

Pioneer

Service Manual

ORDER NO.
RRV2189

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D938TX

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-D938TX		
HL	○	AC220-230V	AC240V, *
LB	○	AC110V	_____

* : 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-908RDS-G/HY	RRV2166	

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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 10¹ → 561 RD1/4PU $\overline{561}J$

47k → 47 x 10³ → 473 RD1/4PU $\overline{473}J$

0.5 → R50 RN2H $\overline{R50}K$

1 → 1R0 RSIP $\overline{1R0}K$

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

5.62k → 562 x 10¹ → 5621 RN1/4PC $\overline{5621}F$

■ CONTRAST TABLE

VSX-D938TX/HL, LB and VSX-908RDS-G/HY are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			VSX-908RDS-G /HY	VSX-D938TX /HL	VSX-D938TX /LB	
ASSEMBLIES						
P5-5	NSP	MAIN ASSY	AWK7528	AWK7561	AWK7542	
		└ MAIN CONTROL ASSY	AWX7410	AWX7465	AWX7428	
P5-7 P5-8 P7-8	NSP	POWER/CURRENT ASSY	AWK7510	AWK7510	AWK7548	
		└ DIODE ASSY	AWX7469	AWX7469	AWX7343	
		└ SP/PS ASSY	AWX7359	AWX7359	AWX7449	
		└ VL-TERMINAL ASSY	AWX7511	AWX7511	AWX7324	
P5-10 P5-10 P5-15	NSP	COMPLEX ASSY	AWK7529	AWK7529	AWK7543	
		└ TRANS 1 ASSY	AWX7316	AWX7316	Not used	
		└ TRANS 1/LB ASSY	Not used	Not used	AWX7447	
		└ PRIMARY ASSY	AWX7345	AWX7345	AWX7429	
P8-2	NSP	FRONT/VAMP ASSY	AWK7530	AWK7544	AWK7544	
		└ DISPLAY ASSY	AWX7414	AWX7408	AWX7408	
PACKING SECTION						
P3-2		FM Wire Antenna	ADH7010	ADH7010	ADH7011	
P3-3		Operating Instructions (English)	ARB7187	ARE7213	ARE7213	
P3-9		Packing Case	AHD7815	AHD7818	AHD7818	
P3-12	NSP	Warranty Card	ARY7022	Not used	Not used	
P3-14		Operating Instructions (German)	ARC7244	Not used	Not used	
P3-15		Operating Instructions (French)	ARC7245	Not used	Not used	
P3-16		Operating Instructions (Italian)	ARC7246	Not used	Not used	
P3-17		Operating Instructions (Dutch)	ARC7270	Not used	Not used	
P3-18		Operating Instructions (Swedish)	ARC7280	Not used	Not used	
P3-19		Operating Instructions (Spanish)	ARC7281	Not used	Not used	
P3-20		Operating Instructions (Portuguese)	ARC7282	Not used	Not used	
		Operating Instructions (Chinese)	Not used	ARC7286	ARC7286	
EXTERIOR SECTION						
P5-20	Δ	AC Power Cord	ADG7029	VDG1063	ADG7023	
P5-21	Δ	Power Transformer (T1)	ATS7253	ATS7253	Not used	
		(AC220-230V/240V)				
P5-21	Δ	Power Transformer (T1) (AC110V)	Not used	Not used	ATS7255	
P5-22		FM/AM TUNER Unit	AXX7048	AXX7048	AXX7047	
P5-23	Δ	Fuse (FU1 : T4A)	AEK-514	AEK-514	Not used	
P5-23	Δ	Fuse (FU1 : 10A)	Not used	Not used	DEK1045	
P5-26		AC Cord Spacer	ANG1153	ANG7281	Not used	
P5-26		Cord Stopper	Not used	CM-22B	CM-22C	
P5-27		Bonnet Case	AZN7809	AZN7809	AZN7794	
P5-54		Rear Panel	ANC7866	ANC7816	ANC7817	

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			VSX-908RDS-G /HY	VSX-D938TX /HL	VSX-D938TX /LB	
P5-72		Screw	BBT30P100FCC	BBT30P100FZK	BBT30P100FZK	
P5-75		Screw	IBZ30P100FCC	IBZ30P100FCC	Not used	
P5-78	△	AC Socket 3P	AKP-502	AKP-502	Not used	
P5-79		Caution Label	ARW7036	ARW7036	Not used	
P5-80		Fuse Holder	Not used	VKR1003	Not used	
P5-81	△	Fuse (T5A)	Not used	PEK1003	Not used	
P5-82	△	Fan Motor	AXM7012	AXM7012	Not used	
HEAT SINK SECTION						
P7- 9	NSP	Heat Sink	ANH7102	ANH7103	ANH7102	
P7-16	△	Thermistor	AEX7004	AEX7004	Not used	
FRONT PANEL SECTION						
P8-10		Door Sheet	AAH7057	AAH7054	AAH7054	
P8-14		MR Button	AAD7575	Not used	Not used	
P8-25		Front Panel	ANB7176	ANB7196	ANB7196	

Notes : For ASSEMBLIES, refer to "CONTRAST OF PCB ASSEMBLIES", "2. PCB CONNECTION DIAGRAM" and "3. SCHEMATIC DIAGRAM".

■ CONTRAST OF PCB ASSEMBLIES

DF MAIN CONTROL ASSY

AWX7465, AWX7428 and AWX7410 are constructed the same except for the following :

Mark	Symbol and Description	Part No.			Remarks
		AWX7410	AWX7465	AWX7428	
Q992		2SC2412K	Not used	Not used	
C995		CKSQYB103K50	Not used	Not used	
R921		RS1/10S103J	Not used	Not used	
R922		Not used	RS1/10S103J	RS1/10S103J	
R923		Not used	Not used	RS1/10S103J	
R924		RS1/10S103J	RS1/10S103J	Not used	
R925		Not used	RS1/10S103J	Not used	
R926		RS1/10S103J	Not used	RS1/10S103J	
R992		RS1/10S221J	Not used	Not used	
R993		RS1/10S101J	Not used	Not used	
R994		RS1/10S472J	Not used	Not used	

IF VL-TERMINAL ASSY

AWX7324 and AWX7511 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7511	AWX7324	
	C2011, C2012	CEAT4R7M2A	CEAT1R0M2A	

KF DIODE ASSY

AWX7343 and AWX7469 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7469	AWX7343	
△	D3001, D3002	LN6SB60-4003	D5SBA20(B)	

LF SP/PS ASSY

AWX7449 and AWX7359 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7359	AWX7449	
	IC3001	AEK7007	Not used	
	Q3501, Q3502	DTA124ES	Not used	
	Q3503	2SC4793	Not used	
	Q3504	2SC2235	Not used	
	D3501, D3502	S5688G	Not used	
	D3505	MTZJ27D	Not used	
	D3506, D3508	MTZJ12C	Not used	
	D3507	MTZJ5.1B	Not used	
	L3001, L3002	ATX1012	Not used	
	C3118	CEAT470M50	CEAT100M50	
	C3501	CEAT471M35	Not used	
	C3502	CEAT1R0M50	Not used	
	C3503	CKCYF103Z50	Not used	
	C3504	CEAT471M25	Not used	
	R3501	RD1/4PU471J	Not used	
	R3502	RD1/4PU473J	Not used	
	R3503	RD1/4PU102J	Not used	
	R3504	RD1/4PU104J	Not used	
	R3505	RS3LMF221J	Not used	
	R3506	RD1/4PU222J	Not used	
	R3507	RD1/4PU103J	Not used	
	CN3002	KM250MA3	Not used	

SF DISPLAY ASSY

AWX7408 and AWX7414 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7414	AWX7408	
	IC7401	BU1923	Not used	
	Q7002	DTC124EK	Not used	
	Q7401	2SA1993	Not used	
	Q7402	DTC143ES	Not used	
	Q7403	2SC1740S	Not used	
	D7002	SLR-343VR	Not used	
	L7401	LFA2R2J	Not used	
	S7019, S7020	VSG1009	Not used	
	C7401	CKSQYB472K50	Not used	
	C7402	CEAT2R2M50	Not used	
	C7403, C7404	CKSQYB102K50	Not used	
	C7405	CEAT101M10	Not used	
	C7406, C7407	CCSQCH270J50	Not used	
	C7408	CKSQYB561K50	Not used	
	C7409	CEAT1R0M50	Not used	
	R7038	RS1/10S271J	Not used	
	R7062	RS1/10S0R0J	Not used	
	R7401, S7407, S7408	RS1/10S102J	Not used	
	R7403	RS1/10S222J	Not used	
	R7404	RS1/10S473J	Not used	
	R7405	RS1/10S333J	Not used	
	R7406	RS1/10S104J	Not used	
	X7401 CRYSTAL RESONATOR (4.332MHz)	ASS7004	Not used	

V F PRIMARY ASSY

AWX7429 and AWX7345 are constructed the same except for the following :

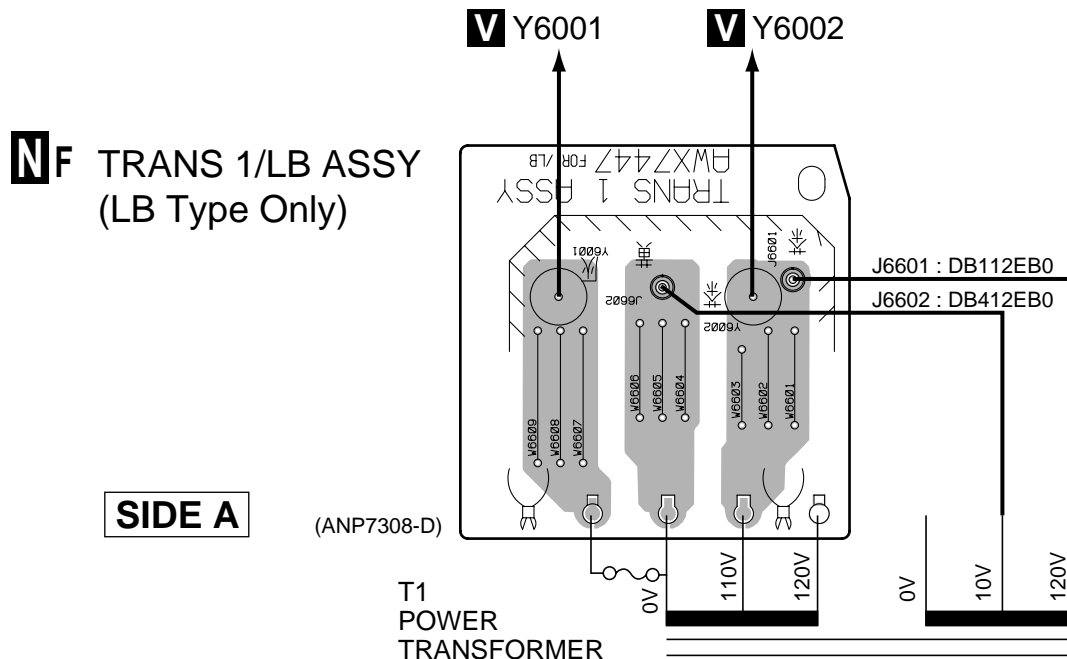
Mark	Symbol and Description	Part No.		Remarks
		AWX7345	AWX7429	
△	C6002, C6003 (10000pF/AC250V) C6006 L6003, L6004	ACE7014 CEAT221M25 ATX1012	ACG7020 CEAT470M25 Not used	
△	RY6001 POWER RELAY	ASR1044	ASR7022	
△	T6001 STANDBY TRANS.	ATT7040	ATT7041	
	R6002	RD1/4PU1R0J	Not used	
	Y6003	ADX7321	Not used	
	Y6004	ADX7320	Not used	
	Y6005	ADX7319	Not used	
△	6004 3P AC OUTLET	Not used	AKP1053	

N F TRANS 1/LB ASSY

TRANS 1/LB Assy has no service parts.

2. PCB CONNECTION DIAGRAM

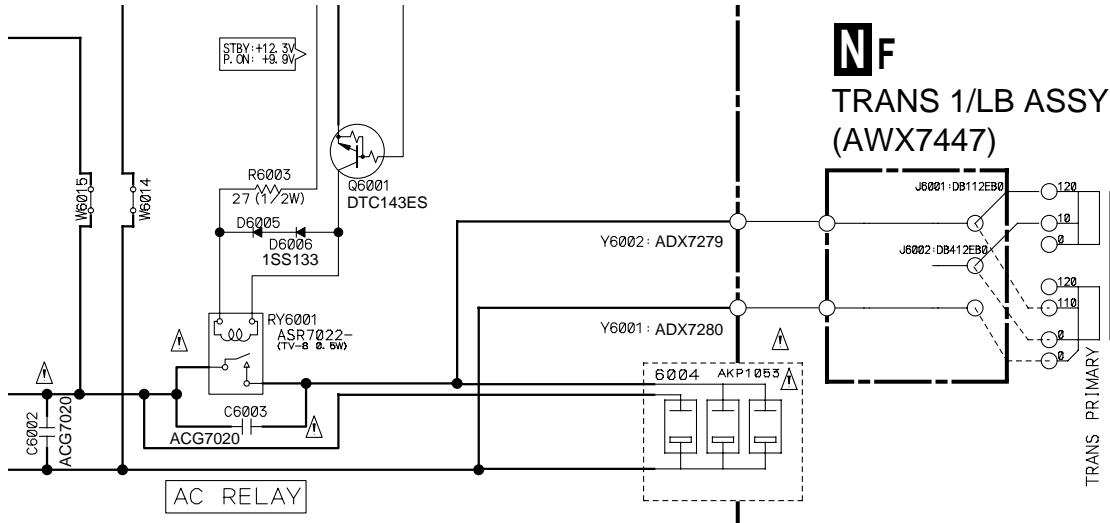
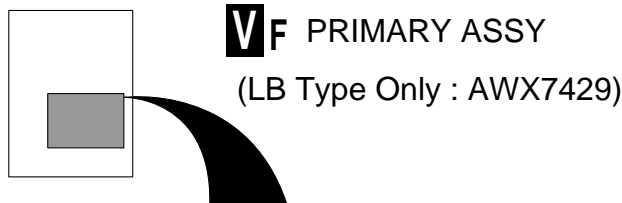
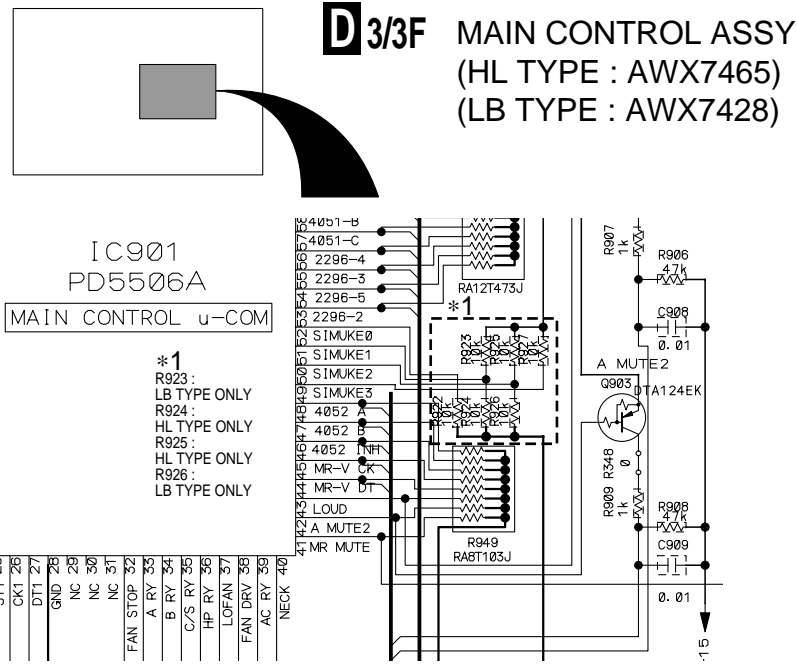
2.1 TRANS 1/LB ASSY



3. SCHEMATIC DIAGRAM

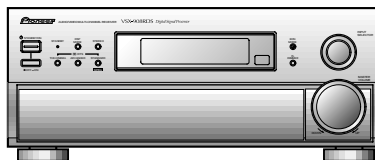
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

3.1 MAIN CONTROL, PRIMARY and TRANS 1/LB ASSYS



Service Manual

Pioneer



ORDER NO.
RRV2166

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-908RDS VSX-908RDS-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-908RDS	VSX-908RDS-G		
HY/EW	○	—	AC220-230V	AC240V, *
HY/GR	○	—	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.

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.



WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65



NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

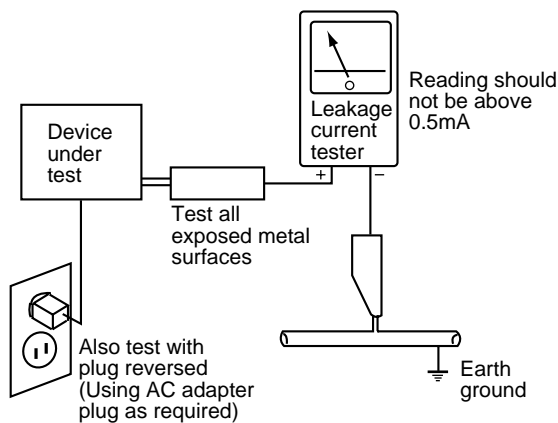
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

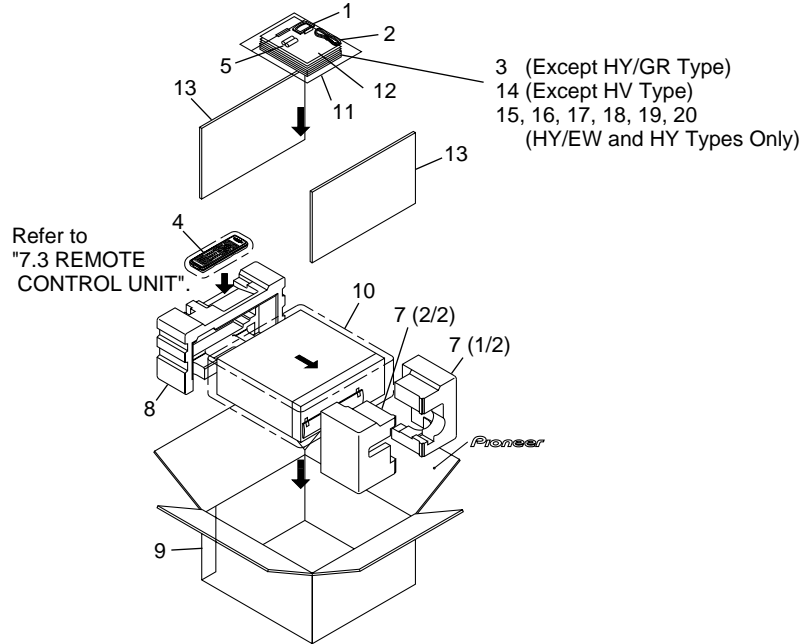
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

- 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 the product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	AM Loop Antenna	ATB7009		11	Polyethylene Bag (0.03×230×340)	Z21-038
	2	FM Wire Antenna	ADH7010		12	Warranty Card	ARY7022
	3	Operating Instructions(English)	See Contrast table (2)	NSP	13	Spacer	AHB7032
	4	Remote Control Unit	See Contrast table (2)		14	Operating Instructions	See Contrast table (2)
NSP	5	Alkaline Dry Cell Battery (LR6, AA)	VEM1012		15	Operating Instructions	See Contrast table (2)
	6	•••••			16	Operating Instructions	See Contrast table (2)
	7	Front Pad	AHA7253		17	Operating Instructions	See Contrast table (2)
	8	Rear Pad	AHA7254		18	Operating Instructions	See Contrast table (2)
	9	Packing Case	See Contrast table (2)		19	Operating Instructions	See Contrast table (2)
	10	Packing Sheet	RHC1023		20	Operating Instructions	See Contrast table (2)

(2) CONTRAST TABLE

VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-908RDS /HY/EW	VSX-908RDS /HY/GR	VSX-908RDS /HV	VSX-908RDS -G/HY	
	3	Operating Instructions (English)	ARB7187	Not used	ARB7187	ARB7187	
	4	Remote Control Unit (CU-VSX162)	AXD7214	AXD7214	AXD7214	Not used	
	4	Remote Control Unit (CU-VSX165)	Not used	Not used	Not used	AXD7236	
	9	Packing Case	AHD7814	AHD7814	AHD7814	AHD7815	
	14	Operating Instructions (German)	ARC7244	ARC7244	Not used	ARC7244	
	15	Operating Instructions (French)	ARC7245	Not used	Not used	ARC7245	
	16	Operating Instructions (Italian)	ARC7246	Not used	Not used	ARC7246	
	17	Operating Instructions (Dutch)	ARC7270	Not used	Not used	ARC7270	
	18	Operating Instructions (Swedish)	ARC7280	Not used	Not used	ARC7280	
	19	Operating Instructions (Spanish)	ARC7281	Not used	Not used	ARC7281	
	20	Operating Instructions (Portuguese)	ARC7282	Not used	Not used	ARC7282	

(1) EXTERIOR PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	•••••			41	•••••	
NSP	2	EXTERNAL IN Assy	AWX7413		42	Cushion 55	PNM1316
NSP	3	A-PINJACK Assy	AWX7412	NSP	43	Frame 26	ANG7238
	4	CONNECTION Assy	AWX7347		44	Insulator	PNW2766
	5	MAIN CONTROL Assy	AWX7410		45	Locking Card Spacer	DEC1908
	6	TRANS 2-1 ASSY	AWX7403		46	•••••	
	7	DIODE Assy	AWX7343		47	•••••	
	8	SP/PS Assy	AWX7359	NSP	48	Panel Stay 26	AND7031
	9	REGULATOR Assy	AWX7310		49	PC Support	VEC1549
	10	TRANS 1 Assy	AWX7316	NSP	50	PCB Holder	AEC7057
	11	TRANS 2-2 Assy	AWX7518	NSP	51	PCB Holder	PNW2100
	12	VIDEO Assy	AWX7422	NSP	52	PCB Mould	AMR1525
	13	S-VIDEO Assy	AWX7395		53	PCB Spacer	AEC1372
	14	•••••			54	Rear Panel	See Contrast table (2)
	15	PRIMARY Assy	See Contrast table (2)		55	Shield Case	ANK7054
	16	DIGITAL-I/O Assy	AWX7396		56	•••••	
NSP	17	RF TERMINAL Assy	AWX7376		57	•••••	
	18	DSP Assy	AWX7272		58	Side Escutcheon L	See Contrast table (2)
	19	V-AMP Assy	AWX7309		59	Side Escutcheon R	See Contrast table (2)
△	20	AC Power Cord	See Contrast table (2)		60	•••••	
△	21	Power Transformer (T1)	ATS7253		61	•••••	
	22	FM/AM TUNER Unit	AXX7048		62	Stud Cover	AEC7105
△	23	Fuse (FU1 : T4A)	AEK-514		63	Terminal Screw	AKE-031
△	24	Fuse (FU4 : T2A)	AEK-511	NSP	64	Under Base 26	ANA7089
△	25	Fuse (FU5 : T2A)	AEK-511	NSP	65	Binder (BK-1)	ZCA-BK1
	26	AC Cord Spacer	See Contrast table (2)		66	Screw	BBT30P080FCC
	27	Bonnet Case	See Contrast table (2)		67	Screw	BBZ30P080FZK
	28	2P Shield with Housing (J24)	ADX7250		68	Screw	ABA1193
	29	Lead Card 07P (J13)	ADD7161		69	Screw	IBZ30P080FCC
	30	Lead Card 11P AD (J22)	ADD7170		70	Screw	BBZ30P180FMC
	31	Lead Card 13P AD (J16)	ADD7169		71	Screw	ABA1015
	32	Lead Card 14P (J17)	ADD7165		72	Screw	See Contrast table (2)
	33	Lead Card 21P (J18)	ADD7164		73	Screw	See Contrast table (2)
	34	Lead Card 23P BD SLD (J12)	ADD7160		74	Screw	BBZ30P060FCC
	35	Lead Card 26P (J15)	ADD7163		75	Screw	IBZ30P100FCC
	36	Lead Card 28P (J23)	ADD7171		76	Screw	BBT30P080FZK
	37	Assy Holder	ANG7121		77	Screw	BBZ30P080FCC
	38	Assy Holder B	AMR7267	△	78	AC Socket 3P	See Contrast table (2)
	39	Card Spacer	AEC7133		79	Caution Label	See Contrast table (2)
	40	Card Spacer	DEC1772		80	Fuse Holder	See Contrast table (2)
				△	81	Fuse (T5A)	See Contrast table (2)
				△	82	Fan Motor	AXM7012
				NSP	83	Spacer	AEB1254
					84	Remo-con. Cushion	AEB7167

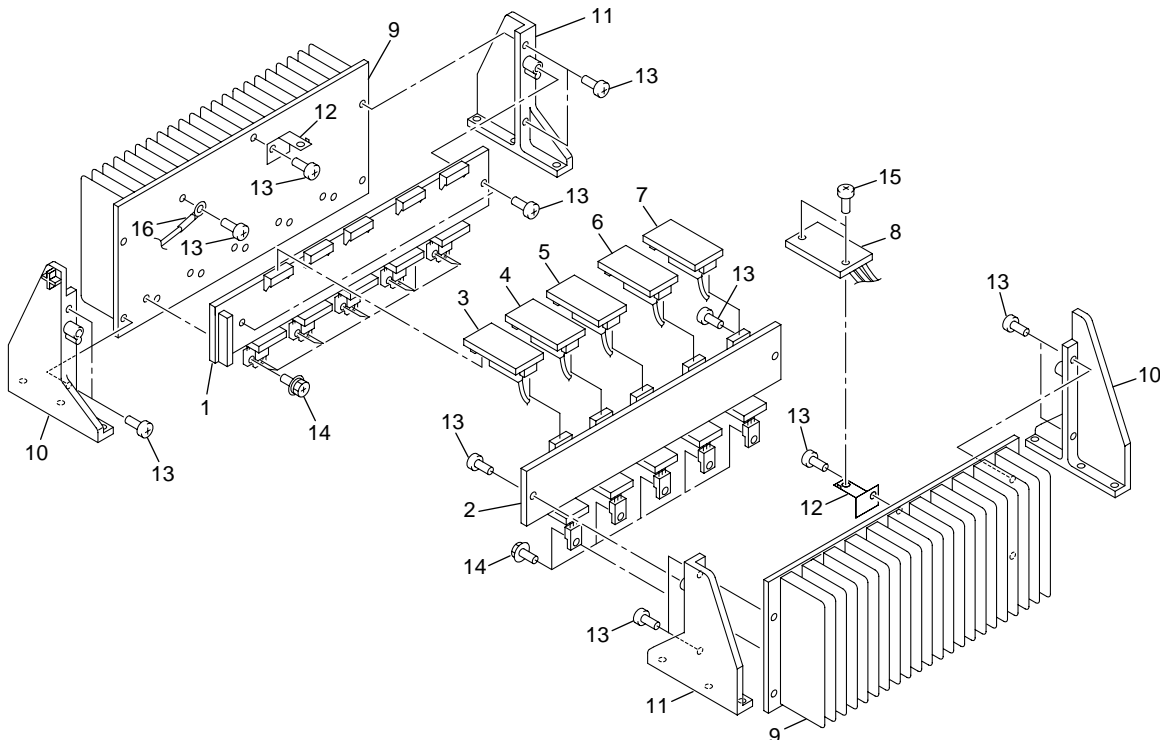
VSX-908RDS, VSX-908RDS-G

(2) CONTRAST TABLE

VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-908RDS /HY/EW	VSX-908RDS /HY/GR	VSX-908RDS /HV	VSX-908RDS -G/HY	
△	15	PRIMARY Assy	AWX7345	AWX7345	AWX7454	AWX7345	
	20	AC Power Cord	ADG7029	ADG7029	VDG1063	ADG7029	
	26	AC Cord Spacer	ANG1153	ANG1153	Not used	ANG1153	
	26	Cord Stopper	Not used	Not used	CM-22B	Not used	
	27	Bonnet Case	AZN7808	AZN7808	AZN7808	AZN7809	
	54	Rear Panel	ANC7742	ANC7742	ANC7818	ANC7866	
	58	Side Escutheon L 98	AAK7660	AAK7660	AAK7660	Not used	
	58	Side Escutheon L D8	Not used	Not used	Not used	AAK7662	
	59	Side Escutheon R 98	AAK7661	AAK7661	AAK7661	Not used	
	59	Side Escutheon R D8	Not used	Not used	Not used	AAK7663	
△	72	Screw	BBT30P100FZK	BBT30P100FZK	BBT30P100FZK	BBT30P100FCC	
	73	Screw	FBT40P080FZK	FBT40P080FZK	FBT40P080FZK	FBT40P080FNI	
	78	AC Socket 3p	AKP-502	AKP-502	Not used	AKP-502	
	79	Caution Label	ARW7036	ARW7036	Not used	ARW7036	
△	80	Fuse Holder	Not used	Not used	VKR1003	Not used	
	81	Fuse (T5A)	Not used	Not used	PEK1003	Not used	

2.3 HEAT SINK SECTION



(1) HEAT SINK SECTION PARTS LIST

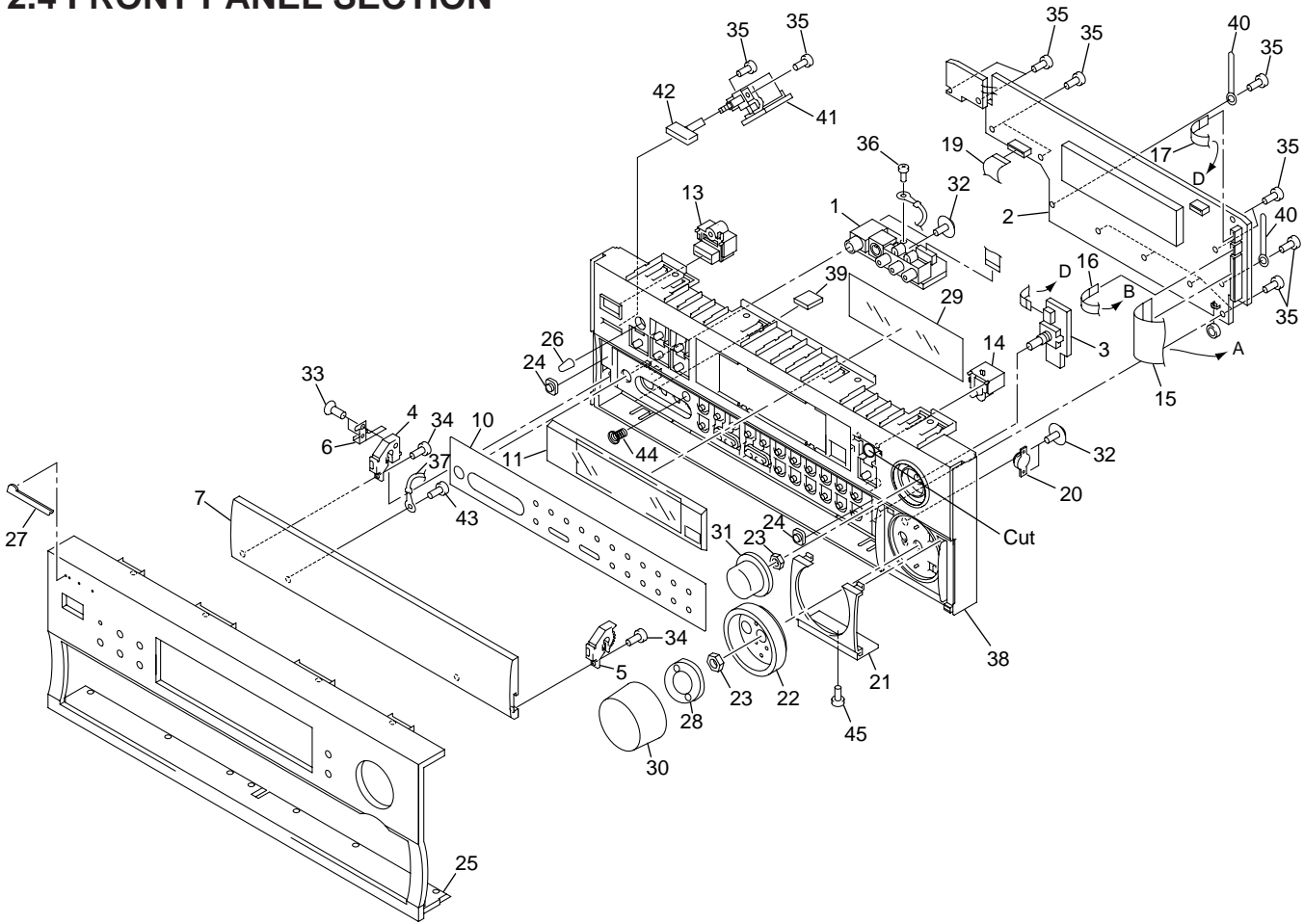
Mark	No.	Description	Part No.
	1	C-AMP N Assy	AWX7318
NSP	2	C-AMP-P Assy	AWX7317
NSP	3	OUTPUT-SL Assy	AWX7322
NSP	4	OUTPUT-FL Assy	AWX7319
	5	OUTPUT-C Assy	AWX7321
NSP	6	OUTPUT-FR Assy	AWX7320
NSP	7	OUTPUT-SR Assy	AWX7323
	8	VL-TERMINAL Assy	AWX7324
NSP	9	Heat Sink	ANH7102
	10	Heat Sink Holder B	AMR7256
	11	Heat Sink Holder A	AMR7255
NSP	12	Power Supply Plate	ANG7240
	13	Screw	See Contrast table (2)
	14	Screw	ABA1082
	15	Screw	IBZ30P080FCC
△	16	Thermistor	AEX7004

(2) CONTRAST TABLE

VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-908RDS /HY/EW	VSX-908RDS /HY/GR	VSX-908RDS /HV	VSX-908RDS -G/HY	
	13	Screw	BBZ30P080FZK	BBZ30P080FZK	BBZ30P080FZK	BBZ30P080FCC	

2.4 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	H. PHONE/F. VIDEO Assy	AWX7342	26	LED Lens	PNW2019	
	2	DISPLAY Assy	AWX7414	27	Name Plate	See Contrast table (2)	
	3	ROTARY ENCODER Assy	AWX7405	28	Ring Spacer D5	AWL7038	
	4	Door Hinge L	See Contrast table (2)	29	FL Sheet D10	AAK7629	
	5	Door Hinge R	See Contrast table (2)	30	Volume Knob (MASTER VOLUME)	See Contrast table (2)	
NSP	6	Magnet Angle	ANG7241	31	Rotary Knob (INPUT SELECTOR)	See Contrast table (2)	
	7	Door Panel	See Contrast table (2)	32	Screw	ABA7053	
	8	•••••		33	Screw	PBA1096	
	9	•••••		34	Screw	BBZ30P060FCC	
	10	Door Sheet	See Contrast table (2)	35	Screw	BPZ30P080FMC	
	11	Display Panel	See Contrast table (2)	NSP	36	Screw	See Contrast table (2)
	12	•••••			37	Cord with Plug	ADH7020
	13	Power Button (STANDBY/ON)	See Contrast table (2)		38	Panel Base	See Contrast table (2)
	14	MR Button (MULTIROOM)	See Contrast table (2)		39	Magnet	AMF7002
	15	Lead Card 32P (J11)	ADD7159		40	Cord Clamper	RNH-184
	16	Lead Card 05P (J14)	ADD7162	41	P-SW Assy	AWX7330	
	17	Lead Card 06P (J20)	ADD7167	42	Power Button MG	See Contrast table (2)	
	18	•••••		43	Screw	See Contrast table (2)	
	19	Lead Card 12P (J21)	ADD7166	44	GND Spring	ABH7172	
	20	Damper Assy (60)	AXA7076	45	Screw	See Contrast table (2)	
	21	Sub Panel	See Contrast table (2)				
	22	Volume Ring	See Contrast table (2)				
	23	Nut	NK90FUC				
	24	Door Cusion	See Contrast table (2)				
	25	Front Panel	See Contrast table (2)				

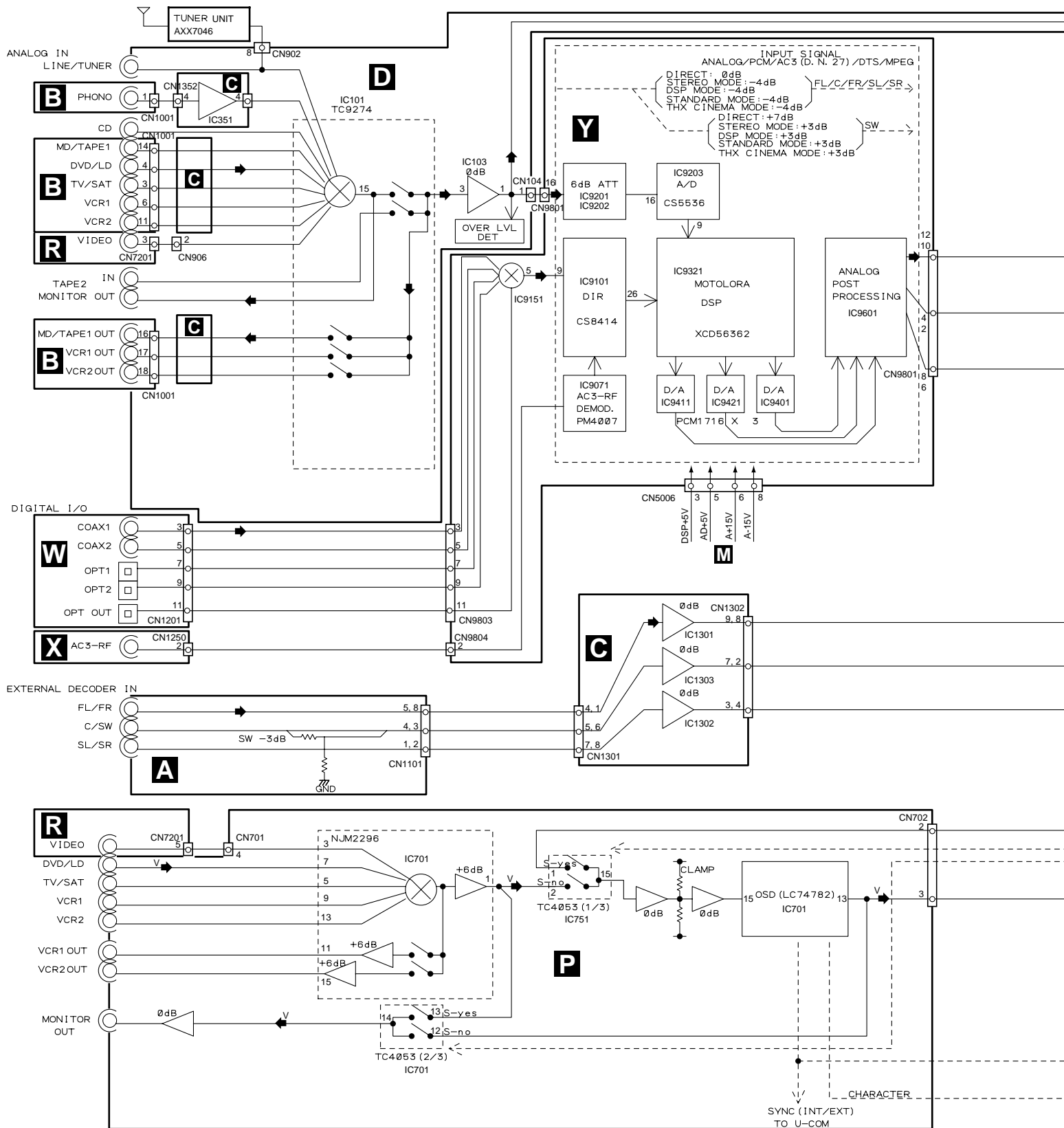
(2) CONTRAST TABLE

VSX-908RDS/HY/EW, HY/GR, HV and VSX-908RDS-G/HY are constructed the same except for the following :

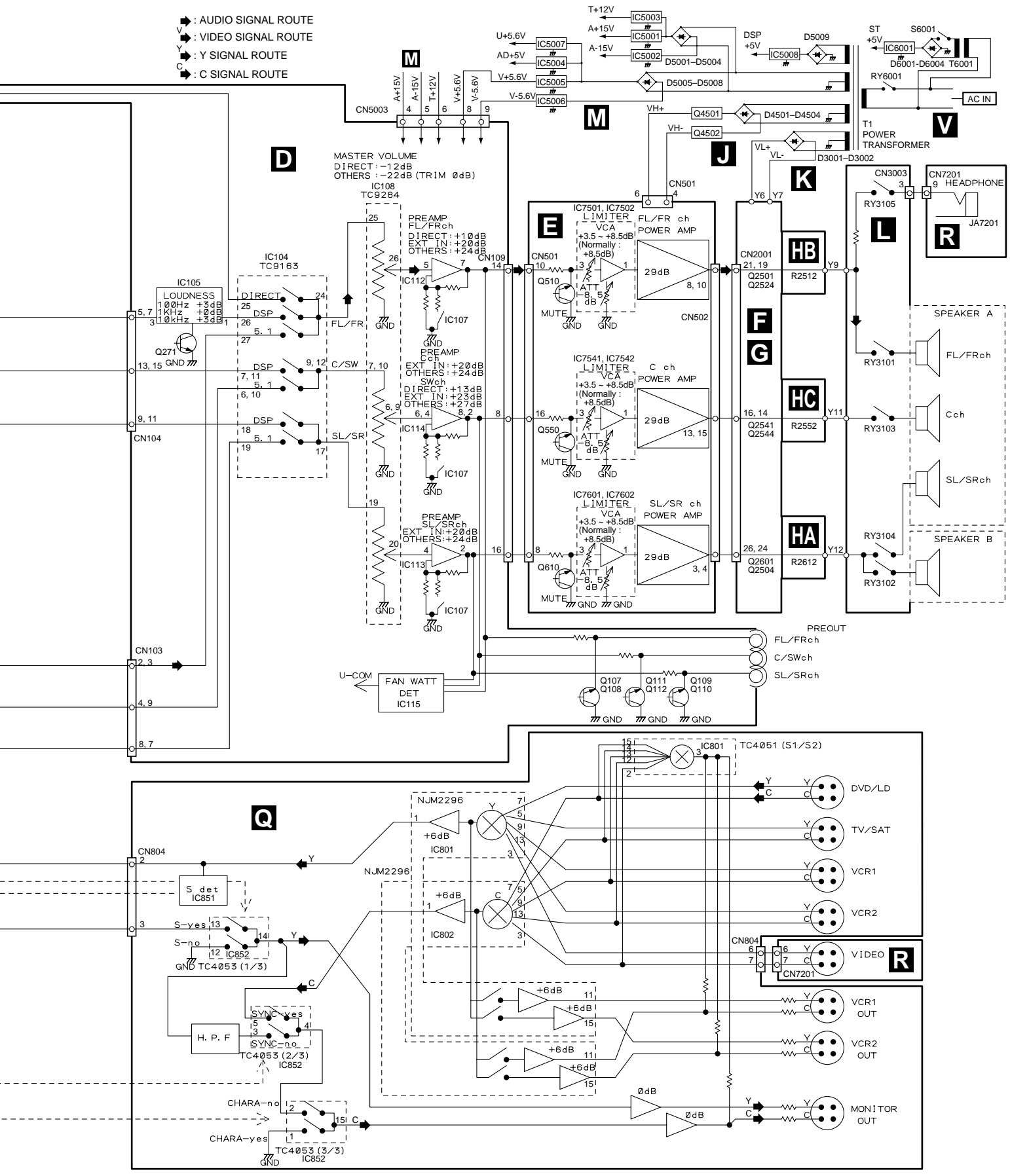
Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-908RDS /HY/EW	VSX-908RDS /HY/GR	VSX-908RDS /HV	VSX-908RDS -G/HY	
	4	Door Hinge 26 L	AMR7252	AMR7252	AMR7252	Not used	
	4	Door Hinge D10 L	Not used	Not used	Not used	AMR7250	
	5	Door Hinge 26 R	AMR7253	AMR7253	AMR7253	Not used	
	5	Door Hinge D10 R	Not used	Not used	Not used	AMR7251	
	7	Door Panel 98	ANB7199	ANB7199	ANB7199	Not used	
	7	Door Panel E07	Not used	Not used	Not used	ANB7175	
	10	Door Sheet 98R	AAK7664	AAK7664	AAK7664	Not used	
	10	Door Sheet 98RG	Not used	Not used	Not used	AAH7057	
	11	Display Panel SD	AAK7630	AAK7630	AAK7630	Not used	
	11	Display Panel SDG	Not used	Not used	Not used	AAK7631	
	13	Power Button	AAD7440	AAD7440	AAD7440	Not used	
	13	Power Button G	Not used	Not used	Not used	AAD7485	
	14	MR Button 26	AAD7514	AAD7514	AAD7514	Not used	
	14	MR Button G	Not used	Not used	Not used	AAD7541	
	21	Sub Panel 98	ANB7200	ANB7200	ANB7200	Not used	
	21	Sub Panel D8	Not used	Not used	Not used	ANB7207	
	22	Volume Ring 98	AAH7028	AAH7028	AAH7028	Not used	
	22	Volume Ring D10	Not used	Not used	Not used	AAH7016	
	24	Door Cusion B	AEB7152	AEB7152	AEB7152	Not used	
	24	Door Cusion G	Not used	Not used	Not used	AEB7153	
	25	Front Panel 908	ANB7173	ANB7173	ANB7173	Not used	
	25	Front Panel 98RG	Not used	Not used	Not used	ANB7176	
	27	Name Plate B	PAN1376	PAN1376	PAN1376	Not used	
	27	Name Plate G	Not used	Not used	Not used	PAN1377	
	30	Volume Knob 98	AAB7199	AAB7199	AAB7199	Not used	
	30	Volume Knob 98HL	Not used	Not used	Not used	AAB7210	
	31	Rotary Knob 29	AAB7221	AAB7221	AAB7221	Not used	
	31	Rotary Knob E07	Not used	Not used	Not used	AAB7209	
	36	Screw	BBZ30P080FZK	BBZ30P080FZK	BBZ30P080FZK	BBZ30P080FCC	
	38	Panel Base 98	AMB7637	AMB7637	AMB7637	Not used	
	38	Panel Base D8	Not used	Not used	Not used	AMB7572	
	42	Power Button M	AAD7442	AAD7442	AAD7442	Not used	
	42	Power Button MG	Not used	Not used	Not used	AAD7491	
	43	Screw	BBZ30P050FZK	BBZ30P050FZK	BBZ30P050FZK	BBZ30P050FMC	
	45	Screw	BBT30P080FZK	BBT30P080FZK	BBT30P080FZK	BBT30P080FCC	

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM



- : AUDIO SIGNAL ROUTE
- : VIDEO SIGNAL ROUTE
- : Y SIGNAL ROUTE
- : C SIGNAL ROUTE



3.2 OVERALL WIRING CONNECTION DIAGRAM

T ROTARY ENCODER ASSY (AWX7405)

S DISPLAY ASSY (AWX7414)

E (**E** 1/2, **E** 2/2)
V-AMP ASSY (AWX7309)

C-AMP-P ASSY (AWX7317)

- HE** OUTPUT-SR ASSY (AWX7323)
- HD** OUTPUT-FR ASSY (AWX7320)
- HC** OUTPUT-C ASSY (AWX7321)
- HB** OUTPUT-FL ASSY (AWX7319)
- HA** OUTPUT-SL ASSY (AWX7322)
- I** VL-TERMINAL ASSY (AWX7324)

M REGULATOR ASSY (AWX7310)

D (**D** 1/3-**D** 3/3)
MAIN CONTROL ASSY (AWX7410)

C CONNECTION ASSY (AWX7347)

P VIDEO ASSY (AWX7422)

Y (**Y** 1/5-**Y** 5/5)
DSP ASSY (AWX7272)

W DIGITAL-I/O ASSY (AWX7396)

X RF TERMINAL ASSY (AWX7376)

A EXTERNAL IN ASSY (AWX7413)

B A-PINJACK ASSY (AWX7412)

A

B

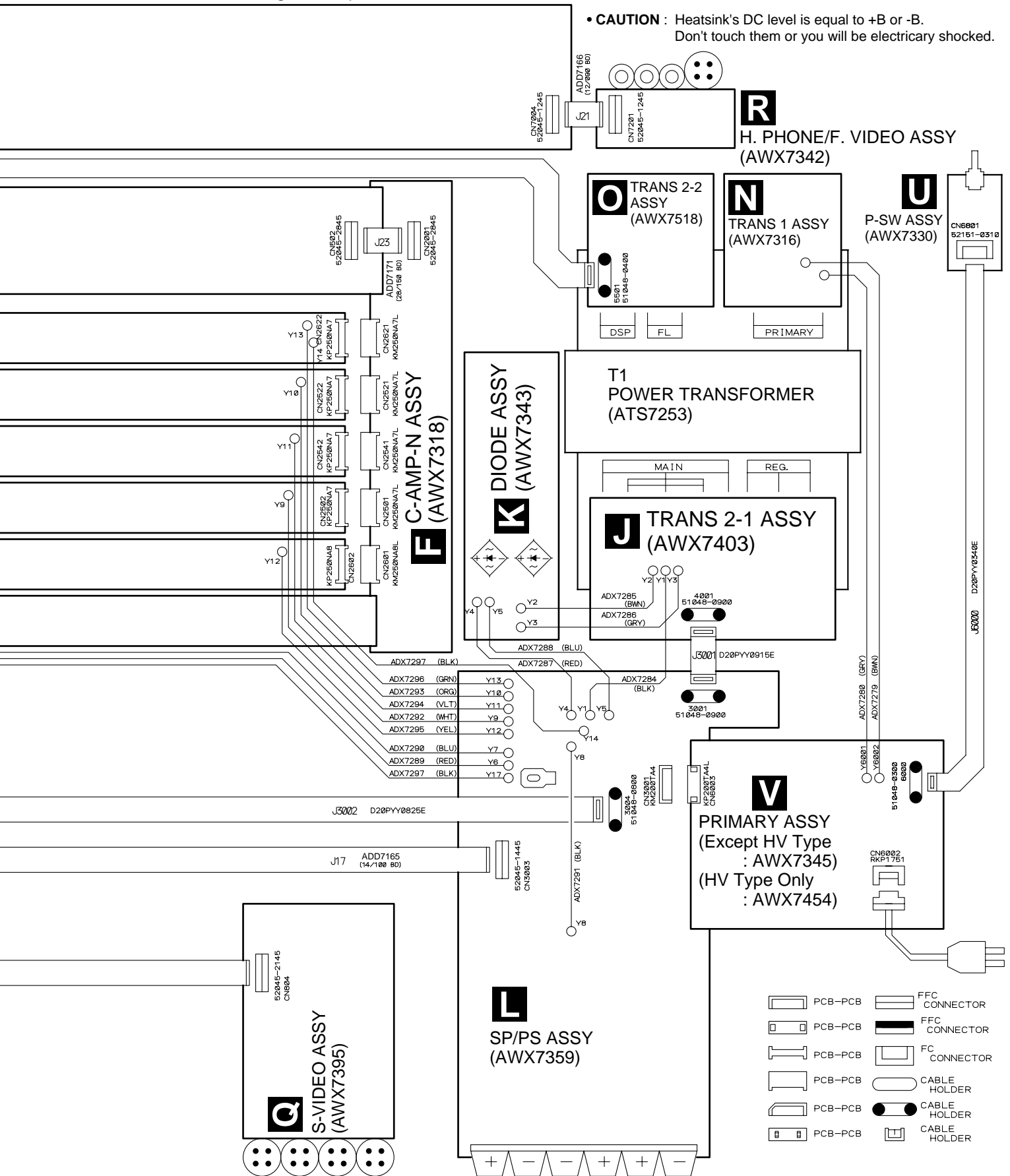
C

D

VSX-908RDS, VSX-908RDS-G

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

CAUTION : Heatsink's DC level is equal to +B or -B.
Don't touch them or you will be electrically shocked.



A

B

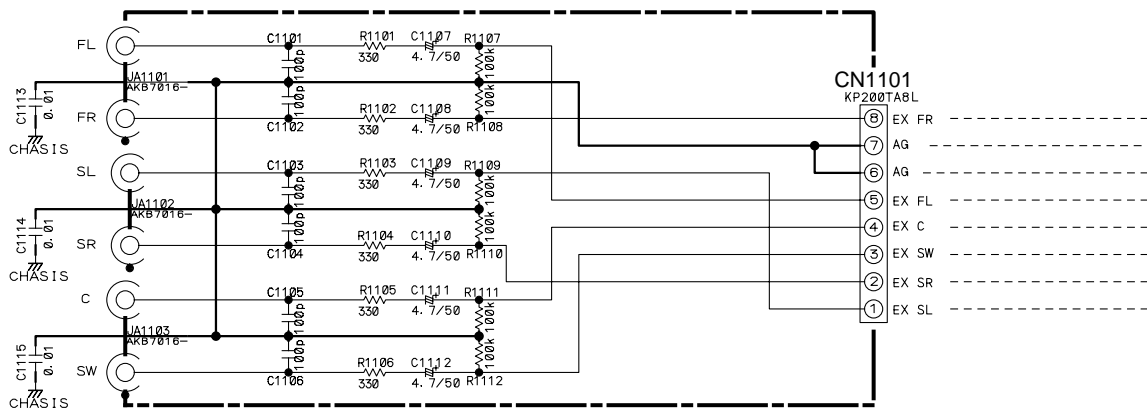
C

D

3.3 EXTERNAL IN, A-PINJACK and CONNECTION ASSYS

A
EXTERNAL IN ASSY
 (AWX7413)

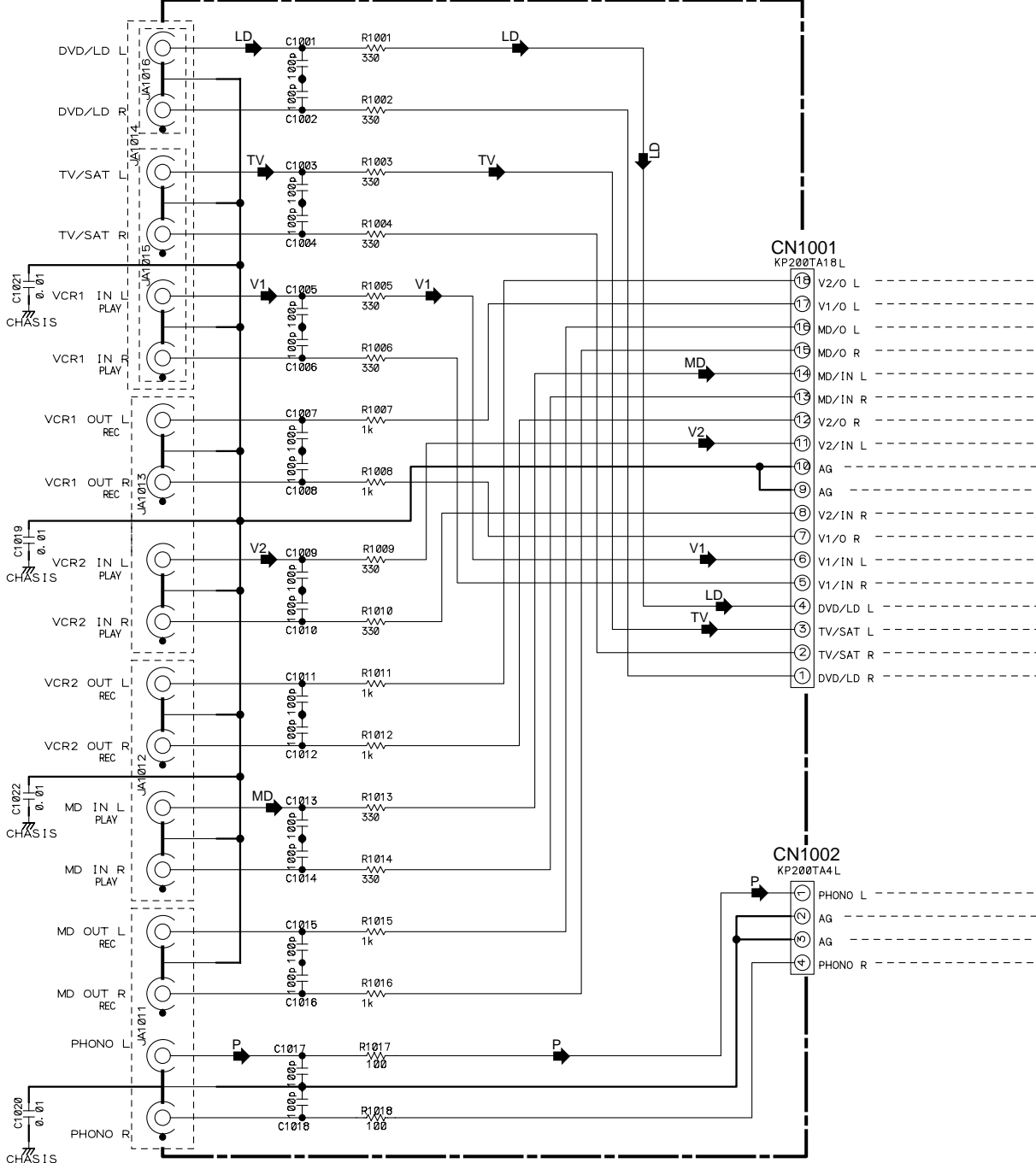
JA1101-JA1103 :
 AKB7095



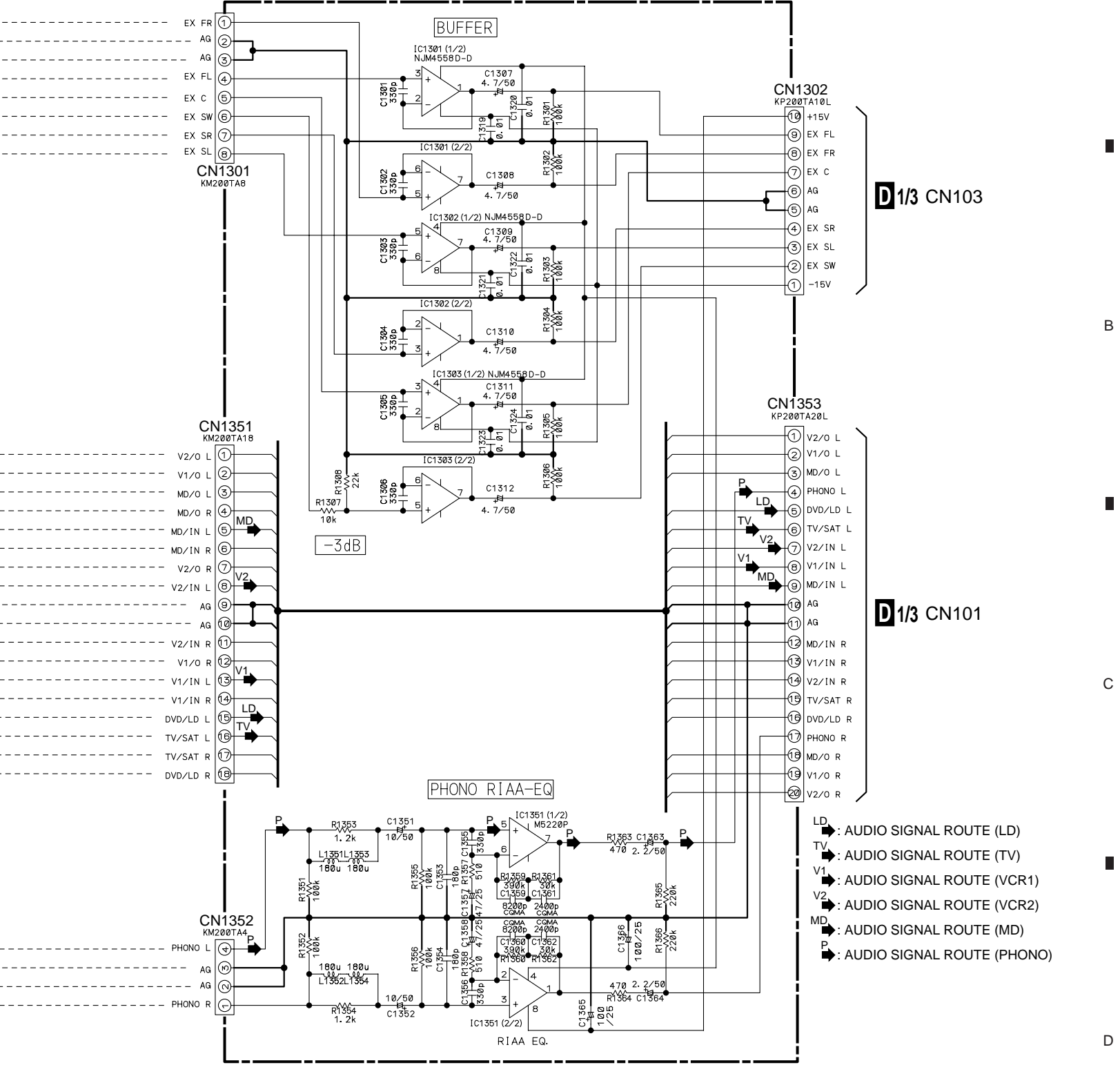
B
A-PINJACK ASSY
 (AWX7412)

JA1015: AKB7048
 JA1016: AKB7120

JA1011-JA1013 :
 AKB7048




C CONNECTION ASSY (AWX7347)



- 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)



3.4 MAIN CONTROL ASSY (1/3)

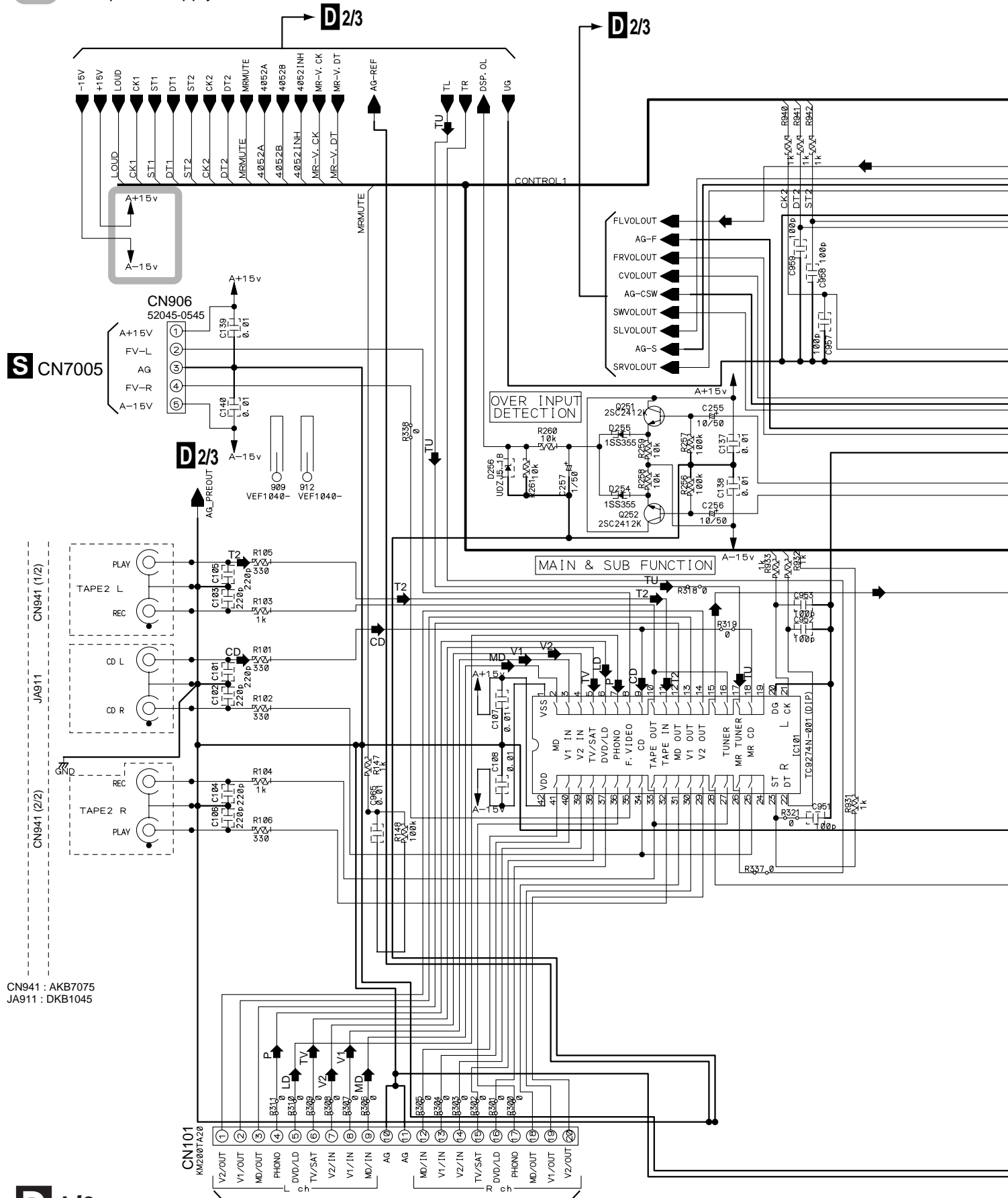
 : The power supply is shown with the marked box.

A

B

C

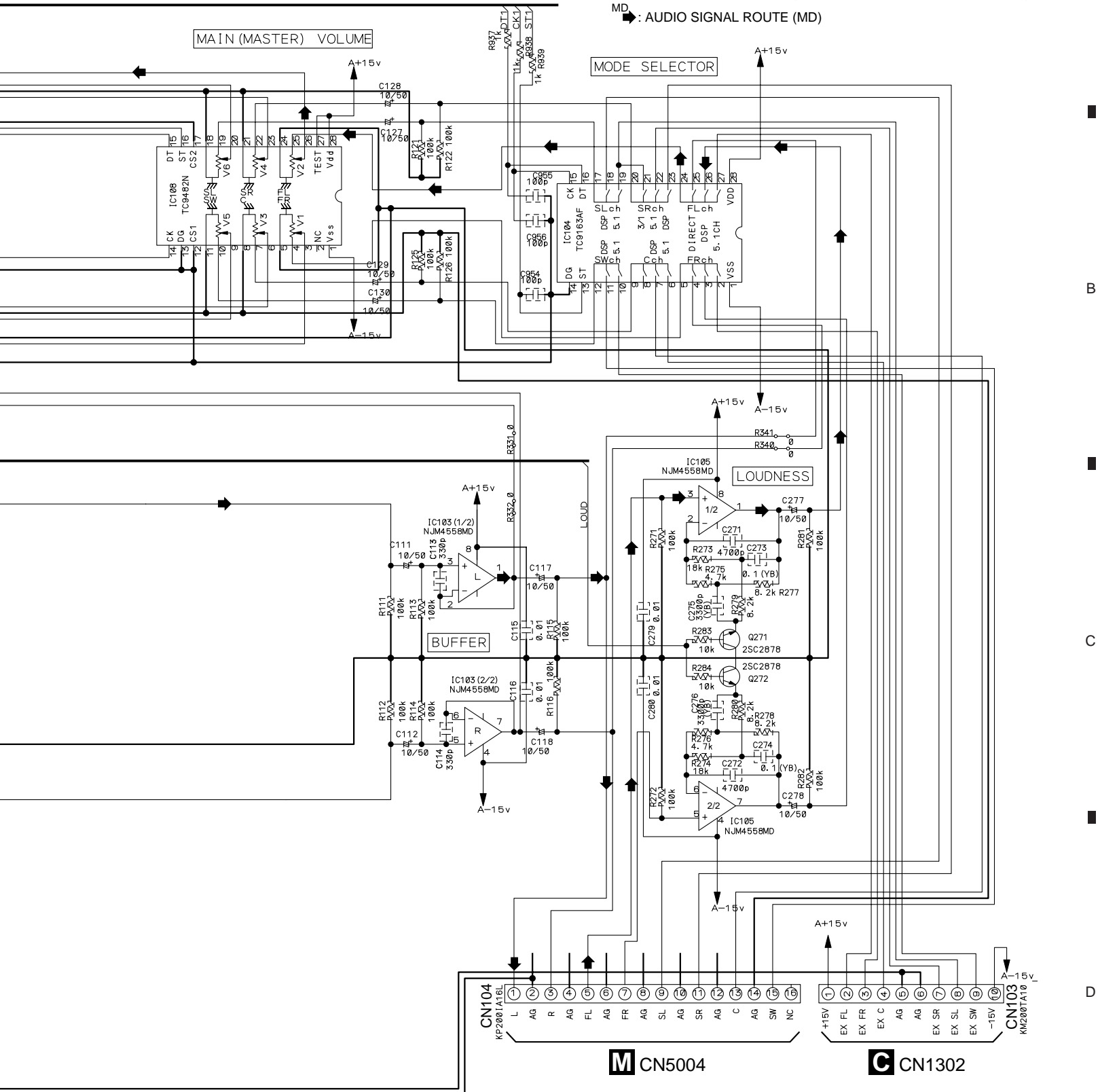
D



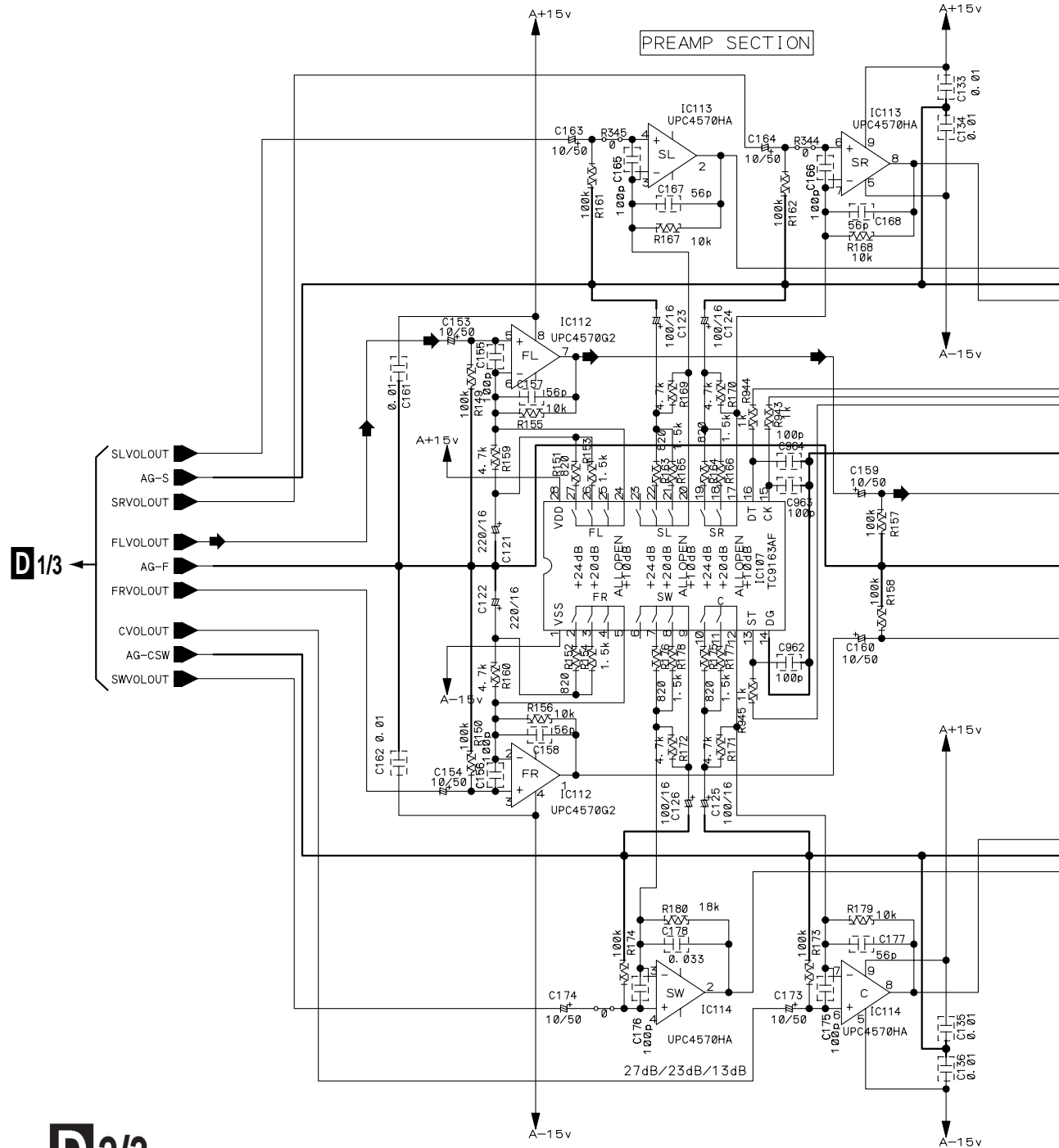
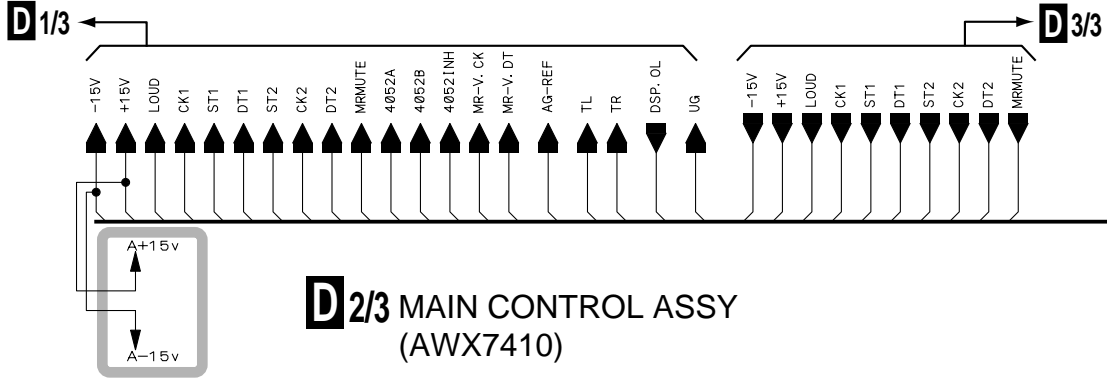
CN941 : AKB7075
JA911 : DKB1045

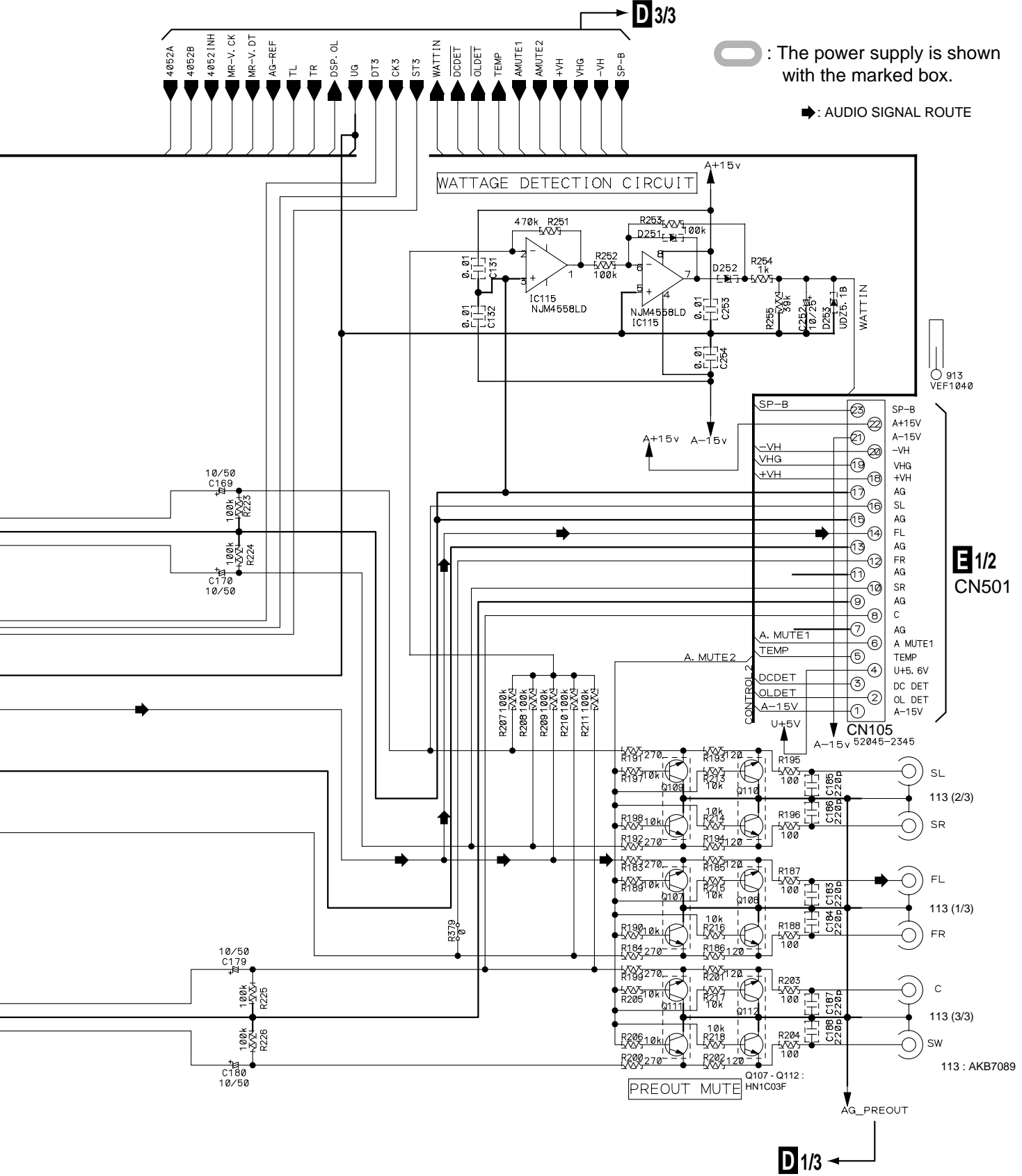
D1/3 MAIN CONTROL ASSY (AWX7410)

- 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)
- MR : AUDIO SIGNAL ROUTE (MR)



3.5 MAIN CONTROL ASSY (2/3)





: The power supply is shown with the marked box.

: AUDIO SIGNAL ROUTE

E 1/2
CN501

D 1/3

D 2/3

3.6 MAIN CONTROL ASSY (3/3)

A

B

C

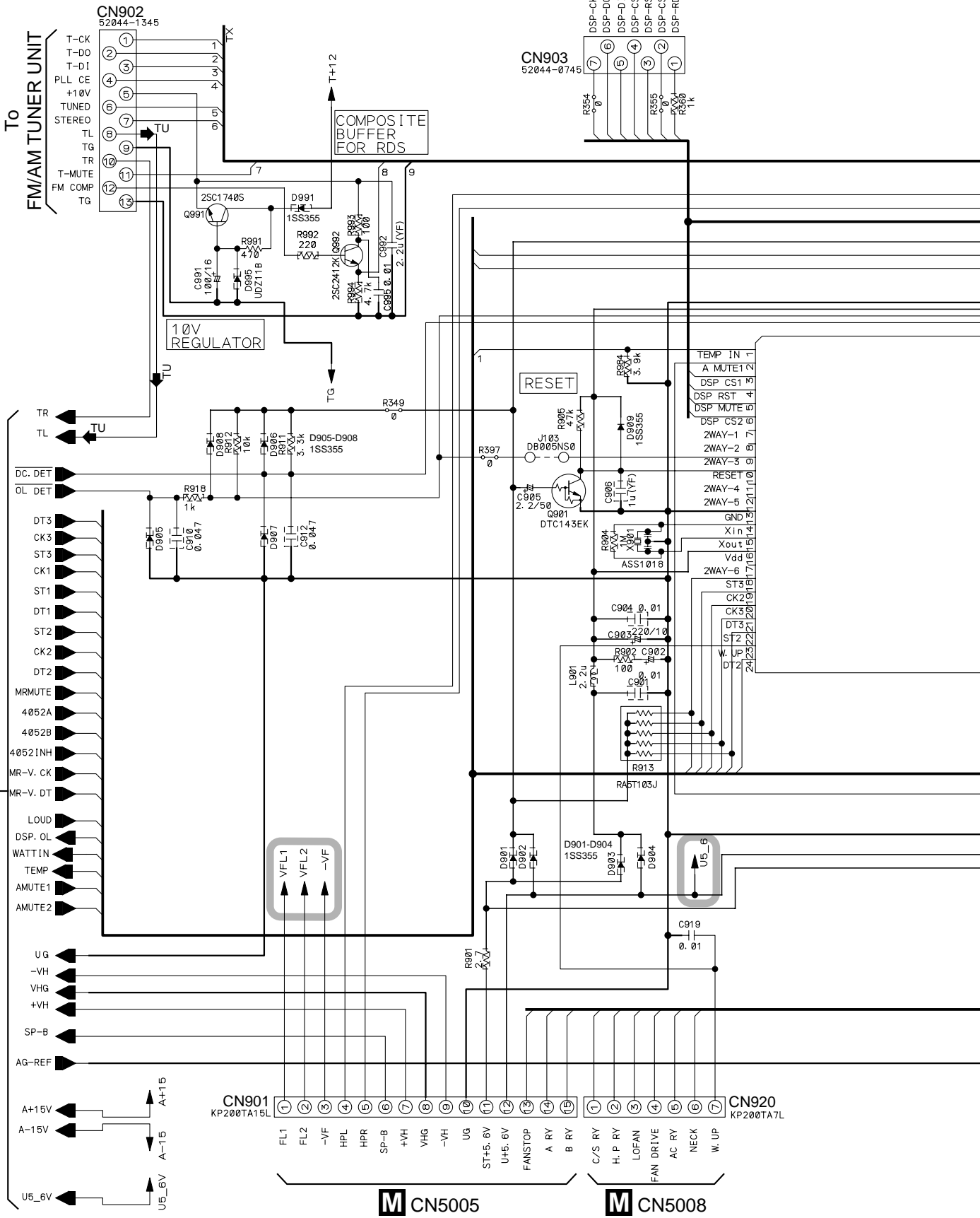
D

Y 4/5 CN9551

D 2/3

M CN5005

M CN5008

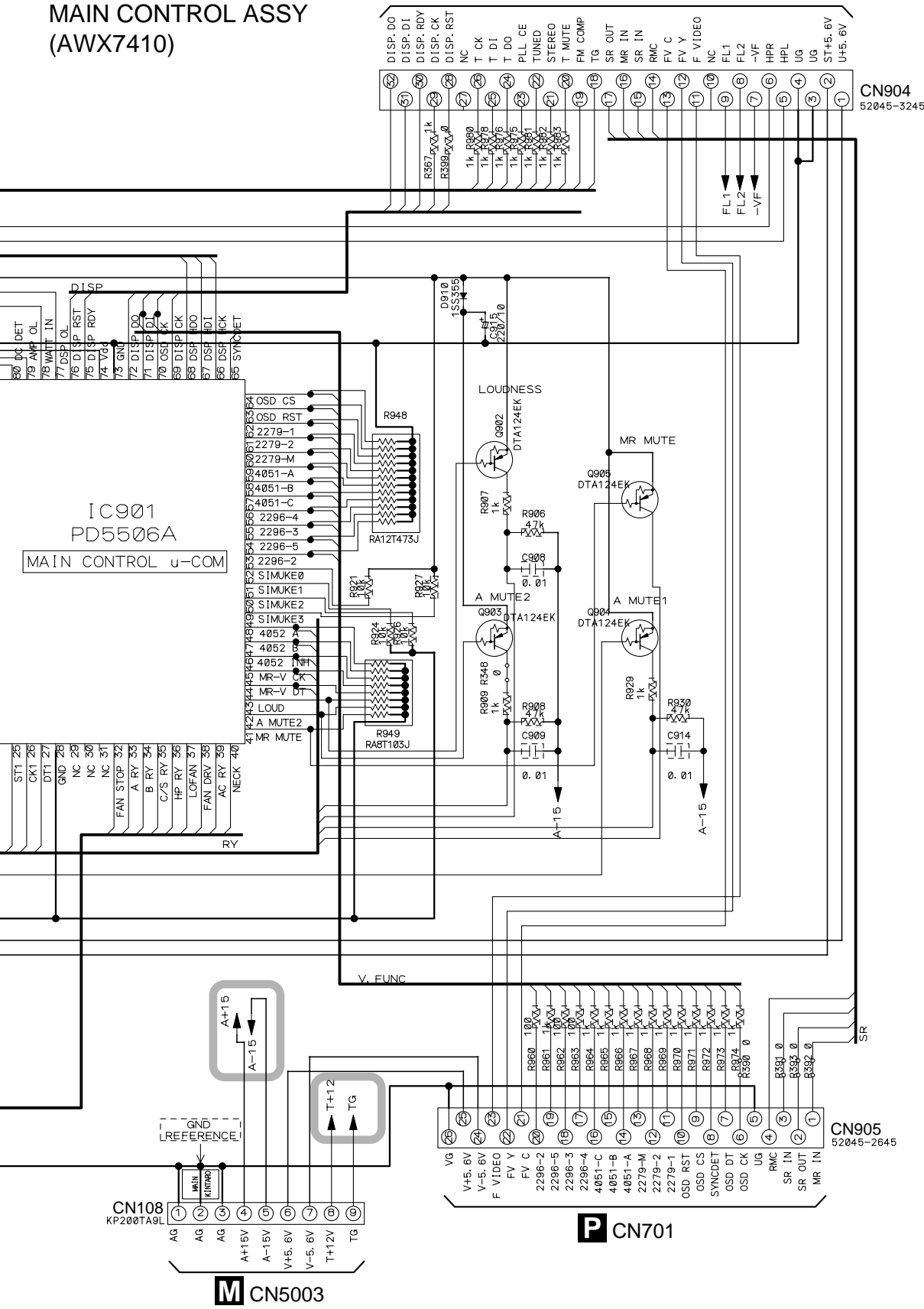


V SX-908RDS, V SX-908RDS-G

O : The power supply is shown with the marked box.

D3/3 MAIN CONTROL ASSY (AWX7410)

S CN7001



M CN5003

P CN701

3.7 V-AMP ASSY (1/2)

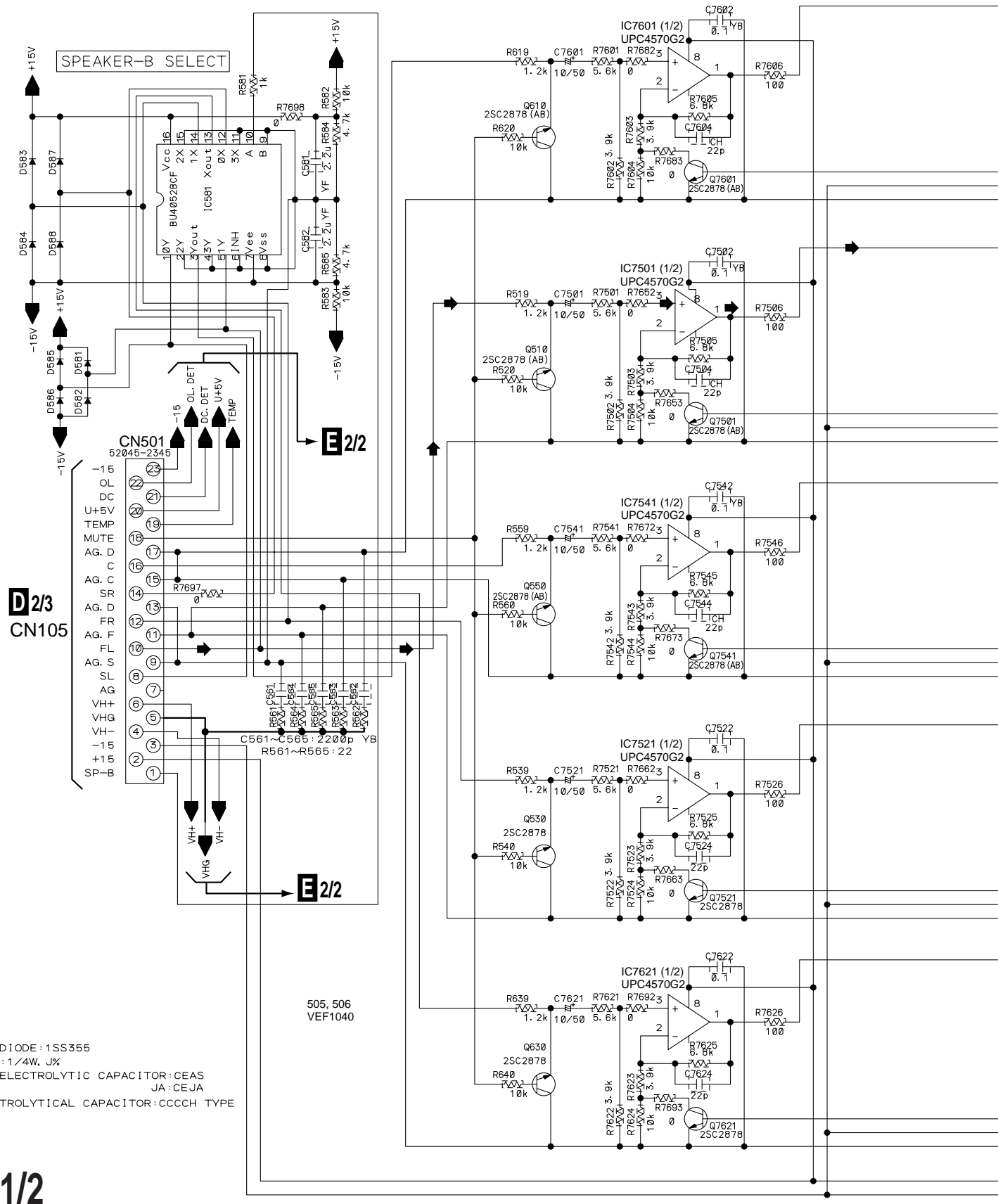
E 1/2 V-AMP ASSY
(AWX7309)

A

B

C

D



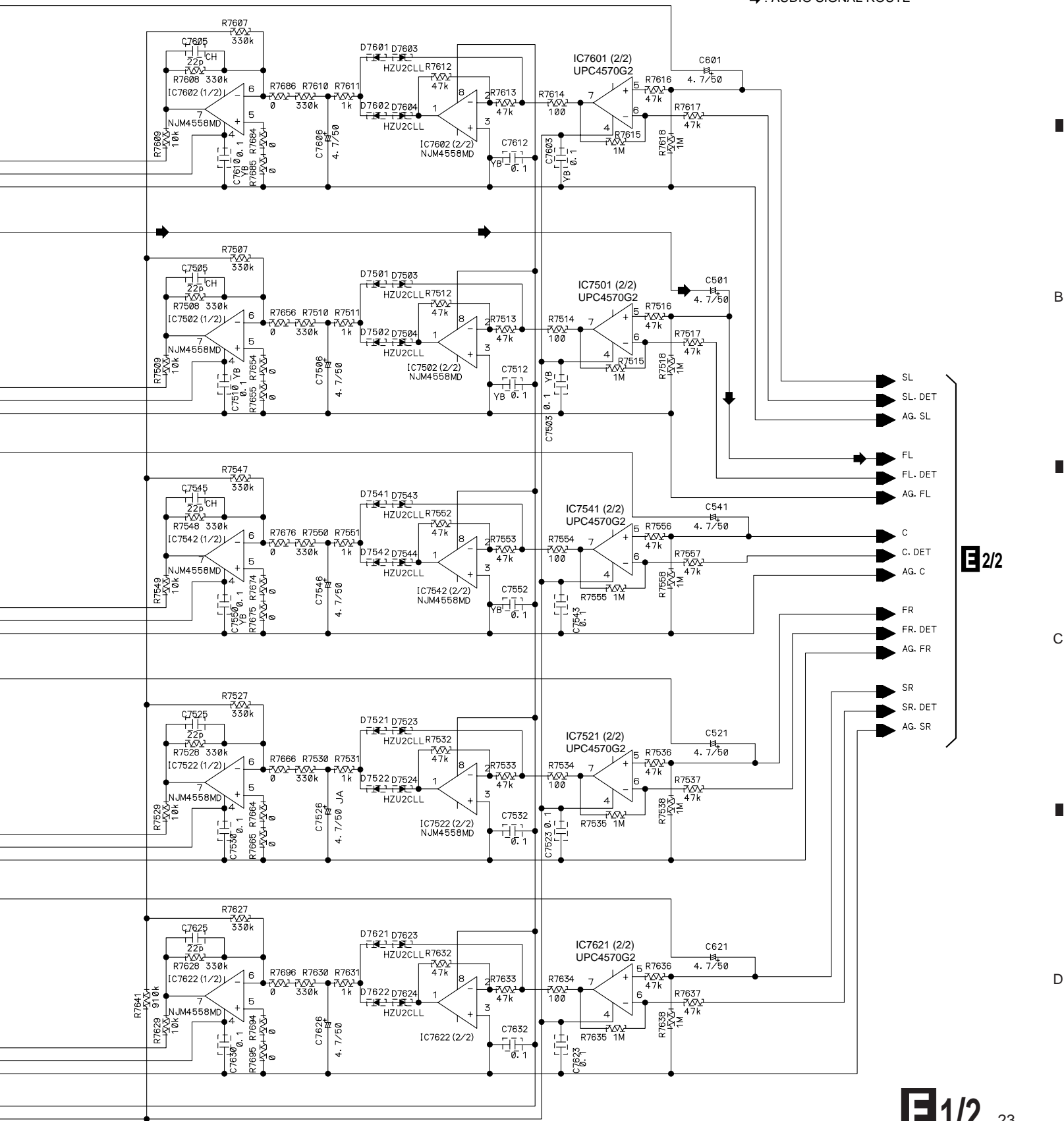
D 2/3
CN105

505, 506
VEF1040

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

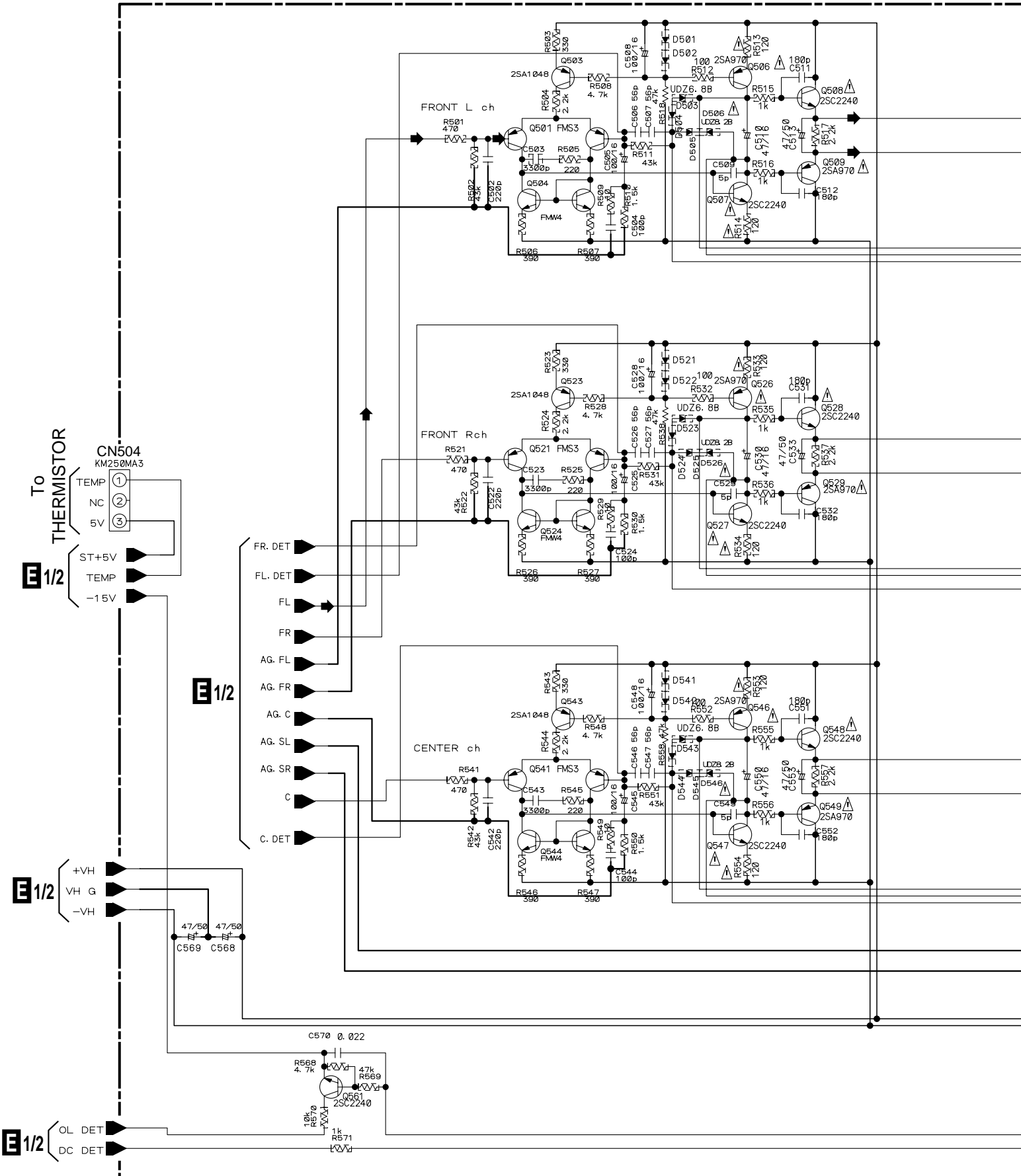
MAIN CHANNEL LIMITER

➔ : AUDIO SIGNAL ROUTE



E 2/2

3.8 V-AMP ASSY (2/2)



E 2/2 V-AMP ASSY (AWX7309)

POWER AMP VOLTAGE AMPLIFYING STAGE

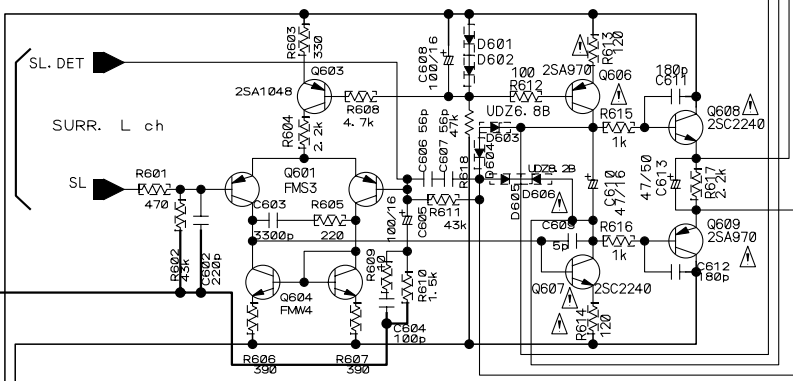
➔: AUDIO SIGNAL ROUTE

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

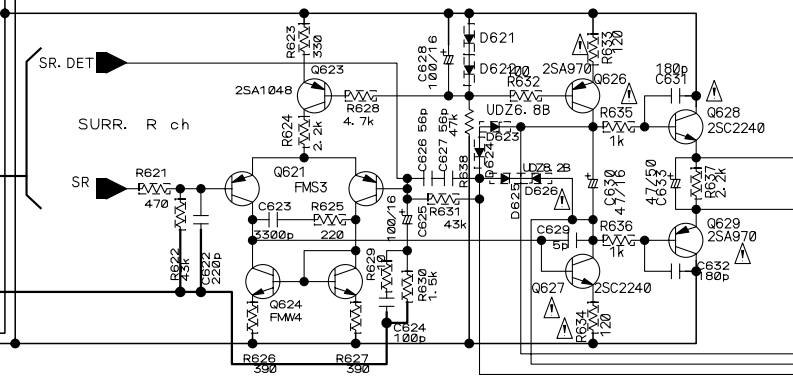
CN502
52045-2845

- | | | | |
|----|-----|---|--------|
| 1 | BI+ | } | SL |
| 2 | BI- | | |
| 3 | G- | | |
| 4 | NFB | } | FL |
| 5 | G+ | | |
| 6 | BI+ | | |
| 7 | BI- | } | C |
| 8 | G- | | |
| 9 | NFB | | |
| 10 | G+ | } | FR |
| 11 | B+ | | |
| 12 | B- | | |
| 13 | G- | } | SR |
| 14 | NFB | | |
| 15 | G+ | | |
| 16 | BI+ | } | AMP G |
| 17 | BI- | | |
| 18 | G- | | |
| 19 | NFB | } | DC DET |
| 20 | G+ | | |
| 21 | BI+ | | |
| 22 | BI- | } | OL DET |
| 23 | G- | | |
| 24 | NFB | | |
| 25 | G+ | } | AMP G |
| 26 | BI+ | | |
| 27 | BI- | | |
| 28 | G- | } | DC DET |
| 29 | NFB | | |
| 30 | G+ | | |

E 1/2



E 1/2

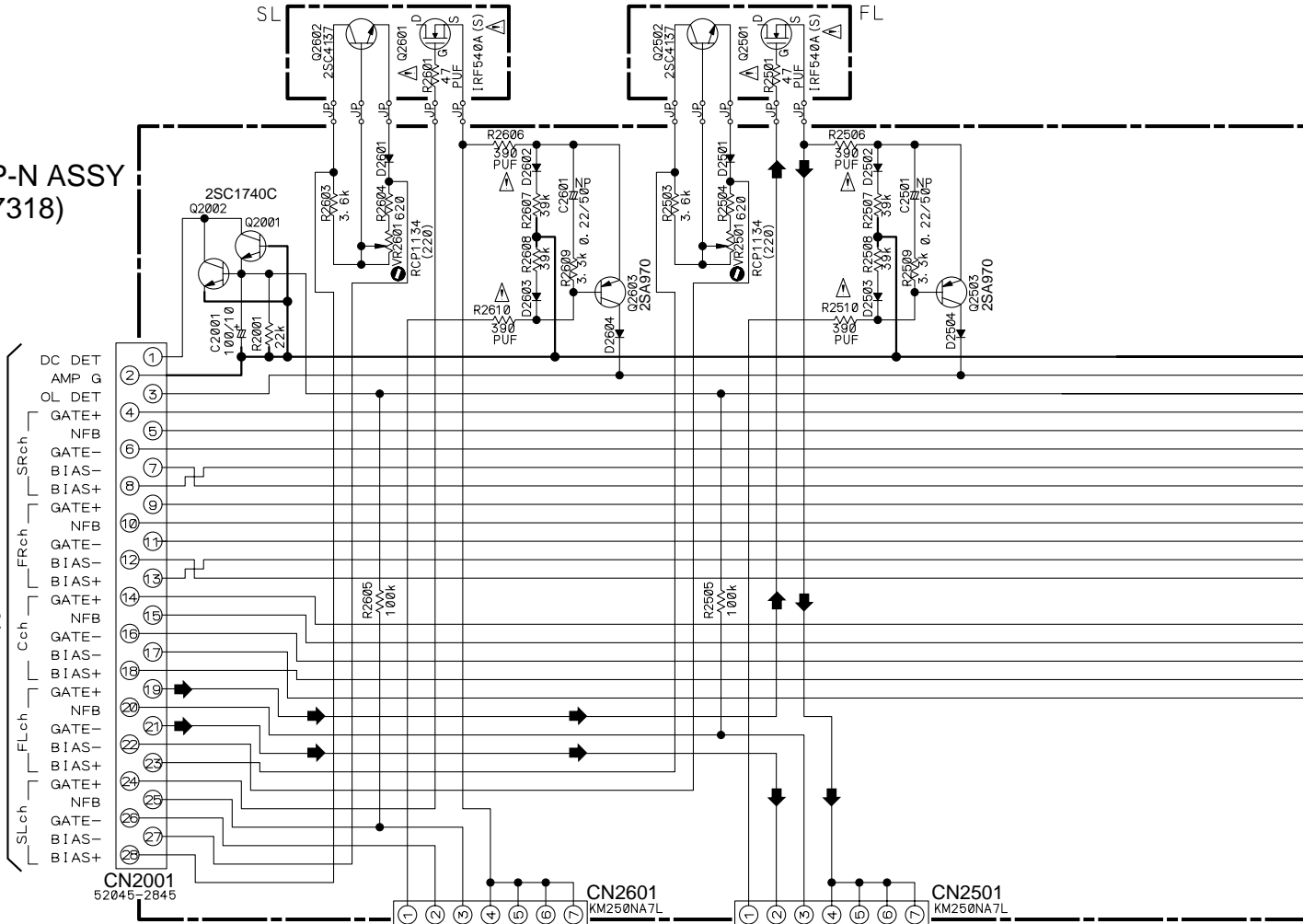


F
CN2001

3.9 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS

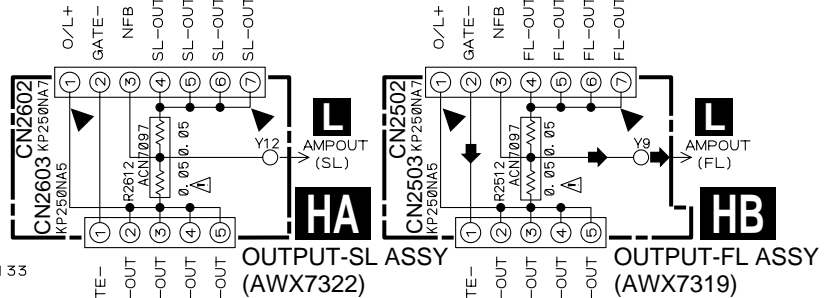
F
C-AMP-N ASSY (AWX7318)

E 2/2
CN502

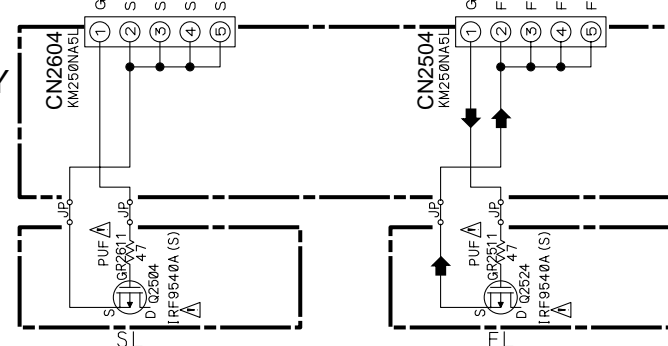


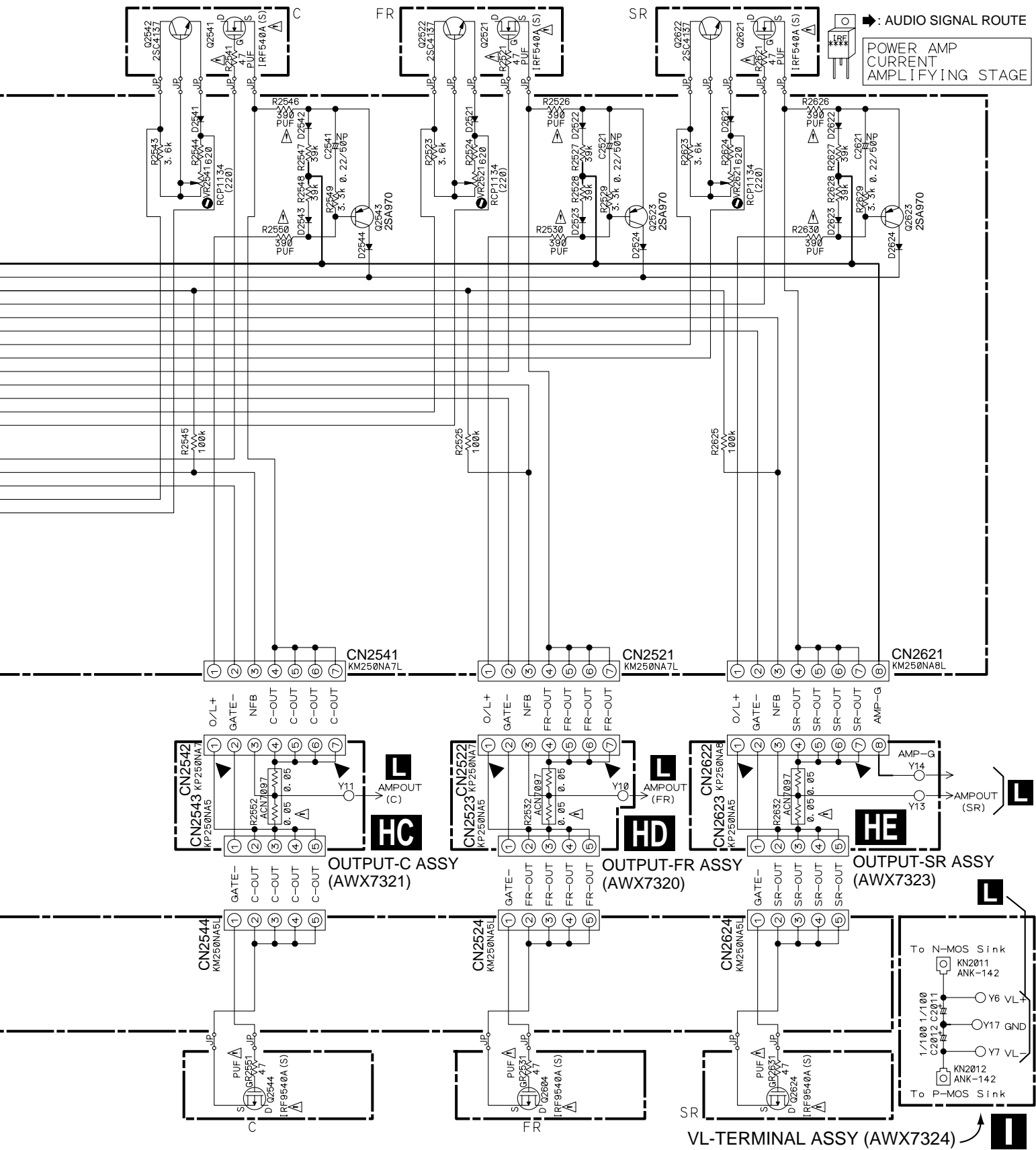
PUF: RD1/4PUF***J-T
 NON FRAMABLE TYPE

DIODES WITHOUT INDICATION: 1SS133



G
C-AMP-P ASSY (AWX7317)





3.10 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 "

J
TRANS 2-1 ASSY
(AWX7403)

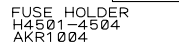
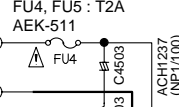
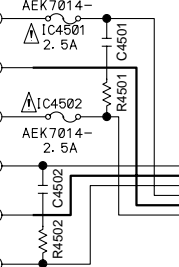
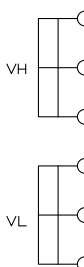
K DIODE ASSY
(AWX7343)

HE

TRANS SECONDARY

R4501-R4503 : 22
C4501-C4502 : 0.033/250

POWER TRANSFORMER



D4505	MTZJ20A
D4508	
D4509	MTZJ12B
D4510	

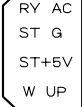
AMP FOR POWER AMP VOLTAGE AMPLIFYING STAGE " VH "

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).

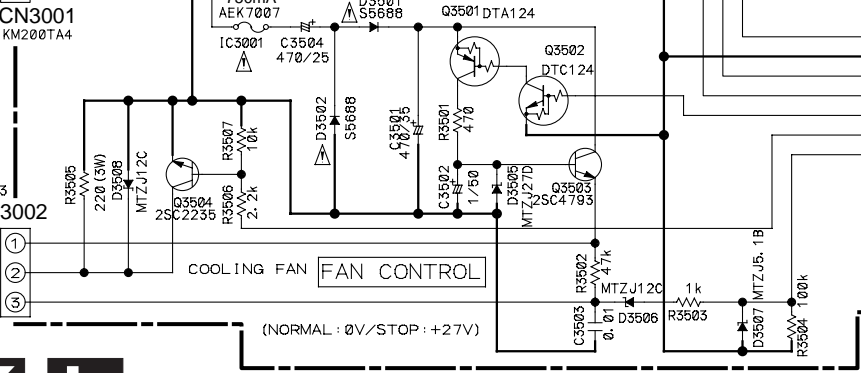
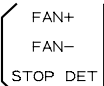
V
CN6003



CN3001 KM200TA4

CN3002 KM250MA3

TO FAN

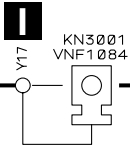


(NORMAL : 0V/STOP : +2.7V)

J K L

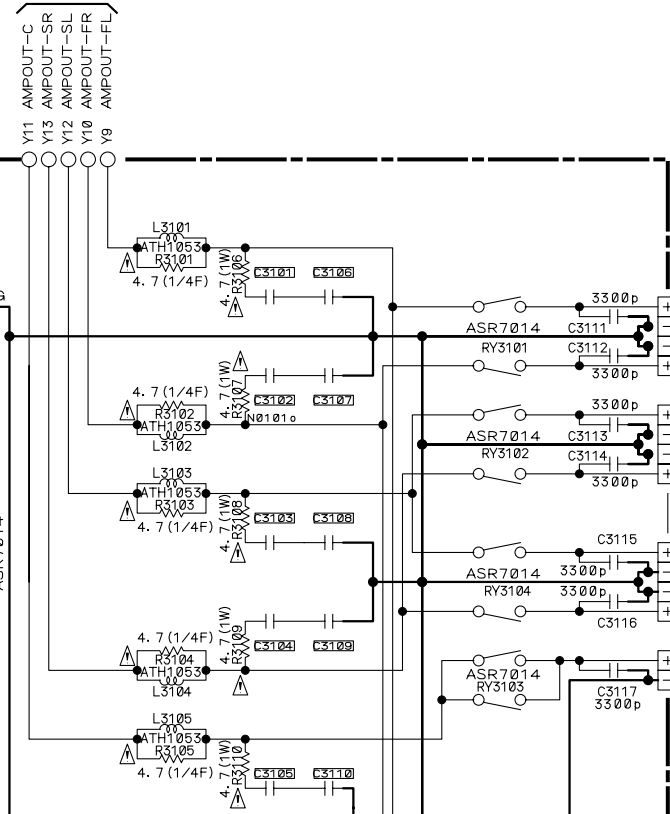
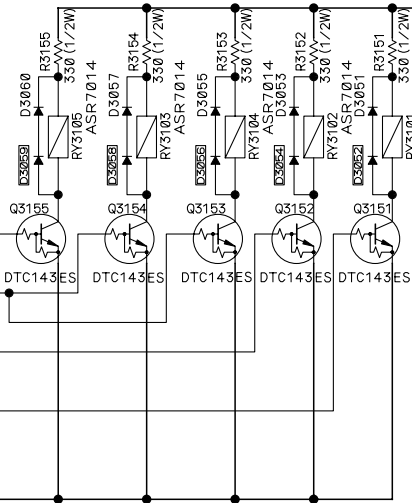
HA - HE

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

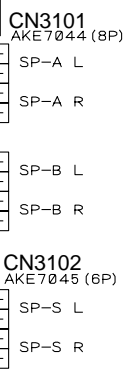


SP/PS ASSY (AWX7359)

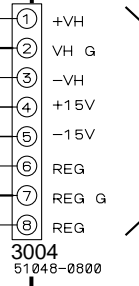
SPEAKER RELAY



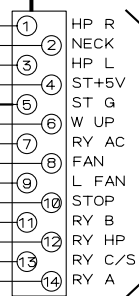
C3101	}	CFTYA224J50
C3105		
C3106	}	CFTYA224J50
C3110		



M CN5001



M CN5002

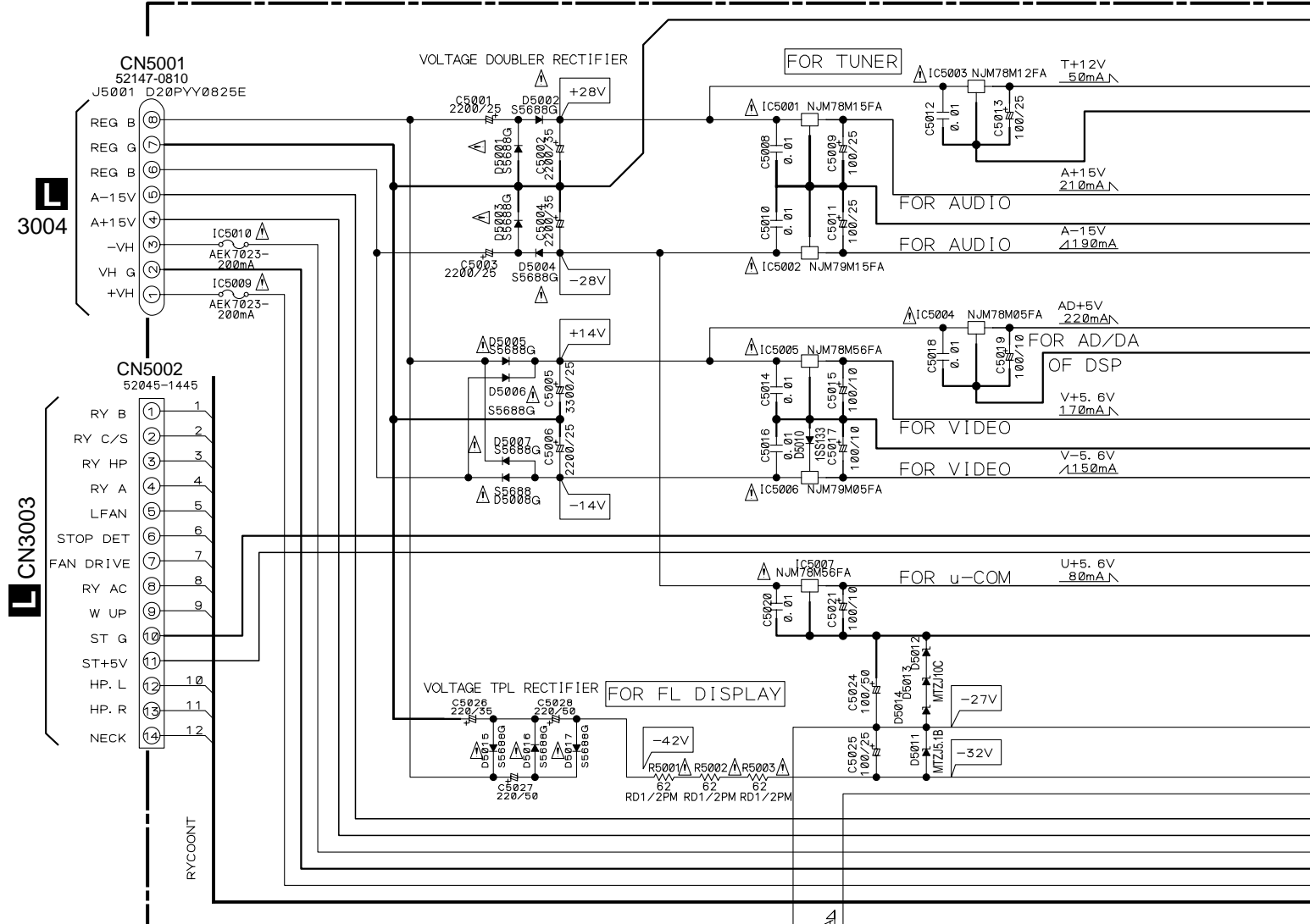


CN3003 52045-1445

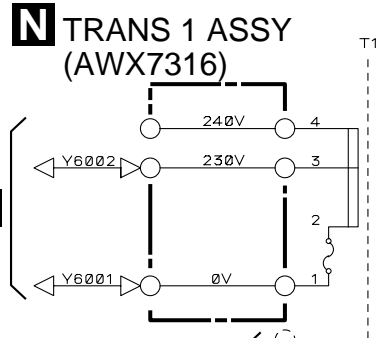


3.11 REGULATOR, TRANS 1 and TRANS 2-2 ASSYS

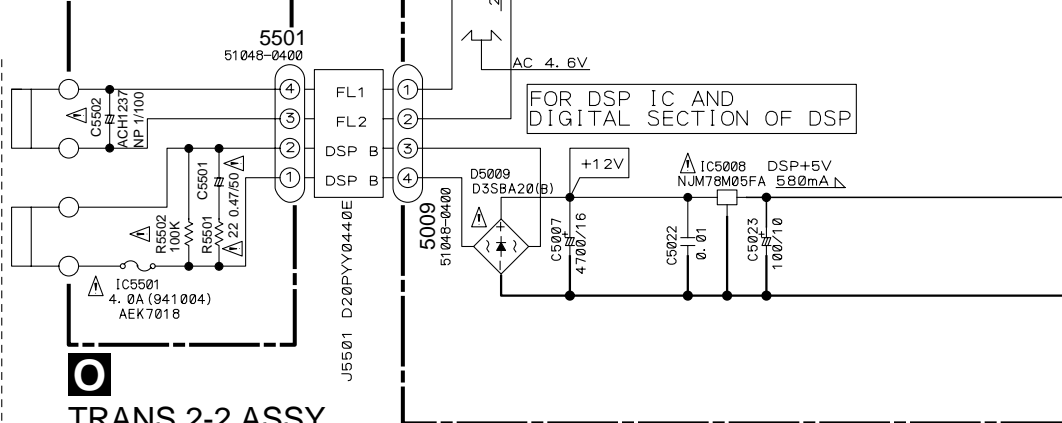
M REGULATOR ASSY (AWX7310)



N TRANS 1 ASSY (AWX7316)



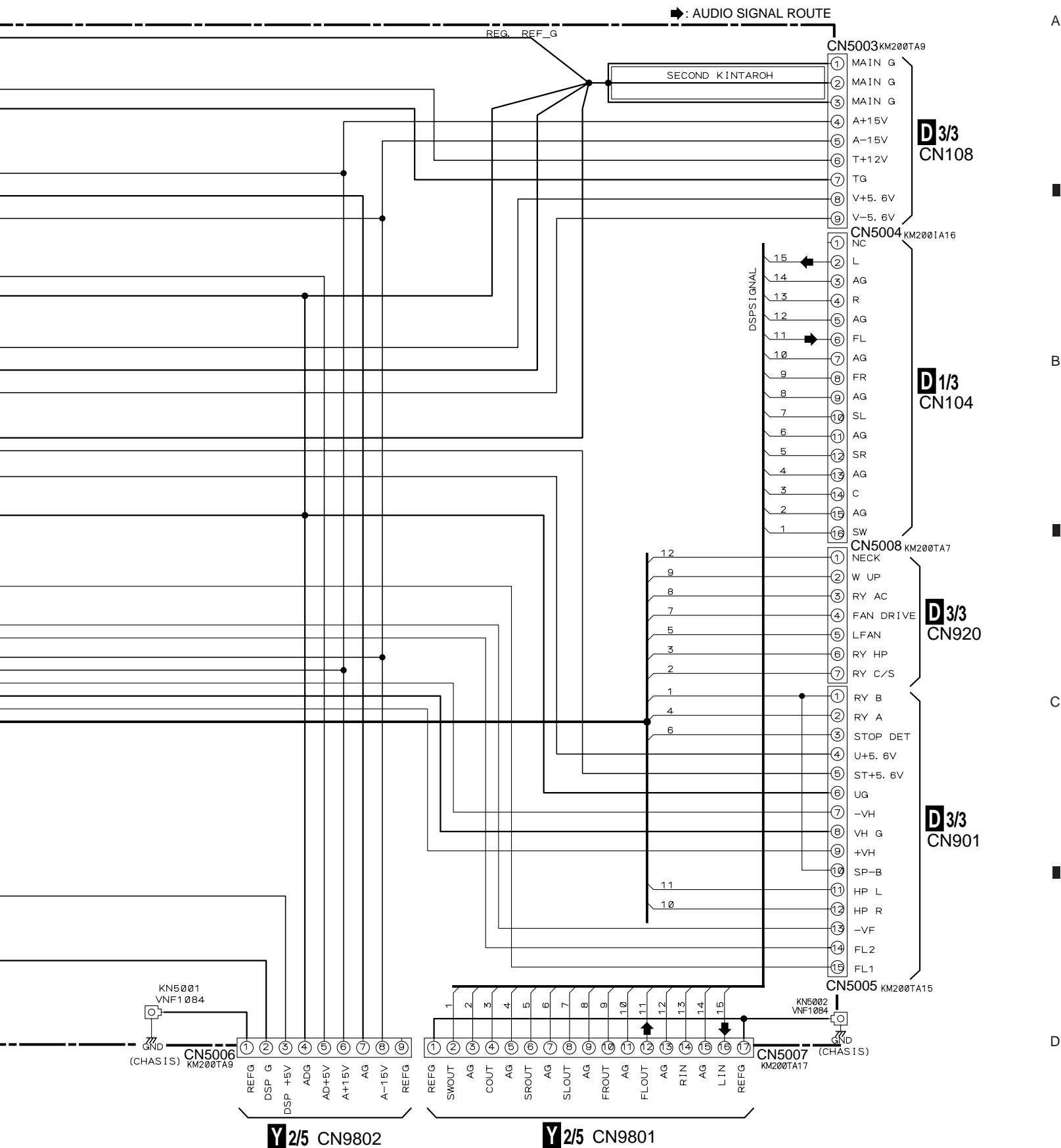
O TRANS 2-2 ASSY (AWX7518)



J POWER TRANSFORMER

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. 491004 MFD, BY LITTELFUSE INC. FOR IC5501 (AEK7018).



Y 2/5 CN9802

Y 2/5 CN9801

D 3/3 CN108

D 1/3 CN104

D 3/3 CN920

D 3/3 CN901

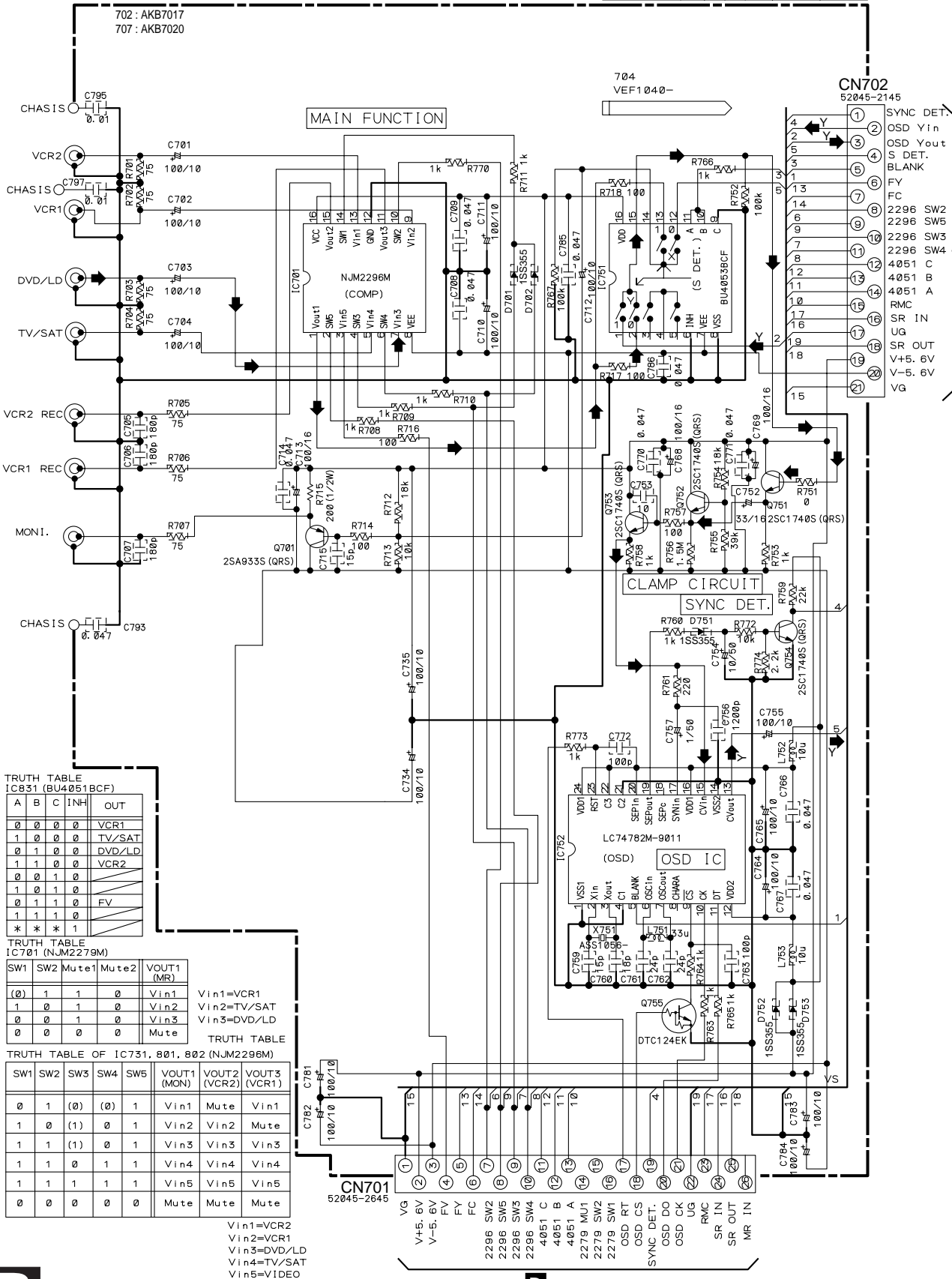


3.12 VIDEO and S-VIDEO ASSYS

P VIDEO ASSY (AWX7422)

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	
1	0	1	0	
0	1	1	0	FV
1	1	1	0	
*	*	*	1	

TRUTH TABLE IC701 (NJM2279M)

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

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

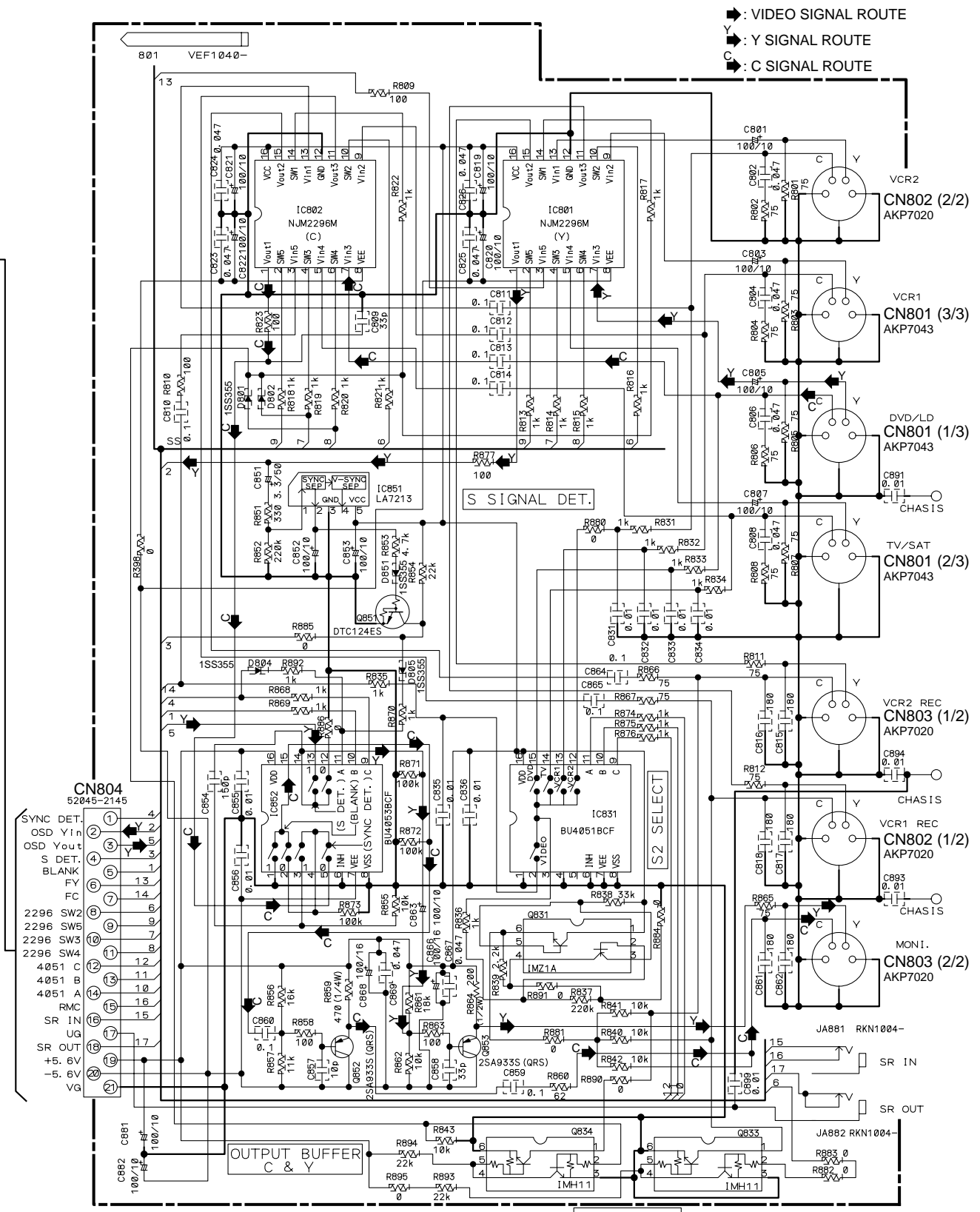
TRUTH TABLE OF IC731, 801, 802 (NJM2296M)

SW1	SW2	SW3	SW4	SW5	VOUT1 (VCR2)	VOUT2 (MON)	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



S-VIDEO ASSY (AWX7395)



◆ : VIDEO SIGNAL ROUTE
 Y : Y SIGNAL ROUTE
 C : C SIGNAL ROUTE

- CN804**
52045-2145
- 1 SYNC DET.
 - 2 OSD Yin
 - 3 OSD Yout
 - 4 S DET.
 - 5 BLANK
 - 6 FY
 - 7 FC
 - 8 2296 SW2
 - 9 2296 SW5
 - 10 2296 SW3
 - 11 2296 SW4
 - 12 4051 C
 - 13 4051 B
 - 14 4051 A
 - 15 RMC
 - 16 SR IN
 - 17 UG
 - 18 SR OUT
 - 19 +5.6V
 - 20 -5.6V
 - 21 VG

FOR ISOLATOR (0 OHM)

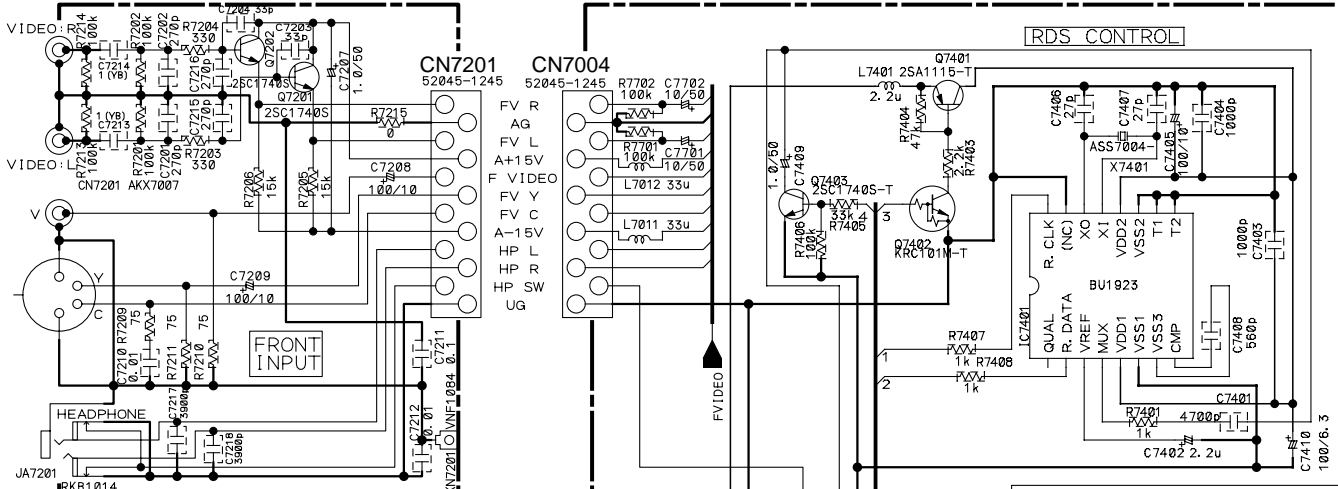
C REC MUTE

- R771 R887
- R775 R888
- R776 R889
- R777
- R778

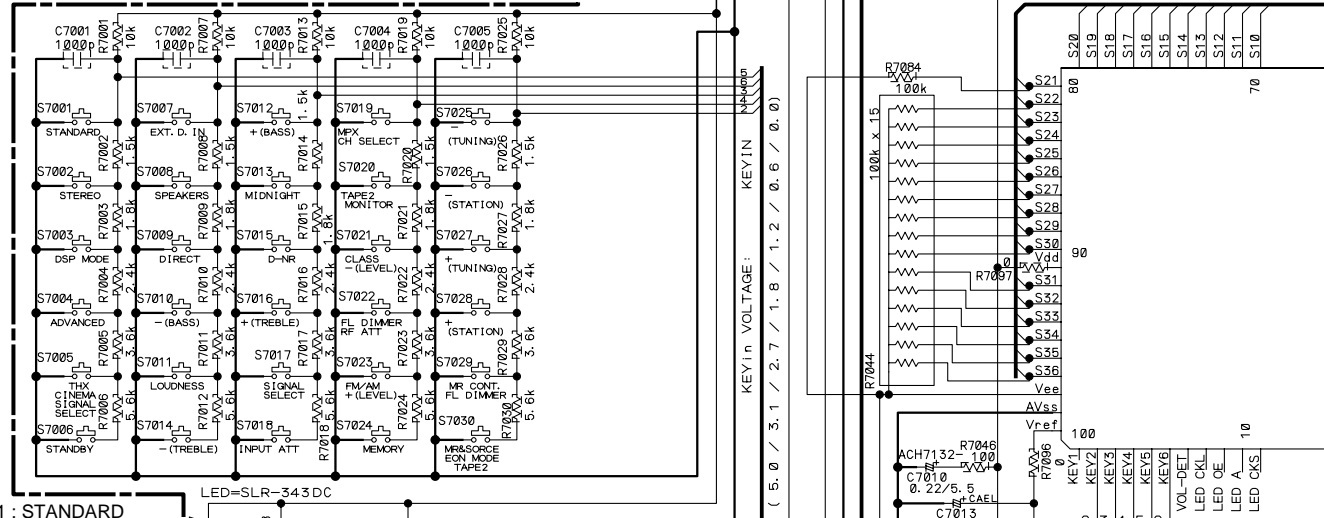


3.13 H. PHONE/F. VIDEO, DISPLAY and ROTARY ENCODER ASSYS

R H. PHONE/F. VIDEO ASSY (AWX7342)



B

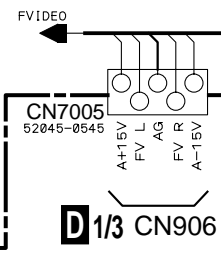


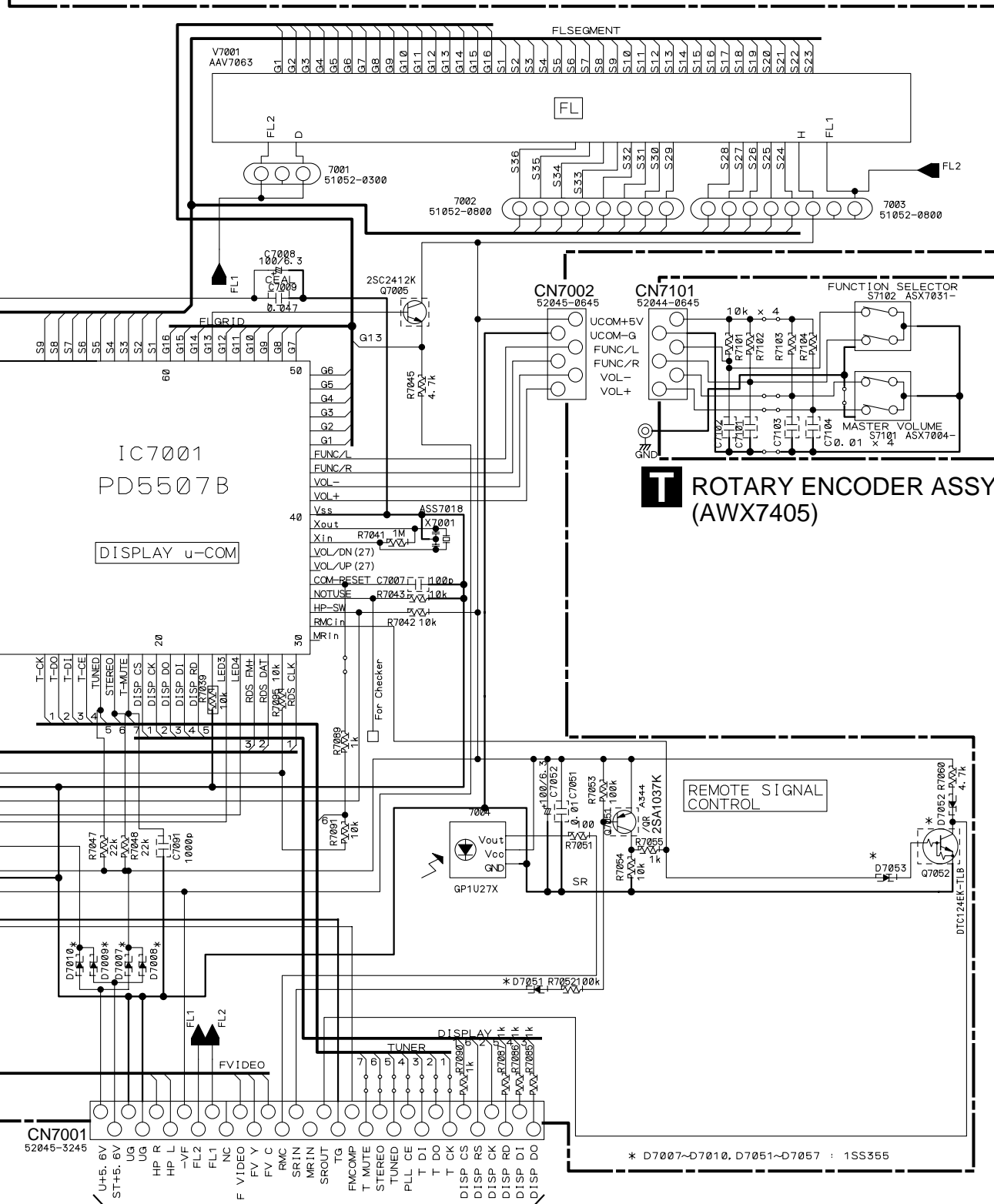
C

- 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

S DISPLAY ASSY (AWX7414)

D





D3/3 CN904



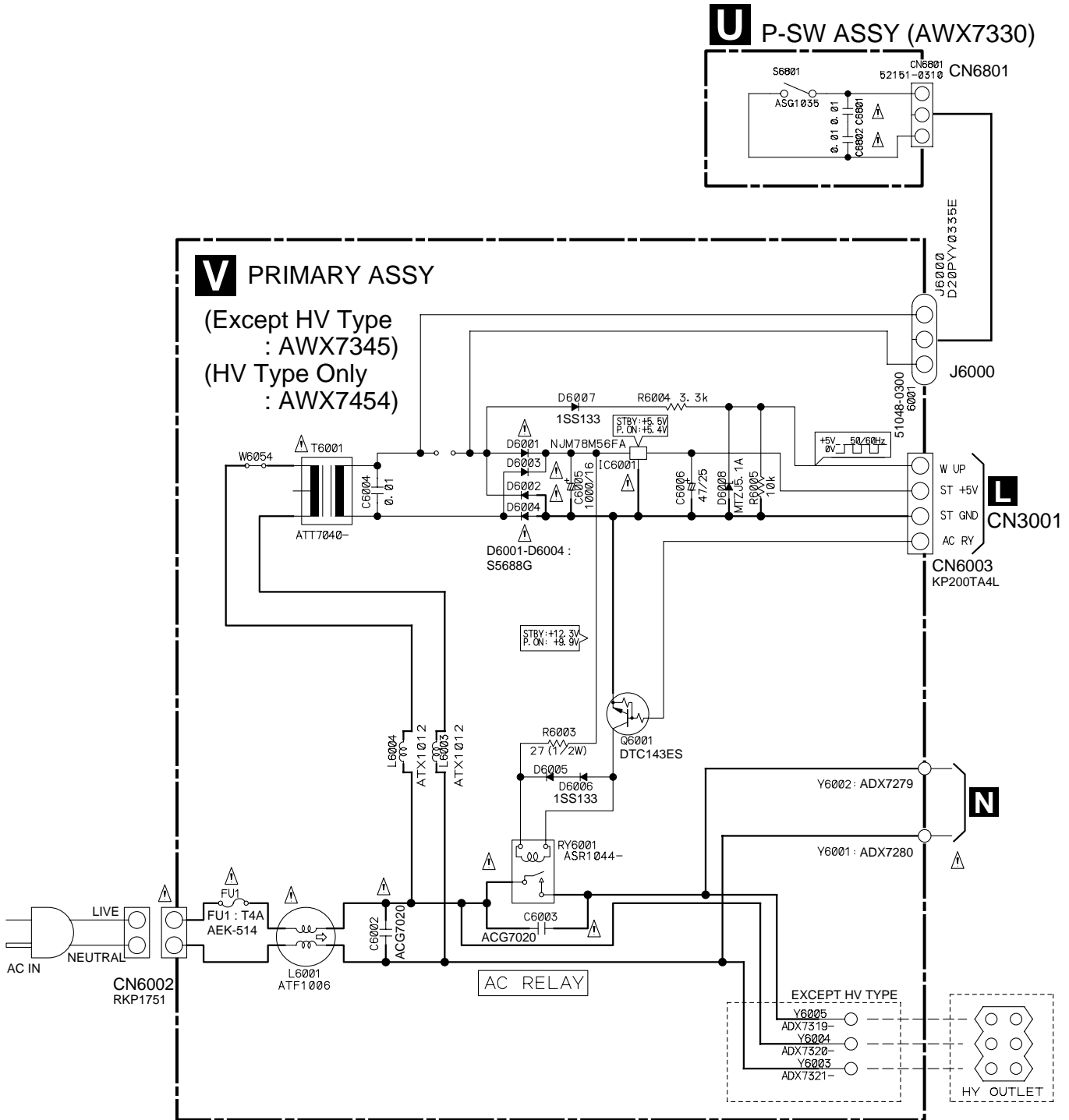
3.14 PRIMARY and P-SW ASSY

A

B

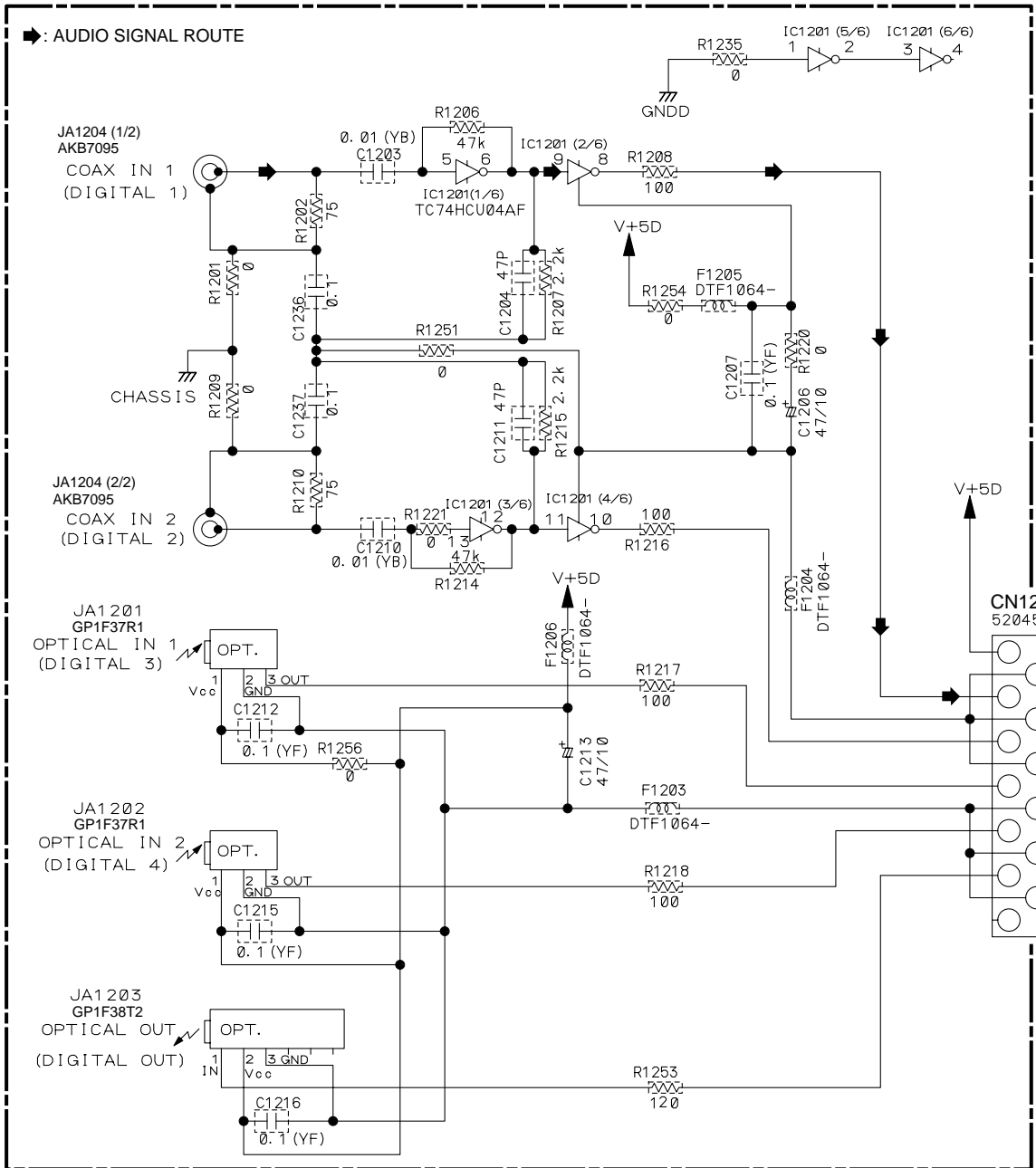
C

D

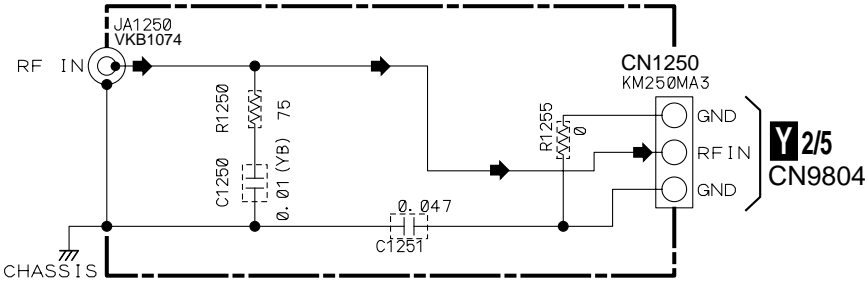


3.15 DIGITAL-I/O and RF TERMINAL ASSYS

W DIGITAL-I/O ASSY (AWX7396)

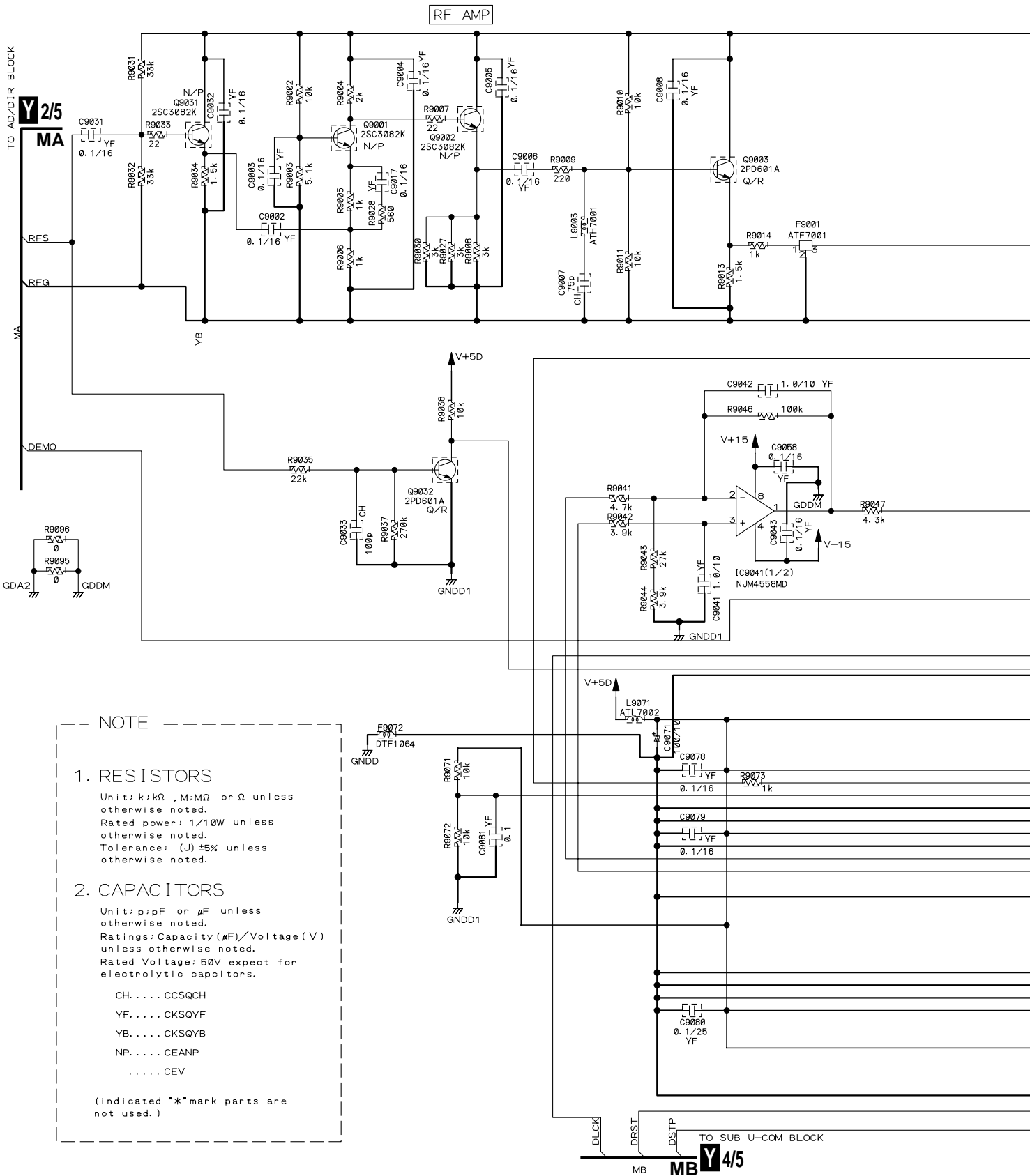


X RF TERMINAL ASSY (AWX7376)



3.16 DSP ASSY (1/5)

Y 1/5 DSP ASSY (AWX7272)



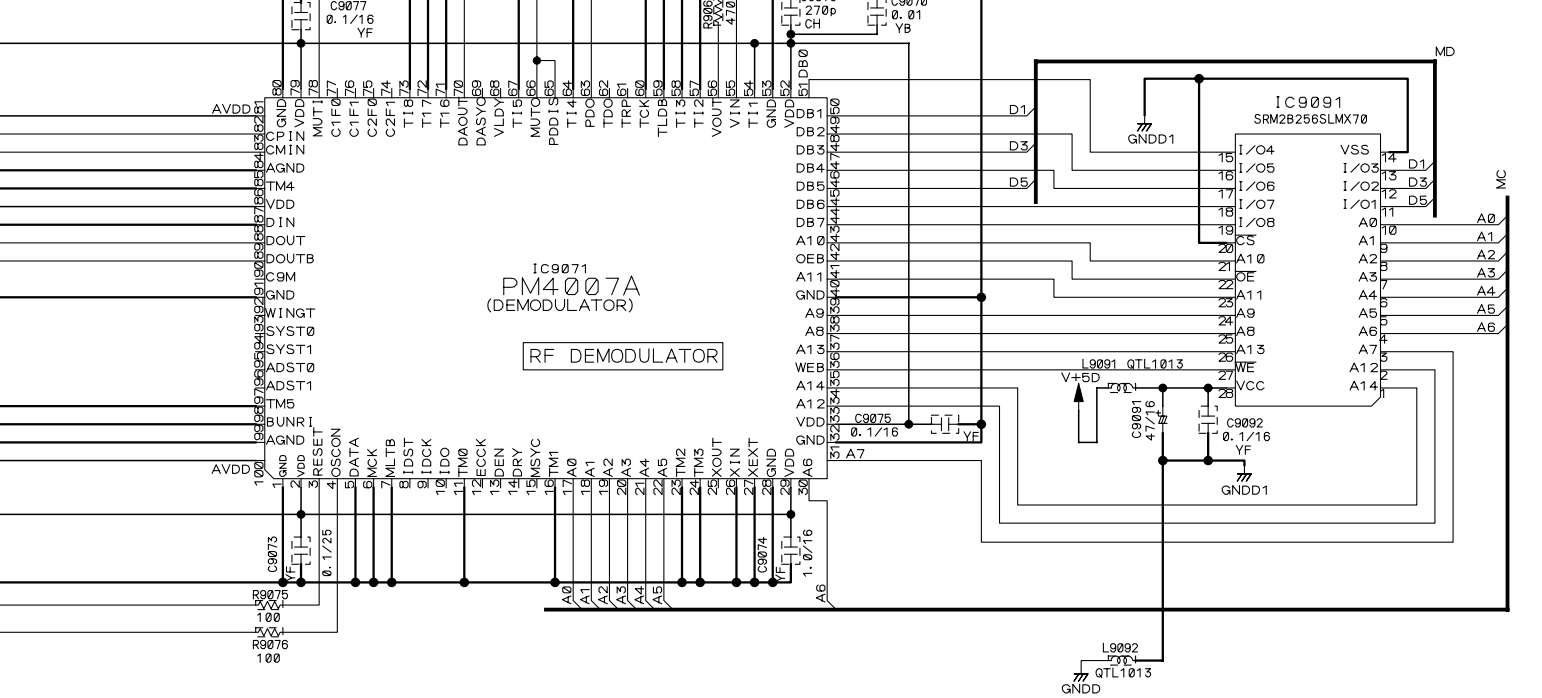
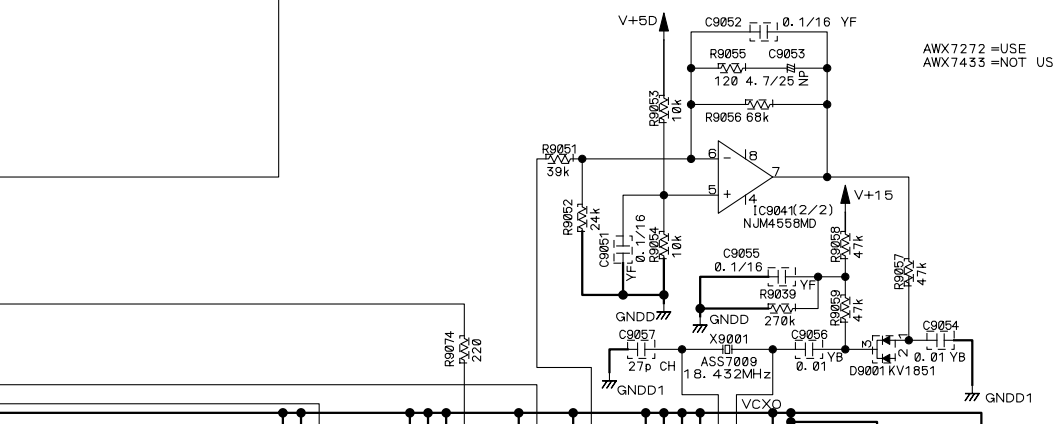
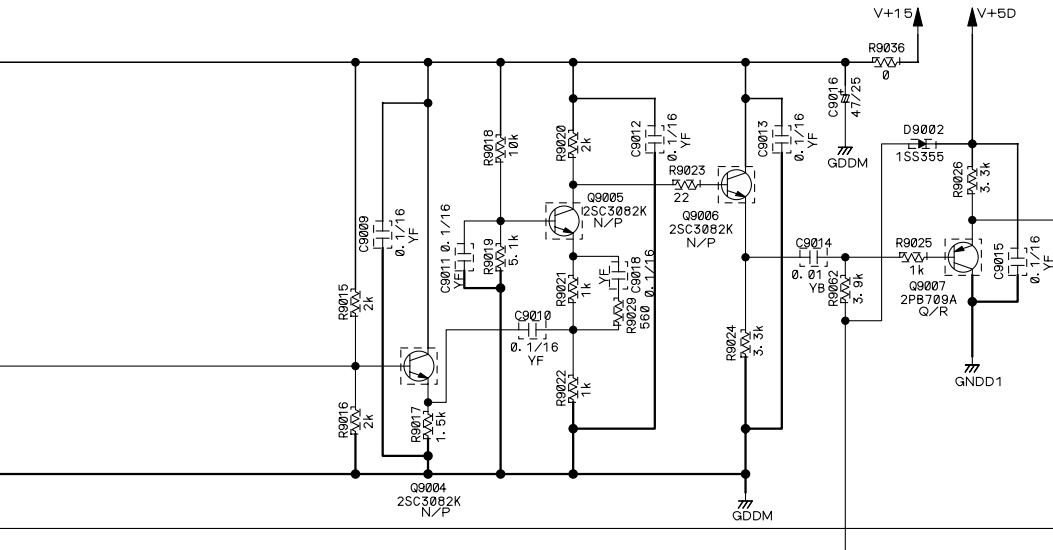
NOTE

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
 CEV

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

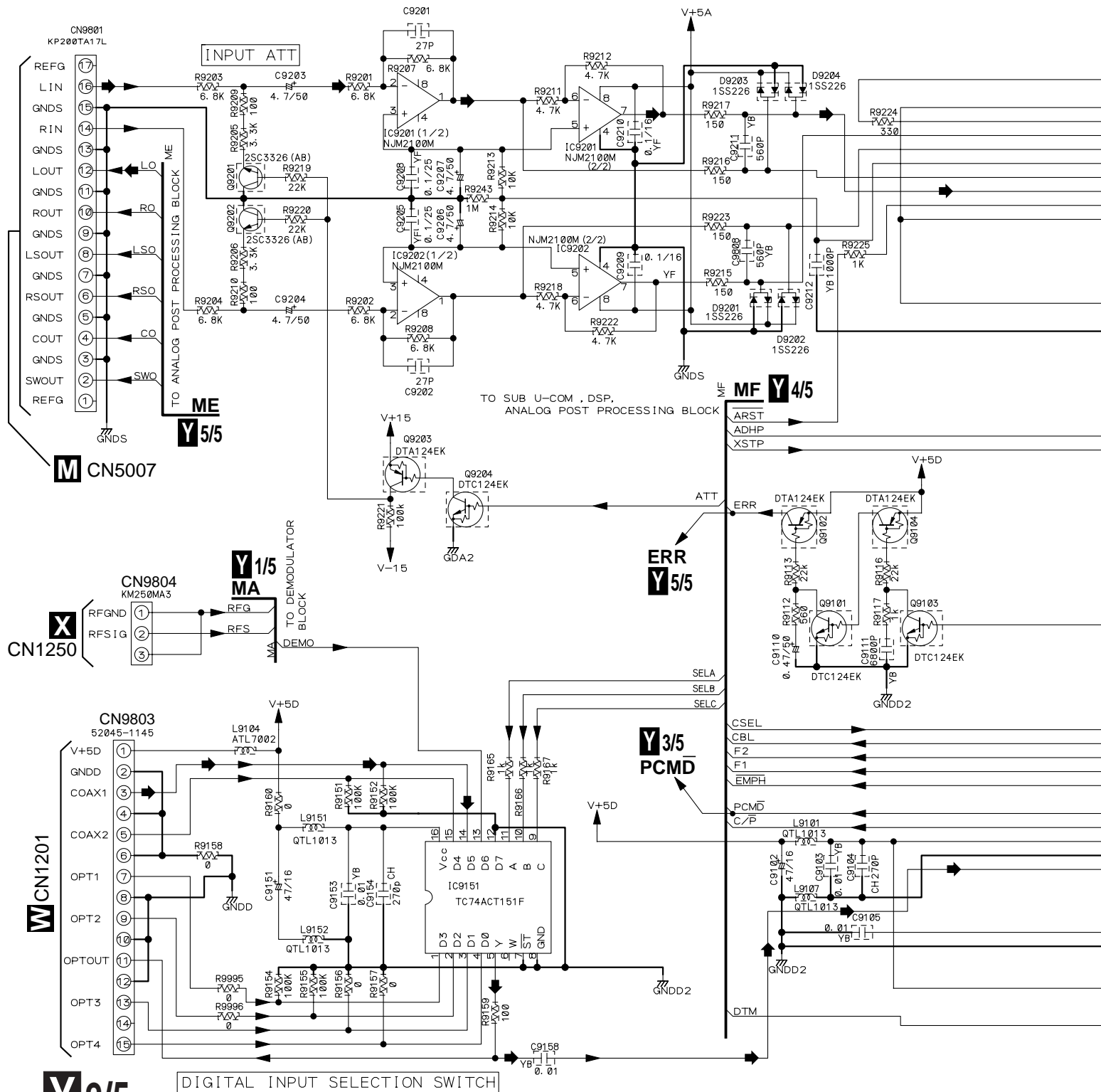


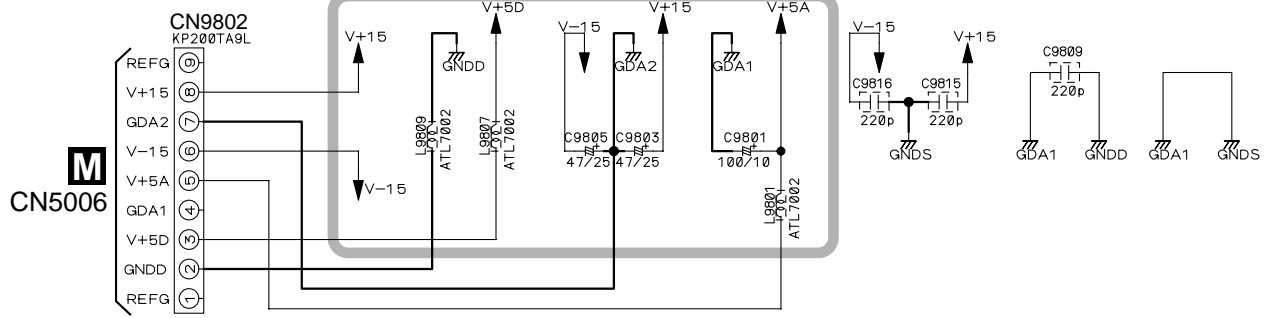
3.17 DSP ASSY (2/5)

 : The power supply is shown with the marked box.

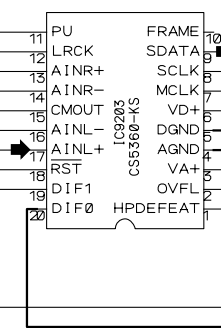
Y 2/5 DSP ASSY (AWX7272)

 : AUDIO SIGNAL ROUTE

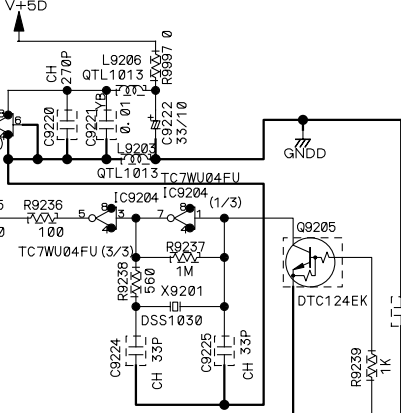




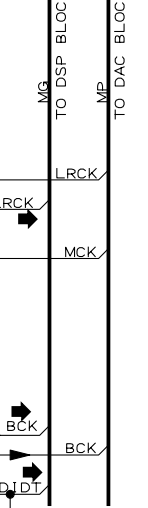
A/D CONVERTER



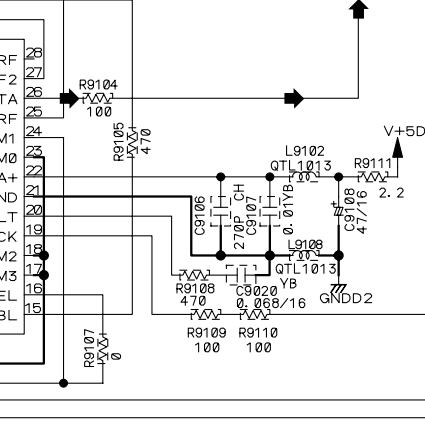
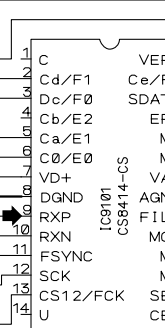
MASTER CLOCK



Y 3/5 Y 4/5
MG MP

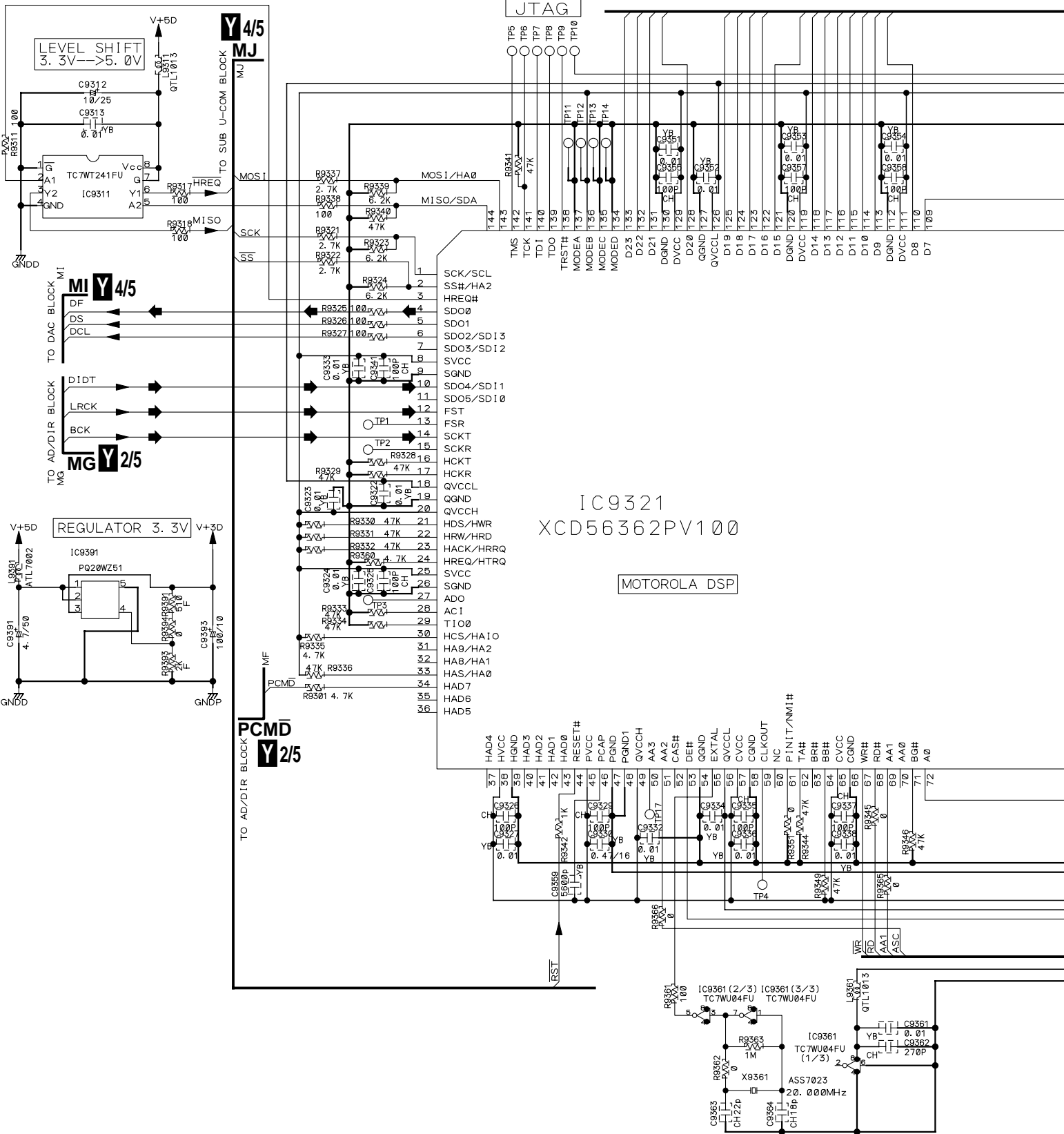


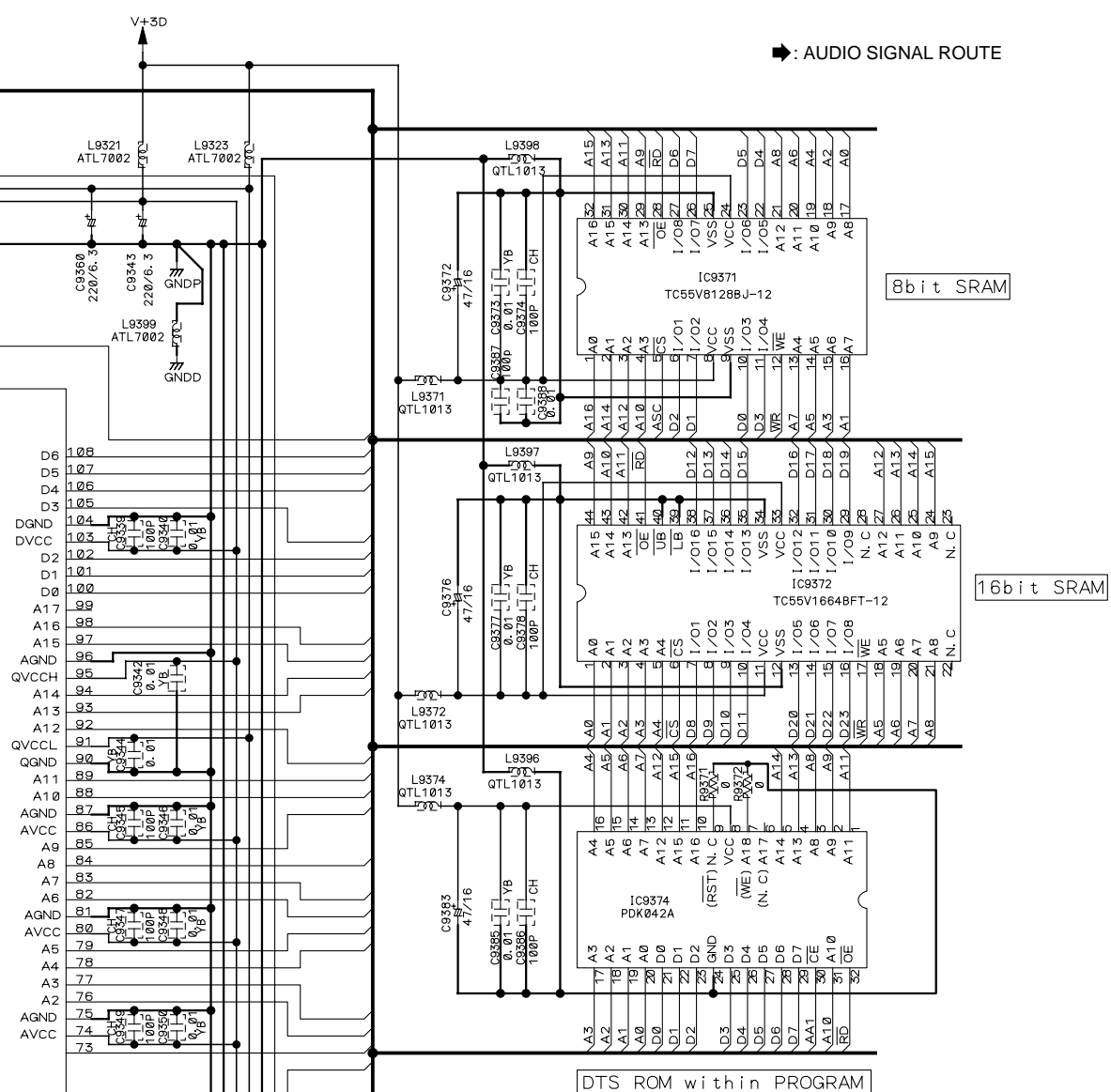
DIR



3.18 DSP ASSY (3/5)

Y 3/5 DSP ASSY (AWX7272)



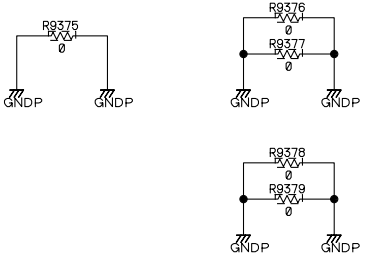


➔ : AUDIO SIGNAL ROUTE

8bit SRAM

16bit SRAM

DTS ROM within PROGRAM



3.19 DSP ASSY (4/5)

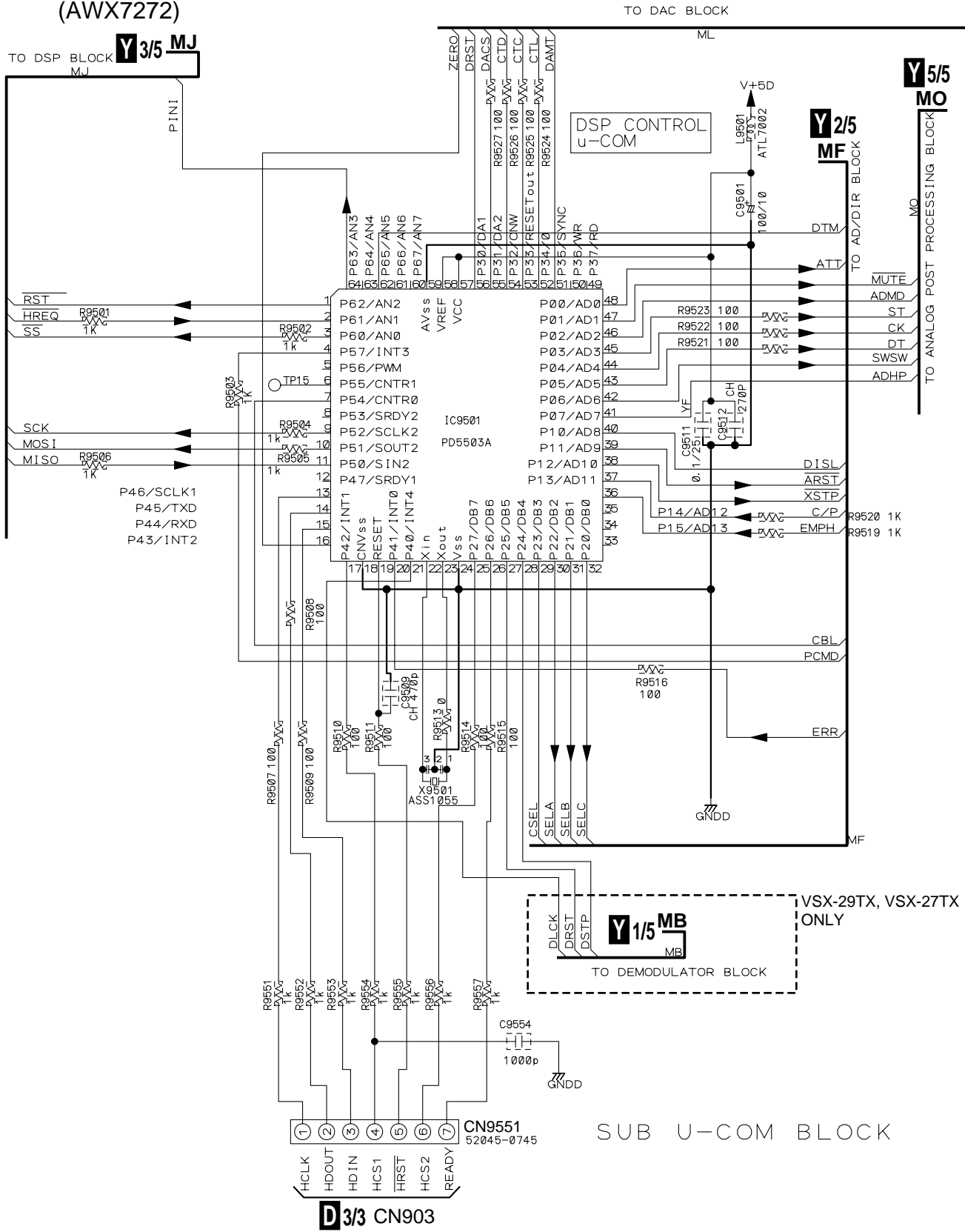
Y 4/5 DSP ASSY
 (AWX7272)

A

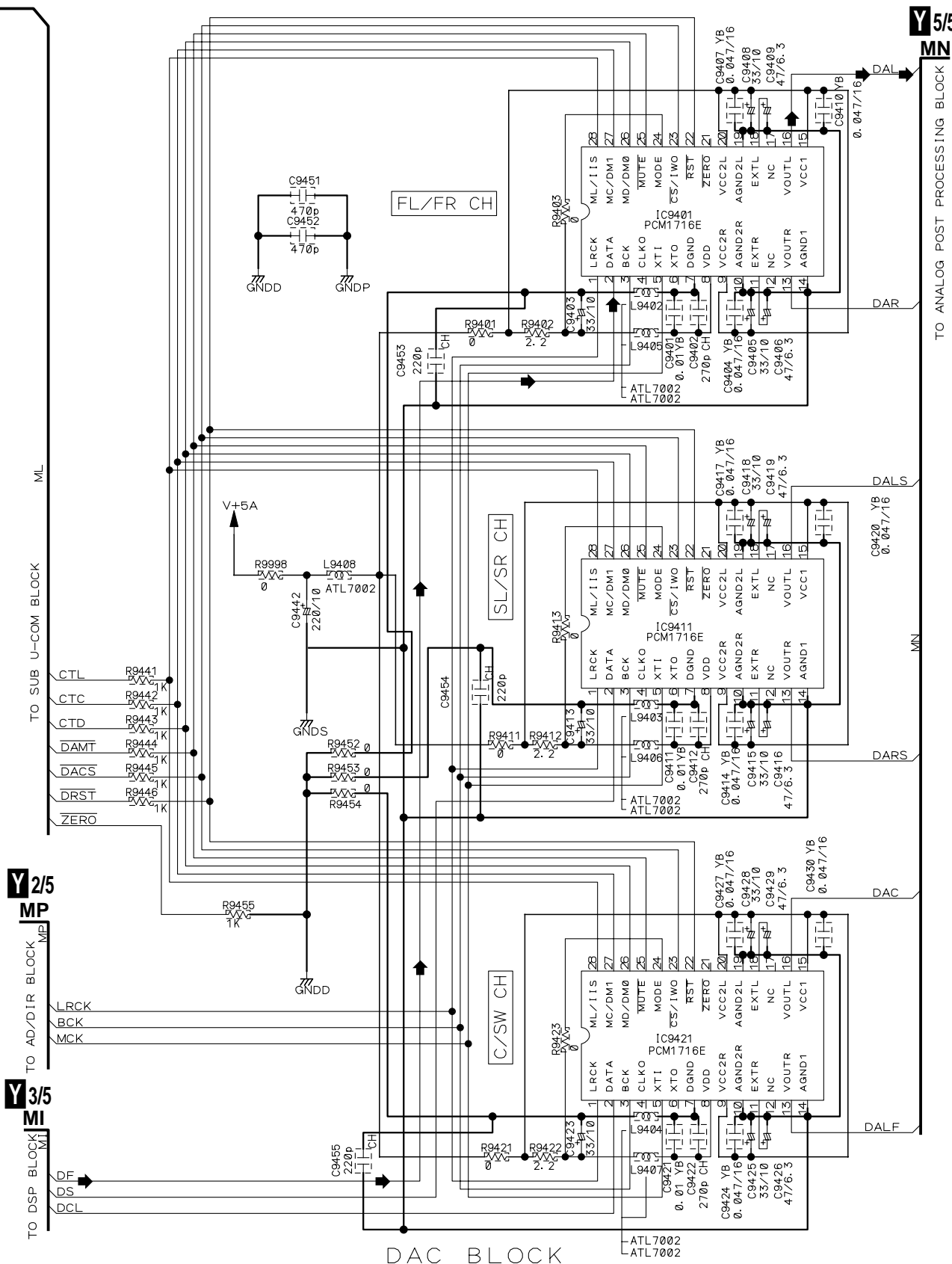
B

C

D



➔ : AUDIO SIGNAL ROUTE



DAC BLOCK

TO DSP BLOCK
MI
DCL
DS
DF

TO AD/DIR BLOCK
MP
MCK
BCK
LCK

TO SUB U-COM BLOCK
ML
ZERO
R9446
DRST
R9445
DACS
R9444
DAMT
R9443
CTD
R9442
CTC
R9441
CTL

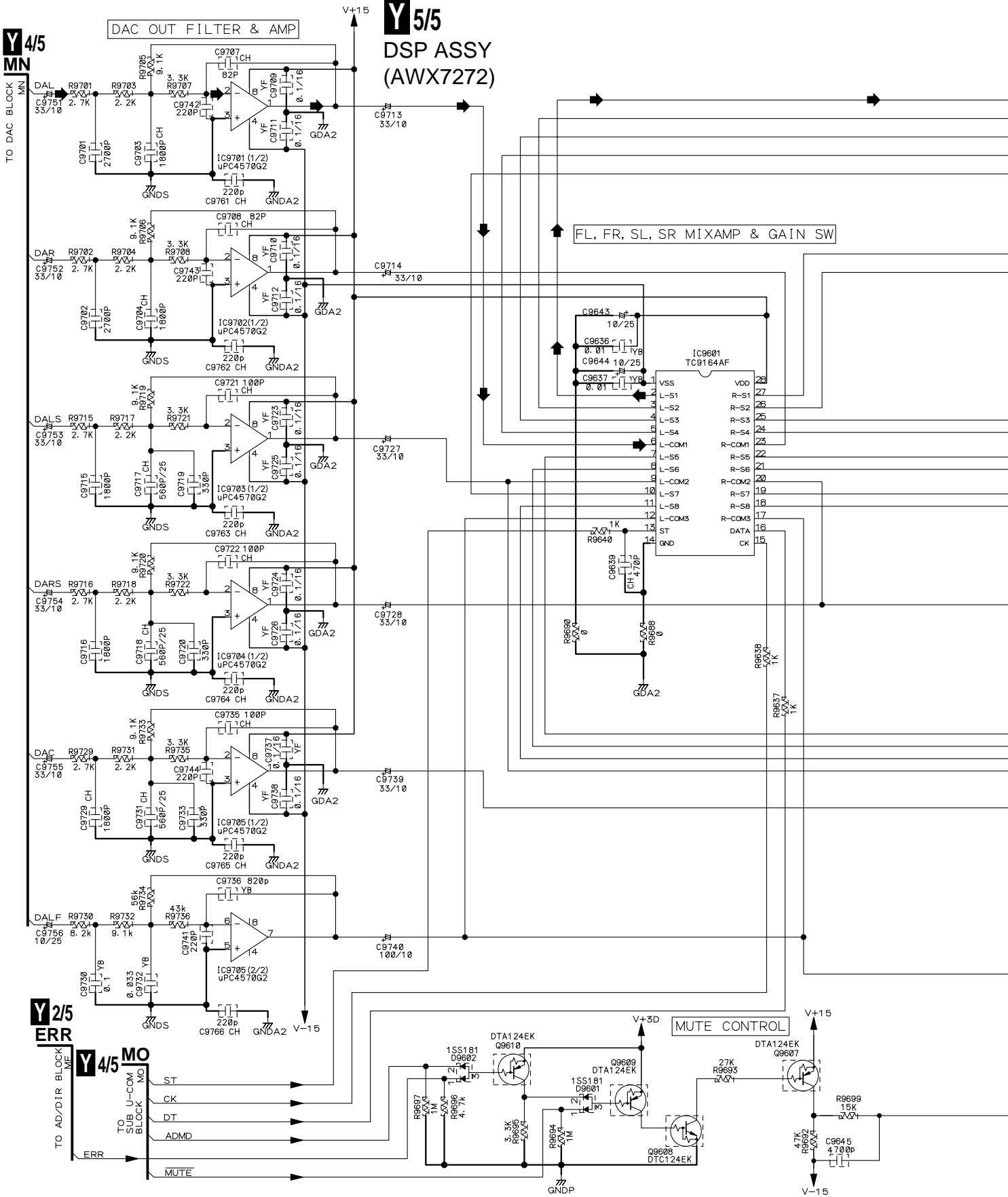
3.20 DSP ASSY (5/5)

A

B

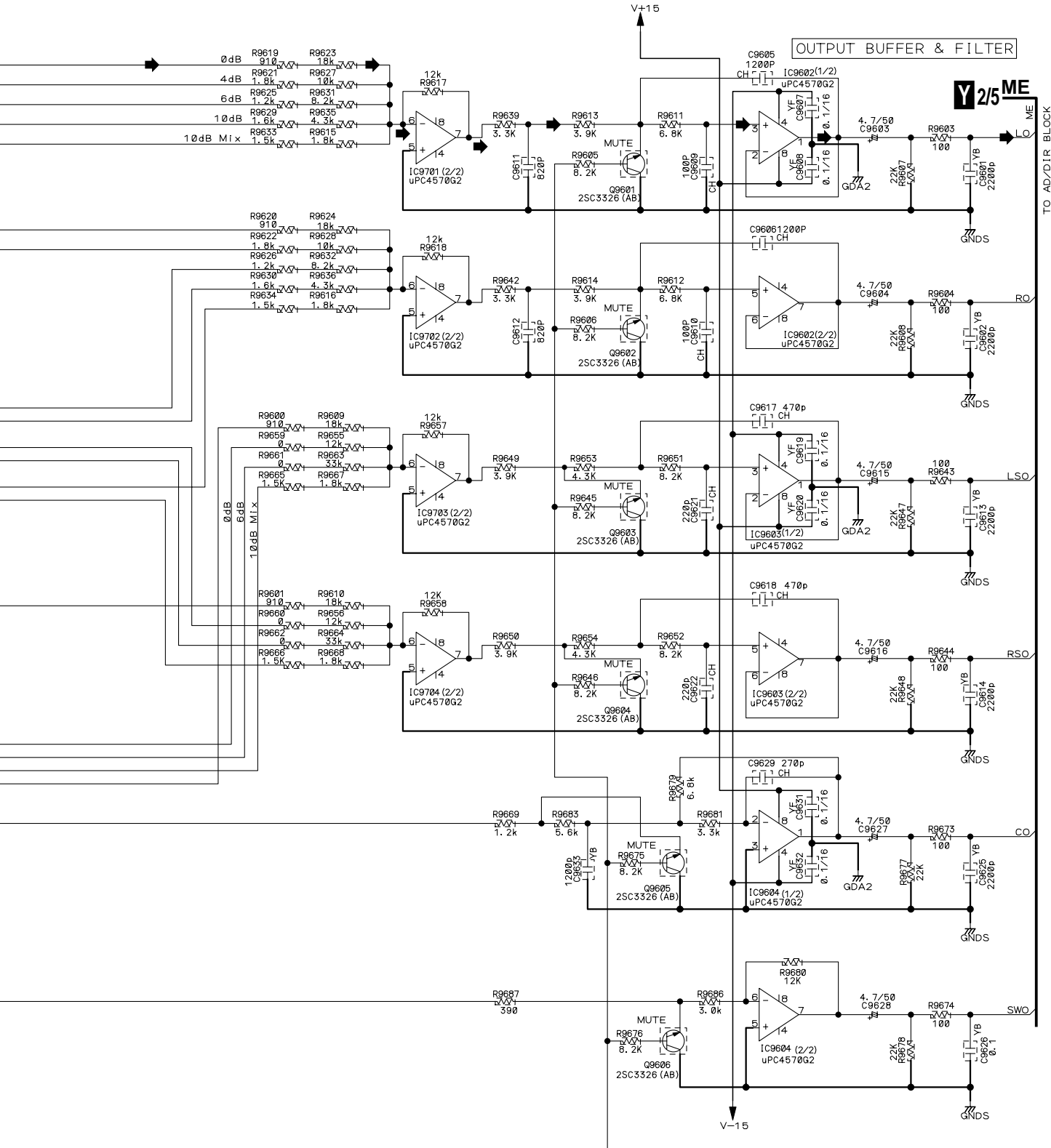
C

D



VSX-908RDS, VSX-908RDS-G


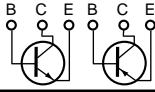

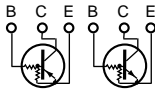

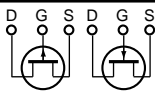

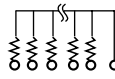


➔ : AUDIO SIGNAL ROUTE



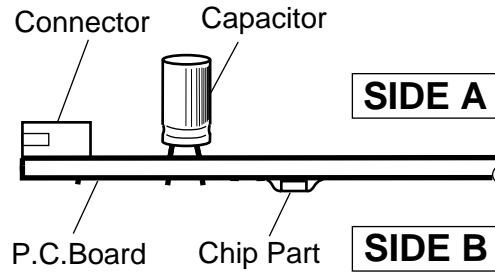
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

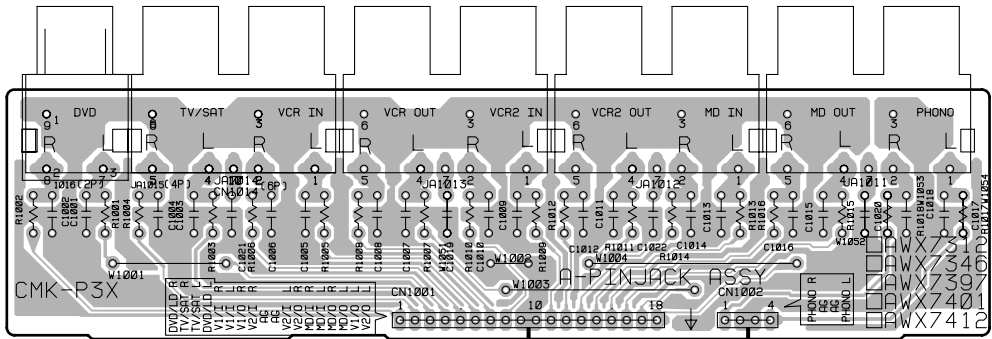
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

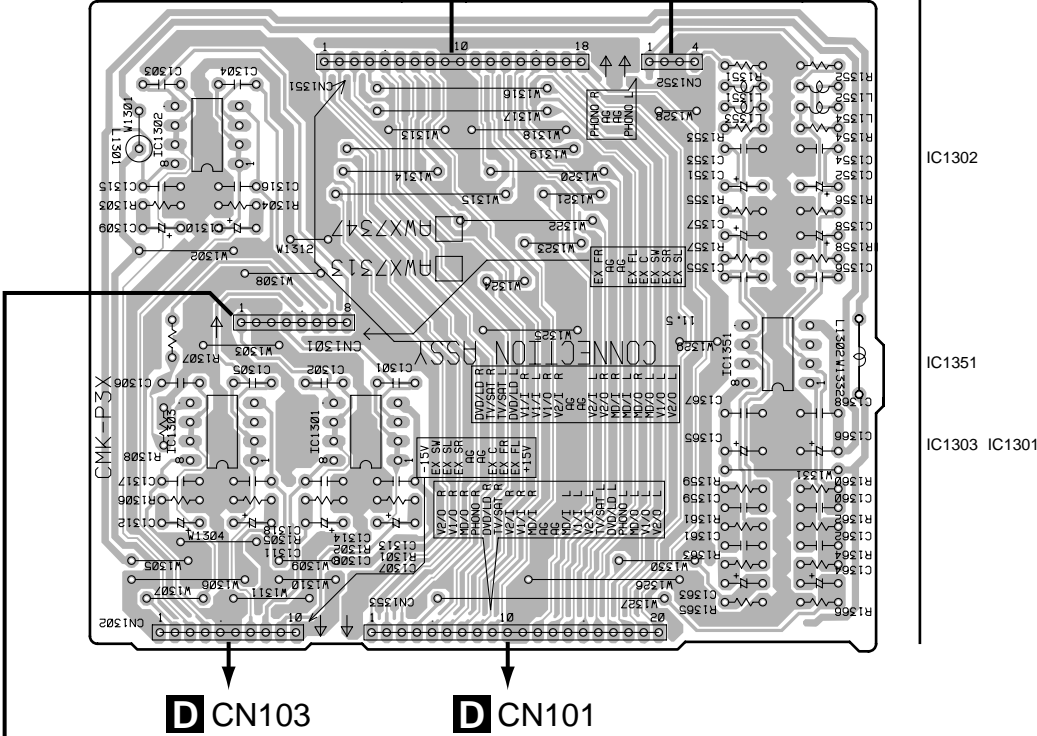


4.1 EXTERNAL IN, A-PINJACK and CONNECTION ASSYS

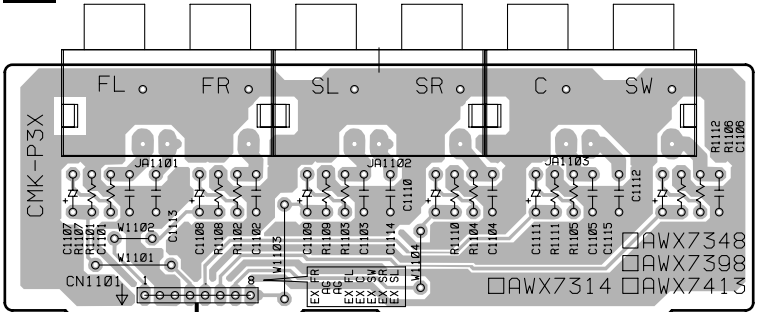
B A-PINJACK ASSY



C CONNECTION ASSY



A EXTERNAL IN ASSY

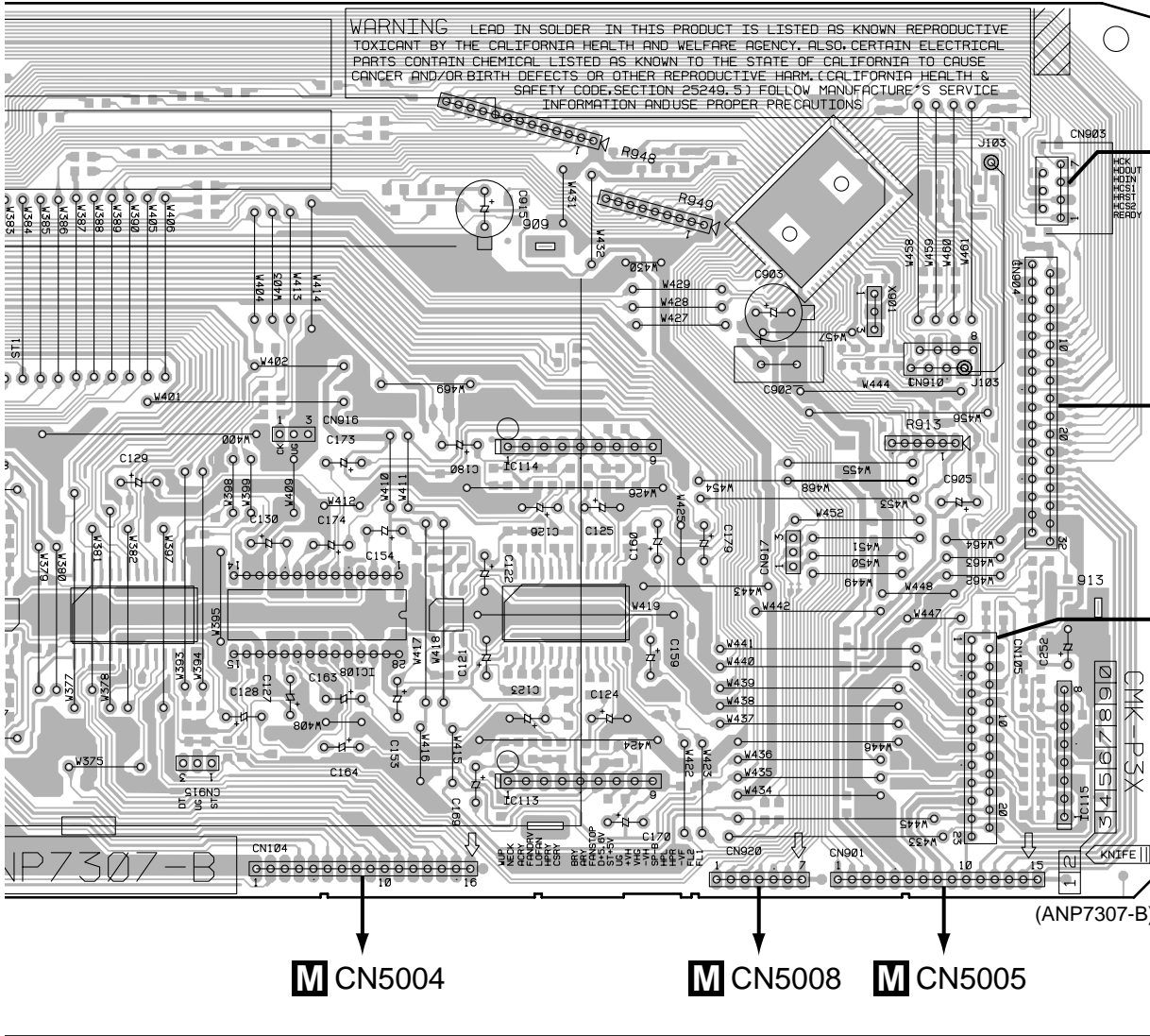


(ANP7308-D)

SIDE A

A B C

D MAIN CONTROL ASSY

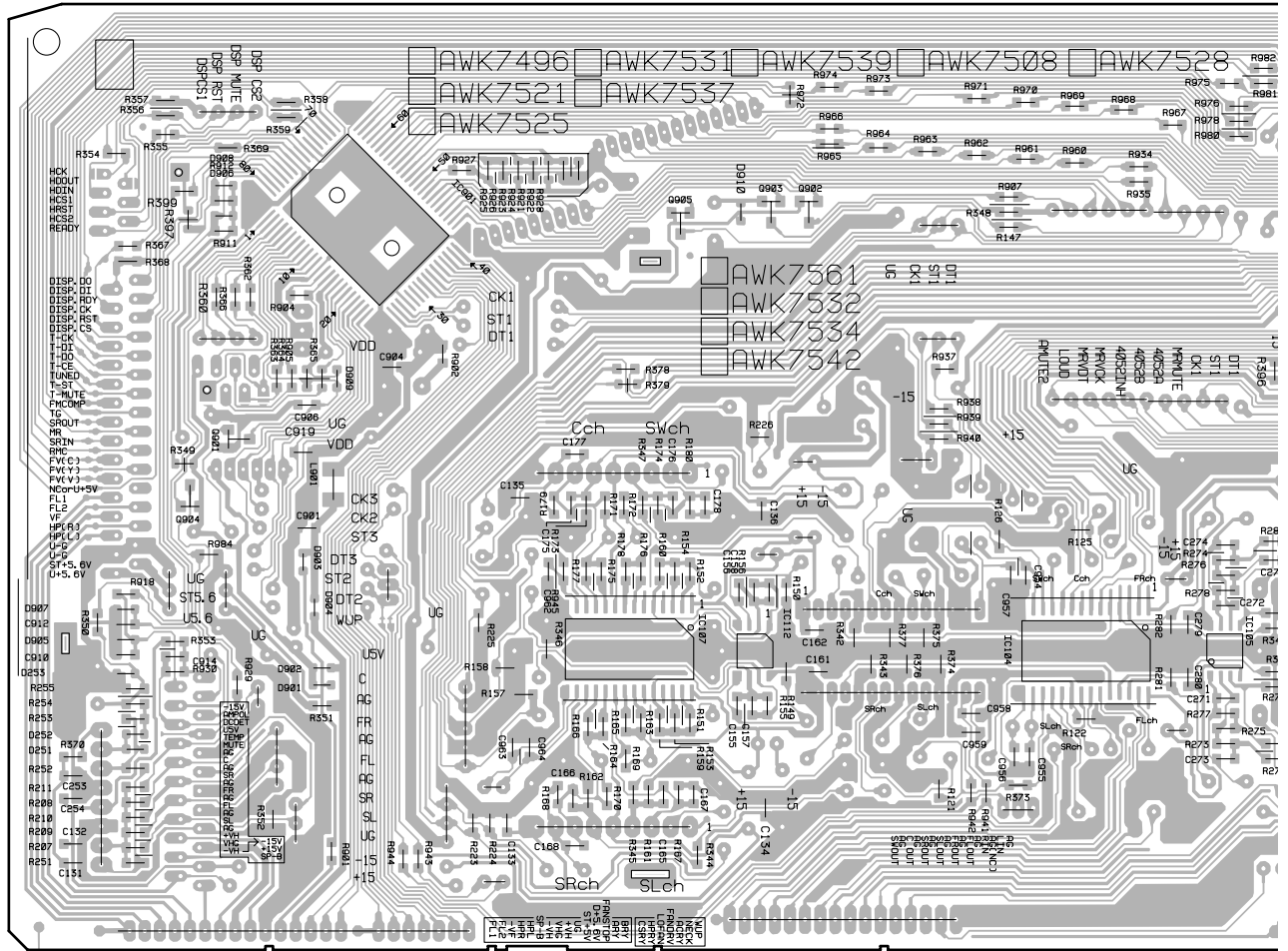


IC108

IC114
IC113

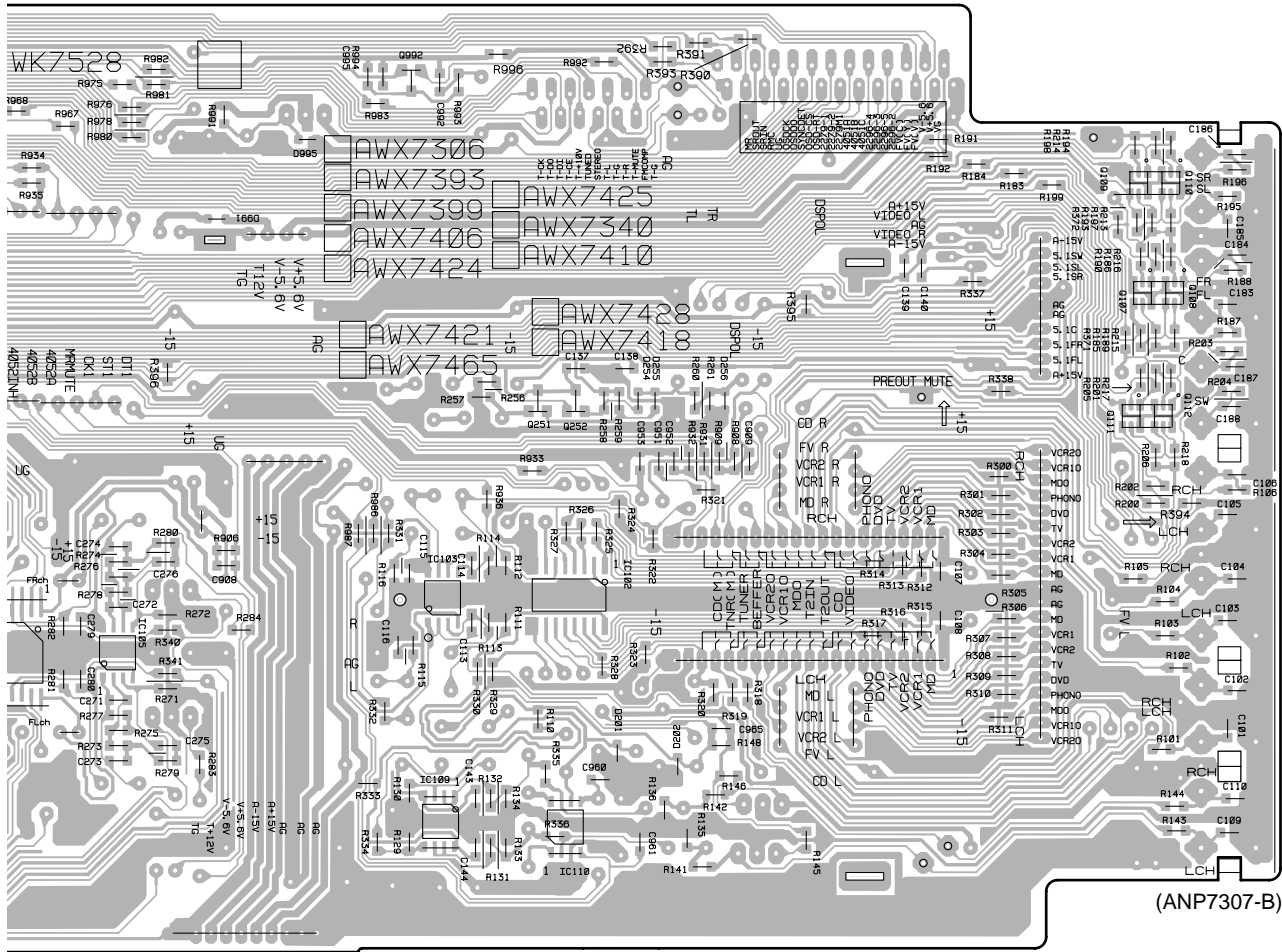
IC115

D MAIN CONTROL ASSY



Q904 Q901 IC901 Q905 Q903 Q902 IC104 IC105
 IC107 IC112

SIDE B



(ANP7307-B)

IC105

Q902

Q251 Q252

Q109 Q110

IC103

IC102

Q107 Q108

IC109

IC110

Q111 Q112

4.3 V-AMP ASSY

E V-AMP ASSY

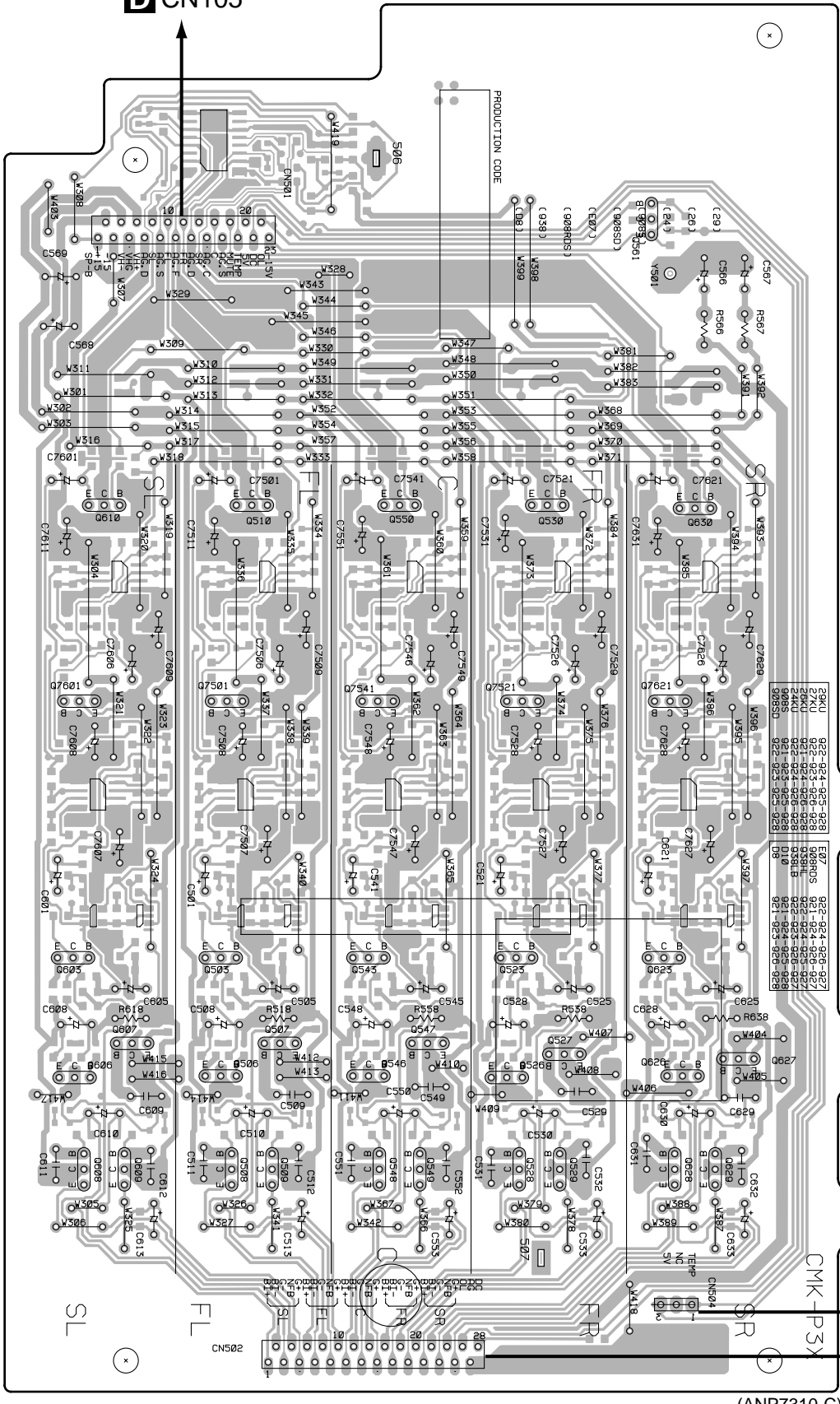
A

D CN105

B

C

D



Q561

Q610 Q510 Q550 Q530 Q630

Q7601 Q7501 Q7541 Q7521 Q7621

Q603 Q503 Q543 Q523 Q623

Q607 Q507 Q547 Q527 Q627
Q606 Q506 Q546 Q526 Q626

Q608 Q508 Q548 Q528 Q628
Q609 Q509 Q549 Q529 Q629

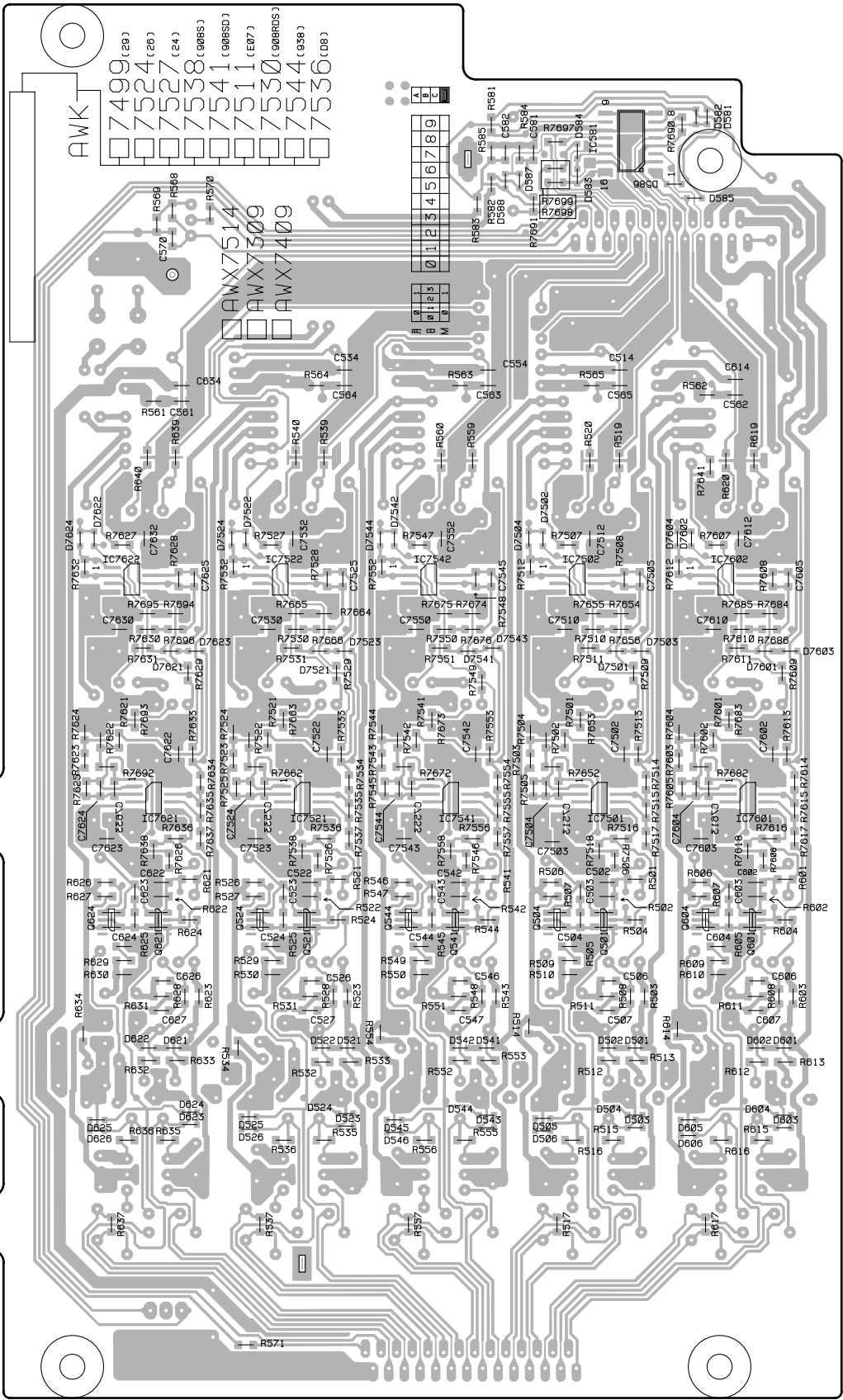
28KU	922-924-925-928	E87	922-924-925-927
24KU	922-923-925-928	908RDS	922-924-925-927
24KU	922-924-925-928	9381B	922-923-925-927
908S	921-923-925-928	D10	921-924-925-928
908SD	922-923-925-928	D8	921-923-925-928

To THERMISTOR

F CN2001

(ANP7310-C)

V-AMP ASSY



IC581

IC7622 IC7522 IC7542 IC7502 IC7602

IC7621 IC7521 IC7541 IC7501 IC7601

Q624 Q524 Q544 Q504 Q604
Q621 Q521 Q541 Q501 Q601

(ANP7310-C)

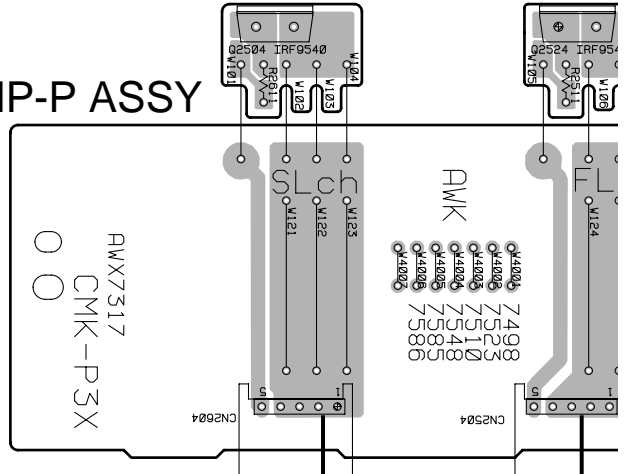
SIDE B



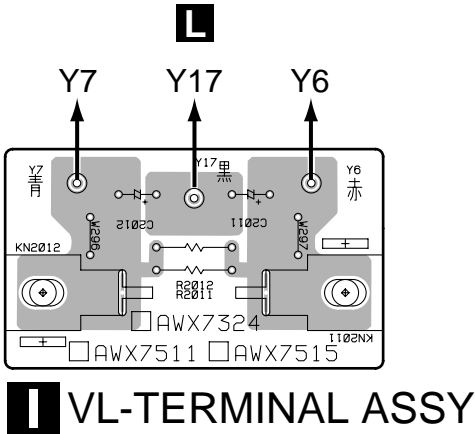
4.4 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS

A

G C-AMP-P ASSY

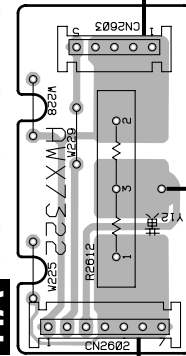


B

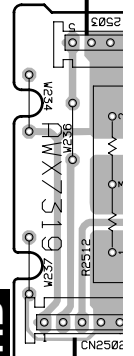


I VL-TERMINAL ASSY

HA OUTPUT-SL ASSY

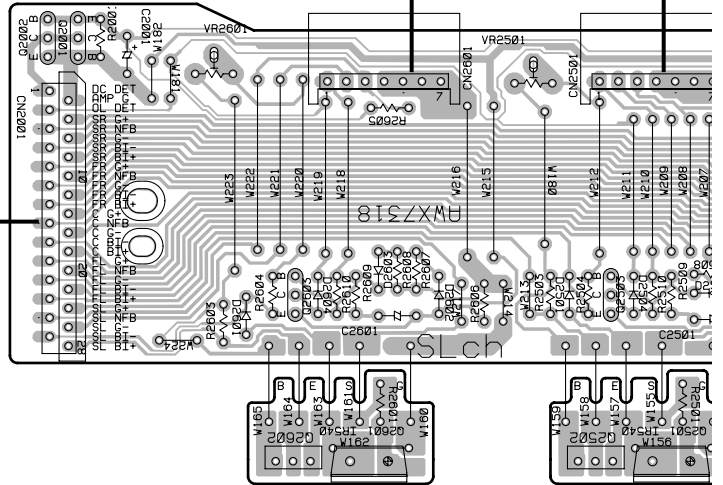


HB OUTPUT-FL ASSY



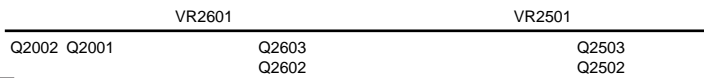
C

F C-AMP-N ASSY



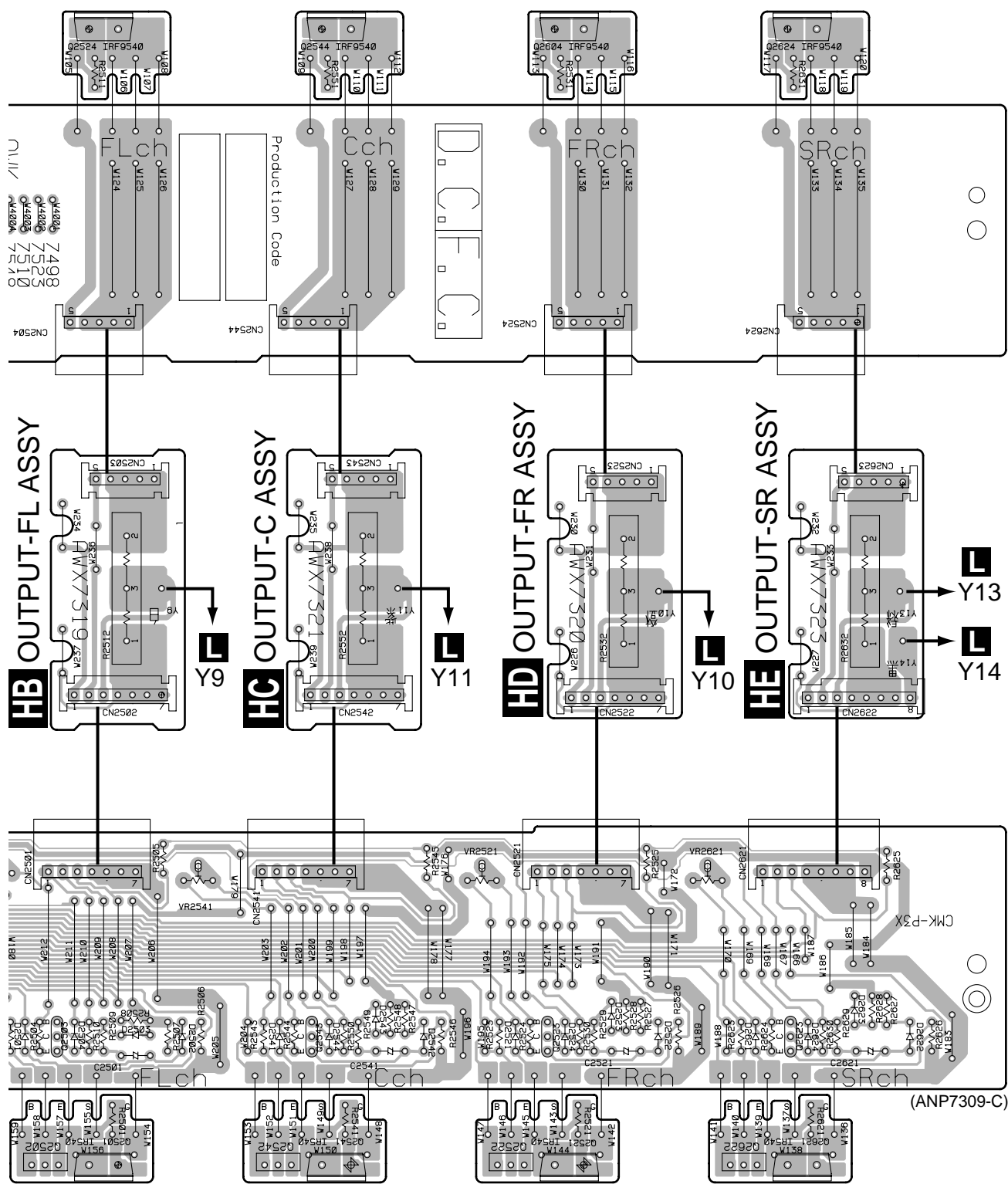
E CN502

D



SIDE A





2501	VR2541	VR2521	VR2621
Q2503	Q2543	Q2523	Q2623
Q2502	Q2542	Q2522	Q2622

F G HB HC HD HE

4.5 TRANS 2-1, DIODE, TRANS 1 and TRANS 2-2 ASSYS

● Line Voltage Selection

Line Voltage can be changed by the following modification:

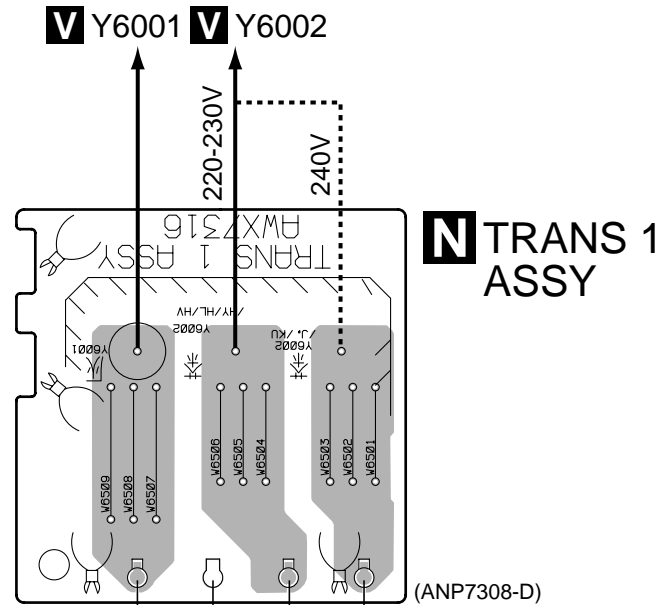
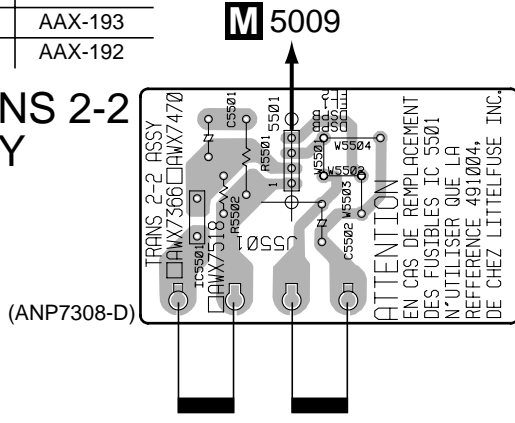
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY (Terminal No. Y6002) to AMP ASSY (Terminal No. Y6002) as follows.

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.

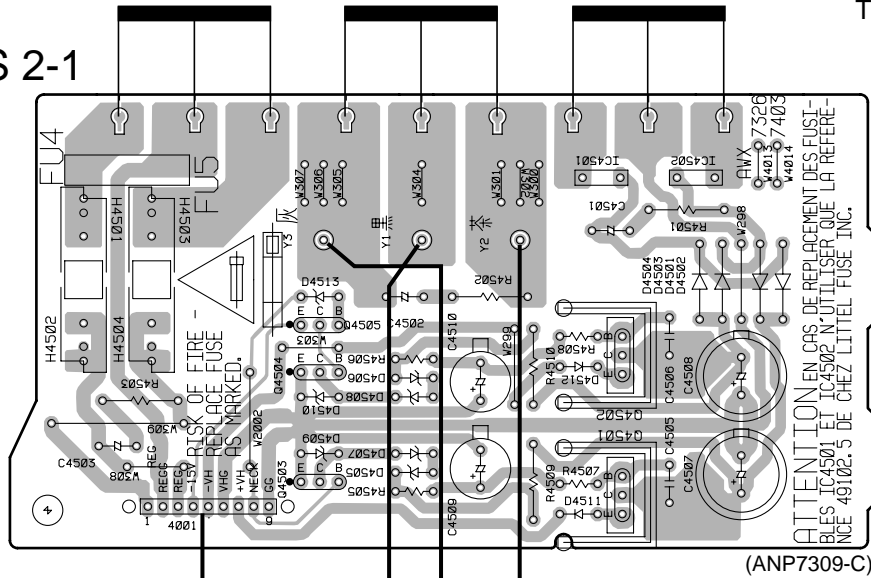
Description	Part No.
220V label	AAX-193
240V label	AAX-192

O TRANS 2-2 ASSY



T1 POWER TRANSFORMER

J TRANS 2-1 ASSY

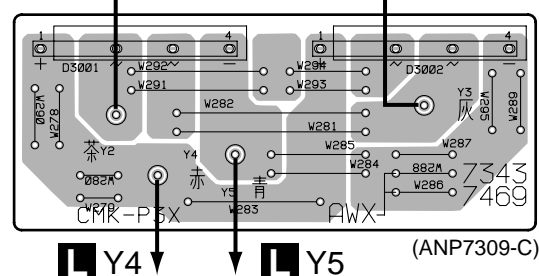


- IC4501 IC4502
- Q4505 Q4502
- Q4504 Q4501
- Q4503 Q4501

L 3001

L Y1

K DIODE ASSY

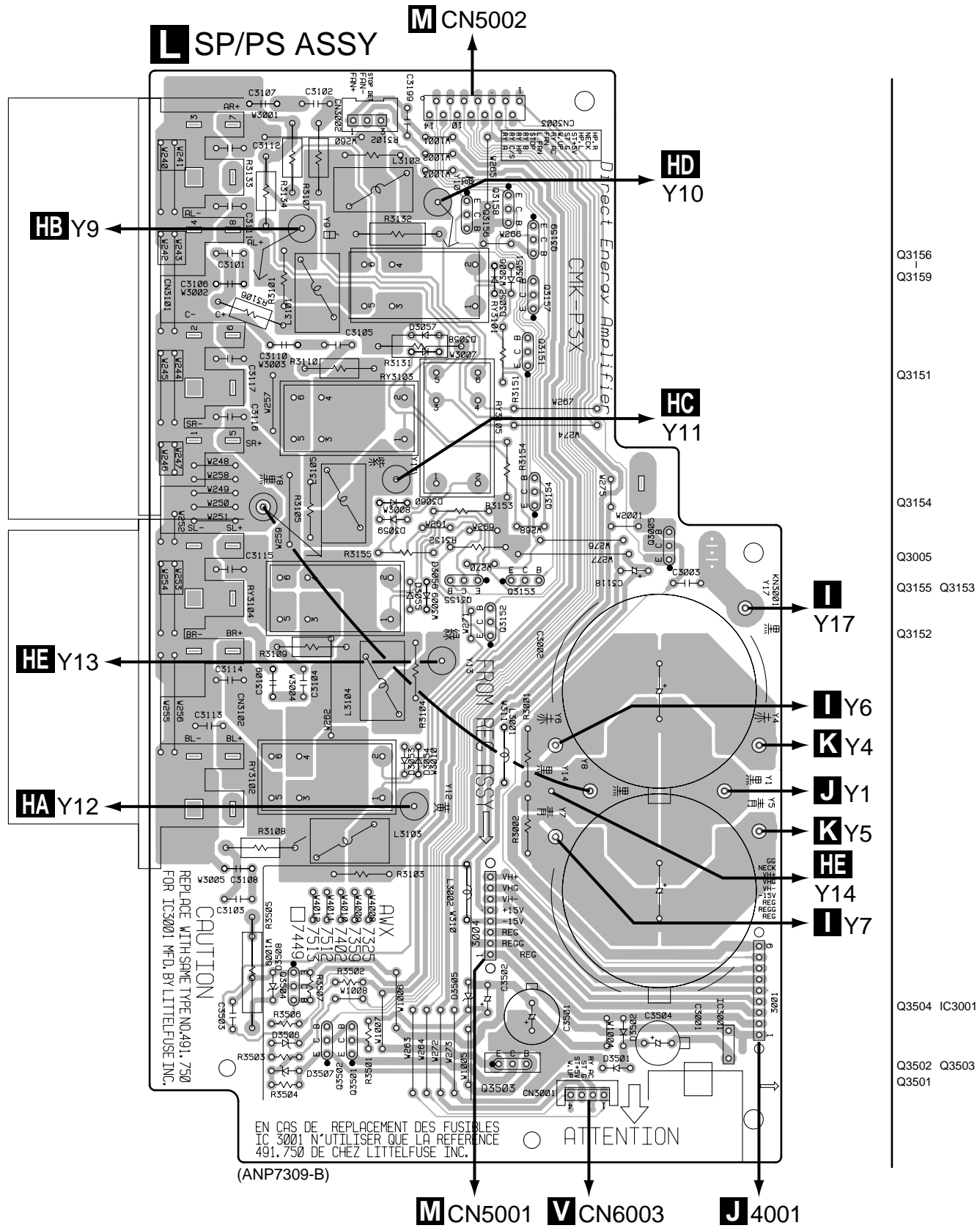


L Y4

L Y5

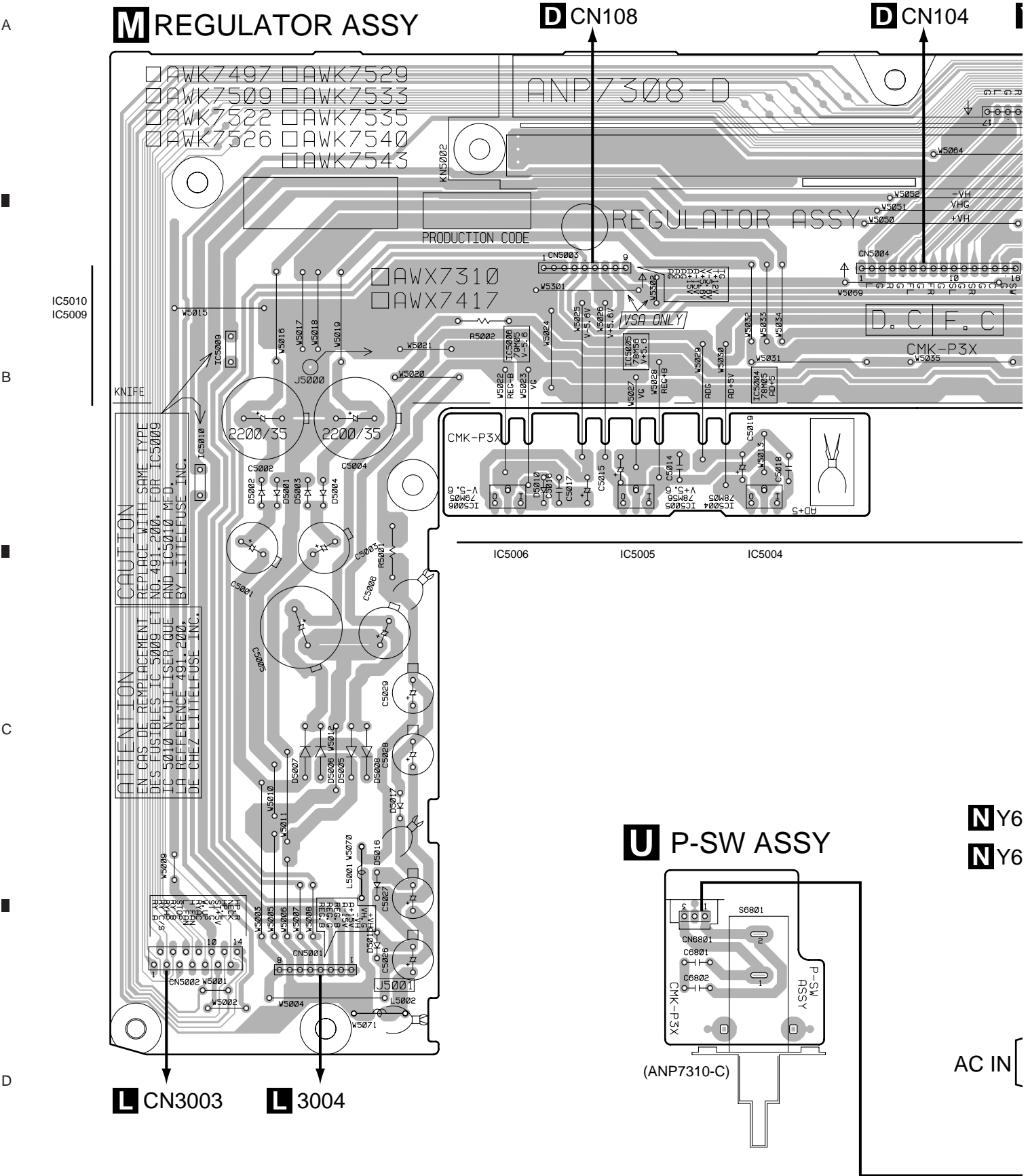
SIDE A

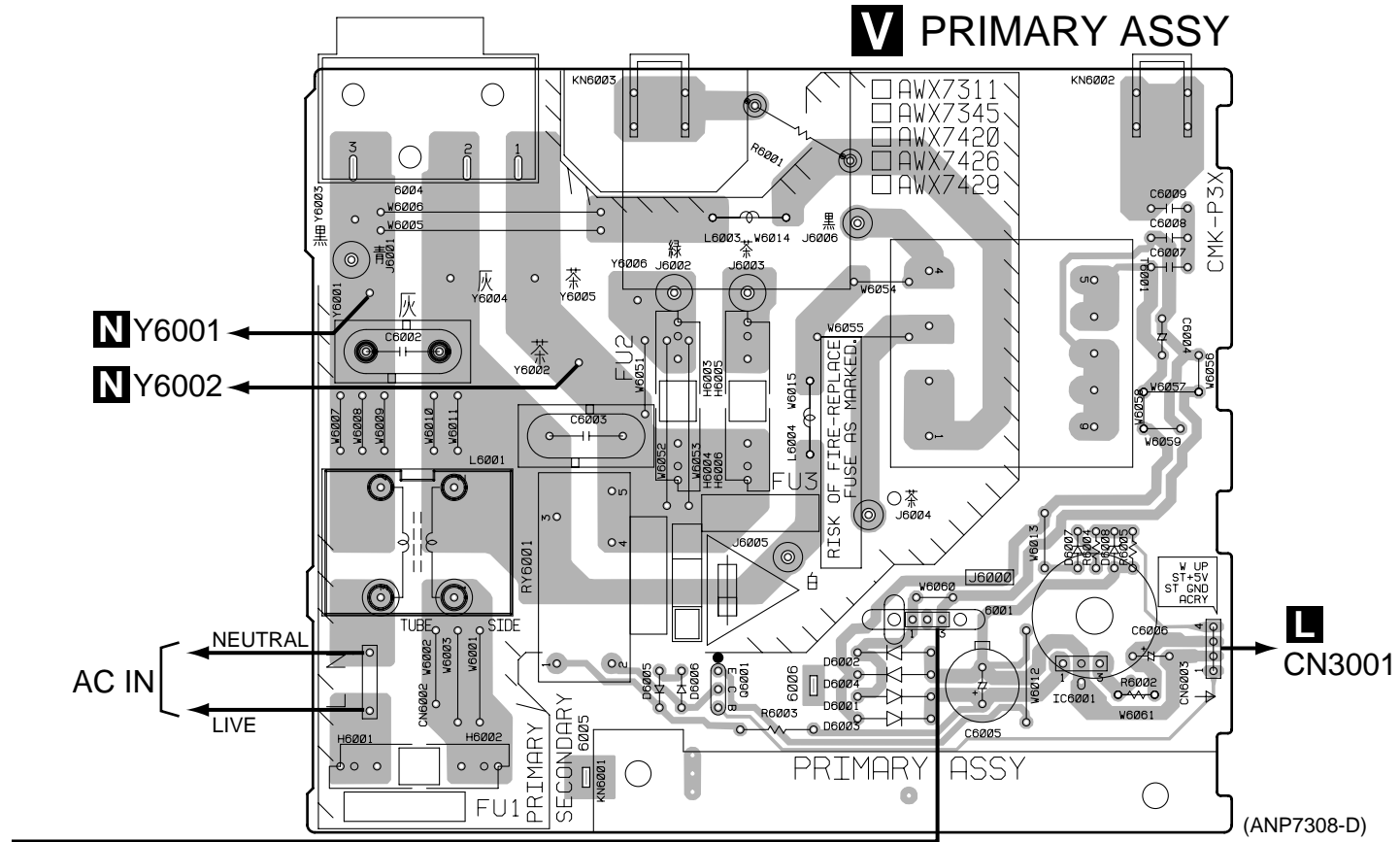
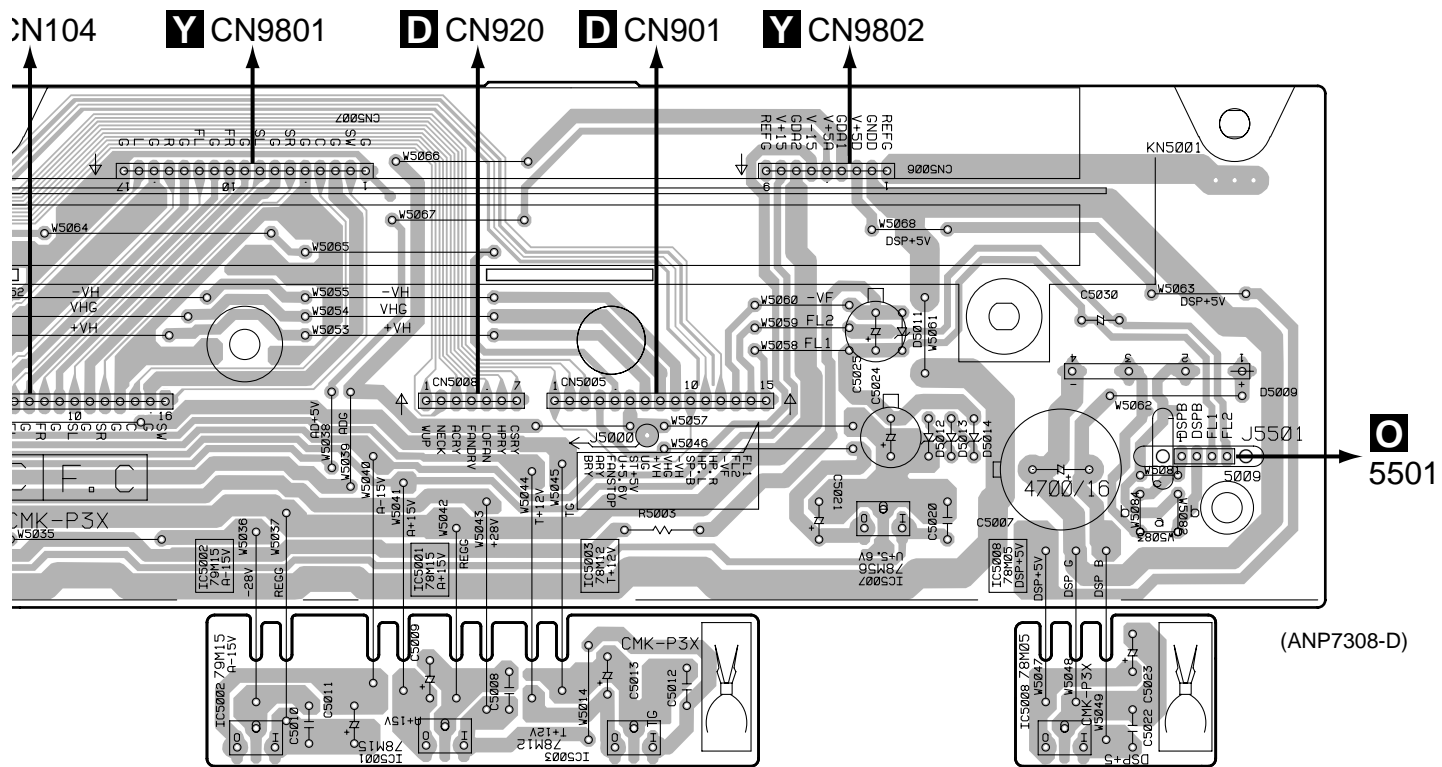
4.6 SP/PS ASSY



SIDE A

4.7 REGULATOR, PRIMARY and P-SW ASSYS

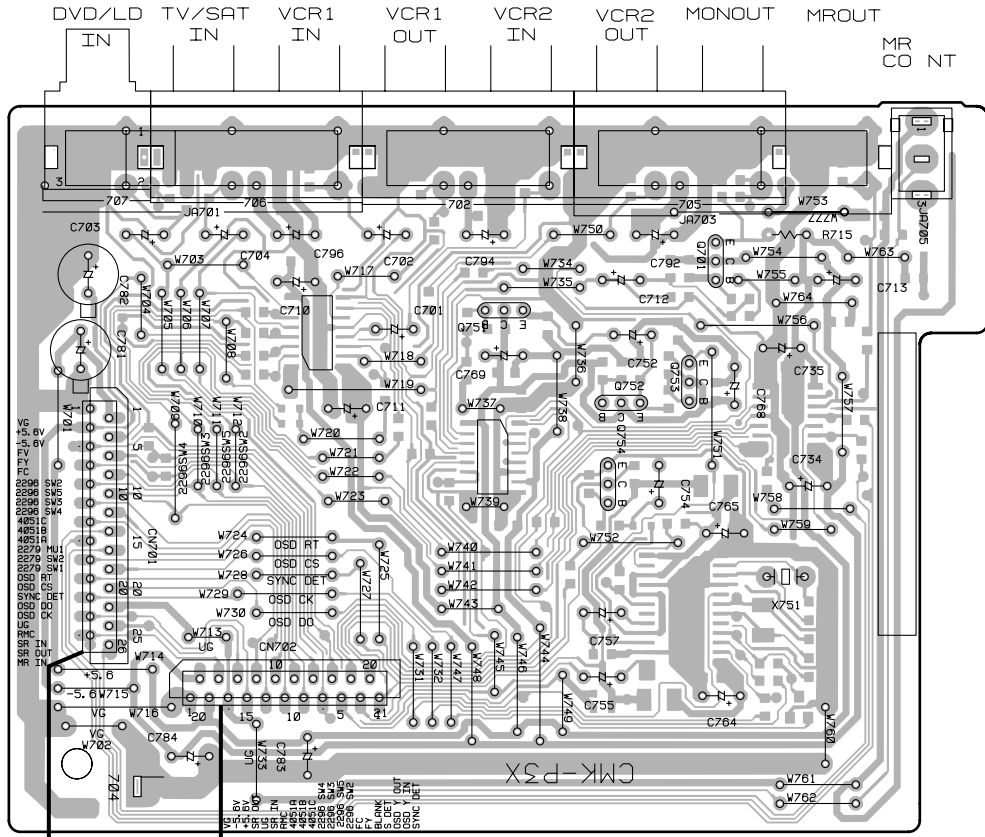




4.8 VIDEO ASSY

P VIDEO ASSY

A



Q701
 Q751
 Q753
 Q752
 Q754

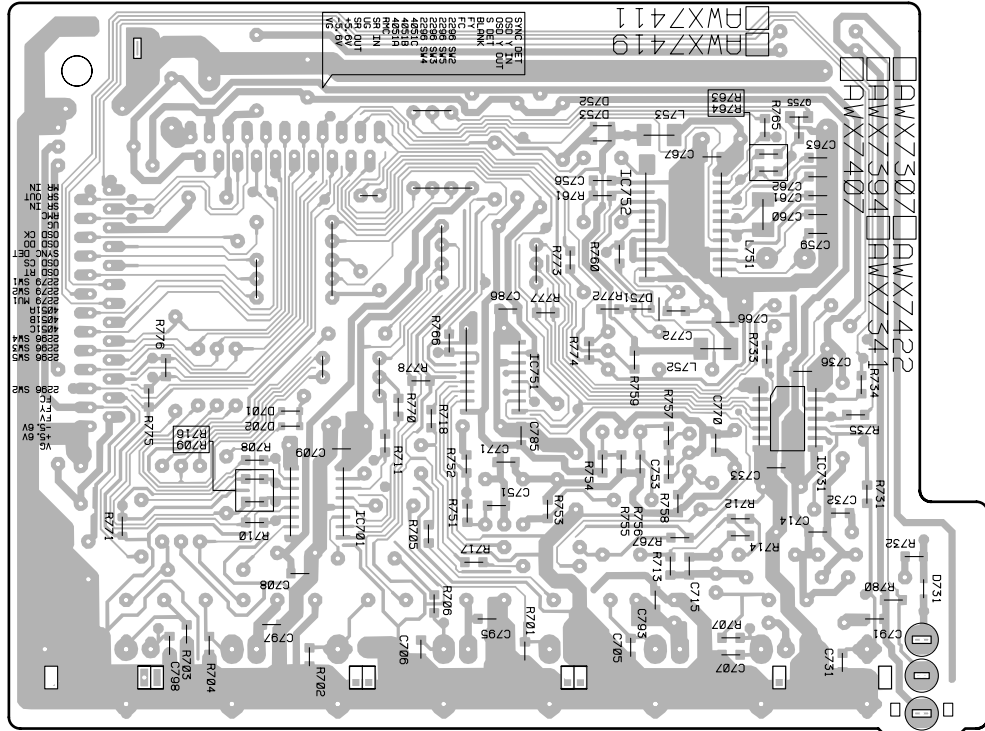
B

SIDE A

D CN905 **Q** CN804

P VIDEO ASSY

C



Q755
 IC752
 IC751
 IC731
 IC701

D

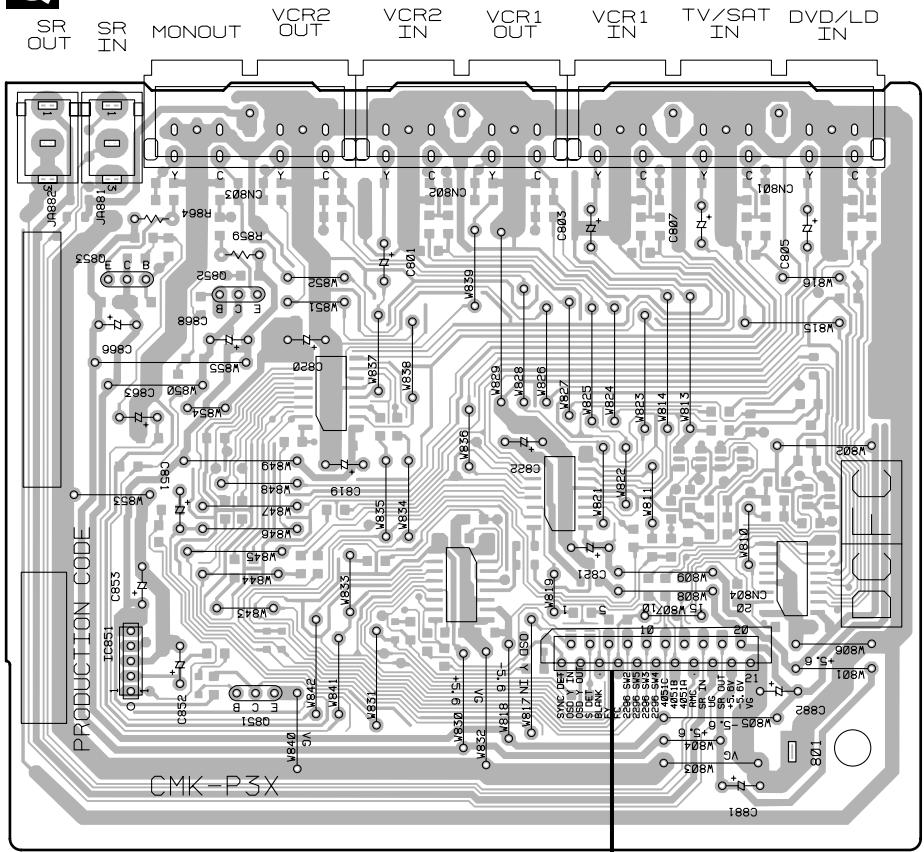
SIDE B

(ANP7307-B)



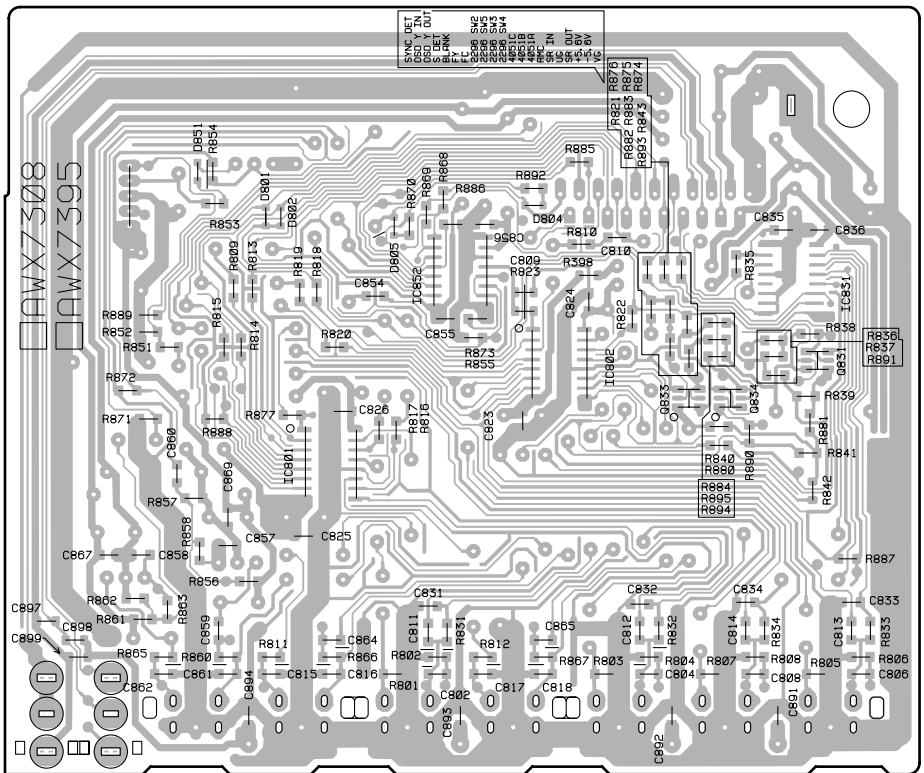
4.9 S-VIDEO ASSY

Q S-VIDEO ASSY



P CN702

Q S-VIDEO ASSY

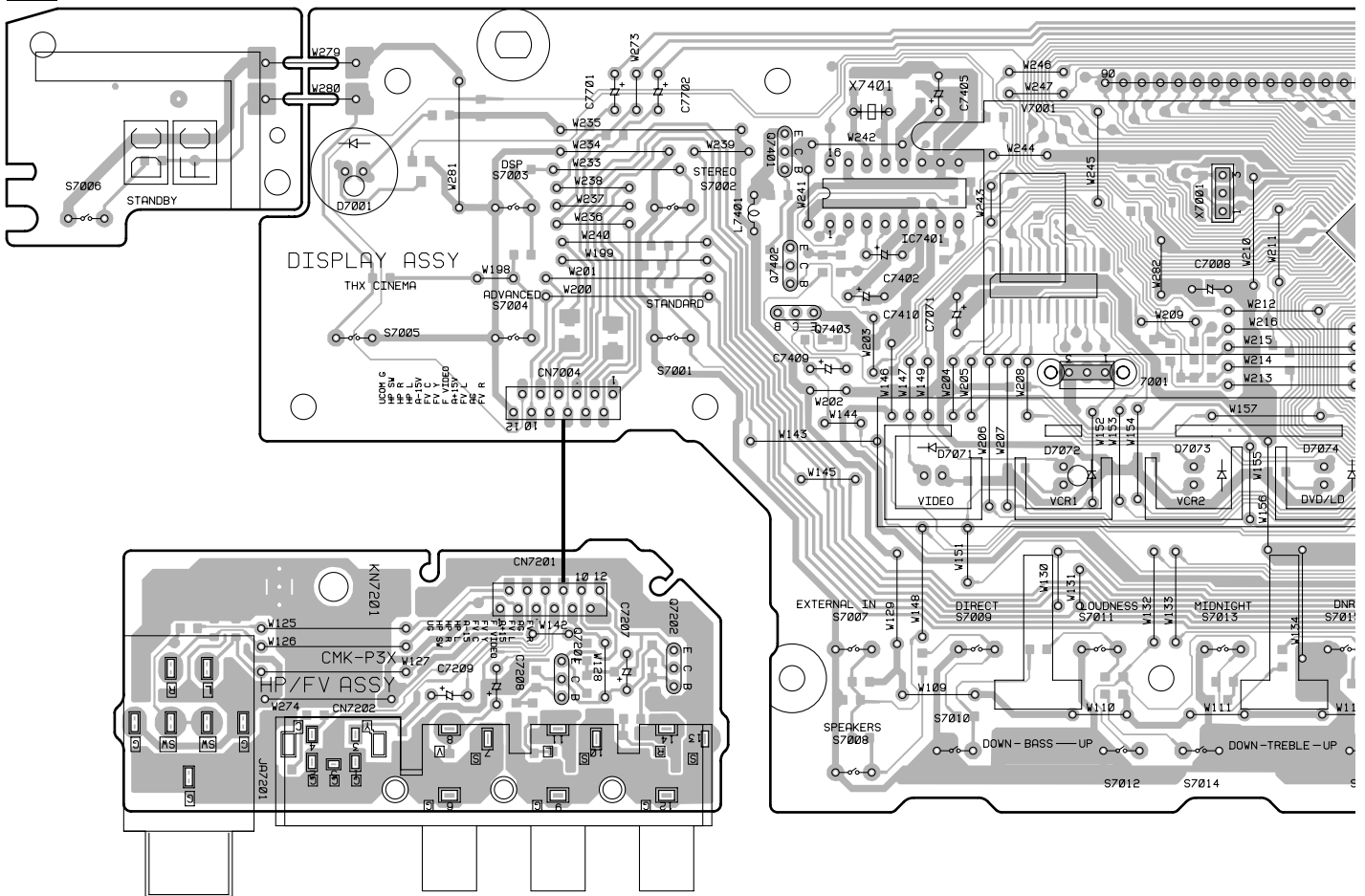


(ANP7307-B)



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

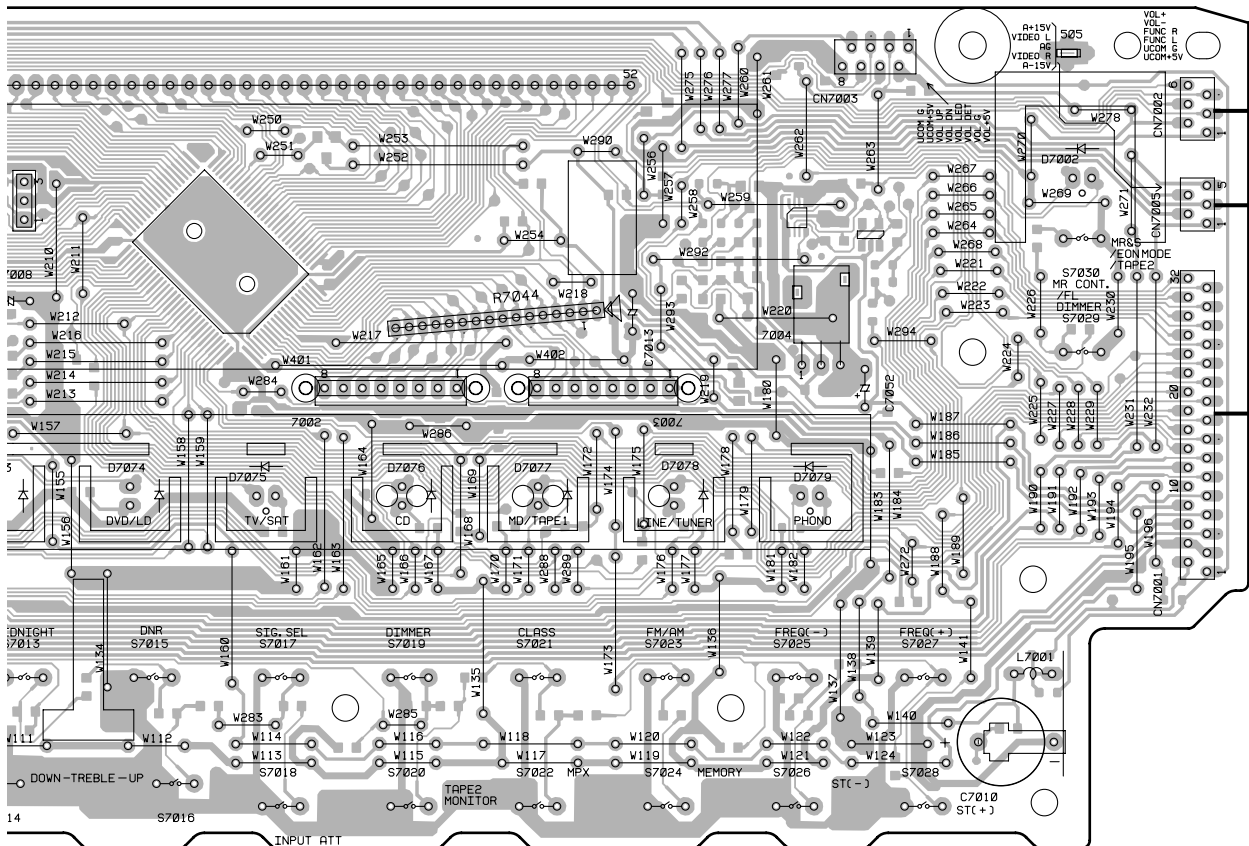
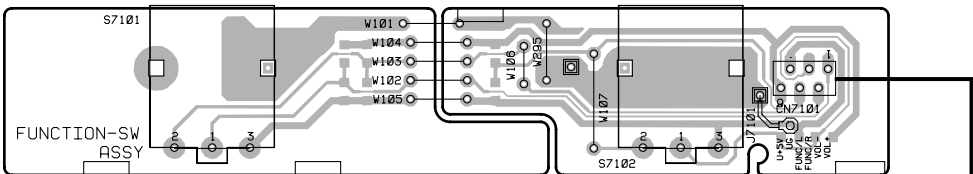
S DISPLAY ASSY



R H. PHONE/F. VIDEO ASSY



T ROTARY ENCODER ASSY



D CN906

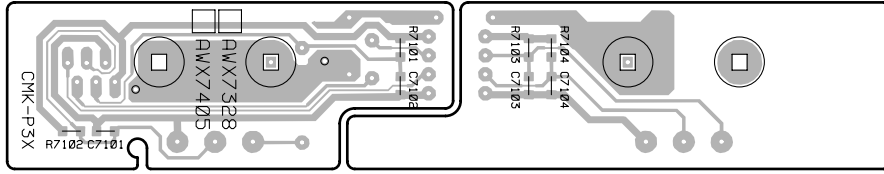
D CN904

(ANP7010-C)

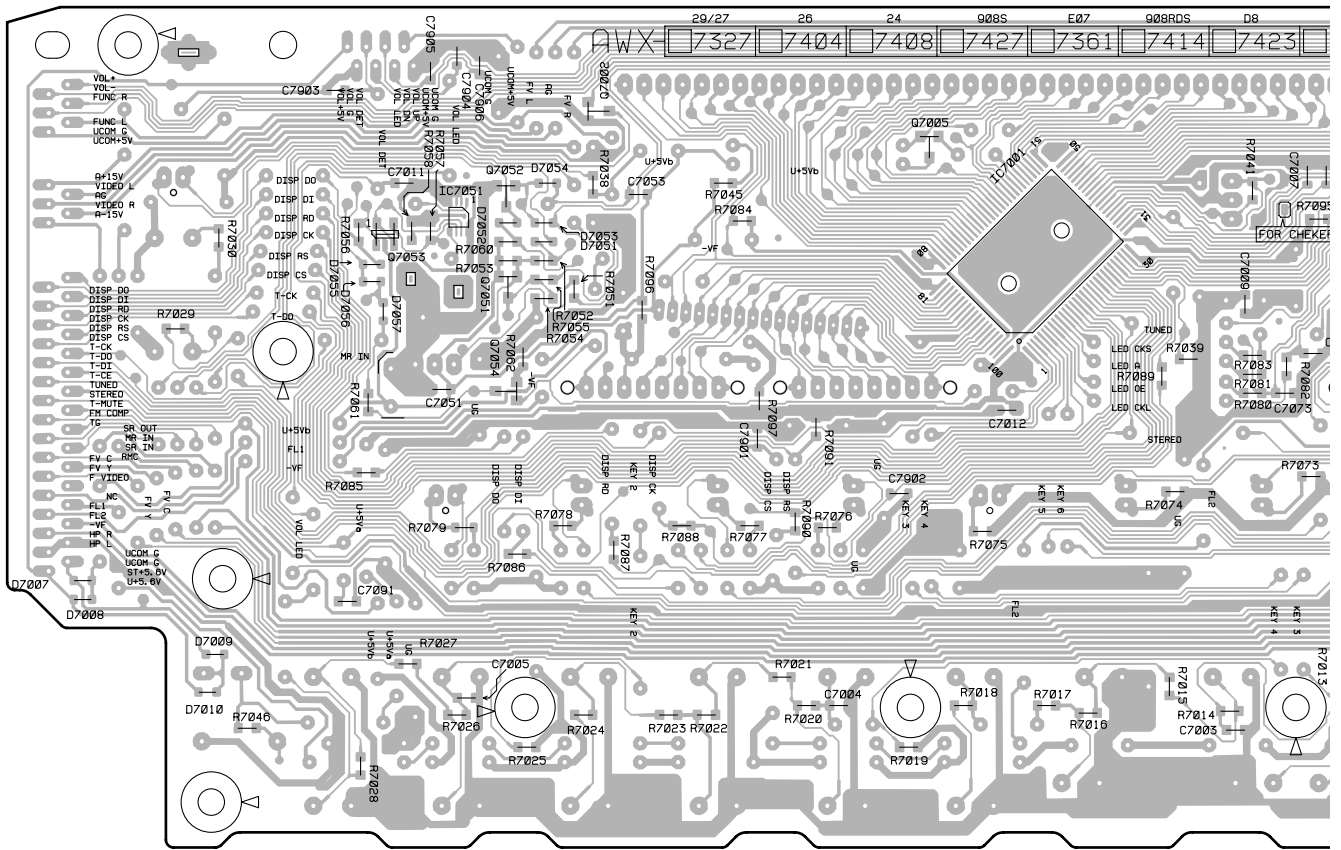
SIDE A



T ROTARY ENCODER ASSY



S DISPLAY ASSY



Q7053 Q7052 Q7002 Q7005 IC7001
 IC7051
 Q7051 Q7054

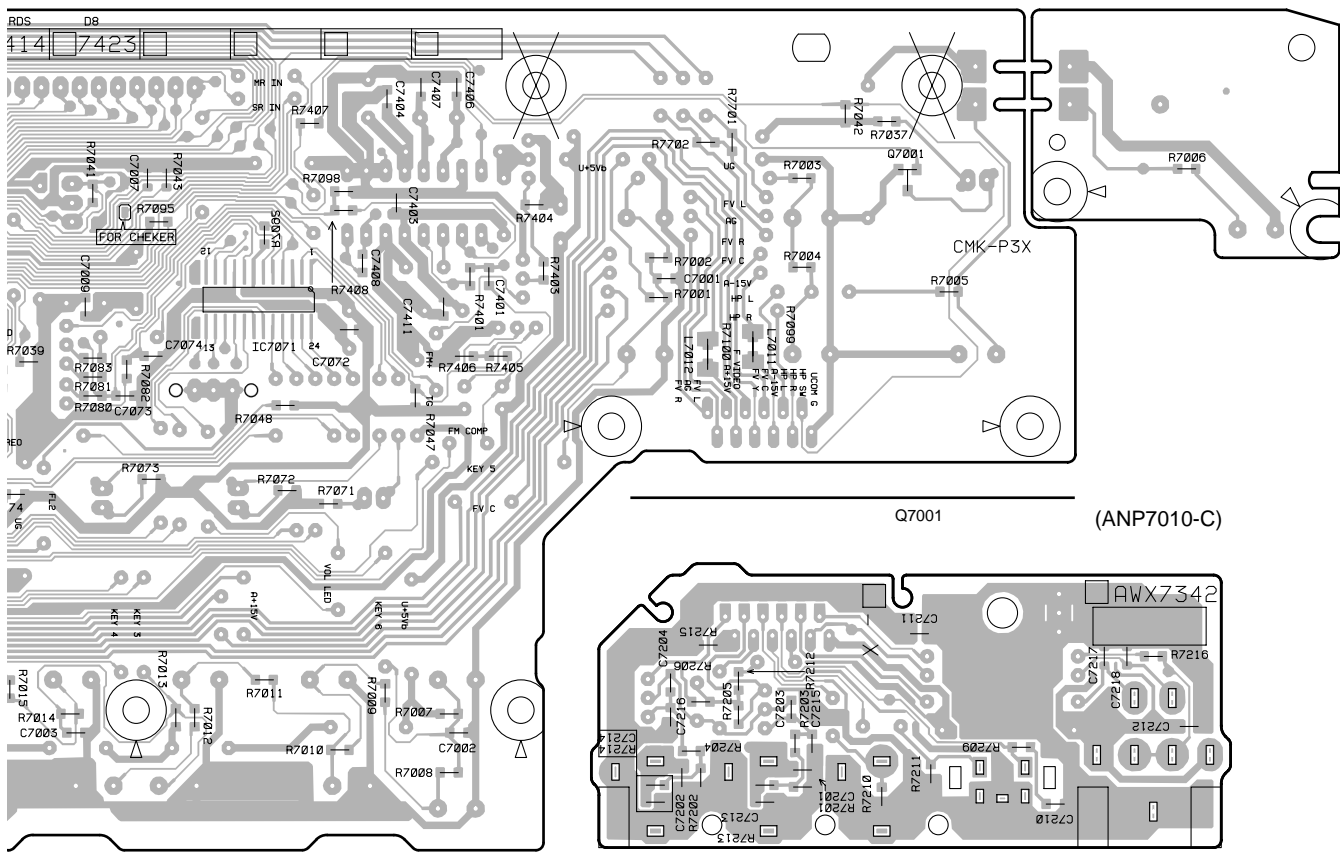


A

B

C

D



R H. PHONE/F. VIDEO
ASSY

IC7071

SIDE B



4.11 DSP ASSY

W CN1201 **X** CN1250 **Y** DSP ASSY

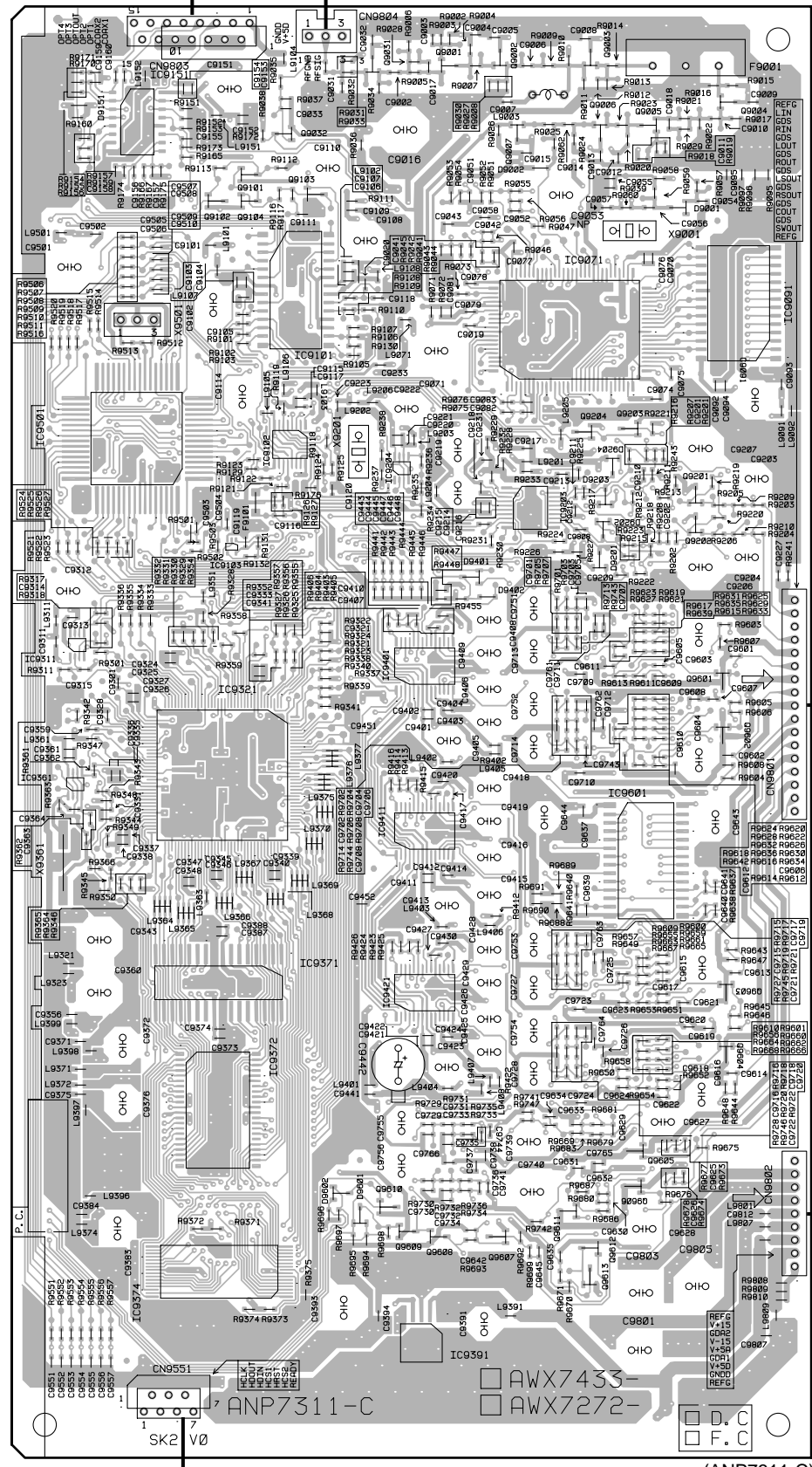
A

B

C

D

IC9151 Q9001-Q9003
 Q9032 Q9004-Q9007
 Q9101-Q9104
 IC9071 IC9091
 IC9101
 Q9201-Q9204
 IC9102 IC9204
 IC9501
 IC9103
 IC9401 IC9601
 IC9311 IC9321
 IC9361 IC9411 IC9601
 Q603
 IC9371 IC9421
 IC9372
 Q9605
 Q9606
 Q9811-Q9813
 Q9609 Q9608
 IC9374
 IC9391



M CN5007

M CN5006

D CN903

AWX7433-
 ANP7311-C
 AWX7272-
 D.C
 F.C

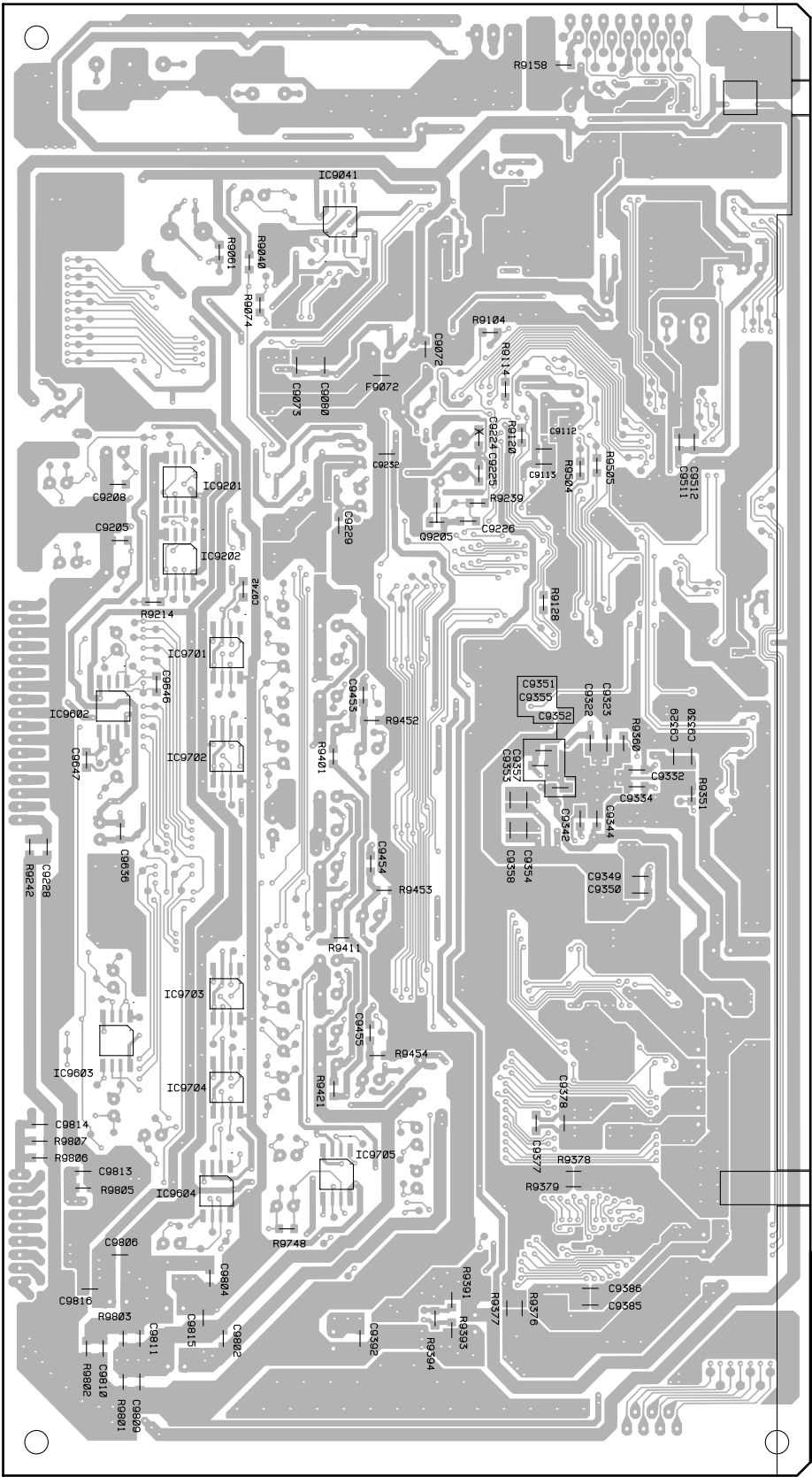
(ANP7311-C)



SIDE A

Y DSP ASSY

- IC9041
- IC9201
- Q9205
- IC9202
- IC9701
- IC9602
- IC9702
- IC9703
- IC9603
- IC9704
- IC9604
- IC9705



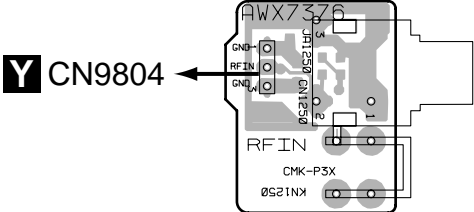
(ANP7311-C)

SIDE B

Y

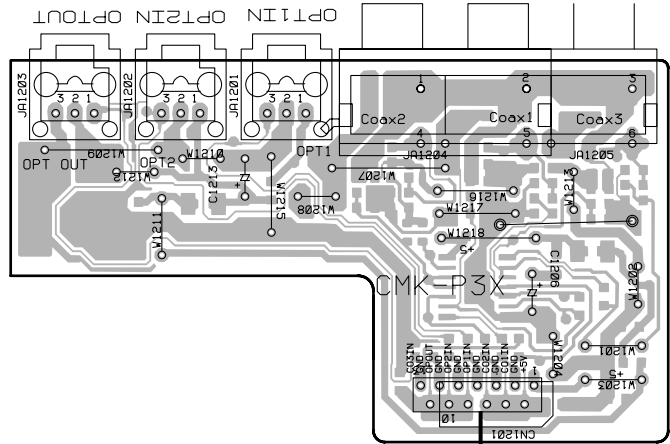
4.12 DIGITAL-I/O and RF TERMINAL ASSYS

X **RF TERMINAL ASSY**



Y **CN9804**

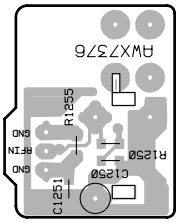
W **DIGITAL-I/O ASSY**



Y **CN9803**

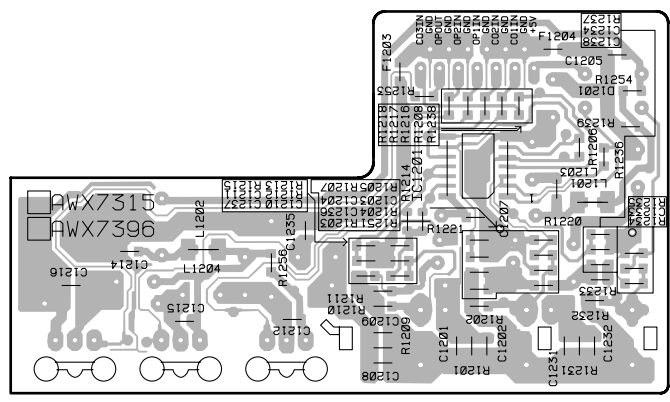
SIDE A

X **RF TERMINAL ASSY**



W **DIGITAL-I/O ASSY**

(ANP7307-B)



SIDE B

5. PCB PARTS LIST

NOTES: ● 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.

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

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 $\begin{matrix} \boxed{5} & \boxed{6} & \boxed{2} & \boxed{1} \\ \boxed{F} \end{matrix}$

Mark	No.	Description	Part No.
NSP		MAIN ASSY	AWK7528
NSP		├ RF TERMINAL ASSY	AWX7376
		├ S-VIDEO ASSY	AWX7395
		├ DIGITAL-I/O ASSY	AWX7396
		├ MAIN CONTROL ASSY	AWX7410
		└ VIDEO ASSY	AWX7422
NSP		COMPLEX ASSY (EXCEPT HV TYPE)	AWK7529
NSP		COMPLEX ASSY (ONLY HV TYPE)	AWK7557
		├ REGULATOR ASSY	AWX7310
		├ PRIMARY ASSY (EXCEPT HV TYPE)	AWX7345
		├ PRIMARY ASSY (ONLY HV TYPE)	AWX7454
		├ CONNECTION ASSY	AWX7347
		├ A-PINJACK ASSY	AWX7412
		├ EXTERNAL IN ASSY	AWX7413
		├ TRANS 2-2 ASSY	AWX7518
		└ TRANS 1 ASSY	AWX7316
NSP		FRONT/VAMP ASSY	AWK7530
		├ V-AMP ASSY	AWX7309
		├ P-SW ASSY	AWX7330
		├ H.PHONE/F.VIDEO ASSY	AWX7342
NSP		├ ROTARY ENCODER	AWX7405
		└ DISPLAY ASSY	AWX7414
NSP		POWER/CURRENT ASSY	AWK7510
NSP		├ C-AMP-P ASSY	AWX7317
		├ C-AMP-N ASSY	AWX7318
NSP		├ OUTPUT-FL ASSY	AWX7319
NSP		├ OUTPUT-FR ASSY	AWX7320
		├ OUTPUT-C ASSY	AWX7321
NSP		├ OUTPUT-SL ASSY	AWX7322
NSP		├ OUTPUT-SR ASSY	AWX7323
		├ VL-TERMINAL ASSY	AWX7324
		├ DIODE ASSY	AWX7343
		├ SP/PS ASSY	AWX7359
		└ TRANS 2-1 ASSY	AWX7403
		DSP ASSY	AWX7272

A EXTERNAL IN ASSY

CAPACITORS

C1101-C1106	CCCSL101J50
C1107-C1112	CEAT4R7M50
C1113-C1115	CKCYF103Z50

RESISTORS

All Resistors	RD1/4PU□□□□
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OTHERS

JA1101-JA1103 2P PIN JACK	AKB7095
CN1101 8P SOCKET	KP200TA8L

Mark	No.	Description	Part No.
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B A-PINJACK ASSY

CAPACITORS

C1001-C1018	CCCSL101J50
C1019-C1022	CKCYF103Z50

RESISTORS

All Resistors	RD1/4PU□□□□
---------------	-------------

OTHERS

JA1011-JA1013,JA1015 4P PIN JACK	AKB7048
1016 2P PINJACK	AKB7120
CN1001 18P SOCKET	KP200TA18L
CN1002 4P SOCKET	KP200TA4L

C CONNECTION ASSY

SEMICONDUCTORS

IC1351	M5220P
IC1301-IC1303	NJM4558D-D

COILS AND FILTERS

L1351-L1354	LAU181J
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CAPACITORS

C1353, C1354	CCCSL181J50
C1301-C1306	CCCSL331J50
C1351, C1352	CEAT100M50
C1365, C1366	CEAT101M25
C1363, C1364	CEAT2R2M50

C1357, C1358	CEAT470M25
C1307-C1312	CEAT4R7M50
C1355, C1356	CKCYB331K50
C1313-C1318	CKCYF103Z50
C1361, C1362	CQMA242J50

C1359, C1360	CQ MBA822J50
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RESISTORS

All Resistors	RD1/4PU□□□□
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OTHERS

CN1351 18P PLUG	KM200TA18
CN1352 4P PLUG	KM200TA4
CN1301 8P PLUG	KM200TA8
CN1302 10P SOCKET	KP200TA10L
CN1353 20P SOCKET	KP200TA20L

VSX-908RDS, VSX-908RDS-G

Mark	No.	Description	Part No.
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D MAIN CONTROL ASSY

SEMICONDUCTORS

IC115	NJM4558LD
IC103, IC105	NJM4558MD
IC901	PD5506A
IC104, IC107	TC9163AF
IC101	TC9274N-001
IC108	TC9482N
IC112	UPC4570G2
IC113, IC114	UPC4570HA
Q991	2SC1740S
Q251, Q252, Q992	2SC2412K
Q271, Q272	2SC2878
Q902-Q905	DTA124EK
Q901	DTC143EK
Q107-Q112	HN1C03F
D251, D252, D254, D255	1SS355
D901-D910, D991	1SS355
D995	UDZ11B
D253, D256	UDZS5.1B

COILS AND FILTERS

L901 CHIP COIL	LCTA2R2J3225
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CAPACITORS

C902	ACH7058
C155, C156, C165, C166	CCSQCH101J50
C175, C176, C951-C959	CCSQCH101J50
C962-C964	CCSQCH101J50
C101-C106, C183-C188	CCSQCH221J50
C113, C114	CCSQCH331J50
C157, C158, C167, C168, C177	CCSQCH560J50
C111, C112, C117, C118	CEAT100M50
C127-C130, C153, C154	CEAT100M50
C159, C160, C163, C164	CEAT100M50
C169, C170, C173, C174	CEAT100M50
C179, C180, C252, C255, C256	CEAT100M50
C277, C278	CEAT100M50
C123-C126, C991	CEAT101M16
C257	CEAT1R0M50
C903	CEAT221M10
C121, C122	CEAT221M16
C905	CEAT2R2M50
C915	CEAT331M10
C107, C108, C115, C116	CKSQYB103K50
C131-C140, C161, C162	CKSQYB103K50
C253, C254, C279, C280, C901	CKSQYB103K50
C904, C908, C909, C914, C919	CKSQYB103K50
C965, C995	CKSQYB103K50
C273, C274	CKSQYB104K25
C275, C276	CKSQYB332K50
C178	CKSQYB333K50
C271, C272	CKSQYB472K50
C910, C912	CKSQYB473K50
C906	CKSQYF105Z16
C992	CKSQYF225Z16

RESISTORS

R948	RA12T473J
R913	RA5T103J
R949	RA8T103J
Other Resistors	RS1/10S□□□J

Mark	No.	Description	Part No.
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OTHERS

CN903	7P FFC CONNECTOR	52044-0745
CN902	13P FFC CONNECTOR	52044-1345
CN906	5P FFC CONNECTOR	52045-0545
CN105	23P FFC CONNECTOR	52045-2345
CN905	26P FFC CONNECTOR	52045-2645
CN904	32P FFC CONNECTOR	52045-3245
CN941	4P PIN JACK	AKB7015
113	6P PIN JACK	AKB7089
JA911	2P PIN JACK	DKB1045
CN103	10P PLUG	KM200TA10
CN101	20P PLUG	KM200TA20
CN104	16P SOCKET	KP200IA16L
CN901	15P SOCKET	KP200TA15L
CN920	7P SOCKET	KP200TA7L
CN108	9P SOCKET	KP200TA9L
909, 912, 913	PCB BINDER	VEF1040
X901	CERAMIC RESONATOR (4.19MHz)	ASS1018

E V-AMP ASSY

SEMICONDUCTORS

IC581	BU4052BCF
IC7502, IC7522, IC7542, IC7602	NJM4558MD
IC7622	NJM4558MD
IC7501, IC7521, IC7541, IC7601	UPC4570G2
IC7621	UPC4570G2
Q503, Q523, Q543, Q603, Q623	2SA1048
Q506, Q509, Q526, Q529, Q546	2SA970
Q549, Q606, Q609, Q626, Q629	2SA970
Q507, Q508, Q527, Q528	2SC2240
Q547, Q548, Q561, Q607, Q608	2SC2240
Q627, Q628	2SC2240
Q510, Q530, Q550, Q610, Q630	2SC2878
Q7501, Q7521, Q7541, Q7601, Q7621	2SC2878
Q501, Q521, Q541, Q601, Q621	FMS3
Q504, Q524, Q544, Q604, Q624	FMW4
D501, D502, D504, D505	1SS355
D521, D522, D524, D525	1SS355
D541, D542, D544, D545	1SS355
D581-D588, D601, D602	1SS355
D604, D605, D621, D622	1SS355
D624, D625, D7501, D7502	1SS355
D7521, D7522, D7541, D7542	1SS355
D7601, D7602, D7621, D7622	1SS355
D7503, D7504, D7523, D7524	HZU2CLL
D7543, D7544, D7603, D7604	HZU2CLL
D7623, D7624	HZU2CLL
D503, D523, D543, D603, D623	UDZS6.8B
D506, D526, D546, D606, D626	UDZS8.2B

CAPACITORS

C511, C512, C531, C532	CCCSL181K2H
C551, C552, C611, C612	CCCSL181K2H
C631, C632	CCCSL181K2H
C509, C529, C549, C609, C629	CCCSL5R0C2H
C504, C524, C544, C604, C624	CCSQCH101J50
C7504, C7505, C7524, C7525	CCSQCH220J50
C7544, C7545, C7604, C7605	CCSQCH220J50
C7624, C7625	CCSQCH220J50
C502, C522, C542, C602, C622	CCSQCH221J50
C506, C507, C526, C527	CCSQSL560J50

Mark	No.	Description	Part No.
	C546, C547, C606, C607 C626, C627 C7501, C7521, C7541, C7601, C7621 C505, C508, C525, C528, C545 C548, C605, C608, C625, C628		CCSQSL560J50 CCSQSL560J50 CEAT100M50 CEAT101M16 CEAT101M16
	C510, C530, C550, C610, C630 C513, C533, C553, C568, C569 C613, C633 C501, C521, C541, C601, C621 C7506, C7526, C7546, C7606, C7626		CEAT470M16 CEAT470M50 CEAT470M50 CEAT4R7M50 CEAT4R7M50
	C7502, C7503, C7510, C7512 C7522, C7523, C7530, C7532 C7542, C7543, C7550, C7552 C7602, C7603, C7610, C7612 C7622, C7623, C7630, C7632		CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25
	C561-C565 C503, C523, C543, C603, C623 C570 C581, C582		CKSQYB222K50 CKSQYB332K50 CKSQYF223Z50 CKSQYF225Z16

RESISTORS

	R518, R538, R558, R618, R638	RD1/4MUF473J
△	R513, R514, R533, R534	RS1/10S121J
△	R553, R554, R613, R614	RS1/10S121J
△	R633, R634	RS1/10S121J
	Other Resistors	RS1/10S□□□□J

OTHERS

CN501	23P FFC CONNECTOR	52045-2345
CN502	28P FFC CONNECTOR	52045-2845
CN504	3P PLUG	KM250MA3
506	PCB BINDER	VEF1040

F C-AMP-N ASSY

SEMICONDUCTORS

	Q2503, Q2523, Q2543, Q2603, Q2623	2SA970
	Q2001, Q2002	2SC1740S
	Q2502, Q2522, Q2542, Q2602, Q2622	2SC4137
△	Q2501, Q2521, Q2541, Q2601, Q2621	IRF540A
	D2501-D2504, D2521-D2524	1SS133
	D2541-D2544, D2601-D2604	1SS133
	D2621-D2624	1SS133

CAPACITORS

C2501, C2521, C2541, C2601, C2621 C2001	CEANPR22M50 CEAT101M10
--	---------------------------

RESISTORS

△	R2506, R2510, R2526, R2530, R2546	RD1/4PUF391J
△	R2550, R2606, R2610, R2626, R2630	RD1/4PUF391J
△	R2501, R2521, R2541, R2601, R2621	RD1/4PUF470J
	VR2501, VR2521, VR2541 (22Ω)	RCP1134
	VR2601, VR2621 (22Ω)	RCP1134
	Other Resistors	RD1/4PU□□□□J

OTHERS

CN2001	28P FFC CONNECTOR	52045-2845
CN2501, CN2521, CN2541, CN2601	7P PLUG	KM250NA7L
CN2621	8P PLUG	KM250NA8L

Mark	No.	Description	Part No.
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G C-AMP-P ASSY

SEMICONDUCTORS

△	Q2504, Q2524, Q2544, Q2604, Q2624	IRF9540A
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RESISTORS

△	R2511, R2531, R2551, R2611, R2631	RD1/4PUF470J
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OTHERS

CN2504, CN2524, CN2544	5P PLUG	KM250NA5L
CN2604, CN2624	5P PLUG	KM250NA5L

HA OUTPUT-SL ASSY

RESISTORS

△	R2612 (0.05Ω/5W)	ACN7097
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OTHERS

CN2603	5P SOCKET	KP250NA5
CN2602	7P SOCKET	KP250NA7

HB OUTPUT-FL ASSY

RESISTORS

△	R2512 (0.05Ω/5W)	ACN7097
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OTHERS

CN2503	5P SOCKET	KP250NA5
CN2502	7P SOCKET	KP250NA7

HC OUTPUT-C ASSY

RESISTORS

△	R2552 (0.05Ω/5W)	ACN7097
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OTHERS

CN2543	5P SOCKET	KP250NA5
CN2542	7P SOCKET	KP250NA7

HD OUTPUT-FR ASSY

RESISTORS

△	R2532 (0.05Ω/5W)	ACN7097
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OTHERS

CN2523	5P SOCKET	KP250NA5
CN2522	7P SOCKET	KP250NA7

HE OUTPUT-SR ASSY

RESISTORS

△	R2632 (0.05Ω/5W)	ACN7097
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OTHERS

CN2623	5P SOCKET	KP250NA5
CN2622	8P SOCKET	KP250NA8

VSX-908RDS, VSX-908RDS-G

Mark	No.	Description	Part No.
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I VL-TERMINAL ASSY

CAPACITORS

C2011, C2012	CEAT1R0M2A
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OTHERS

KN2011, KN2012 GROUND PLATE	ANK-142
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J TRANS 2-1 ASSY

SEMICONDUCTORS

△ IC4501, IC4502 (2.5A)	AEK7014
Q4502	2SA1837
Q4501	2SC4793
Q4504	DTA143ES
Q4505	DTC124ES
Q4503	DTC143ES
D4509, D4510	MTZJ12B
D4513	MTZJ16B
D4505-D4508	MTZJ20A
D4501-D4504, D4511, D4512	S5688G

CAPACITORS

C4503 (1μF/100V, NP)	ACH1237
C4507, C4508	CEAT471M63
C4509, C4510	CECA101M50
C4501, C4502	CQMA333K2E

RESISTORS

R4509, R4510	RD1/4PMF332J
R4501-R4503	RFA1/4PS220J
Other Resistors	RD1/4PU□□□□

OTHERS

4001 9P CABLE HOLDER	51048-0900
H4501-H4504 FUSE CLIP	AKR1004
4501, 4502 HEAT SINK	ANH-309
4503, 4504 SCREW	BPZ30P080FZK

K DIODE ASSY

SEMICONDUCTORS

△ D3001, D3002	D5SBA20(B)
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L SP/PS ASSY

SEMICONDUCTORS

IC3001 (750mA)	AEK7007
Q3504	2SC2235
Q3503	2SC4793
Q3005, Q3156-Q3159, Q3501	DTA124ES
Q3502	DTC124ES
Q3151-Q3155	DTC143ES
D3051-D3060	1SS133
D3506, D3508	MTZJ12C
D3505	MTZJ27D
D3507	MTZJ5.1B
D3501, D3502	S5688G

COILS AND FILTERS

L3101-L3105 AF CHOKE COIL	ATH1053
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Mark	No.	Description	Part No.
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SWITCHES AND RELAYS

RY3101-RY3105	ASR7014
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CAPACITORS

C3001, C3002 (22000μF/56V)	
C3118	CEAT100M50
C3502	CEAT1R0M50
C3504	CEAT471M25
C3501	CEAT471M35
C3101-C3110	CFTYA224J50
C3503	CKCYF103Z50
C3111-C3117	CQMA332K2E

RESISTORS

R3151-R3155	RD1/2PM331J
R3503	RD1/4PU102J
R3507	RD1/4PU103J
R3504	RD1/4PU104J
R3506	RD1/4PU222J
R3501	RD1/4PU471J
R3502	RD1/4PU473J
R3133, R3134	RS1LMF471J
R3106-R3110	RS1LMF4R7J
R3131, R3132	RS2LMF331J
R3505	RS3LMF221J
Other Resistors	RD1/4PM□□□□

OTHERS

3004 8P CABLE HOLDER	51048-0800
3001 9P CABLE HOLDER	51048-0900
CN3003 14P FFC CONNECTOR	52045-1445
CN3101 8P SPEAKER TERMINAL	AKE7044
CN3102 6P SPEAKER TERMINAL	AKE7045
J3002 JUMPER WIRE 8P	D20PYY0825E
J3001 JUMPER WIRE 9P	D20PYY0915E
CN3001 4P PLUG	KM200TA4
CN3002 3P PLUG	KM250MA3
KN3001 EARTH METAL FITTING	VNF1084

M REGULATOR ASSY

SEMICONDUCTORS

△ IC5009, IC5010 (200mA)	AEK7023
△ IC5004, IC5008	NJM78M05FA
△ IC5003	NJM78M12FA
△ IC5001	NJM78M15FA
△ IC5005, IC5007	NJM78M56FA
△ IC5006	NJM79M05FA
△ IC5002	NJM79M15FA
D5010	1SS133
△ D5009	D3SBA20(B)
D5012-D5014	MTZJ10C
D5011	MTZJ5.1B
△ D5001-D5008, D5015-D5017	S5688G

CAPACITORS

C5015, C5017, C5019, C5021, C5023	CEAT101M10
C5009, C5011, C5013, C5025	CEAT101M25
C5024	CEAT101M50
C5026	CEAT221M35
C5027, C5028	CEAT221M50

Mark	No.	Description	Part No.
	C5001, C5003, C5006		CEAT222M25
	C5002, C5004		CEAT222M35
	C5005		CEAT332M25
	C5007		CEAT472M16
	C5008, C5010, C5012, C5014, C5016		CKCYF103Z50

	C5018, C5020, C5022		CKCYF103Z50
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RESISTORS

	R5001–R5003		RD1/2PM620J
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OTHERS

5009	4P CABLE HOLDER	51048-0400
CN5002	14P FFC CONNECTOR	52045-1445
CN5001	8P JUMPER CONNECTOR	52147-0810
J5000	BOARD IN WIRE	DB022ND0
CN5004	16P PLUG	KM200IA16

CN5005	15P PLUG	KM200TA15
CN5007	17P PLUG	KM200TA17
CN5008	7P PLUG	KM200TA7
CN5003, CN5006	9P PLUG	KM200TA9
KN5001, KN5002	EARTH METAL FITTING	VNF1084

N TRANS 1 ASSY

TRANS 1 Assy has no service parts.

O TRANS 2-2 ASSY

SEMICONDUCTORS

△	IC5501 (4A)	AEK7018
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CAPACITORS

△	C5502 (1μF/100V)	ACH1237
△	C5501	CEANPR47M50

RESISTORS

△	R5501	RFA1/4PS100J
	Other Resistors	RD1/4PU□□□J

OTHERS

5501	4P CABLE HOLDER	51048-0400
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P VIDEO ASSY

SEMICONDUCTORS

IC751	BU4053BCF
IC752	LC74782M-9011
IC701	NJM2296M
Q701	2SA933S
Q751–Q754	2SC1740S
Q755	DTC124EK

D701, D702, D751–D753	1SS355
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COILS AND FILTERS

L752, L753	CHIP COIL	LCTA100J3225
L751	CHIP COIL	LCTA330J3225

CAPACITORS

C753	CCSQCH100D50
C763, C772	CCSQCH101J50
C715, C759	CCSQCH150J50
C760	CCSQCH180J50
C705–C707	CCSQCH181J50

Mark	No.	Description	Part No.
	C761, C762		CCSQCH240J50
	C754		CEAT100M50
	C701–C704, C710–C712		CEAT101M10
	C734, C735, C755, C764, C765		CEAT101M10
	C781–C784		CEAT101M10

	C713, C768, C769		CEAT101M16
	C757		CEAT1R0M50
	C752		CEAT330M16
	C795, C797		CKSQYB103K50
	C756		CKSQYB122K50

	C708, C709, C714, C766, C767		CKSQYB473K50
	C770, C771, C785, C786, C793		CKSQYB473K50

RESISTORS

R715	RD1/2VM201J
Other Resistors	RS1/10S□□□J

OTHERS

CN702	21P FFC CONNECTOR	52045-2145
CN701	26P FFC CONNECTOR	52045-2645
702, 705, 706	2P RCA PIN JACK	AKB7017
707	1P RCA PIN JACK	AKB7020
704	PCB BINDER	VEF1040

X751	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
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Q S-VIDEO ASSY

SEMICONDUCTORS

IC831	BU4051BCF
IC852	BU4053BCF
IC851	LA7213
IC801, IC802	NJM2296M
Q852, Q853	2SA933S

Q851	DTC124ES
Q833, Q834	IMH11
Q831	IMZ1A
D801, D802, D804, D805, D851	1SS355

CAPACITORS

C857	CCSQCH100D50
C854	CCSQCH151J50
C815–C818, C861, C862	CCSQCH181J50
C898	CCSQCH221J50
C809, C858	CCSQCH330J50

C801, C803, C805, C807	CEAT101M10
C819–C822, C852, C853, C863	CEAT101M10
C881, C882	CEAT101M10
C866, C868	CEAT101M16
C851	CEAT3R3M50

C831–C836, C855, C856, C891	CKSQYB103K50
C893, C894, C899	CKSQYB103K50
C810–C814, C859, C860	CKSQYB104K25
C864, C865	CKSQYB104K25
C802, C804, C806, C808	CKSQYB473K50

C823–C826, C867, C869	CKSQYB473K50
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RESISTORS

R864	RD1/2VM201J
R859	RD1/4VM471J
Other Resistors	RS1/10S□□□J

VSX-908RDS, VSX-908RDS-G

Mark	No.	Description	Part No.
OTHERS			
	CN804	21P FFC CONNECTOR	52045-2145
	CN802, CN803	4P MINI DIN SOCKET	AKP7020
	CN801	4P MINI DIN SOCKET	AKP7043
	JA881, JA882	REMOTE CONTROL JACK	RKN1004
	801	PCB BINDER	VEF1040

R H. PHONE/F. VIDEO ASSY

SEMICONDUCTORS

Q7201, Q7202 2SC1740S

CAPACITORS

C7201, C7202, C7215, C7216 CCSQCH271J50
 C7203, C7204 CCSQCH330J50
 C7208, C7209 CEAT101M10
 C7207 CEAT470M35
 C7210, C7212 CKSQYB103K50

 C7211 CKSQYB104K25
 C7213, C7214 CKSQYB105K10
 C7217, C7218 CKSQYB392K50

RESISTORS

All Resistors RS1/10S□□□J

OTHERS

CN7201 12P FFC CONNECTOR 52045-1245
 CN7202 FRONT PIN JACK 4P AKX7007
 JA7201 HEADPHONE JACK RKB1014
 KN7201 EARTH METAL FITTING VNF1084

S DISPLAY ASSY

SEMICONDUCTORS

IC7401 BU1923
 IC7001 PD5507B
 Q7051 2SA1037K
 Q7401 2SA1993
 Q7403 2SC1740S

 Q7005 2SC2412K
 Q7001, Q7002, Q7052 DTC124EK
 Q7402 DTC143ES
 D7007-D7010, D7051-D7053 1SS355
 D7001, D7002 SLR-343VR(MNP)

COILS AND FILTERS

L7011, L7012 LCTA330J3225
 L7001, L7401 LFA2R2J

SWITCHES AND RELAYS

S7001-S7030 VSG1009

CAPACITORS

C7010 (0.047μF/5.5V) ACH7132
 C7007 CCSQCH101J50
 C7406, C7407 CCSQCH270J50
 C7008, C7013 CEAL101M6R3
 C7701, C7702 CEAT100M50

 C7405 CEAT101M10
 C7052, C7410 CEAT101M6R3
 C7409 CEAT1R0M50
 C7402 CEAT2R2M50
 C7001-C7005, C7091, C7403, C7404 CKSQYB102K50

Mark	No.	Description	Part No.
	C7051		CKSQYB103K50
	C7401		CKSQYB472K50
	C7009		CKSQYB473K50
	C7408		CKSQYB561K50

RESISTORS

R7044 RA15T104J
 Other Resistors RS1/10S□□□J

OTHERS

7001 3P CABLE HOLDER 51052-0300
 7002, 7003 8P CABLE HOLDER 51052-0800
 CN7005 5P FFC CONNECTOR 52045-0545
 CN7002 6P FFC CONNECTOR 52045-0645
 CN7004 12P FFC CONNECTOR 52045-1245

 CN7001 32P FFC CONNECTOR 52045-3245
 V7001 FL TUBE AAV7063
 X7401 CRYSTAL RESONATOR ASS7004
 (4.332MHz)
 X7001 CERAMIC RESONATOR ASS7018
 (7.2MHz)

 7004 REMOTE RECEIVER UNIT GP1U28X

T ROTARY ENCODER ASSY

SWITCHES AND RELAYS

S7101 ASX7004
 S7102 ASX7031

CAPACITORS

C7101-C7104 CKSQYB103K50

RESISTORS

All Resistors RS1/10S□□□J

OTHERS

CN7101 6P FFC CONNECTOR 52044-0645

U P-SW ASSY

SWITCHES AND RELAYS

S6801 ASG1035

CAPACITORS

C6801, C6802 CGCYX103K25

OTHERS

CN6801 52151-0310

V PRIMARY ASSY

(1) CONTRAST TABLE

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

Mark	Symbol and Description	Part No.		Remarks
		AWX7345	AWX7454	
	Y6003 BOARD IN	ADX7321	Not used	
	Y6004 BOARD IN	ADX7320	Not used	
	Y6005 BOARD IN	ADX7319	Not used	

Mark No. Description Part No.

(2) PARTS LIST FOR AWX7345

SEMICONDUCTORS

	IC6001	NJM78M56FA
	Q6001	DTC143ES
	D6005-D6007	1SS133
	D6008	MTZJ5.1A
△	D6001-D6004	S5688G

COILS AND FILTERS

△	L6001	LINE FILTER	ATF1006
△	L6003, L6004		ATX1012

TRANSFORMERS

△	T6001	STANDBY TRANS.	ATT7040
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SWITCHES AND RELAYS

△	RY6001	POWER RELAY	ASR1044
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CAPACITORS

△	C6002, C6003 (10000pF/AC250V)	ACG7020
	C6005	CEAT102M16
	C6006	CEAT470M25
	C6004	CKCYF103Z50

RESISTORS

R6003	RD1/2PM270J
Other Resistors	RD1/4PU□□□□

OTHERS

6001	3P CABLE HOLDER	51048-0300
Y6005	AWG18 BOARD IN	ADX7319
Y6004	AWG18 BOARD IN	ADX7320
Y6003	AWG18 BOARD IN	ADX7321
H6001, H6002	FUSE CLIP	AKR1004

J6000	3P JUMPER WIRE	D20PYY0335E
CN6003	4P SOCKET	KP200TA4L
△ CN6002	AC CORD SOCKET	RKP1751
6005, 6006	PCB BINDER	VEF1040
6002, 6003	SCREW TERMINAL	VNE1948

W DIGITAL-I/O ASSY

SEMICONDUCTORS

IC1201	TC74HCU04AF
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COILS AND FILTERS

F1203-F1206	CHIP BEAD	DTF1064
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CAPACITORS

C1204, C1211	CCSQCH470J50
C1206, C1213	CEAT470M10
C1203, C1210	CKSQYB103K50
C1207, C1212, C1215, C1216	CKSQYF104Z25
C1236, C1237	CKSQYF104Z25

RESISTORS

All Resistors	RS1/10S□□□□
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OTHERS

CN1201	11P FFC CONNECTOR	52045-1145
JA1204	2P PIN JACK	AKB7095
JA1201, JA1202		GP1F37R1
	OPTICAL RECEIVE MOD.	
JA1203	OPTICAL LINK MOD.	GP1F38T2

Mark No. Description Part No.

X RF TERMINAL ASSY

CAPACITORS

C1251	CKSQYB473K50
C1250	CKSQYF473Z50

RESISTORS

All Resistors	RS1/10S□□□□
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OTHERS

CN1250	3P PLUG	KM250MA3
JA1250	1P PIN JACK (AU, BLK)	VKB1074
1250	SCREW TERMINAL	VNE1948

Y DSP ASSY

SEMICONDUCTORS

IC9203	CS5360-KS
IC9101	CS8414-CS
IC9201, IC9202	NJM2100M
IC9041	NJM4558MD
IC9401, IC9411, IC9421	PCM1716E

IC9501	PD5503A
IC9374	PDK042A
IC9071	PM4007A
IC9391	PQ20WZ51
IC9091	SRM2B256SLMX70

IC9372	TC55V1664BFT-12
IC9371	TC55V8128BJ-12
IC9151	TC74ACT151F
IC9102	TC74VHC157FT
IC9103	TC7SH08FU

IC9311	TC7WT241FU
IC9204, IC9361	TC7WU04FU
IC9601	TC9164AF
IC9602-IC9604, IC9701-IC9705	UPC4570G2
IC9321	XCD56362PV100

Q9007	2PB709A
Q9003, Q9032	2PD601A
Q9001, Q9002, Q9004-Q9006, Q9031	2SC3082K
Q9201, Q9202, Q9601-Q9606	2SC3326
Q9102, Q9104, Q9203, Q9607	DTA124EK

Q9609, Q9610	DTA124EK
Q9101, Q9103, Q9204, Q9205, Q9608	DTC124EK
D9601, D9602	1SS181
D9201-D9204	1SS226
D9002	1SS355

D9001	KV1851
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COILS AND FILTERS

F9001	BPF	ATF7001
L9003	INDUCTOR	ATH7001
L9071, L9104, L9321, L9323, L9391		ATL7002
L9399, L9402-L9408, L9501, L9801		ATL7002
L9807, L9809		ATL7002
	CHIP FERRITE BEAD	

F9072	CHIP BEAD	DTF1064
L9091, L9092, L9101, L9102		QTL1013
L9105-L9108, L9151, L9152		QTL1013
L9203-L9206, L9311, L9361		QTL1013
L9371, L9372, L9374, L9396-L9398		QTL1013
	CHIP SOLID INDUCTOR	

VSX-908RDS, VSX-908RDS-G

Mark	No.	Description	Part No.
CAPACITORS			
	C9329, C9349, C9355, C9357, C9358	CCSQCH101J50	
	C9378, C9386	CCSQCH101J50	
	C9232, C9453–C9455, C9742, C9809	CCSQCH221J50	
	C9815, C9816	CCSQCH221J50	
	C9112, C9512	CCSQCH271J50	
	C9224, C9225	CCSQCH330J50	
	C9033, C9325, C9326, C9335, C9337	CCSRCH101J50	
	C9339, C9341, C9345, C9347, C9374	CCSRCH101J50	
	C9387, C9609, C9610, C9721, C9722	CCSRCH101J50	
	C9735	CCSRCH101J50	
	C9364	CCSRCH180J50	
	C9363	CCSRCH220J50	
	C9095, C9231, C9233, C9621, C9622	CCSRCH221J50	
	C9743, C9744, C9761–C9766	CCSRCH221J50	
	C9057, C9201, C9202	CCSRCH270J50	
	C9076, C9104, C9106, C9154, C9214	CCSRCH271J50	
	C9220, C9362, C9402, C9412, C9422	CCSRCH271J50	
	C9629	CCSRCH271J50	
	C9719, C9720, C9733	CCSRCH331J50	
	C9741	CCSRCH470J50	
	C9451, C9452, C9509, C9617, C9618	CCSRCH471J50	
	C9639	CCSRCH471J50	
	C9211, C9717, C9718, C9731, C9808	CCSRCH561J25	
	C9007	CCSRCH750J50	
	C9707, C9708	CCSRCH820J50	
	C9611, C9612	CCSRCH821J25	
	C9312, C9643, C9644, C9756	CEJA100M25	
	C9071, C9393, C9501, C9740, C9801	CEJA101M10	
	C9442	CEJA221M10	
	C9343, C9360	CEJA221M6R3	
	C9216, C9219, C9222, C9403, C9405	CEJA330M10	
	C9408, C9413, C9415, C9418, C9423	CEJA330M10	
	C9425, C9428	CEJA330M10	
	C9091, C9102, C9108, C9114, C9151	CEJA470M16	
	C9372, C9376, C9383	CEJA470M16	
	C9016, C9803, C9805	CEJA470M25	
	C9406, C9409, C9416, C9419, C9426	CEJA470M6R3	
	C9429	CEJA470M6R3	
	C9206, C9207, C9391	CEJA4R7M50	
	C9053	CEJANP4R7M25	
	C9110	CEJAR47M50	
	C9713, C9714, C9727, C9728, C9739	CEWAR330M10	
	C9751–C9755	CEWAR330M10	
	C9203, C9204, C9603, C9604	CEWAR4R7M50	
	C9615, C9616, C9627, C9628	CEWAR4R7M50	
	C9113, C9322, C9323, C9332, C9334	CKSQYB103K50	
	C9342, C9344, C9350–C9354, C9377	CKSQYB103K50	
	C9385, C9636	CKSQYB103K50	
	C9330	CKSQYB474K16	
	C9073, C9080, C9205, C9208, C9511	CKSQYF104Z25	
	C9212, C9554	CKSRYB102K50	
	C9014, C9054, C9056, C9070, C9103	CKSRYB103K50	
	C9105, C9107, C9119, C9153, C9158	CKSRYB103K50	
	C9221, C9313, C9324, C9327, C9333	CKSRYB103K50	
	C9336, C9338, C9340, C9346, C9348	CKSRYB103K50	
	C9361, C9373, C9388, C9401, C9411	CKSRYB103K50	
	C9421, C9637	CKSRYB103K50	
	C9626, C9730	CKSRYB104K16	
	C9605, C9606, C9633	CKSRYB122K50	
	C9703, C9704, C9715, C9716, C9729	CKSRYB182K50	

Mark	No.	Description	Part No.
	C9601, C9602, C9613, C9614, C9625	CKSRYB222K50	
	C9701, C9702	CKSRYB272K50	
	C9732	CKSRYB333K16	
	C9645	CKSRYB472K50	
	C9215, C9218, C9404, C9407, C9410	CKSRYB473K16	
	C9414, C9417, C9420, C9424, C9427	CKSRYB473K16	
	C9430	CKSRYB473K16	
	C9359	CKSRYB562K50	
	C9111	CKSRYB682K50	
	C9020	CKSRYB683K16	
	C9736	CKSRYB821K50	
	C9002–C9006, C9008–C9013, C9015	CKSRYF104Z16	
	C9017, C9018, C9031, C9032, C9043	CKSRYF104Z16	
	C9051, C9052, C9055, C9058	CKSRYF104Z16	
	C9074, C9075, C9077–C9079, C9081	CKSRYF104Z16	
	C9092, C9209, C9210, C9607, C9608	CKSRYF104Z16	
	C9619, C9620, C9631, C9632	CKSRYF104Z16	
	C9709–C9712, C9723–C9726	CKSRYF104Z16	
	C9737, C9738	CKSRYF104Z16	
	C9041, C9042	CKSRYF105Z10	

RESISTORS

R9158, R9351, R9376–R9379, R9394	RS1/10S0R0J
R9401, R9411, R9421, R9452–R9454	RS1/10S0R0J
R9104	RS1/10S101J
R9114, R9239, R9504, R9505	RS1/10S102J
R9214	RS1/10S103J
R9393	RS1/10S2001F
R9074, R9128	RS1/10S221J
R9120	RS1/10S331J
R9061	RS1/10S471J
R9360	RS1/10S472J
R9391	RS1/10S5100F
Other Resistors	RS1/16S□□□J

OTHERS

CN9551 7P FFC CONNECTOR	52045-0745
CN9803 11P FFC CONNECTOR	52045-1145
PC BOARD DSP	ANP7311
CN9804 3P PLUG	KM250MA3
CN9801 17P SOCKET	KP200TA17L
CN9802 9P SOCKET	KP200TA9L
X9501 CERAMIC RESONATOR (7.70MHz)	ASS1055
X9001 CRYSTAL RESONATOR (18.432MHz)	ASS7009
X9361 CRYSTAL RESONATOR (20MHz)	ASS7023
X9201 CRYSTAL RESONATOR (12.288MHz)	DSS1030

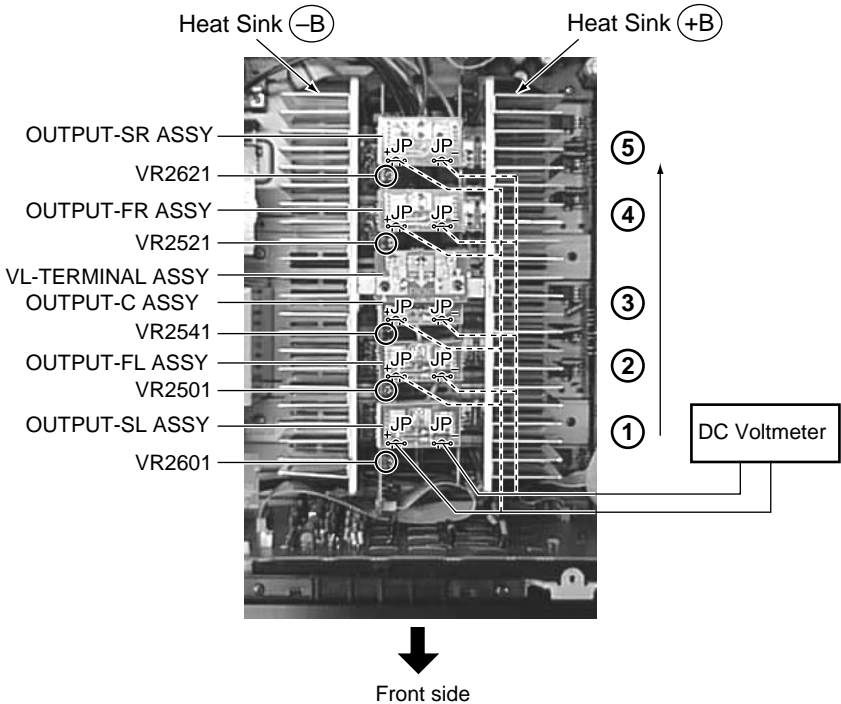
6. ADJUSTMENT

6.1 IDLE CURRENT ADJUSTMENT

• **CAUTION** : Heatsink's DC level is equal to +B or -B.
 Don't touch them or you will be electricary shocked.

1. Decrease the level of the Adjustment Variable resistors (VR) for the channel to be adjusted. (Turn counterclockwise.)
2. Set the power switch to ON.
3. Connect the DC voltmeter as shown below and adjust VRs in step No. order so that voltages become $16mV^{+4mV}$ $-0mV$.
4. Ages for seven minutes.
5. Readjust in step No. order so that the voltages become $11.5mV \pm 1mV$ (10.5 to 12.5mV). Adjustment is completed.

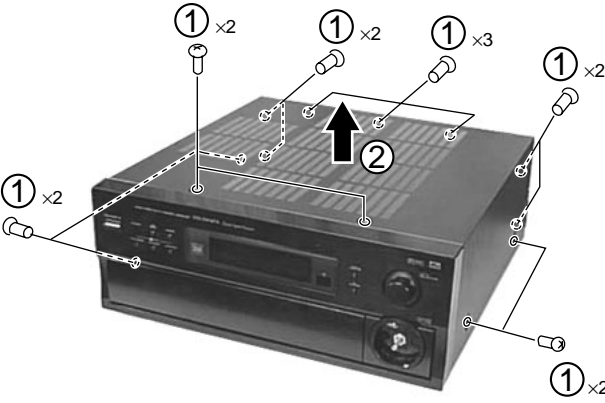
Step No.	Adjustment VR	Adjustment ch
1	VR2601	SL ch
2	VR2501	FL ch
3	VR2541	C ch
4	VR2521	FR ch
5	VR2621	SR ch



7. GENERAL INFORMATION

7.1 DISASSEMBLY

■ C-AMP-N and C-AMP-P ASSYS

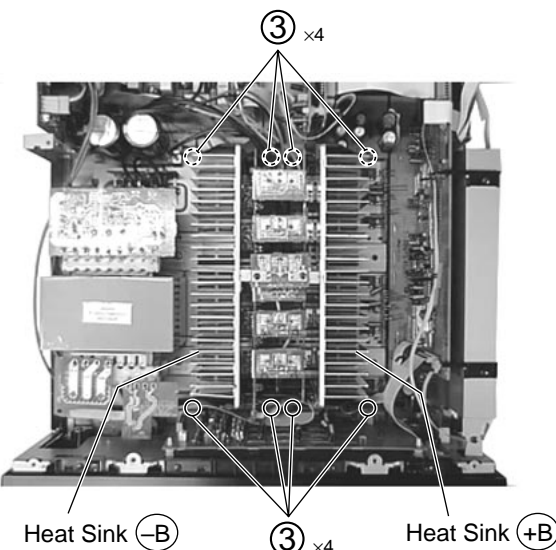


① x2 ① x2 ① x3 ① x2

① x2 ① x2

②

↓

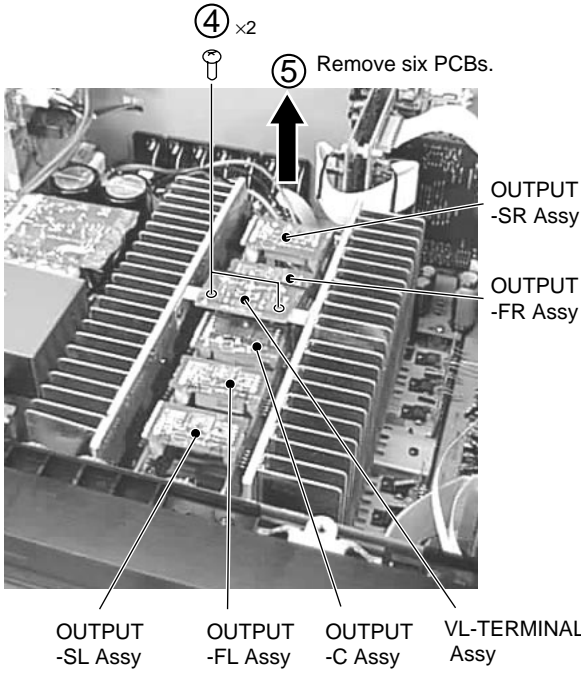


③ x4

Heat Sink (-B) ③ x4 Heat Sink (+B)

• **CAUTION** : Heatsink's DC level is equal to +B or - B. Don't touch them or you will be electrically shocked.

↓



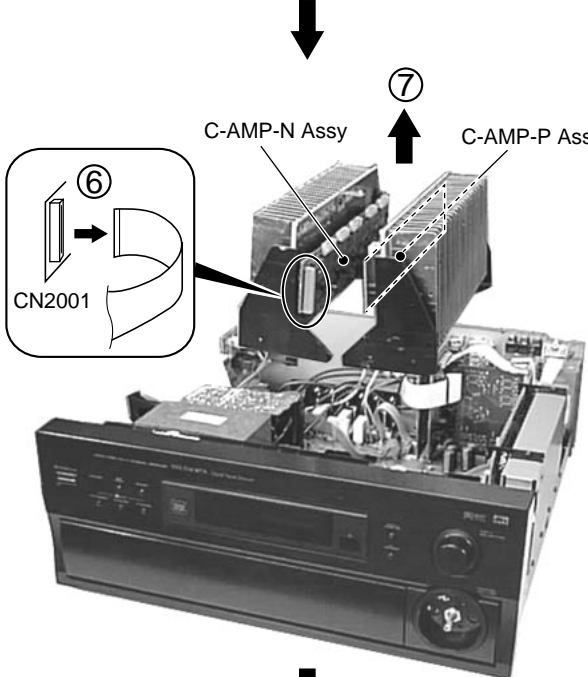
④ x2 ⑤ Remove six PCBs.

OUTPUT-SR Assy

OUTPUT-FR Assy

OUTPUT-SL Assy OUTPUT-FL Assy OUTPUT-C Assy VL-TERMINAL Assy

↓



⑦

C-AMP-N Assy C-AMP-P Assy

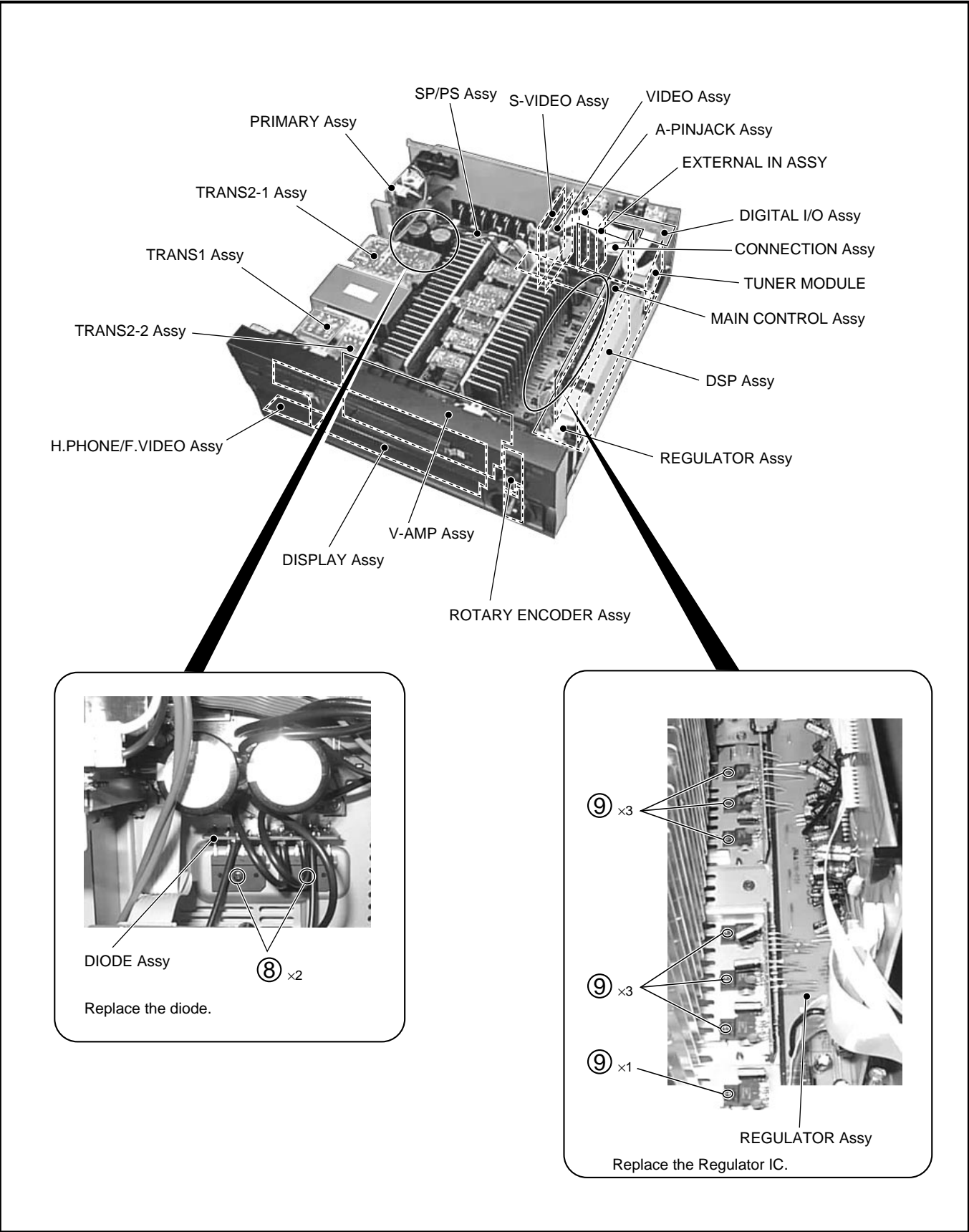
⑥

CN2001

↓

Replace the FETs on the C-AMP-N and C-AMP-P assemblies.

DIODE, REGULATOR and Other ASSYS



7.2 PARTS

7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

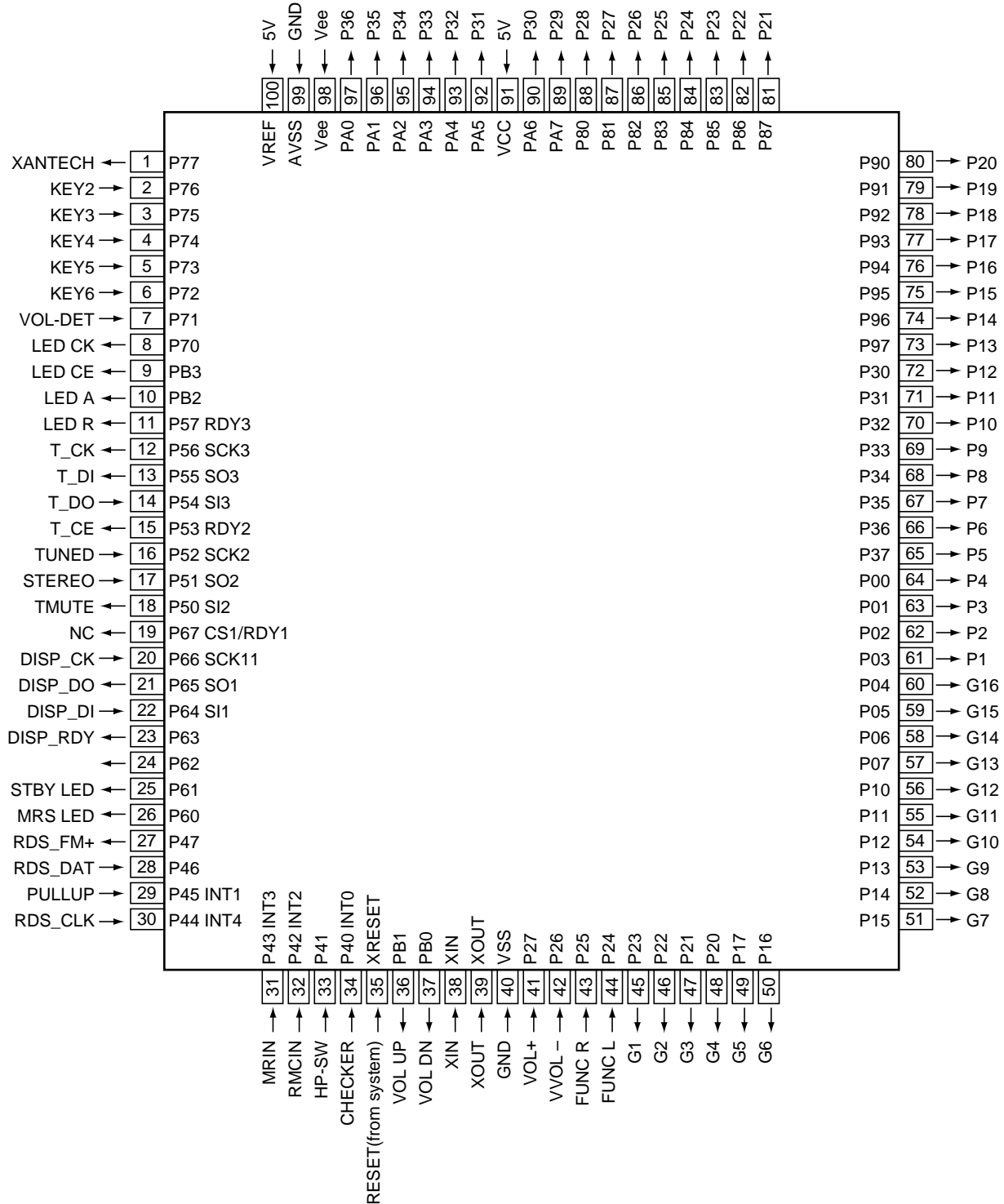
•List of IC

PD5507B, PD5506A

■ PD5507B (DISPLAY ASSY : IC7001)

• Display Control IC

• Pin Assignment (Top View)



● Pin Function

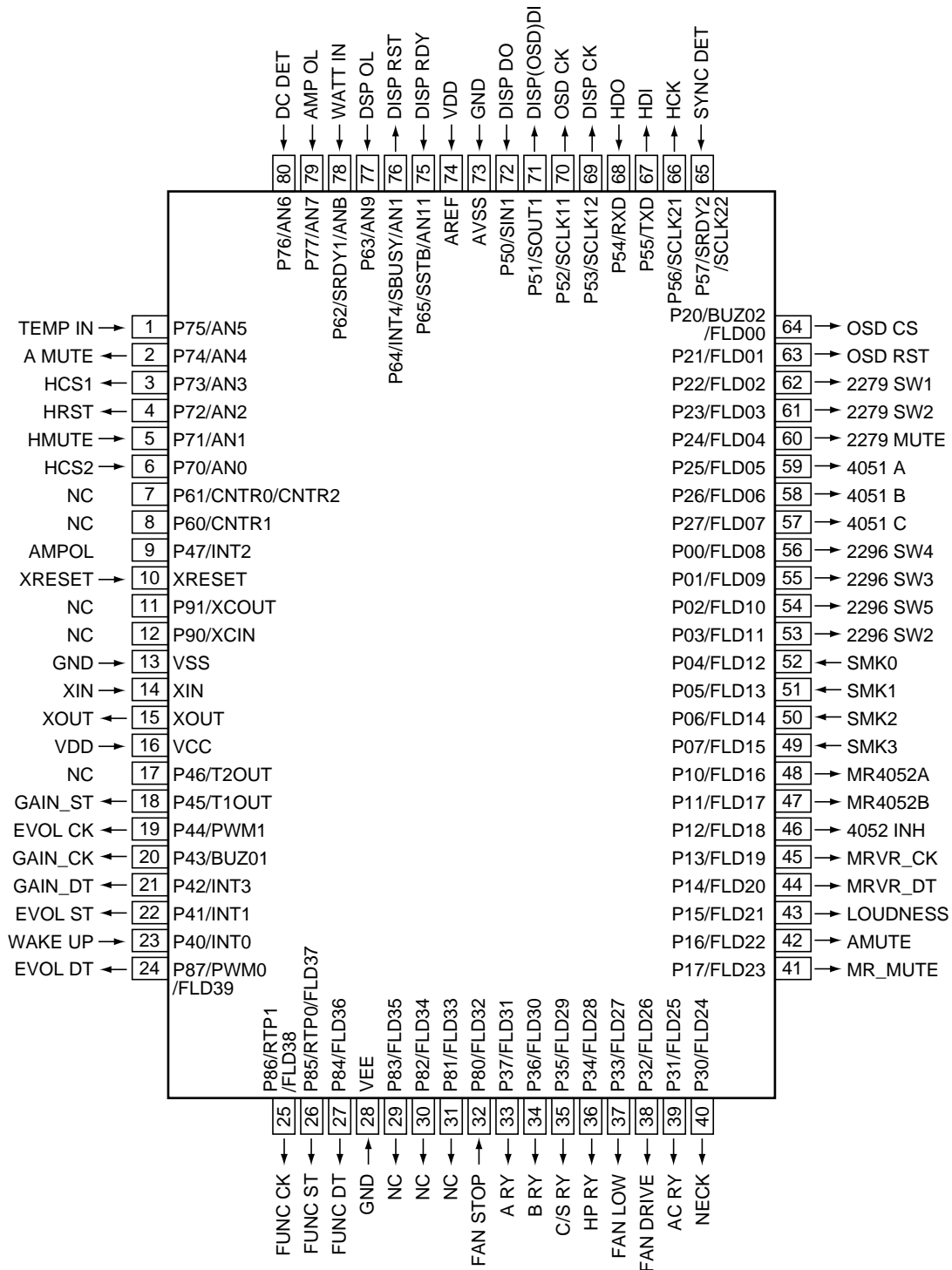
No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	XANTECH	O	XANTECH ON/OFF	51	G7	O	Grid output 7
2	KEY 2	I	Key scan input 2	52	G8	O	Grid output 8
3	KEY 3	I	Key scan input 3	53	G9	O	Grid output 9
4	KEY 4	I	Key scan input 4	54	G10	O	Grid output 10
5	KEY 5	I	Key scan input 5	55	G11	O	Grid output 11
6	KEY 6	I	Key scan input 6	56	G12	O	Grid output 12
7	VOL-DET	I	Detection of volume position	57	G13	O	Grid output 13
8	LED CKL	O	Clock for IC7071 M66311	58	G14	O	Grid output 14
9	LED OE	O	Output enable for IC7071 M66311	59	G15	O	Grid output 15
10	LED A	O	Data for IC7071 M66311	60	G16	O	Grid output 16
11	LED R	O	Reset for IC7071 M66311	61	S1	O	Segment output 1
12	T-CK	O	Clock for tuner module	62	S2	O	Segment output 2
13	T-DI	O	Data for tuner module	63	S3	O	Segment output 3
14	T-DO	I	Data from tuner module	64	S4	O	Segment output 4
15	T-CE	O	Chip enable for tuner module	65	S5	O	Segment output 5
16	TUNED	I	Tuned data from tuner module	66	S6	O	Segment output 6
17	STEREO	I	Stereo tuned data from tuner module	67	S7	O	Segment output 7
18	T-MUTE	O	Tuner mute ON/OFF	68	S8	O	Segment output 8
19	NC	O	Open	69	S9	O	Segment output 9
20	DISP CK	I	Clock from IC901 MAIN U-COM	70	S10	O	Segment output 10
21	DISP DO	O	Data for IC901 MAIN U-COM	71	S11	O	Segment output 11
22	DISP DI	I	Data from IC901 MAIN U-COM	72	S12	O	Segment output 12
23	DISP RDY	O	Data request for IC901 MAIN U-COM	73	S13	O	Segment output 13
24	NC	-	Open	74	S14	O	Segment output 14
25	STBY LED	O	Standby LED	75	S15	O	Segment output 15
26	MRS LED	O	Sub room LED (MR&S model), EON LED (RDS model)	76	S16	O	Segment output 16
27	RDS FM+	-	VDD for IC7401 BU1923 (RDS model only)	77	S17	O	Segment output 17
28	RDS DAT	O	Data for IC7401 BU1923 (RDS model only)	78	S18	O	Segment output 18
29	NC	I	(pull-up)	79	S19	O	Segment output 19
30	RDS CLK	I	Clock for IC7401 BU1923 (RDS model only)	80	S20	O	Segment output 20
31	MR IN	I	Sub room remote control (MR&S, MR model only)	81	S21	O	Segment output 21
32	RMC IN	I	Remote control	82	S22	O	Segment output 22
33	HP-SW	I	Headphone connect detect	83	S23	O	Segment output 23
34	NC	I	For unit check test mode detection	84	S24	O	Segment output 24
35	RESET	I	Reset	85	S25	O	Segment output 25
36	VOL/UP	O	Control for VOIL UP	86	S26	O	Segment output 26
37	VOL/DN	O	Control for VOL DOWN	87	S27	O	Segment output 27
38	XIN	-	Connect a 7.2MHz oscillator	88	S28	O	Segment output 28
39	XOUT	-		89	S29	O	Segment output 29
40	VSS	-	GND	90	S30	O	Segment output 30
41	VOL+	I	Rotary encoder signal +	91	VCC	-	Power supply +5V
42	VOL-	I	Rotary encoder signal -	92	S31	O	Segment output 31
43	FUNC/R	I	Rotary encoder signal R	93	S32	O	Segment output 32
44	FUNC/L	I	Rotary encoder signal L	94	S33	O	Segment output 33
45	G1	O	Grid output 1	95	S34	O	Segment output 34
46	G2	O	Grid output 2	96	S35	O	Segment output 35
47	G3	O	Grid output 3	97	S36	O	Segment output 36
48	G4	O	Grid output 4	98	VEE	-	Power supply 5V
49	G5	O	Grid output 5	99	AVSS	-	GND
50	G6	O	Grid output 6	100	VREF	-	Reference voltage 5V

VSX-908RDS, VSX-908RDS-G

PD5506A (MAIN CONTROL ASSY : IC901)

• Main Control IC

• Pin Assignment (Top View)



● Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	TEMP IN	I/O	O/open (KU,J,SD), I/Fan temperature A/D input (other)	41	MR MUTE	O	Audio mute ON/OFF for sub room (MR&S, MR model only)
2	A MUTE	O	Audio mute ON/OFF	42	A MUTE2	O	Audio preout mute ON/OFF
3	DSP CS1	O	Chip select for IC9501 DSP U-COM	43	LOUD	O	Loudness ON/OFF
4	DSP RST	O	Reset for IC9501 DSP U-COM	44	MR-V DT	O	Data for IC110 M62429FP control (MR&S model only)
5	DSP MUTE	I	Mute request from IC9501 DSP U-COM	45	MR-V CK	O	Clock for IC110 M62429FP control (MR&S model only)
6	DSP CS2	I	Chip select from IC9501 DSP U-COM	46	4052 INH	O	Inhibit for IC102 BU4052BCF control (MR&S model only)
7	NC	O	Open	47	4052 B	O	Control for IC102 BU4052BCF (MR&S model only)
8	NC	O	Open	48	4052 A		
9	AMPOL	I	Amp Overload detect	49	SIMUKE 3	I	SIMUKE (pull-up or down)
10	RESET	I	Reset	50	SIMUKE 2		
11	NC	O	Open	51	SIMUKE 1		
12	NC	O	Open	52	SIMUKE 0		
13	GND	-	GND	53	2296-2	O	Control for IC701, 801, 802 NJM2296M
14	XIN	I	Connect a 4.19MHz oscillator	54	2296-5		
15	XOUT	O		55	2296-3		
16	VDD	-	Power supply +5V	56	2296-4		
17	NC	O	Open	57	4051-C	O	Control for IC831 BU4051BCF
18	ST3	O	Strobe for IC107 TC9163F control	58	4051-B		
19	CK2	O	Clock for IC108 TC9482N control	59	4051-A		
20	CK3	O	Clock for IC107 TC9163F control	60	2279-M	O	Control for IC731 NJM2279M (MR&S model only)
21	DT3	O	Data for IC107 TC9163F control	61	2279-2		
22	ST2	O	Strobe for IC108 TC9482N control	62	2279-1		
23	W.UP	I	AC pulse input	63	OSD RST	O	Reset for IC752 LC74782M-9011
24	DT2	O	Data for IC108 TC9482N control	64	OSD CS	O	Chip select for IC752 LC74782M-9011
25	CK1	O	Clock for IC101 TC9274N and IC104 TC9163F control	65	SYNC DET	I	Detection of synchronizing signal
26	ST1	O	Strobe for IC101 TC9274N and IC104 TC9163F control	66	DSP HCK	O	Clock for IC9501 DSP U-COM
27	DT1	O	Data for IC101 TC9274N and IC104 TC9163F control	67	DSP HDI	O	Data for IC9501 DSP U-COM
28	GND	-	GND	68	DSP HDO	I	Data from IC9501 DSP U-COM
29	NC	O	Open	69	DISP CK	O	Clock for IC7001 DISP U-COM
30	NC	O	Open	70	OSD CK	O	Clock for IC752 LC74782M-9011
31	NC	O	Open	71	DISP DI	O	Data for IC7001 DISP U-COM
32	FAN STOP	I/O	O/Open (KU,J,SD), I/Fan stop detector (other)	72	DISP DO	I	Data from IC7001 DISP U-COM
33	A RY	O	SP A relay ON/OFF	73	GND	-	GND
34	B RY	O	SP B relay ON/OFF	74	VDD	-	Power supply +5V
35	C/S RY	O	SP C/S relay ON/OFF	75	DISP RDY	I	Data request from IC7001 DISP U-COM
36	HP RY	O	Headphone relay ON/OFF	76	DISP RST	O	Reset for IC7001 DISP U-COM
37	FAN LOW	O	Open (KU,J,SD), Fan low (other)	77	DSP OL	I	DSP overload detect, A/D input
38	FAN DRIVE	O	Open (KU,J,SD), Fan drive (other)	78	WATT IN	I/O	O/Open (KU,J,SD), I/Fan wattage input, A/D input (other)
39	AC RY	O	AC relay ON/OFF	79	AMP OL	I	Amp overload detect, A/D input
40	NECK	O	Neck ON/OFF (24,26,908,938 only)	80	DC DET	I	Detection of amp power error, A/D input

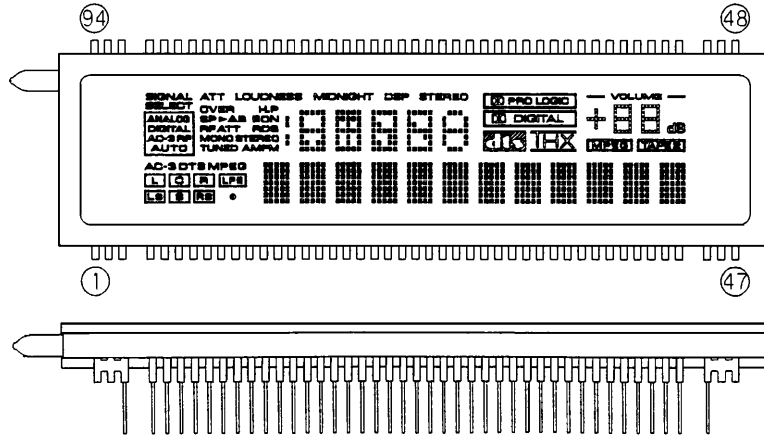
VSX-908RDS, VSX-908RDS-G

7.2.2 DISPLAY

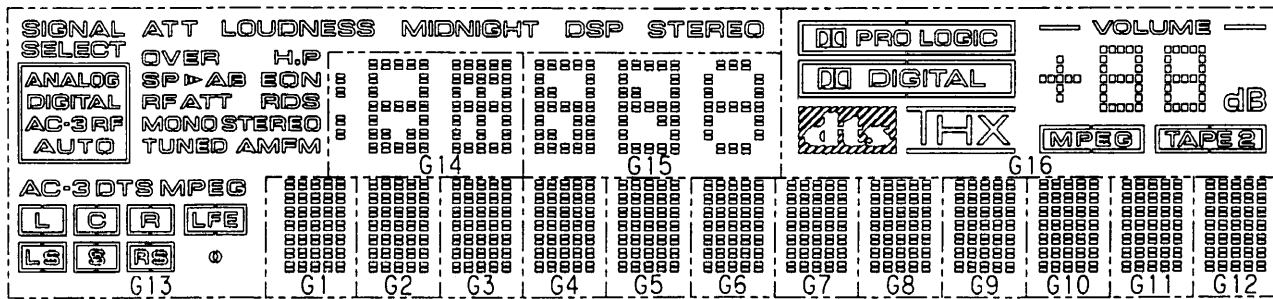
■ AAV7063 (DISPLAY ASSY :V7001)

- FL Indicator Tube

• Pin Assignment

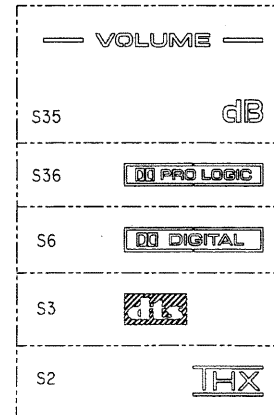
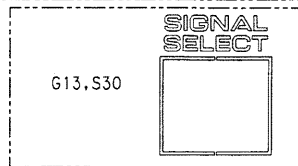


• Grid Assignment



G1~G12				G14				G15																					
S1	S2	S3	S4	S5	S32	S36	S36	S21	S35	S34	S34	S33	S36	S35	S35	S35	S34	S26	S33	S33	S33	S1	S21	S21	S21				
S6	S7	S8	S9	S10	S29	S31	S30	S26	S27	S28	S25	S32	S31	S29	S28	S13	S29	S27	S28	S13	S13	S12	S12						
S11	S12	S13	S14	S15	S29	S31	S30	S26	S24	S25	S32	S30	S31	S29	S27	S29	S27	S28	S13	S13	S12	S12							
S16	S17	S18	S19	S20	S32	S23	S22	S23	S21	S20	S19	S18	S19	S17	S20	S19	S24	S19	S18	S26	S17	S23	S17	S16	S22	S25	S25	S25	S22
S21	S22	S23	S24	S25	S29	S16	S15	S14	S28	S13	S15	S30	S14	S7	S27	S8	S12	S27	S8	S12	S12	S13	S13						
S26	S27	S28	S29	S30	S29	S12	S21	S21	S11	S10	S28	S9	S11	S10	S10	S9	S7	S8	S12	S12	S13	S13							
S31	S32	S33	S34	S35	S8	S7	S6	S7	S5	S4	S3	S2	S3	S1	S6	S4	S5	S4	S3	S26	S2	S2	S2	S1	S21	S21	S21		

G16									
S29	S30	S30	S30	S31	S32	S33	S33	S33	S34
S18	S25	S26	S27	S28	S25	S26	S27	S28	
S18	S25	S26	S27	S28	S17	S17	S17	S17	
S18	S13	S14	S15	S16	S19	S20	S20	S20	S21
S18	S13	S14	S15	S16	S22	S23	S23	S23	S24
S7	S8	S8	S8	S9	S10	S11	S11	S11	S12



● Anode and Grid Connection

	G1~G12	G13	G14	G15	G16		G1~G12	G13	G14	G15	G16		G1~G12	G13	G14	G15	G16
S1	S1		S1	S1		S13	S13	DTS	S13	S13	S13	S25	S25	H.P	S25	S25	S25
S2	S2	FM	S2	S2	S2	S14	S14	AC-3 (DTS)	S14	S14	S14	S26	S26	AUTO	S26	S26	S26
S3	S3	AM	S3	S3	S3	S15	S15	RFATT	S15	S15	S15	S27	S27	AC-3RF	S27	S27	S27
S4	S4	MPEG	S4	S4	TAPE2	S16	S16	EON	S16	S16	S16	S28	S28	DIGITAL	S28	S28	S28
S5	S5	LFE	S5	S5	MPEG	S17	S17	(▷)A)B	S17	S17	S17	S29	S29	ANALOG	S29	S29	S29
S6	S6	STEREO	S6	S6	S6	S18	S18	(▷)A(B)	S18	S18	S18	S30	S30	S30	S30	S30	S30
S7	S7	TUNED	S7	S7	S7	S19	S19	Ⓢ	S19	S19	S19	S31	S31	ATT	S31	S31	S31
S8	S8	MONO	S8	S8	S8	S20	S20	LS	S20	S20	S20	S32	S32	LOUDNESS	S32	S32	S32
S9	S9	R	S9	S9	S9	S21	S21	S	S21	S21	S21	S33	S33	MIDNIGHT	S33	S33	S33
S10	S10	C	S10	S10	S10	S22	S22	RS	S22	S22	S22	S34	S34	DSP	S34	S34	S34
S11	S11	L	S11	S11	S11	S23	S23	SP▷	S23	S23	S23	S35	S35	(DSP) STEREO	S35	S35	S35
S12	S12	RDS	S12	S12	S12	S24	S24	OVER	S24	S24	S24	S36			S36	S36	S36

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assignment	NL	NL	F1	NP	D	IC	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Assignment	NL	NL	S36	S35	S34	S33	S32	S31	S30	S29	NL	NL	NL	S28	S27	S26	S25	S24	H	NP	F2	NL	NL

Pin No.	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
Assignment	NL	NL	NL	NP	S23	S22	S21	S20	S19	S18	S17	S16	S15	S14	S13	S12	S11	S10	S9	S8	S7	S6	S5	S4

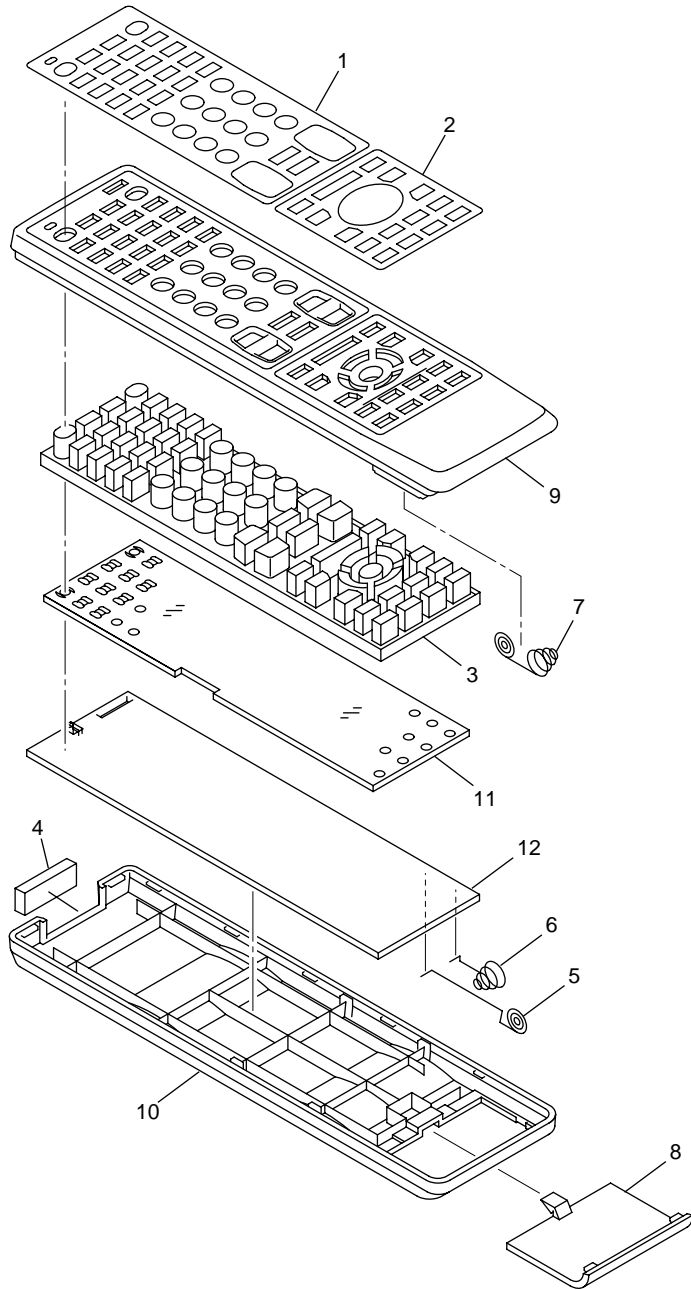
Pin No.	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
Assignment	S3	S2	S1	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	NP	NL	NL	NL

F1, F2 : Filament G1 to G16 : Grid S1 to S36 : Anode D : External connect to F1 NP: No Pin NL : Lead
 H : Power supply grid usually (ec level = Apply Typ 35.0 VDC) IC : Internal connection

7.3 REMOTE CONTROL UNIT [AXD7214 (CU-VSX162) and AXD7236 (CU-VSX165)]

7.3.1 EXPLODED VIEWS AND PARTS LIST

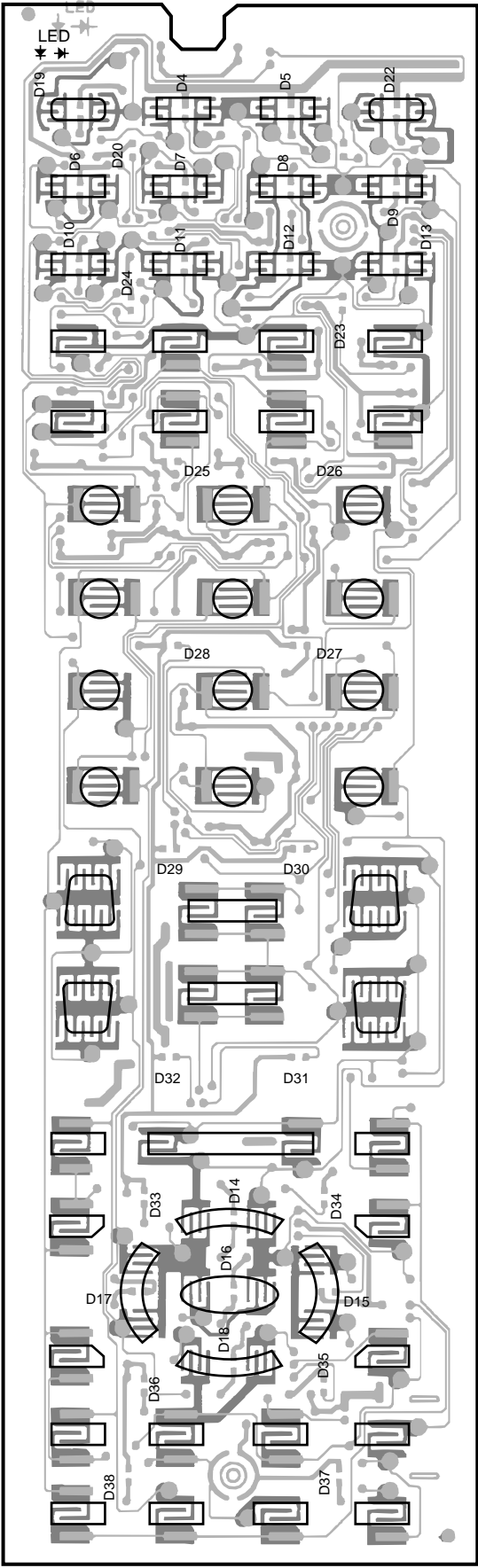
- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to \blacktriangledown mark on the product are used for disassembly.



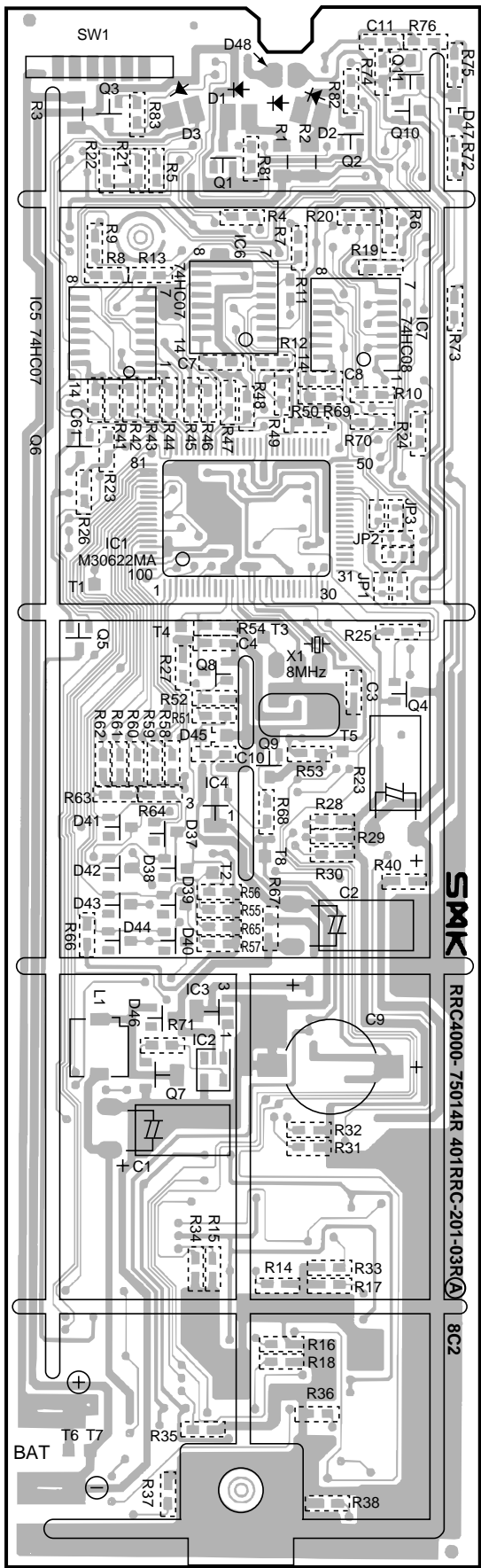
● PARTS LIST

Mark	No.	Description	Part No.
	1	Name Plate A (AXD7214)	AZA7356
	1	Name Plate A (AXD7236)	AZA7353
	2	Name Plate B (AXD7214)	AZA7376
	2	Name Plate B (AXD7236)	AZA7377
	3	Rubber Sheet	AZA7355
	4	Filter	AZA7340
	5	Terminal A (+)	AZB7141
	6	Terminal B (-)	AZB7142
	7	Spring	AZB7143
	8	Battery Cover (AXD7214)	AZN2401
	8	Battery Cover (AXD7236)	AZN7791
	9	Case (A) (AXD7214)	AZN7780
	9	Case (A) (AXD7236)	AZN7792
	10	Case (B) (AXD7214)	AZN7781
	10	Case (B) (AXD7236)	AZN7793
NSP	11	Illumi Plate	AZN7782
	12	PCB	AZW7254

7.3.2 PCB DIAGRAM



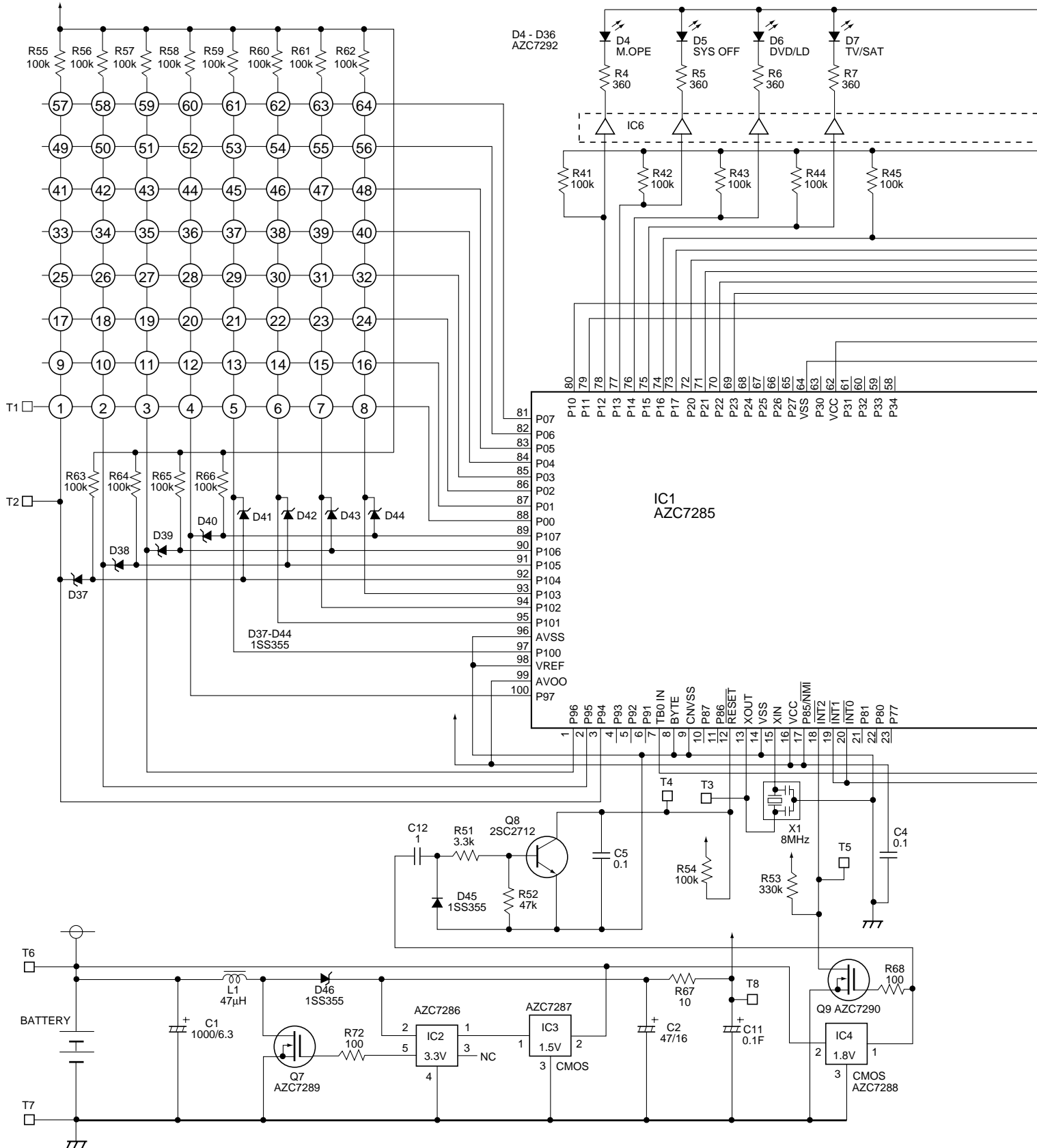
SIDE A



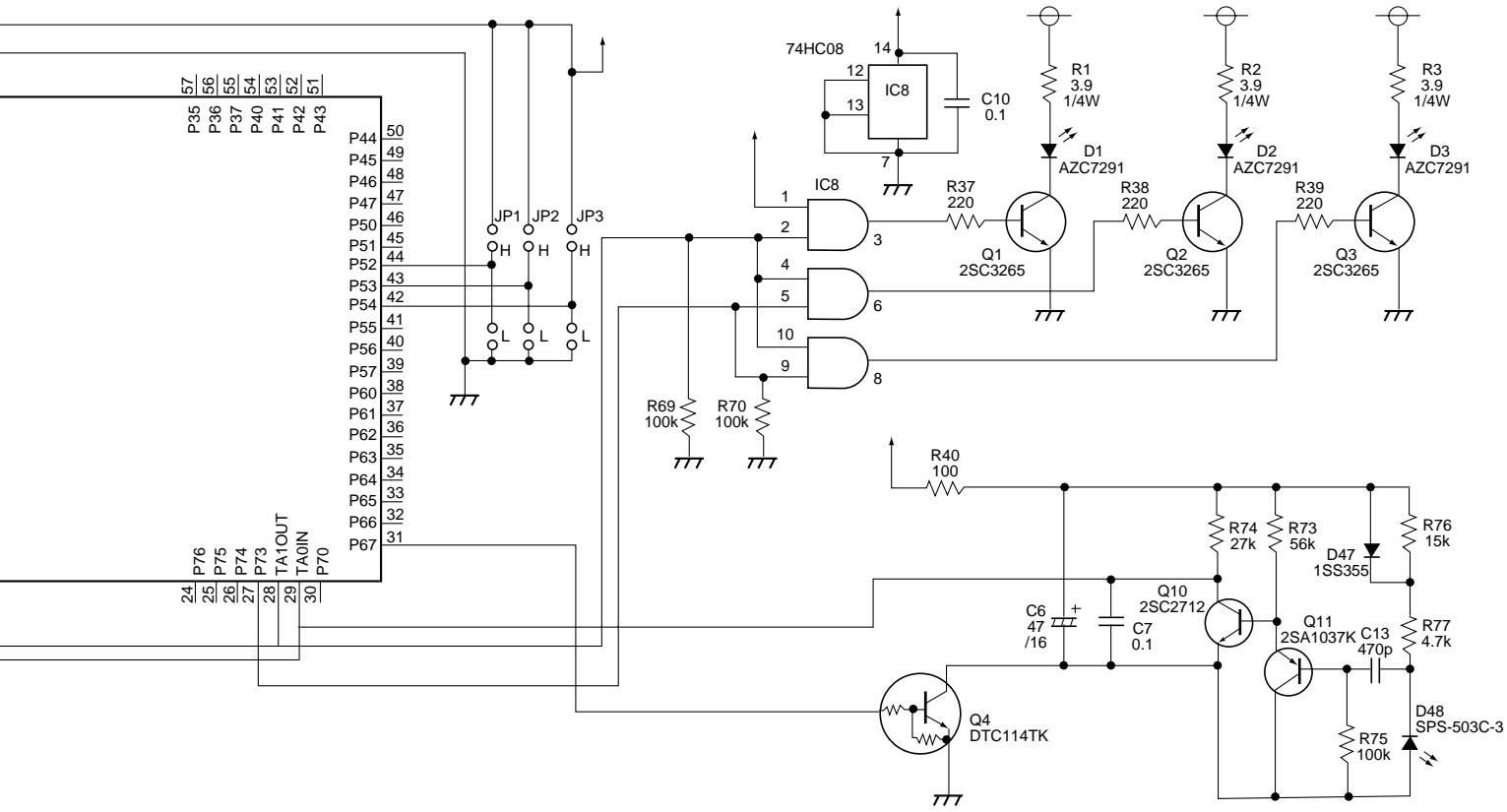
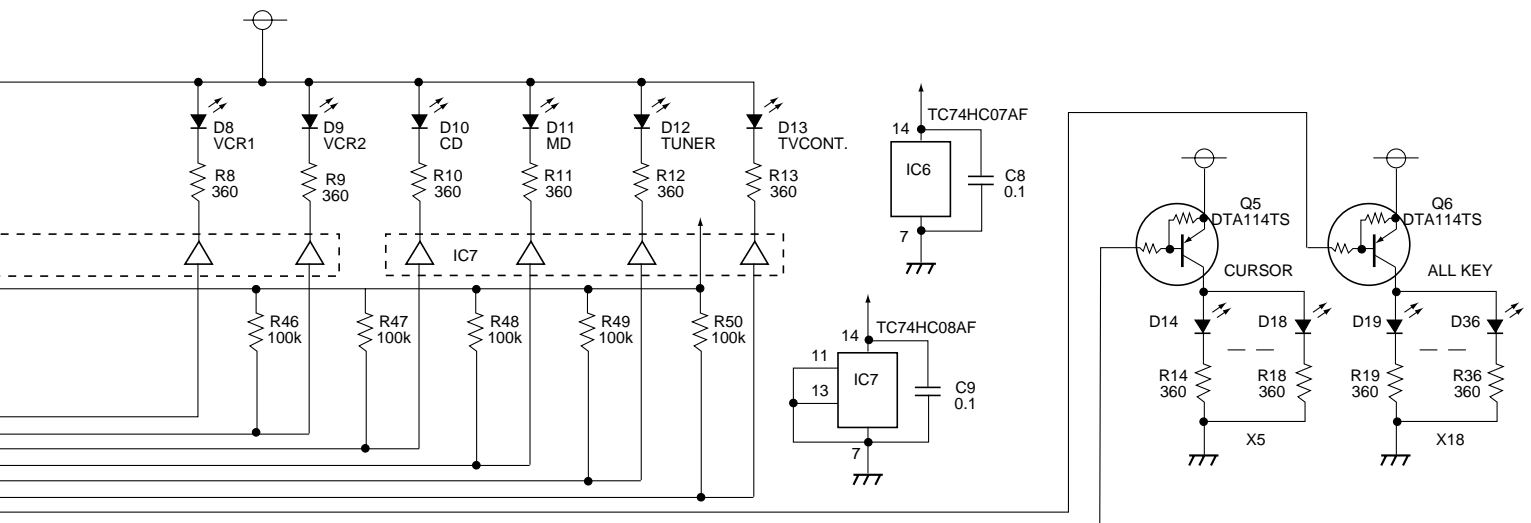
SIDE B

A
B
C
D

7.3.3 SCHEMATIC DIAGRAM



VSX-908RDS, VSX-908RDS-G



A

B

C

D

7.3.4 PCB PARTS LIST

NOTES: ● 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.

● 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 5 6 1 J
 47k Ω \rightarrow 47×10^3 \rightarrow 473 RD1/4PU 4 7 3 J
 0.5 Ω \rightarrow R50 RN2H R 5 0 K
 1 Ω \rightarrow 1R0 RS1P 1 R 0 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 5 6 2 1 F

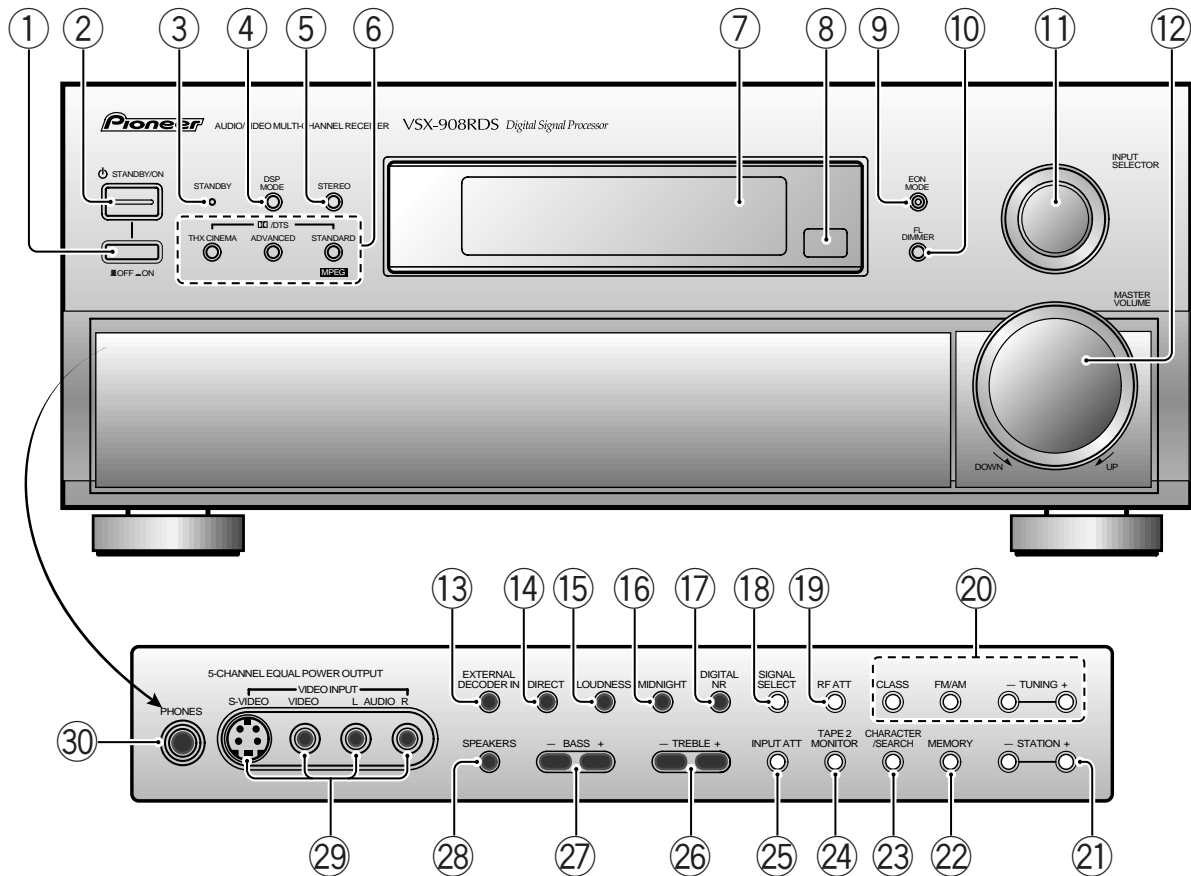
Mark	No.	Description	Part No.
	IC1	U-COM(M30662)	AZC7285
	IC2	VOLTAGE REG. 3.3V	AZC7286
	IC3	VOLTAGE DETECTOR 1.5	AZC7287
	IC4	VOLTAGE DETECTOR 1.8	AZC7288
	IC5, IC6		TC74HC07AF
	IC7		TC74HC08AF
	Q7	FET(2SK1959)	AZC7289
	Q9	FET(2SK2009)	AZC7290
	Q5, Q6		DTA114TS
	Q4		DTC114TK
	Q11		2SA1037K
	Q8, Q10		2SC2712
	Q1-Q3		2SC3265
	D1-D3	INFRARED LED	AZC7291
	D4-D36	ORANGE LED	AZC7292
	D48	PIN PHOTO DIODE	SPS-503C-3
	D37-D47		1SS355

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Section

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.



① Main power (■ ON/ ▬ OFF) button

If the button is OFF (▬), the power of the receiver is shut off and the STANDBY/ON button (②) on the receiver or the remote control do not function. Pressing the button again will turn the receiver ON (■) and the receiver enters the standby mode. In the standby mode, you can turn on the receiver using the STANDBY/ON button (②) on the receiver or the remote control.

② ⏻ STANDBY/ON button

Press to switch the receiver ON or into the STANDBY mode.

③ STANDBY indicator

Lights when the receiver is in the STANDBY mode. (Please note that this receiver consumes a small amount of power (1.0 W) during the standby mode.)

④ DSP MODE button

Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

⑤ STEREO button

Press to select the STEREO sound mode. In this mode, sound comes from the front (left and right) speakers only.

⑥ DDD/DTS buttons

THX CINEMA : Press to select the HOME THX CINEMA mode when listening to Dolby Digital, Dolby Pro Logic, DTS, or a variety of other sources.

ADVANCED : Press to select one of the four Advanced Theater modes.

STANDARD (MPEG) : Press repeatedly to select the STANDARD or MPEG mode.

⑦ Display

⑧ Remote sensor

Point the remote control toward the remote sensor to operate the receiver.

⑨ EON MODE button/indicator

Press to select the EON mode in the FM mode. The indicator lights when the EON mode is selected.

⑩ FL DIMMER button

Use to adjust the brightness of the main display.

VSX-908RDS, VSX-908RDS-G

⑪ INPUT SELECTOR dial

Turn to select a source component. The source indicators on the display shows the current component:

DVD/LD : DVD player or Laser Disc player.

TV/SAT : TV tuner or satellite tuner.

CD : Compact disc player.

MD/TAPE 1 : Tape deck or Mini disc recorder connected to MD/TAPE 1/CD-R inputs/outputs.

TUNER : The built-in tuner.

PHONO : Turntable.

VIDEO : Video camera (etc.) connected to the VIDEO INPUT on the front panel.

VCR 1 : Video cassette recorder connected to VCR 1 inputs.

VCR 2 : Video cassette recorder or other component connected to VCR 2 inputs.

⑫ MASTER VOLUME

Adjusts the overall receiver volume.

⑬ EXTERNAL DECODER IN button

Use to hook up an external component that can decode other types of signals and input them into the receiver.

⑭ DIRECT button

Switches direct playback on or off. Use to bypass the tone controls and channel level for the most accurate reproduction of a program source. It will automatically put the receiver in the STEREO mode for that function.

⑮ LOUDNESS button

Switches the LOUDNESS mode on or off.

⑯ MIDNIGHT button

Switches the MIDNIGHT listening mode on or off.

⑰ DIGITAL NR button

Switches the DIGITAL NR on or off (STEREO mode only).

⑱ SIGNAL SELECT button

Use to select the signal from the digital components. Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG : To select an analog signal.

DIGITAL : To select an optical or coaxial digital signal.

AC-3 RF : To select an AC-3 RF signal.

AUTO : This is the default. If there are both analog and digital input signals, the receiver automatically selects the best possible signal.

⑲ RF ATT button

Press to turn the RF attenuator on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, set the RF attenuator to off. This button does not affect AM reception.

⑳ Tuner control buttons

CLASS : Press repeatedly to switch the preset station classes.

FM/AM : Press to select the AM or FM band.

TUNING -/+ : Use to manually tune into radio stations.

㉑ STATION -/+ buttons

Use to choose programmed radio stations.

㉒ MEMORY button

Press to start the memorization of a preset station.

㉓ CHARACTER/SEARCH button

Press to select the character input mode, or initiate an RDS PTY search.

㉔ TAPE 2 MONITOR button

Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it is being made.

㉕ INPUT ATT button

Use to lower the input level of an analog signal that is too powerful, thus causing the receiver to distort (the OVER indicator will light furiously).

㉖ TREBLE (-/+) buttons

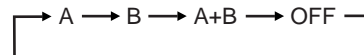
Use to adjust the high frequencies.

㉗ BASS (-/+) buttons

Use to adjust low frequencies.

㉘ SPEAKERS (A/B) buttons

A is the primary setting. It plays all speakers hooked up to the A system. A and B setting only plays the front speakers of both the A and B systems and the sub-woofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and Multi channel sources will be down-mixed to these two speakers.



㉙ VIDEO INPUT jacks

S-VIDEO : Video input for connecting a video camera (etc.), that has an S-Video out.

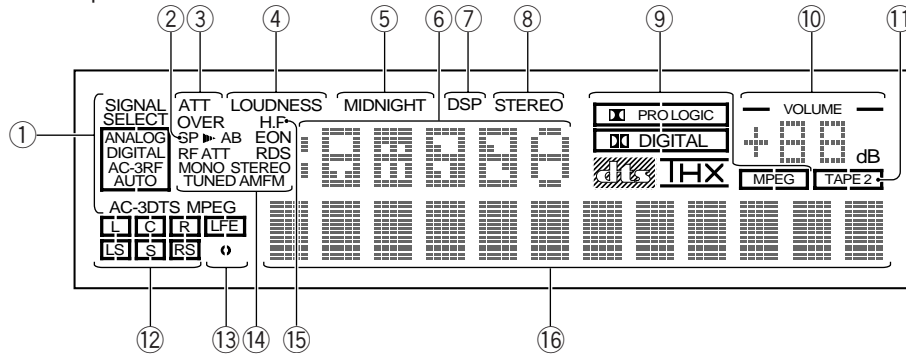
VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard video/audio outputs.

㉚ PHONES jack

Connect headphones for private listening (no sound will be heard through the speakers).

■ Display

All the display information is explained here.



① SIGNAL SELECT indicators

Light to indicate the type of input signal assigned for the current component (see "Front Panel", ⑱, SIGNAL SELECT).

ANALOG : Lights when an analog signal is selected.

DIGITAL : Lights when a digital audio signal is selected (DVD/LD, CD, MD/TAPE1, TV/SAT, VCR 1, VCR 2).

AC-3RF: Lights when an AC-3 RF signal is selected (DVD/LD, TV/SAT, VCR 1, VCR 2).

AUTO: Lights when the receiver is set to select the input signal automatically (DVD/LD, CD, MD/TAPE 1, TV/SAT, VCR 1, VCR 2).

AC-3 : Lights when a source with Dolby Digital signals is played.

DTS : Lights when a source with DTS audio signals is played.

MPEG: Blinks when the MPEG mode is selected, and lights when a source with MPEG audio signals is played.

② Speaker indicators

Light to indicate the current speaker system (see "Front Panel", ⑳, SPEAKERS (A/B)).

SP > A : Lights when speaker system A is selected.

SP > B : Lights when speaker system B is selected.

SP > AB : Lights when speaker systems A and B are both selected.

③ Analog level indicators

OVER : If "ANALOG" is selected in SIGNAL SELECT, this indicator lights to show that an excessively strong signal is being processed. When this occurs, press INPUT ATT on the front panel to attenuate (lower) the signal. Also, when "DIGITAL" is selected in SIGNAL SELECT, this indicator lights to show that a source containing an excessive amount of information is being processed.

ATT : Lights when INPUT ATT is used to reduce the level of the input signal (available in ANALOG mode only).

④ LOUDNESS indicator

Lights when the LOUDNESS mode is on.

⑤ MIDNIGHT indicator

Lights when the MIDNIGHT listening mode is on.

⑥ Radio Frequency/Source indicator

Displays the source or the frequency of the current radio station.

⑦ DSP indicator

Lights when a DSP or Advanced Theater mode is selected.

⑧ STEREO indicator

Lights when a Stereo mode is selected.

⑨ Surround/dts (MPEG) mode indicators

DIGITAL : When the **DIGITAL** Surround/dts mode on the receiver is on, this indicator lights to indicate playback of a Dolby Digital signal. However, **PRO LOGIC** lights during 2 channel playback of Dolby Digital.

PRO LOGIC : When the **DIGITAL** Surround/dts mode on the receiver is on, this indicator lights during 2 channel playback. The indicator does not light when both the A + B speaker systems, just the B speaker system, or the headphones are selected for playback.

dts : Lights when DTS signals are input.

THX: Lights when the HOME THX CINEMA mode is selected.

MPEG: Lights when the MPEG mode is selected. (**DIGITAL** Surround/dts (MPEG) mode is ON)

⑩ MASTER VOLUME indicator

Displays current level of master volume.

⑪ TAPE 2 indicator

Lights when the TAPE 2 monitor is on.

⑫ Program format indicator

When a Dolby Digital or DTS signal is input, the following indicators light to show the channels being played back.

L : Left front^{*1*2}, **C** : Center^{*1}, **R** : Right front^{*1*2},

LS : Left surround^{*1}, **S** : Surround (mono)^{*2},

RS : Right surround^{*1}

*1: Indicates 5.1ch Dolby Digital playback.

*2: Indicates Dolby Pro Logic playback.

⑬ LFE indicator

LFE (Low Frequency Effects) indicator lights to indicate that the program source contains an LFE channel. The indicator under the LFE lights during actual playback of the LFE signals (LFE signals are not present in all parts of the soundtrack).

⑭ Tuner/ FM/AM indicators

MONO : Lights when the tuner is set to receive FM broadcasts with the MONO mode selected.

STEREO : Lights when a FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

AM/FM : Light to indicate the current band (FM or AM).

EON: Lights when an RDS stations transmitting the EON data service is being received.

RF ATT: Lights when the RF attenuator is on.

RDS: Lights when RDS broadcast is being received.

⑮ H.P (headphones)

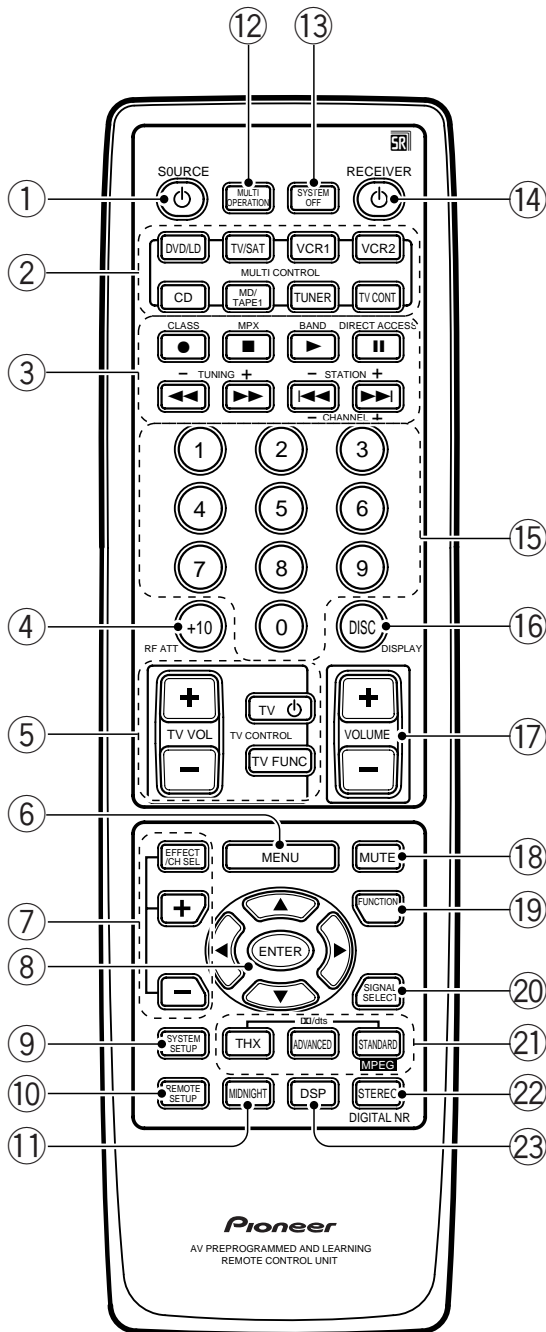
Lights when headphones are connected to the PHONES jack (speakers A and B turn off automatically).

⑯ Character display

Displays sound modes, general information, etc.

Remote Control Unit

These pages describe the buttons on the remote control used to operate the receiver.



① SOURCE \odot button

Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

② MULTI CONTROL buttons

Use these buttons to select a source and the corresponding remote operation mode. For example, pressing the TUNER button selects the built-in tuner and sets the remote control in the tuner operation mode.

③ Component control buttons

[Tuner control]

CLASS: Press repeatedly to switch the preset station classes.

MPX: Press to switch between auto stereo and MONO reception of FM broadcasts.

BAND: Press to select AM or FM band.

DIRECT ACCESS: Press to activate the direct access tuning mode.

TUNING +/-: Use to manually tune into radio stations.

STATION +/-: Use to choose programmed radio stations.

④ RF ATT button

Press to turn the RF attenuator on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, set the RF attenuator to off. This button does not affect AM reception.

⑤ TV CONTROL buttons

The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV \odot : Press to turn the power of the TV on/off.

TV FUNC: Press to select the TV for remote control operation.

TV VOL +/-: Press to control the volume of the TV.

⑥ MENU button

Use to display various menus on the TV screen.

⑦ EFFECT/CH SEL +/- buttons

EFFECT: Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode, the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP or ADVANCED Theater mode (by pressing the ② DSP or Advanced button until you get the mode) and then increase or decrease the amount of effect.

CH SEL: You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.

+/-: Use these buttons to select the amount of effect in a sound mode or to adjust the channel level when making surround sound settings.

⑧ ▲/▼/◀/▶/ENTER buttons

Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other setup features. Specific use of these buttons is described in conjunction with the operations they perform. For more information see each section.

⑨ SYSTEM SETUP button

Use to set up the speaker and sound systems.

⑩ REMOTE SETUP button.

Use to customize the remote control functions and the remote control itself.

Press the SIGNAL SELECT and REMOTE SETUP buttons simultaneously to switch from the SIGNAL SELECT operation to EXTERNAL DECODER operation. Then press the button to get the EXTERNAL DECODER function. To get back to the SIGNAL SELECT control, press the REMOTE SETUP button and the SIGNAL SELECT button simultaneously once again.

⑪ MIDNIGHT button

Switches the MIDNIGHT listening mode on or off.

⑫ MULTI OPERATION button

Use this button to start the MULTI OPERATION mode.

⑬ SYSTEM OFF button

This button turns off components in two ways. First, when pressed, it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will also be turned off.

For example : If you programmed power-on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑭ RECEIVER ⏻ button

Press to turn power of the receiver on or to STANDBY (off).

⑮ Number buttons

These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD player and tuner operations.

⑯ DISC/DISPLAY button

Press to switch the RDS data while listening to an FM station.

Each press changes the display mode in the order of RT, PS, PTY, and frequency.

This button can perform a variety of different functions depending on the remote operation mode.

⑰ VOLUME button

Use to raise or lower the volume of the receiver.

⑱ MUTE button

Press to mute or restore the volume.

⑲ FUNCTION button

Press to select a source. The button will cycle through all the possible sources.

⑳ SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG : To select an analog signal.

DIGITAL : To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2).

AC-3 RF: To select an AC-3 RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).

AUTO: This is the default. If there are both analog and digital input signals, the receiver automatically selects the best possible signal. Press the SIGNAL SELECT and REMOTE SETUP buttons simultaneously to switch from the SIGNAL SELECT operation to EXTERNAL DECODER operation. Then press the button to get the EXTERNAL DECODER function. To get back to the SIGNAL SELECT control, press the REMOTE SETUP button and the SIGNAL SELECT button simultaneously once again.

㉑ DD/dts buttons

Press these buttons to put the receiver in the selected sound mode.

㉒ STEREO/DIGITAL NR button

STEREO : Press this button to put the receiver into the stereo mode when it's in a different sound mode. For more information on the sound modes.

DIGITAL NR : Switches the DIGITAL NR on or off .

㉓ DSP button

Press repeatedly to select a DSP sound mode.

■ Audio Components Connections

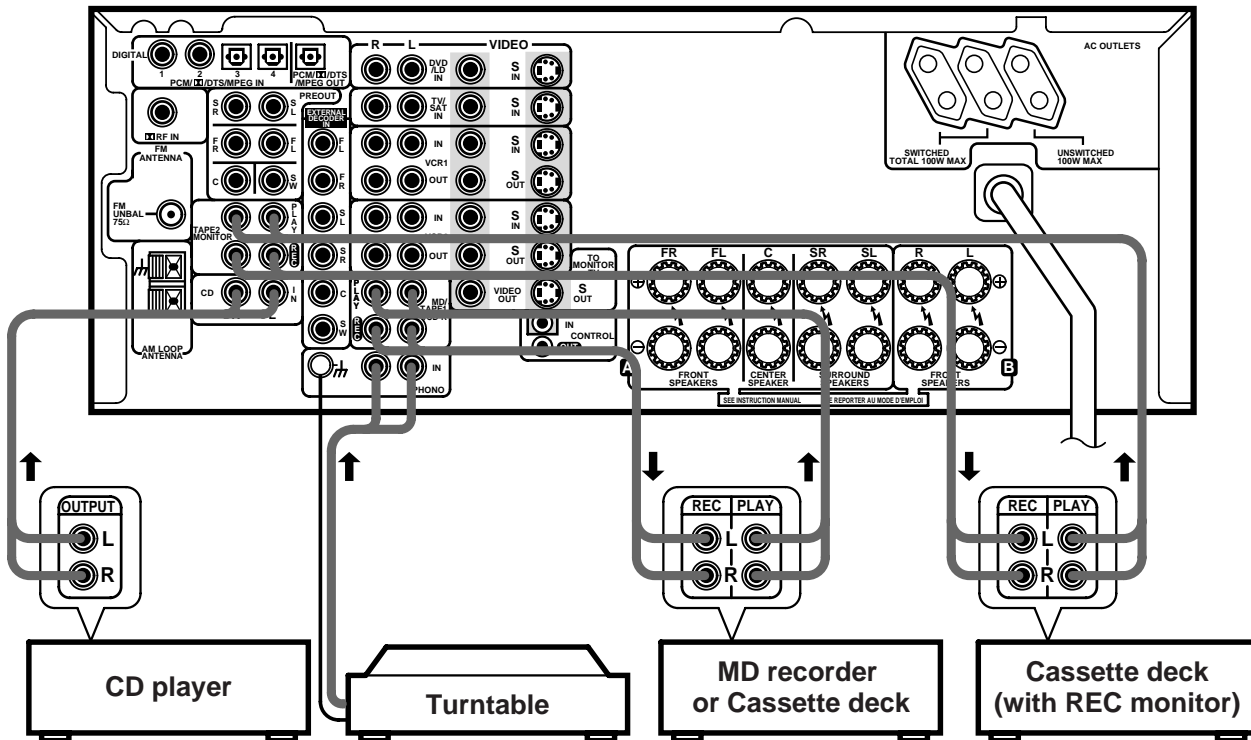
Before making or changing the connections, switch off the power and disconnect the power cord from the AC outlet.

To begin set up connect your audio components to the jacks as shown below. These are all analog connections and your analog audio components (turntable, cassette deck) use these jacks. Remember that for components you want to record with you need to hook up four plugs (a set of stereo ins and a set of stereo outs), but for components that only play (like a turntable) you only need to hook up one set of stereo plugs (two plugs). To use DTS surround sound features you must hook up your digital components to the digital inputs but it is also a good idea to hook up your digital components to analog audio jacks. If you want to record to/from digital components (like an MD) to/from analog components you must hook up your digital equipment with these analog connections.



The arrows indicate the direction of the audio signal.

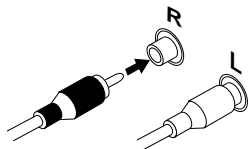
The illustration is not applicable to the UK model.



If your turntable has a ground wire, connect it to the ⚡ (signal ground) terminal.

■ Audio cords

Use audio cords (not supplied) to connect the audio components.



Connect red plugs to R (right) and white plugs to L (left). Be sure to insert completely.

Cassette deck placement

Depending on where the cassette deck is placed, noise may occur during playback of your cassette deck, which is caused by leakage flux from the transformer in the receiver. If you experience noise, move the cassette deck farther away from the receiver.

8.2 SPECIFICATIONS

Amplifier Section

Continuous Power Output (STEREO MODE)	
FRONT	110 W + 110 W (DIN 1 kHz, THD 1 %, 8Ω)
Continuous Power Output (SURROUND MODE)	
FRONT	110 W + 110 W (DIN 1 kHz, THD 1 %, 8Ω)
CENTER	110 W (DIN 1 kHz, THD 1 %, 8Ω)
SURROUND	110 W + 110 W
.....	(DIN 1 kHz, THD 1 %, 8Ω)
Rated Power Output	100 W + 100 W
.....	(20-20 kHz, THD 0.09 %, 8Ω)
• Above specifications are applicable when the power supply is 230V.	
Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE 1/CD-R, TAPE 2	335 mV/47 kΩ
Frequency Response	
PHONO MM	80 dB
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE 1/CD-R, TAPE 2	5 Hz to 100,000 Hz ⁺⁰ ₋₃ dB
Output (Level/Impedance)	
VCR 1 REC, VCR 2 REC, MD/TAPE 1/CD-R REC, TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+3 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	80 dB
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE 1/CD-R, TAPE 2	101 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	80 dB
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE 1/CD-R, TAPE 2	83 dB

VIDEO Section

Input (Sensitivity/Impedance)	
VCR 1, VCR 2, DVD/LD, TV/SAT, VIDEO	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1, VCR 2, MONITOR	1 Vp-p/75 Ω
Frequency Response	
VCR 1, VCR 2, MONITOR	5 Hz to 10 MHz ⁺⁰ ₋₃ dB
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 15.2 dBf, IHF (1.6 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf
.....	Stereo: 41.2 dBf
Sensitivity (DIN)	Mono: 1.1 μV (S/N 26 dB)
.....	Stereo: 50 μV (S/N 46 dB)
Signal-to-Noise Ratio	Mono: 76 dB (at 85 dBf)
.....	Stereo: 72 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN)	Mono: 62 dB
.....	Stereo: 58 dB
Distortion	Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity	70 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1dB)
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	531 kHz to 1.602 kHz
Sensitivity (IHF, Loop antenna)	350 μV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	
UK model	AC 230 V, 50/60 Hz
European model	AC 220 - 230 V, 50/60 Hz
Power Consumption	400 W
Power Consumption in Standby mode	1.0 W
AC Outlets (except for the UK model)	
SWITCHED (x2)	Total 100 W MAX.
UNSWITCHED	100 W MAX.
Dimensions	420 (W) × 173 (H) × 470 (D) mm
Weight (without package)	14.9 kg

Furnished Parts

FM Antenna	1
AM Loop Antenna	1
Dry Cell Batteries (SIZE "AA" (IEC LR6))	2
Remote Control Unit	1
Operating Instructions	1

NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

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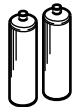
■ Accessories



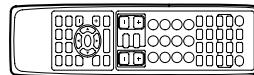
**FM wire antenna
(ADH7010)**



**AM loop antenna
(ATB7009)**



“AA” IEC LR6 batteries x 2



**Remote control unit
(CU-VSX162 : AXD7214)
VSX-908RDS
(CU-VSX165 : AXD7236)
VSX-908RDS-G**