

Service Manual

 **PIONEER**
The Art of Entertainment

ORDER NO.
RRV1811

AUDIO/VIDEO STEREO RECEIVER

VSX-05

●Refer to the service manual RRV1746 for VSX-D606S/
KUXJI.

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

Type	Model	Power Requirement	Remarks
	VSX-05		
KUXJI/CA	○	AC120V	

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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.
- Ref. No.: Numbers following P and hyphen (-) indicate the page(s) and location number(s) in the RRV1746 service manual, respectively.
- 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 $\rightarrow$ $56 \times 10^1 \rightarrow 561$ RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J

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

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

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

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

5.62 k Ω $\rightarrow$ $562 \times 10^1 \rightarrow 5621$ RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

CONTRAST TABLE

VSX-05/KUXJI/CA and VSX-D606S/KUXJI have the same construction except for the following :

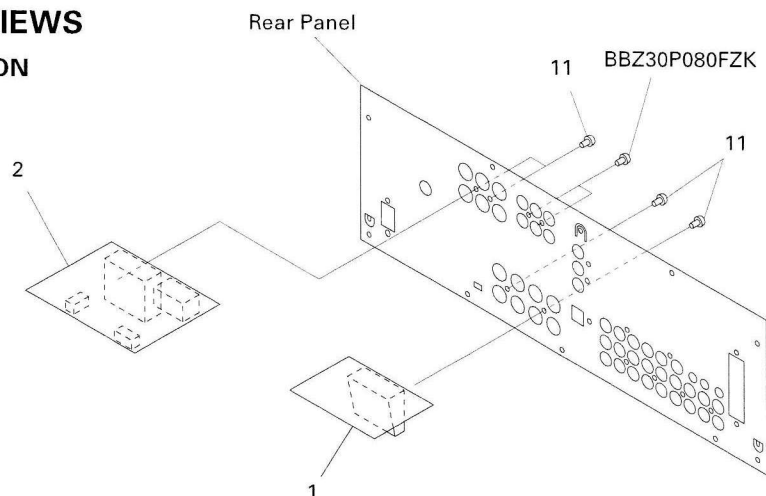
Ref. No.	Mark	Symbol & Description	Part No.		Remarks
			VSX-D606S	VSX-05	
			KUXJI	KUXJI/CA	
P3-3		PACKING			
P3-4		Operating Instructions (English)	ARB7091	ARB7119	
		Sub Instruction Manual (Remote Control Unit) (English)	ARH7015	ARH7019	
P3-5	NSP	Warranty Card	ARY1051	Not used	
P3-5	NSP	Warranty Card EL	Not used	ARY7007	
P3-7		Sub Instruction Manual (AC-3) (English)	ARH7016	Not used	
P3-7		Sub Instruction Manual (AC-3 & GUI) (English)	Not used	ARH7025	
P3-9		Remote Control Unit (CU-VSX116)	AXD7106	Not used	
P3-9		Remote Control Unit (CU-VSX120)	Not used	AXD7123	
P3-12		Packing Case	AHD7358	AHD7396	
		EXTERIOR			
	NSP	MOTHER ASSY	AWK7317	AWK7348	
P6-1		└ INPUT ASSY	AWZ8495	AWZ8614	
P6-11		└ REG. 2 ASSY	AWZ8498	AWZ8691	
	NSP	COMPLEX ASSY	AWK7318	AWK7350	
P6-7	NSP	└ PRIMARY ASSY	AWZ8865	AWZ8912	
P6-8		└ VIDEO/SR ASSY	AWZ8509	Not used	
P6-8		└ VIDEO/ISC ASSY	Not used	AWZ8511	
	NSP	└ FRONT SP ASSY	Not used	AWZ8500	No. 1
	NSP	FRONT & R/C AMP ASSY	AWK7316	AWK7349	
P6-10		└ R/C SPEAKER ASSY	AWZ8505	Not used	
P6-12		DOLBY DIGITAL ASSY	AWX7036	AWX7037	
	NSP	ELITE ASSY	Not used	AWK7330	
		└ R/C SP (ELITE) ASSY	Not used	AWZ8827	No. 2
P6-20		Leg Assy (Rear Side)	AMR2634	AMR2633	
P6-23		Rear Panel	ANC7480	ANC7524	
P6-39		Round Knob S	AAB7106	AAB7120	
P6-40		Jog Knob	AAB7048	AAB7121	
		Screw	Not used	ABA1007	No. 11

Ref. No.	Mark	Symbol & Description	Part No.		Remarks
			VSX-D606S	VSX-05	
			KUXJI	KUXJI/CA	
P7-2 P7-3	NSP NSP	FRONT PANEL SECTION FRONT & R/C AMP ASSY └ FRONT INPUT ASSY └ FL/U-COM ASSY	AWK7316 AWZ8502 AWZ8499	AWK7349 AWZ8640 AWZ8615	
P7-6 P7-7 P7-12 P7-13		Tuner Button Input Button Sub Panel Front Panel Plate Spring	AAD7326 AAD7327 AAP7025 AMB7391 Not used	Not used Not used AAP7026 AMB7417 ABK7011	No. 3
		Door Hinge L Door Hinge R Damper Assy Door Panel PVC Panel	Not used Not used Not used Not used Not used	AMR7171 AMR7172 AXA7046 AAK7348 AAK7354	No. 4 No. 5 No. 6 No. 7 No. 8
		Door Plate Screw	Not used Not used	ANG7122 ABA7023	No. 9 No. 10

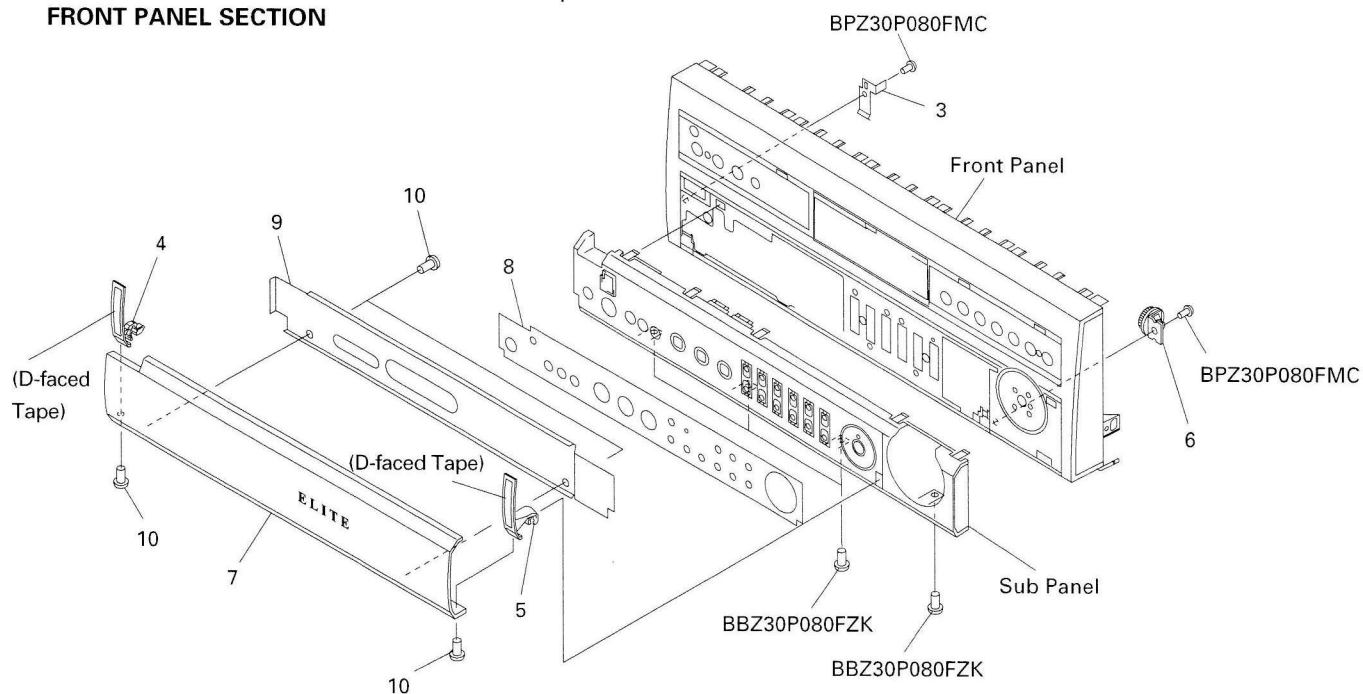
Note: The numbers in the remarks column correspond to the numbers on the exploded diagram. Refer to "EXPLODED VIEWS".

EXPLODED VIEWS

EXTERIOR SECTION



FRONT PANEL SECTION



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REMOTE CONTROL UNIT

AXD7123 (CU-VSX120) and AXD7106 (CU-VSX116) have the same construction except for the following :

Ref. No.	Mark	Symbol & Description	Part No.		Remarks
			AXD7106 (CU-VSX116)	AXD7123 (CU-VSX120)	
P79-2 P79-4		Name Plate Rubber Sheet (B)	AZA7241 AZA7243	AZA7247 AZA7246	

INPUT ASSY

AWZ8614 and AWZ8495 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ8495	AWZ8614	
	Q403, Q404 R226 R465, R468 R466, R467 R469, R470	Not used RS3LMF270J Not used Not used Not used	2SC2878 ACN7031(22Ω/5W) RD1/4PU102J RD1/4PU223J RD1/4PU122J	
NSP	CN201 SPEAKER TERMINAL 8-P	AKE7006	Not used	
NSP	CN203 CONNECTOR (6P)	Not used	KPD6	
	CN220 CONNECTOR (4P)	KPD4	Not used	
	CN404 PIN JACK (4P)	AKB7015	Not used	
	CN404 PIN JACK (6P)	Not used	AKB7012	
NSP	J26 JUMPER WIRE	Not used	DYY08-100-2651	
NSP	J28 JUMPER WIRE	DYY04-150-2651	Not used	
	217 CABLE HOLDER (8P)	Not used	51052-0800	
	218 CABLE HOLDER (4P)	51052-0400	Not used	

REG.2 ASSY

AWZ8691 and AWZ8498 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ8498	AWZ8691	
	R228	RS2LMF331J	ACN7028 (82Ω/5W)	

DOLBY DIGITAL ASSY

AWX7037 and AWX7036 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWX7036	AWX7037	
	L9108 C9110 C9111 C9201, C9221, C9602, C9605 C9612, C9615, C9622, C9625	Not used Not used Not used CEV100M16 CEV100M16	VTL1019 CKSQYF104Z25 CEV470M6R3 ACH7039 (10μF/16V) ACH7039 (10μF/16V)	
	C9632, C9635, C9642, C9645 C9652, C9655 C9415, C9425, C9445, C9455 C9475, C9485 C9153, C9154	CEV100M16 CEV100M16 CEV220M16 CEV220M16 CKSQYB103K50	ACH7039 (10μF/16V) ACH7039 (10μF/16V) ACH7038 (22μF/16V) ACH7038 (22μF/16V) CKSQYB223K50	
	R9111 R9638 JA9104 OPTICAL RECEIVER MODULE	Not used RS1/10S0R0J Not used	RS1/10S101J Not used TORX176	

PRIMARY ASSY

AWZ8912 and AWZ8865 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ8865	AWZ8912	
	D54, D55 C52	1SS252 CEAS471M16	1SS254 CEAS102M16	

FL/U-COM ASSY

AWZ8615 and AWZ8499 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ8499	AWZ8615	
	IC901 IC902 Q907 D921 S922	PDG203A Not used Not used 1SS252 ASX7001	PDG193A S-24C16ADP KRC103M Not used ASX7009	
	C902 (0.22F) C1911, C1912, C1915—C1918 C1921, C1922 R902 R921	ACH7058 CEAS100M50 CEAS2R2M50 RD1/4PU101J RD1/4PU473J	Not used CEJA100M50 CEJA2R2M50 Not used Not used	
	R927—R929 R945 R946 VR1901, VR1902 (30kΩ-20A x 2) VR1903 (500kΩ-B) J13 JUMPER WIRE	Not used Not used Not used ACS7020 ACS1016 D15A07-600-2651	RD1/4PU472J RD1/4PU103J RD1/4PU221J ACS7021 ACS7022 D15A12-600-2651	
NSP				

PCB PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
QF FRONT SP ASSY					C9023		CCCSL121J50
					C1868		CCCSL221J50
OTHERS					C1853		CEANP4R7M50
	1203	CABLE HOLDER 4P	51052-0400		C1863, C1884		CEAS101M10
	CN1201	SPEAKER TERMINAL 8P	AKE7036		C1861		CEAS101M16
					C1865, C1871		CEAS1R0M50
					C1851, C1872, C1876, C1882		CEAS470M25
					C857, C858, C860		CEAS470M25
					C1852, C854, C856		CEAS471M6R3
					C851—C853, C864		CEAS4R7M50
					C1867		CEASR47M50
					C1870		CGCYX473M25
					C863		CKCYB102K50
					C1869		CKCYB332K50
					C1866		CKCYB471K50
					C1864		CKCYB561K50
					C1862, C1873, C1877, C801		CKCYF103Z50
					C1881, C1886, C1887		CKPUYB101K50
				RESISTORS			
					R1853, R860, R861		RD1/2PM271J
					Other Resistors		RD1/4PU□□□J
				OTHERS			
					801, 802	RCA PIN JACK	AKB7018
					1801	MINI JACK	AKN7002
					CN802	CONNECTOR (12P)	KPE12
					CN804	CONNECTOR (4P)	KPE4
SEMICONDUCTORS							
	IC851		LA7952				
	IC1851		MM1067XD				
	IC1853		NJM79L05A				
	IC1852		PD6178A				
	Q1801, Q801, Q855		2SA933S				
	Q1851, Q1853, Q1898, Q1899		2SC1740S				
	Q851—Q854		2SC1740S				
	Q802		KRC103M				
	D1801, D1802, D1851, D801, D802		1SS252				
	D851—D853		1SS252				
	D1803, D1804		1SS254				
COILS AND FILTERS							
	L1851		LAU220J				
CAPACITORS							
	C1878, C1879		CCCCH150J50				
	C1880, C1883		CCCCH330J50				
	C9022, C9042		CCCSL100D50				

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Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	JA803, JA807	JACK	RKN1004				
X1852		CRYSTAL RESONATOR (14.31818MHz)	ASS1056				
X1851		CERAMIC RESONATOR (503kHz)	ASS1112				

FF FRONT INPUT ASSY

CAPACITORS

C3984—C3986

CGCYX473M16

RESISTORS

R3991, R3992
Other Resistors

RS2LMF331J
RD1/4PU□□□J

OTHERS

CN3981 PIN JACK 4P
CN3991 HEADPHONE JACK
CN3993 PLUG 5-P

AKB7085
AKN7001
KM250MA5

JF R/C SP (ELITE) ASSY

SEMICONDUCTORS

Q151 2SC1740S
Q161—Q163 2SC2878
D151, D152 1SS252

COILS AND FILTERS

L154—L156 (0.7μH) ATH1004

SWITCHES AND RELAYS

RY151, RY152 ASR7001

CAPACITORS

C161, C163, C165 CFTXA473J50

RESISTORS

R183—R185 RD1/4PMF100J
R186—R188 RS1LMF100J
Other Resistors RD1/4PU□□□J

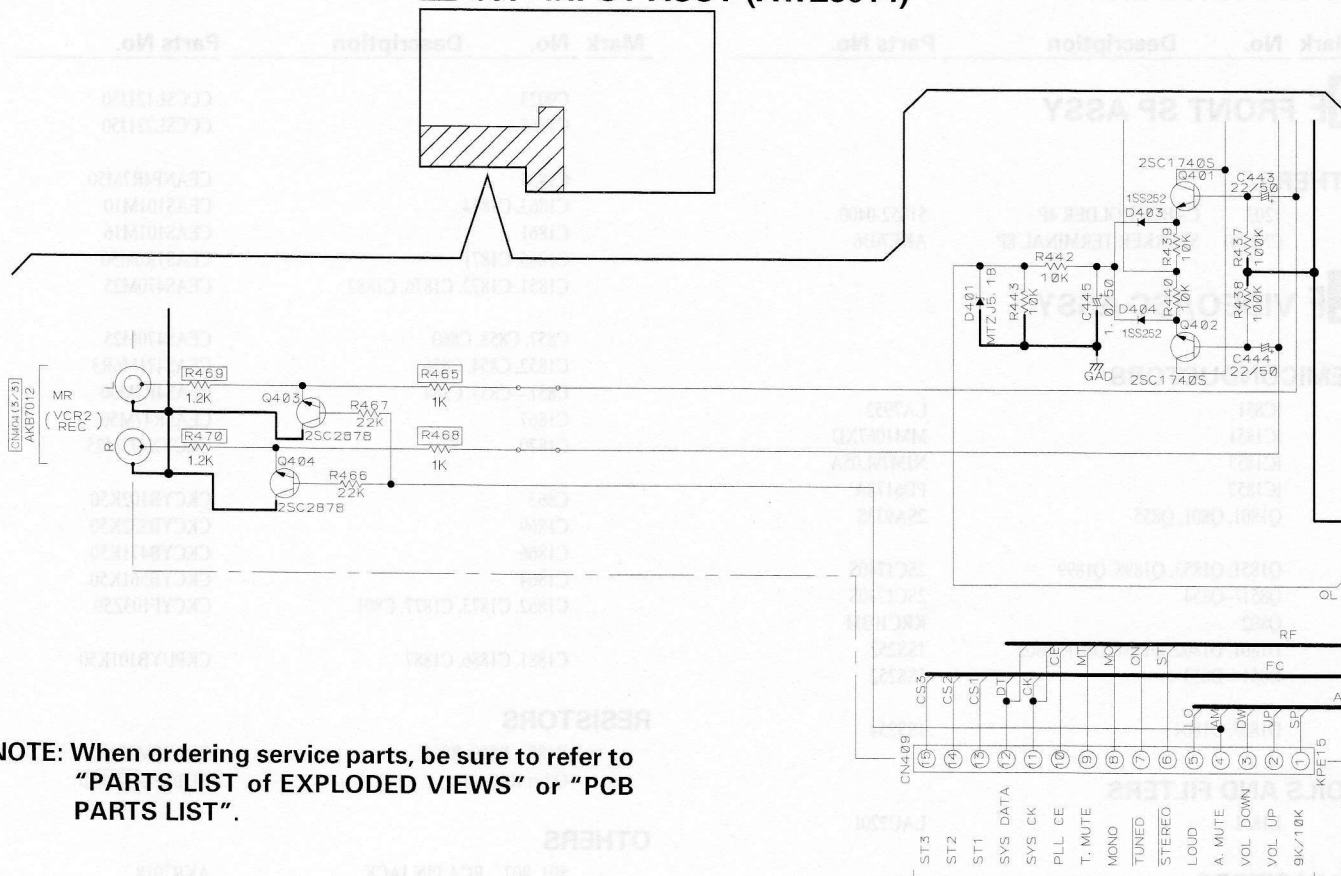
OTHERS

154 CABLE HOLDER 6P 51052-0600
CN152 PIN JACK 6P AKB7084
CN151 SPEAKER TERMINAL 6P AKE7037

2. SCHEMATIC DIAGRAM

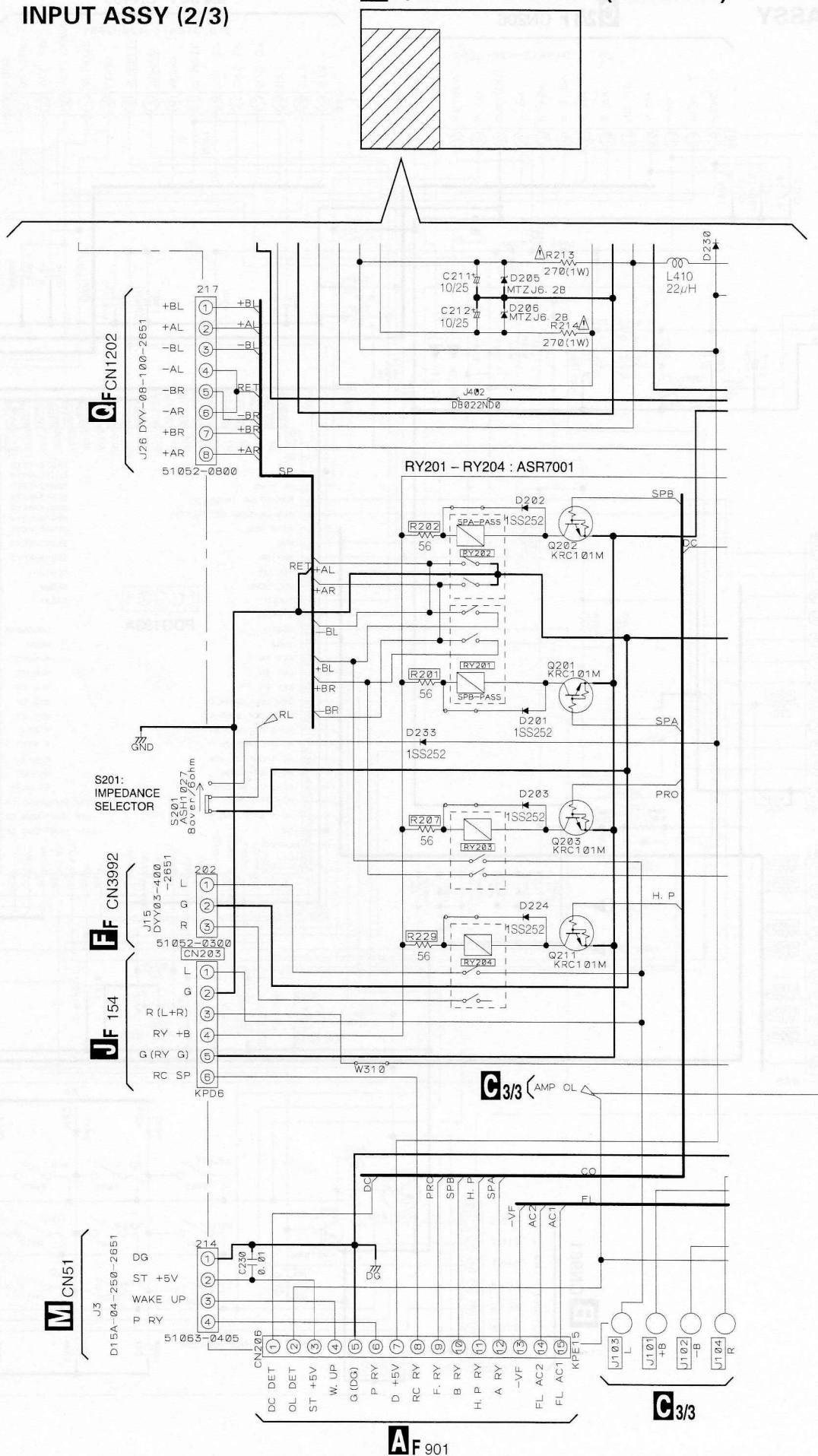
2.1 INPUT ASSY (1/3)

C1/3F INPUT ASSY (AWZ8614)



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

2.2 INPUT ASSY (2/3)

C2/3F INPUT ASSY (AWZ8614)

2.3 FL-U-COM ASSY

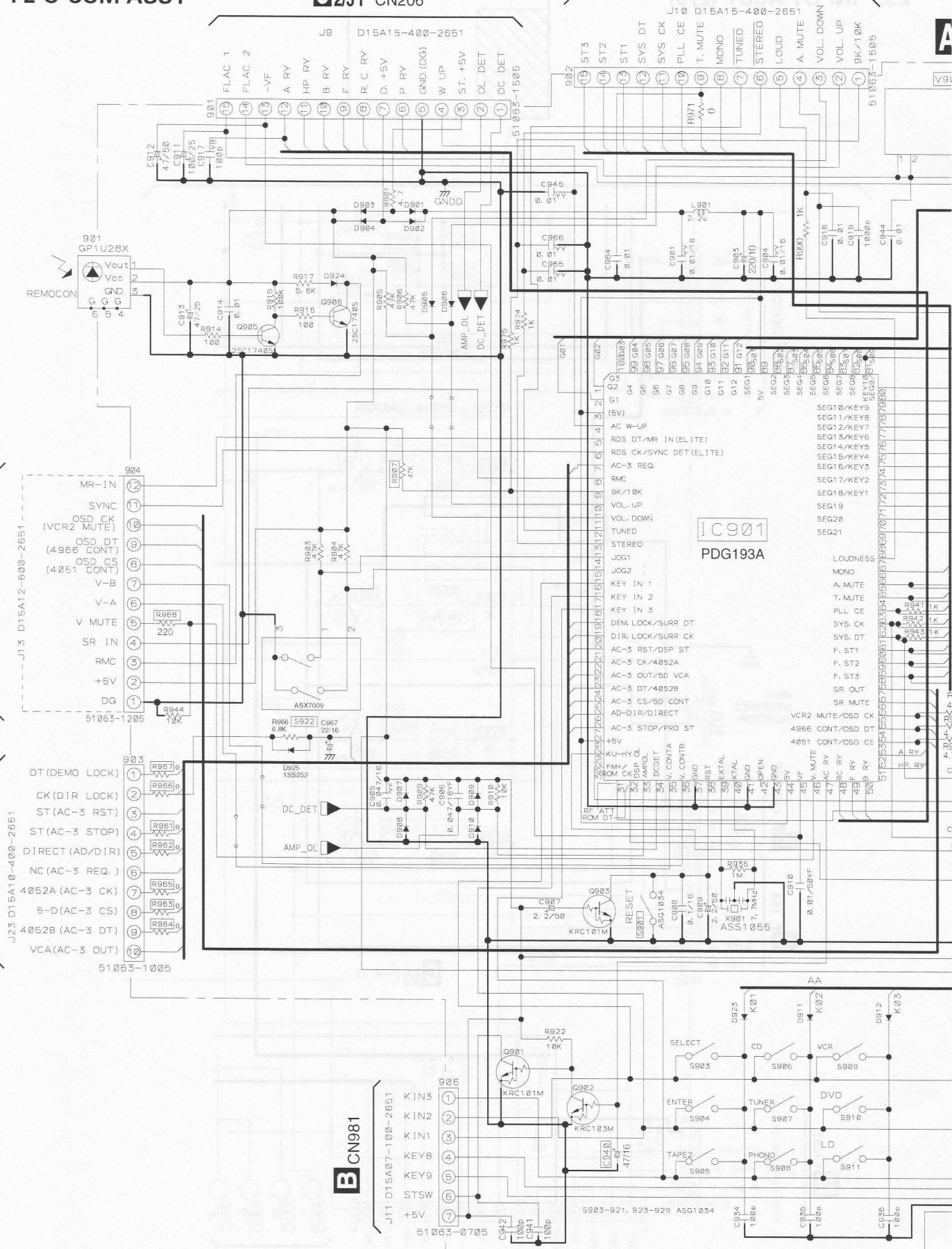
C2/3 F CN206

C1/3 F CN409

LF CN802

H3/4 CN9301

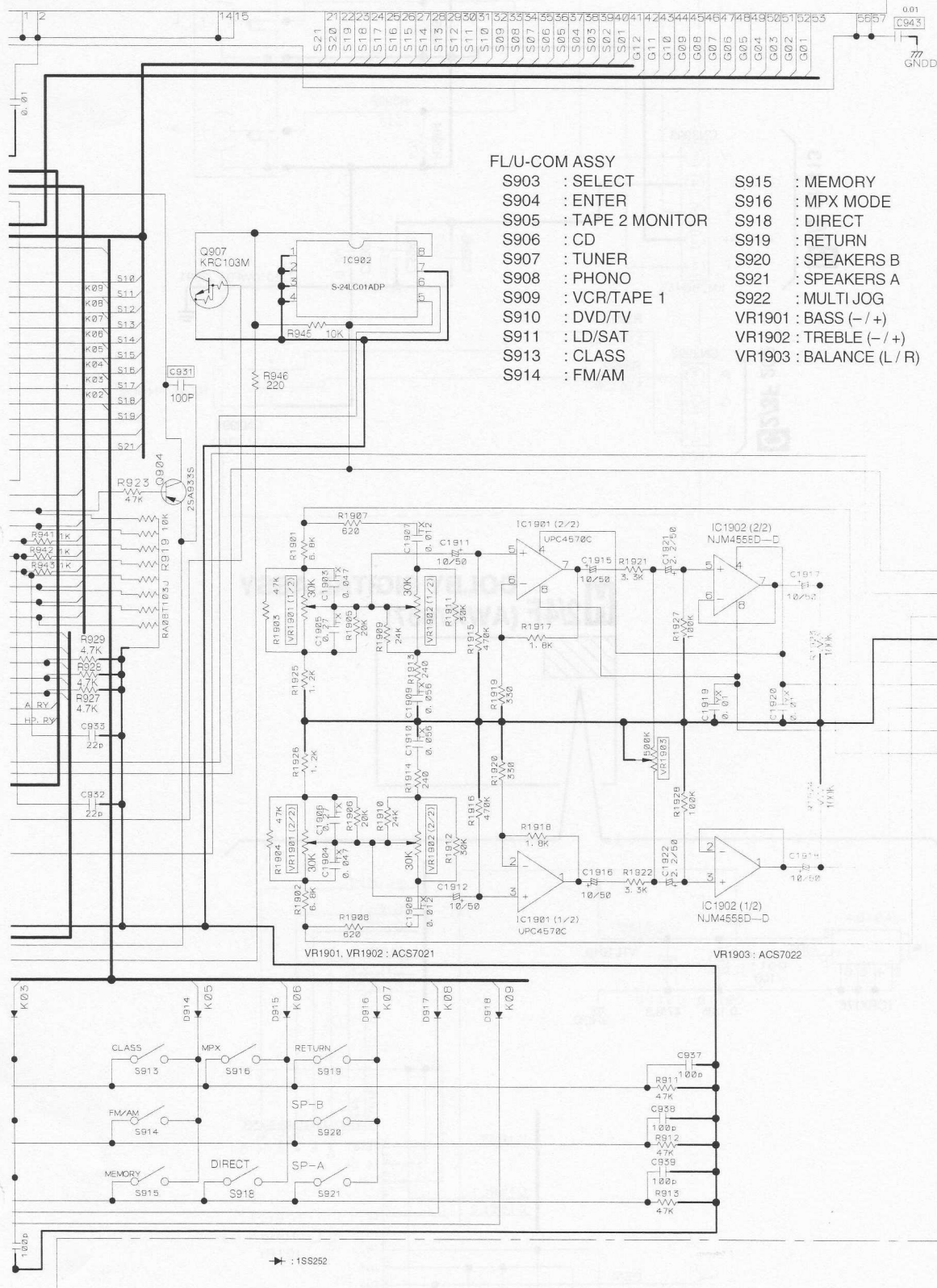
B CN981



AF FL/U-COM ASSY (AWZ8615)

V901

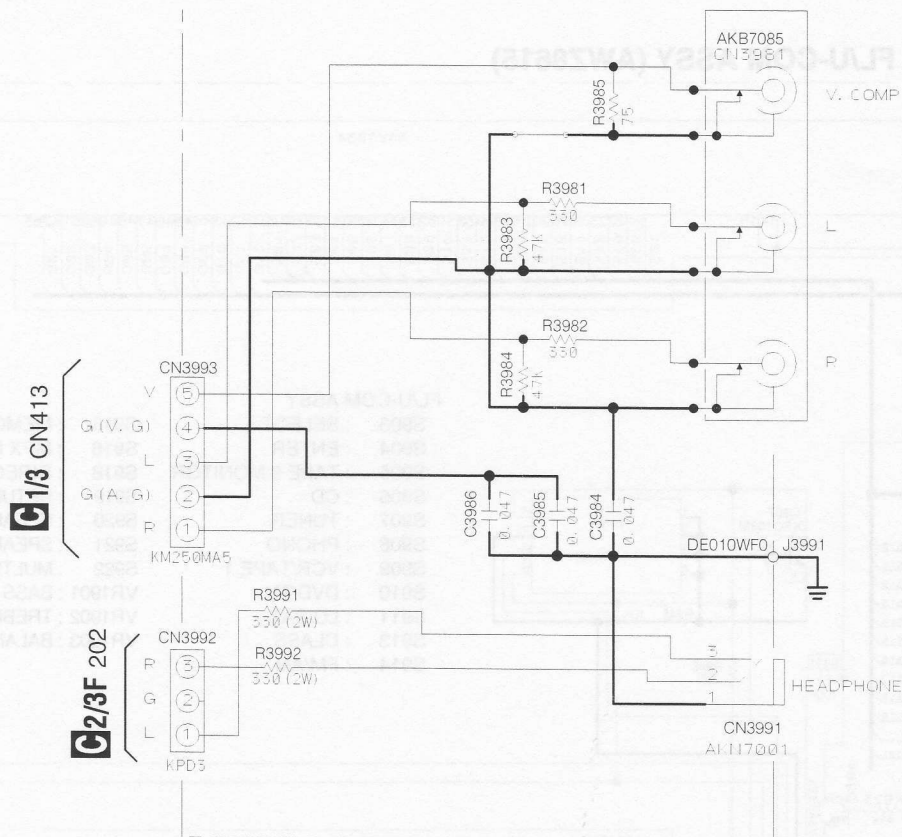
AAV7034



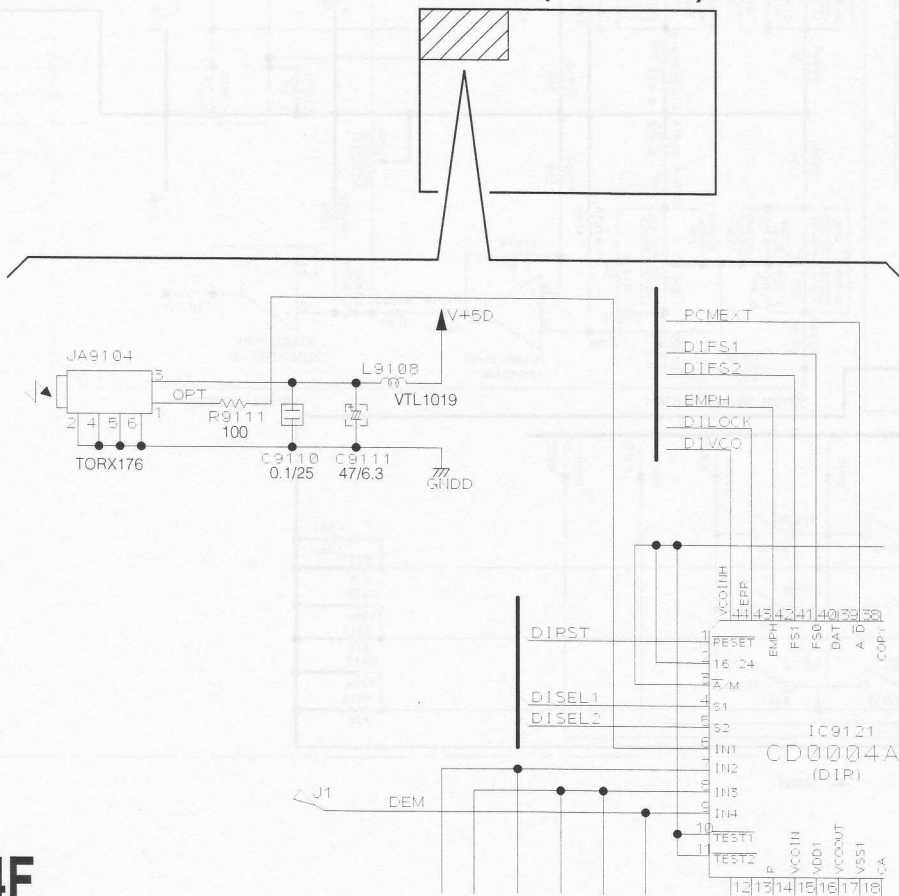
: 1SS252

2.4 FRONT INPUT ASSY AND DOLBY DIGITAL ASSY

F FRONT INPUT ASSY (AWZ8640)

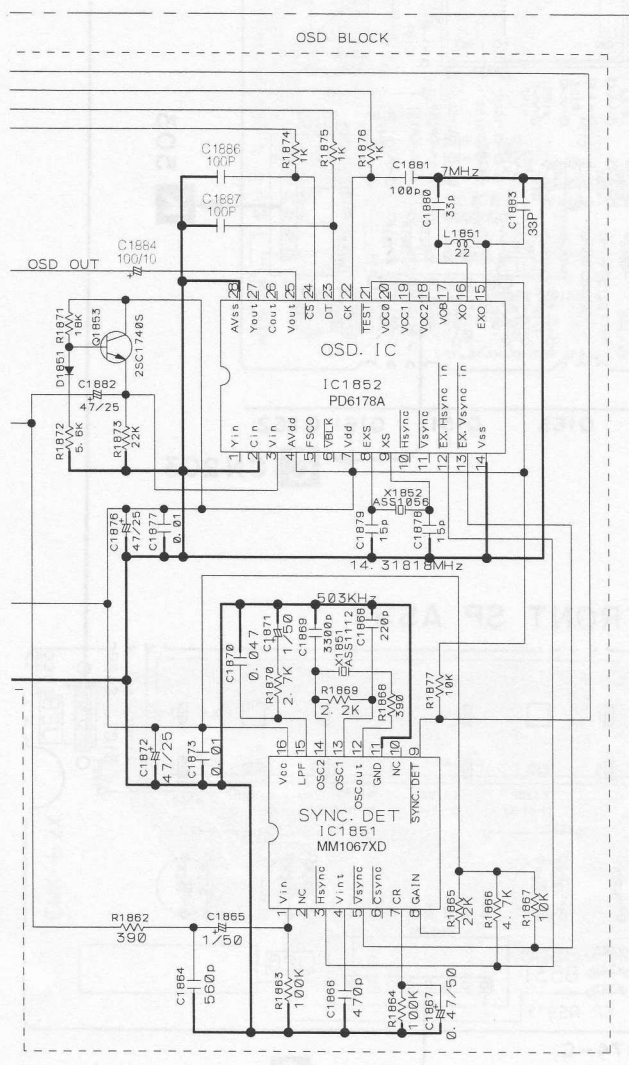
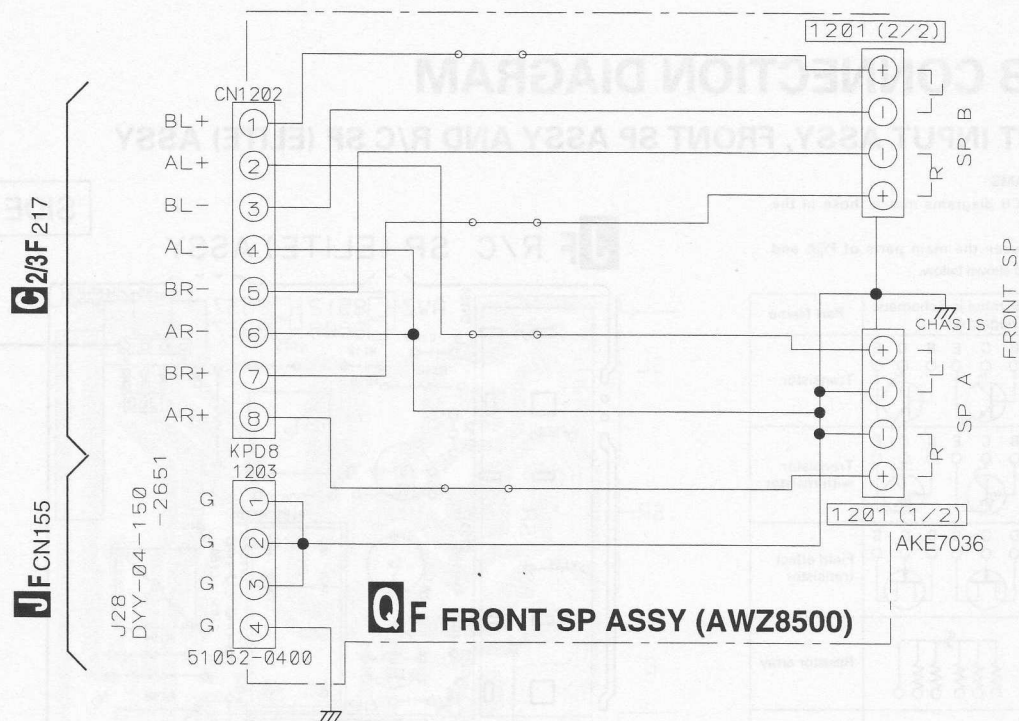


H2/4F DOLBY DIGITAL ASSY (AWX7037)









3. PCB CONNECTION DIAGRAM

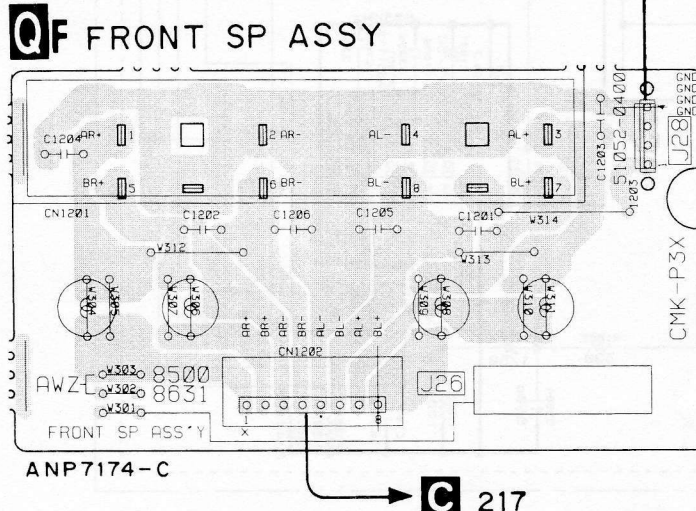
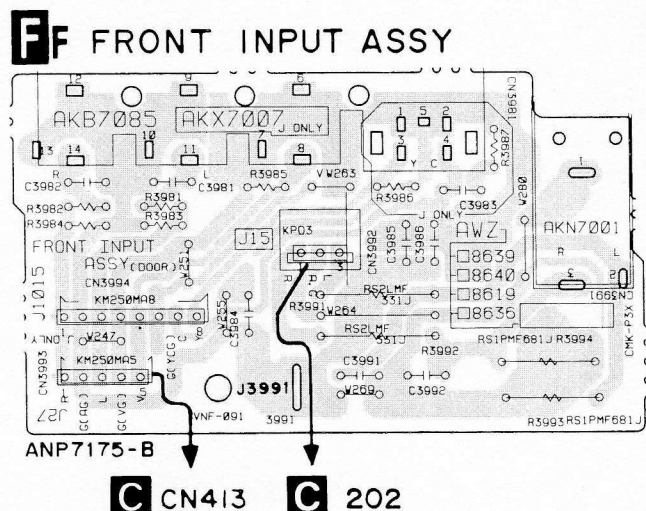
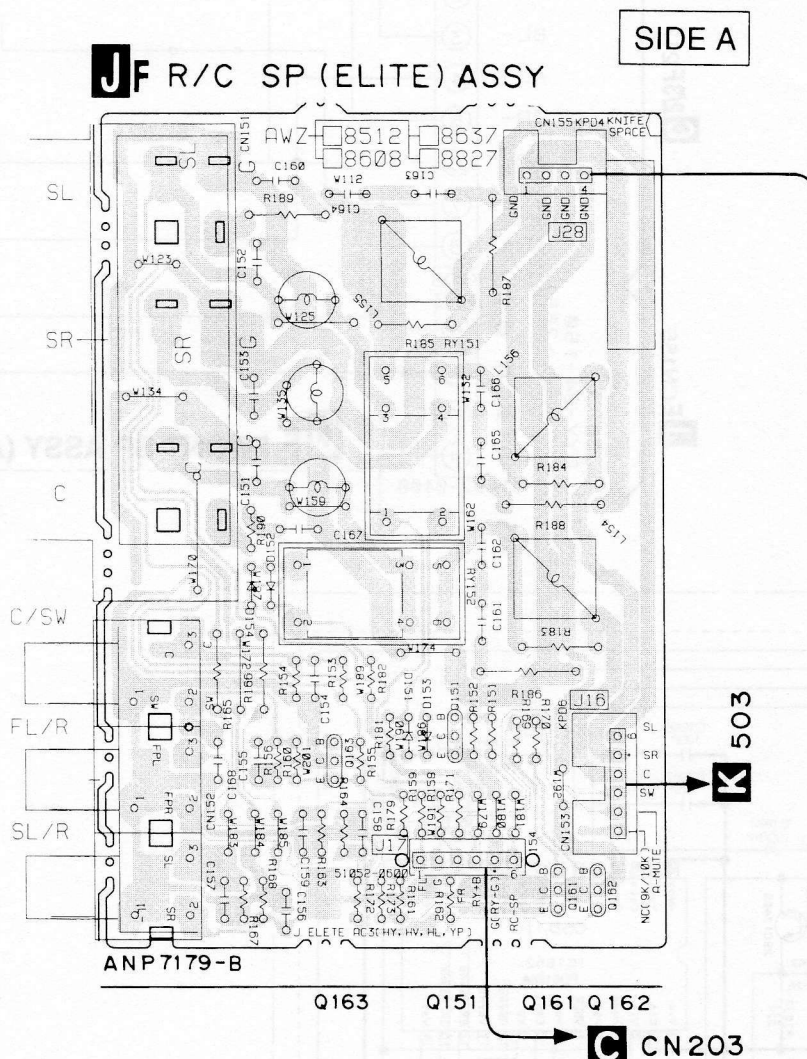
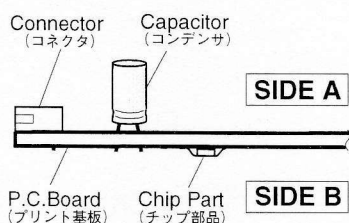
3.1 FRONT INPUT ASSY, FRONT SP ASSY AND R/C SP (ELITE) ASSY

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

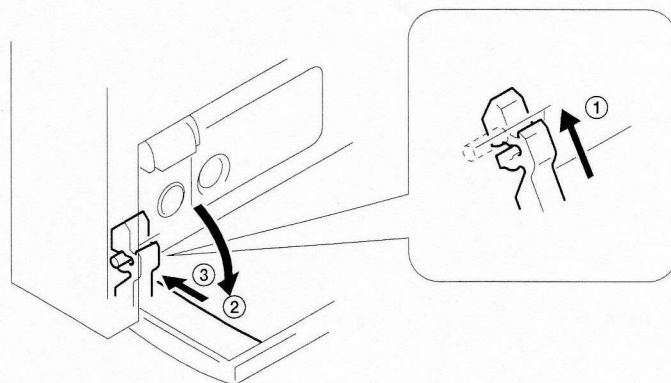
3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. Viewpoint of PCB diagrams



4. GENERAL INFORMATION

4.1 ATTACHING THE DOOR PANEL

- ① Slide the Door Panel slantways.
- ② Rotate it so that it is horizontal.
- ③ Push it straight in.



- ④ Move it downwards a little, and push in with bending it.

