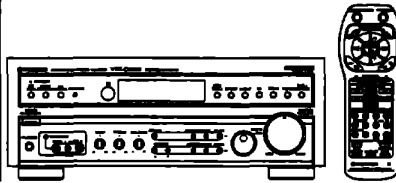


Service Manual

PIONEER
The Art of Entertainment



ORDER NO.
RRV1713

AUDIO/VIDEO STEREO RECEIVER

VSX-D506S

VSX-456

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

Type	Model		Power Requirement	Remarks
	VSX-D506S	VSX-456		
KUXJ I	○	○	AC120V	
KCXJ I	○	○	AC120V	

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
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PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
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T-SZE JAN. 1997 Printed in Japan

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

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.



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.

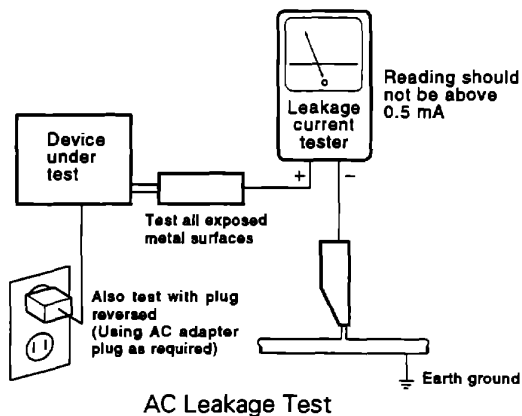
(FOR USA MODEL ONLY)

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 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



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  on the schematics and on the parts list in this Service Manual.

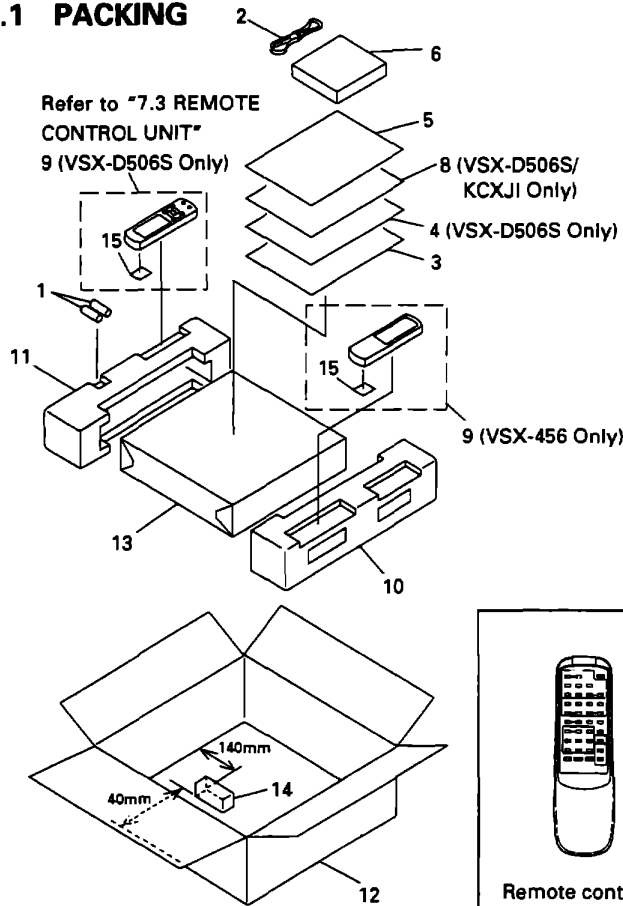
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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

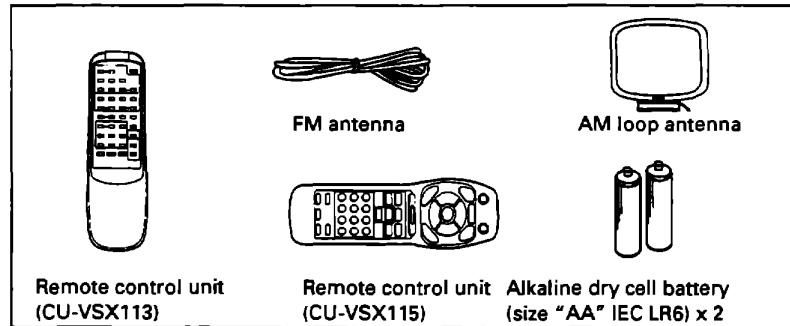
- NOTES:**
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws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

2.1 PACKING



(1) PARTS LIST

Mark	No.	Description	Parts No.
NSP	1	Dry Cell Battery	See Contrast table (2)
	2	FM Antenna	ADH7004
	3	Operating Instructions	See Contrast table (2)
	4	Sub Instruction Manual (English)	See Contrast table (2)
NSP	5	Warranty Card	See Contrast table (2)
	6	AM Loop Antenna	ATB7009
	7	
	8	Operating Instructions (French)	See Contrast table (2)
	9	Remote Control Unit	See Contrast table (2)
	10	Front Pad	AHA7137
	11	Rear Pad	AHA7140
	12	Packing Case	See Contrast table (2)
	13	Packing Sheet	AHG7010
	14	Sub Pad B	AHB7027
	15	Battery Cover	See Contrast table (2)



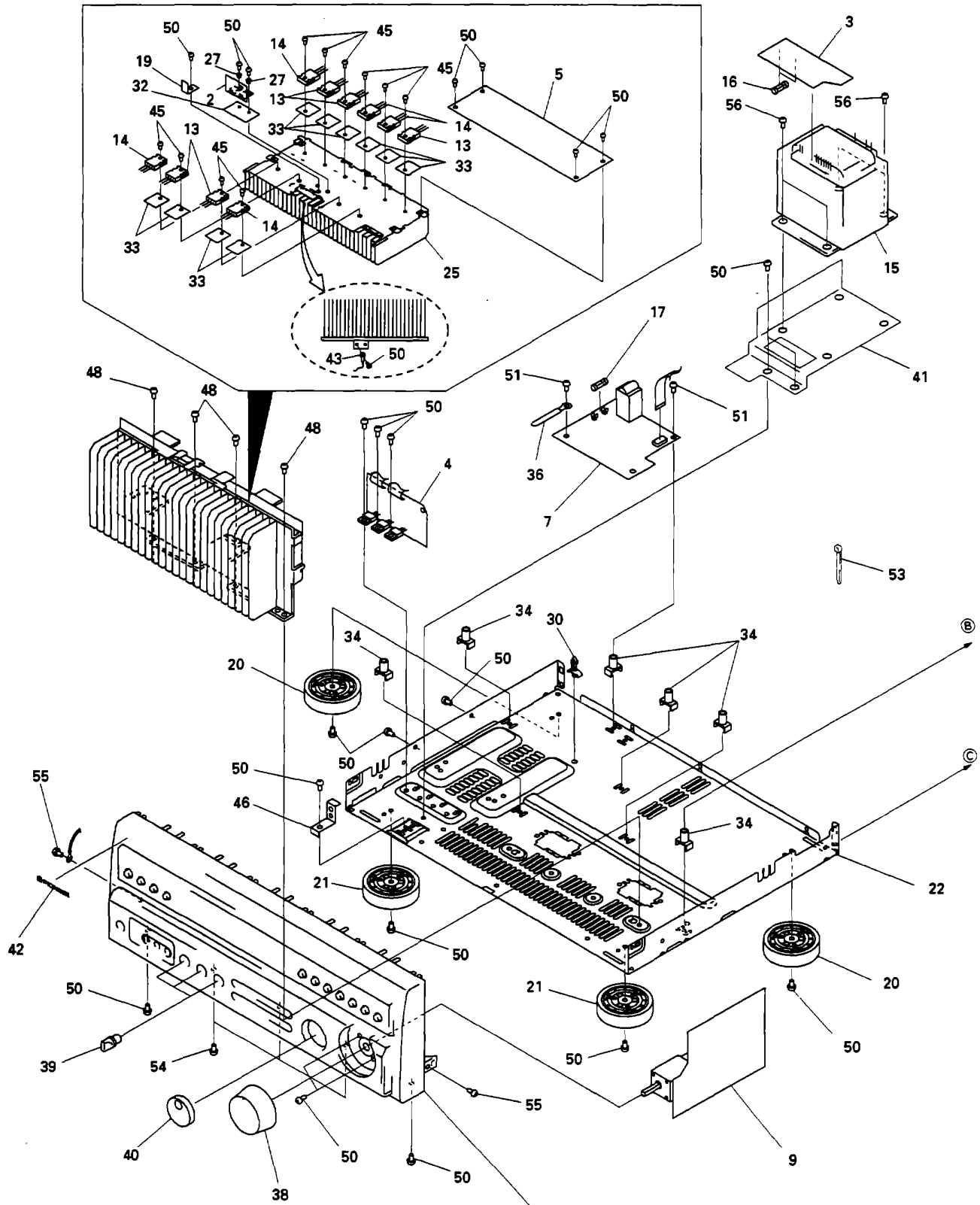
(2) CONTRAST TABLE

VSX-D506S/KCXJI, VSX-456/KUXJI, KCXJI and VSX-D506S/KUXJI have the same construction except for the following :

Mark	No.	Symbol & Description	Part No.				Remarks
			VSX-D506S		VSX-456		
			KUXJI	KCXJI	KUXJI	KCXJI	
NSP	1	Alkaline Dry Cell Battery (LR6,AA)	AEX1007	AEX1007	Not used	Not used	
NSP	1	Dry Cell Battery (R6P,AA)	Not used	Not used	VEM-013	VEM-013	
	3	Operating Instructions (English)	ARB7091	ARB7091	ARB7089	Not used	
	3	Operating Instructions (English/French)	Not used	Not used	Not used	ARE7098	
	4	Sub Operating Instructions (English)	ARH7015	ARH7015	Not used	Not used	
NSP	5	Warranty Card	ARY1051	ARY1075	ARY1051	ARY1075	
	8	Operating Instructions (French)	Not used	ARC7141	Not used	Not used	
	9	Remote Control Unit (CU-VSX115)	AXD7124	AXD7124	Not used	Not used	
	9	Remote Control Unit (CU-VSX113)	Not used	Not used	AXD7119	AXD7119	
	12	Packing Case	AHD7357	AHD7357	AHD7356	AHD7356	
	15	Battery Cover	AZN7327	AZN7327	AZA7123	AZA7123	

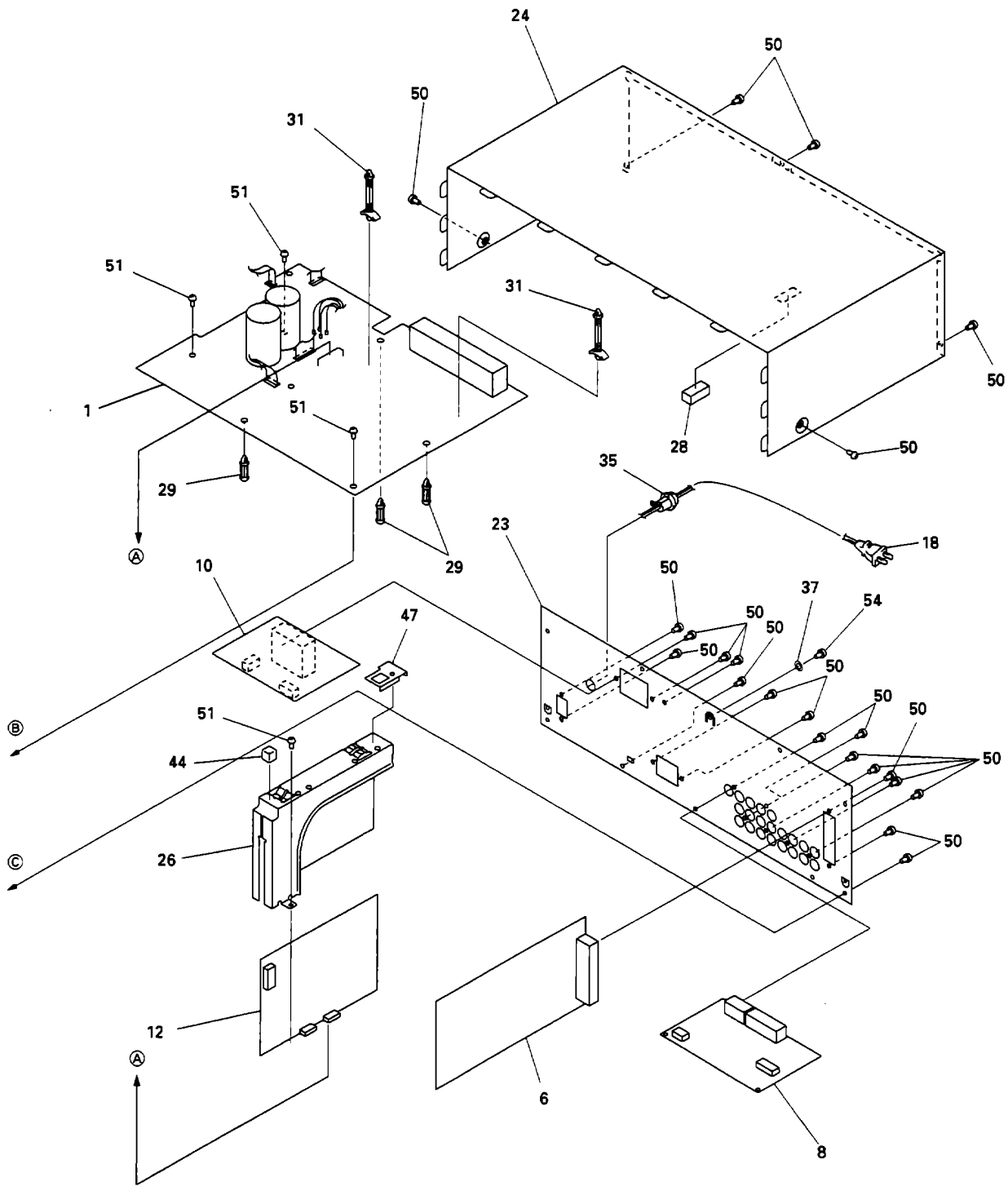
VSX-D506S, VSX-456

2.2 EXTERIOR



Refer to "2.3 FRONT PANEL SECTION"

VSX-D506S, VSX-456



VSX-D506S, VSX-456

(1) PARTS LIST

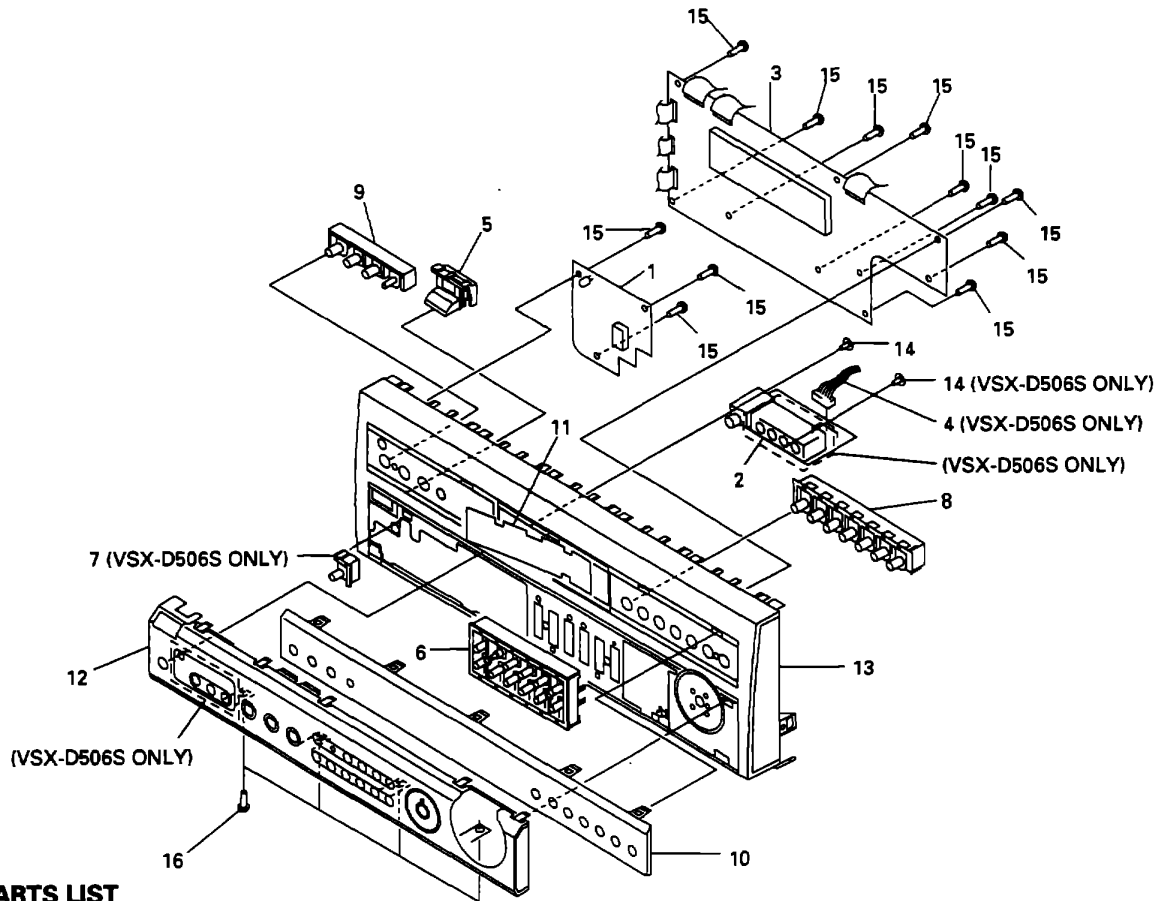
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.	
NSP	1	INPUT ASSY	AWZ8609	NSP	46	PCB Stopper	ANG7136	
	2	MOS FET ASSY	AWZ8497		47	ISO Plate	ANG7141	
	3	TRANS ASSY	AWZ8593		48	Screw	ABA7019	
	4	REG.1 ASSY	AWZ8599		49		
	5	R/C AMP ASSY	AWZ8805		50	Screw	BBZ30P080FZK	
NSP	6	FM/AM TUNER MOJULE	AXQ7219	NSP	51	Screw	BBZ30P200FMC	
	7	PRIMARY ASSY	AWZ8598		52		
	8	VIDEO/SR ASSY	See Contrast table (2)		53	Binder	ZCA-BK1	
	9	VOLUME ASSY	AWZ8600		54	Screw	ABA7008	
	10	R/C SPEAKER ASSY	AWZ8597		55	Screw	ABA-298	
	11			56	Screw	ABA1147	
	12	PRO LOGIC ASSY	See Contrast table (2)					
	△	13	Transistor		2SA1962			
	△	14	Transistor		2SC5242			
	△	15	Power Transformer (AC 120V)		See Contrast table (2)			
△	16	Fuse (FU3, FU4 : 1.6A)	REK1077					
△	17	Fuse (FU1 : 6.3A)	REK1085					
△	18	AC Power Cord	PDG1015					
	19	FET Plate	ANG7124					
	20	Insulator Assy	DXA1490					
	21	Insulator	PNW1912					
	22	Chassis	ANA7052					
	23	Rear Panel	See Contrast table (2)					
	24	Bonnet Case	ANE7136					
	25	Radiator	ANH7050					
NSP	26	Shield Case	ANK7032					
	27	Bushing	AEC1402					
NSP	28	Cushion	AEB7076					
	29	PCB Support	AEC1581					
	30	PCB Support	AEC7006					
	31	PCB Support	AEC7056					
	32	Sheet	AEE1028					
	33	Sheet	AEE7010					
	34	PCB Mold	AMR2533					
	35	Cord Stopper	CM-22C					
NSP	36	Clamper	RNE1277					
	37	Washer	VEC1254					
	38	Round Knob L	AAB7082					
	39	Round Knob S	AAB7106					
	40	Jog Knob	AAB7048					
	41	Trans Flame	ANG7140					
	42	Name Plate	PAM1608					
NSP	43	Cord with Plug (J105)	DE012CD0					
NSP	44	Cushion	AEB7081					
	45	Screw	ABA1037					

(2) CONTRAST TABLE

VSX-D506S/KCXJI, VSX-456/KUXJI, KCXJI and VSX-D506S/KUXJI have the same construction except for the following :

Mark	No.	Smbol & Description	Part No.				Remarks
			VSX-D506S		VSX-456		
			KUXJI	KCXJI	KUXJI	KCXJI	
△	8	VIDEO/SR ASSY	AWZ8509	AWZ8509	AWZ8601	AWZ8601	
	12	PRO LOGIC ASSY	AWZ8611	AWZ8611	AWZ8510	AWZ8510	
	15	Power Transformer (AC 120V)	ATS7164	ATS7165	ATS7164	ATS7165	
	23	Rear Panel	ANC7479	ANC7526	ANC7478	ANC7528	

2.3 FRONT PANEL SECTION



• PARTS LIST

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
NSP	1 Power Switch ASSY	See Contrast table (2)	11	FL Filter	AAK7294
NSP	2 Front Input ASSY	See Contrast table (2)	12	Sub Panel	See Contrast table (2)
	3 FL U-COM ASSY	See Contrast table (2)	13	Front Panel	See Contrast table (2)
NSP	4 Housing 5P Shield	See Contrast table (2)	14	Screw	See Contrast table (2)
	5 Power Button	AAD7325	15	Screw	BPZ30P080FMC
	6 Tuner Button	AAD7326			
	7 Input Button	See Contrast table (2)	16	Screw	BBZ30P080FZK
	8 Func. Button	AAD7328			
	9 SFC Button	AAD7329			
	10 FL Panel	AAK7293			

(2) CONTRAST TABLE

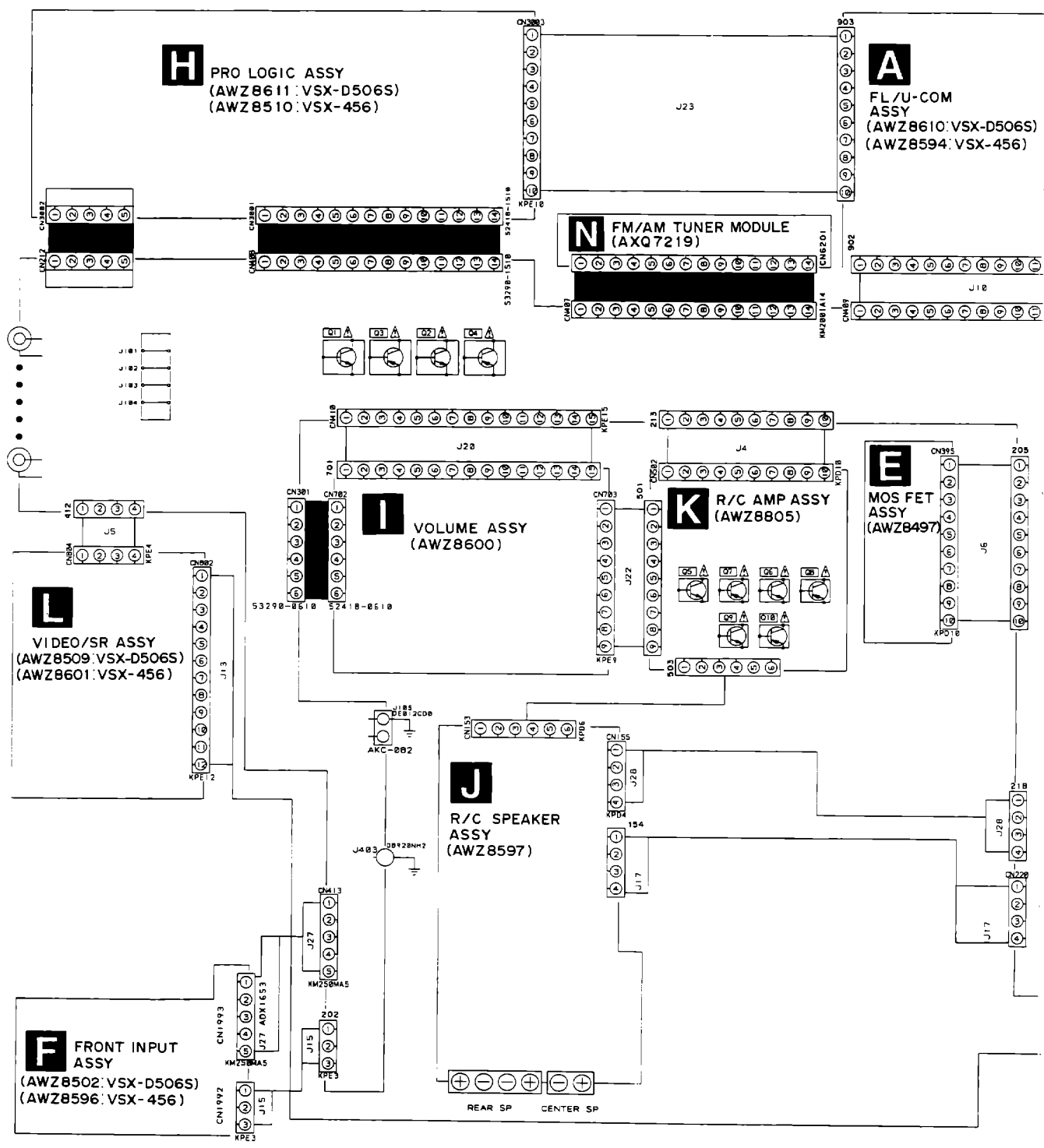
VSX-D506S/KCXJI, VSX-456/KUXJI, KCXJI and VSX-D506S/KUXJI have the same construction except for the following :

Mark	No.	Symbol & Description	Part No.				Remarks
			VSX-D506S		VSX-456		
			KUXJI	KCXJI	KUXJI	KCXJI	
NSP	1	POWER SWITCH ASSY	AWZ8501	AWZ8501	AWZ8595	AWZ8595	
NSP	2	FRONT INPUT ASSY	AWZ8502	AWZ8502	AWZ8596	AWZ8596	
	3	FL/U-COM ASSY	AWZ8610	AWZ8610	AWZ8594	AWZ8594	
NSP	4	Housing 5P Shield	ADX1653	ADX1653	Not used	Not used	
	7	Input Button	AAD7327	AAD7327	Not used	Not used	
	12	Sub Panel	AAP7024	AAP7024	AAP7023	AAP7023	
	13	Front Panel	AMB7390	AMB7390	AMB7389	AMB7389	
	14	Screw	ABA7009	ABA7009	Not used	Not used	

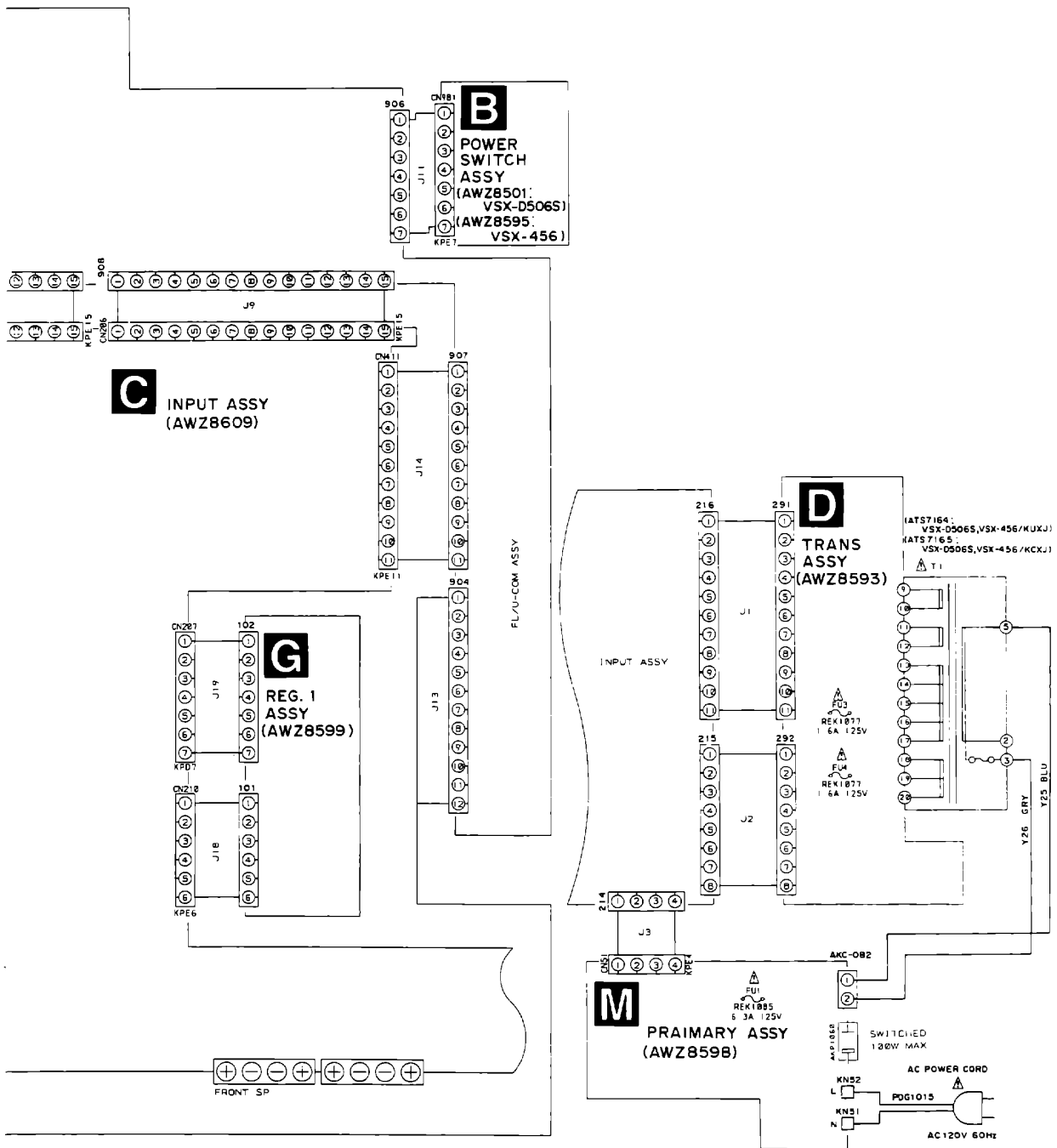
VSX-D506S, VSX-456

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM

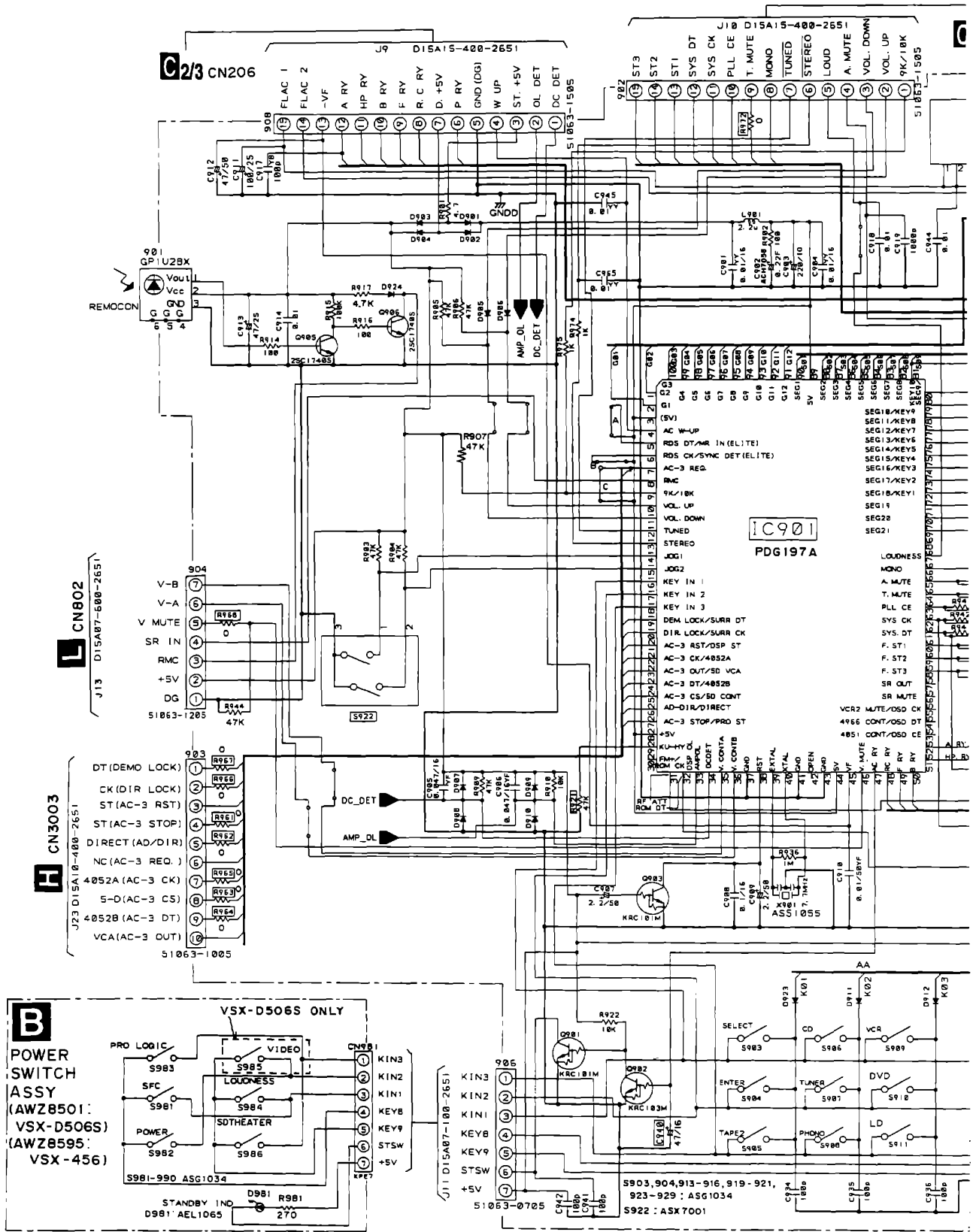


NOTE: When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".



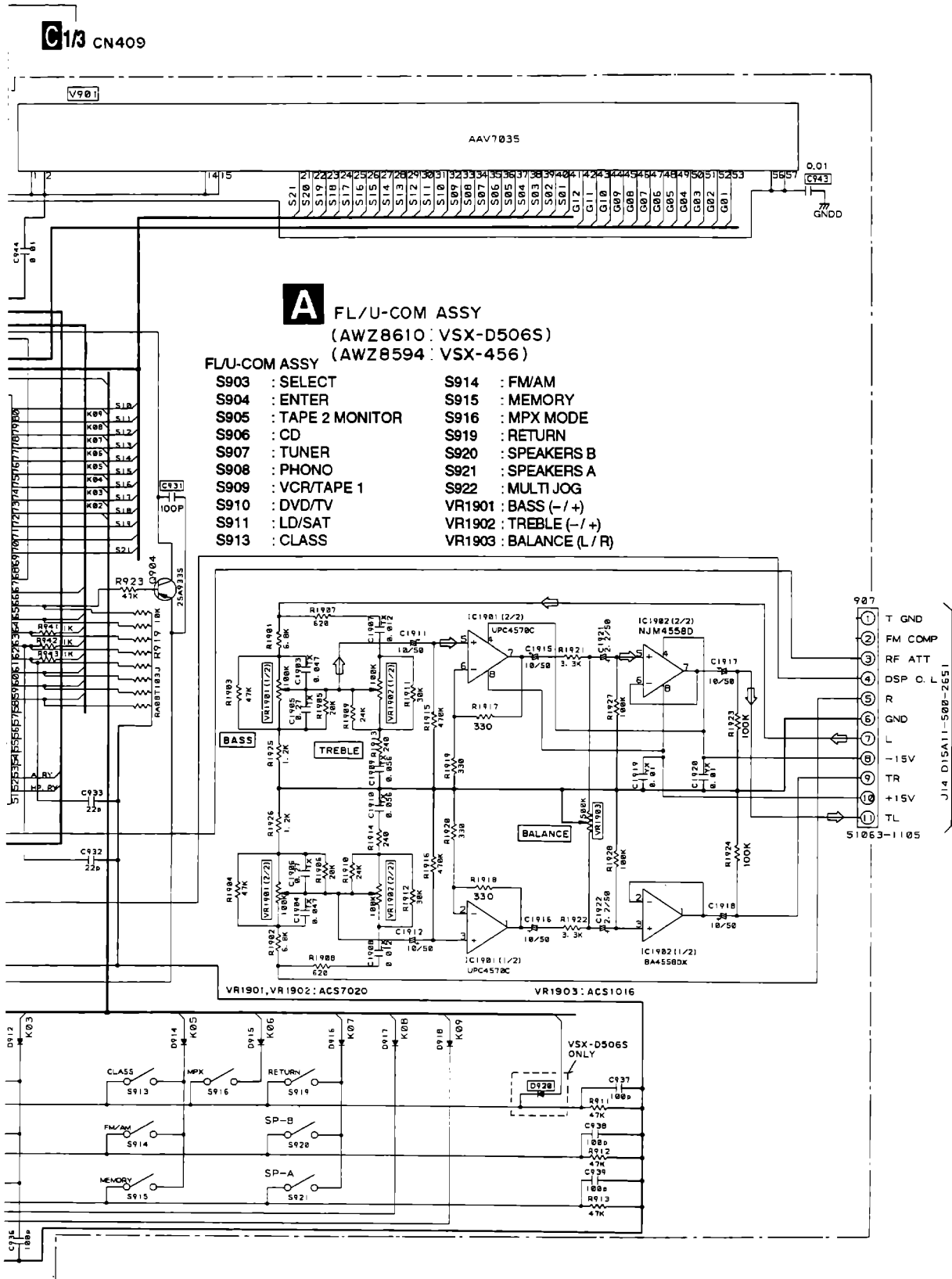
VSX-D506S, VSX-456

3.2 FL/U-COM ASSY AND POWER SWITCH ASSY



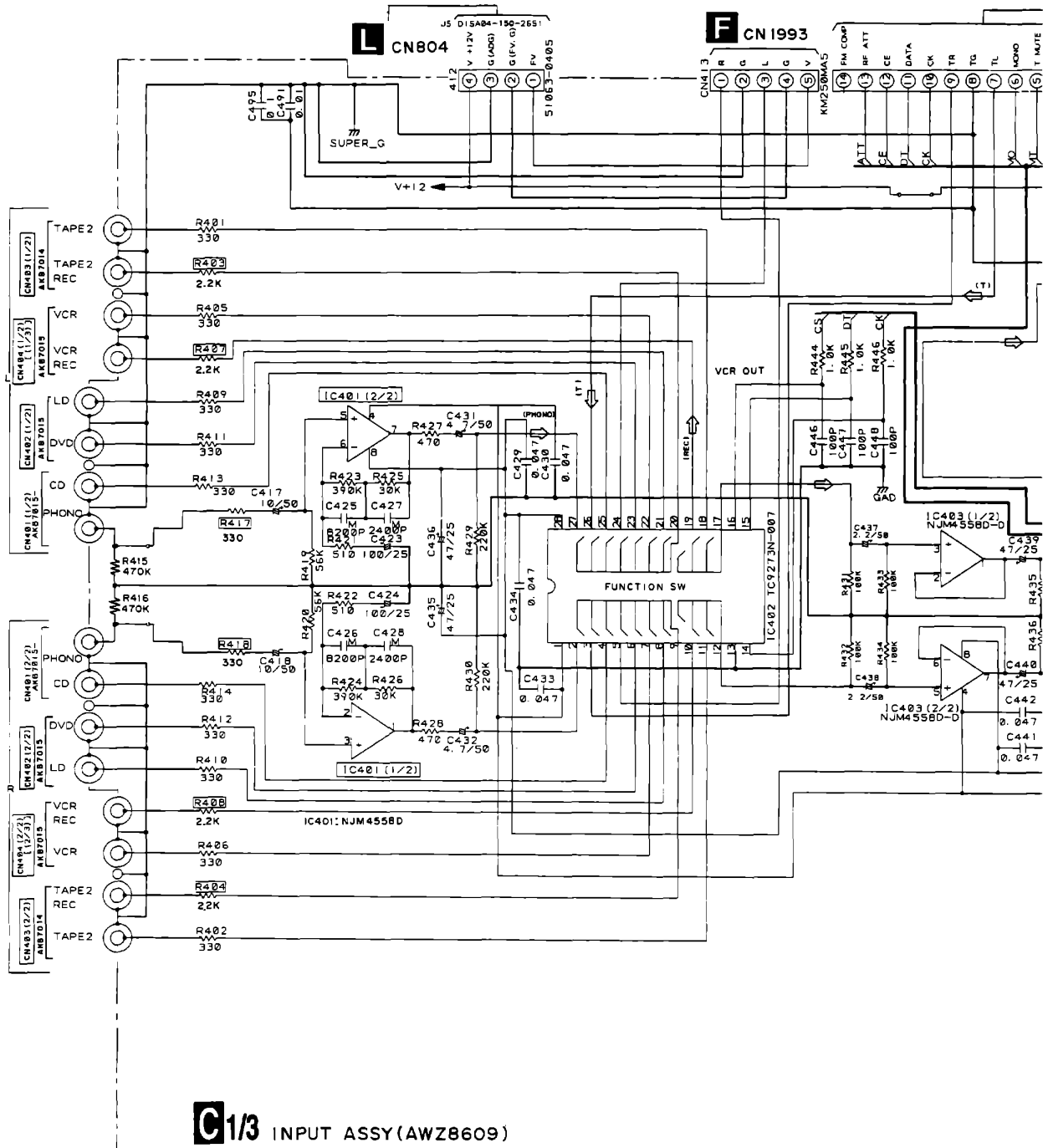
- POWER SW ASSY**
- S981 : SFC MODE
 - S982 : POWER STANDBY/ON
 - S983 : DOLBY PRO LOGIC
 - S984 : LOUDNESS
 - S985 : VIDEO INPUT
 - S986 : 5-D THEATER



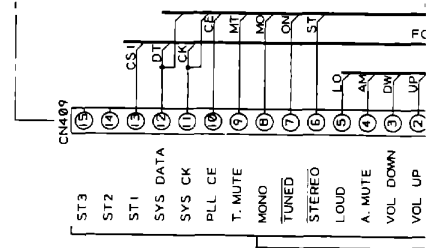


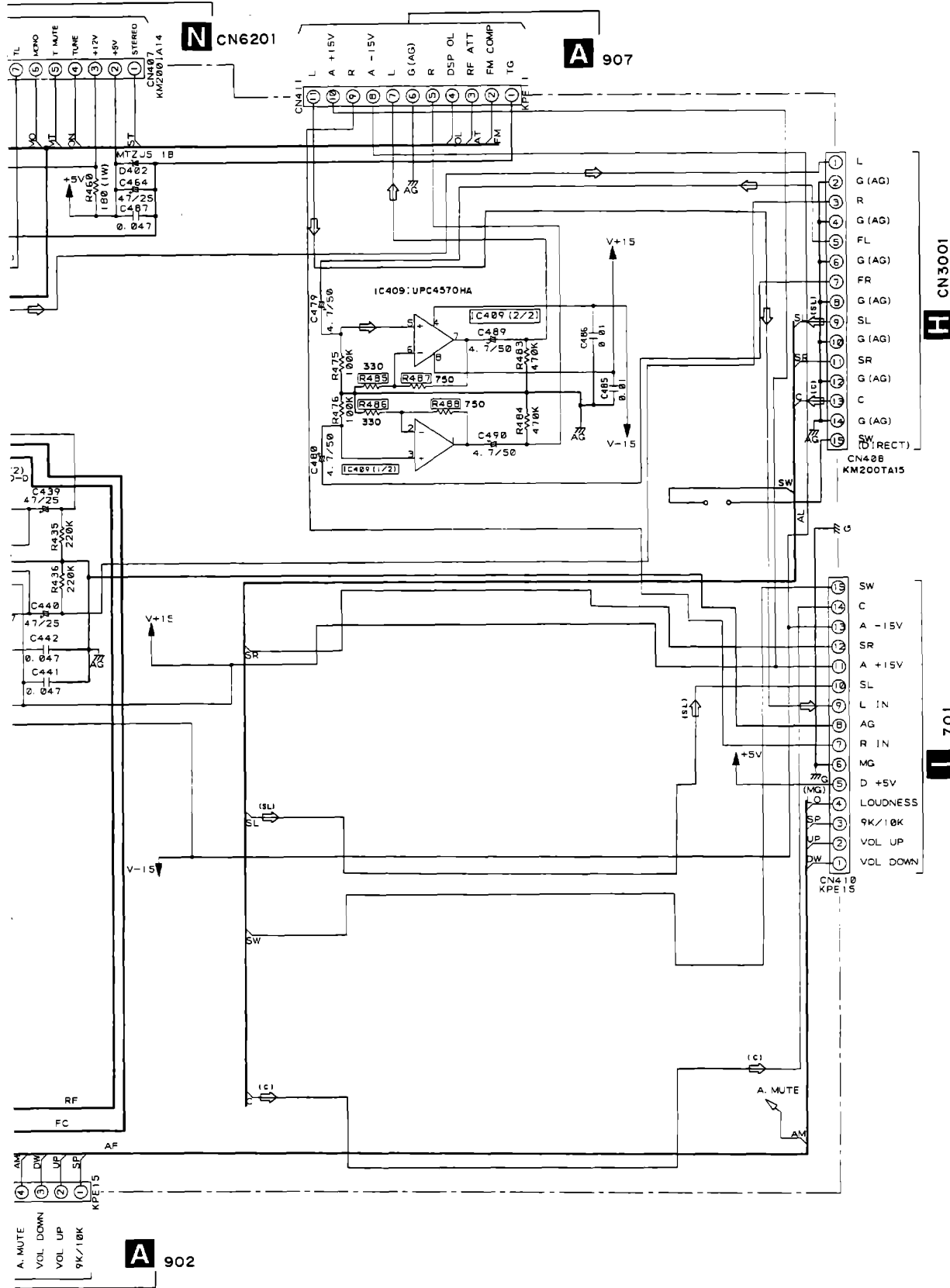
VSX-D506S, VSX-456

3.3 INPUT ASSY (1/3)



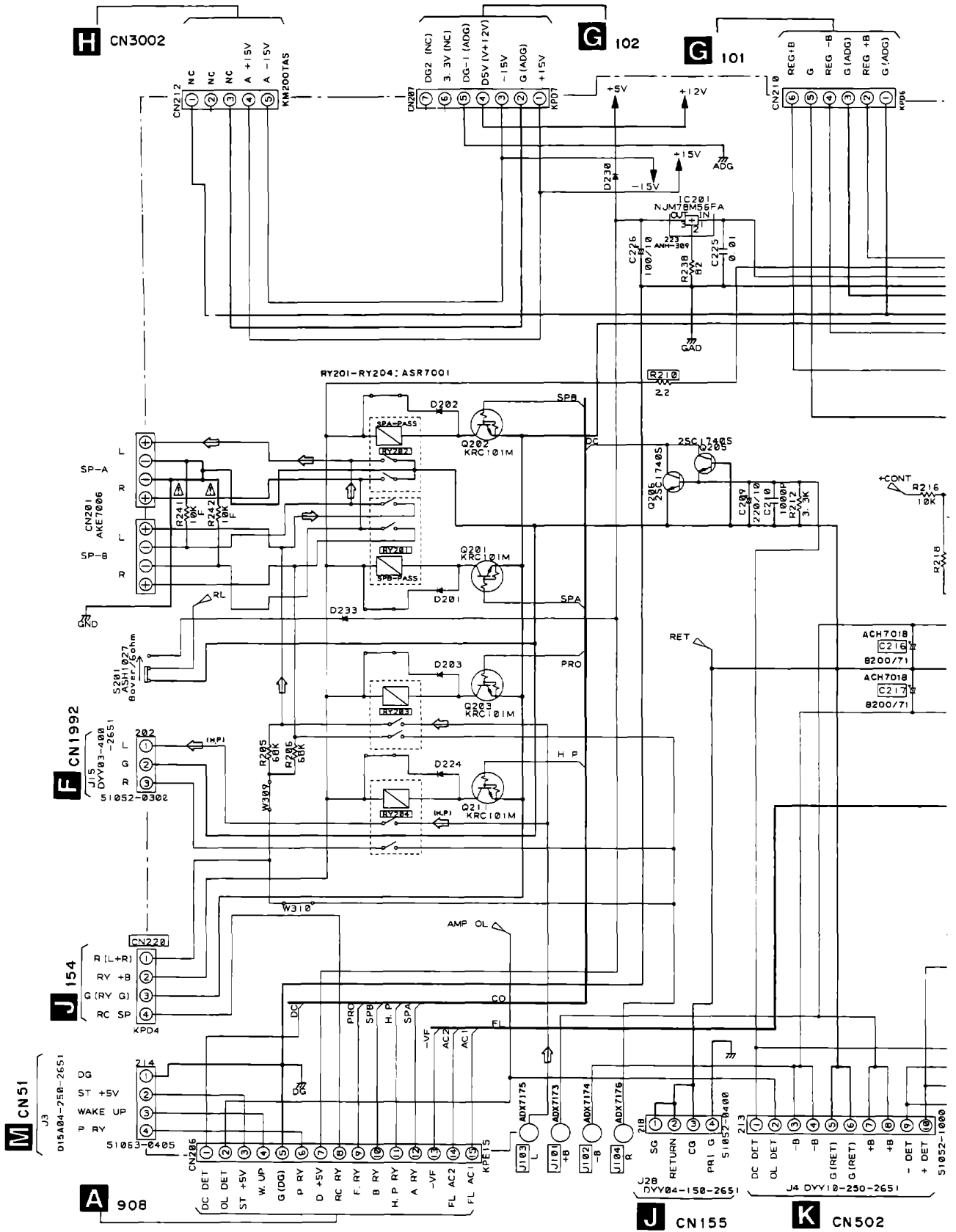
- ⇄: AUDIO SIGNAL ROUTE
- (SL)⇄: AUDIO SIGNAL ROUTE (REAR)
- (C)⇄: AUDIO SIGNAL ROUTE (CENTER)
- (T)⇄: AUDIO SIGNAL ROUTE (TUNER)
- (P)⇄: AUDIO SIGNAL ROUTE (PHONO)
- (REC)⇄: AUDIO SIGNAL ROUTE (REC)





VSX-D506S, VSX-456

3.4 INPUT ASSY (2/3), TRANS ASSY AND MOS FET ASSY



14 **C** 2/3

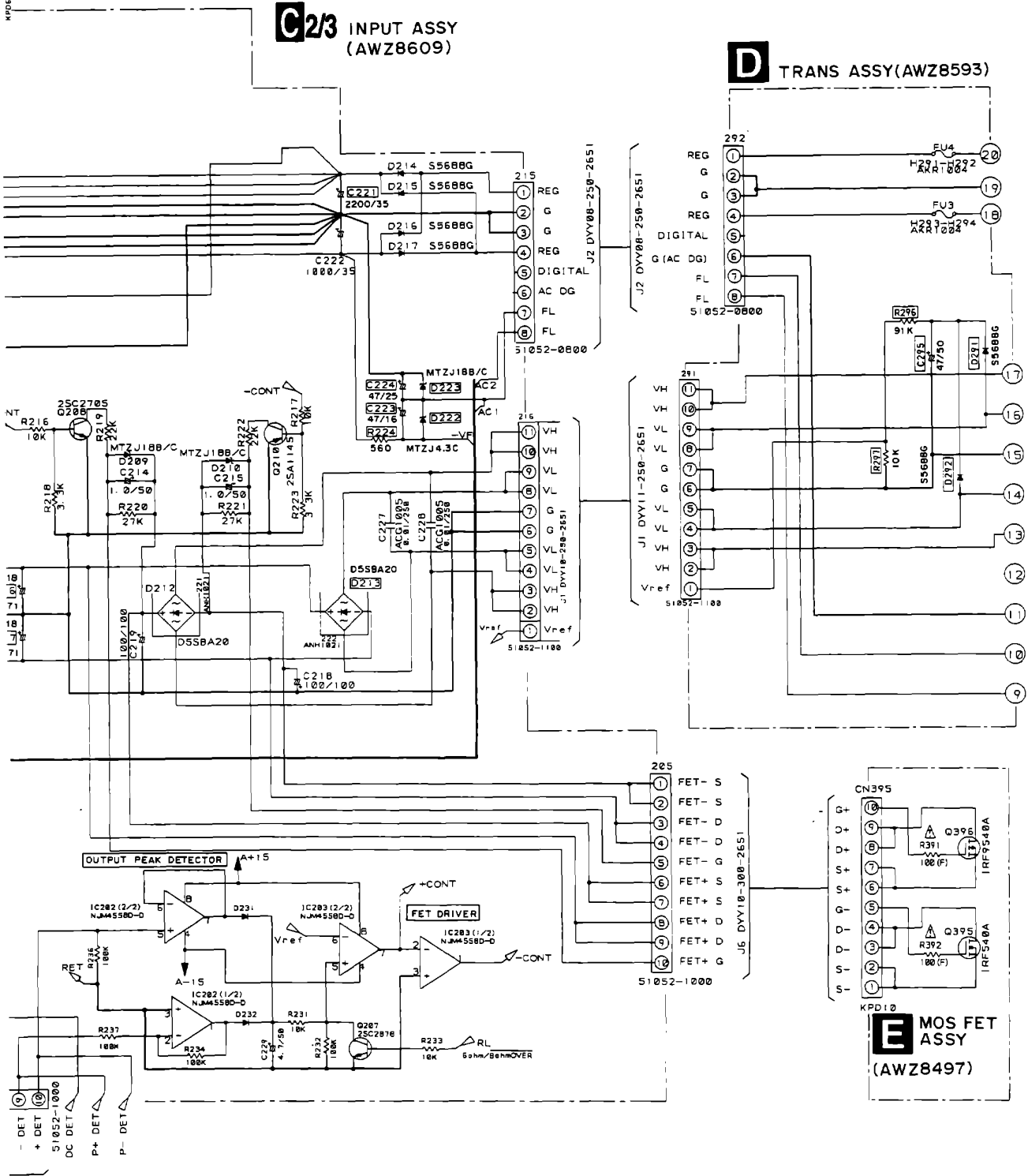
INPUT ASSY
S201 : IMPEDANCE SELECTOR

VSX-D506S, VSX-456

⇒: AUDIO SIGNAL ROUTE
 (H.P)⇒: AUDIO SIGNAL ROUTE (HEADPHONE)

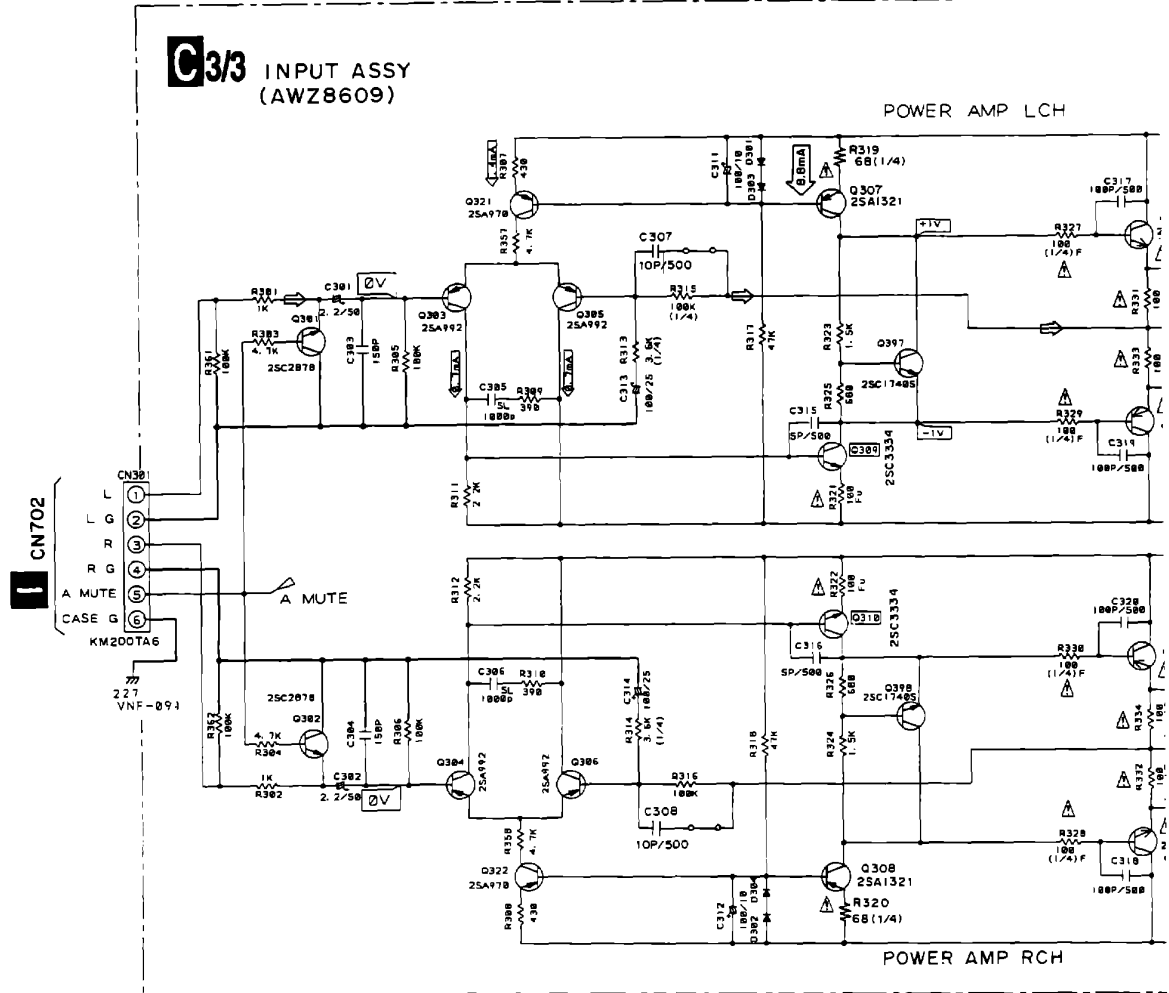
● NOTE FOR FUSE REPLACEMENT

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

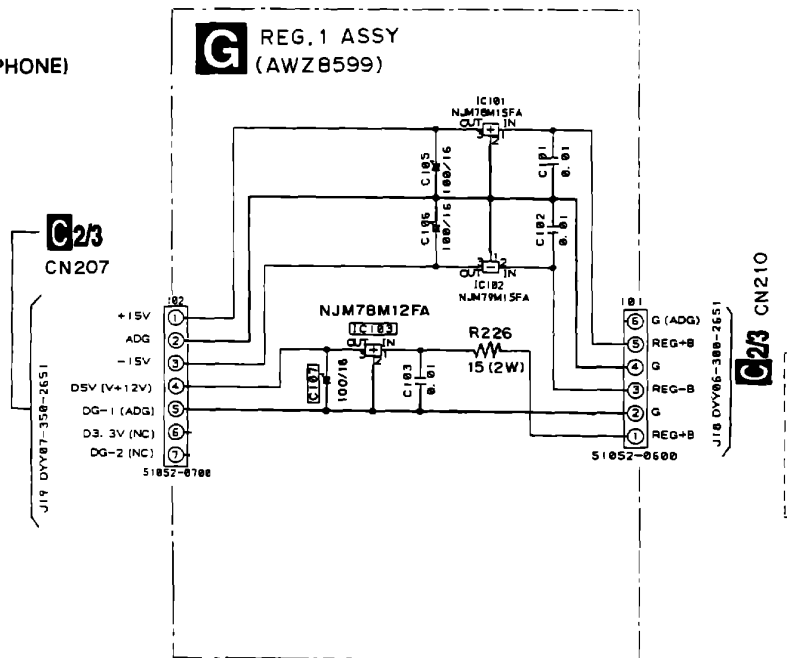


VSX-D506S, VSX-456

3.5 INPUT ASSY (3/3), FRONT INPUT ASSY AND REG.1 ASSY



⇔ AUDIO SIGNAL ROUTE
 (H.P)⇔ AUDIO SIGNAL ROUTE (HEADPHONE)
 (F.IN)⇔ AUDIO SIGNAL ROUTE (F.IN)



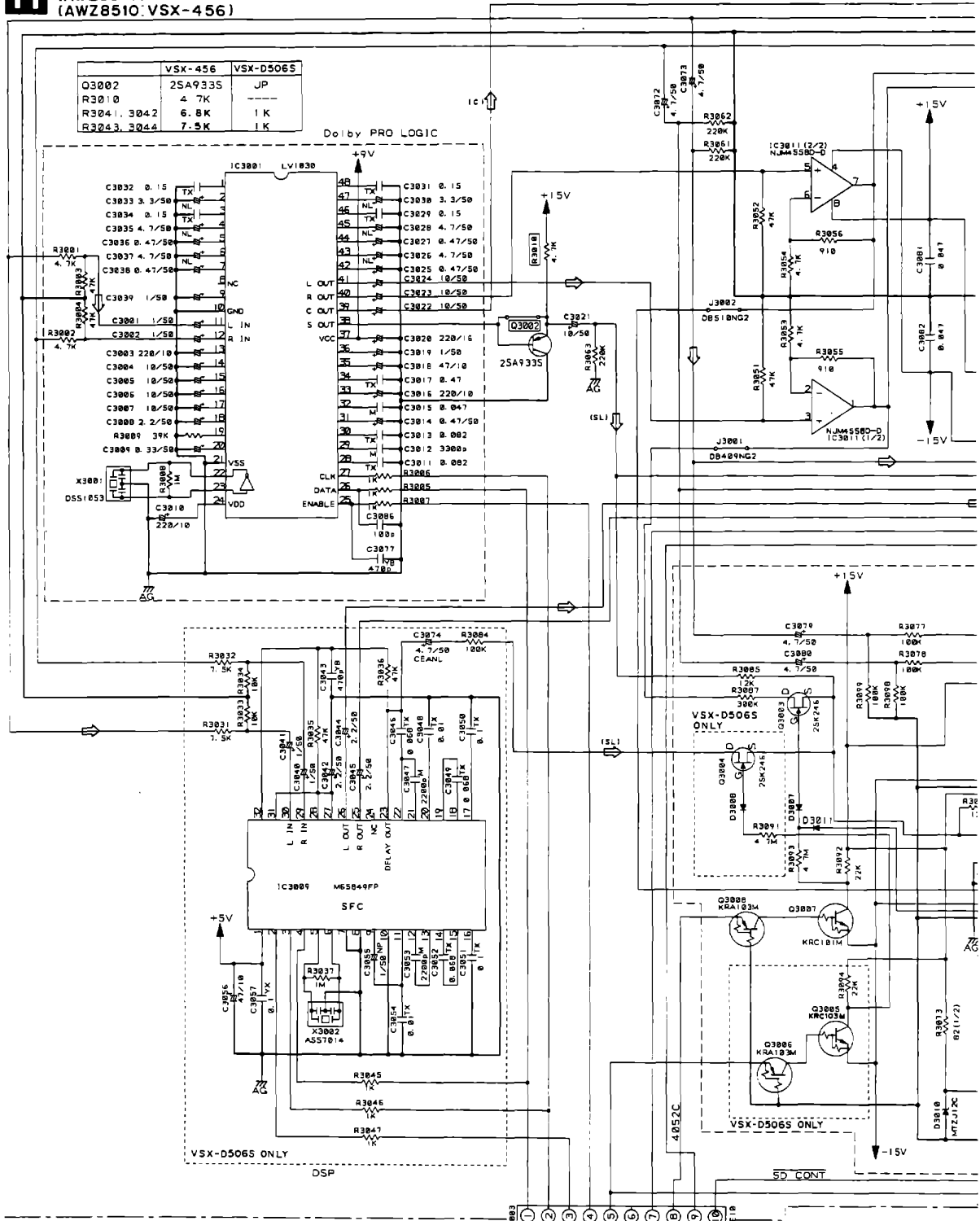
VSX-D506S, VSX-456

3.6 PRO LOGIC ASSY



PRO LOGIC ASSY
(AWZ8611: VSX-D506S)
(AWZ8510: VSX-456)

	VSX-456	VSX-D506S
Q3002	25A9335	JP
R3010	4.7K	---
R3041, 3042	6.8K	1K
R3043, 3044	7.5K	1K



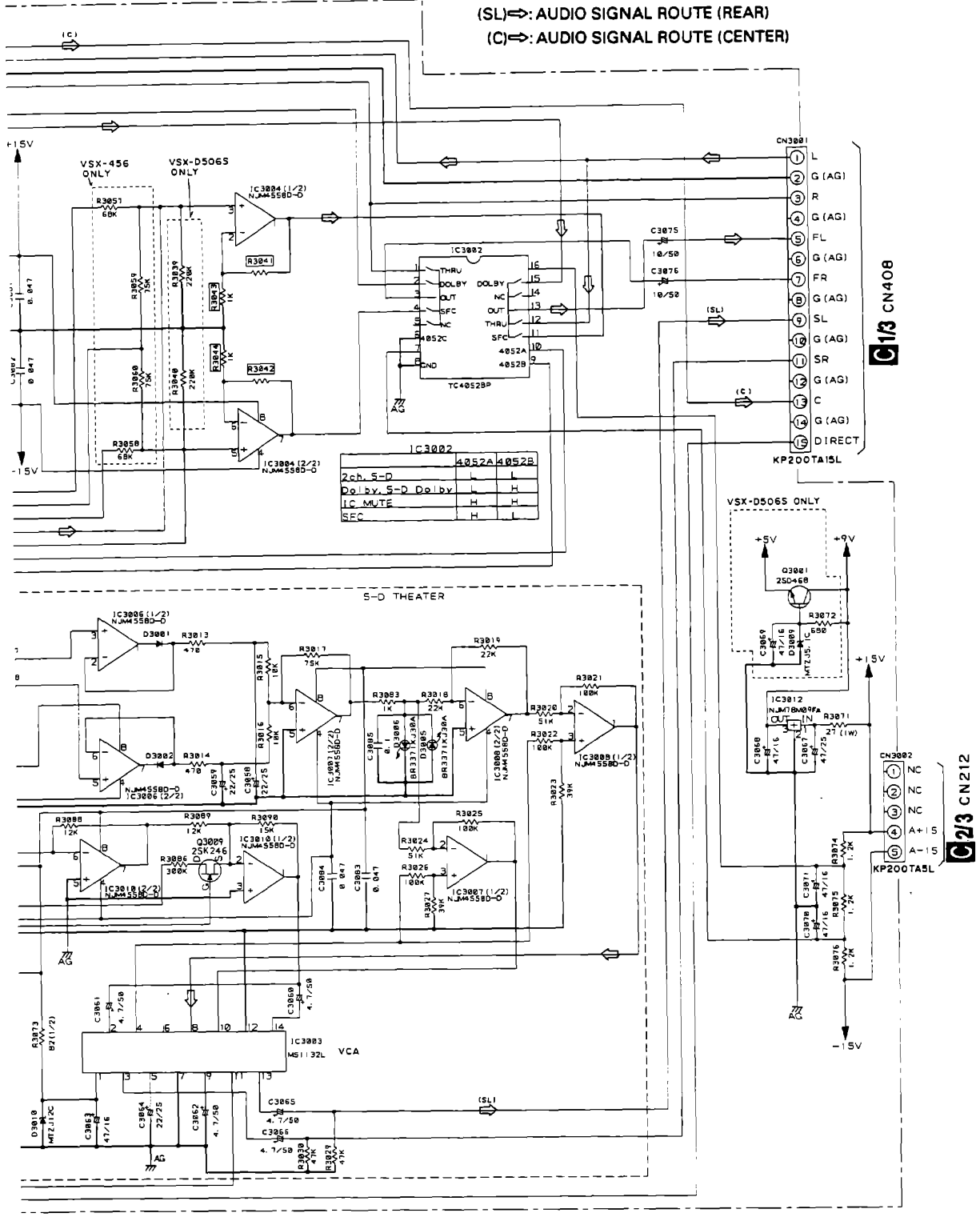
A 903

- ① (MEMO)
- ② (DIR LOCK)
- ③ (AC-3 ST)
- ④ (AC-3 STOP)
- ⑤ (DIRECT (AD/DIR))
- ⑥ (AC-3 ON)
- ⑦ (4852A (AC-3 ON))
- ⑧ (AC-3 ST)
- ⑨ (AC-3 OFF)
- ⑩ (AC-3 OUT)

	4852C	SD CONT
S-D	L	L
EXCEPT S-D	H	H

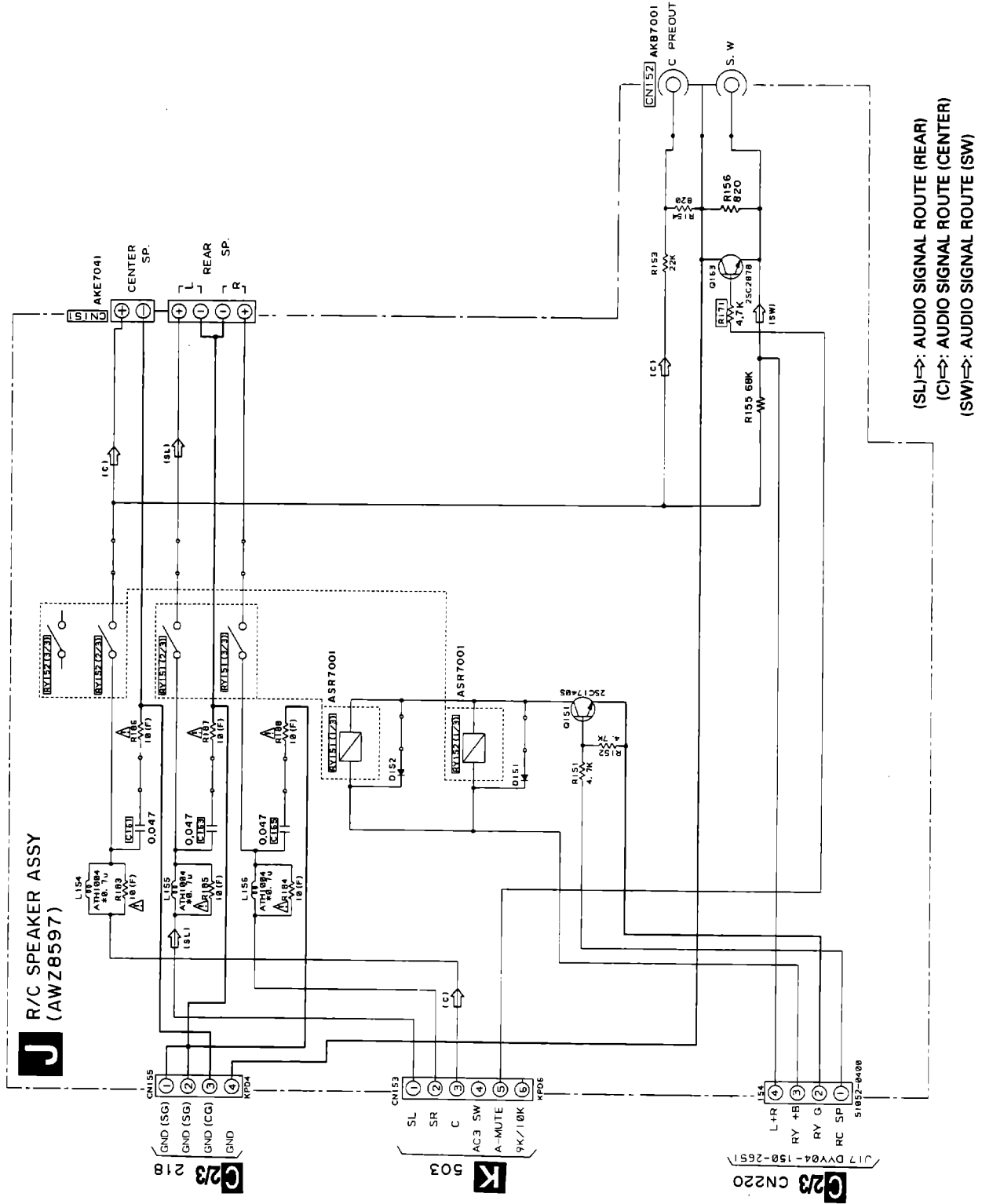


⇒: AUDIO SIGNAL ROUTE
 (SL)⇒: AUDIO SIGNAL ROUTE (REAR)
 (C)⇒: AUDIO SIGNAL ROUTE (CENTER)



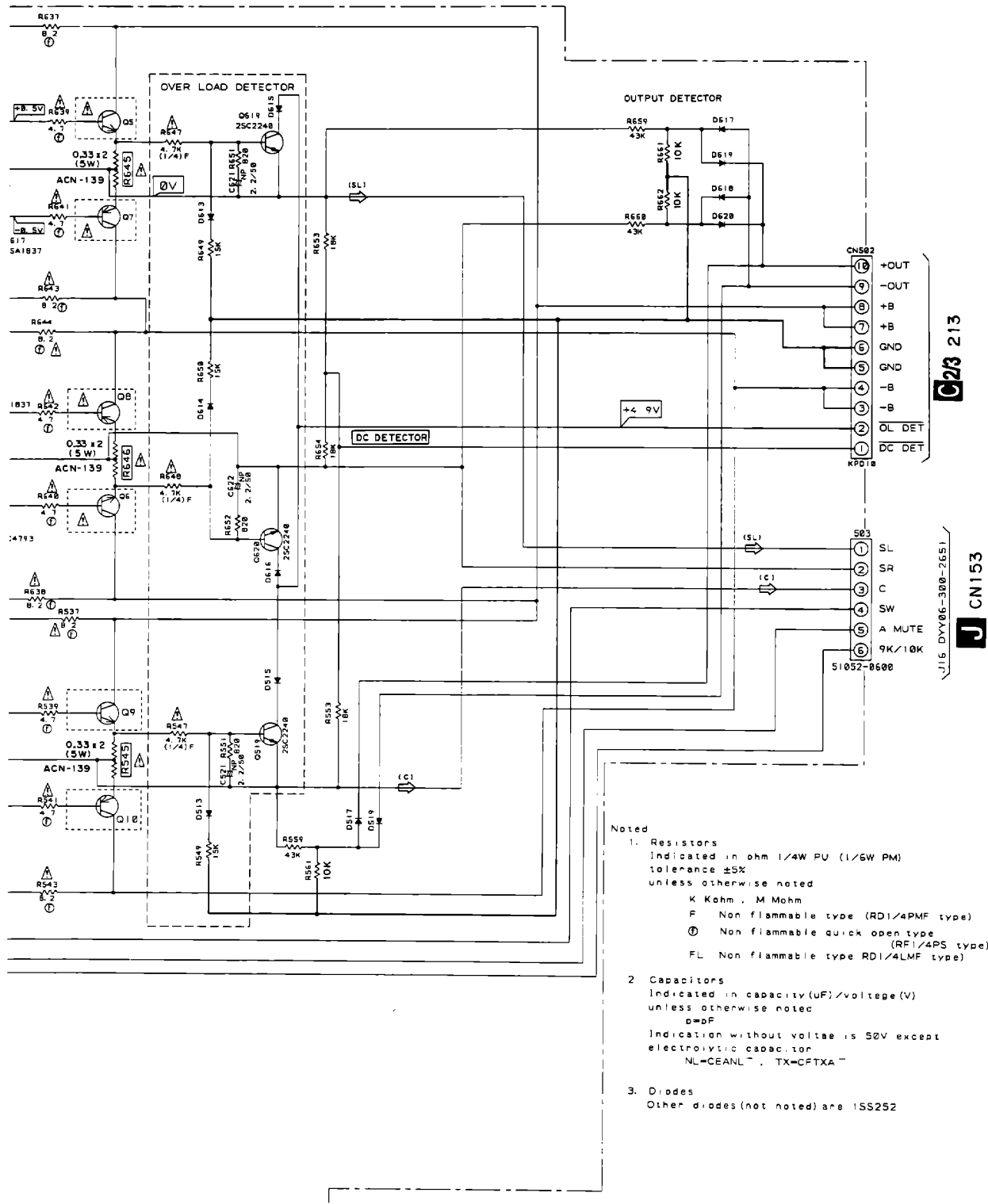
24

3.8 R/C SPEAKER ASSY



VSX-D506S, VSX-456

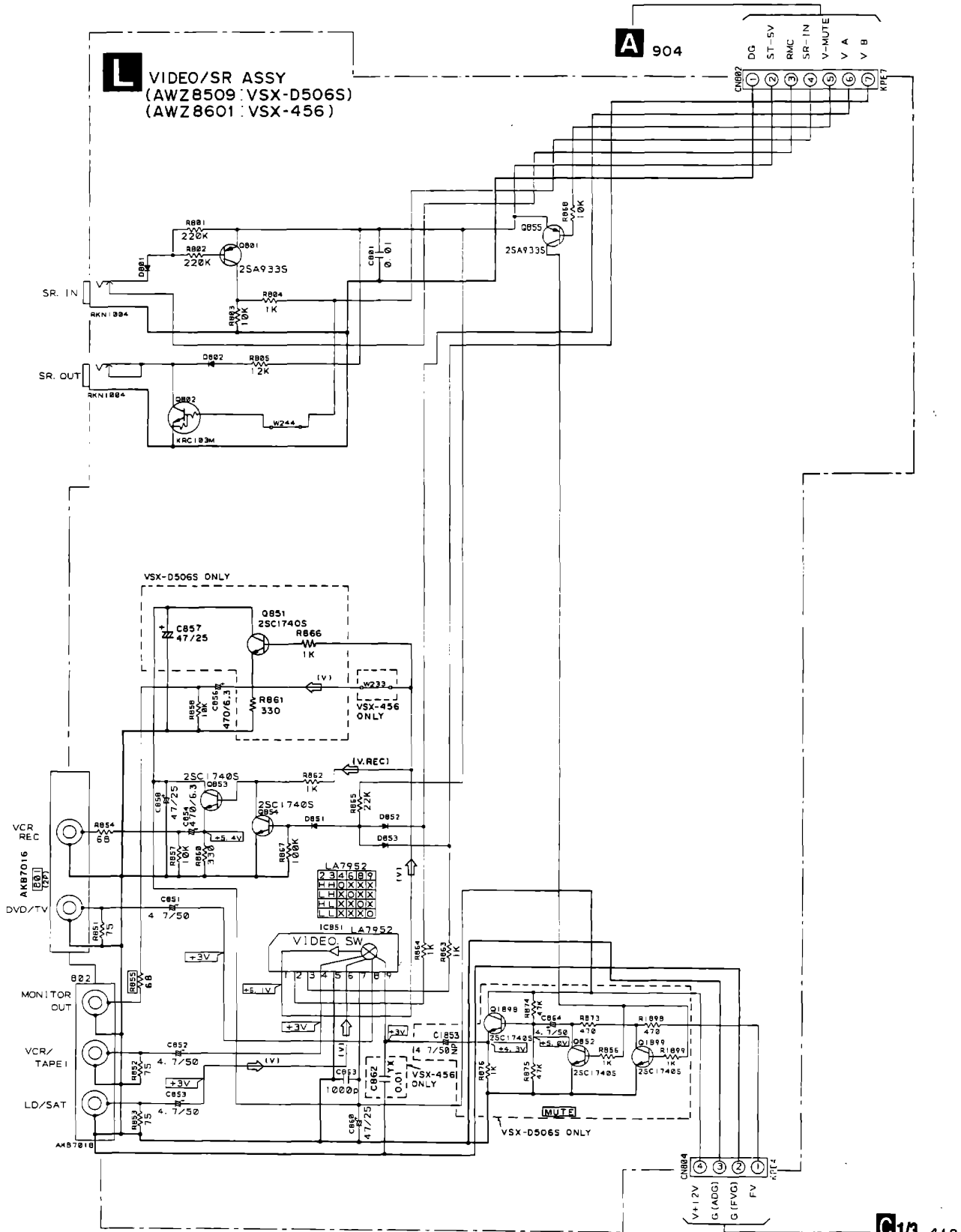
⇒ AUDIO SIGNAL ROUTE
 (SL)⇒ AUDIO SIGNAL ROUTE (REAR)
 (C)⇒ AUDIO SIGNAL ROUTE (CENTER)



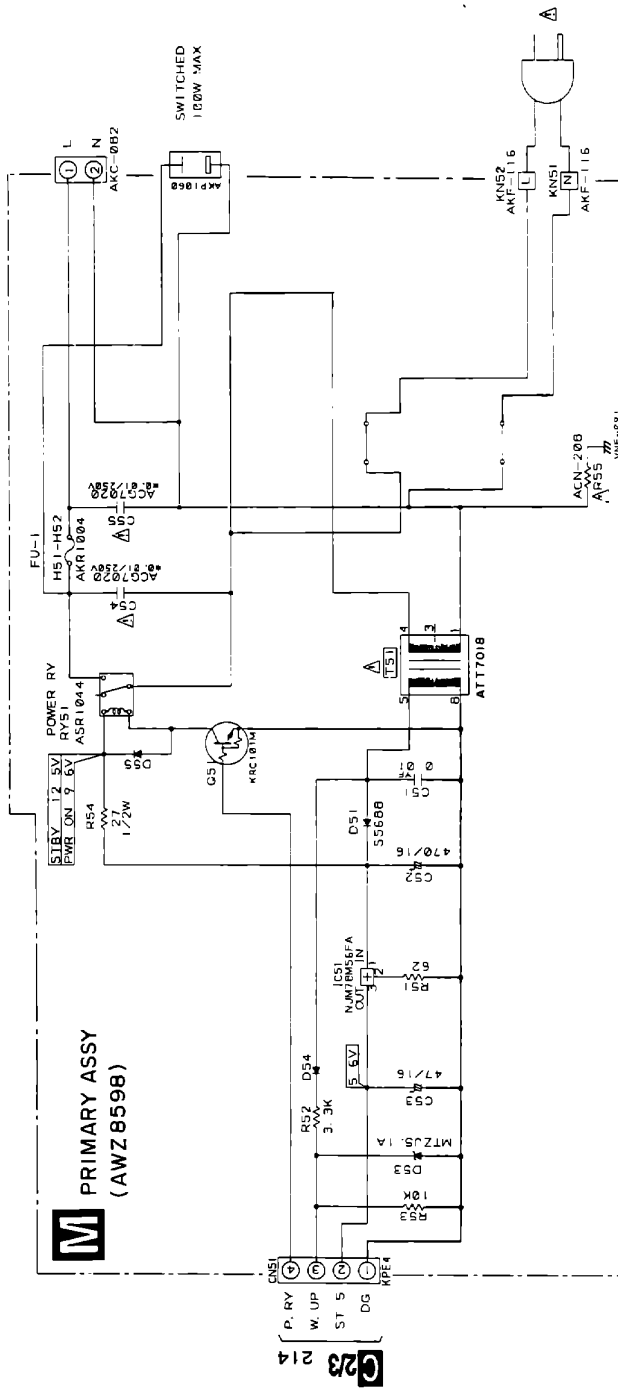
- Noted
- Resistors
 Indicated in ohm 1/4W PU (1/5W PM)
 tolerance ±5%
 unless otherwise noted
 K Kohm, M Mohm
 F Non flammable type (RD1/4PMF type)
 Q Non flammable quick open type (RF1/4PS type)
 FL Non flammable type RD1/4LMF type
 - Capacitors
 Indicated in capacity (uF)/voltage (V)
 unless otherwise noted
 p=pF
 Indication without voltage is 50V except
 electrolytic capacitor
 NL=CEANL, TX=CFTXA
 - Diodes
 Other diodes (not noted) are 1SS252

VSX-D506S, VSX-456

3.10 VIDEO SR ASSY AND PRIMARY ASSY

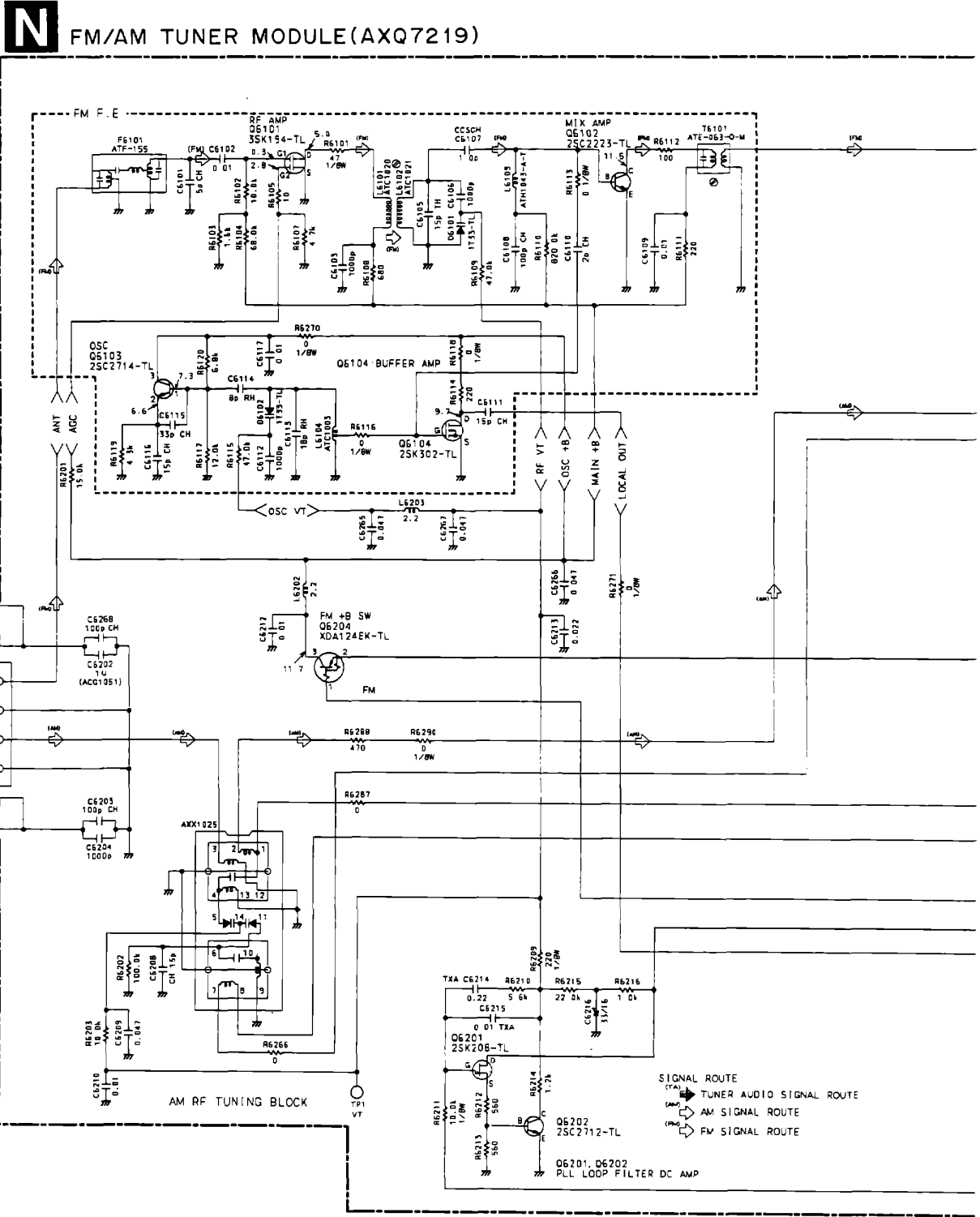


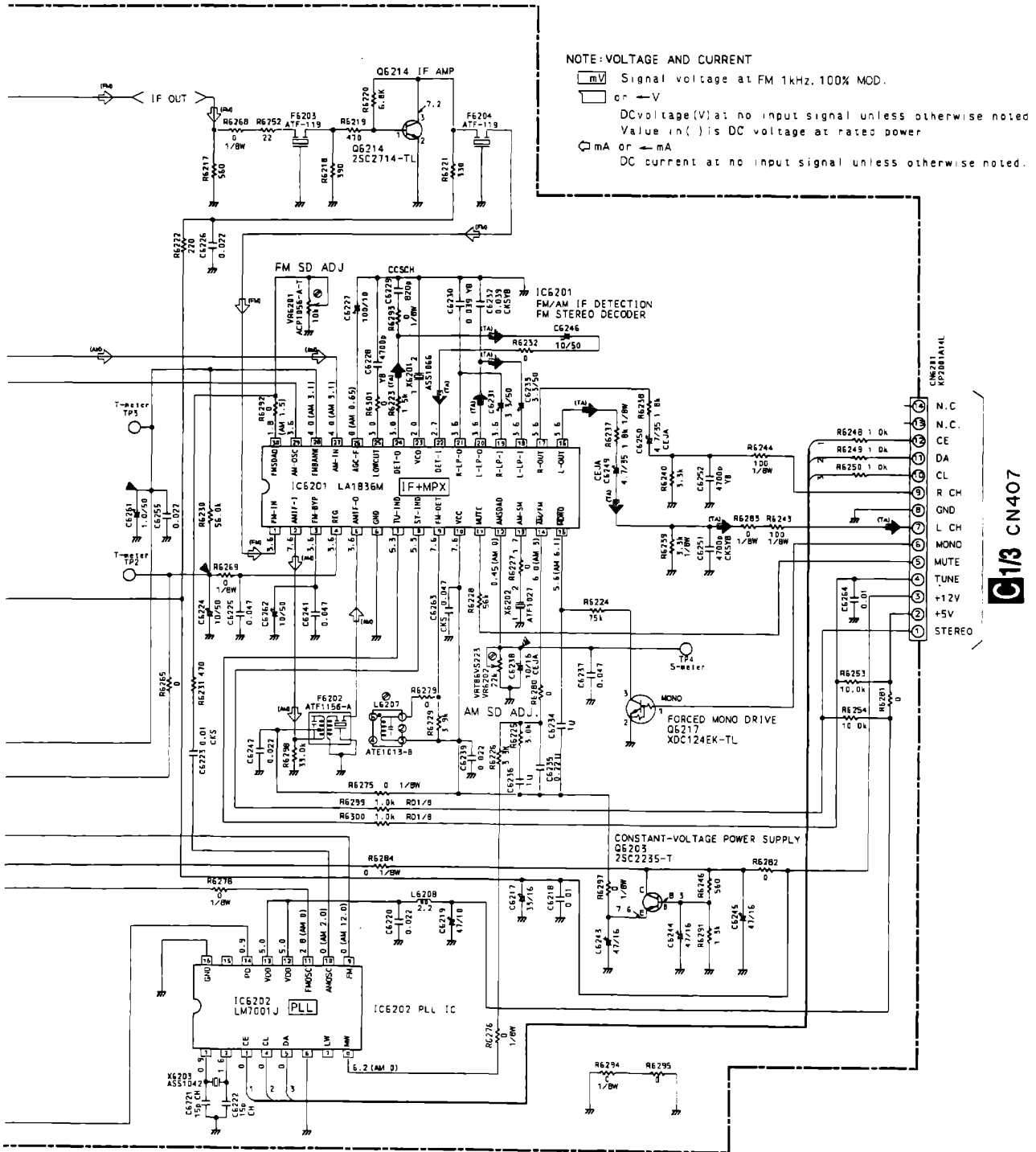
● NOTE FOR FUSE REPLACEMENT
 CAUTION - FOR CONTINUED PROTECTION AGAINST
 RISK OF FIRE, REPLACE ONLY WITH
 SAME TYPE AND RATINGS ONLY.



VSX-D506S, VSX-456

3.11 FM/AM TUNER MODULE





4. PCB CONNECTION DIAGRAM

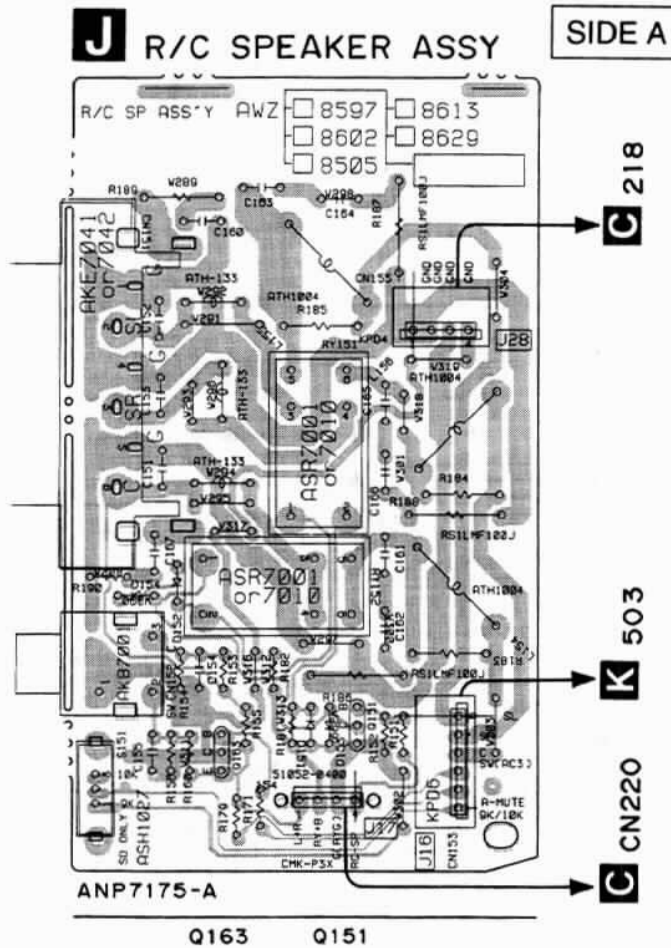
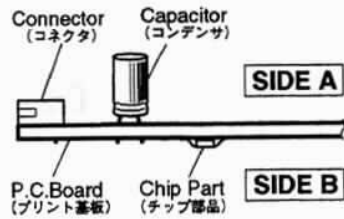
4.1 R/C SPEAKER ASSY AND MOS FET ASSY

NOTE FOR PCB DIAGRAMS:

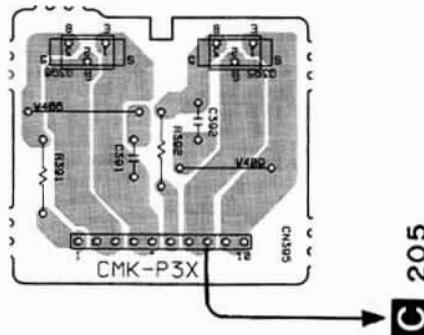
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

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. Viewpoint of PCB diagrams

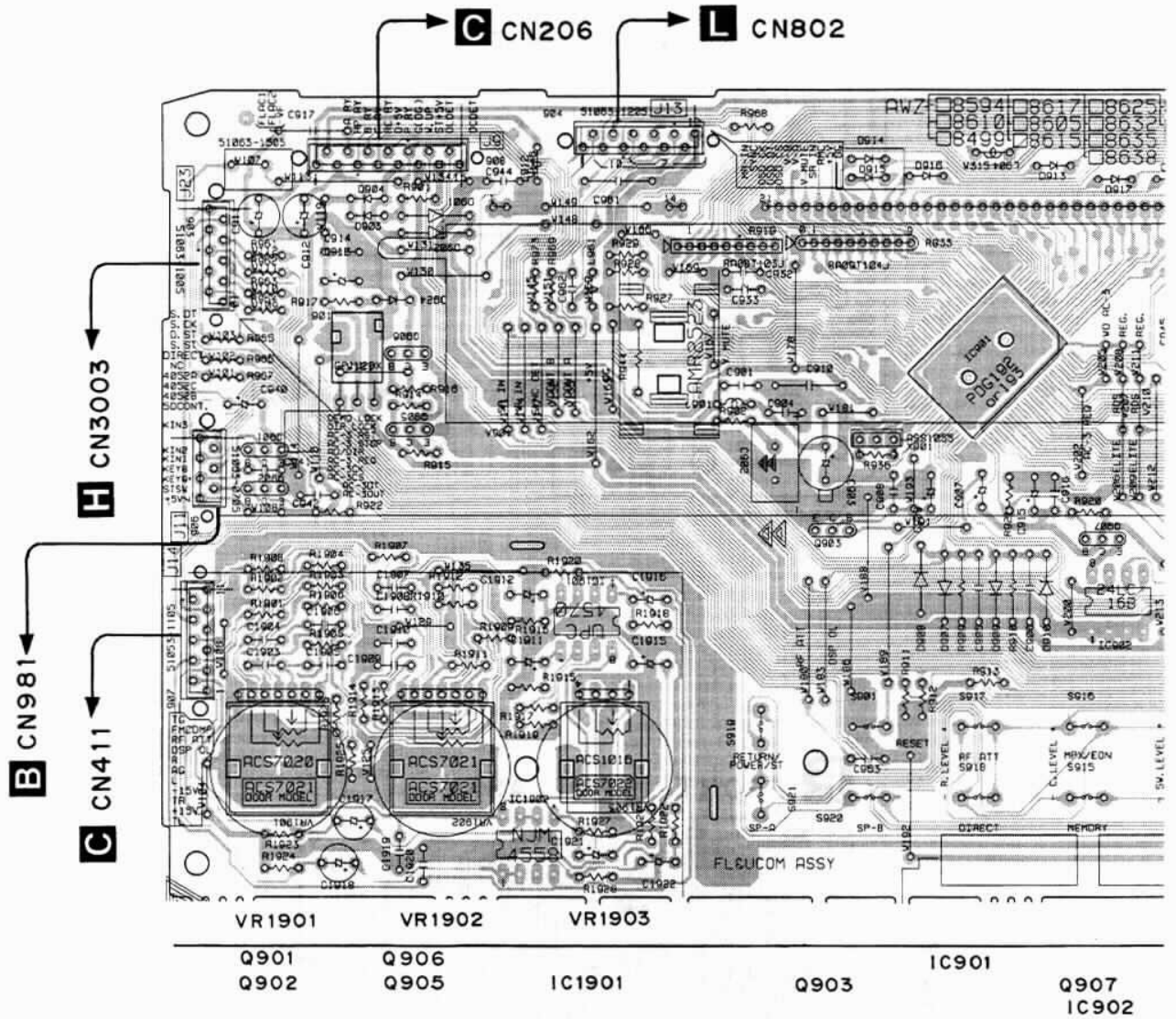


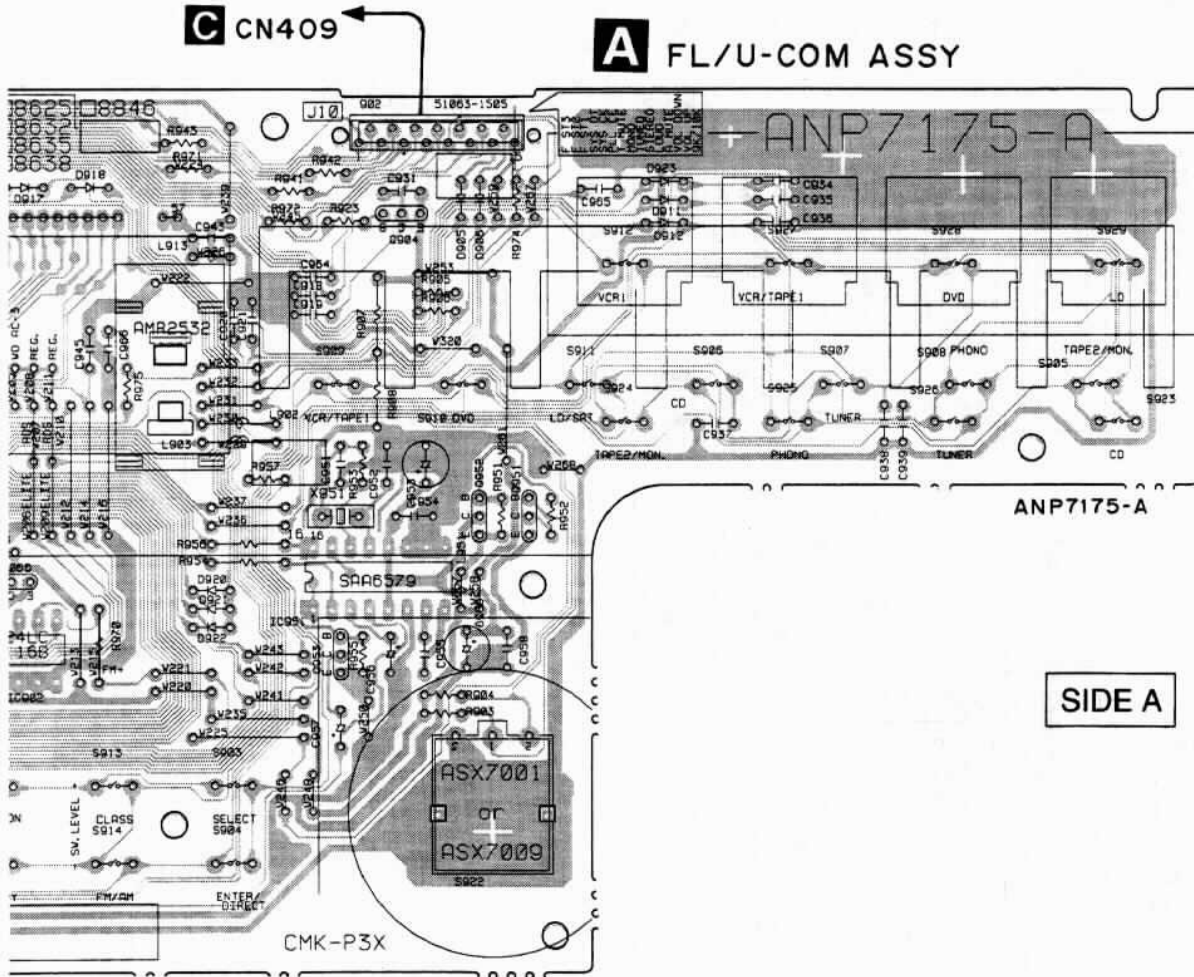
E MOS FET ASSY



VSX-D506S, VSX-456

4.3 FL/U-COM ASSY



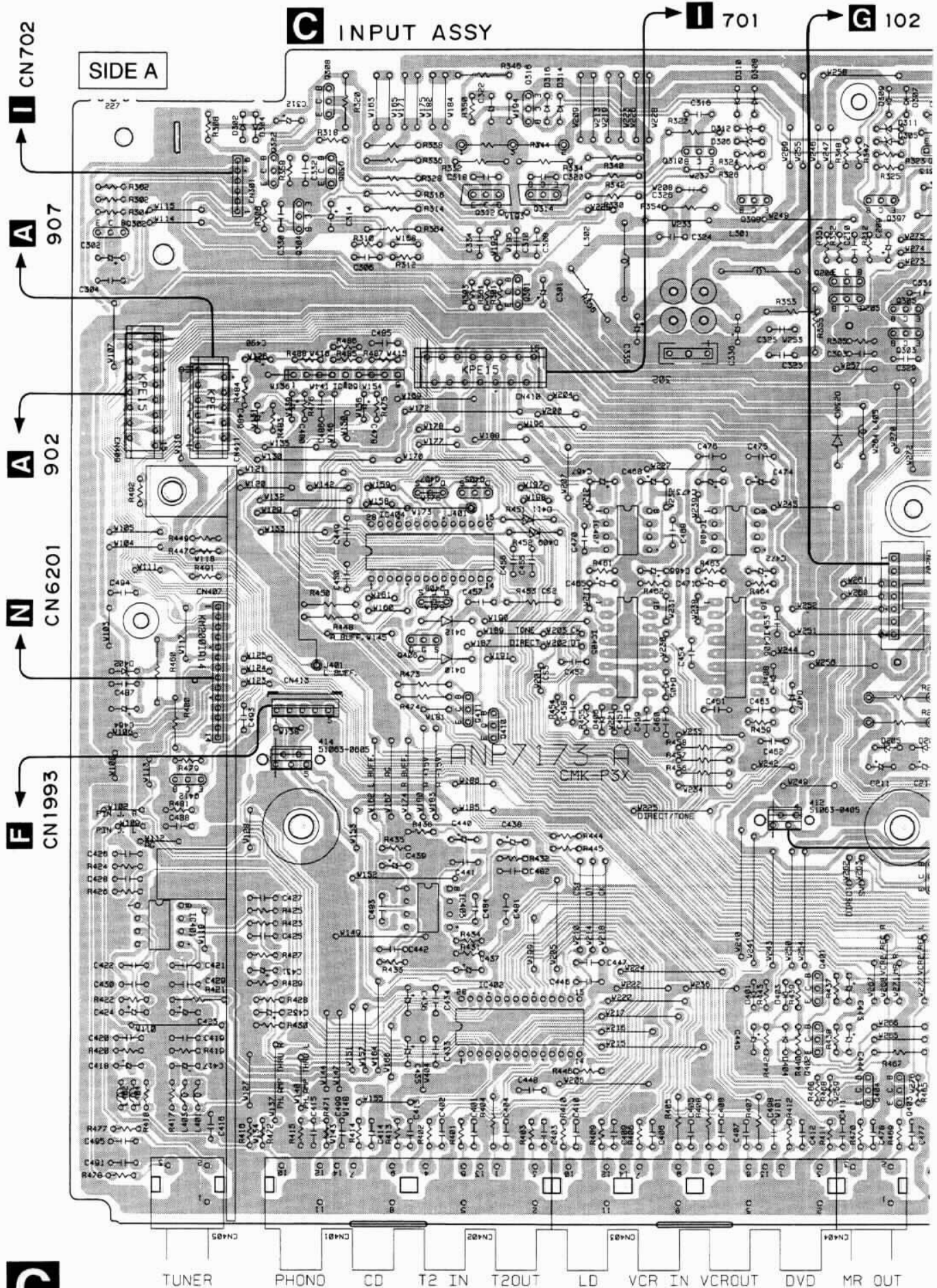


17
102

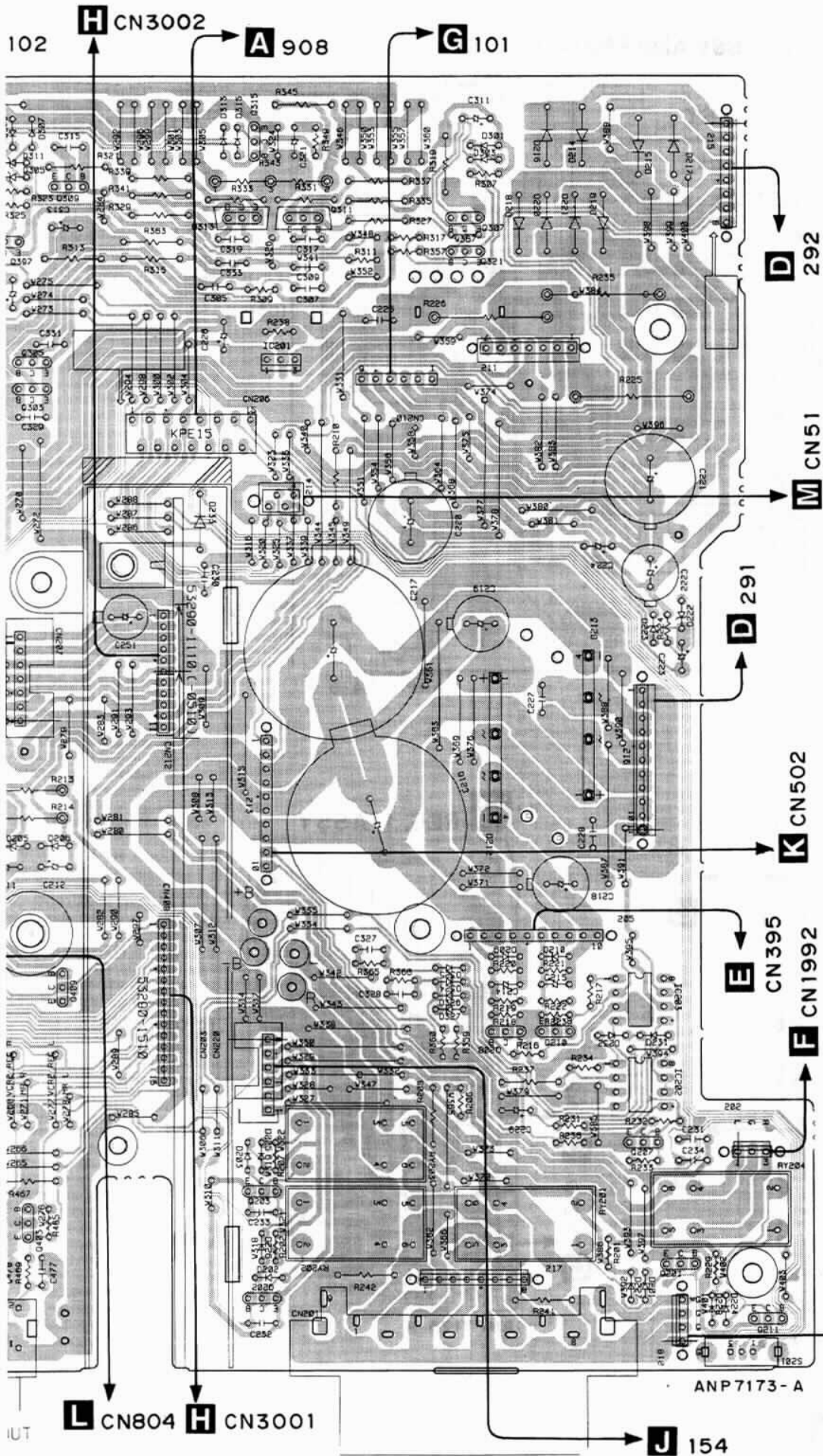
Q904
IC951 Q952 Q951

VSX-D506S, VSX-456

4.4 INPUT ASSY

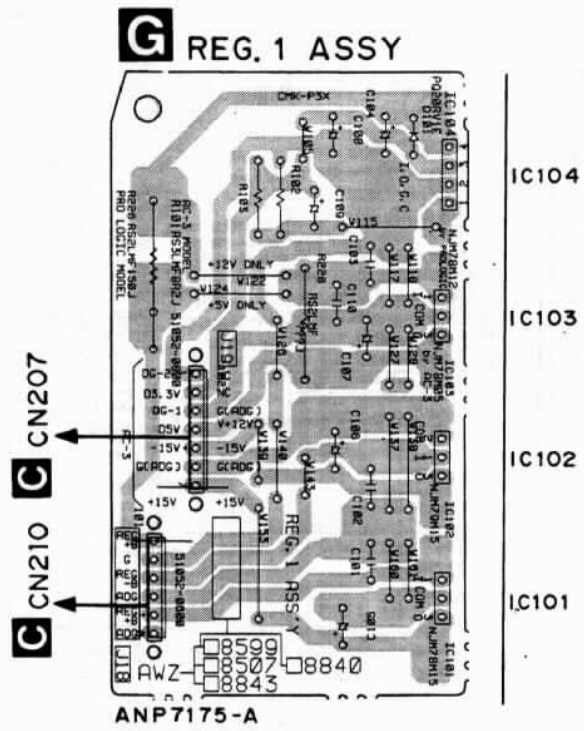
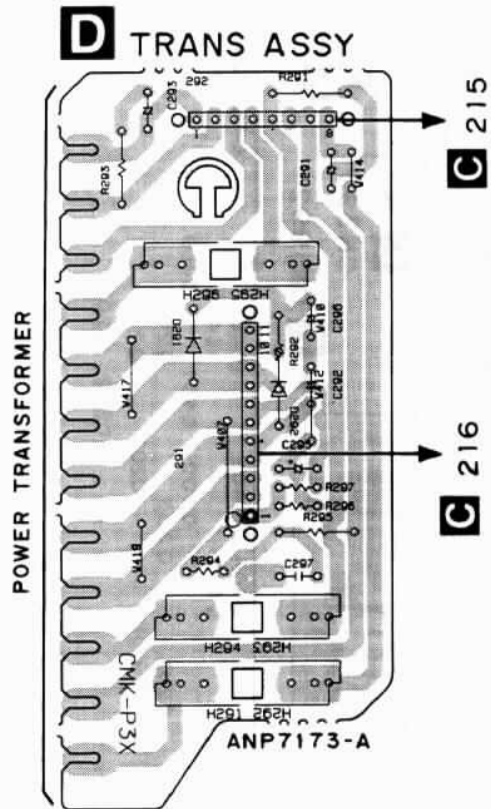
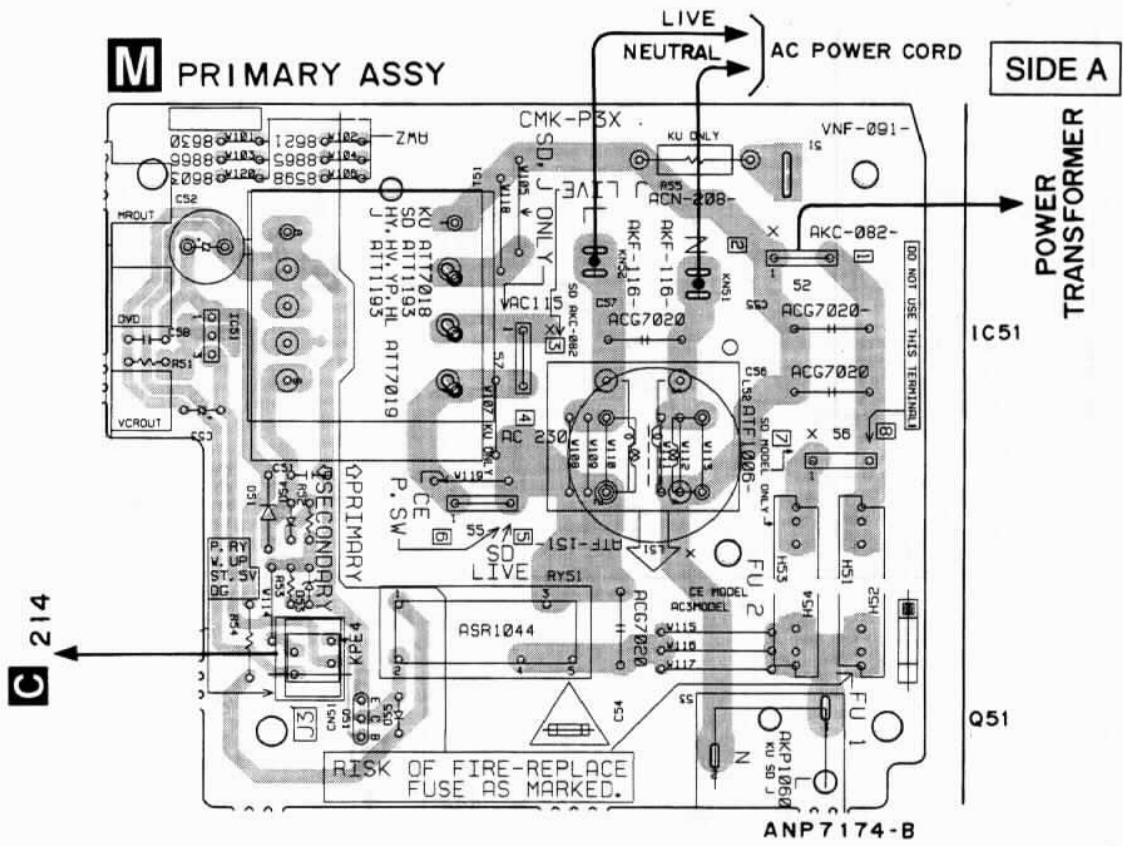


TUNER PHONO CD T2 IN T2OUT LD VCR IN VCR OUT DVD MR OUT

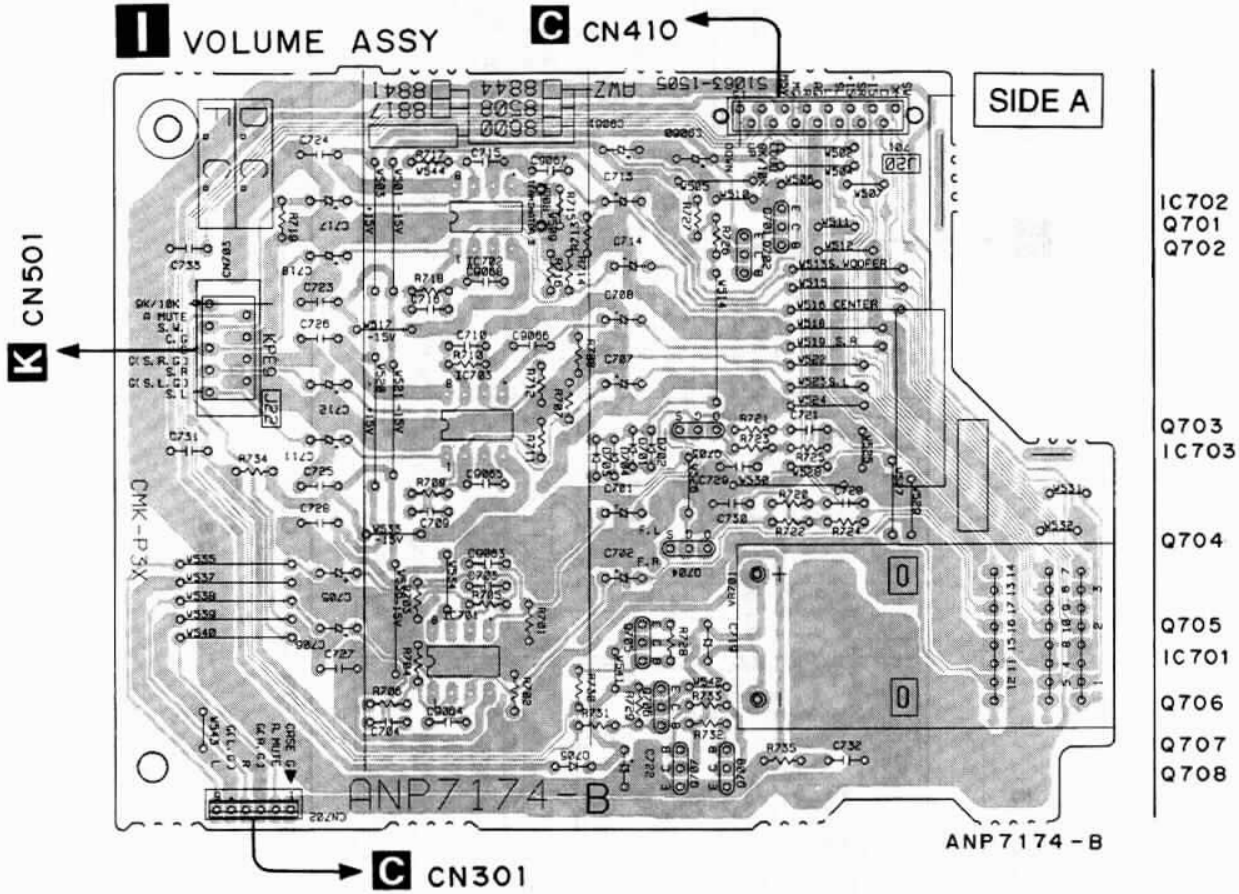


- H** CN3002
 - A** 908
 - G** 101
 - D** 292
 - M** CN51
 - D** 291
 - K** CN502
 - E** CN395
 - F** CN1992
 - L** CN804
 - H** CN3001
 - J** 154
 - J** CN155
 - C** 33
- 102
- 101
- 292
- 291
- 154
- 33
- Q302 Q322
Q304 Q306
Q312 Q316
Q314
Q398 Q310
Q205 Q206 Q397
Q303 Q305 Q309
IC201 Q313 Q315
Q321 Q307
- IC409
IC407
IC408
IC405
IC406
- Q412 Q411 Q406 Q408 IC404 Q407
Q410 Q405 IC407
IC408
- IC401
IC403
Q402 Q401 Q409
Q208 Q210
Q202 Q203 Q207
Q211 Q201
IC202 IC203
- ANP7173-A

4.5 TRANS ASSY, REG.1 ASSY AND PRIMARY ASSY



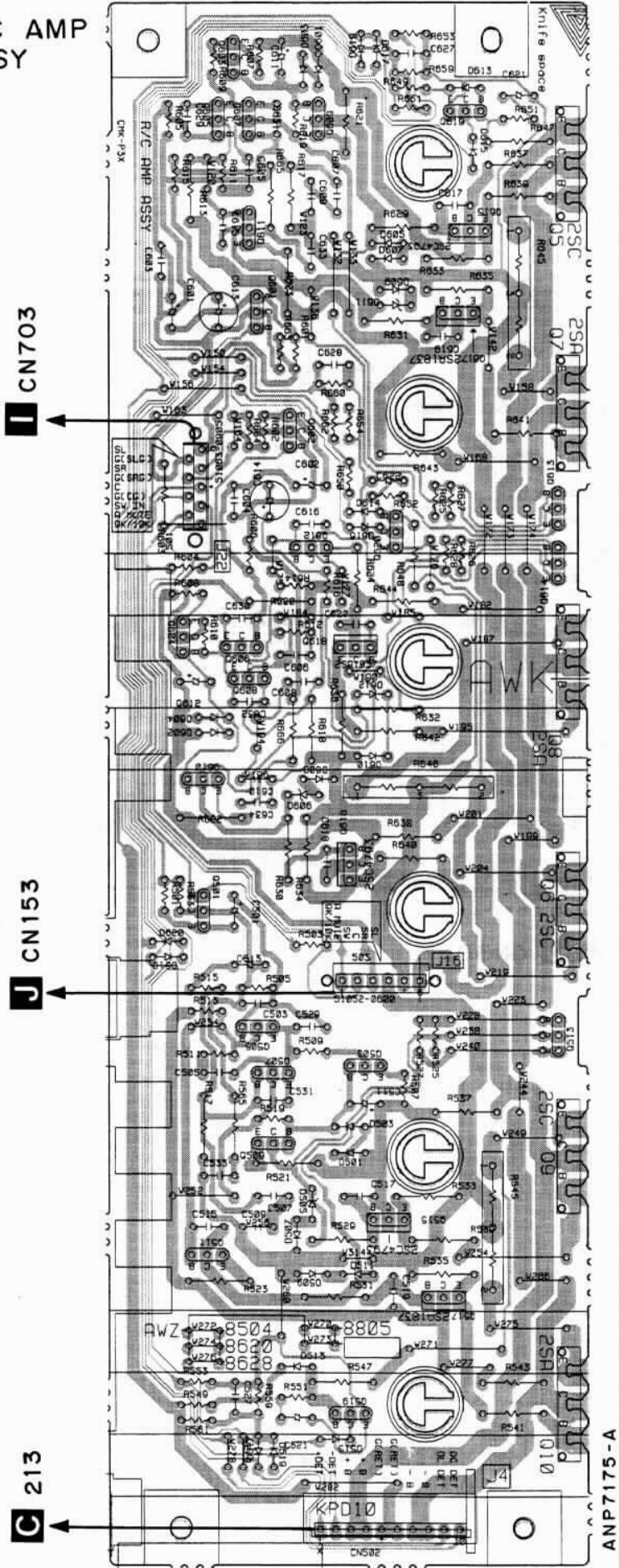
4.6 VOLUME ASSY



VSX-D506S, VSX-456

4.7 R/C AMP ASSY

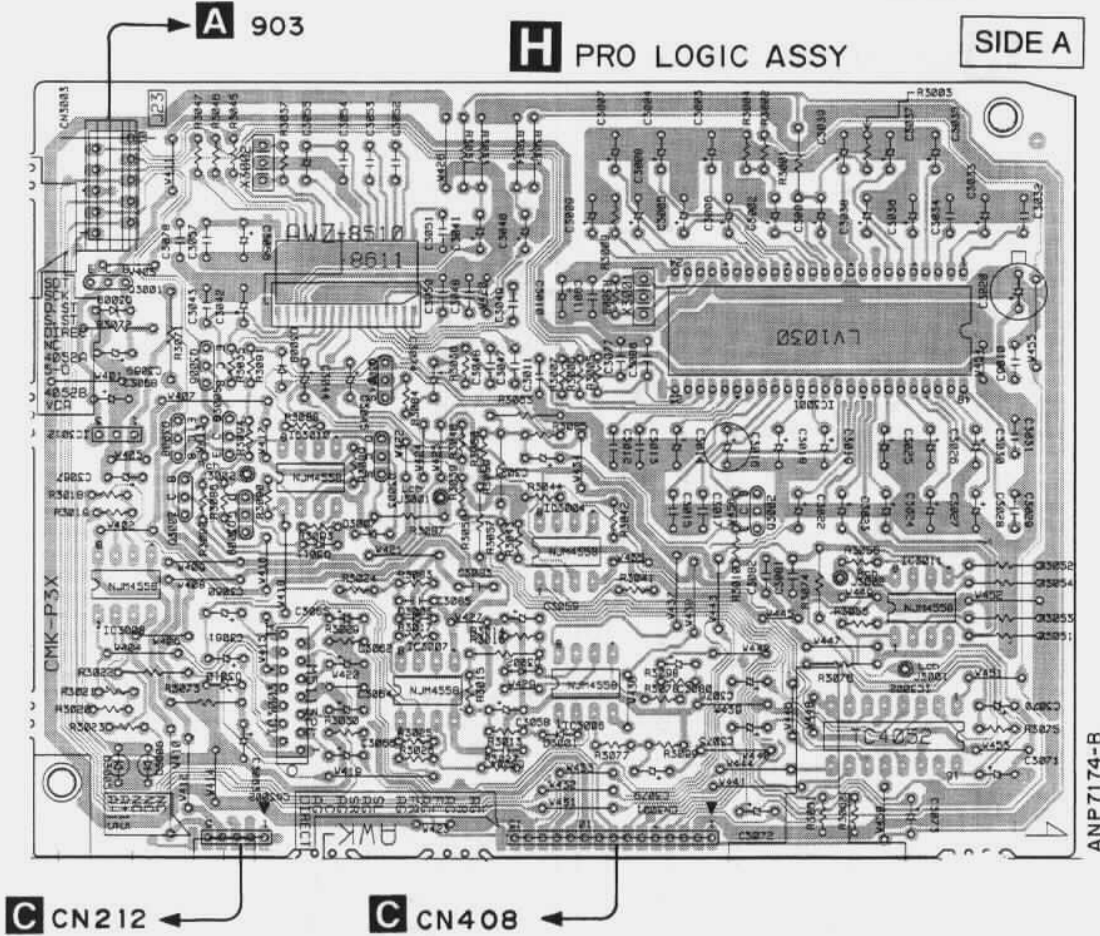
K R/C AMP ASSY



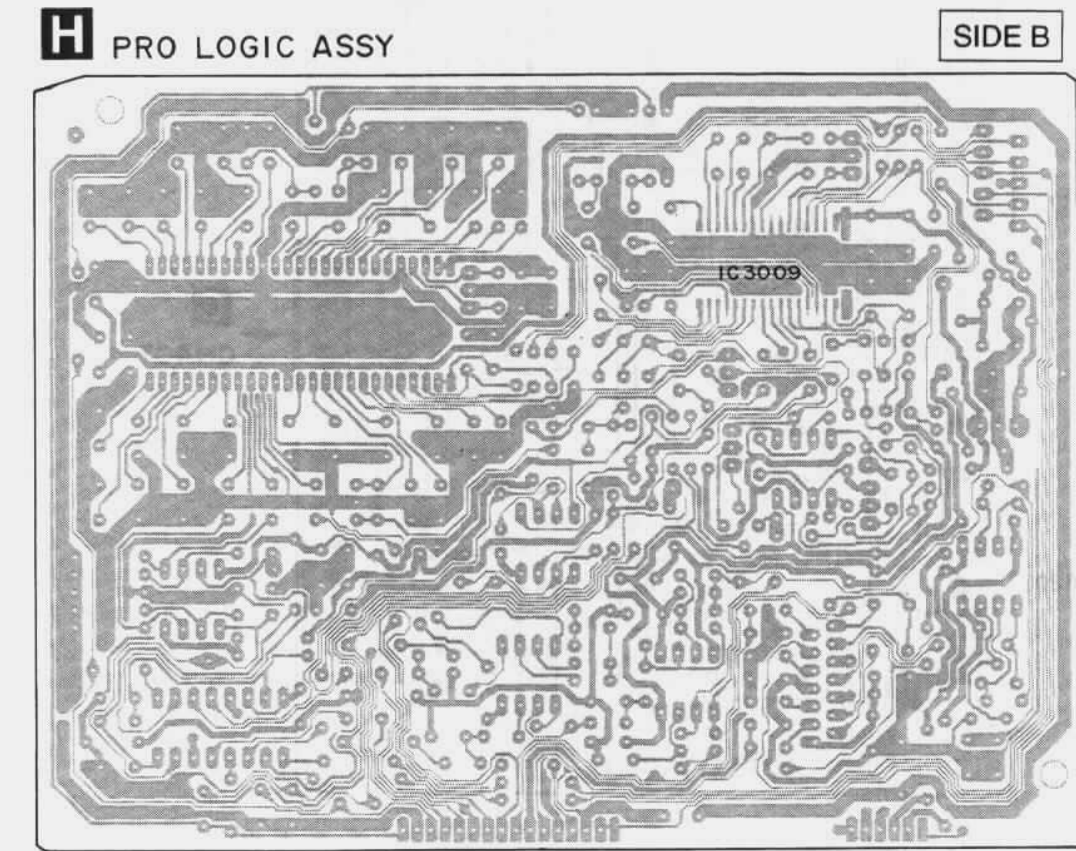
Q519	Q511	Q509	Q507	Q505	Q501	Q610	Q604	Q602	Q601	Q611	Q605	Q603
Q517	Q515	Q503	Q513	Q6	Q616	Q618	Q606	Q612	Q617	Q615	Q607	Q609
Q10	Q9	Q8	Q7	Q614	Q613	Q614	Q613	Q7	Q8	Q7	Q5	Q5



4.8 PRO LOGIC ASSY

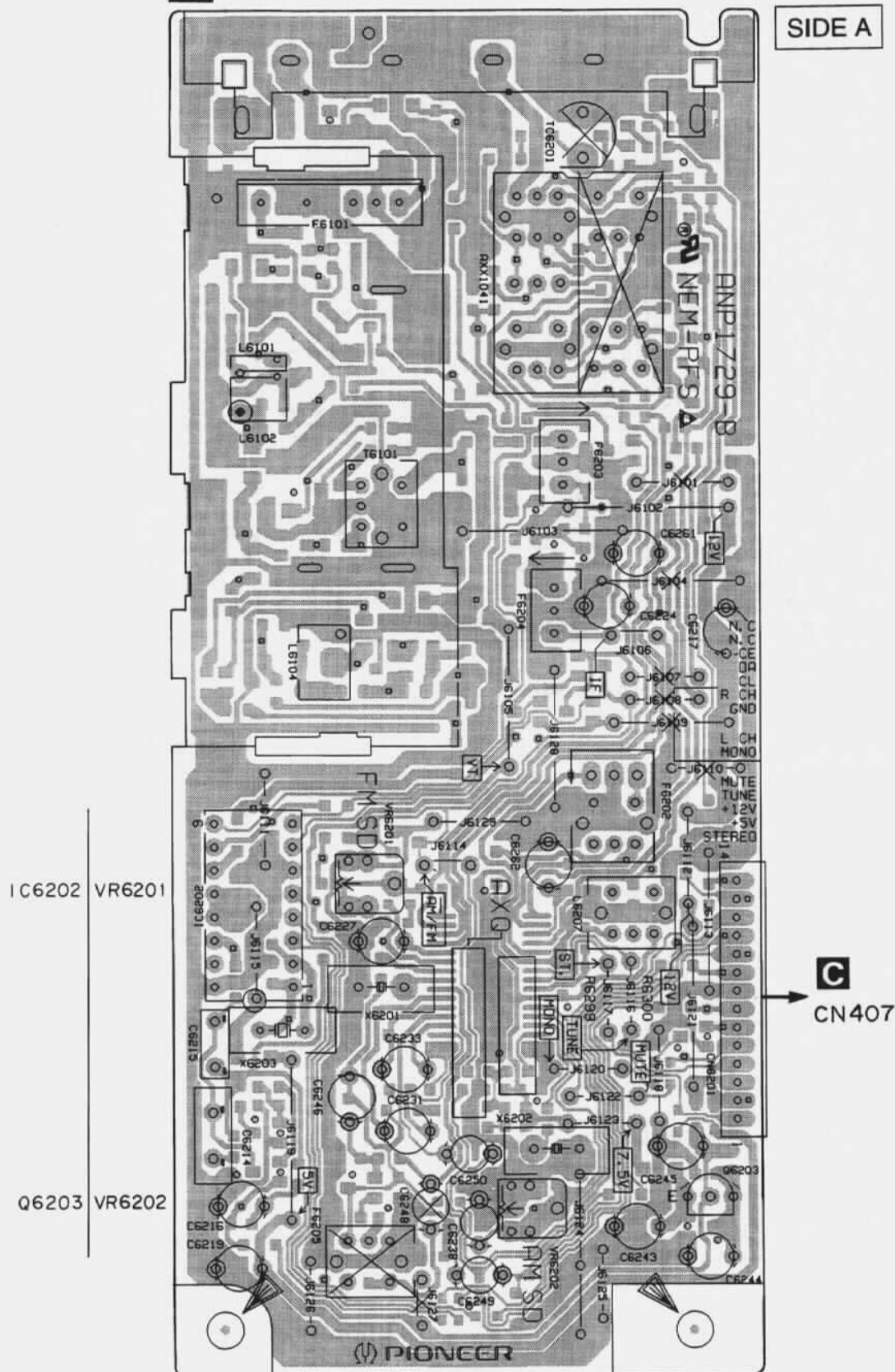


- IC 3008 IC 3012 Q 3001
- Q3002 Q3008 Q3006
- Q3009 Q3005
- IC 3003 IC 3010
- IC 3007 IC 3004 Q3003 Q3004
- IC 3002 IC 3011 Q3002 IC 3001



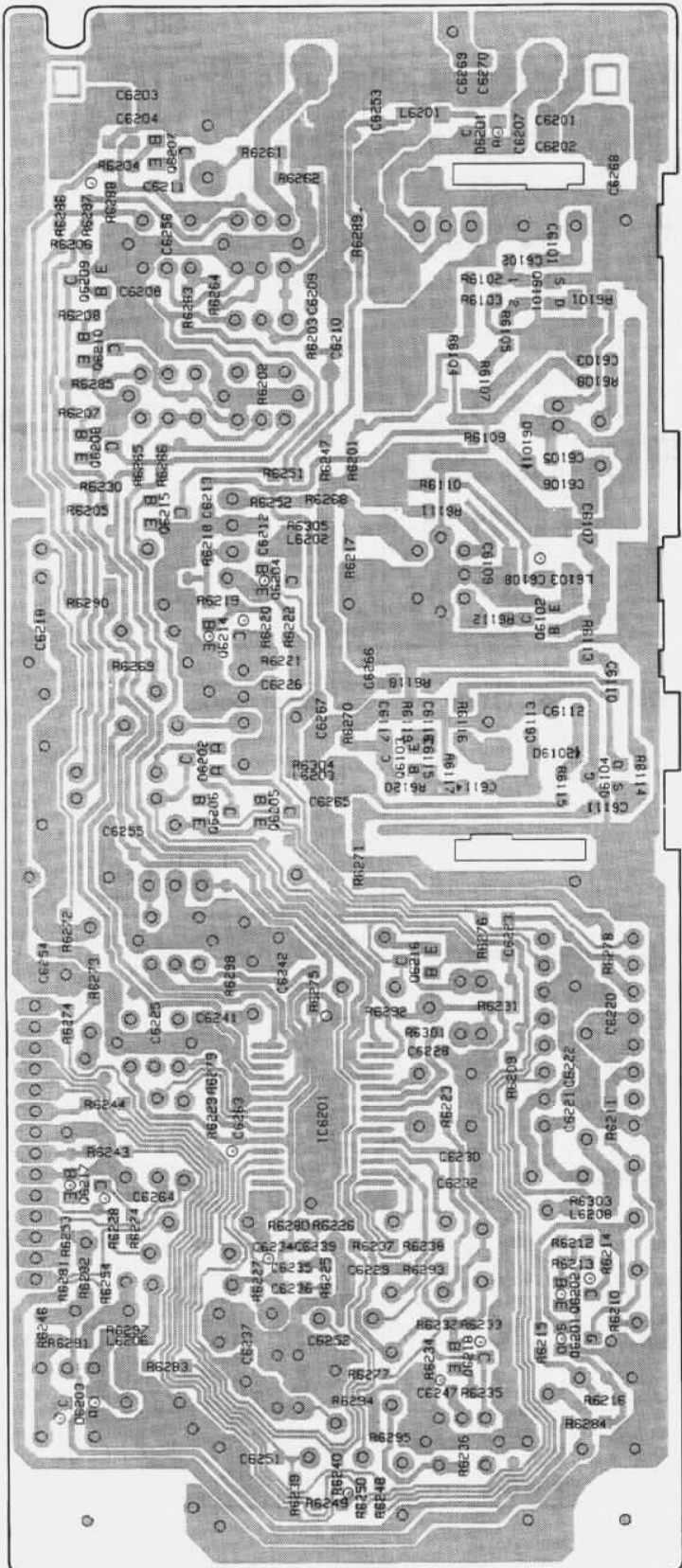
4.9 FM/AM TUNER MODULE

N FM/AM TUNER MODULE



N FM/AM TUNER MODULE

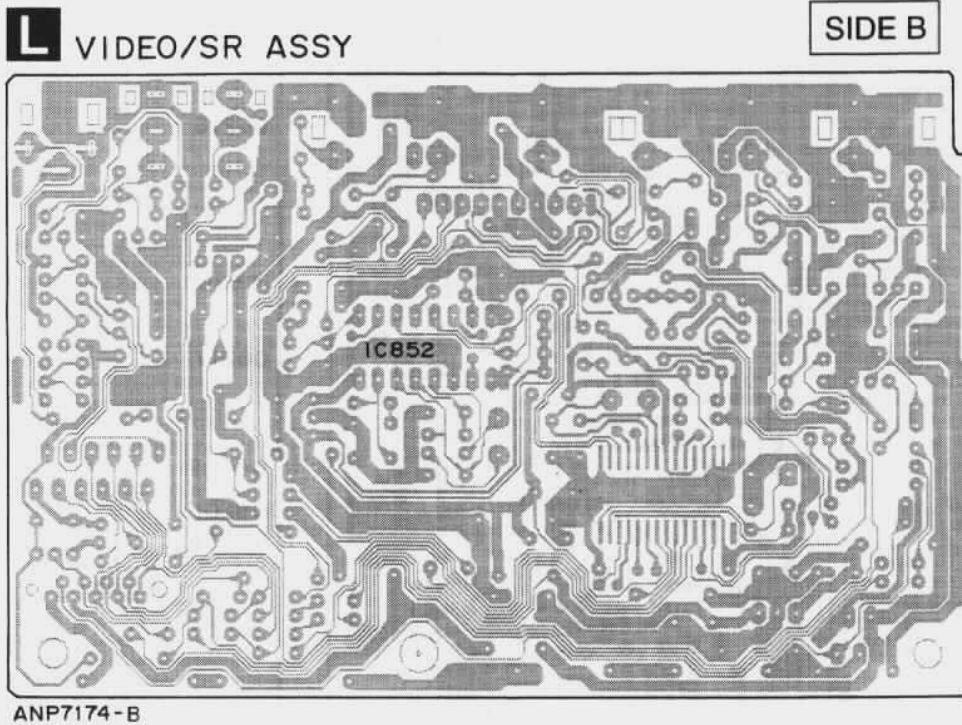
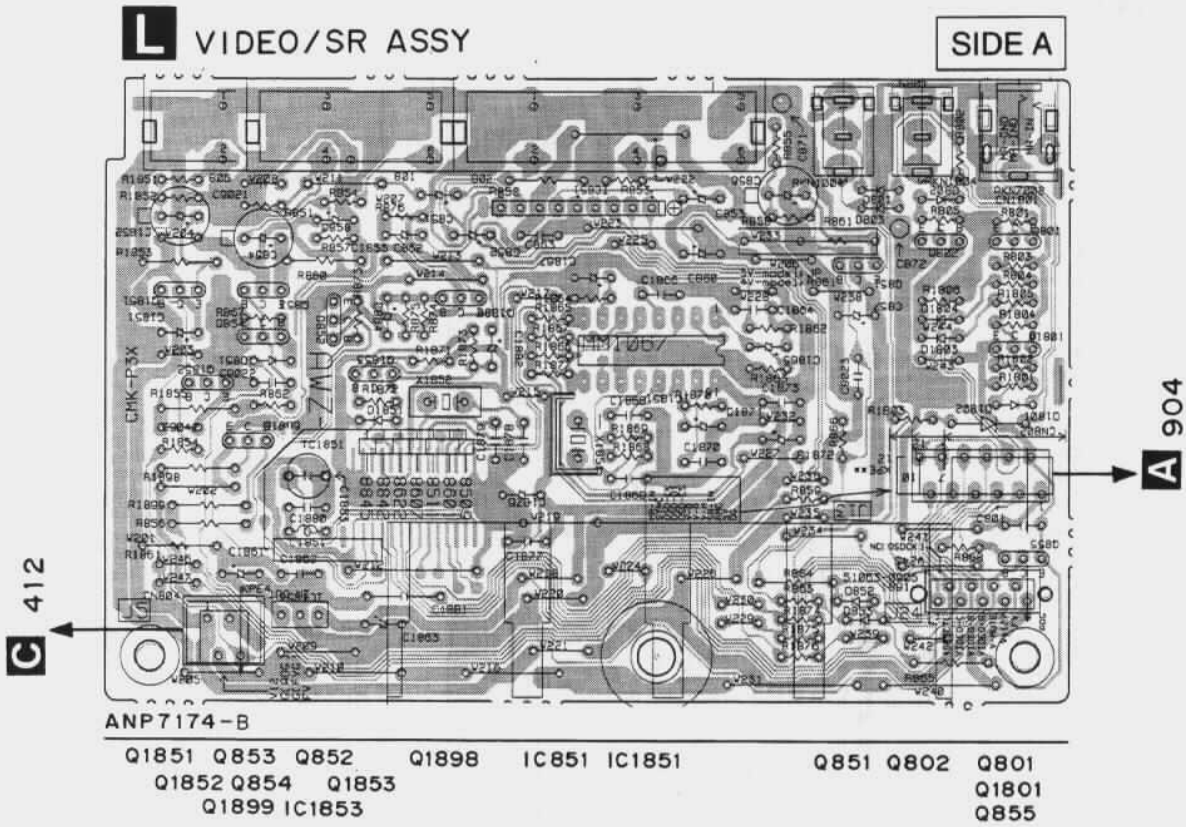
SIDE B



- Q6207
- Q6209
- Q6101
- Q6210
- Q6208
- Q6215
- Q6204
- Q6102
- Q6214
- Q6103
- Q6104
- Q6206
- Q6205
- Q6216
- IC6201
- Q6217
- Q6202
- Q6201
- Q6218

(ANP1729 - B)

4.10 VIDEO/SR ASSY



5. PCB 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.
 - 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 $\rightarrow 56 \times 10^1 \rightarrow 561$ RD1/APU $\boxed{561} J$
 47 k Ω $\rightarrow 47 \times 10^3 \rightarrow 473$ RD1/APU $\boxed{473} J$
 0.5 Ω $\rightarrow R50$ RN2H $\boxed{R50} K$
 1 Ω $\rightarrow 1R0$ RS1P $\boxed{1R0} K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
 5.62 k Ω $\rightarrow 562 \times 10^1 \rightarrow 5621$ RN1/APC $\boxed{5621} F$

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	PCB Assemblies	Part No.				Remarks
		VSX-D506S		VSX-456		
		KUXJI	KCXJI	KUXJI	KCXJI	
NSP	MOTHER ASSY	AWK7341	AWK7341	AWK7341	AWK7341	
NSP	└ MOS FET ASSY	AWZ8497	AWZ8497	AWZ8497	AWZ8497	
	└ TRANS ASSY	AWZ8593	AWZ8593	AWZ8593	AWZ8593	
	└ INPUT ASSY	AWZ8609	AWZ8609	AWZ8609	AWZ8609	
	FRONT & R/C AMP ASSY	AWK7342	AWK7342	AWK7333	AWK7333	
NSP	└ POWER SWITCH ASSY	AWZ8501	AWZ8501	AWZ8595	AWZ8595	
NSP	└ FRONT INPUT ASSY	AWZ8502	AWZ8502	AWZ8596	AWZ8596	
NSP	└ R/C SPEAKER ASSY	AWZ8597	AWZ8597	AWZ8597	AWZ8597	
	└ REG. 1 ASSY	AWZ8599	AWZ8599	AWZ8599	AWZ8599	
	└ FL/U-COM ASSY	AWZ8610	AWZ8610	AWZ8594	AWZ8594	
	└ R/C AMP ASSY	AWZ8805	AWZ8805	AWZ8805	AWZ8805	
NSP	COMPLEX ASSY	AWK7343	AWK7343	AWK7334	AWK7334	
	└ VIDEO/SR ASSY	AWZ8509	AWZ8509	AWZ8601	AWZ8601	
	└ PRIMARY ASSY	AWZ8598	AWZ8598	AWZ8598	AWZ8598	
NSP	└ VOLUME ASSY	AWZ8600	AWZ8600	AWZ8600	AWZ8600	
	└ PRO LOGIC ASSY	AWZ8611	AWZ8611	AWZ8510	AWZ8510	
	FM/AM TUNER MODULE	AXQ7219	AXQ7219	AXQ7219	AXQ7219	

■ CONTRAST OF PCB ASSEMBLIES

B POWER SWITCH ASSY

AWZ8595, AWZ8501 have the same construction except for the following.

Mark	Symbol & Description	Part No.		Remarks
		AWZ8501	AWZ8595	
S985		ASG1034	Not used	

F FRONT INPUT ASSY

AWZ8596, and AWZ8502 have the same construction except for the following.

Mark	Symbol & Description	Part No.		Remarks
		AWZ8502	AWZ8596	
	C1984-C1986	CGCYX473M16	Not used	
	R1981, R1982	RD1/4PU331J	Not used	
	R1983, R1984	RD1/4PU474J	Not used	
	R1985	RD1/4PU750J	Not used	
	CN1981	AKB7085	Not used	
	CN1993	KM250MA5	Not used	

VSX-D506S, VSX-456

A FL/U-COM ASSY

AWZ8594, AWZ8610 have the same construction except for the following.

Mark	Symbol & Description	Part No.		Remarks
		AWZ8610	AWZ8594	
	D920	1SS252	Not used	

L VIDEO/SR ASSY

AWZ8601 and AWZ8509 have the same construction except for the following.

Mark	Symbol & Description	Part No.		Remarks
		AWZ8509	AWZ8601	
	Q851, Q852, Q1898, Q1899 C857 C862 C864 C1853 R855 R856, R866, R876, R1899 R861 R873, R1898 R874, R875	2SC1740S CEAS470M25 Not used CEAS4R7M50 CEANP4R7M50 RD1/4PU680J RD1/4PU102J RD1/4PM331J RD1/4PM471J RD1/4PU473J	Not used Not used CGCYX103M16 Not used Not used RD1/4PU750J Not used Not used Not used Not used	

H PRO LOGIC ASSY

AWZ8510 and AWZ8611 have the same construction except for the following.

Mark	Symbol & Description	Part No.		Remarks
		AWZ8611	AWZ8510	
	IC3009 Q3001 Q3002 Q3004 Q3005, Q3006 D3008 D3009 C3040, C3041 C3042, C3044, C3045 C3043 C3046 C3047, C3053 C3048, C3054 C3049, C3052 C3050, C3051 C3055 C3056 C3057 C3069 C3074 R3010 R3031, R3032 R3033, R3034 R3035, R3036 R3037 R3039, R3040 R3041, R3042 R3043, R3044 R3045, R3046, R3047 R3057, R3058 R3059, R3060 R3072 R3084 R3091 R3094 X3002	M65849FP 2SD468 Not used 2SK246 KRC103M 1SS252 MTZJ5.1C CEAS1R0M50 CEAS2R2M50 CKCYB471K50 CFTXA683J50 CQMA222J50 CFTXA103J50 CFTXA683J50 CFTXA104J50 CEANP1R0M50 CEAS470M10 CGCYX104M25 CEAS470M16 CEANL4R7M50 Not used RD1/4PU752J RD1/4PU103J RD1/4PU473J RD1/4PU105J RD1/4PU224J RD1/4PU102J RD1/4PU102J RD1/4PU102J Not used Not used Not used RD1/4PU681J RD1/4PU104J RD1/4PU475J RD1/4PU223J ASS7014	Not used Not used 2SA933S Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used RD1/4PU472J Not used Not used Not used Not used Not used RD1/4PU682J RD1/4PU752J Not used RD1/4PU683J RD1/4PU753J Not used Not used Not used Not used Not used Not used	

PARTS LIST FOR VSX-D506S

Mark	No.	Description	Parts No.
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E MOS FET ASSY

SEMICONDUCTORS

Q395	POWER MOS FET	IRF540A
Q396	POWER MOS FET	IRF9540A

RESISTORS

△ R391, R392	CARBON FILM RESISTOR	RD1/4PMF101J
Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

D TRANS ASSY

SEMICONDUCTORS

D291, D292	DIODE	S5688G
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CAPACITORS

C295	ELECT. CAPACITOR	CEAS470M50
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RESISTORS

All Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
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OTHERS

H291-H294	FUSE CLIP	AKR1004
	CABLE HOLDER(11P)	51052-1100
	CABLE HOLDER(8P)	51052-0800

C INPUT ASSY

SEMICONDUCTORS

IC201	REGULATOR IC	NJM78M56FA
IC202, IC203	OP-AMP IC	NJM4558D-D
IC401	OP-AMP IC	NJM4558D-D
IC402	ANALOG SWITCH IC	TC9273N-007
IC403	OP-AMP IC	NJM4558D-D

IC409	OP-AMP IC	UPC4570HA
Q201-Q203	TRANSISTOR	KRC101M
Q205, Q206	TRANSISTOR	2SC1740S
Q207	TRANSISTOR	2SC2878
Q208	TRANSISTOR	2SC2705

Q210	TRANSISTOR	2SA1145
Q211	TRANSISTOR	KRC101M
Q301, Q302	TRANSISTOR	2SC2878
Q303-Q306	TRANSISTOR	2SA992
△ Q307, Q308	TRANSISTOR	2SA1321

△ Q309, Q310	TRANSISTOR	2SC3334
△ Q311, Q312	TRANSISTOR	2SC4793
△ Q313, Q314	TRANSISTOR	2SA1837
Q315, Q316	TRANSISTOR	2SC2240
Q321, Q322	TRANSISTOR	2SA970

Q397, Q398	TRANSISTOR	2SC1740S
D201-D203	DIODE	1SS252
D209, D210	ZENNER DIODE	MTZJ18B
D212, D213	DIODE	D5SBA20
D214-D217	DIODE	S5688G

D222	ZENER DIODE	MTZJ4.3C
D223	ZENNER DIODE	MTZJ18B
D224	DIODE	1SS252
D230-D233	DIODE	1SS252
D301-D304	DIODE	1SS252

Mark	No.	Description	Parts No.
------	-----	-------------	-----------

D313-D316	DIODE	1SS252
D324-D327	DIODE	1SS252
D402	ZENER DIODE	MTZJ5.1B

COILS AND FILTERS

L301, L302	COIL	ATH1004
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SWITCHES AND RELAYS

S201	SLIDE SWITCH	ASH1027
RY201-RY204	RELAY	ASR7001

CAPACITORS

C209	ELECT. CAPACITOR	CEAS221M10
C210	CERAMIC CAPACITOR	CKCYB102K50
C214, C215	ELECT. CAPACITOR	CEAS1R0M50
C216, C217	ELECT. CAPACITOR (8200µF/71V)	ACH7018
C218, C219	ELECT. CAPACITOR	CEAS101M2A

C221	ELECT. CAPACITOR	CEAS222M35
C222	ELECT. CAPACITOR	CEAS102M35
C223	ELECT. CAPACITOR	CEAS470M16
C224	ELECT. CAPACITOR	CEAS470M25
C225	CERAMIC CAPACITOR	CKCYF103Z50

C226	ELECT. CAPACITOR	CEAS101M10
C227, C228	CKA (0.01µF/AC250V)	ACG1005
C229	ELECT. CAPACITOR	CEAS4R7M50
C301, C302	ELECT. CAPACITOR	CEAS2R2M50
C303, C304	CERAMIC CAPACITOR	CCCSL151J50

C305, C306	CERAMIC CAPACITOR	CKCYB102K2H
C307, C308	CERAMIC CAPACITOR	CCCSL100D2H
C311, C312	ELECT. CAPACITOR	CEAS101M10
C313, C314	ELECT. CAPACITOR	CEAS101M25
C315, C316	CERAMIC CAPACITOR	CCCSL5R0C2H

C317-C320	CERAMIC CAPACITOR	CCCSL101K2H
C321, C322	ELECT. CAPACITOR	CEANP2R2M50
C323, C324	AUDIO FILM CAPACITOR	CFTXA473J50
C335, C336	ELECT. CAPACITOR	CEAS4R7M2A
C417, C418	ELECT. CAPACITOR	CEAS100M50

C423, C424	ELECT. CAPACITOR	CEAS101M25
C425, C426	PLASTIC FILM CAPACITOR	CQMA822J50
C427, C428	PLASTIC FILM CAPACITOR	CQMA242J50
C429, C430	CERAMIC CAPACITOR	CGCYX473M25
C431, C432	ELECT. CAPACITOR	CEAS4R7M50

C433, C434	CERAMIC CAPACITOR	CGCYX473M25
C437, C438	ELECT. CAPACITOR	CEAS2R2M50
C439, C440	ELECT. CAPACITOR	CEAS470M25
C441, C442	CERAMIC CAPACITOR	CGCYX473M25
C446-C448	CERAMIC CAPACITOR	CCCSL101J50

C464	ELECT. CAPACITOR	CEAS470M25
C479, C480	ELECT. CAPACITOR	CEAS4R7M50
C485, C486	CERAMIC CAPACITOR	CKCYF103Z50
C487	CERAMIC CAPACITOR	CGCYX473M25
C489, C490	ELECT. CAPACITOR	CEAS4R7M50

C491	CERAMIC CAPACITOR	CGCYX103M16
C495	CERAMIC CAPACITOR	CGCYX104M12

VSX-D506S, VSX-456

Mark	No.	Description	Parts No.
RESISTORS			
	R241,R242	CARBON FILM RESISTOR	RD1/4PMF103J
	R313,R314	CARBON FILM RESISTOR	RD1/4PM362J
	R315,R316	CARBON FILM RESISTOR	RD1/4PM104J
	R319,R320	CARBON FILM RESISTOR	RD1/4LMF680J
Δ	R321,R322	FUSIBLE RESISTOR	RF1/4PS101J
Δ	R327-R334	CARBON FILM RESISTOR	RD1/4PMF101J
Δ	R335,R336	FUSIBLE RESISTOR	RF1/4PS8R2J
Δ	R337-R340	FUSIBLE RESISTOR	RF1/4PS4R7J
Δ	R341,R342	FUSIBLE RESISTOR	RF1/4PS8R2J
Δ	R343,R344	FUSIBLE RESISTOR (0.33Ω,5W)	ACN-139
Δ	R345,R346	CARBON FILM RESISTOR	RD1/4PMF472J
Δ	R353,R354	CARBON FILM RESISTOR	RRD1/4PMF100J
	R355,R356	METAL OXIDE RESISTOR	RS1LMF100J
	R460	METAL OXIDE RESISTOR	RS1PMF181J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

	CABLE HOLDER(3P)	51052-0300
	CABLE HOLDER(10P)	51052-1000
	CABLE HOLDER(4P)	51063-0405
	CABLE HOLDER(8P)	51052-0800
	CABLE HOLDER(11P)	51052-1100
	CABLE HOLDER(4P)	51052-0400
	GROUND PLATE	VNF-091
	PIN JACK(4P)	AKB7014
	CABLE HOLDER(4P)	51063-0405
CN201	SPEAKER TERMINAL 8-P	AKE7006
CN206	CONNECTOR(15P)	KPE15
CN212	5P PLUG	KM200TA5
CN301	6P PLUG	KM200TA6
CN401,CN402	PIN JACK(4P)	AKB7015
CN404	PIN JACK(4P)	AKB7015
CN407	14P PLUG	KM200LA14
CN408	15P PLUG	KM200TA15
CN409,CN410	CONNECTOR(15P)	KPE15
CN411	CONNECTOR(11P)	KPE11
CN413	PLUG 5-P	KM250MA5

B POWER SW ASSY

SEMICONDUCTORS

D981	LED(RED)	AEL1065
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SWITCHES AND RELAYS

S981-S986	SWITCH	ASG1034
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RESISTORS

R981	CARBON FILM RESISTOR	RD1/4PU271J
------	----------------------	-------------

OTHERS

CN981	CONNECTOR(7P)	KPE7
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F FRONT INPUT ASSY

CAPACITORS

C1984-C1986	CERAMIC CAPACITOR	CGCYX473M16
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RESISTORS

R1991, R1992	METAL OXIDE RESISTOR	RS2LMF331J
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OTHERS

CN1981	PIN JACK(3P)	AKB7085
CN1991	JACK	AKN7001
CN1993	PLUG 5-P	KM250MA5

J R/C SPEAKER ASSY

SEMICONDUCTORS

Q151	TRANSISTOR	2SC1740S
Q163	TRANSISTOR	2SC2878
D151,D152	DIODE	1SS252

COILS AND FILTERS

L154-L156	COIL	ATH1004
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SWITCHES AND RELAYS

RY151,RY152	RELAY	ASR7001
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CAPACITORS

C161,C163	AUDIO FILM CAPACITOR	CFTXA473J50
C165	AUDIO FILM CAPACITOR	CFTXA473J50

RESISTORS

R183-R185	CARBON FILM RESISTOR	RD1/4PMF100J
R186-R188	METAL OXIDE RESISTOR	RS1LMF100J
Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

CN151	CABLE HOLDER(4P)	51052-0400
CN152	SPEAKER TERMINAL 6-P 2P PIN JACK	AKE7041 AKB7001

G REG.1 ASSY

SEMICONDUCTORS

IC101	REGULATOR IC	NJM78M15FA
IC102	REGULATOR IC	NJM79M15FA
IC103	REGULATOR IC	NJM78M12FA

CAPACITORS

C101-C103	CERAMIC CAPACITOR	CKCYF103Z50
C105-C107	ELECT. CAPACITOR	CEAS101M16

RESISTORS

Δ R226	METAL OXIDE RESISTOR	RS2LMF150J
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OTHERS

	CABLE HOLDER(6P)	51052-0600
	CABLE HOLDER(7P)	51052-0700

A FL/U-COM ASSY

SEMICONDUCTORS

IC1901	OP-AMP IC	UPC4570C
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Mark	No.	Description	Parts No.
	IC1902	OP-AMP IC	NJM4558D-D
	IC901	CONTROL MCU	PDG197A
	Q901	TRANSISTOR	KRC101M
	Q902	TRANSISTOR	KRC103M
	Q903	TRANSISTOR	KRC101M
	Q904	TRANSISTOR	2SA933S
	Q905,Q906	TRANSISTOR	2SC1740S
	D901-D912	DIODE	1SS252
	D914-D918	DIODE	1SS252
	D920	DIODE	1SS252
	D923,D924	DIODE	1SS252

COILS AND FILTERS

L901	AXIAL INDUCTOR	LAU2R2J
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SWICHS AND RELAYS

S903-S911	SWITCH	ASG1034
S913-S916	SWITCH	ASG1034
S919-S921	SWITCH	ASG1034
S922	ROTARY ENCODER	ASX7001

CAPACITORS

C1903,C1904	AUDIO FILM CAPACITOR	CFTXA473J50
C1905,C1906	AUDIO FILM CAPACITOR	CFTXA274J50
C1907,C1908	AUDIO FILM CAPACITOR	CFTXA123J50
C1909,C1910	AUDIO FILM CAPACITOR	CFTXA563J50
C1911,C1912	ELECT. CAPACITOR	CEAS100M50
C1915-C1918	ELECT. CAPACITOR	CEAS100M50
C1919,C1920	CERAMIC CAPACITOR	CGCYX103M16
C1921,C1922	ELECT. CAPACITOR	CEAS2R2M50
C901	CERAMIC CAPACITOR	CKPUYY103M16
C902	CAPACITOR(???)	ACH7058
C903	ELECT. CAPACITOR	CEAS221M10
C904	CERAMIC CAPACITOR	CKPUYY103M16
C905,C906	CERAMIC CAPACITOR	CKPUYF473Z16
C907	ELECT. CAPACITOR	CEAS2R2M50
C908	CERAMIC CAPACITOR	CGCYX104M16
C909	ELECT. CAPACITOR	CEAS2R2M50
C910	AXIAL CAPACITOR	CKPYF103Z50
C911	ELECT. CAPACITOR	CEAS101M25
C912	ELECT. CAPACITOR	CEAS470M50
C913	ELECT. CAPACITOR	CEAS470M25
C914	CERAMIC CAPACITOR	CKCYF103Z50
C917	AXIAL CAPACITOR	CKPUYB101K50
C918	CERAMIC CAPACITOR	CKPUYY103M16
C919	CERAMIC CAPACITOR	CKPUYB102K50
C931	AXIAL CAPACITOR	CKPUYB101K50
C932,C933	AXIAL CAPACITOR	CCPUSL220J50
C934-C939	AXIAL CAPACITOR	CKPUYB101K50
C940	ELECT. CAPACITOR	CEAS470M16
C941,C942	AXIAL CAPACITOR	CKPUYB101K50
C943,C944	CERAMIC CAPACITOR	CKPUYF103Z25
C945,C965	CERAMIC CAPACITOR	CKPUYY103M16

RESISTORS

R919	RESISTOR ARRAY (10K)	RA8T103J
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Mark	No.	Description	Parts No.
	VR1901,VR1902	VARIABLE RESISTOR (100KΩ)	ACS7020
	VR1903	VARIABLE (500-X1)	ACS1016
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

	REMOTE RECEIVER UNIT	GP1U28X
	CABLE HOLDER(15P)	51063-1505
	CABLE HOLDER(10P)	51063-1005
	CABLE HOLDER(12P)	51063-1205
	CABLE HOLDER(7P)	51063-0705
	CABLE HOLDER(11P)	51063-1105
	CABLE HOLDER(15P)	51063-1505
V901	FL TUBE	AAV7035
X901	CERAMIC RESONATOR (7.70MHz)	ASS1055

K R/C AMP ASSY

SEMICONDUCTORS

	Q501	TRANSISTOR	2SC2878
	Q503	TRANSISTOR	2SA970
	Q505,Q507	TRANSISTOR	2SA992
	Q509	TRANSISTOR	2SA1321
	Q511	TRANSISTOR	2SC3334
Δ	Q513	TRANSISTOR	2SC1740S
Δ	Q515	POWER TR	2SC4793
Δ	Q517	POWER TR	2SA1837
	Q519	TRANSISTOR	2SC2240
	Q601,Q602	TRANSISTOR	2SC2878
	Q603,Q604	TRANSISTOR	2SA970
	Q605-Q608	TRANSISTOR	2SA992
	Q609,Q610	TRANSISTOR	2SA1321
	Q611,Q612	TRANSISTOR	2SC3334
Δ	Q613,Q614	TRANSISTOR	2SC1740S
Δ	Q615,Q616	POWER TRANSISTOR	2SC4793
Δ	Q617,Q618	POWER TRANSISTOR	2SA1837
	Q619,Q620	TRANSISTOR	2SC2240
	D501,D503	DIODE	1SS252
	D513,D515	DIODE	1SS252
	D517,D519	DIODE	1SS252
	D601-D604	DIODE	1SS252
	D613-D620	DIODE	1SS252

CAPACITORS

C501	ELECT. CAPACITOR	CEAS2R2M50
C503	CERAMIC CAPACITOR	CCCSL151J50
C505	CERAMIC CAPACITOR	CKCYB102K2H
C507	CERAMIC CAPACITOR	CCCSL120K2H
C511	ELECT. CAPACITOR	CEAS101M10
C513	ELECT. CAPACITOR	CEAS101M25
C515	CERAMIC CAPACITOR	CCCSL5R0C2H
C517,C519	CERAMIC CAPACITOR	CCCSL101K2H
C521	ELECT. CAPACITOR	CEANP2R2M50
C601,C602	ELECT. CAPACITOR	CEAS2R2M50
C603,C604	CERAMIC CAPACITOR	CCCSL151J50
C605,C606	CERAMIC CAPACITOR	CKCYB102K2H

VSX-D506S, VSX-456

Mark	No.	Description	Parts No.
	C607,C608	CERAMIC CAPACITOR	CCCSL120K2H
	C611,C612	ELECT. CAPACITOR	CEAS101M10
	C613,C614	ELECT. CAPACITOR	CEAS101M25
	C615,C616	CERAMIC CAPACITOR	CCCSL5R0C2H
	C617-C620	CERAMIC CAPACITOR	CCCSL101K2H
	C621,C622	ELECT. CAPACITOR	CEANP2R2M50

RESISTORS

	R517	CARBON FILM RESISTOR	RD1/4PM104J
	R521	CARBON FILM RESISTOR	RD1/4LMF680J
Δ	R523	FUSIBLE RESISTOR	RF1/4PS101J
Δ	R529,R531	CARBON FILM RESISTOR	RD1/4PMF101J
Δ	R533,R535	CARBON FILM RESISTOR	RD1/4PMF101J
Δ	R537	FUSIBLE RESISTOR	RF1/4PS8R2J
Δ	R539,R541	FUSIBLE RESISTOR	RF1/4PS4R7J
Δ	R543	FUSIBLE RESISTOR	RF1/4PS8R2J
Δ	R545	RESISTOR (0.33Ω, 5W)	ACN-139
Δ	R547	CARBON FILM RESISTOR	RD1/4PMF472J
	R617,R618	CARBON FILM RESISTOR	RD1/4PM104J
	R621,R622	CARBON FILM RESISTOR	RD1/4LMF680J
Δ	R623,R624	FUSIBLE RESISTOR	RF1/4PS101J
Δ	R629-R636	CARBON FILM RESISTOR	RD1/4PMF101J
Δ	R637,R638	FUSIBLE RESISTOR	RF1/4PS8R2J
Δ	R639-R642	FUSIBLE RESISTOR	RF1/4PS4R7J
Δ	R643,R644	FUSIBLE RESISTOR	RF1/4PS8R2J
Δ	R645,R646	RESISTOR (0.33Ω, 5W)	ACN-139
Δ	R647,R648	CARBON FILM RESISTOR	RD1/4PMF472J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

	CABLE HOLDER(9P)	51063-0905
	CABLE HOLDER(6P)	51052-0600

VIDEO S/R ASSY

SEMICONDUCTORS

	IC851	VIDEO SEITCH	LA7952
	Q1898, Q1899	TRANSISTOR	SC1740S
	Q801	TRANSISTOR	2SA933S
	Q802	TRANSISTOR	KRC103M
	Q851-Q854	TRANSISTOR	2SC1740S
	Q855	TRANSISTOR	2SA933S
	D801	DIODE	1SS252
	D802	DIODE	1SS252
	D851-D853	DIODE	1SS252

CAPACITORS

	C1853	ELECT. CAPACITOR	CEANP4R7M50
	C801	CERAMIC CAPACITOR	CKCYF103Z50
	C851-C853	ELECT. CAPACITOR	CEAS4R7M50
	C854, C856	ELECT. CAPACITOR	CEAS471M6R3
	C857, C858	ELECT. CAPACITOR	CEAS470M25
	C860	ELECT. CAPACITOR	CEAS470M25
	C863	CERAMIC CAPACITOR	CKCYB102K50
	C864	ELECT. CAPACITOR	CEAS4R7M50

Mark	No.	Description	Parts No.
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RESISTORS

	R860, R861	CARBON FILM RESISTOR	RD1/4PM331J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

		PIN JACK(2P)	AKB7016
		3P RCA PINJACK	AKB7018
	JA803,JA807	JACK	RKN1004
	CN802	CONNECTOR(7P)	KPE7
	CN804	CONNECTOR(4P)	KPE4

M PRIMARY ASSY

SEMICONDUCTORS

	IC51	REGULATOR IC	NJM78M56FA
	Q51	TRANSISTOR	KRC101M
	D51	DIODE	S5688G
	D53	ZENER DIODE	MTZJ5.1A
	D54,D55	DIODE	1SS252

TRANSFORMERS

Δ	T51	POWER TRANSFORMER	ATT7018
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SWITCHES AND RELAYS

	RY51	RELAY	ASR1044
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CAPACITORS

	C51	CERAMIC CAPACITOR	CGCYX103M25
	C52	ELECT. CAPACITOR	CEAS471M16
	C53	ELECT. CAPACITOR	CEAS470M16
	C54,C55	CKA (10000pF/AC250V)	ACG7020

RESISTORS

	R54	CARBON FILM RESISTOR	RD1/2PM270J
	R55	RESISTOR(2.2MΩ, 1/2W)	ACN-208
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

		SOCKET(1P)	AKP1060
		GROUND PLATE	VNF-091
	CN51	CONNECTOR(4P)	KPE4
	H51,H52	FUSE CLIP	AKR1004

I VOLUME ASSY

SEMICONDUCTORS

	IC701-IC703	IC	UPC4570C
	Q701	TRANSISTOR	KRC103M
	Q702	TRANSISTOR	KRA103M
	Q703,Q704	N-FET	2SK246
	Q705,Q706	TRANSISTOR	2SA1115
	Q707,Q708	TRANSISTOR	2SC2603
	D701,D703	DIODE	1SS252
	D705	DIODE	1SS252

CAPASITORS

	C701,C702	ELECT. CAPACITOR	CEAS4R7M50
	C703,C704	AXIAL CAPACITOR	CCPUSL560J50
	C705-C708	ELECT. CAPACITOR	CEAS4R7M50
	C709,C710	CERAMIC CAPACITOR	CKPUYB151K50

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	C711,C712	ELECT. CAPACITOR	CEAS4R7M50		C3015	PLASTIC FILM CAPACITOR	CQMA473J50
	C714	ELECT. CAPACITOR	CEAS4R7M50		C3017	AUDIO FILM CAPACITOR	CFTXA474J50
	C716	AXIAL CAPACITOR	CKPUYB101K50		C3018	ELECT. CAPACITOR	CEAS470M10
	C718	ELECT. CAPACITOR	CEAS4R7M50		C3019	ELECT. CAPACITOR	CEAS1R0M50
	C719	ELECT. CAPACITOR	CEANP100M50		C3020	ELECT. CAPACITOR	CEAS221M16
	C720,C721	CERAMIC CAPACITOR	CCCSL271J50		C3021-C3024	ELECT. CAPACITOR	CEAS100M50
	C722	ELECT. CAPACITOR	CEAS220M50		C3025,C3027	ELECT. CAPACITOR	CEASR47M50
	C723-C728	CERAMIC CAPACITOR	CGCYX104M25		C3026,C3028	ELECT. CAPACITOR	CEANL4R7M50
	C729,C730	AUDIO FILM CAPACITOR	CFTXA473J50		C3029	AUDIO FILM CAPACITOR	CFTXA154J50
					C3030	ELECT. CAPACITOR	CEANL3R3M50
RESISTORS					C3031,C3032	AUDIO FILM CAPACITOR	CFTXA154J50
	VR701	VARIABLE RESISTOR (100Ω-A5x6)	ACX7028		C3033	ELECT. CAPACITOR	CEANL3R3M50
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□□		C3035	ELECT. CAPACITOR	CEANL4R7M50
OTHERS					C3036	ELECT. CAPACITOR	CEASR47M50
		CABLE HOLDER(15P)	51063-1505		C3037	ELECT. CAPACITOR	CEANL4R7M50
	CN702	6P SOCKET	KP200TA6L		C3038	ELECT. CAPACITOR	CEASR47M50
	CN703	CONNECTOR(9P)	KPE9		C3039-C3041	ELECT. CAPACITOR	CEAS1R0M50
H PRO LOGIC ASSY					C3042	ELECT. CAPACITOR	CEAS2R2M50
SEMICONDUCTORS					C3043	CERAMIC CAPACITOR	CKCYB471K50
	IC3001	DOLBY PROLOGIC IC	LV1030		C3044	ELECT. CAPACITOR	CEAS2R2M50
	IC3002	LOGIC IC	TC4052BP		C3045	ELECT. CAPACITOR	CEAS2R2M50
	IC3003	DUAL ATT/BAL IC	M51132L		C3046	AUDIO FILM CAPACITOR	CFTXA683J50
	IC3004	OP-AMP IC	NJM4558D-D		C3047	PLASTIC FILM CAPACITOR	CQMA222J50
	IC3006-IC3008	OP-AMP IC	NJM4558D-D		C3048	AUDIO FILM CAPACITOR	CFTXA103J50
					C3049	AUDIO FILM CAPACITOR	CFTXA683J50
	IC3009	DSP IC	M65849FP		C3050,C3051	AUDIO FILM CAPACITOR	CFTXA104J50
	IC3010	OP-AMP IC	NJM4558D-D		C3052	AUDIO FILM CAPACITOR	CFTXA683J50
	IC3012	REGULATOR IC	NJM78M09FA		C3053	PLASTIC FILM CAPACITOR	CQMA222J50
	Q3001	TRANSISTOR	2SD468		C3054	AUDIO FILM CAPACITOR	CFTXA103J50
	Q3003,Q3004	N-FET	2SK246		C3055	ELECT. CAPACITOR	CEANP1R0M50
	Q3005	TRANSISTOR	KRC103M		C3056	ELECT. CAPACITOR	CEAS470M10
	Q3006	TRANSISTOR	KRA103M		C3057	CERAMIC CAPACITOR	CGCYX104M25
	Q3007	TRANSISTOR	KRC103M		C3058,C3059	ELECT. CAPACITOR	CEAS220M25
	Q3008	TRANSISTOR	KRA103M		C3060-C3062	ELECT. CAPACITOR	CEAS4R7M50
	Q3009	N-FET	2SK246		C3063	ELECT. CAPACITOR	CEAS470M16
	D3001,D3002	DIODE	1SS252		C3064	ELECT. CAPACITOR	CEAS220M25
	D3005,D3006	LED(REDF)	BR3371XJ30A		C3065,C3066	ELECT. CAPACITOR	CEAS4R7M50
	D3007,D3008	DIODE	1SS252		C3067	ELECT. CAPACITOR	CEAS470M25
	D3009	ZENER DIODE	MTZJ5.1C		C3068-C3071	ELECT. CAPACITOR	CEAS470M16
	D3010	ZENER DIODE	MTZJ12C		C3072,C3073	ELECT. CAPACITOR	CEAS4R7M50
	D3011	DIODE	1SS252		C3074	ELECT. CAPACITOR	CEANL4R7M50
CAPACITORS					C3075,C3076	ELECT. CAPACITOR	CEAS100M50
	C3001,C3002	ELECT. CAPACITOR	CEAS1R0M50		C3077	CERAMIC CAPACITOR	CKCYB471K50
	C3003	ELECT. CAPACITOR	CEAS221M10		C3079,C3080	ELECT. CAPACITOR	CEAS4R7M50
	C3004-C3007	ELECT. CAPACITOR	CEAS100M50		C3081-C3084	CERAMIC CAPACITOR	CGCYX473M25
	C3008	ELECT. CAPACITOR	CEAS2R2M50		C3085	CERAMIC CAPACITOR	CGCYX104M25
	C3009	ELECT. CAPACITOR	CEASR33M50		C3086	CERAMIC CAPACITOR	CCCSL101J50
	C3010,C3016	ELECT. CAPACITOR	CEAS221M10	RESISTORS			
	C3011	AUDIO FILM CAPACITOR	CFTXA823J50		R3020	METALFILM RESISTOR	RN1/4PC5102F
	C3012	PLASTIC FILM CAPACITOR	CQMA332J50		R3021,R3022	METALFILM RESISTOR	RN1/4PC1003F
	C3013	AUDIO FILM CAPACITOR	CFTXA823J50		R3023	METALFILM RESISTOR	RN1/4PC3902F
	C3014	ELECT. CAPACITOR	CEASR47M50		R3024	METALFILM RESISTOR	RN1/4PC5102F
					R3025,R3026	METALFILM RESISTOR	RN1/4PC1003F

VSX-D506S, VSX-456

Mark	No.	Description	Parts No.
	R3027	METALFILM RESISTOR	RN1/4PC3902F
	R3071	METAL OXIDE RESISTOR	RS1LMF270J
	R3073	CARBON FILM RESISTOR	RD1/2PM820J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

	CN3001	15P SOCKET	KP200TA15L
	CN3002	5P SOCKET	KP200TA5L
	CN3003	CONNECTOR(10P)	KPE10
	X3001	CERAMIC RESONATOR (8.00MHz)	DSS1053
	X3002	CERAMIC RESONATOR (4.00MHz)	ASS7014

N FM/AM TUNER MODULE

SEMICONDUCTORS

	IC6201	AM/FM +MPX IC	LA1836M
	IC6202	PLL IC	LM7001J
	Q6101	DUALGATE-FET (CHIP)	3SK194
	Q6102	TRANSISTOR	2SC2223
	Q6103	TRANSISTOR	2SC2714
	Q6104	MOS-FET	2SK302
	Q6201	NCH-FET(SMD)	2SK208
	Q6202	TRANSISTOR	2SC2712
	Q6203	TRANSISTOR	2SC2235
	Q6204	TRANSISTOR	XDA124EK
	Q6214	TRANSISTOR	2SC2714
	Q6217	TRANSISTOR	XDC124EK
	D6101,D6102	VARI-CAP	1T33

COILS AND FILTERS

	L6101	COIL	ATC1020
	L6102	COIL	ATC1021
	L6103	CHIP COIL	ATH1043
	L6104	FM COIL	ATC1003
	L6202,L6203	CHIP COIL	LCTA2R2J3225
	L6207	FM DETECTION COIL	ATE1013
	L6208	CHIP COIL	LCTA2R2J3225
	F6101	CERAMIC FILTER	ATF-155
	F6202	AM CERAMIC FILTER (450KHz)	ATF1156
	F6203,F6204	CERAMIC FILTER	ATF-119

TRANSFORMERS

	T6101	FM IF TRANS.	ATE-063
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CAPACITORS

	C6101	CHIP CAPACITOR	CCSQCH5R0C50
	C6102	CERAMIC CAPACITOR	CKSQYB103K50
	C6103	CHIP CAPACITOR	CKSQYB102K50
	C6105	CHIP CAPACITOR	CCSQTH150J50
	C6106	CHIP CAPACITOR	CKSQYB102K50
	C6107	CHIP CAPACITOR	CCSCK1R0C50
	C6108	CHIP CAPACITOR	CCSQCH101J50
	C6109	CERAMIC CAPACITOR	CKSQYB103K50
	C6110	CHIP CAPACITOR	CCSQCK2R0C50
	C6111	CHIP CERAMIC C.	CCSQCH150J50
	C6112	CHIP CAPACITOR	CKSQYB102K50
	C6113	CHIP CAPACITOR	CCSQRH180J50

Mark	No.	Description	Parts No.
	C6114	CHIP CAPACITOR	CCSQRH080D50
	C6115	CHIP CAPACITOR	CCSQCH330J50
	C6116	CHIP CERAMIC C.	CCSQCH150J50
	C6117	CERAMIC CAPACITOR	CKSQYB103K50
	C6202	CAPACITOR (CERAMIC) (1μF/16V)	ACG1051
	C6203	CHIP CAPACITOR	CCSQCH101J50
	C6204	CHIP CAPACITOR	CKSQYB102K50
	C6208	CHIP CERAMIC C.	CCSQCH150J50
	C6209	CERAMIC CAPACITOR	CKSQYB473K50
	C6210	CERAMIC CAPACITOR	CKSQYB103K50
	C6212	CHIP CAPACITOR	CKSQYF103Z50
	C6213	CHIP CAPACITOR	CKSQYB223K50
	C6214	AUDIO FILM CAPACITOR	CFTXA224J50
	C6215	AUDIO FILM CAPACITOR	CFTXA103J50
	C6216,C6217	ELECT. CAPACITOR	CEAS330M16
	C6218	CHIP CAPACITOR	CKSQYF103Z50
	C6219	ELECT. CAPACITOR	CEAS470M10
	C6220	CHIP CAPACITOR	CKSQYF223Z50
	C6221,C6222	CHIP CERAMIC C.	CCSQCH150J50
	C6223	CHIP CAPACITOR	CKSQYF103Z50
	C6224	ELECT. CAPACITOR	CEAS100M50
	C6225	CERAMIC CAPACITOR	CKSQYF473Z50
	C6226	CHIP CAPACITOR	CKSQYF223Z50
	C6227	ELECT. CAPACITOR	CEAS101M10
	C6228	CERAMIC CAPACITOR	CKSQYB472K50
	C6229	CERAMIC CHIP C.	CCSCH821J50
	C6230	CHIP CAPACITOR	CKSQYB393K50
	C6231	ELECT. CAPACITOR	CEAS3R3M50
	C6232	CERAMIC CAPACITOR	CKSYB393K50
	C6233	ELECT. CAPACITOR	CEAS3R3M50
	C6234	CAPACITOR (CERAMIC) (1μF/16V)	ACG1051
	C6235	CERAMIC CAPACITOR	CKSQYF224Z25
	C6236	CAPACITOR (CERAMIC) (1μF/16V)	ACG1051
	C6237	CERAMIC CAPACITOR	CKSQYB473K50
	C6238	ELECT. CAPACITOR	CEJA100M16
	C6239	CHIP CAPACITOR	CKSQYF223Z50
	C6241	CERAMIC CAPACITOR	CKSQYF473Z50
	C6242	CHIP CAPACITOR	CKSQYF223Z50
	C6243-C6245	ELECT. CAPACITOR	CEAS470M16
	C6246	ELECT. CAPACITOR	CEAS100M50
	C6249,C6250	ELECT. CAPACITOR	CEJA4R7M35
	C6251	CHIP CAPACITOR	CKSYB472K50
	C6252	CERAMIC CAPACITOR	CKSQYB472K50
	C6255	CHIP CAPACITOR	CKSQYF223Z50
	C6261	ELECT. CAPACITOR	CEAS1R0M50
	C6262	ELECT. CAPACITOR	CEAS100M50
	C6263	CHIP CAPACITOR	CKSYF473Z50
	C6264	CERAMIC CAPACITOR	CKSQYB103K50
	C6265	CERAMIC CAPACITOR	CKSQYB473K50
	C6266	CERAMIC CAPACITOR	CKSQYF473Z50
	C6267	CERAMIC CAPACITOR	CKSQYB473K50
	C6268	CHIP CAPACITOR	CCSQCH101J50

Mark	No.	Description	Parts No.
RESISTORS			
	R6101	CHIP RESISTOR	RS1/8S470J
	R6113,R6116	CHIP RESISTOR	RS1/8SOR0J
	R6118	CHIP RESISTOR	RS1/8SOR0J
	R6209	CHIP RESISTOR	RS1/8S221J
	R6211	CHIP RESISTOR	RS1/8S103J
	R6237	CHIP RESISTOR	RS1/8S182J
	R6239	CHIP RESISTER	RS1/8S332J
	R6243,R6244	CHIP RESISTOR	RS1/8S101J
	R6268-R6271	CHIP RESISTOR	RS1/8SOR0J
	R6275,R6276	CHIP RESISTOR	RS1/8SOR0J
	R6278,R6283	CHIP RESISTOR	RS1/8SOR0J
	R6284,R6290	CHIP RESISTOR	RS1/8SOR0J
	R6293,R6294	CHIP RESISTOR	RS1/8SOR0J
	R6297	CHIP RESISTOR	RS1/8SOR0J
	R6299,R6300	CARBON FILM RESISTOR	RD1/4PU102J
	VR6201	VR (10KΩ)	ACP1056
	VR6202	VR	VRTB6VS223
	Other Resistors	CHIP RESISTOR	RS1/10SOR0J

OTHERS

		AM RF TUNING BLOCK	AXX1025
	BN6201	TERMINAL 4-P	AKE7028
	CN6201	14P SOCKET	KP200LA14L
	X6201	CRYSTAL RESONATOR (456KHz)	ASS1066
	X6202	CERAMIC RESONATOR (450KHz)	ATF1027
	X6203	CRYSTAL RESONATOR (7.200MHz)	ASS1042

6. ADJUSTMENT

6.1 TUNER SECTION

■ FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1-1.

Step No.	Adjustment Title	FM SG (1kHz, ± 75 kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB μ V)			
1	Center Adjustment	98 Non modulation	80 or more	—	L6207	Adjust so that the DC voltage between the IC6201-Pin 4 and Pin 28 (or \oplus leads of C6224 and C6261) becomes $0V \pm 50$ mv.
2	Front End Sensitivity Adjustment	98	10 to 30	98MHz	L6102 T6101	Adjust so that the DC voltage between the IC6201-Pin 12 and GND (or \oplus leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 ± 2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM \rightarrow FM.

■ AM Tuner Section

- Set the mode selector to AM BAND.
- Connect the wiring as shown in Fig. 1-1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dB μ V/m)			
1	TUNED IND. Lighting Level	999^{*1}	$47 (\pm 2$ dB)	999kHz^{*1}	VR6202	Adjust so that the indicator of TUNED IND. stars to light up.

*1: For the area using 10kHz step, frequencies should be 1000 kHz

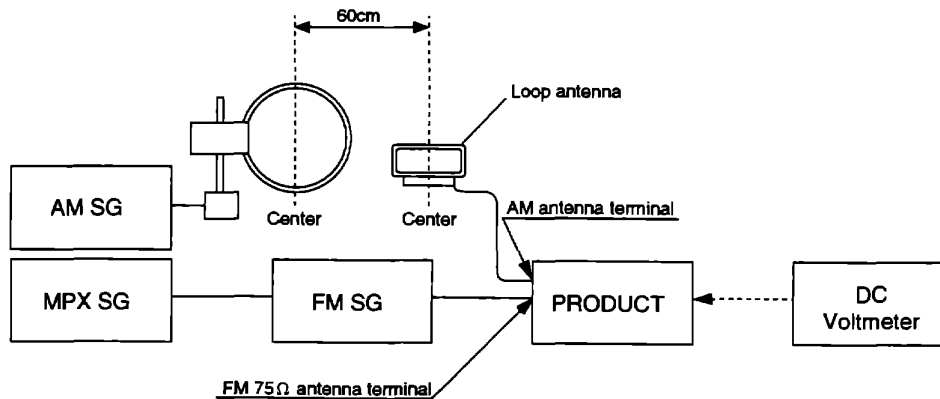


Fig. 1-1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MODULE

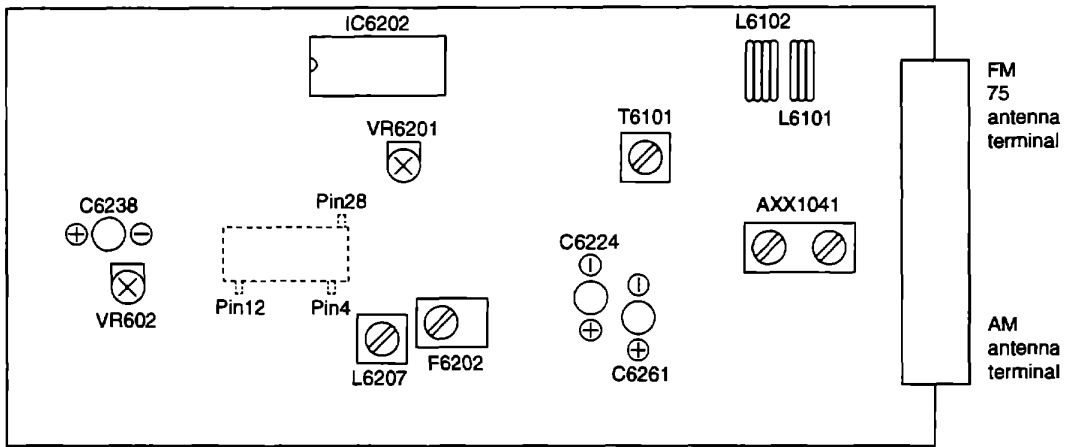


Fig. 1-2 Adjustment Points

7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

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

■ PDG197A (FL/U-COM ASSY : IC901)

● Microcomputer Port Function Table

PIN No.	PIN NAME	FUNCTION	RESET		FUNCTION
1	G1/A1	O/O	Hi-Z or PD	O	FL Grid 2
2	G0/A0	O/O	Hi-Z or PD	O	FL Grid 1
3	NC	(5V)			(5V)
4	PE0/ECO/INT0	I/I/I	Hi-Z	I	AC WAKE-UP
5	PE1/EC1/INT1	I/I/I	Hi-Z	I	no use
6	PE2/INT2	I/I	Hi-Z	I	no use
7	PE3/INT3/NMI	I/I/I	Hi-Z	I	no use
8	PE4/RMC	I/I	Hi-Z	I	RMC
9	PE5	I/I	Hi-Z	I	9K/10K
10	PE6/PWM	O/O	H	O	VOL.UP
11	PE7/TO/ADJ	O/O/O	H	O	VOL.DOWN
12	PC0/KR0	IO/I	Hi-Z	I	TUNED
13	PC1/KR1	IO/I	Hi-Z	I	STEREO
14	PC2/KR2	IO/I	Hi-Z	I	JOG 1
15	PC3/KR3	IO/I	Hi-Z	I	JOG 2
16	PC4/KR4	IO/I	Hi-Z	I	KEY IN 1
17	PC5/KR5	IO/I	Hi-Z	I	KEY IN 2
18	PC6/KR6	IO/I	Hi-Z	I	KEY IN 3
19	PC7/KR7	IO/I	Hi-Z	O	PRO-LOGIC DT
20	PB0/CINT	IO/I	Hi-Z	O	PRO-LOGIC CK
21	PB1/CS0	IO/I	Hi-Z	O	DSP ST
22	PB2/SCK0	IO/IO	Hi-Z	O	4052 CONT A
23	PB3/SIO	IO/I	Hi-Z	O	5-D THEATER ON/OFF
24	PB4/SO0	IO/I	Hi-Z	O	4052 CONT B
25	PB5/SCK1	IO/IO	Hi-Z	O	5-D CONTROL
26	PB6/SI1	IO/I	Hi-Z	O	DSP-DELAY/DIRECT
27	PB7/SO1	IO/O	Hi-Z	O	PRO-LOGIC ST
28	AVREF	I	(5V)	I	5V
29	PA0/AN0	IO/AI	Hi-Z	I	KU-HY Selection
30	PA1/AN1	IO/AI	Hi-Z	O	BAND
31	PA2/AN2	IO/AI	Hi-Z	O	no use
32	PA3/AN3	IO/AI	Hi-Z	O	no use
33	PA4/AN4	IO/AI	Hi-Z	I	AMP OL
34	PA5/AN5	IO/AI	Hi-Z	I	AMP DC
35	PA6/AN6	IO/AI	Hi-Z	O	V.CONT B
36	PA7/AN7	IO/AI	Hi-Z	O	V.CONT A
37	AVss	(GND)	GND		GND
38	RST	I	LOW	I	RST
39	EXTAL	I	Oscillation	I	Oscillation
40	XTAL	O	Oscillation	O	Oscillation
41	Vss	(GND)	GND		GND
42	TX	O		O	OPEN
43	TEX	I		I	GND
44	Vdd	(5V)	5V		5V
45	VfDP	(Vf)	Vf		Vf
46	PD0/A55	O/O	Hi-Z or PD	O	V.MUTE
47	PD1/A54	O/O	Hi-Z or PD	O	AC RY
48	PD2/A53	O/O	Hi-Z or PD	O	R.C. RY
49	PD3/A52	O/O	Hi-Z or PD	O	FRONT RY
50	PD4/A51	O/O	Hi-Z or PD	O	SP-B RY

PIN No.	PIN NAME	FUNCTION	RESET		FUNCTION		
51	PD5/A50	O/O	Hi-Z or PD	0	HP RY		
52	PD6/A49	O/O	Hi-Z or PD	0	SP-A RY		
53	PD7/A48	O/O	Hi-Z or PD	0	no use		
54	PF0/A47	O/O	Hi-Z or PD	0	no use		
55	PF1/A46	O/O	Hi-Z or PD	0	no use		
56	PF2/A45	O/O	Hi-Z or PD	0	(OPEN)		
57	PF3/A44	O/O	Hi-Z or PD	0	(OPEN)		
58	PF4/A43	O/O	Hi-Z or PD	0	F. ST 3		
59	PF5/A42	O/O	Hi-Z or PD	0	F. ST 2		
60	PF6/A41	O/O	Hi-Z or PD	0	F. ST 1		
61	PF7/A40	O/O	Hi-Z or PD	0	SYS. DT		
62	PG0/A39	O/O	Hi-Z or PD	0	SYS. CK		
63	PG1/A38	O/O	Hi-Z or PD	0	PLL CE		
64	PG2/A37	O/O	Hi-Z or PD	0	T. MUTE		
65	PG3/A36	O/O	Hi-Z or PD	0	A. MUTE		
66	PG4/A35	O/O	Hi-Z or PD	0	MONO		
67	PG5/A34	O/O	Hi-Z or PD	0	LOUDNESS		
68	PG6/A33	O/O	Hi-Z or PD	0	(OPEN)		
69	PG7/A32	O/O	Hi-Z or PD	0	SEG.21		
70	PH0/A31	O/O	Hi-Z or PD	0	SEG.20		
71	PH1/A30	O/O	Hi-Z or PD	0	SEG.19		
72	PH2/A29	O/O	Hi-Z or PD	0	SEG.18/KEY 1		
73	PH3/A28	O/O	Hi-Z or PD	0	SEG.17/KEY 2		
74	PH4/A27	O/O	Hi-Z or PD	0	SEG.16/KEY 3		
75	PH5/A26	O/O	Hi-Z or PD	0	SEG.15/KEY 4		
76	PH6/A25	O/O	Hi-Z or PD	0	SEG.14/KEY 5		
77	PH7/A24	O/O	Hi-Z or PD	0	SEG.13/KEY 6		
78	A23	0	Hi-Z or PD	0	SEG.12/KEY 7		
79	A22	0	Hi-Z or PD	0	SEG.11/KEY 8		
80	A21	0	Hi-Z or PD	0	SEG.10/KEY 9		
81	A20	0	Hi-Z or PD	0	SEG. 9/KEY10		
82	A19	0	Hi-Z or PD	0	SEG. 8		
83	A18	0	Hi-Z or PD	0	SEG. 7		
84	A17	0	Hi-Z or PD	0	SEG. 6		
85	A16	0	Hi-Z or PD	0	SEG. 5		
86	G15/A15	O/O	Hi-Z or PD	0	SEG. 4		
87	G14/A14	O/O	Hi-Z or PD	0	SEG. 3		
88	G13/A13	O/O	Hi-Z or PD	0	SEG. 2		
89	V _{DD}	5V	5V		5V		
90	G12/A12	O/O	Hi-Z or PD	0	SEG. 1		
91	G11/A11	O/O	Hi-Z or PD	0	FL Grid12		
92	G10/A10	O/O	Hi-Z or PD	0	FL Grid11		
93	G9/A9	O/O	Hi-Z or PD	0	FL Grid10		
94	G8/A8	O/O	Hi-Z or PD	0	FL Grid 9		
95	G7/A7	O/O	Hi-Z or PD	0	FL Grid 8		
96	G6/A6	O/O	Hi-Z or PD	0	FL Grid 7		
97	G5/A5	O/O	Hi-Z or PD	0	FL Grid 6		
98	G4/A4	O/O	Hi-Z or PD	0	FL Grid 5		
99	G3/A3	O/O	Hi-Z or PD	0	FL Grid 4		
100	G2/A2	O/O	Hi-Z or PD	0	FL Grid 3		

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Pin No.	Port Function	Logic	Function
4	AC WAKE UP input	50 or 60 Hz squar wave	Same as the conventional model. Normal operation mode when signals are input. When signals are absent and 2 waves are dropped, the "STOP mode" should be set. Note) To prevent incorrect operations due to noise and static electricity, implement noise removal measures.
8	SR remote controller input	SR remote controller code (no carrier, Hi active).	The output of the light-receiving section of the remote controller of the unit and output from SR IN of the light-receiving section of the remote controller of other unit are input.
9	Freq. step select input (9K/10K)	H/L	Selects frequency steps of the tuner. FM AM H 100K 10K
10	VOL.UP output	Lo active	Motor volume control. Defined as Lo when VOL.UP.
11	VOL.DOWN output	Lo active	Motor volume control. Defined as Lo when VOL.DOWN.
12	TUNED input	Hi active	Lo is input when the tuner is being tuned. "TUNED" lights up in the FL display. Functions only during TUNER FUNCTION and normally does not function.
13	STEREO input	Hi active	Lo is input when the tuner receives a stereo broadcasting. "STEREO" lights up on the FL display. Does not function when the forcible monaural is ON. Functions only during TUNER FUNCTION and normally does not function.
14	JOG 1 input	Pulse Lo input Normally H	JOG counterclockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
15	JOG 2 input	Pulse Lo input Normally H	JOG clockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
16-18	KEY SCAN input		KEY SCAN input of the unit key.
29	Destination select	H/L	H:KU series model (including /SD) L:HY series model (including /HL, YP)
32	DSP input level sensitivity	Analog input	0 to 5V input level is input to DSP. When the input level exceeds 2.1V, (ATT)"OVERLOAD" lights up on the FL display. Functions only when analog signals (including AUTO) are input to the DSP. Does not function when the front speaker is set to "LARGE" or in a 2ch playback (including DIRECT). When the front speaker is set to "SMALL", this port functions in 2ch playback (including DIRECT). AC-3 model only. Set to the output port in the PRO-LOGIC model.
33	OL.DETECT input	Lo active	Input of the protection circuit as OVERLOAD DETECTOR. When Lo is input, this port opens relays other than the AC relay. "OVERLOAD" flashes on the 8th digits of the FL display for five seconds.

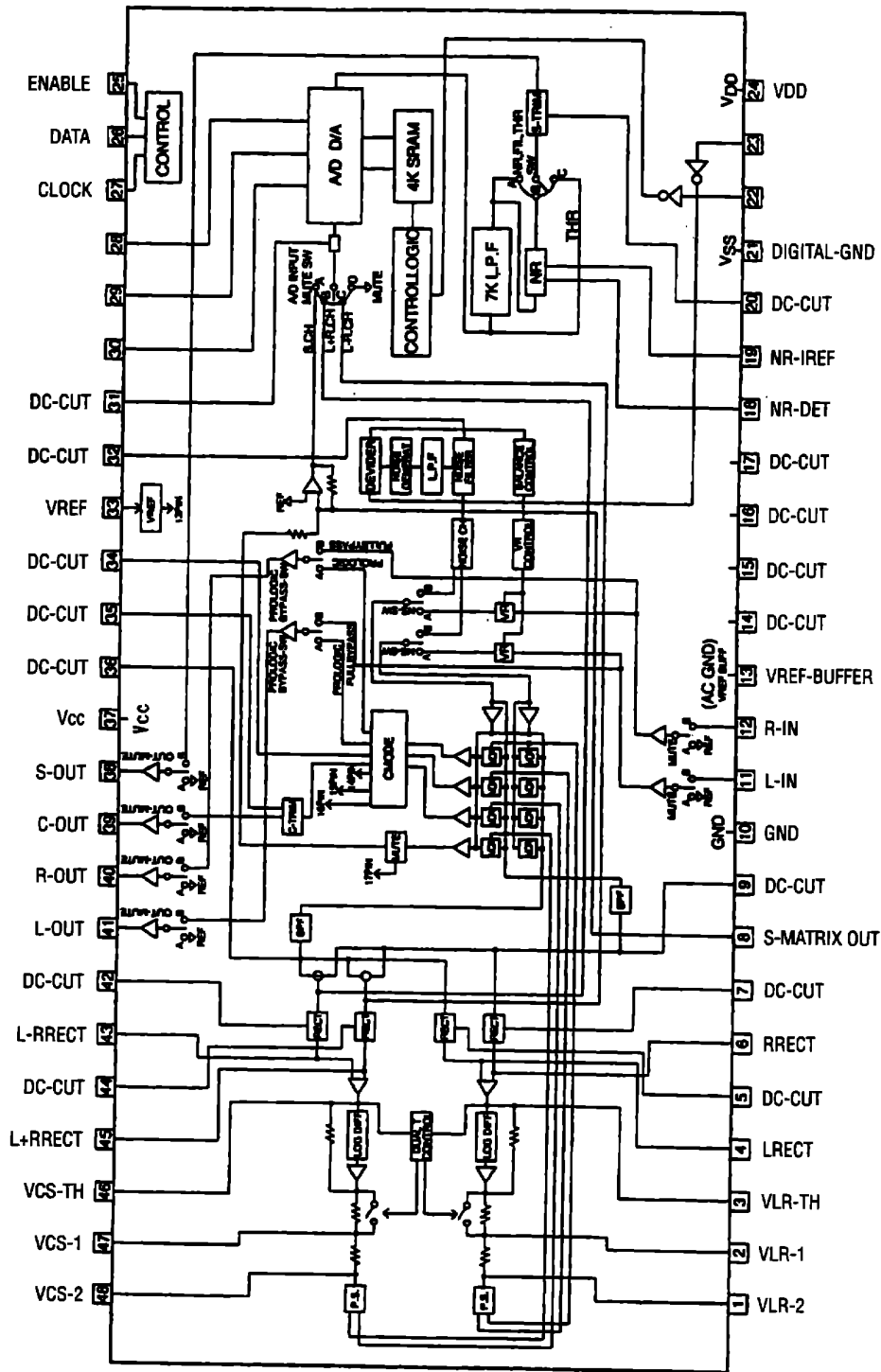
Pin No.	Port Function	Logic	Function																				
34	DC.DETECT input	Lo active	Input of the protection circuit as DC DETECTOR. When Lo is input, this port opens relays other than the AC relay. "POWEROFF" flashes on the 8th digits of the FL display.																				
35, 36	VIDEO IC CONT. output	H/L Depending on LA7952	2-bit parallel control for the video function IC. Refer to SW specification.																				
38	RESET	Lo active	Same specification as VSX-605S																				
39 40	Oscillation input Oscillation output		7.7MHz (ASS1055)																				
46	VIDEO signal MUTE output	Lo active	Output for muting MOTOR OUT Becomes H when in the audio FUNCTION.																				
30	RDS decoder VDD ON/OFF and FM/AM selection	H active	Turns ON/OFF the RDS decoder Tr switch for VDD. Lo when in AM and Hi in FM of the function tuner. Lo when the power is OFF. H at other times even when functions other than TUNER are set.																				
58	TC9299 ST output	Depending on TC9299	Serial control STROBE for the electric volume (for REAR, CENT., SUB WF) TC9299 (x2). 3 lines of 58, 61, and 62 (AC-3 model only).																				
59	TC9162 ST output	Depending on TC9162	Serial control STROBE for the function IC TC9162. 3 lines of 59, 61, and 62 (AC-3 model only).																				
60	TC9273 ST output	Depending on TC9273	Serial control STROBE for the function IC TC9273. 3 lines of 60, 61, and 62.																				
61	SYS.DATA output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control data. (TC9162 and TC9299 are only for AC-3 model)																				
62	SYS.CK output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control clock. (TC9162 and TC9299 are only for AC-3 model)																				
63	PLL CE. output	Depending on LM7001	CHIP ENABLE for the tuner PLL IC serial control. 3 lines of 61, 62, and 63																				
64	T.MUTE ON/OFF output	H active	Muting control for the tuner output. Muting timing is the same as the conventional model. Set to H in functions other than TUNER.																				
66	TUNERT forcible monaural ON/OFF output	H active	Set to H when the forcible monaural is ON in the MPX mode of the TUNER function.																				
51	HP.RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the headphone RY.																				
52 50 49	SP-A RY SP-B RY FRONT RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the front SP to be connected in series. Logic is as follows. <table style="margin-left: 20px;"> <tr> <td></td> <td>52</td> <td>50</td> <td>49</td> </tr> <tr> <td>SP-A ON</td> <td>H</td> <td>Lo</td> <td>H</td> </tr> <tr> <td>SP-B ON</td> <td>Lo</td> <td>H</td> <td>H</td> </tr> <tr> <td>A,B ON</td> <td>Lo</td> <td>Lo</td> <td>H</td> </tr> <tr> <td>A,B OFF</td> <td>Hi</td> <td>Hi</td> <td>Lo</td> </tr> </table>		52	50	49	SP-A ON	H	Lo	H	SP-B ON	Lo	H	H	A,B ON	Lo	Lo	H	A,B OFF	Hi	Hi	Lo
	52	50	49																				
SP-A ON	H	Lo	H																				
SP-B ON	Lo	H	H																				
A,B ON	Lo	Lo	H																				
A,B OFF	Hi	Hi	Lo																				

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Pin No.	Port Function	Logic	Function
48	R.C. RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the rear, center SP RY.
48-52	Protect operation		RY for protection is not provided for this model. The following functions are performed by setting ports 58 to 62 to Lo. Muting when power ON Instantaneous shut-off when power OFF AMP DC protect AMP over loading protect
47	AC RY ON/OFF output	H active	Turns ON/OFF the Tr switch for AC power RY. Lo when stand by, H when power ON.
65	A.MUTE output	Lo active	Controls the audio system muting. Muting timing is the same as the conventional model.
67	LOUDNESS ON/OFF output	H active	Turns ON/OFF the Tr switch for LOUDNESS. "LOUDNESS" lights up on the FL display when ON. Forcibly turned OFF when DIRECT ON.
69-90 (excluding 89)	FL drive segment output Also serves as 72 to 81 KEY SCAN		FL driver Main unit KEY SCAN output 81 is dedicated for selecting a destination.
1,2 & 91-100	FL drive grid output		FL driver (91 is for AC-3 model only)
26	DIRECT ON/OFF output	H active	/HY model only. Turns ON/OFF the DIRECT Tr switch. When DIRECT ON (port High), character "DIRECT" lights up on the FL display.
22 24	TC4052 CONTROL output	H/L	Control output for the IC TC4052 for selecting FRONT signal.
23	M51132 ON/OFF output	Lo active	Control output for the IC M51132L for 5-D THEATER. When ON (port Low), character "5-D THEATER" lights up on the FL display.
21	M65846 ST output	Depending on M65846	STROBE for the serial control of DSP IC M65846. Three lines of 19, 20, and 21.
20	SURR.CK output	Depending on LV1030 and M65846	CLOCK for the serial control of PRO-LOGIC IC and DSP IC.
27	PRO-LOGIC CE output	Depending on LV1030	CHIP ENABLE for the serial control of PRO-LOGIC IC LV1030. Three lines of 19, 20, and 27.
19	SURR.DT output	Depending on LV1030 and M65846	DATA for the serial control of PRO-LOGIC IC and DSP IC.
25	5D-CONT	Low active	Turns ON when the 5D-THEATER surround is effective.

■ LV1030 (PRO LOGIC ASSY : IC3001)

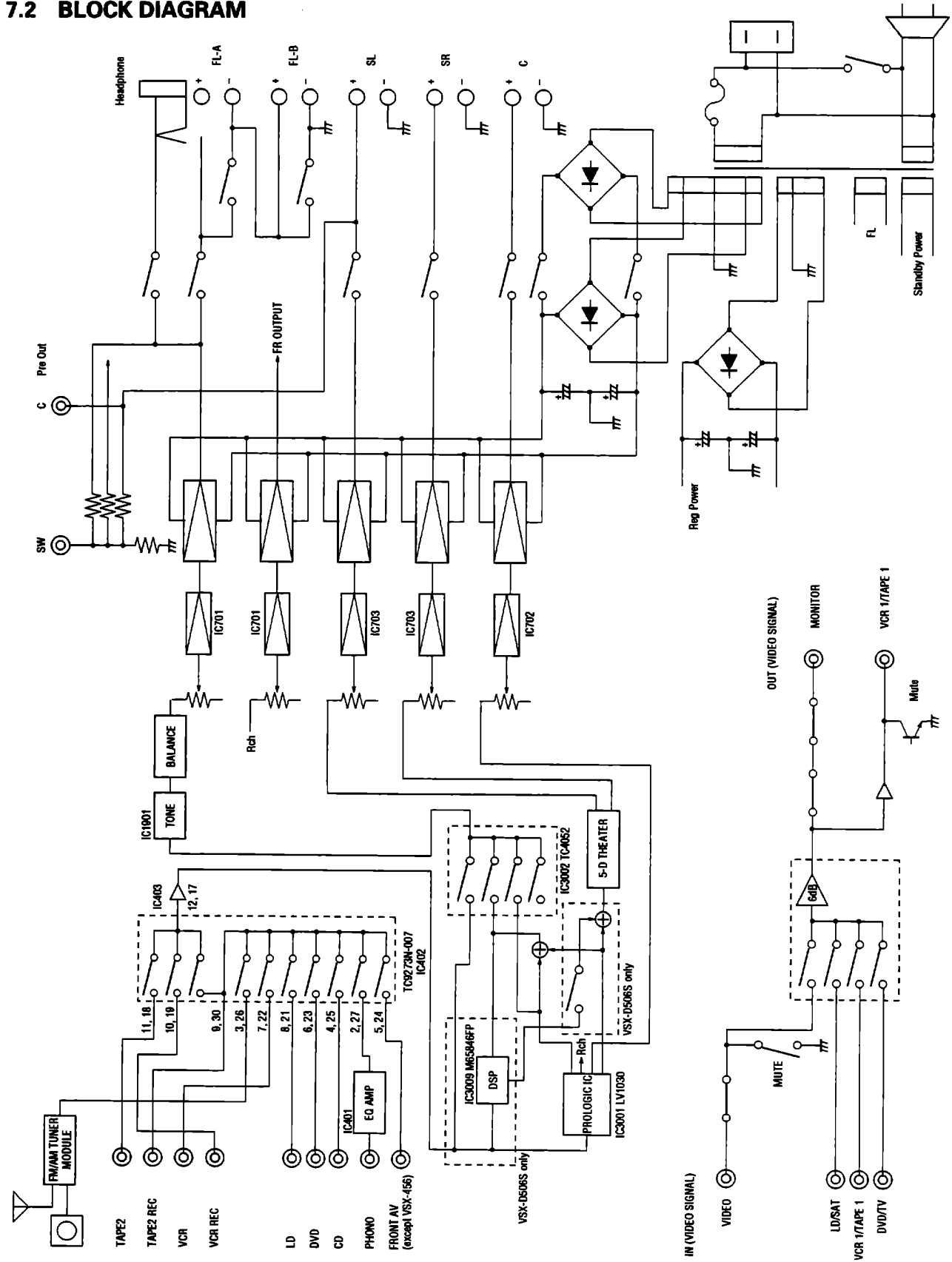
- Dolby PRO LOGIC
- Block Diagram



● **Anode Connection**

	11G	10G	9G~2G	1G
P1		MONO	a1	2b, 2c
P2	◦	TUNED	a2	2g
P3	FM	STEREO	h	2d
P4	AM	RFATT	j	2e
P5	DELAY	RDS	k	2f
P6	B	EON	b	1a
P7	A		f	1b
P8	SP▷		m	1f
P9			g	1g
P10			c	1c
P11	-		e	1h
P12	-		r	1e
P13	-		p	1d
P14	-		n	ch
P15	-		d1	MEMORY
P16	-	-	d2	SEARCH
P17	-	-	Dp1	CHARA
P18	-	-	S1, S3	GUI
P19	-	-	S4	FREQ
P20	-	-	S2	ST
P21	-	-	Dp2	

7.2 BLOCK DIAGRAM

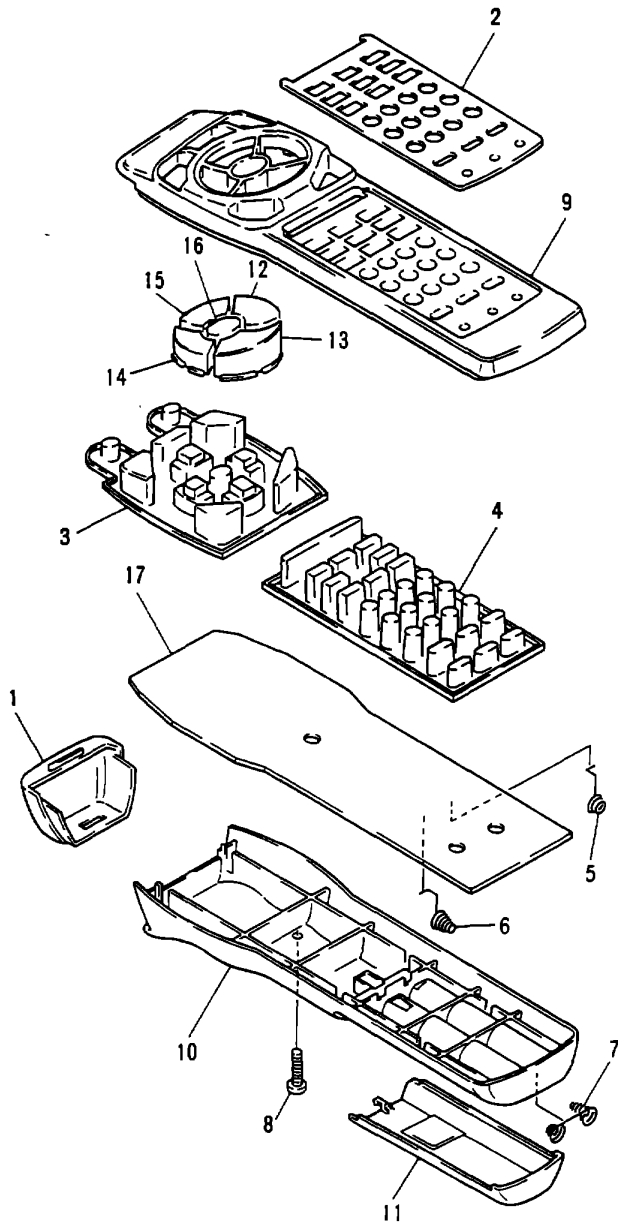


7.3 REMOTE CONTROL UNIT [CU-VSX115 (AXD7124)]

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 parts. Therefore, when replacing, be sure to use parts of identical designation.



■ Parts List

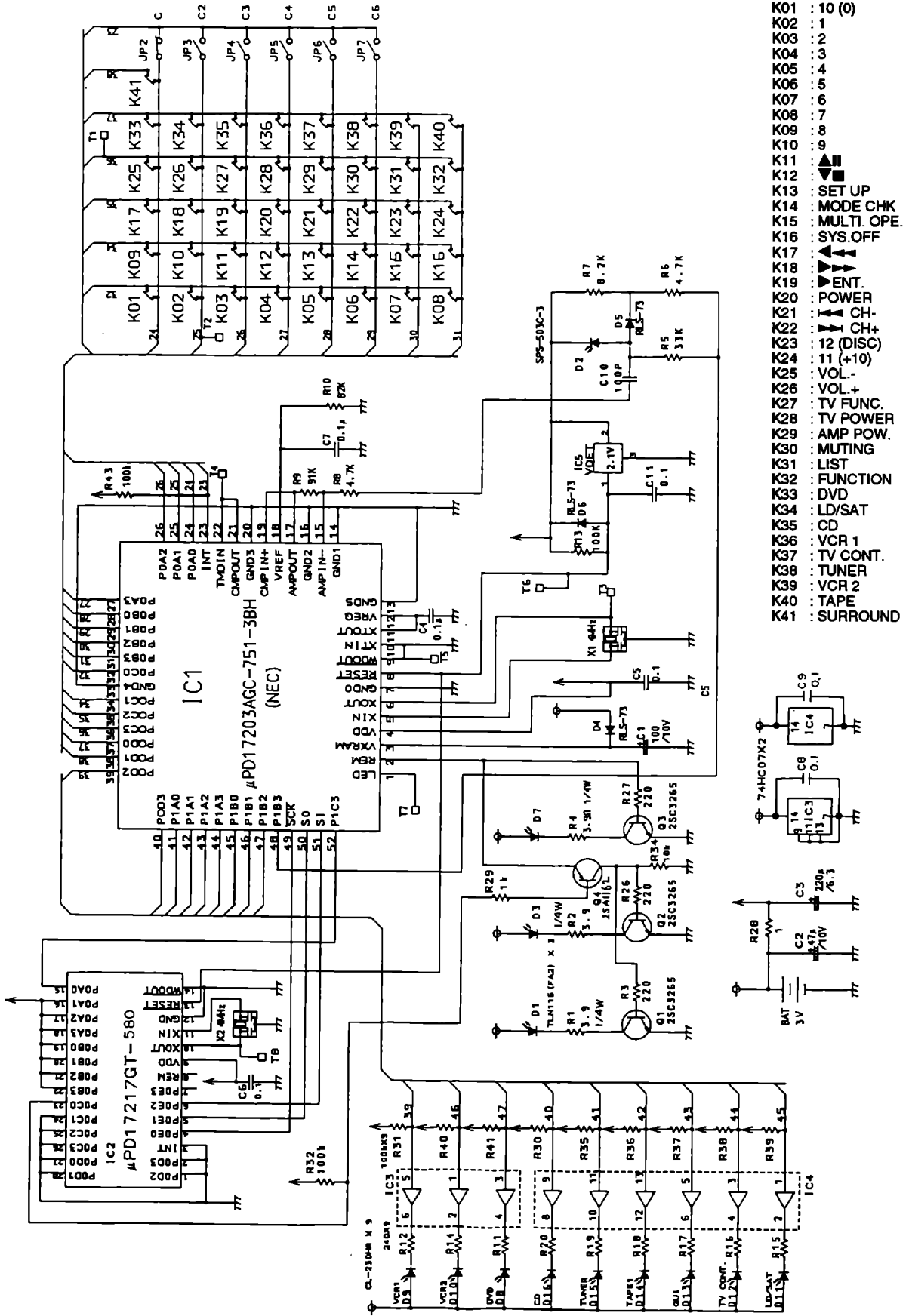
Mark	No.	Description	Part No.
	1	Filter	AZA7152
	2	Name plate	AZA7242
	3	Rubber sheet (A)	AZA7236
	4	Rubber sheet (B)	AZA7243
	5	Spring (+)	AZB7049
	6	Spring (-)	AZB7050
	7	Spring	AZB7051
	8	Screw	AZB7052
	9	Remo-con case (A)	AZN7672
	10	Remo-con case (B)	AZN7326
	11	Battery cover	AZN7327
	12	Main key (FF)	AZN7666
	13	Main key (STOP)	AZN7329
	14	Main key (REV)	AZN7665
	15	Main key (PAUSE)	AZN7331
NSP	16	Main key (PLAY)	AZN7664
	17	PCB	AZW7243

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7.3.2 SCHEMATIC AND PCB DIAGRAMS

■ SCHEMATIC DIAGRAM

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



VSX-D506S, VSX-456

7.3.3 PCB 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.
 - 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%).*

$560 \Omega \rightarrow 56 \times 10^1 \rightarrow 561 \dots\dots\dots RD1/4PU \boxed{561} J$
 $47 k\Omega \rightarrow 47 \times 10^3 \rightarrow 473 \dots\dots\dots RD1/4PU \boxed{473} J$
 $0.5 \Omega \rightarrow R50 \dots\dots\dots RN2H \boxed{R50} K$
 $1 \Omega \rightarrow 1R0 \dots\dots\dots RS1P \boxed{1R0} K$

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

$5.62 k\Omega \rightarrow 562 \times 10^1 \rightarrow 5621 \dots\dots\dots RN1/4PC \boxed{5621} F$

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

SEMICONDUCTORS

IC1			AZC7275
IC2			AZC7274
IC3, IC4			TC74HC07AF
IC5			RH5VA21AA
Q4-Q6			2SA1037K
Q1-Q3			2SC3265
D1, D3, D7			SE1003-C
D2			SPS-503C-3
D8-D20	LED		CL-230HR-CD
D4 - D6			RLS-73

CAPACITORS

C2			CEAS470M10
C4-C7, C11			CKSQYB104K25
C3			CEAS221M6R3
C1			CEAS101M6R3
C8 -C10			CCSQCH101J50

RESISTORS

R2001, R2002			RS1/8S0R0J
R1, R2, R4			RS1/8S3R9J
Other Resistors			RS1/10S□□□J

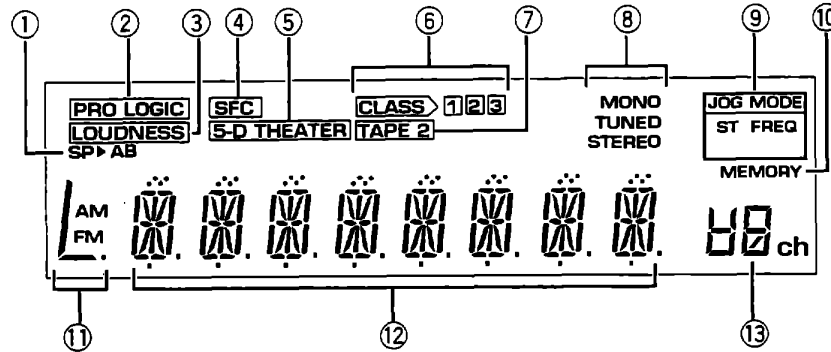
OTHERS

X1, X2	RESONATOR (4MHz)		KBR-4.0M
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8. PANEL FACILITIES AND SPECIFICATIONS

■MODEL VSX-D506S and VSX-456

Display



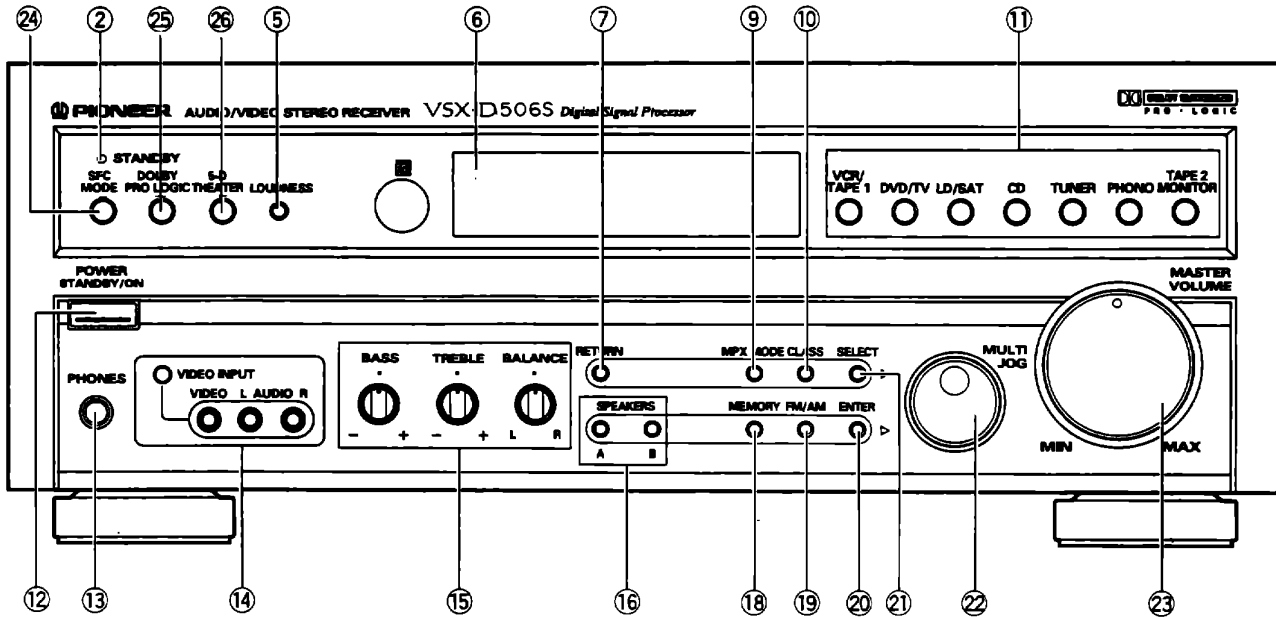
- ① **Speakers A, B indicator**
The indicator of the speaker system (A, B) selected will light.
- ② **PRO LOGIC indicator**
Lights when Dolby Pro Logic is selected.
- ③ **LOUDNESS indicator**
Lights when LOUDNESS is ON.
- ④ **SFC indicator**
Lights when STUDIO or ARENA has been selected with the SFC MODE button.
- ⑤ **5-D THEATER indicator**
Lights when 5-D THEATER is ON.
- ⑥ **CLASS 1, 2, 3 indicators**
The indicator of the class number selected lights.
- ⑦ **TAPE 2 indicator**
Lights when TAPE 2 MONITOR is ON.
- ⑧ **TUNER indicator**
MONO:
Lights when the monaural mode is set using the MPX MODE button.
TUNED:
Lights when broadcasts are being received.
STEREO:
Lights when stereo broadcasts are received during auto stereo mode.
- ⑨ **JOG MODE indicator**
ST:
Lights when the station mode is selected.
FREQ:
Lights when the frequency mode is selected.
- ⑩ **MEMORY indicator**
Lights when station memory mode is selected.
- ⑪ **AM/FM indicators**
The indicator of the band currently selected (AM/FM) lights.
- ⑫ **CHARACTER display**
- ⑬ **STATION display**
Indicates the station number currently selected.

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MODEL VSX-D506S

* The size of characters shown in the figure may differ from that on the actual product.

Front panel



② **STANDBY indicator**

⑤ **LOUDNESS button**

Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.

⑥ **Display**

⑦ **RETURN button**

⑨ **MPX MODE button**

Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.

⑩ **CLASS button**

⑪ **Function buttons**

⑫ **POWER STANDBY/ON button**

⑬ **PHONES jack (Headphone terminal)**

⑭ **VIDEO INPUT button/terminal**

Connect to a video camera, etc.

⑮ **STONE and BALANCE controls**

Use to adjust tone and volume balance.

⑯ **SPEAKERS A, B buttons**

ON/OFF switches for the A and B speaker systems.

⑱ **MEMORY button**

⑲ **FM/AM button**

Use to switch the FM/AM frequency band reception.

⑳ **ENTER button**

㉑ **SELECT button**

Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.

㉒ **MULTI JOG**

Use to select the frequency and station number when operating the tuner.

㉓ **MASTER VOLUME**

㉔ **SFC MODE button**

㉕ **DOLBY PRO LOGIC button**

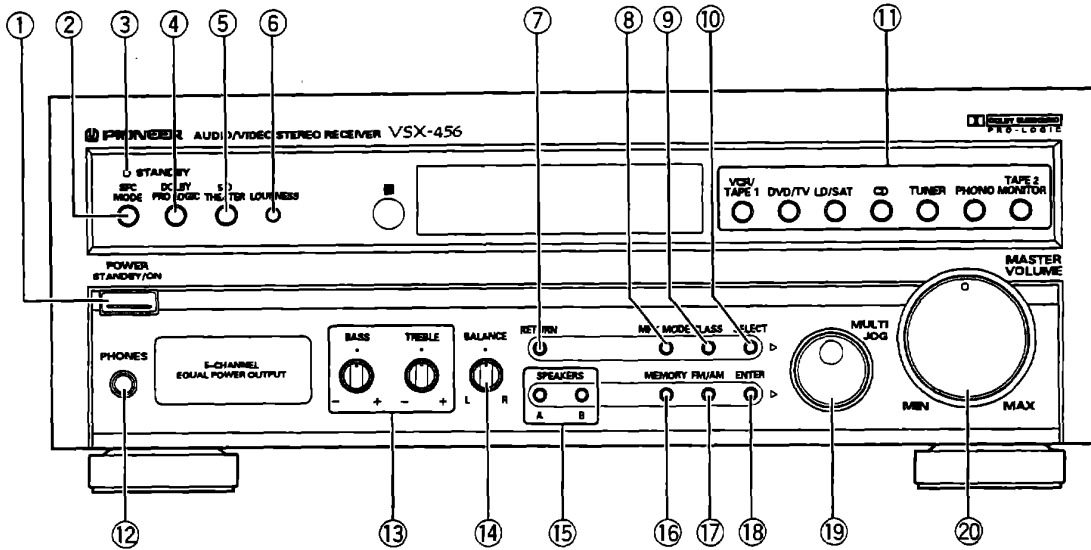
Switches DOLBY PRO LOGIC SURROUND on and off.

㉖ **5-D THEATER button**

MODEL VSX-456

Front Panel

- The size of characters in the figure may differ from that on the actual product.

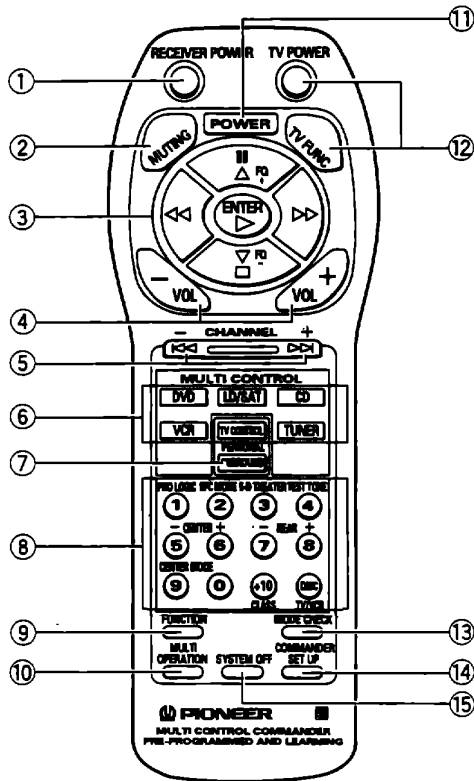


- | | |
|--|---|
| <p>① POWER STANDBY/ON button</p> <p>② SFC MODE button</p> <p>③ STANDBY indicator</p> <p>④ DOLBY PRO-LOGIC button</p> <p>⑤ 5-D THEATER button</p> <p>⑥ LOUDNESS button
Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.</p> <p>⑦ RETURN button</p> <p>⑧ MPX MODE button
Use to switch the auto stereo/monaural mode for receiving FM broadcasts.
When the received broadcast signal is weak, press this button to set the monaural mode.</p> <p>⑨ CLASS button</p> <p>⑩ SELECT button
Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.</p> | <p>⑪ Function buttons</p> <p>⑫ PHONES jack (Headphone terminal)</p> <p>⑬ STONE control
Use to adjust tone.</p> <p>⑭ BALANCE control
Use to adjust volume balance.</p> <p>⑮ SPEAKERS A, B buttons
ON/OFF switches for the A and B speaker systems.</p> <p>⑯ MEMORY button</p> <p>⑰ FM/AM button
Use to switch the FM/AM frequency band reception.</p> <p>⑱ ENTER button</p> <p>⑲ MULTI JOG
Use to select the frequency and station number when operating the tuner.</p> <p>⑳ MASTER VOLUME</p> |
|--|---|

VSX-D506S, VSX-456

MODEL VSX-D506S

Remote control unit

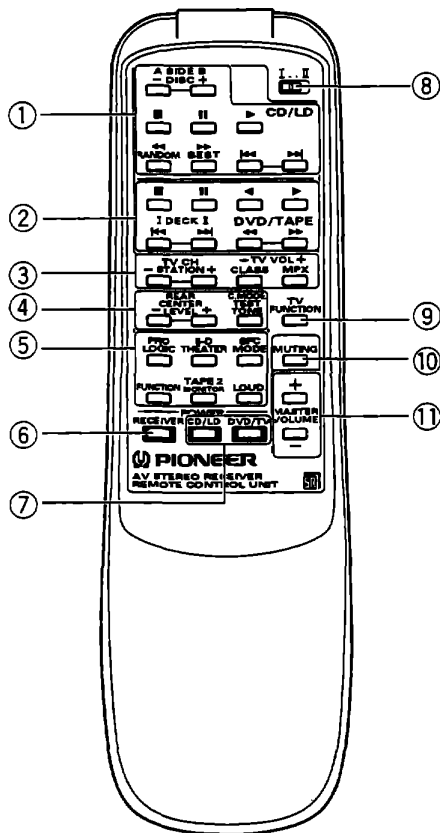


- ① **RECEIVER POWER button**
- ② **MUTING button**
Press to mute the volume.
- ③ **[When set to SURROUND (OPERATIONS)]**
△, ▽, ◀, ▶ (Select/Adjust) buttons
[When set to other than SURROUND (OPERATIONS)]
⏏ (Pause), □ (Stop), ◀◀ (Rewind), ▶▶ (Fast Forward), ▶ (Play) buttons
- ④ **VOL (-, +) buttons**
- ⑤ **[TV Operations]**
Selects the TV broadcast channel.
[CD, LD, DVD operations]
◀◀, ▶▶ (Chapter/Track Search) buttons
- ⑥ **MULTI CONTROL function buttons**
Used to set and operate the MULTI CONTROL, and switch the function.
TV CONTROL: Press to operate TV.

- ⑦ **SURROUND/PERSONAL button**
[When setting MULTI operations]
Press when setting to the personal mode using multi operations.
[When setting to other than multi operation]
Press when performing surround operations and setting/changing setting modes.
- ⑧ **Number/surround setting buttons**
[When setting surround (operations)]
PRO LOGIC (VSX-D506S): Turns Dolby Pro Logic ON/OFF.
SFC MODE (VSX-D506S): Switches the surround effects.
5-D THEATER (VSX-D506S): When turned ON, the rear channel sound becomes stereo-like (deep and clear).
TEST TONE: When turned ON (while in surround mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.
CENTER -, +: Adjusts the center level.
REAR -, +: Adjusts the rear level.
[Tuner Operations]
Number buttons: Use for setting the frequency value when the station call is selected or during direct access.
CLASS: Switches the CLASS number.
[VCR operations]
TV/VCR: Switches between TV/VCR.
[CD Operations]
DISC: Use to select the DISC number.
- ⑨ **FUNCTION button**
Switches the function.
- ⑩ **MULTI OPERATION button**
Use to set the multi operation.
- ⑪ **POWER button**
Turns ON/OFF the power of devices other than this unit.
- ⑫ **TV buttons**
- ⑬ **MODE CHECK button**
- ⑭ **COMMANDER SET UP button**
Use to control and learn operations of other manufacturer's equipment, and set multi operation functions.
- ⑮ **SYSTEM OFF button**
Use to turn OFF the power of all equipment connected to the main unit.

MODEL VSX-456

REMOTE CONTROL UNIT



① CD/LD buttons

(When the MODE switch is set to I.)
Sets CD.
DISC $-/+$, ■, II, ►, RANDOM, BEST, ◀◀, ▶▶
(When the MODE switch is set to II.)
Sets LD.
SIDE A/B, ■, II, ►, ◀◀, ▶▶, ◀◀◀, ▶▶▶

② DVD/TAPE buttons

(When the MODE switch is set to I.)
Sets DVD.
■, II, ►, ◀◀, ▶▶, ◀◀◀, ▶▶▶
(When the MODE switch is set to II.)
Sets TAPE DECK.
■, II, ◀, ►, DECK I/II, ◀◀, ▶▶

③ TV/TUNER buttons

(When the MODE switch is set to I.)
Sets AM/FM tuner.
STATION $-/+$, CLASS, MPX
(When the MODE switch is set to II.)
Sets TV.
TV CH (channel) $-/+$, TV VOL (volume) $-/+$

④ SURROUND ADJUSTMENT buttons

(When the MODE switch is set to I.)

CENTER LEVEL $-/+$

Adjusts the center level.

TEST TONE

When SFC MODE or DOLBY PRO LOGIC is ON, volume balance adjustment signals are output in order from each speaker and center/rear level can be adjusted.

(When the MODE switch is set to II.)

REAR LEVEL $-/+$

Adjusts the rear level.

C.MODE

Switches the center mode.

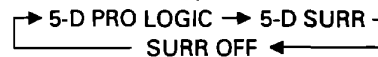
⑤ RECEIVER buttons

PRO LOGIC

Use to turn ON/OFF DOLBY PRO LOGIC surround.

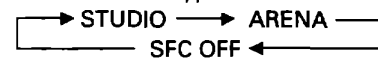
5-D THEATER

Use to select from 2 types of 5-D THEATER.



SFC MODE

Use to select from 2 types of SFC MODE.



FUNCTION

Use to switch the function.

TAPE 2 MONITOR

Use to turn ON the TAPE 2 MONITOR.

LOUD. (LOUDNESS)

When turned ON in low volume setting, the low and high range sound levels increase, making the sounds clearer.

⑥ POWER (RECEIVER) button

Use to switch the RECEIVER power to ON or STANDBY.

⑦ POWER (CD/LD, DVD/TV) buttons

(When the MODE switch is set to I.)

Use to turn ON/OFF the CD, DVD power.

(When the MODE switch is set to II.)

Use to turn ON/OFF the LD, TV power.

⑧ MODE switch

Use to switch the remote control unit modes.

⑨ TV FUNCTION button

Use to switch the TV function.

⑩ MUTING button

Turns ON when the volume is muted.

⑪ MASTER VOLUME $-/+$ buttons

Use to adjust the volume.

VSX-D506S, VSX-456

MODEL VSX-D506S

SPECIFICATIONS

Amplifier Section

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion (front).**

[Multi-voltage model only]

Continuous Power Output (DIN)

Front (1 kHz, T.H.D. 1 %, 8 Ω)

VSX-D506S 110 W + 110 W

[U.S. and Canadian models only]

Continuous Power Output

Front 100 W + 100 W (1 kHz, 0.8 %, 8 Ω)

Center 100 W (1 kHz, 0.8 %, 8 Ω)

Rear 100 W (1 kHz, 0.8 %, 8 Ω)

Input (Sensitivity/Impedance)

PHONO MM 2.8 mV/47 kΩ

LD/SAT, CD, VCR/TAPE 1, TAPE 2

DVD/TV, VIDEO 200 mV/47 kΩ

Phono Overload Level (T.H.D. 0.1 %, 1kHz)

PHONO MM 100 mV

Frequency Response

PHONO MM 20 Hz to 20,000 Hz ± 0.3 dB

LD/SAT, CD, VCR/TAPE 1, TAPE 2

DVD/TV, VIDEO 5 Hz to 100,000 Hz $_{-3}^{+0}$ dB

Output (Level/Impedance)

VCR/TAPE 1 REC, TAPE 2 REC 200 mV/2.2 kΩ

Tone Control

BASS ± 9 dB (100 Hz)

TREBLE ± 9 dB (10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)

PHONO MM

VSX-D506S 72 dB

LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO

VSX-D506S 96 dB

Signal-to-Noise Ratio [EIA, at 1 W (1kHz)]

PHONO MM 75 dB

LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO

VSX-D506S 79 dB

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

** Measured by Audio Spectrum Analyzer.

VIDEO Section

Input (Sensitivity/Impedance)

LD/SAT, VCR, DVD/TV, VIDEO 1 Vp-p/75 Ω

Output (Level/Impedance)

VCR REC, MONITOR TV 1 Vp-p/75 Ω

Frequency Response

LD/SAT, VCR, DVD/TV, VIDEO

→ MONITOR 5 Hz to 7 MHz $_{-3}^{+0}$ dB

Signal-to-Noise Ratio 55 dB

Cross Talk 55 dB

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz

Usable Sensitivity Mono: 11.2 dBf, IHF (1.0 μV/75 Ω)

50 dB Quieting Sensitivity Mono: 16.8 dBf

Stereo: 38.6 dBf

Signal-to-Noise Ratio Mono: 73 dB (at 85 dBf)

Stereo: 70 dB (at 85 dBf)

Distortion Stereo: 0.5 % (1kHz)

Alternate Channel Selectivity 60 dB (400 kHz)

Stereo Separation 40 dB (1 kHz)

Frequency Response 30 Hz to 15 kHz (± 1) dB

Antenna Input 75 Ω unbalanced

AM Tuner Section

Frequency Range 531 kHz to 1,602 kHz (9 kHz step)

530 kHz to 1,700 kHz (10 kHz step)

Sensitivity (IHF, Loop antenna) 350 μV/m

Selectivity 25 dB

Signal-to-Noise Ratio 50 dB

Antenna Loop antenna

Miscellaneous

Power Requirements

U.S. and Canadian models AC 120 V, 60 Hz

Multi-voltage model AC 110 V/120-127 V/220 V/240 V

(Switchable), 50/60 Hz

Power Consumption

U.S. and Canadian models

VSX-D506S 260 W, 360 VA

Multi-voltage model

VSX-D506S 265 W

In Standby Condition 2.5 W

AC Outlet (Multi-voltage, U.S. and Canadian models only)

U.S. and Canadian models

SWITCHED 100 W (0.8 A) MAX

Multi-voltage model

SWITCHED 100 W MAX

Dimensions

VSX-D506S 420 (W) × 155 (H) × 374 (D) mm

16-9/16 (W) × 6-1/8 (H) × 14-3/4 (D) in

Weight (without package)

VSX-D506S

U.S. and Canadian models 9.1 kg (20 lb 1 oz)

Multi-voltage model 9.2 kg (20 lb 5 oz)

Furnished Parts

FM Antenna 1

AM Loop Antenna 1

Dry Cell Batteries (AA/LR6) 2

Remote Control Unit 1

Operating Instructions 1

Sub instruction manual (Remote Control Unit) 1

NOTE:

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

MODEL VSX-456

SPECIFICATIONS

Amplifier section

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion (front).**

[Multi-voltage model only]

Continuous Power Output (DIN)

Front (1kHz, T.H.D. 1 %, 8 Ω) 110 W + 110 W

Continuous Power Output

Front 100 W + 100 W (1kHz, 0.8 %, 8 Ω)

Center 100 W (1kHz, 0.8 %, 8 Ω)

Rear 100 W + 100 W (1kHz, 0.8 %, 8 Ω)

Input (Sensitivity/Impedance)

PHONO MM 2.8 mV/47 kΩ

CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT

..... 200 mV/47 kΩ

Phono Overload level (T.H.D. 0.1 %, 1kHz)

PHONO MM 100 mV

Frequency Response

PHONO MM 20 Hz to 20,000 Hz ± 0.3 dB

CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT

..... 5 Hz to 100,000 Hz ± 0.3 dB

Output (Level/Impedance)

VCR/TAPE 1 REC, TAPE 2 REC 200 mV/2.2 kΩ

VIDEO OUT 200 mV/2.2 kΩ

Tone Control

BASS ± 9 dB (150 Hz)

TREBLE ± 9 dB (10 kHz)

LOUDNESS + 8 dB/+ 6 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)

PHONO MM 72 dB

CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT 96 dB

Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]

PHONO MM 75 dB

CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT 79 dB

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.

** Measured by Audio Spectrum Analyzer.

VIDEO Section

Input (Sensitivity/Impedance)

VCR, DVD/TV, LD/SAT 1 Vp-p/75 Ω

Output (Level/Impedance)

VCR 1 Vp-p/75 Ω

Frequency Response

VCR, DVD/TV, LD/SAT → MONITOR

..... 5 Hz to 7 MHz ± 0.3 dB

Signal-to-Noise Ratio 55 dB

Cross Talk 55 dB

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz

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Stereo Separation 40 dB (1 kHz)

Frequency Response 30 Hz to 15 kHz (±1) dB

Antenna Input 75 Ω unbalanced

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Sensitivity (IHF, Loop antenna) 350 μV/m

Selectivity 25 dB

Signal-to-Noise Ratio 50 dB

Antenna Loop antenna

Miscellaneous

Power Requirements

U.S. model AC 120 V, 60 Hz

Multi-voltage model ... AC 110 V/120-127 V/220 V/ 240 V

(Switchable), 50/60 Hz

Power Consumption

U.S. model 260 W, 360 VA

Multi-voltage model 264 W

In Standby Condition 7 W

AC Outlet

U.S. model

SWITCHED 100 W (0.8 A) MAX

Multi-voltage model

SWITCHED 100 W MAX

Dimensions 420 (W) × 155 (H) × 374 (D) mm

16-9/16 (W) × 6-1/8 (H) × 14-3/4 (D) in

Weight (without package)

U.S. model 9.1 kg (20 lb 1 oz)

Multi-voltage model 9.2 kg (20 lb 5 oz)

Furnished Parts

FM Antenna 1

AM Loop Antenna 1

Dry Cell Batteries

[size "AA" (IEC R6)] 2

Remote Control Unit 1

Operating Instructions 1

NOTE:

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

