

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 \blacktriangledown 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	→	56 x 10 ¹	→	561	.....	RD1/4PU	$\boxed{5}$ $\boxed{6}$ $\boxed{1}$ \boxed{J}
47k	→	47 x 10 ³	→	473	.....	RD1/4PU	$\boxed{4}$ $\boxed{7}$ $\boxed{3}$ \boxed{J}
0.5	→	R50	.....			RN2H	\boxed{R} $\boxed{5}$ $\boxed{0}$ \boxed{K}
1	→	1R0	.....			RS1P	$\boxed{1}$ \boxed{R} $\boxed{0}$ \boxed{K}
 - Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k	→	562 x 10 ¹	→	5621	RN1/4PC	$\boxed{5}$ $\boxed{6}$ $\boxed{2}$ $\boxed{1}$ \boxed{F}
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■ 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	

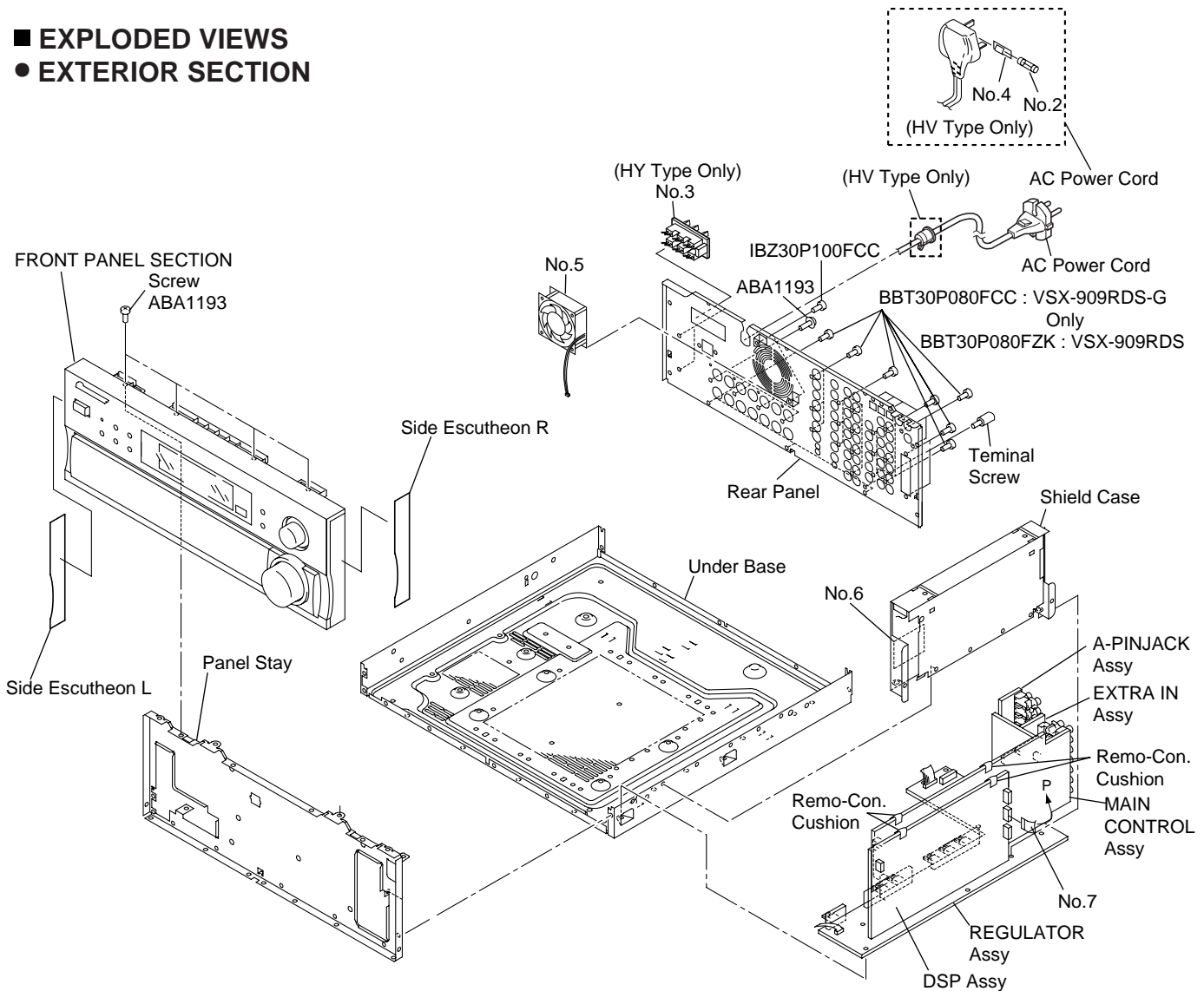
Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D909S /KU/CA	VSX-909RDS /HY	VSX-909RDS /HV	VSX-909RDS-G /HY	
PACKING SECTION							
P3- 4	NSP	Remote Control Unit	AXD7278	AXD7258	AXD7258	AXD7279	
P3- 9		Packing Case	AHD7883	AHD7887	AHD7887	AHD7888	
P3-12		Warranty Card	ARY7045	ARY7022	ARY7022	ARY7022	
EXTERIOR SECTION							
P5-20	⚠	AC Power Cord	ADG7024	ADG7029	VDG1063	ADG7029	
P5-21	⚠	Power Transormer	ATS7252	ATS7253	ATS7253	ATS7253	
P5-22		FM/AM TUNER Unit	AXX7046	AXX7048	AXX7048	AXX7048	
P5-23	⚠	Fuse (FU1:)	VEK1029 (10A)	AEK-514 (T4A)	AEK-514 (T4A)	AEK-514 (T4A)	
P5-24	⚠	Fuse (FU4, FU5:)	REK1079 (2.5A)	AEK-511 (T2.0A)	AEK-511 (T2.0A)	AEK-511 (T2.0A)	
P5-26		AC Cord Spacer	Not used	ANG1153	Not used	ANG1153	
P5-26		Cord Stopper	CM-22C	Not used	CM-22B	Not used	
P5-27		Bonnnet Case	AZN7789	AZN7860	AZN7860	AZN7861	
P5-54		Rear Panel	ANC7946	ANC7952	ANC7951	ANC7953	
P5-58		Side Escutheon L	AAK7633	AAK7660	AAK7660	AAK7662	
P5-59		Side Escutheon R	AAK7634	AAK7661	AAK7661	AAK7663	
	⚠	Fuse (T5A)	Not used	Not used	PEK1003	Not used	No. 2
	⚠	AC Socket 3P	Not used	AKP-502	Not used	AKP-502	No. 3
		Fuse Holder	Not used	Not used	VKR1003	Not used	No. 4
	⚠	Fan Motor	Not used	AXM7012	AXM7012	AXM7012	No. 5
		Sheet	Not used	AED7035	AED7035	AED7035	No. 6
		2P Shield with Housing (J24)	Not used	ADX7250	ADX7250	ADX7250	No. 7
HEAT SINK SECTION							
	⚠	Thermistor	Not used	AEX7004	AEX7004	AEX7004	No. 8
FRONT PANEL SECTION							
P9- 4		Door Hinge L	AMR7252	AMR7252	AMR7252	AMR7325	
P9- 5		Door Hinge R	AMR7253	AMR7253	AMR7253	AMR7326	
P9- 7		Door Panel	ANB7624	ANB7241	ANB7241	ANB7239	
P9- 9		Door Plate	AAH7024	Not used	Not used	Not used	
P9-10		Door Sheet	AAK7790	AAK7791	AAK7791	AAH7068	
P9-11		Display Panel	AAK7625	AAK7795	AAK7795	AAK7792	
P9-13		Power Button	AAD7440	AAD7440	AAD7440	AAD7485	
P9-14		MR Button	AAD7514	AAD7514	AAD7514	AAD7589	
P9-20		Damper Assy	AXA7078	AXA7076	AXA7076	AXA7076	
P9-21		Sub Panel	AMB7617	ANB7200	ANB7200	ANB7207	
P9-22		Volume Ring	AAK7623	AAH7028	AAH7028	AAH7016	
P9-24		Door Cusion	AEB7152	AEB7152	AEB7152	AEB7153	
P9-25		Front Panel	AMB7719	ANB7236	ANB7236	ANB7237	
P9-27		Name Plate	PAN1376	PAN1376	PAN1376	PAN1377	
P9-29		FL Sheet	AAK7627	AAK7629	AAK7629	AAK7805	
P9-30		Volume Knob (MASTER)	AAB7193	AAB7199	AAB7199	AAB7210	
P9-31		Rotary Knob (INPUT SELECTOR)	AAB7196	AAB7221	AAB7221	AAB7209	
P9-38		Panel Base	AMB7569	AMB7637	AMB7637	AMB7572	
		Ring Spacer	Not used	AWL7038	AWL7038	AWL7038	
		POWER Button MG	Not used	AAD7442	AAD7442	AAD7491	No. 9 No. 10

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

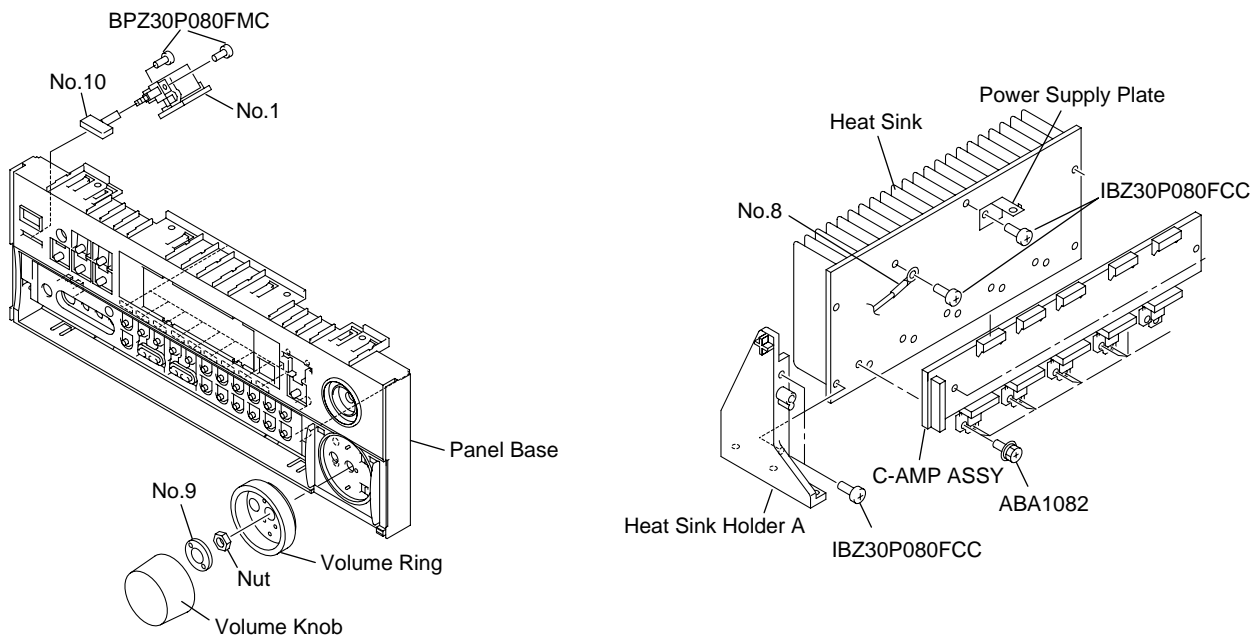
● For PCB ASSEMBLIES, Refer to “CONTRAST OF PCB ASSEMBLIES”, “2. PCB CONNECTION DIAGRAM” and “3. SCHEMATIC DIAGRAM”.

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 C1007,C1008,C1011,C1012,C1015- C1018 R1017, R1018	Not used Not used Not used	CCCSL271J50 CCCSL101J50 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 C1353, C1354 C1355, C1356 C1365, C1366 L1351- L1354 R1353, R1354	Not used Not used Not used CEAT101M16 Not used RD1/4PU331J	CCCSL680J50 CCCSL181J50 CKCYB331K50 CEAT101M25 LAU181J 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 Q7501, Q7521, Q7541, Q7601, Q7621 D7501, D7502, D7521, D7522, D7541, D7542 D7601, D7602, D7621, D7622 D7503, D7504, D7523, D7524, D7543, D7544 D7603, D7604, D7623, D7624 C7505, C7525, C7545, C7605, C7625 C7506, C7526, C7546, C7606, C7626 C7510, C7530, C7550, C7610, C7630 R7504, R7604, R7624 R7507, R7508, R7510, R7527, R7528 R7530, R7547, R7548, R7550, R7607 R7608, R7610, R7627, R7628, R7630 R7524, R7544 R7509, R7529, R7609, R7629, R7549 R7511, R7531, R7551, R7611, R7631 R7512, R7513, R7516, R7517, R7532 R7533, R7536, R7537, R7552, R7553 R7557, R7612, R7616, R7617, R7632 R7633, R7636, R7637, R7556, R7613 R7514, R7534, R7554, R7614, R7634 R7515, R7518, R7535, R7538, R7555 R7558, R7615, R7618, R7635, R7638 R7641 R7653- R7656, R7663- R7666, R7673- R7676 R7683-R7686, R7693-R7696	Not used Not used Not used Not used Not used Not used Not used Not used Not used RS1/10S0R0J Not used Not used Not used Not used RS1/10S0R0J 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 Not used Not used	NJM4558MD 2SC2878 1SS355 1SS355 HZU2CLL HZU2CLL CCSQCH220J50 CEAT4R7M50 CKSQYB104K25 RS1/10S103J RS1/10S334J RS1/10S334J RS1/10S334J RS1/10S103J RS1/10S103J RS1/10S102J RS1/10S473J RS1/10S473J RS1/10S473J RS1/10S473J RS1/10S101J RS1/10S105J RS1/10S105J RS1/10S914J RS1/10S0R0J 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	

LF 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			

OF 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	

PF 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	

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SF DISPLAY ASSY

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

Mark	Symbol and Description	Part No.		Remarks
		AWX7700	AWX7702	
IC7051		TC7W53FU	Not used	
IC7401		Not used	BU1923	
Q7053		FMA1A	Not used	
Q7054		DTC124EK	Not used	
Q7401		Not used	2SA1993	
Q7402		Not used	DTC143ES	
Q7403		Not used	2SC1740S	
D7002		SLR-343DC(NPQ)	SLR-343VR(MNP)	
D7054- D7057		1SS355	Not used	
L7401		Not used	LFA2R2J	
C7053		CKSQYB153K50	Not used	
C7401		Not used	CKSQYB472K50	
C7402		Not used	CEAT2R2M50	
C7403, C7404		Not used	CKSQYB102K50	
C7405		Not used	CEAT101M10	
C7406, C7407		Not used	CCSQCH270J50	
C7408		Not used	CKSQYB561K50	
C7409		Not used	CEAT1R0M50	
R7042		RS1/10S223J	RS1/10S103J	
R7056		RS1/10S223J	Not used	
R7057, R7061		RS1/10S103J	Not used	
R7058		RS1/10S392J	Not used	
R7401, R7407, R7408		Not used	RS1/10S102J	
R7403		Not used	RS1/10S222J	
R7404		Not used	RS1/10S473J	
R7405		Not used	RS1/10S333J	
R7406		Not used	RS1/10S104J	
S7017		Not used	VSG1009	
X7401 (4.332MHz)		Not used	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		ACG7020	AEC7014	AEC7014	
C6006		CEAT470M25	CEAT221M25	CEAT221M25	
R6001		RCN1080	Not used	Not used	
R6002		Not used	RD1/4PU1R0J	RD1/4PU1R0J	
L6003, L6004		Not used	ATX1012	ATX1012	
J6000		Not used	D20PYY0335E	D20PYY0335E	
T6001		ATT7043	ATT7040	ATT7040	
RY6001		ASR7022	ASR1044	ASR1044	
Y6003 AWG18 BOARD IN		Not used	ADX7321	Not used	
Y6004 AWG18 BOARD IN		Not used	ADX7320	Not used	
Y6005 AWG18 BOARD IN		Not used	ADX7319	Not used	
6004		AKP1053	Not used	Not used	
6001		Not used	51048-0300	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 Description	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
-------	---------

CAPACITORS

C6801, C6802	CGCYX103K25
--------------	-------------

OTHERS

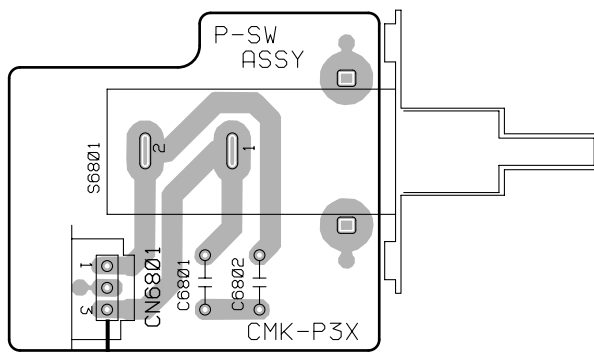
CN6801 3P JUMPER CONNECTOR	52151-0310
----------------------------	------------

2. PCB CONNECTION DIAGRAM

2.1 P- SW ASSY

VA P-SW ASSY

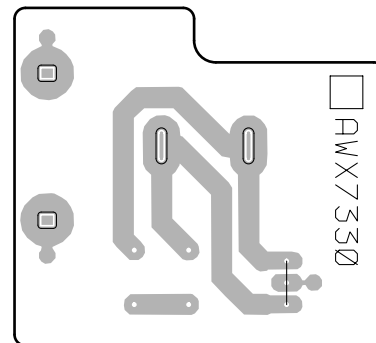
VA P-SW ASSY



(ANP7010-D)

SIDE A

V
J6000



(ANP7010-D)

SIDE B

● **Line Voltage Selection**

Line Voltage can be changed by the following modification:

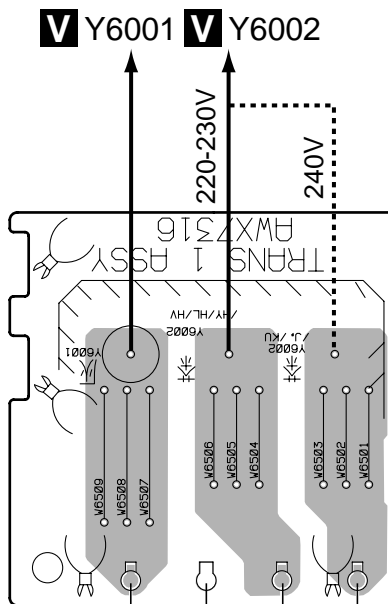
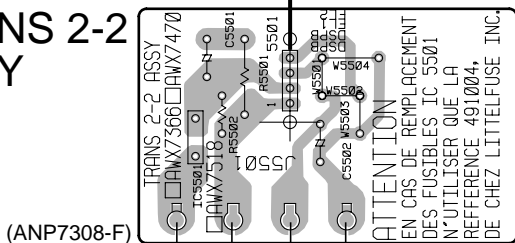
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY (Terminal No. Y6002) to AMP ASSY (Terminal No. Y6002) as follows.

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

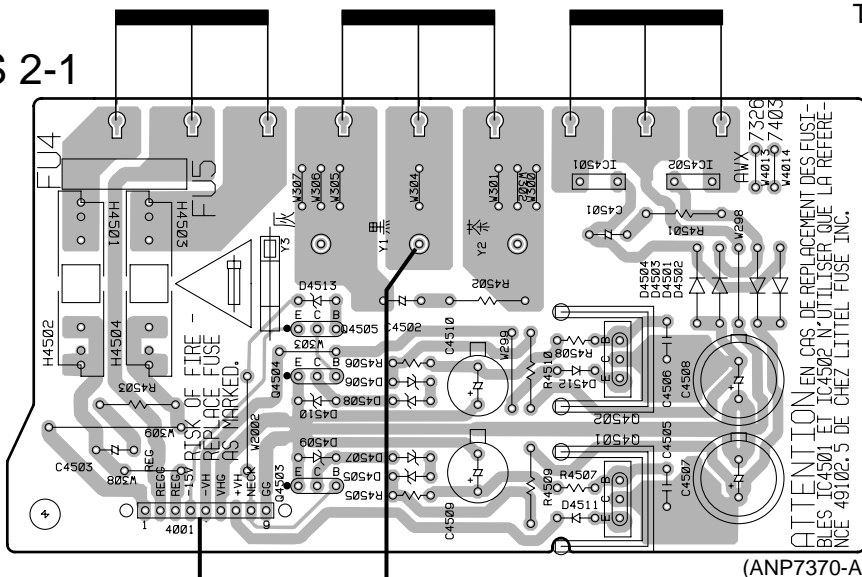
O TRANS 2-2 ASSY



N TRANS 1 ASSY

T1 POWER TRANSFORMER

J TRANS 2-1 ASSY



- IC4501 IC4502
- Q4505 Q4502
- Q4504 Q4502
- Q4503 Q4501

L 3001

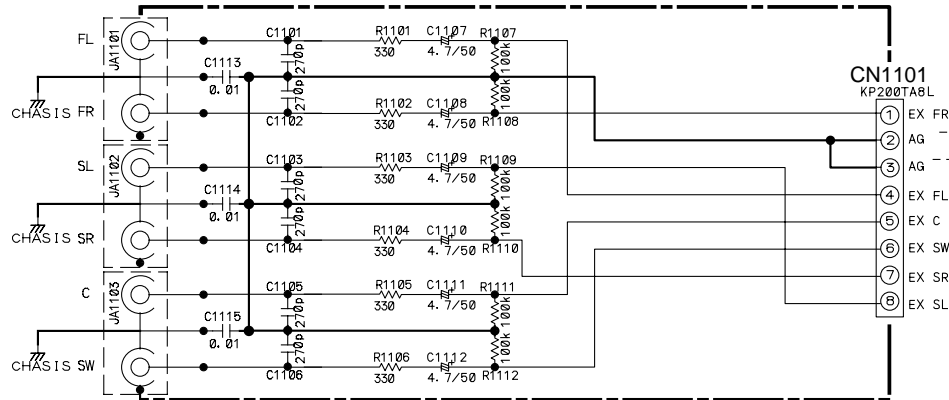
L Y1

3. SCHEMATIC DIAGRAM

3.1 EXTRA IN, A-PINJACK and CONNECTION ASSYS

A F
 EXTRA IN ASSY
 (AWX7413)

JA1101-JA1103
 (AKB7095)

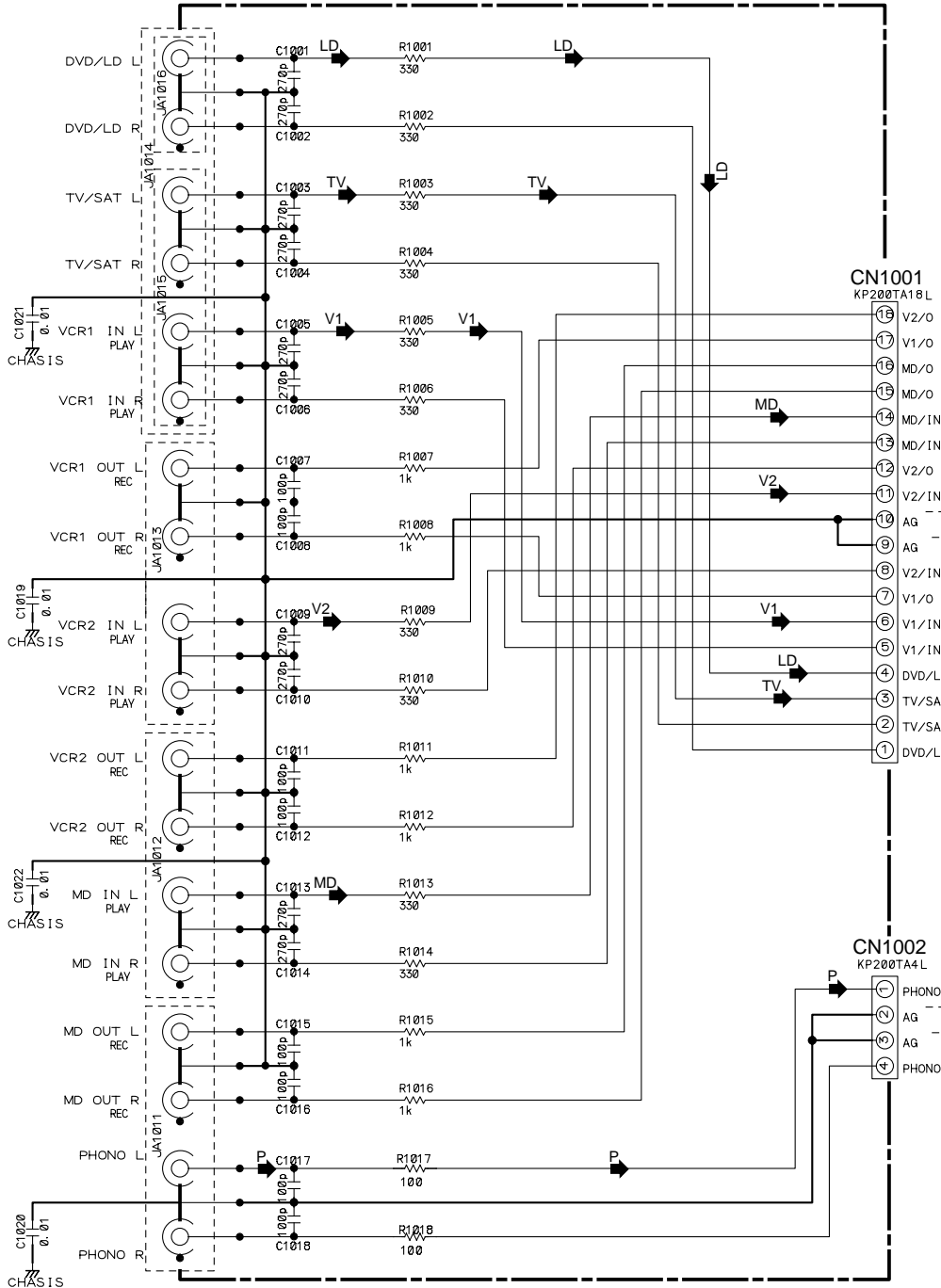


B F
 A-PINJACK ASSY
 (AWX7412)

JN1016: AKB7120

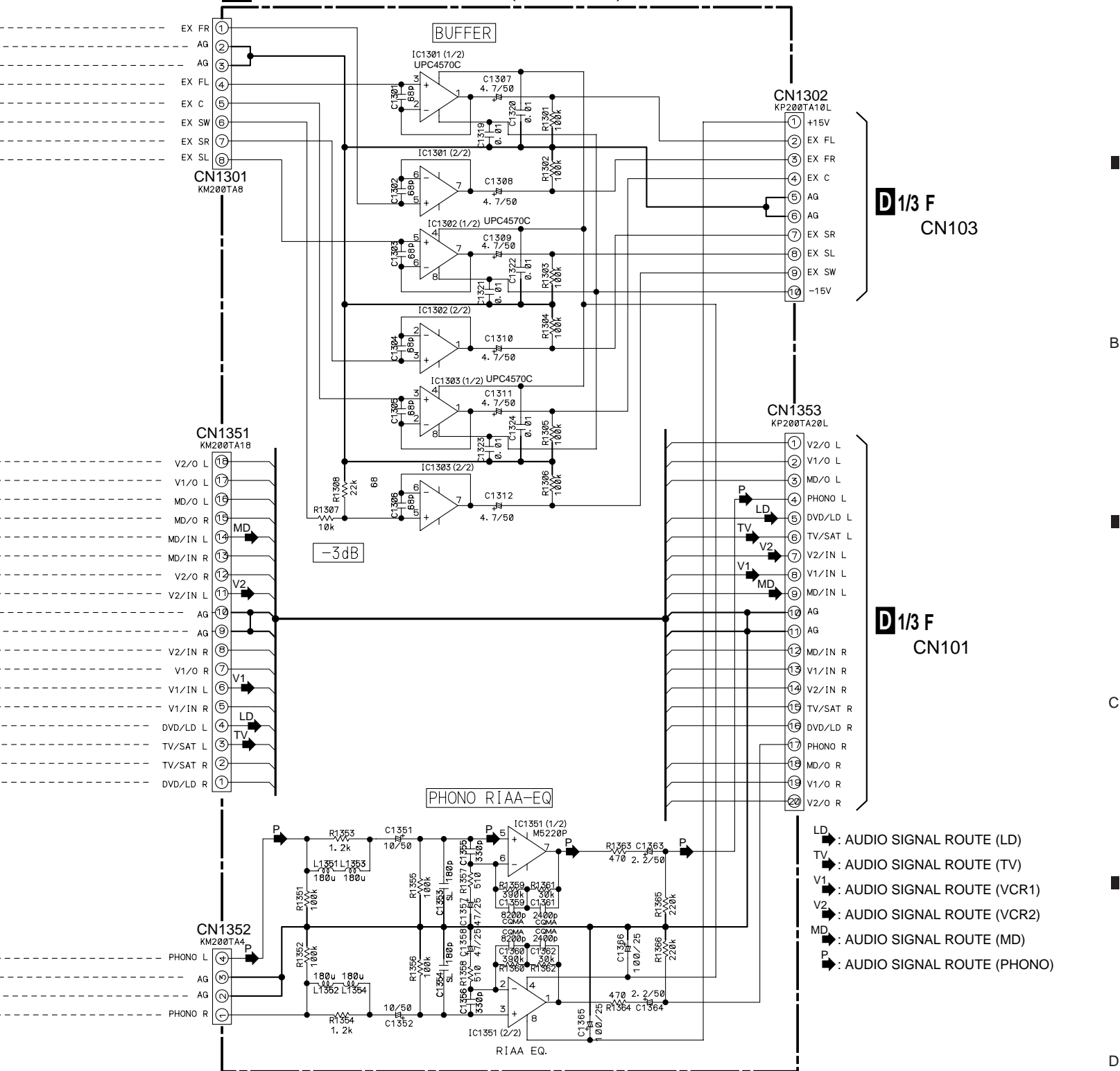
JN1015: AKB7048

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)

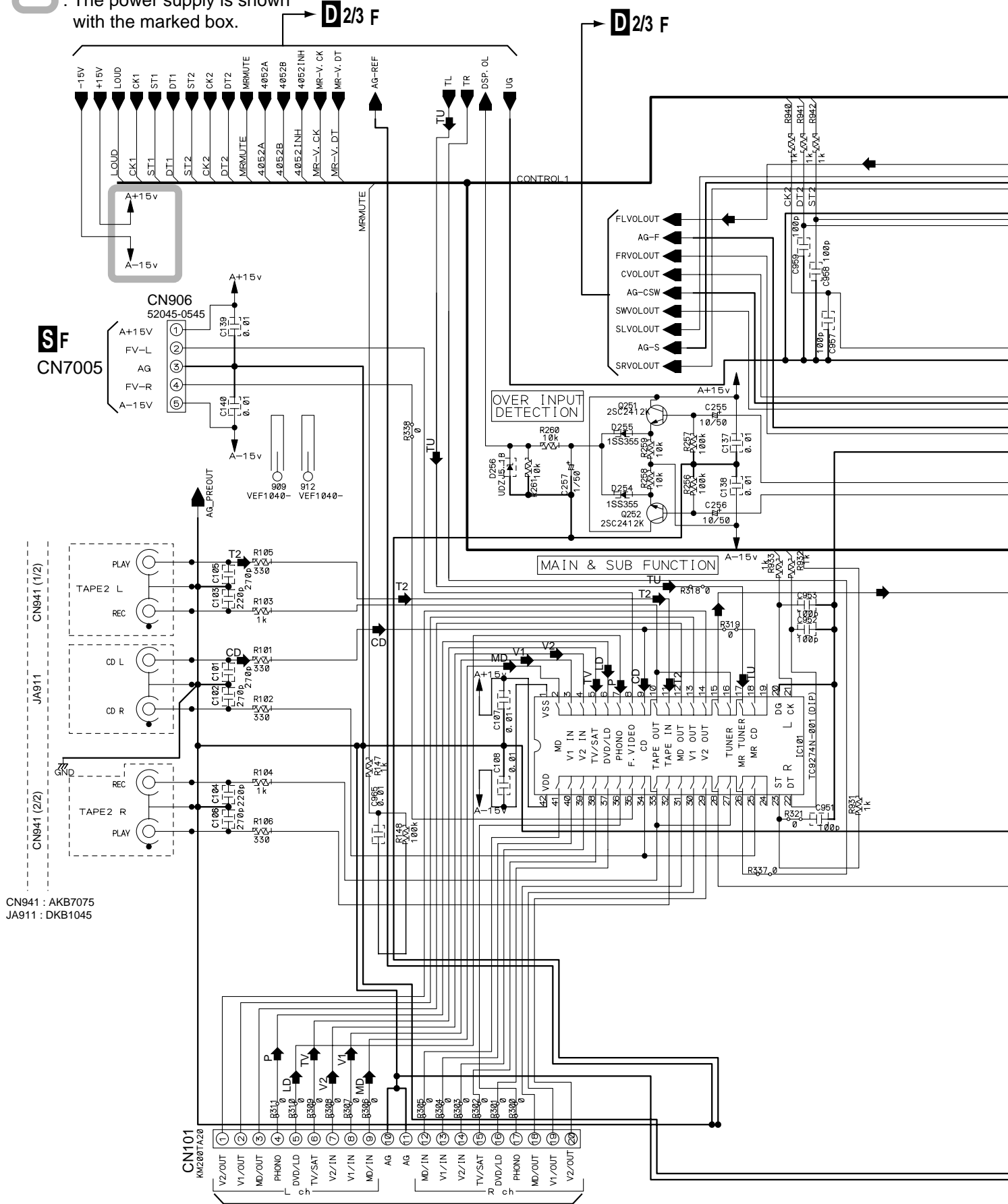
 : The power supply is shown with the marked box.

A

B

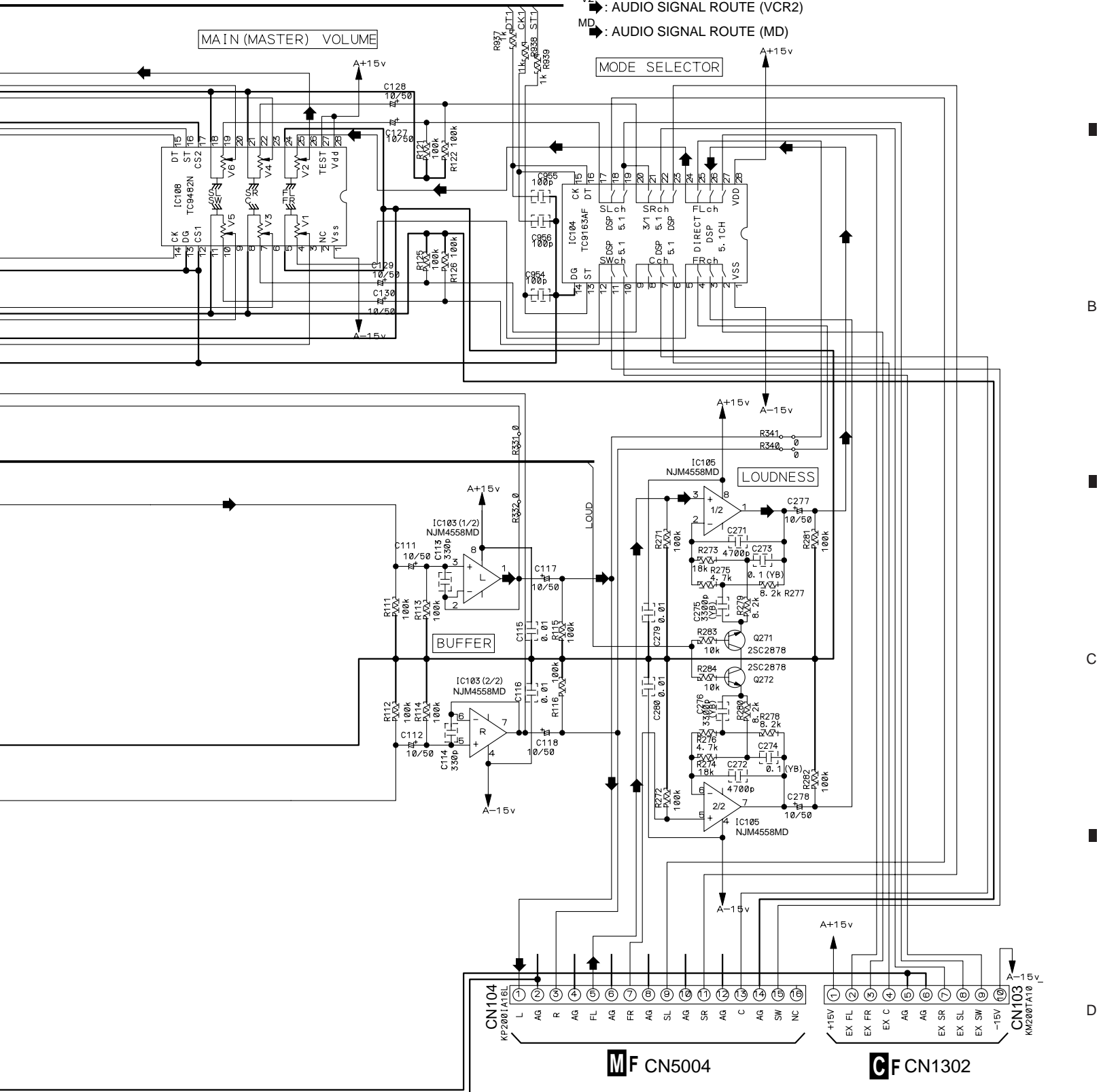
C

D



D1/3 F MAIN CONTROL ASSY (AWX7710)

- ▶ : AUDIO SIGNAL ROUTE
- LD ▶ : AUDIO SIGNAL ROUTE (LD)
- TV ▶ : AUDIO SIGNAL ROUTE (TV)
- V1 ▶ : AUDIO SIGNAL ROUTE (VCR1)
- V2 ▶ : AUDIO SIGNAL ROUTE (VCR2)
- MD ▶ : AUDIO SIGNAL ROUTE (MD)
- P ▶ : AUDIO SIGNAL ROUTE (PHONO)
- TU ▶ : AUDIO SIGNAL ROUTE (TUNER)
- CD ▶ : AUDIO SIGNAL ROUTE (CD)
- T2 ▶ : AUDIO SIGNAL ROUTE (TAPE2)



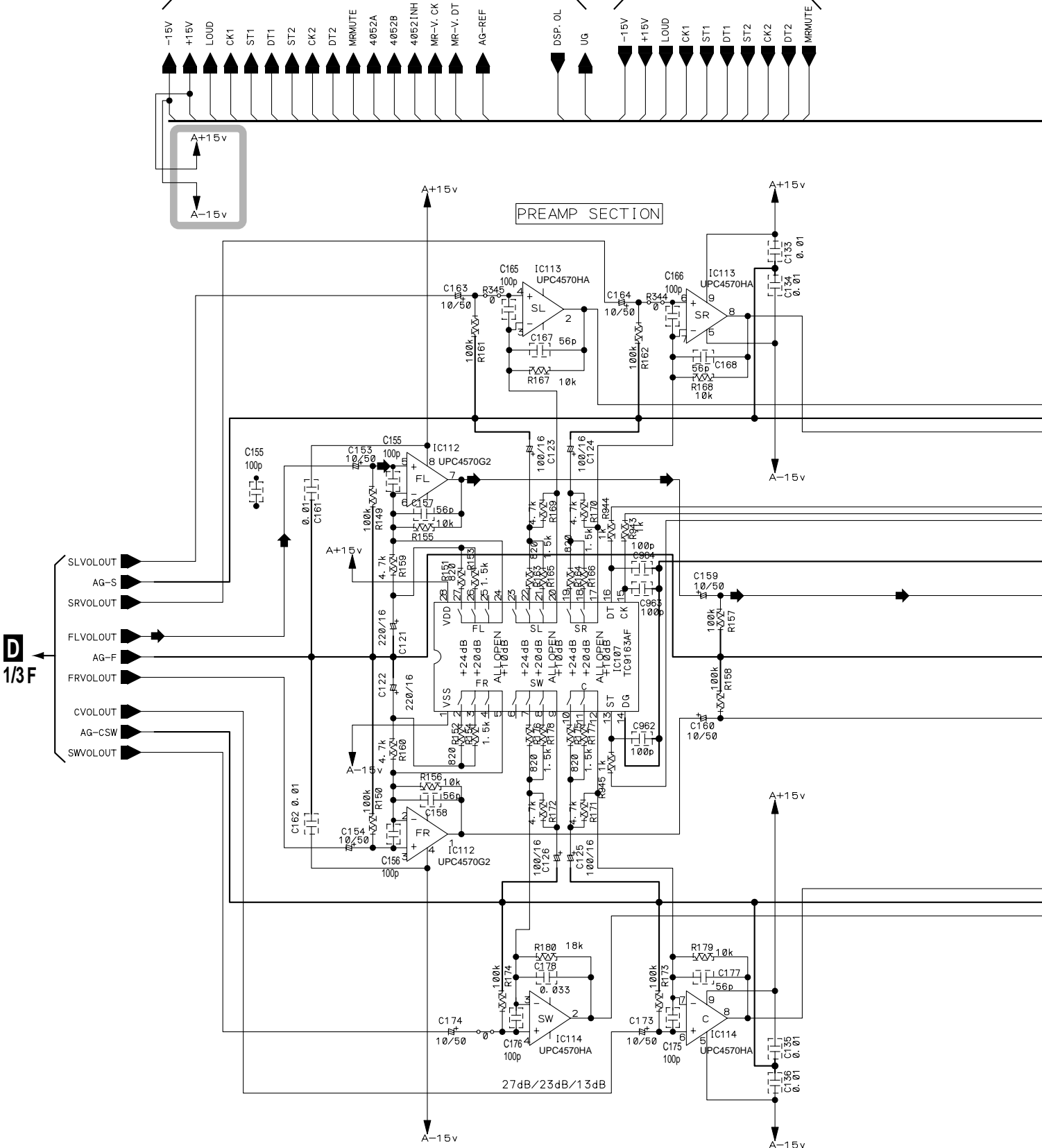
MF CN5004


CF CN1302

3.3 MAIN CONTROL ASSY (2/3)

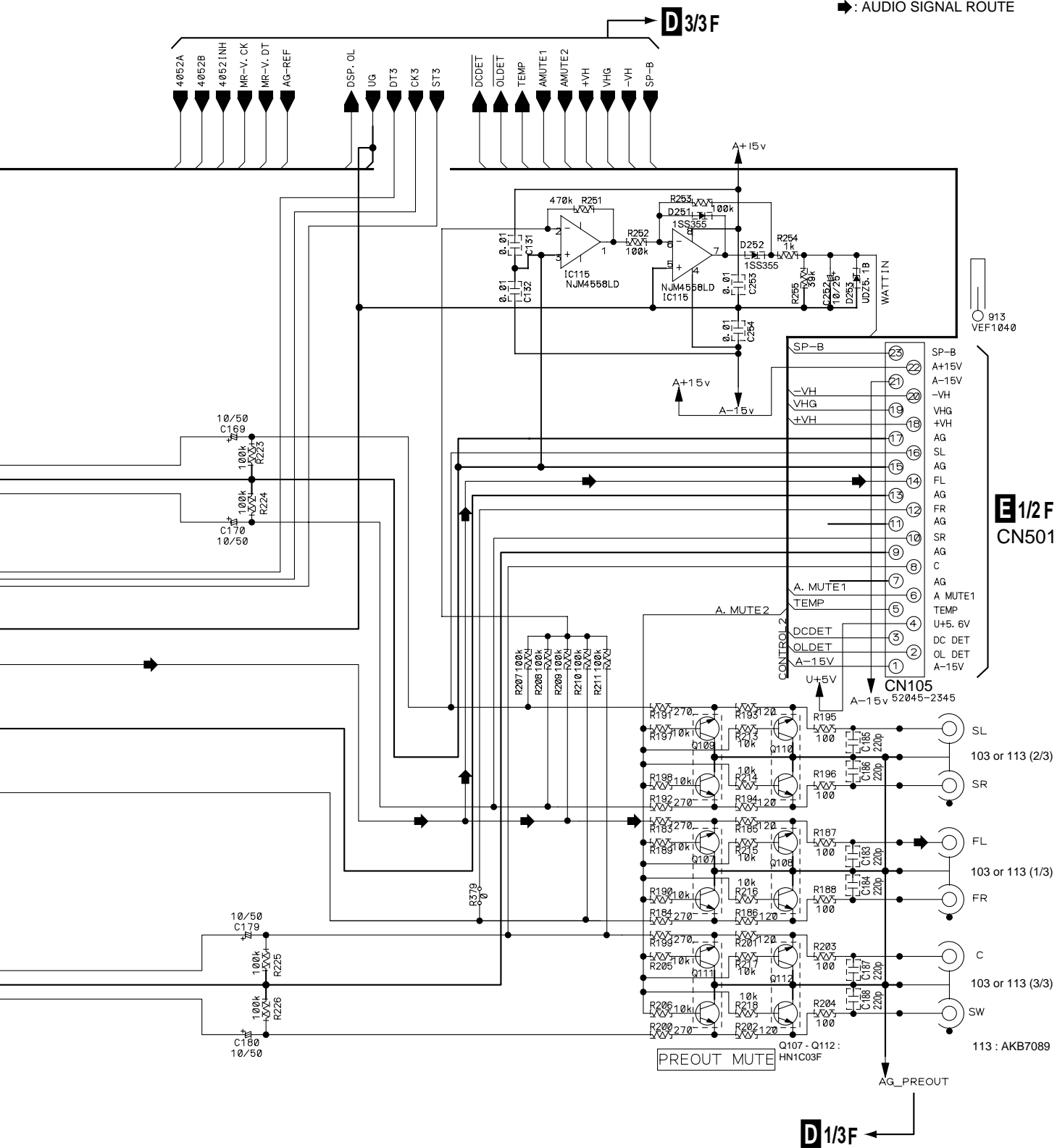
D 2/3 F MAIN CONTROL ASSY
(AWX7710)

D 1/3F ← → **D** 3/3F

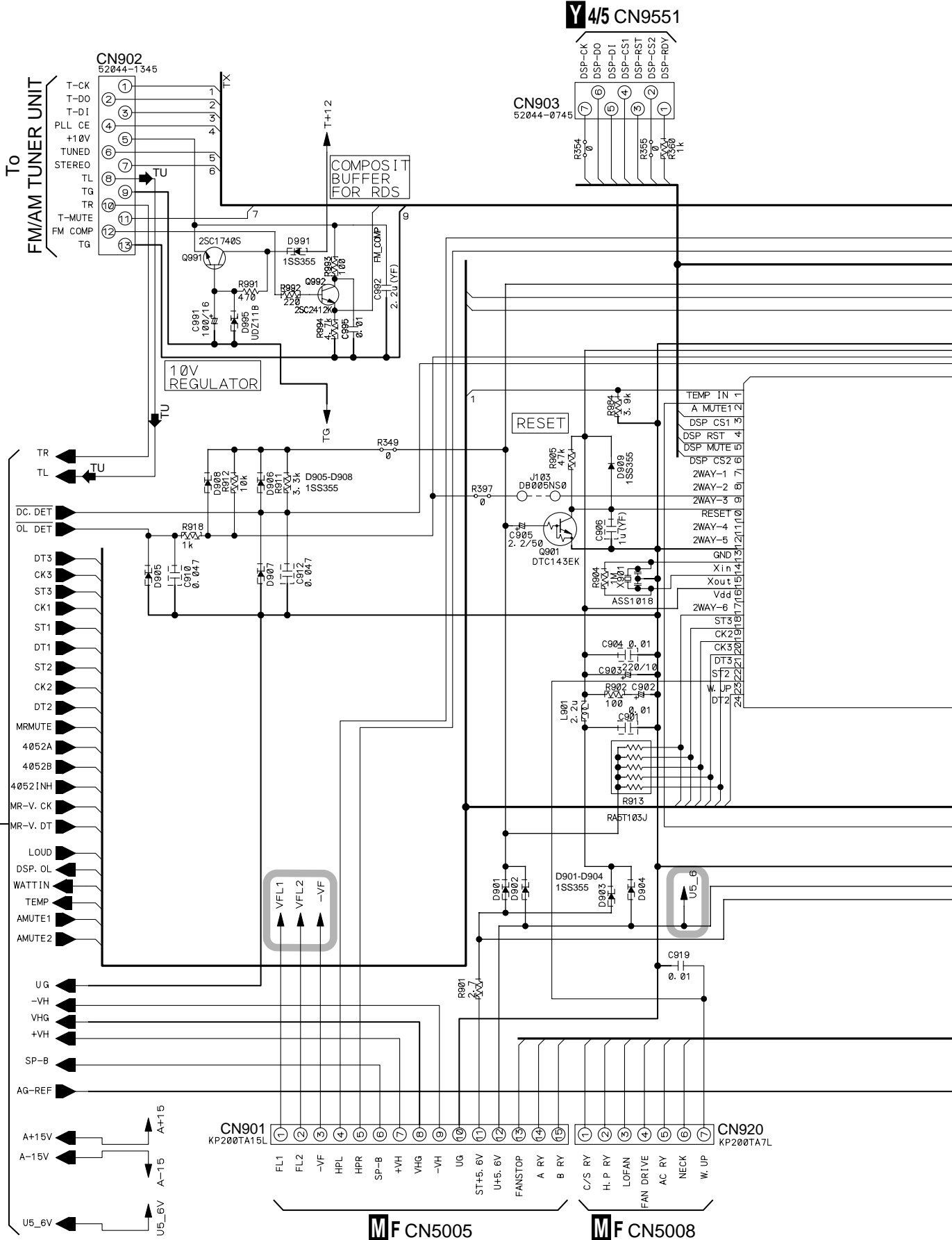



 : The power supply is shown with the marked box.

 : AUDIO SIGNAL ROUTE



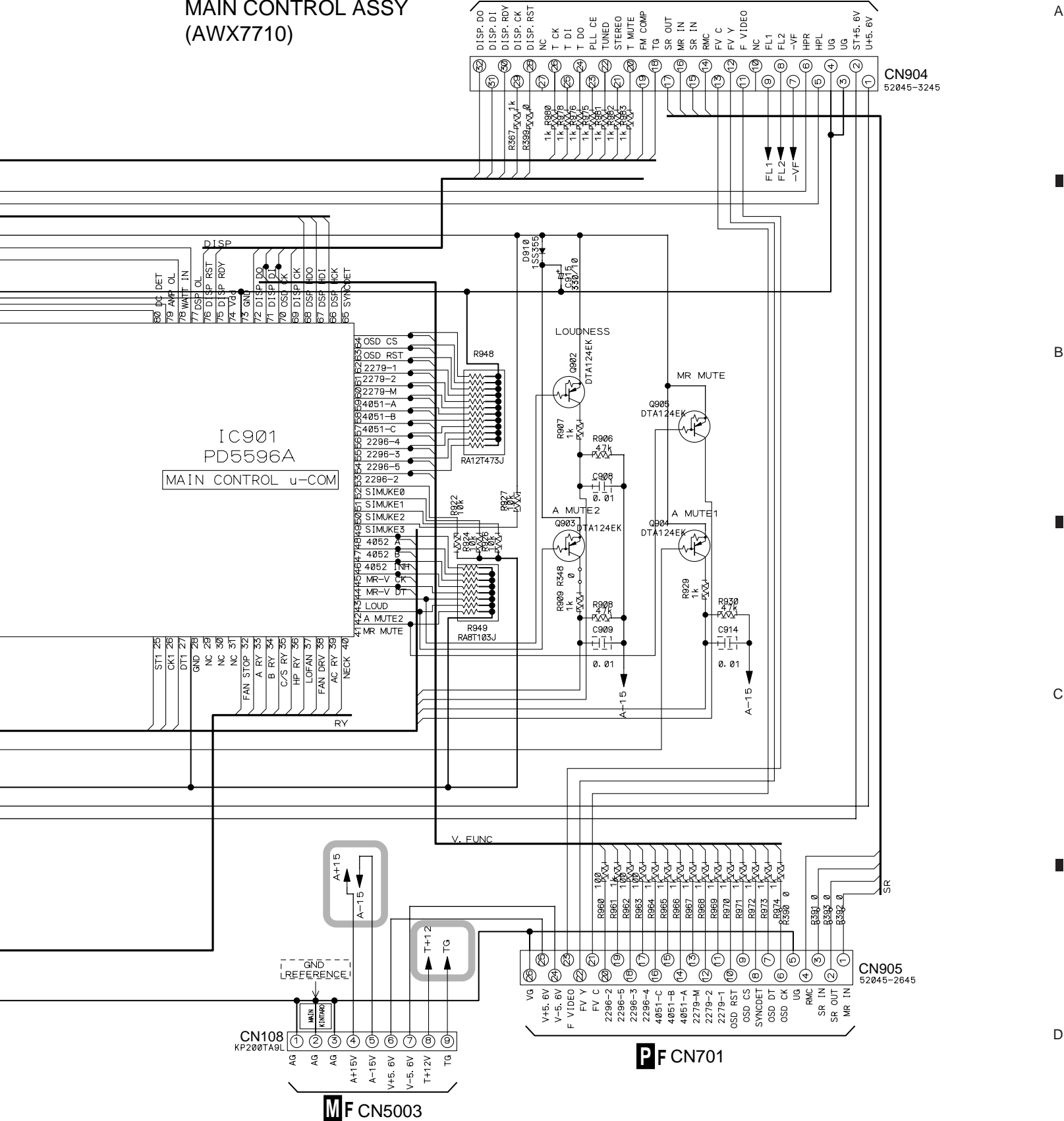
3.4 MAIN CONTROL ASSY (3/3)



 : The power supply is shown with the marked box.

D3/3 F
MAIN CONTROL ASSY
(AWX7710)

SF CN7001



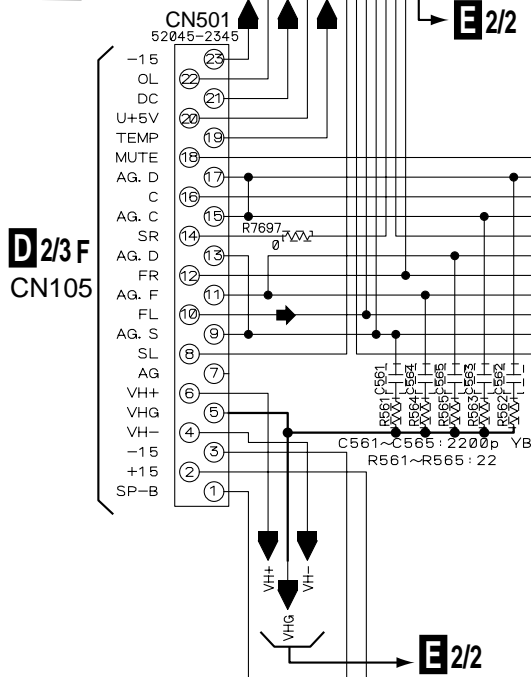
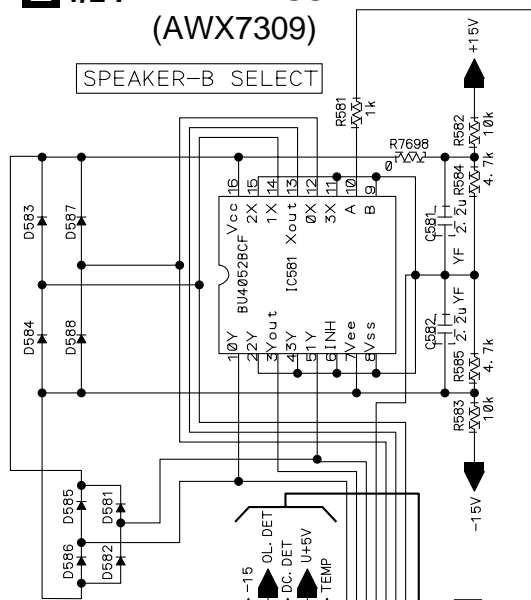
PF CN701

MF CN5003

3.5 V-AMP ASSY (1/2)

E 1/2 F V-AMP ASSY (AWX7309)

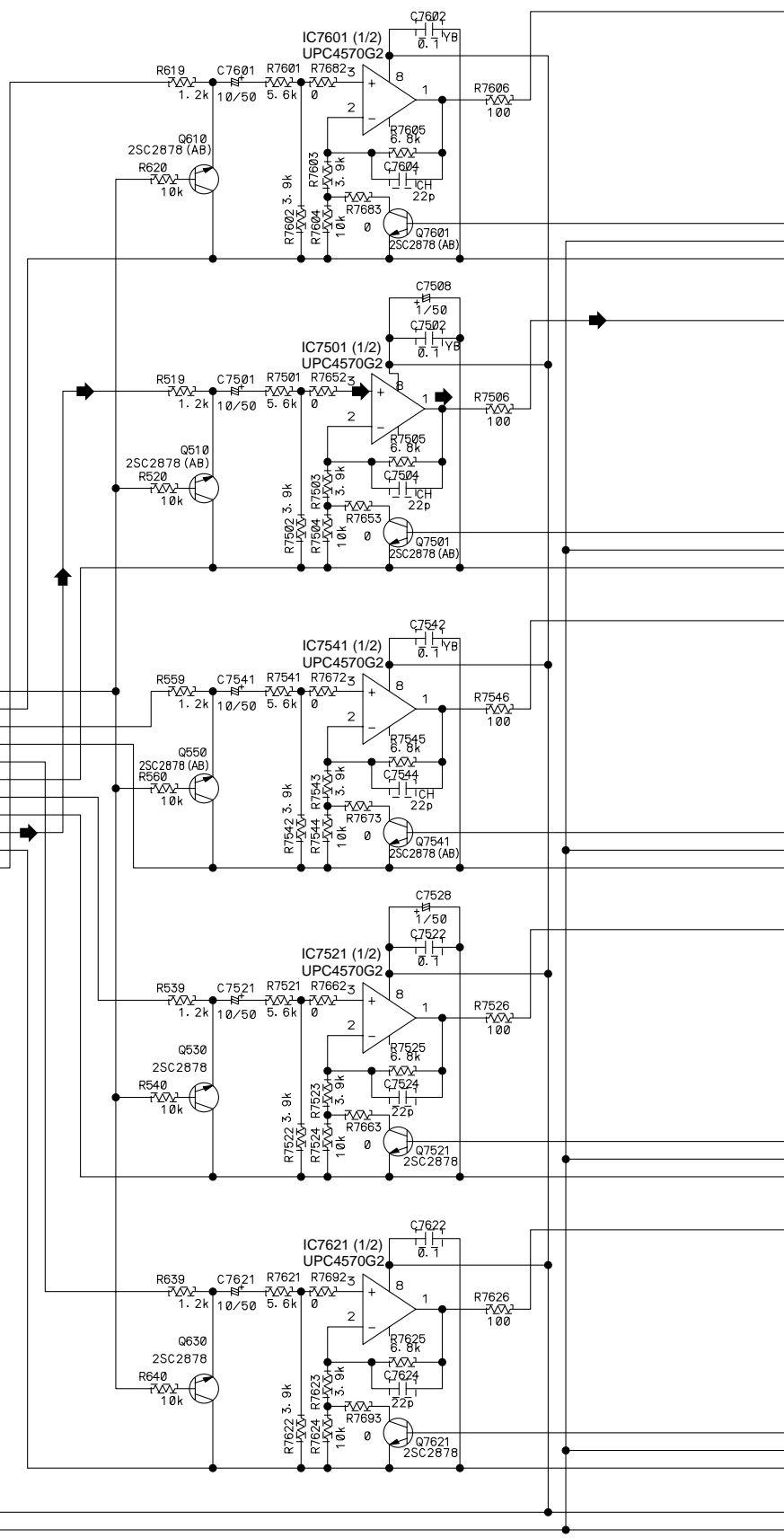
SPEAKER-B SELECT



D 2/3 F CN105

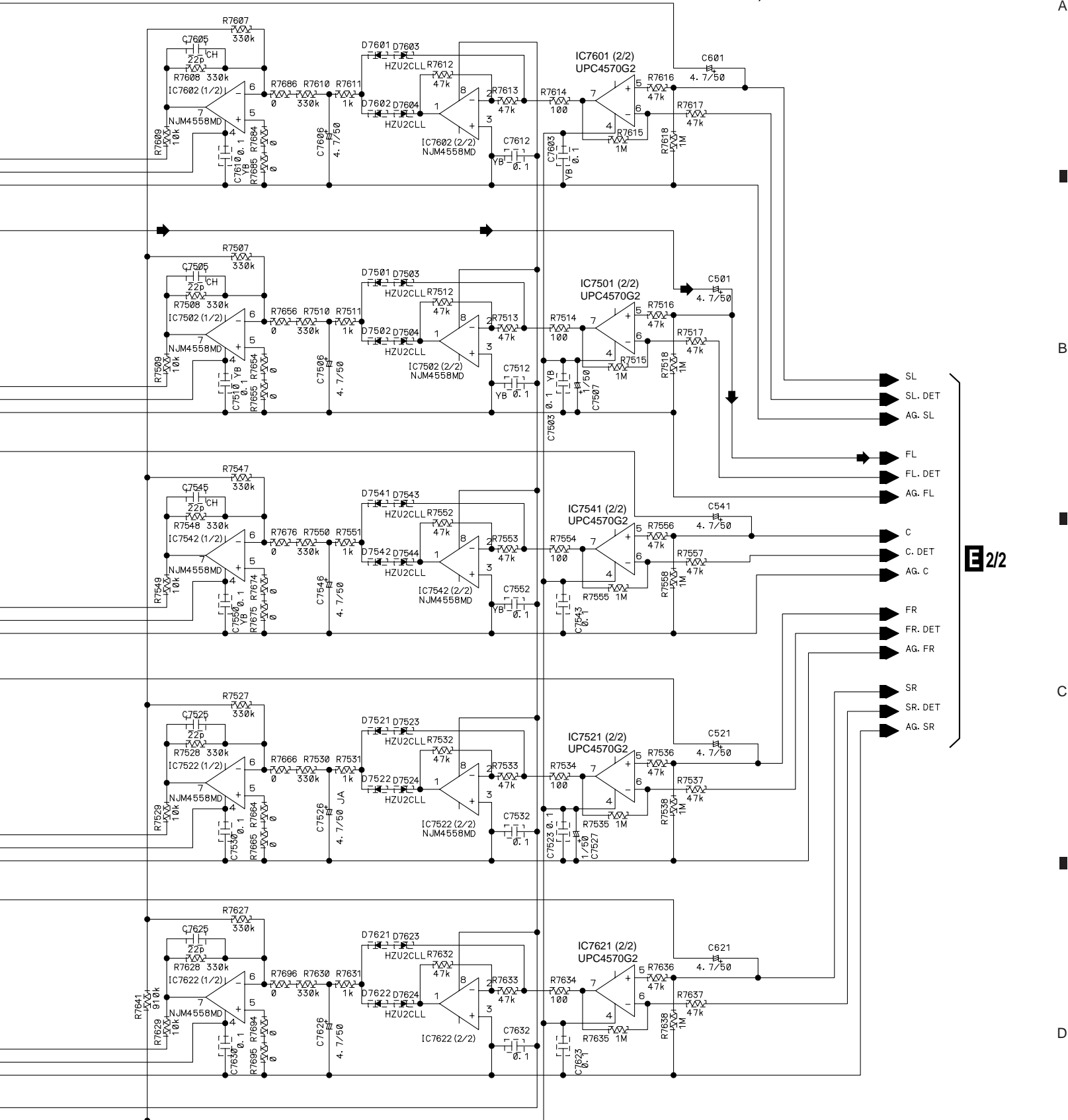
505, 506
 VEF1040

- NO MARK DIODE: 1SS355
- RESISTOR: 1/4W, J%
- NO MARK ELECTROLYTIC CAPACITOR: CEAS JA: CEJA
- NON ELECTROLYTICAL CAPACITOR: CCCCH TYPE



MAIN CHANNEL LIMITER

➔: AUDIO SIGNAL ROUTE



1/2

3.6 TRANS 2-1, DIODE and SP/PS ASSYS

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO. 49102.5 MFD, BY
LITTELFUSE INC. FOR IC4501, IC4502 (AEK7014).

Y1 : ADX7284- (BLK) Y5 : ADX7288- (BLU)
Y2 : ADX7285- (BWN) Y6 : ADX7289- (RED)
Y3 : ADX7286- (GRY) Y7 : ADX7290- (BLU)
Y4 : ADX7287- (RED) Y14 : ADX7297- (BLK)

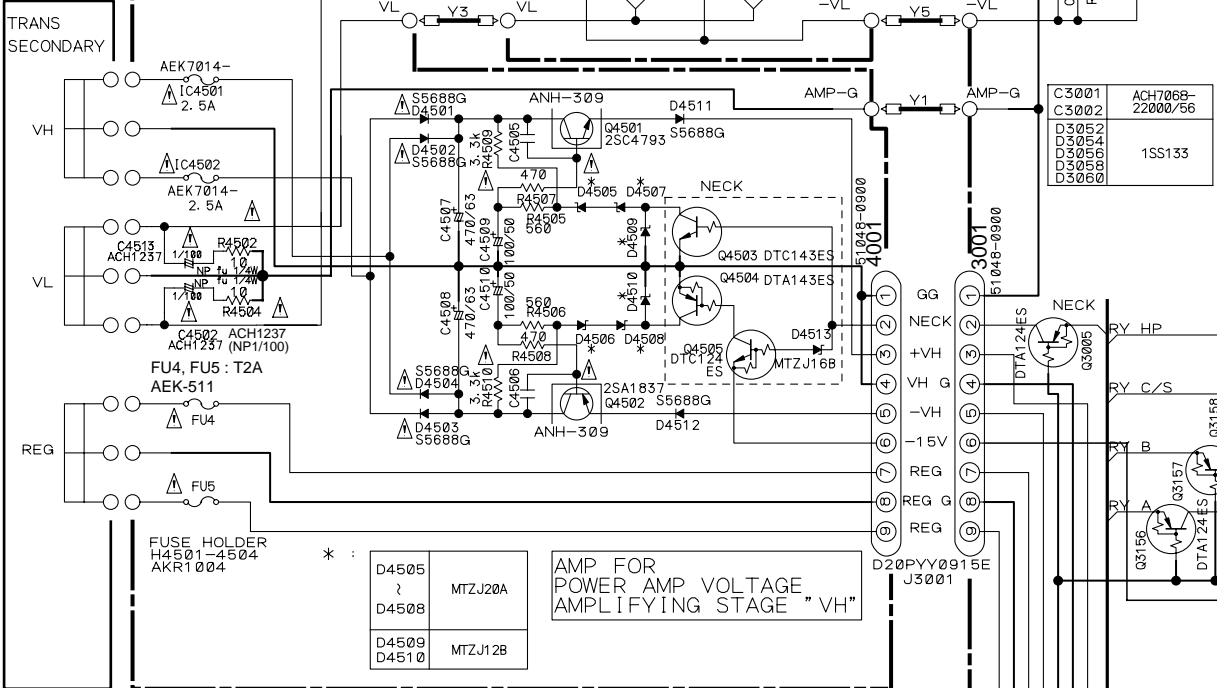
RECTIFIER FOR POWER AMP "VL"

JF
TRANS 2-1 ASSY
(AWX7696)

K DIODE ASSY
(AWX7697)

HE

POWER TRANSFORMER

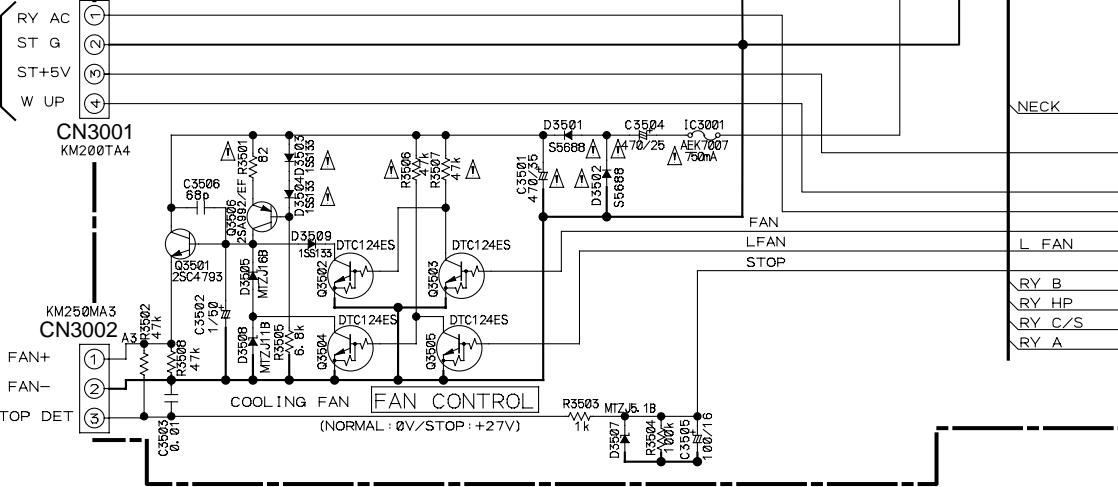


• NOTE FOR FUSE REPLACEMENT

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

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO. 491.750 MFD, BY
LITTELFUSE INC. FOR IC3001 (AEK7007).

VF
CN6003



TO FAN

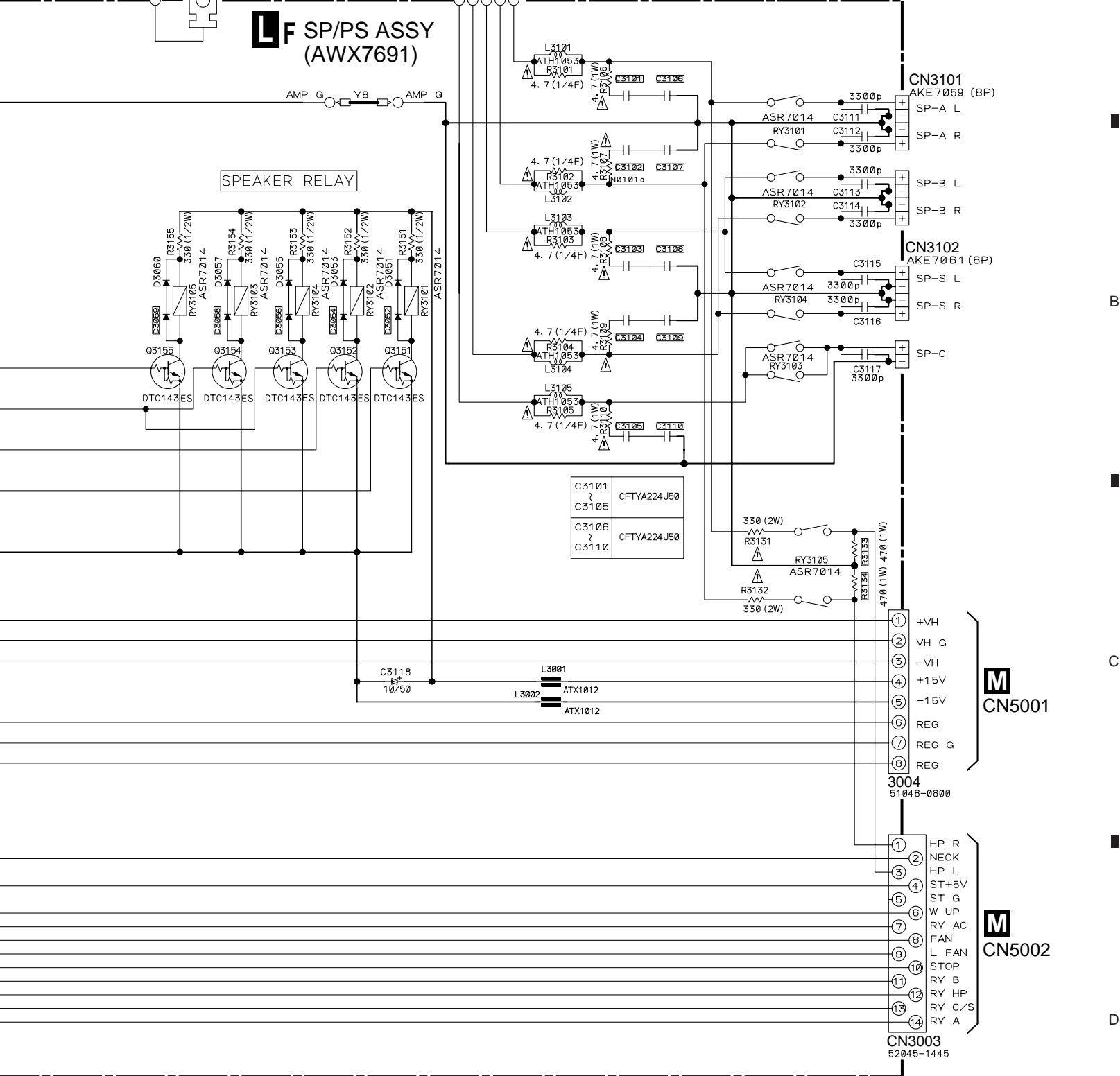
COOLING FAN (NORMAL : 0V/STOP : +27V)

HA - HE

- Y8 : ADX7291 - (BLK)
- Y9 : ADX7292 - (WHT)
- Y10 : ADX7293 - (ORG)
- Y11 : ADX7294 - (VLT)
- Y12 : ADX7295 - (YEL)
- Y13 : ADX7296 - (GRN)
- Y17 : ADX7298 - (BLK)

Y17
KN3001
VNF1084

LF SP/PS ASSY
(AWX7691)



C3101	CFTYA224J50
C3105	CFTYA224J50
C3106	CFTYA224J50
C3110	CFTYA224J50

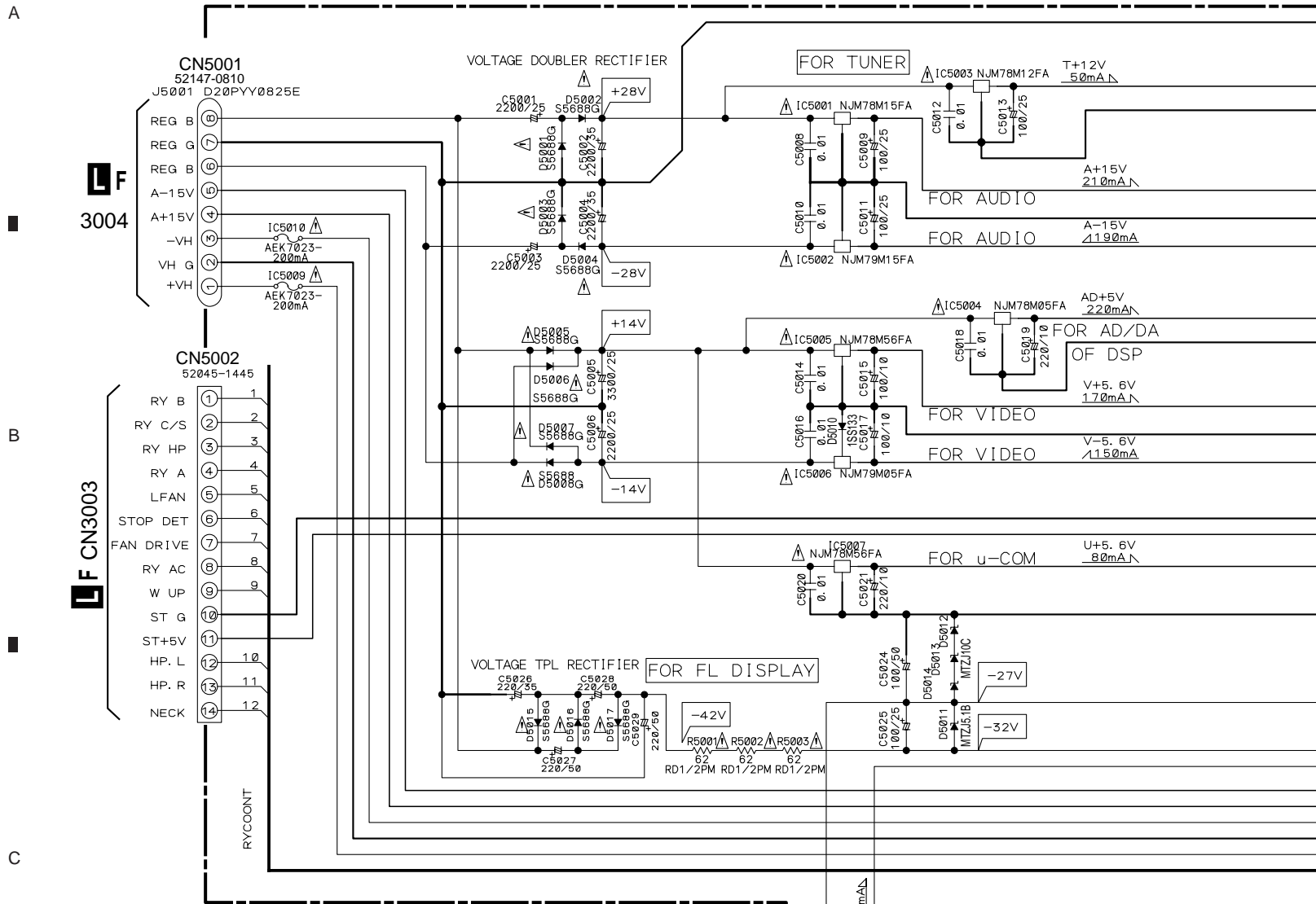
M
CN5001

M
CN5002

CN3003
52045-1445

3.7 REGULATOR, TRANS 1 and TRANS 2-2 ASSYS

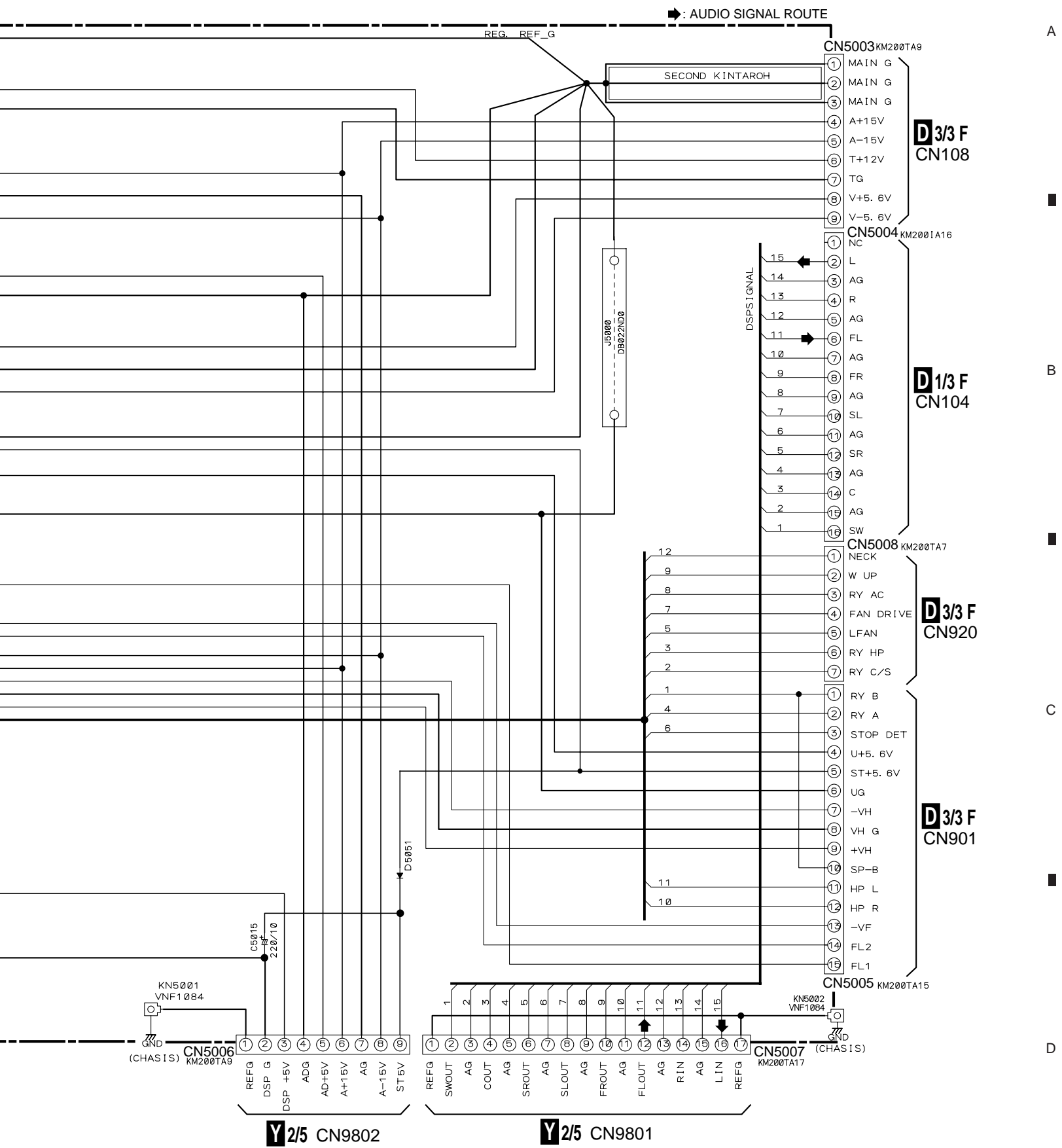
M REGULATOR ASSY (AWX7310)



N TRANS 1 ASSY (AWX7316)

TRANS 2-2 ASSY (AWX7518)

POWER TRANSFORMER



D 3/3 F
CN108

D 1/3 F
CN104

D 3/3 F
CN920

D 3/3 F
CN901

Y 2/5 CN9802

Y 2/5 CN9801

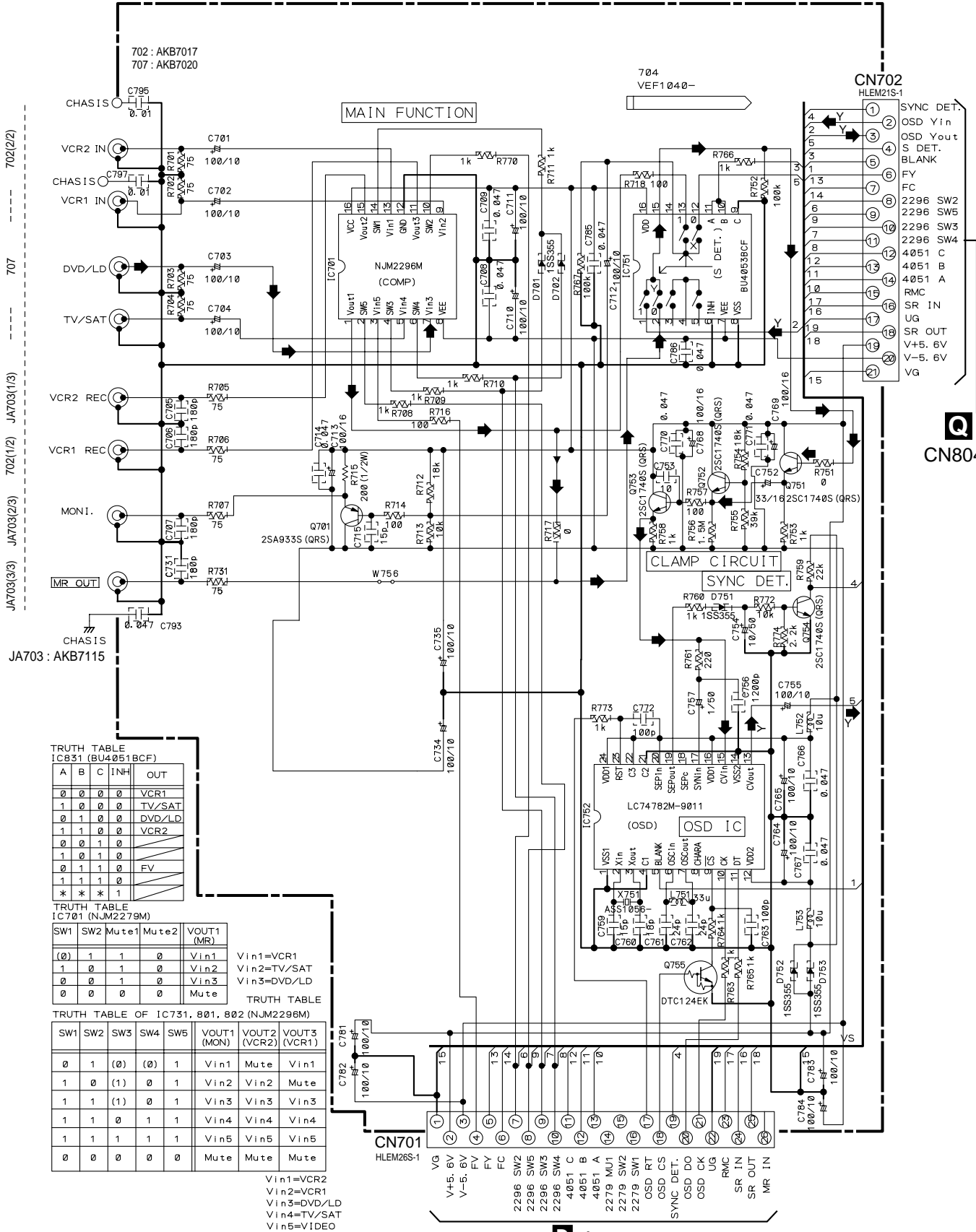


3.8 VIDEO, PRIMARY and P-SW ASSYS

PF 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



TRUTH TABLE IC831 (BU4051BCF)

A	B	C	INH	OUT
0	0	0	0	VCR1
1	0	0	0	TV/SAT
0	1	0	0	DVD/LD
1	1	0	0	VCR2
0	0	1	0	FV
1	0	1	0	FV
0	1	1	0	FV
1	1	1	0	FV
*	*	*	1	

TRUTH TABLE IC701 (NJM2279M)

SW1	SW2	Mute1	Mute2	VOUT1 (MR)
0	1	1	0	Vin1
1	0	1	0	Vin2
0	0	1	0	Vin3
0	0	0	1	Mute

Vin1=VCR1
Vin2=TV/SAT
Vin3=DVD/LD

TRUTH TABLE OF IC731, 801, 802 (NJM2296M)

SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)
0	1	(0)	(0)	1	Vin1	Mute	Vin1
1	0	(1)	0	1	Vin2	Vin2	Mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	0	0	0	Mute	Mute	Mute

Vin1=VCR2
Vin2=VCR1
Vin3=DVD/LD
Vin4=TV/SAT
Vin5=VIDEO

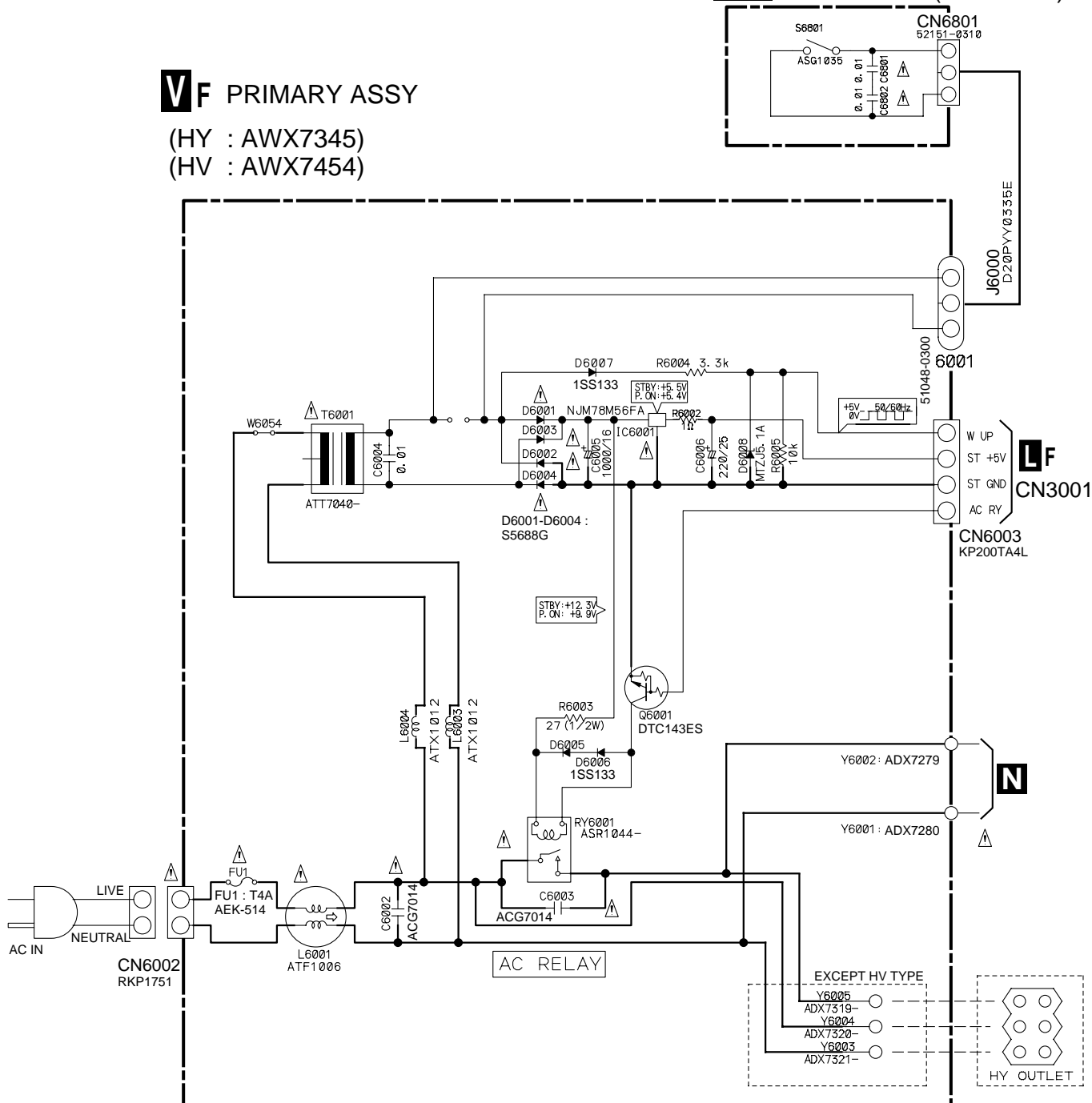
D3/3 F CN905



V F PRIMARY ASSY

(HY : AWX7345)
(HV : AWX7454)

V A P-SW ASSY (AWX7330)

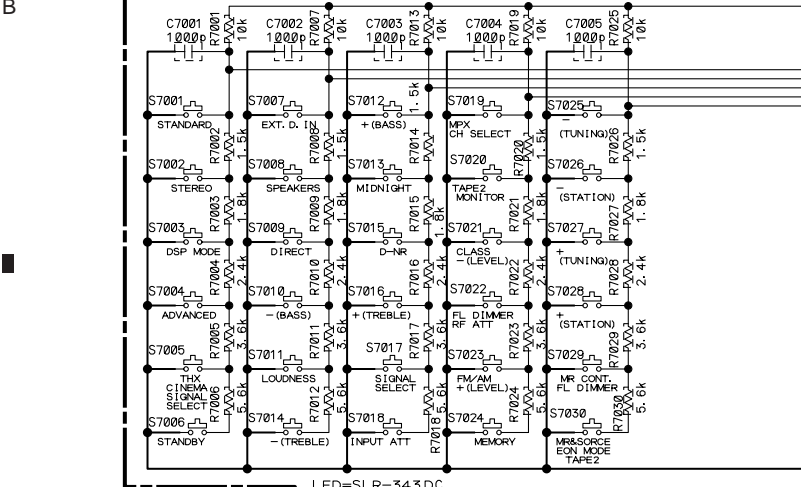
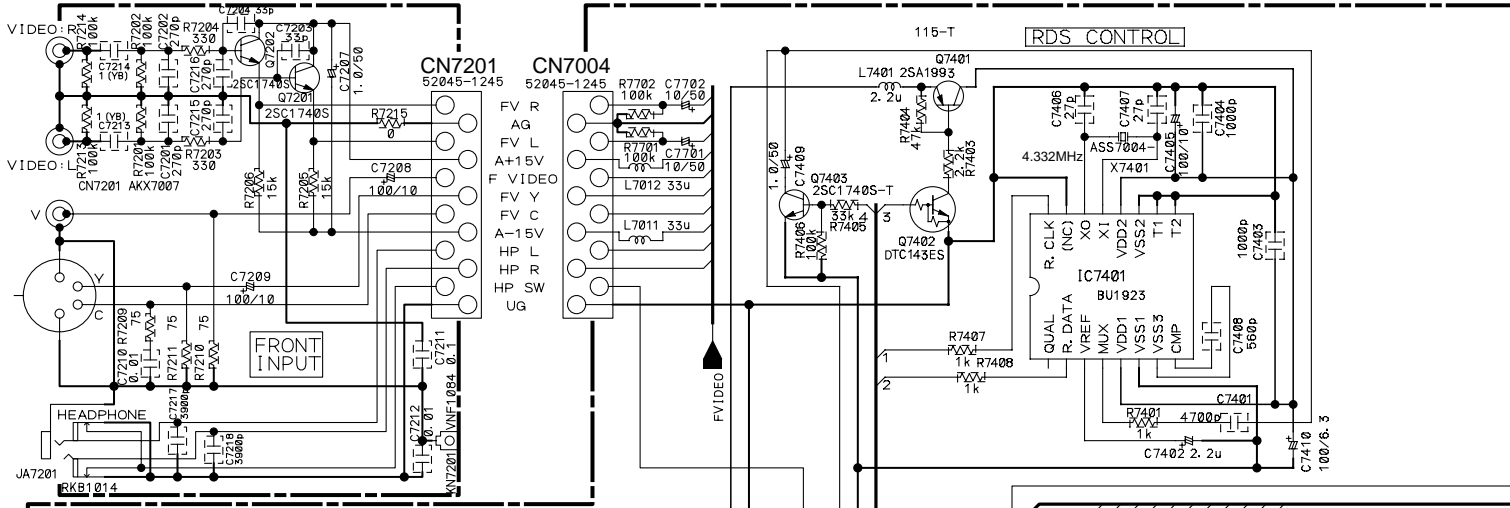


• NOTE FOR FUSE REPLACEMENT

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

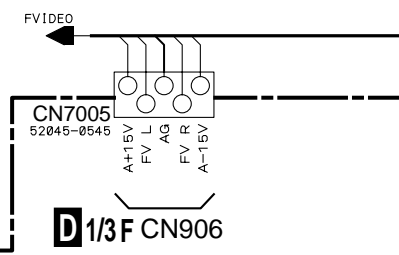
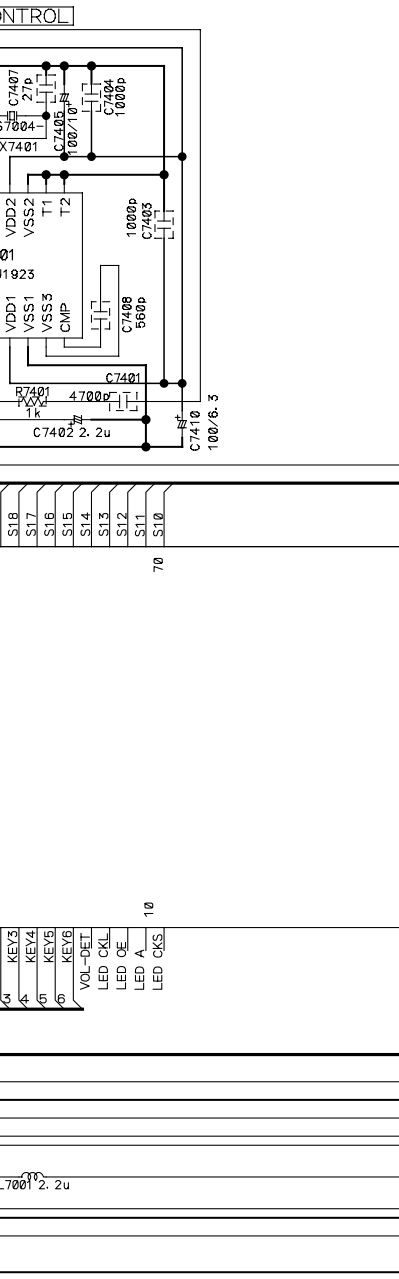
3.9 H. PHONE/F. VIDEO, DISPLAY and ROTARY ENCODER ASSYS

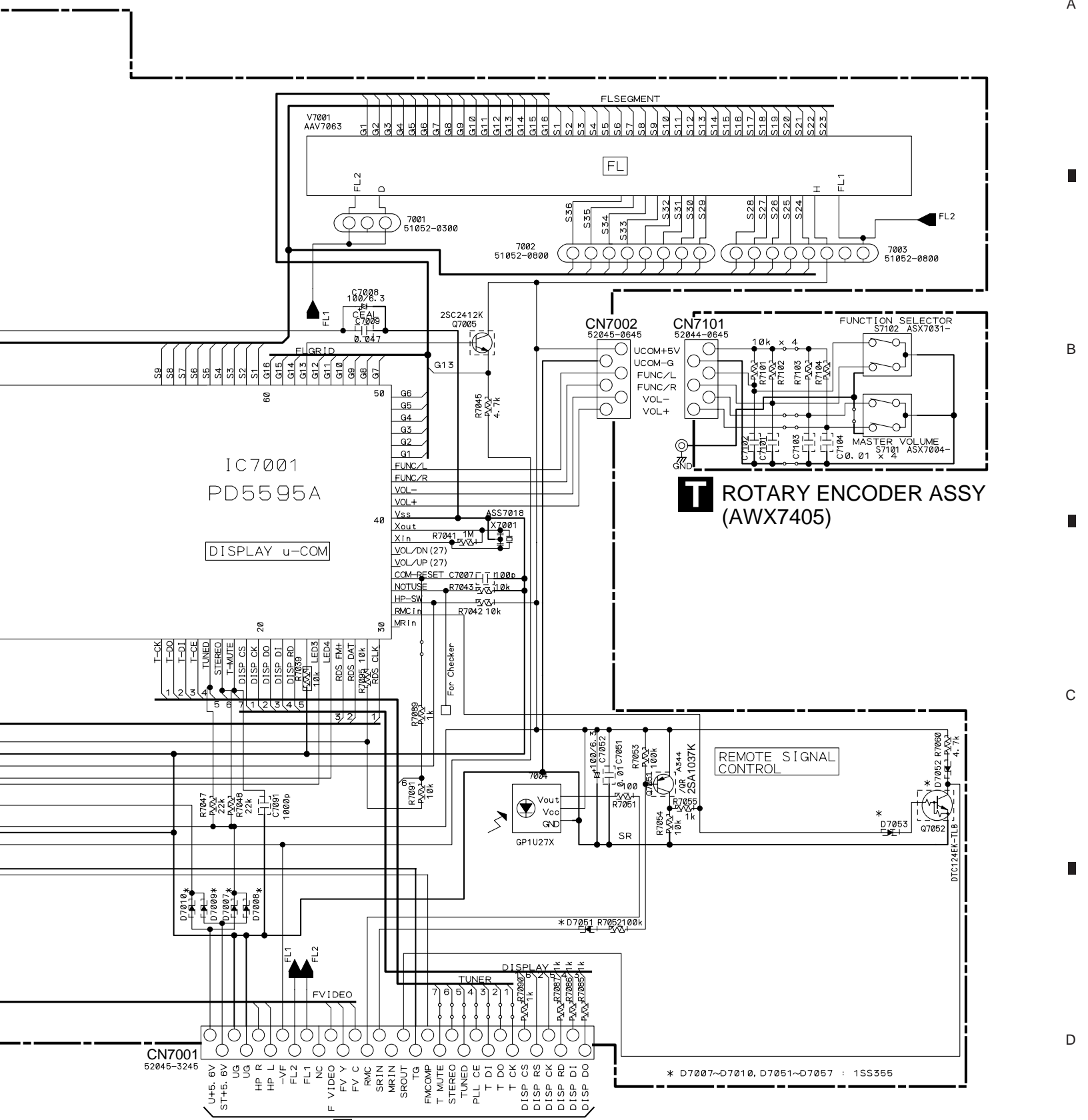
R H. PHONE/F. VIDEO ASSY (AWX7528)



- S7001 : STANDARD
- S7002 : STEREO
- S7003 : DSP MODE
- S7004 : ADVANCED
- S7005 : THX CINEMA
- S7006 : STAND BY/ON
- S7007 : EXTERNAL DECODER IN
- S7008 : SPEAKERS
- S7009 : DIRECT
- S7010 : BASS -
- S7011 : LOUDNESS
- S7012 : BASS +
- S7013 : MIDNIGHT
- S7014 : TREBLE -
- S7015 : DIGITAL NR
- S7016 : TREBLE +
- S7017 : SIGNAL SELECT
- S7018 : INPUT ATT
- S7019 : MPX
- S7020 : TAPE2 MONITOR
- S7021 : CLASS
- S7022 : RF ATT
- S7023 : FM/AM
- S7024 : MEMORY
- S7025 : TUNING -
- S7026 : STATION -
- S7027 : TUNING +
- S7028 : STATION +
- S7029 : FL DIMMER
- S7030 : EON MODE

SF DISPLAY ASSY (AWX7702)





T ROTARY ENCODER ASSY (AWX7405)

REMOTE SIGNAL CONTROL

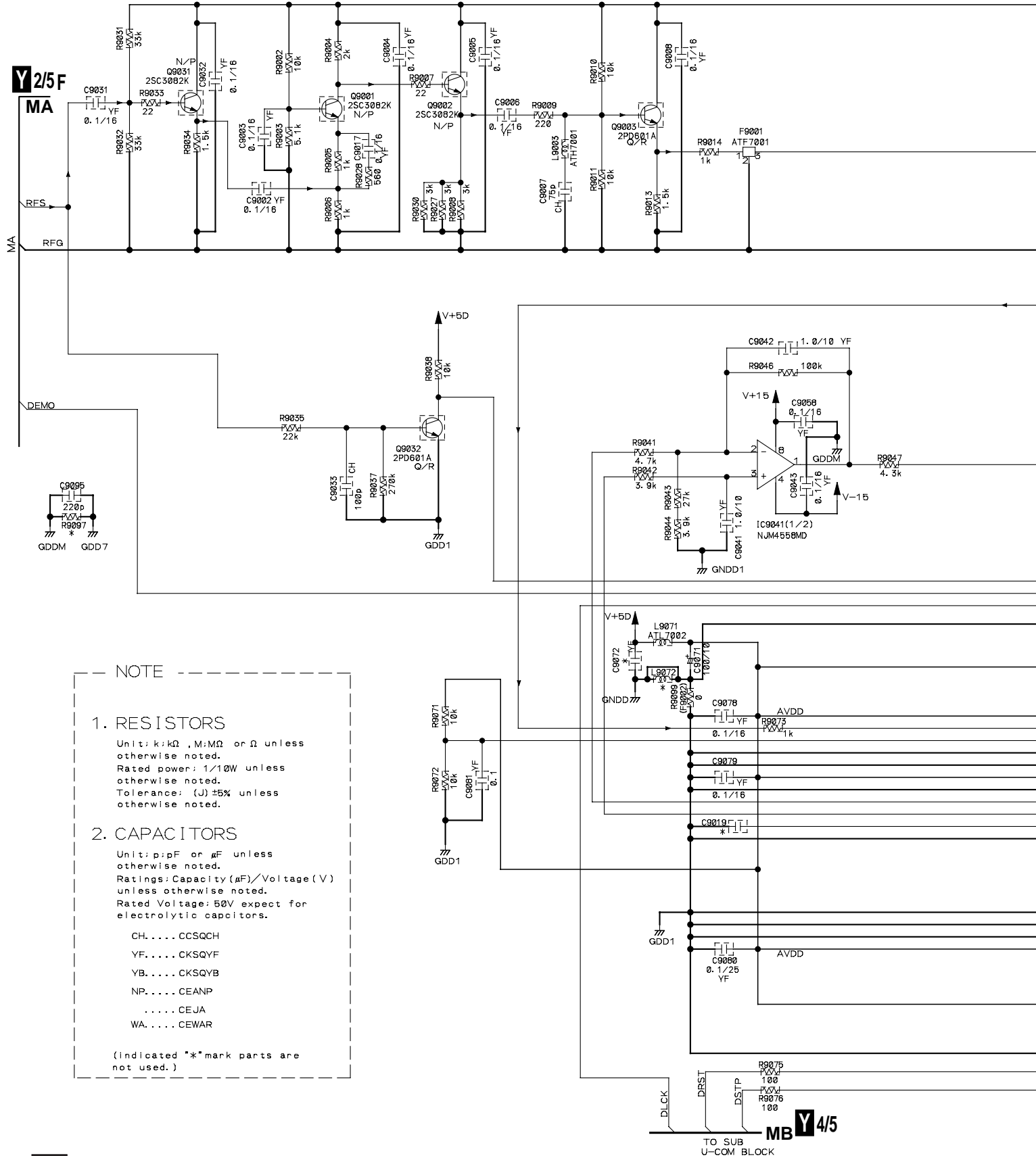
D3/3F CN904



3.10 DSP ASSY (1/5)

Y 1/5 F DSP ASSY (AWX7632)

RF AMP



NOTE

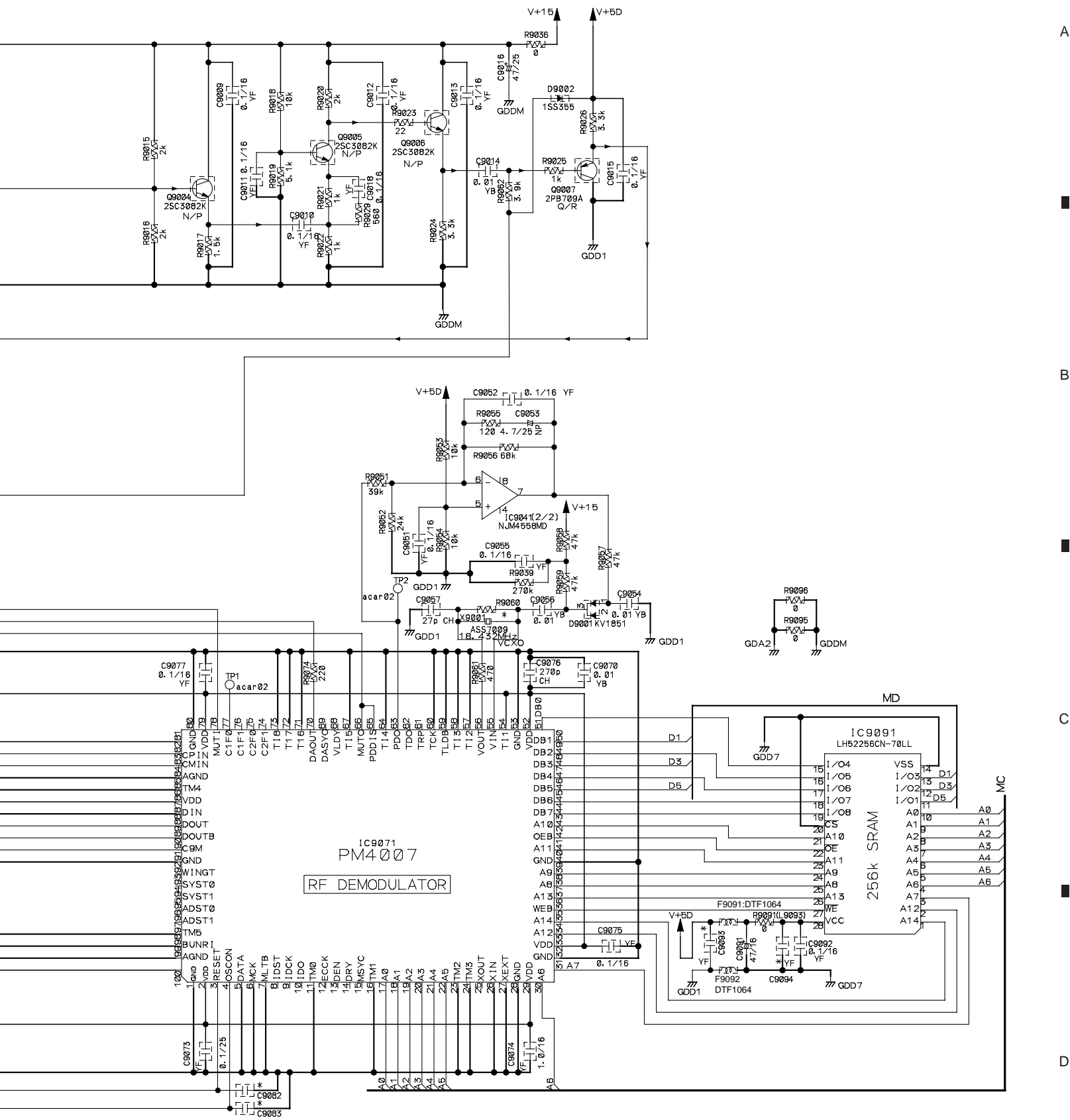
1. RESISTORS
 Unit: k; kΩ, M; MΩ or Ω unless otherwise noted.
 Rated power: 1/10W unless otherwise noted.
 Tolerance: (J) ±5% unless otherwise noted.

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.

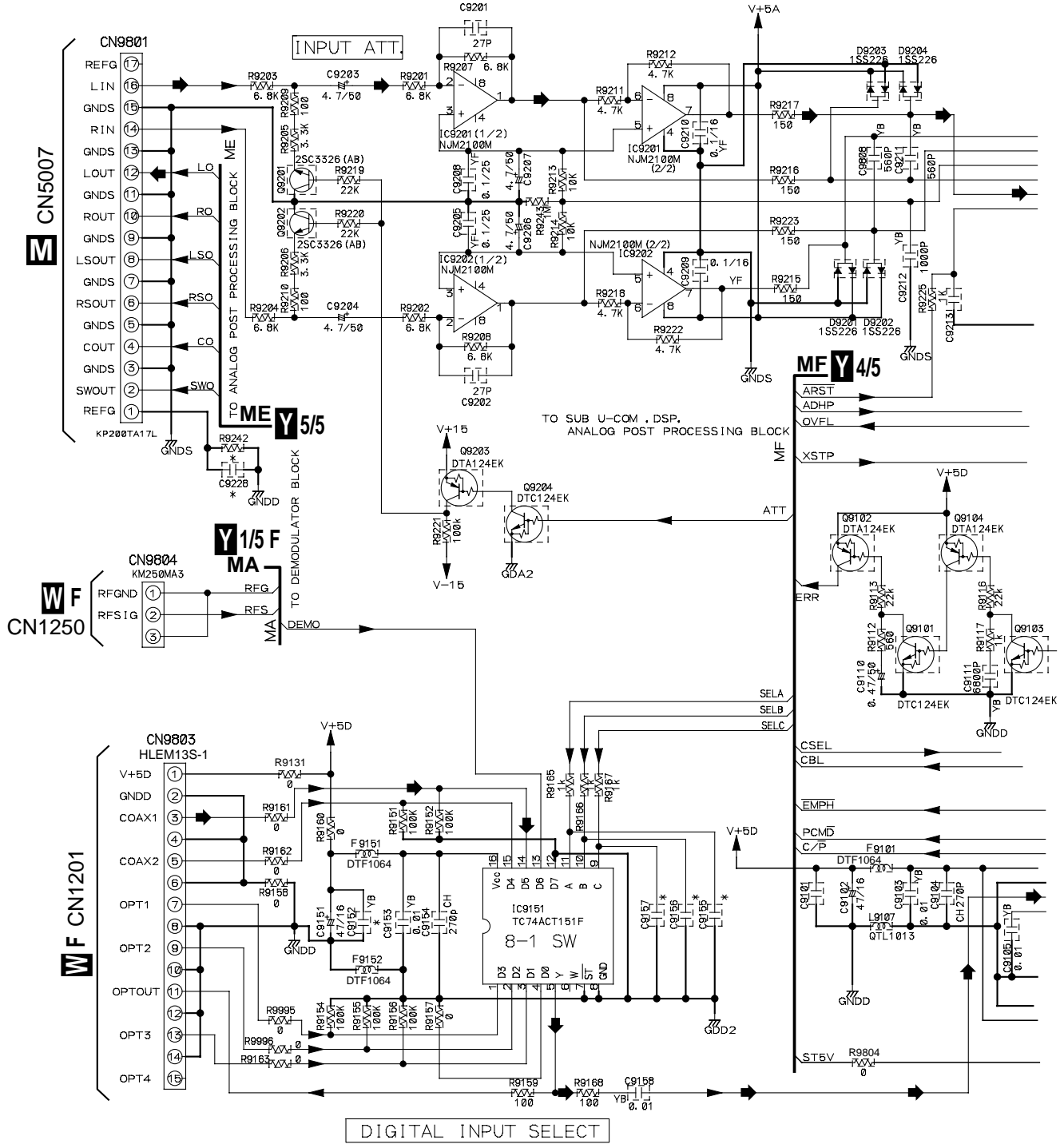
CH.... CCSQCH
 YF.... CKSQYF
 YB.... CKSQYB
 NP.... CEANP
 CEJA
 WA.... CEWAR

(Indicated "*" mark parts are not used.)

TO SUB MB **Y** 4/5 U-COM BLOCK



3.11 DSP ASSY (2/5)

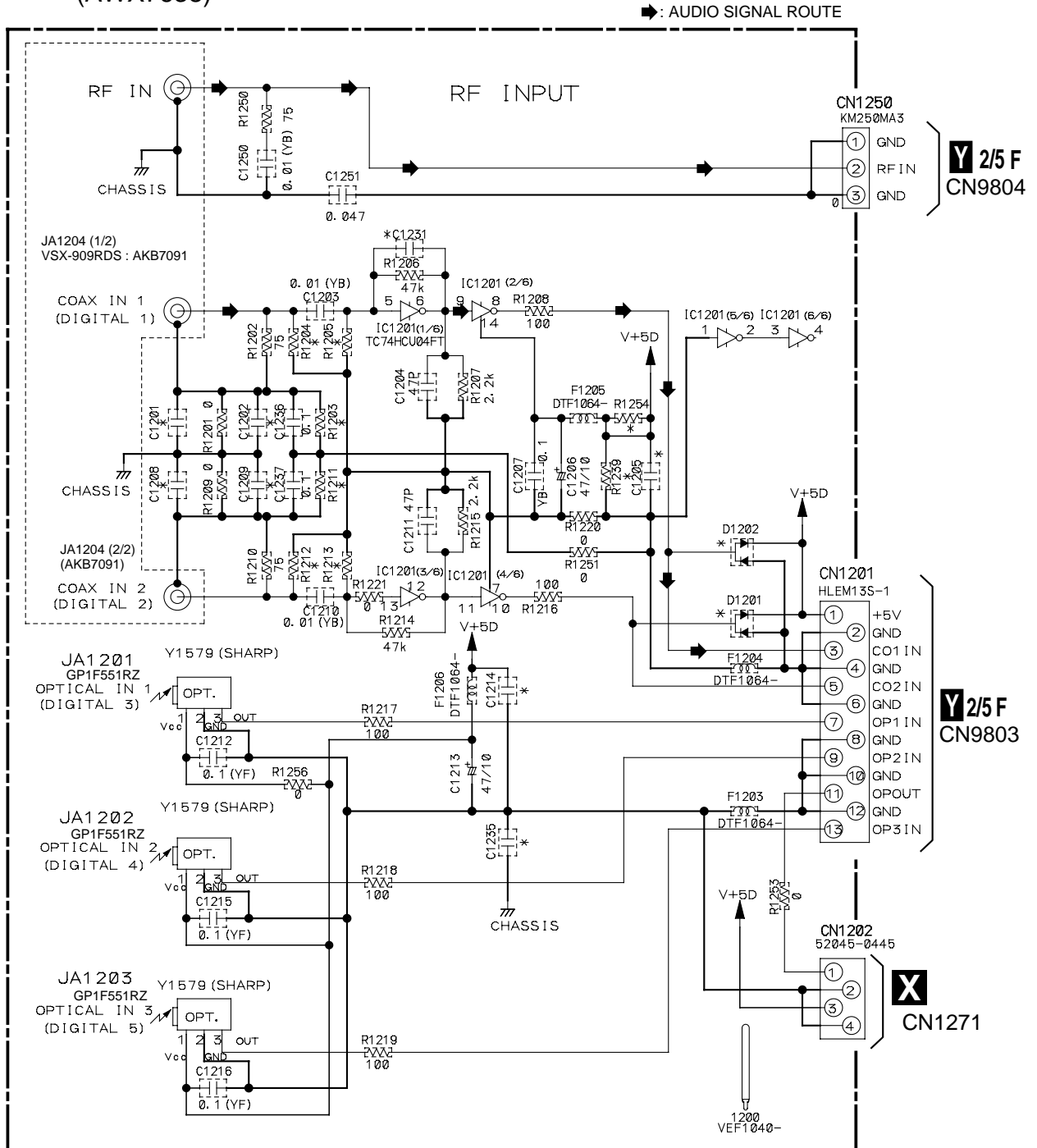


DSP ASSY (AWX7632)

: The power supply is shown with the marked box.

3.12 RF/DIGITAL INPUT ASSY

WF RF / DIGITAL INPUT ASSY (AWX7638)



Y 2/5 F CN9804

Y 2/5 F CN9803

X CN1271

4. REMOTE CONTROL UNIT [AXD7258, AXD7279]

4.1 CONTRAST OF MISCELLANEOUS PARTS

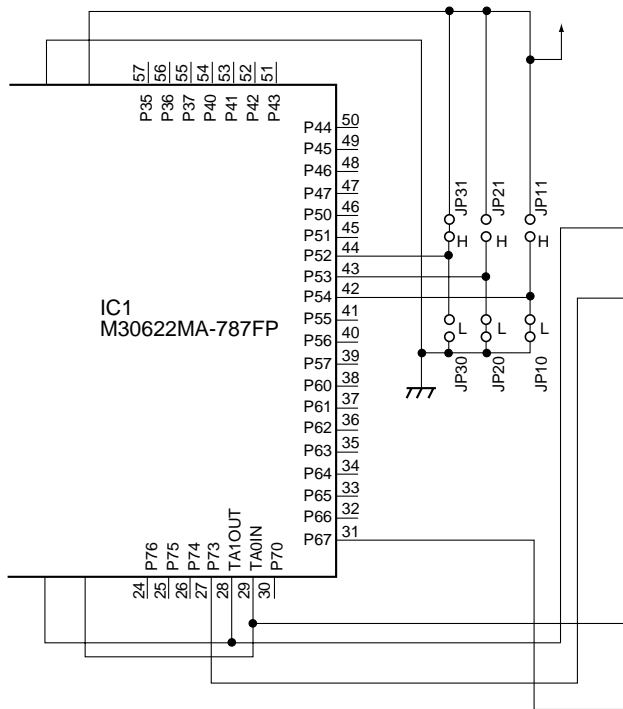
- NOTES :
- Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
 - The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - 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		Caee 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	○	-	-	○	○	-