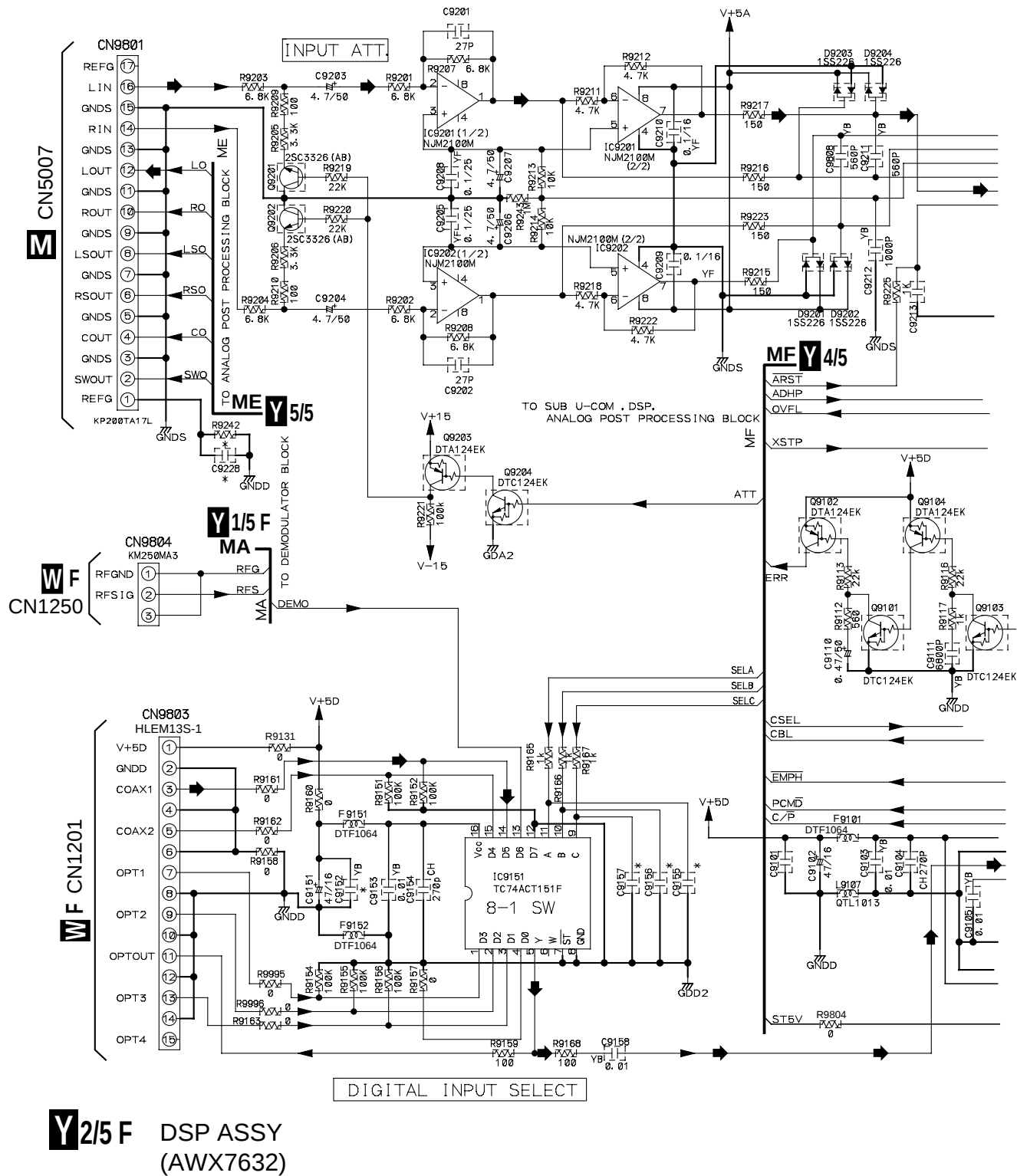
3.10 DSP ASSY (1/5)

Y1/5 F DSP ASSY
(AWX7632)



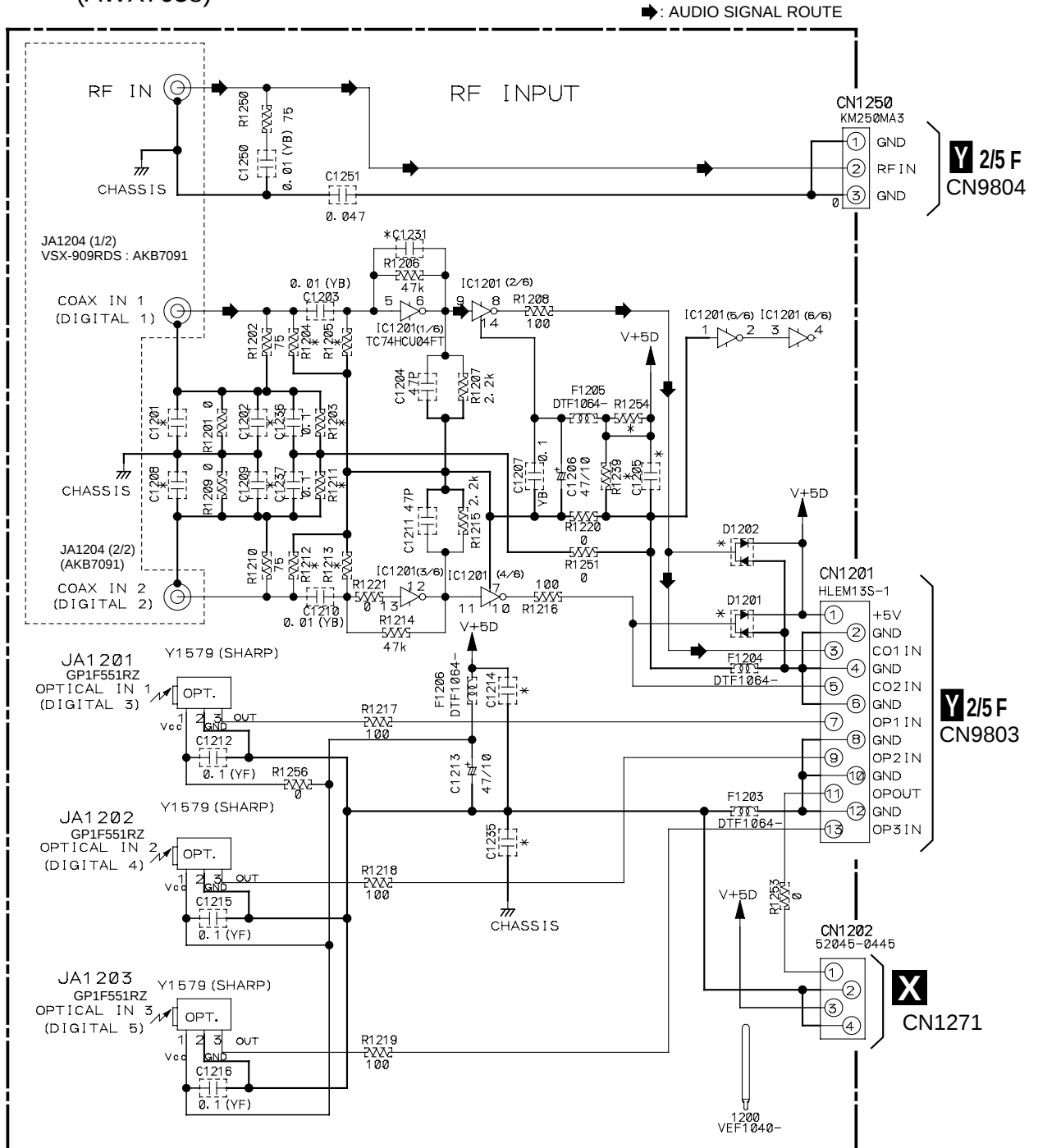


3.11 DSP ASSY (2/5)



: The power supply is shown with the marked box.

3.12 RF/DIGITAL INPUT ASSY

WF RF / DIGITAL INPUT ASSY
(AWX7638)


4. REMOTE CONTROL UNIT [AXD7258, AXD7279]

4.1 CONTRAST OF MISCELLANEOUS PARTS

NOTES :

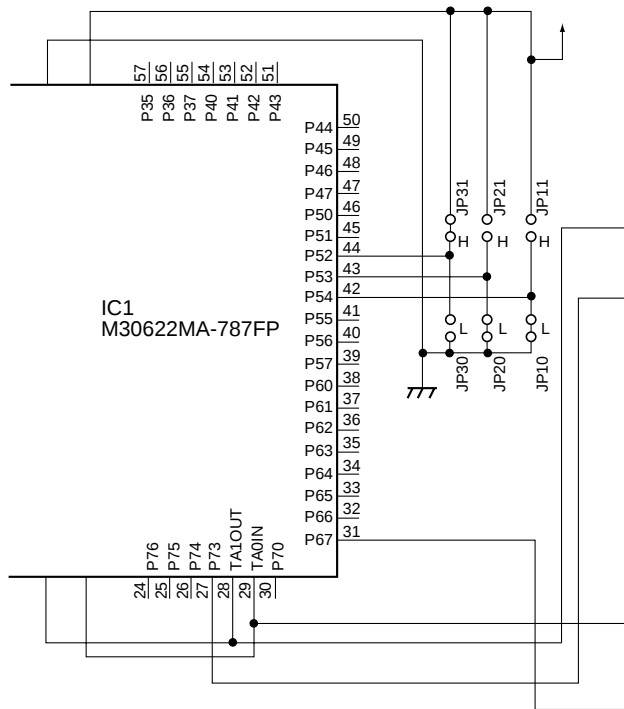
- Parts marked by “ NSP ” are generally unavailable because they are not in our Master Spare Parts List.
- The $\triangle$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to ∇ mark on the product are used for disassembly.
- Reference Nos. indicate the pages and Nos. in the service manual for the base model.

■ CONTRAST OF AXD7278, AXD7258 AND AXD7279

AXD7278, AXD7258 and AXD7279 are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			AXD7278	AXD7258	AXD7279	
P104-3		Rubber Sheet	AZA7387	AZA7390	AZA7390	(AZA7399:Goid)
P104-8		Battery Cover	AZA7841	AZA7841	AZA7791	
P104-10		Case B	AZN7781	AZN7781	AZN7793	
P104-13		Knob	AZA7398	AZA7398	AZA7399	
P104-15		Caae A Assy	AZA7847	AZA7849	AZA7850	

■ REMOTE PCB MODEL SWITCH



MODEL SWITCH

Model	JP10	JP11	JP20	JP21	JP30	JP31
AXD7257, AXD7278	—	○	—	○	—	○
AXD7258, AXD7279	—	○	—	○	○	—
AXD7259	—	○	○	—	—	○
AXD7266	—	○	○	—	○	—
AXD7273	○	—	—	○	—	○
AXD7275	○	—	—	○	○	—