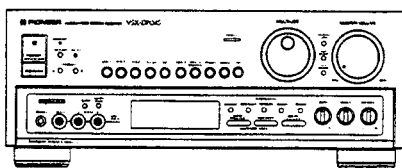


# Service Manual

**PIONEER®**  
The Art of Entertainment



• The above illustration shows VSX-D704S.

ORDER NO.  
RRV1237

AUDIO/VIDEO STEREO RECEIVER

# VSX-D704S

## VSX-79

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

Type	Model		Power Requirement	The voltage can be converted by the following method.
	VSX-D704S	VSX-79		
KU	○	—	AC120V	—
KC	○	—	AC120V	—
SD	○	—	AC110V/120-127V/220V/240V	With the voltage selector
KU/CA	—	○	AC120V	—

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# 1. SAFETY INFORMATION

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



**WARNING**

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.

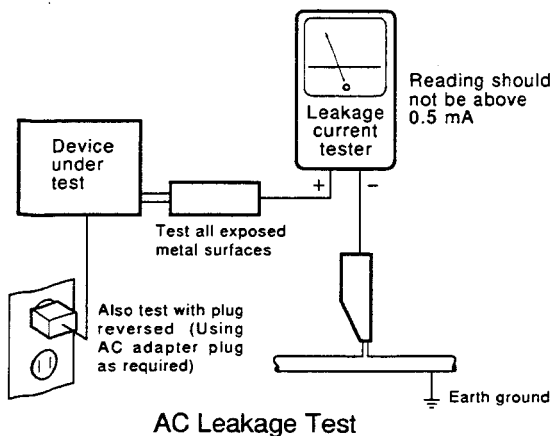
(FOR USA MODEL ONLY)

## 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  $\Delta$  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.

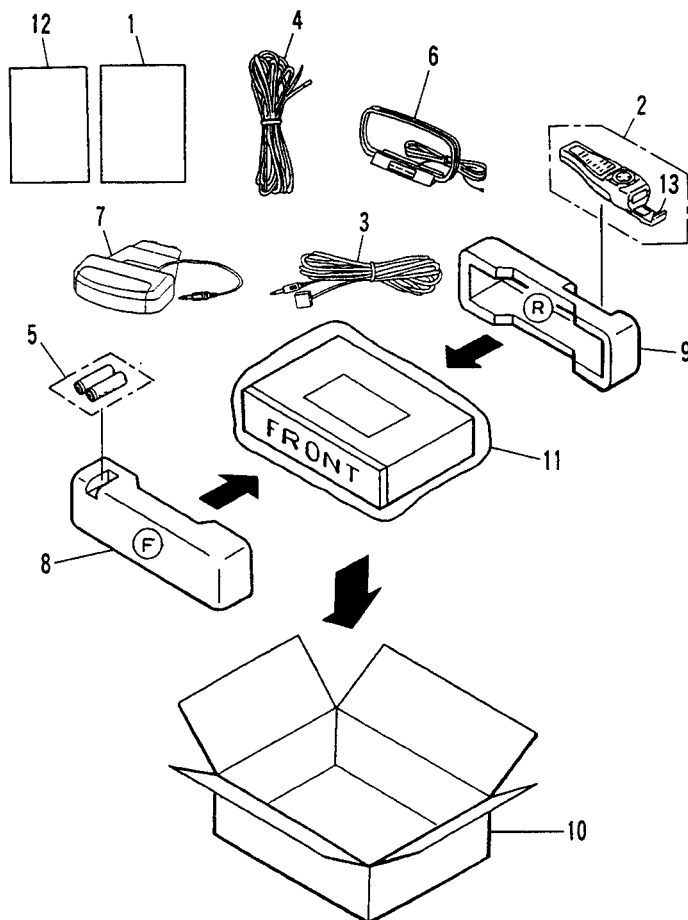
## 2. EXPLODED VIEWS, PACKING AND PARTS LIST

**NOTES :**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

### 2.1 PACKING (for VSX – D704S/KU)

Mark	No.	Description	Parts No.
	1	OPERATING INSTRUCTIONS (English)	ARB7035
	2	REMOTE CONTROL UNIT (CU – VSX097)	AXD7055
	3	MINI REPEATER	ADF1002
	4	FM ANTENNA	ADH1004
NSP	5	BATTERY (R6P, AA)	AEX – 010
	6	LOOP ANTENNA ASSY	ATB1005
	7	MAIN REPEATER	AXF1079
	8	FRONT PAD	AHA7056
	9	REAR PAD	AHA7057
	10	PACKING CASE	AHD7138
	11	PACKING SHEET	AHG1021
	12	ATTENTION SHEET (READ BEFORE USING) (English/French/Spanish/Chinese)	ARM7007
	13	BATTERY COVER	AZN7187



## 2.2 EXPLODED VIEWS (for VSX – D704S/KU)

### 1. EXTERIOR

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	CHASSIS	ANA7018	51	VOLUME KNOB	AAB2225	
	2	FOOT ASSY	AMR2414	52	BALANCE KNOB	AAB2226	
NSP	3	PCB HOLDER	AEC1097	53	BADGE	AAM1058	
NSP	4	PCB MOLD	AMR1525	54	BONNET	ANE7067	
	5	L TYPE HOLDER	ANG1903	55	SCREW	FBT40P060FZK	
	6	SCREW	ABA1009				
	7	POWER SUPPLY ASSY	AWZ7619				
	8	REAR PANEL	ANC7194				
	9	TERMINAL SCREW	AKE – 031				
	10	CONNECTION ASSY	AWZ7630				
NSP	11	TUNER ASSY	AWE1140				
	12	SCREW	ABA – 298				
	13	SCREW	ABA1018				
	14	SCREW	ABA1053				
	15	SCREW	BPZ30P060FZK				
	16	RIVET	AMR1066				
	17	.....					
	18	.....					
	19	AUDIO FUNCTION ASSY	AWZ7634				
	20	A/V FUNCTION ASSY	AWZ7636				
	21	VIDEO FUNCTION ASSY	AWZ7638				
	22	S+SR, MR, IR ASSY	AWZ7645				
	23	CAPACITOR (C400)	CKDYF102Z50				
NSP	24	R.C SP. ASSY	AWZ7626				
NSP	25	FRONT SP. ASSY	AWZ7623				
	26	PRIM ASSY	AWZ7620				
△	27	FUSE (10A/125V, FU1)	AEK1035				
	28	REG. ASSY	AWZ7617				
△	29	STRAIN RELIEF	AEP – 113				
△	30	AC POWER CORD	ADG1146				
	31	65 LABEL	ORW1069				
△	32	POWER TRANSFORMER (AC120V, T1)	ATS7058				
	33	.....					
	34	.....					
	35	.....					
NSP	36	TRANS ASSY	AWZ7622				
△	37	FUSE (3.15A/125V, FU3, FU4)	AEK – 124				
	38	.....					
	39	.....					
	40	TONE ASSY	AWZ7642				
	41	VOLUME HOLDER	ANG1902				
	42	VOLUME ASSY	AWZ7616				
	43	BINDER	AEP – 215				
	44	SCREW	VMZ30P060FCU				
NSP	45	MOLD HOLDER	ANG7021				
	46	BINDER	AEC – 093				
	47	DOL. PRO. MOD. 1020	AXQ1022				
	48	PCB HOLDER	AEC1534				
	49	DISPLAY PANEL	AAK7147				
	50	JOG DIAL	AAB2224				

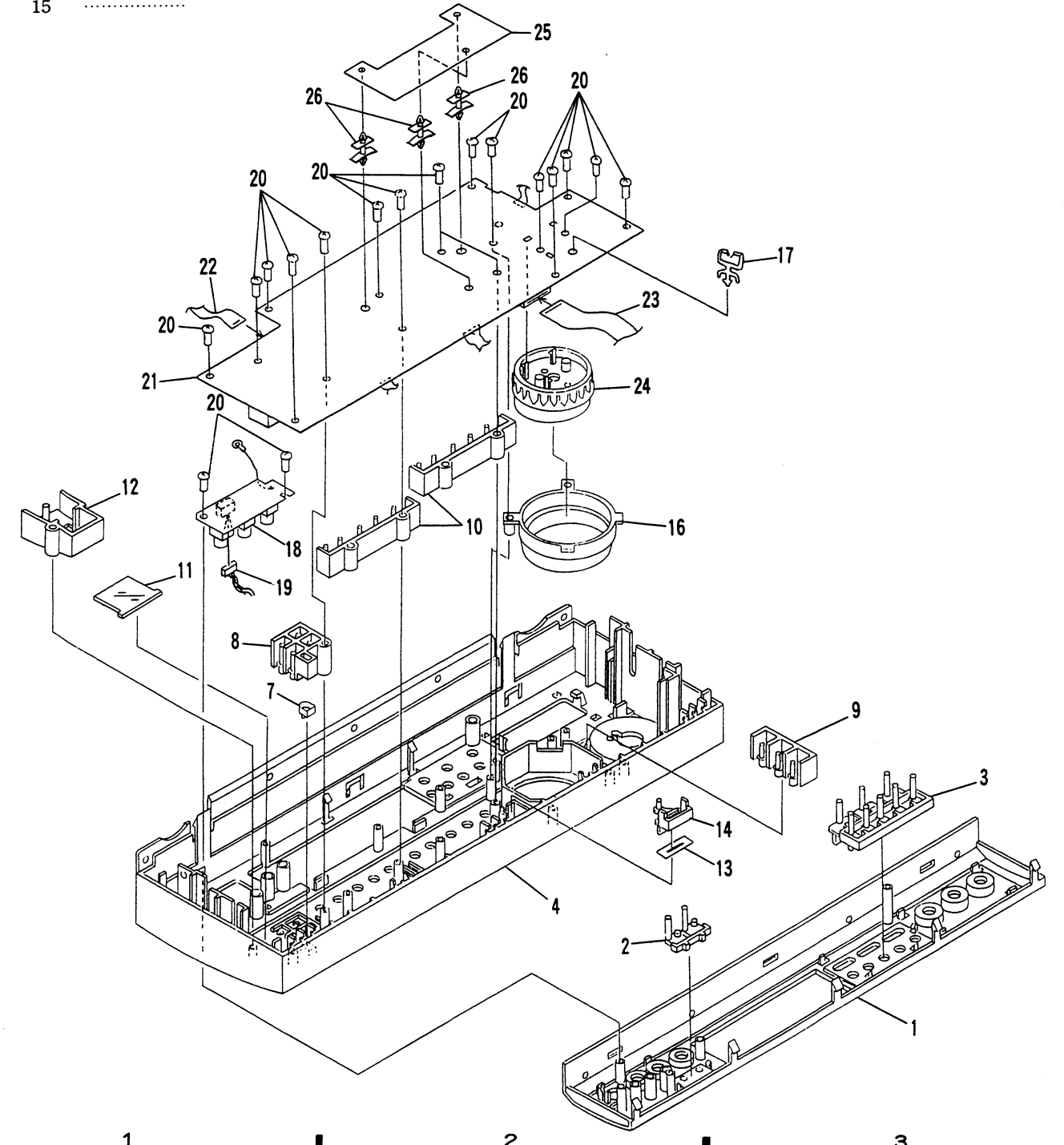




**2. FRONT PANEL SECTION**

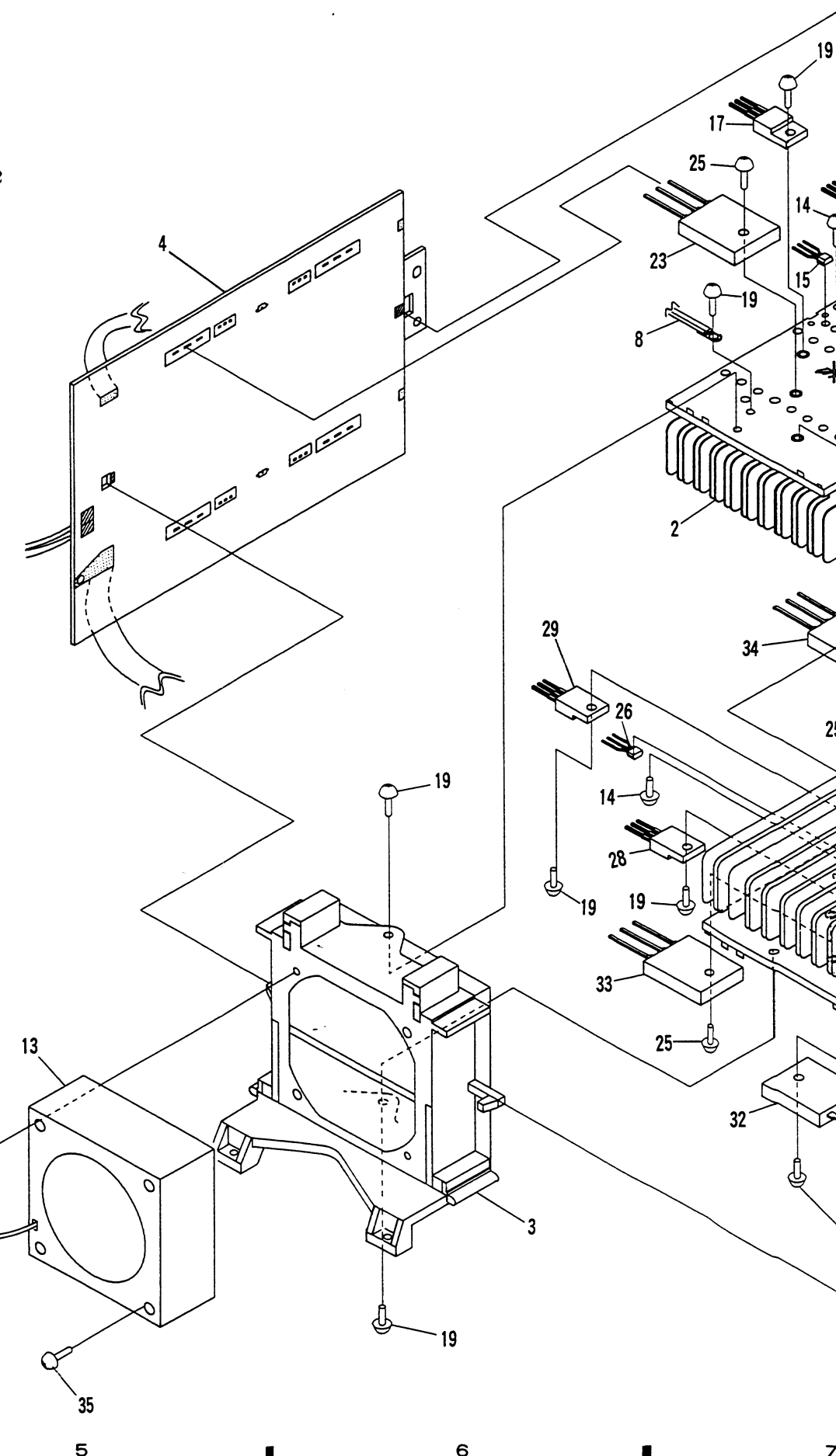
Mark	No.	Description	Parts No.
	1	CENTER PANEL	AAK7152
	2	GUI MODE BUTTON	AAD4048
	3	TX BUTTON	AAD4050
	4	FRONT PANEL	AMB7209
	5	.....	
	6	.....	
	7	LED LENS	PNW2019
	8	ASC BUTTON	AAD4049
	9	MUTE BUTTON	AAD4047
	10	FUNCTION BUTTON	AAD2470
	11	IR FILTER	AAK2575
	12	POWER BUTTON	AAD4052
NSP	13	SHEET	AED1160
	14	BUTTON B	AAD2472
	15	.....	

Mark	No.	Description	Parts No.
	16	RING	AAK2586
NSP	17	WIRE CRIP	AEC1535
NSP	18	VIDEO ASSY	AWZ7654
NSP	19	HOUSING 5P (J3)	ADX2096
	20	SCREW	BPZ26P080FMC
	21	FL UCOM ASSY	AWZ7649
	22	FLEXIBLE FLAT CABLE (J1)	ADD1114
	23	FLEXIBLE FLAT CABLE (J2)	ADD1134
	24	ESCUTCHEON	AAK2585
	25	LOGIC ASSY	AWZ7651
NSP	26	PCB SPACER	BEC1049



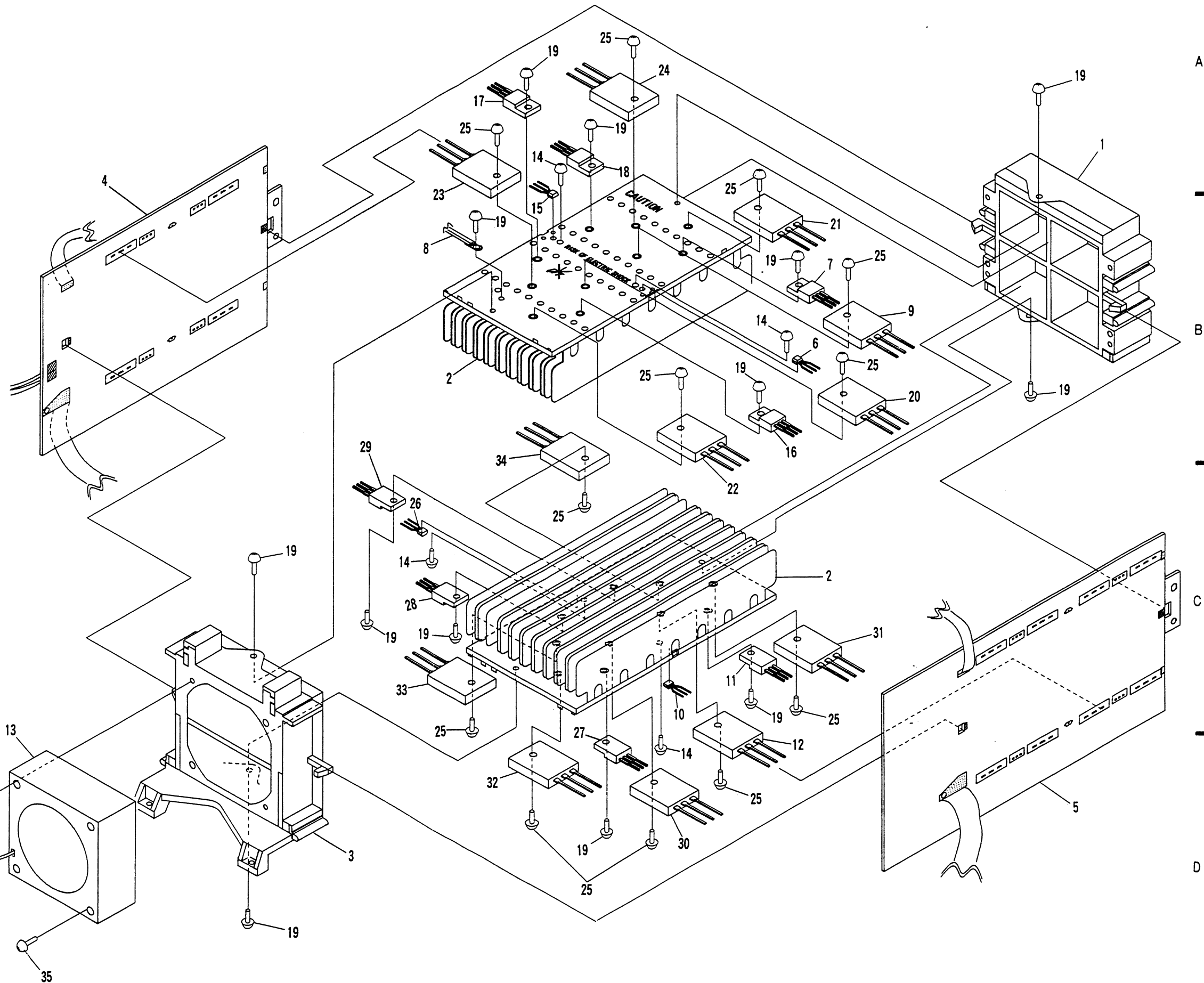
**3. POWER AMP SECTION**

Mark	No.	Description	Parts No.
	1	MOLD A	AMR7041
NSP	2	RADIATOR	ANH7013
	3	MOLD B	AMR7042
	4	AMP ASSY C, S FAN_CN	AWZ7698
	5	AMP ASSY 200W	AWZ7776
△	6	TRANSISTOR (Q209)	2SC1740S
△	7	TRANSISTOR (Q23)	2SA1837
△	8	THERMISTOR (TH1)	150-203-73002
△	9	TRANSISTOR (Q3)	2SA1302
△	10	TRANSISTOR (Q210)	2SC1740S
△	11	TRANSISTOR (Q21)	2SC4793
△	12	TRANSISTOR (Q1)	2SC3281
△	13	FAN MOTOR	AXM7005
△	14	SCREW	ABA-283
△	15	TRANSISTOR (Q309)	2SC1740S
△	16	TRANSISTOR (Q24)	2SA1837
△	17	TRANSISTOR (Q33)	2SA1837
△	18	TRANSISTOR (Q34)	2SA1837
△	19	SCREW	ABA-298
△	20	TRANSISTOR (Q4)	2SA1302
△	21	TRANSISTOR (Q7)	2SA1302
△	22	TRANSISTOR (Q8)	2SA1302
△	23	TRANSISTOR (Q11)	2SA1302
△	24	TRANSISTOR (Q12)	2SA1302
△	25	SCREW	ABA1037
△	26	TRANSISTOR (Q310)	2SC1740S
△	27	TRANSISTOR (Q22)	2SC4793
△	28	TRANSISTOR (Q31)	2SC4793
△	29	TRANSISTOR (Q32)	2SC4793
△	30	TRANSISTOR (Q2)	2SC3281
△	31	TRANSISTOR (Q5)	2SC3281
△	32	TRANSISTOR (Q6)	2SC3281
△	33	TRANSISTOR (Q9)	2SC3281
△	34	TRANSISTOR (Q10)	2SC3281
△	35	SCREW	BPZ30P350FZK



### 3. POWER AMP SECTION

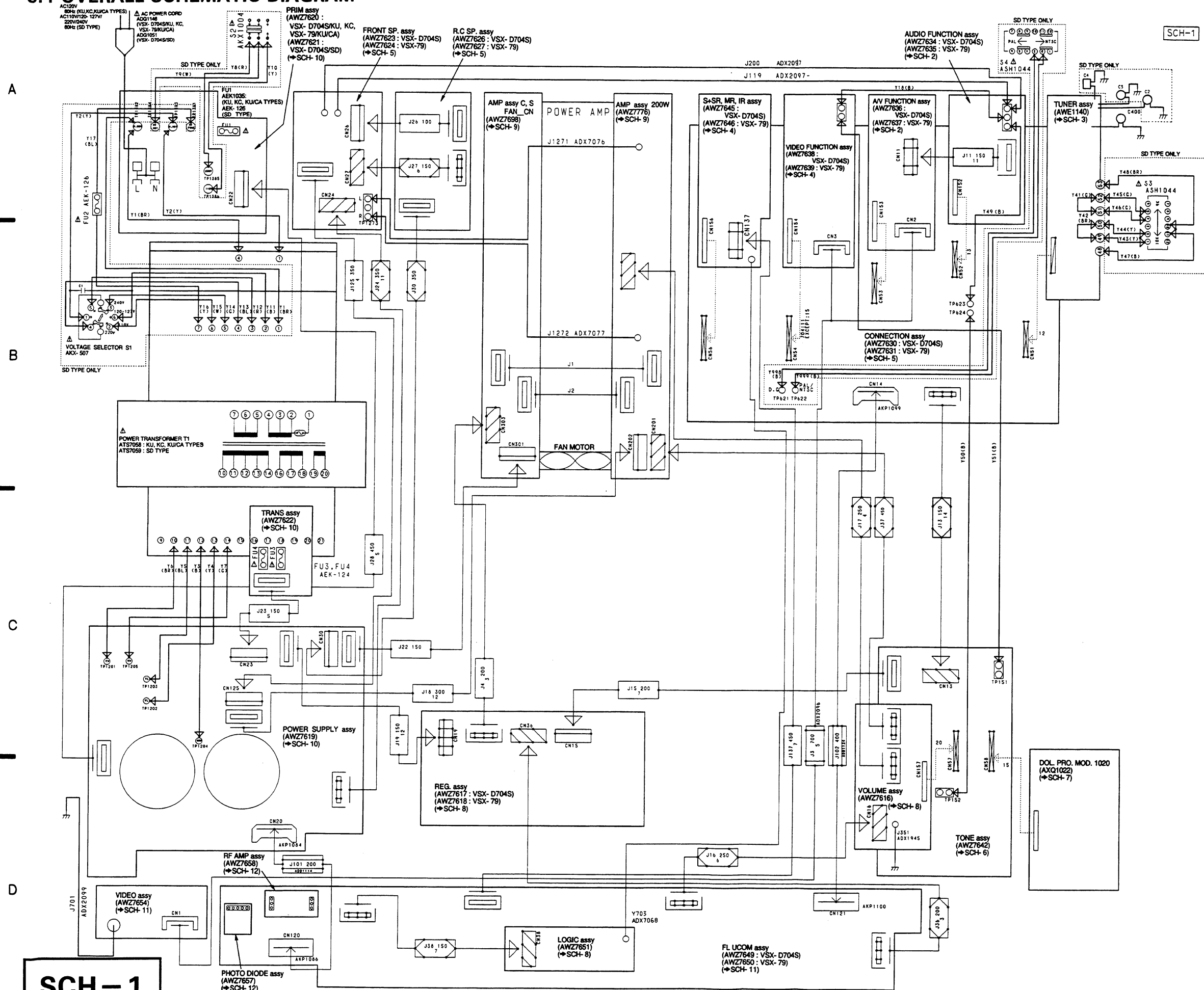
No.	Mark	No.	Description	Parts No.
586		1	MOLD A	AMR7041
135	NSP	2	RADIATOR	ANH7013
654		3	MOLD B	AMR7042
196		4	AMP ASSY C, S FAN_CN	AWZ7698
P080FMC		5	AMP ASSY 200W	AWZ7776
649	△	6	TRANSISTOR (Q209)	2SC1740S
114	△	7	TRANSISTOR (Q23)	2SA1837
134	△	8	THERMISTOR (TH1)	150-203-73002
585	△	9	TRANSISTOR (Q3)	2SA1302
651	△	10	TRANSISTOR (Q210)	2SC1740S
149	△	11	TRANSISTOR (Q21)	2SC4793
	△	12	TRANSISTOR (Q1)	2SC3281
	△	13	FAN MOTOR	AXM7005
	△	14	SCREW	ABA-283
	△	15	TRANSISTOR (Q309)	2SC1740S
	△	16	TRANSISTOR (Q24)	2SA1837
	△	17	TRANSISTOR (Q33)	2SA1837
	△	18	TRANSISTOR (Q34)	2SA1837
	△	19	SCREW	ABA-298
	△	20	TRANSISTOR (Q4)	2SA1302
	△	21	TRANSISTOR (Q7)	2SA1302
	△	22	TRANSISTOR (Q8)	2SA1302
	△	23	TRANSISTOR (Q11)	2SA1302
	△	24	TRANSISTOR (Q12)	2SA1302
	△	25	SCREW	ABA1037
	△	26	TRANSISTOR (Q310)	2SC1740S
	△	27	TRANSISTOR (Q22)	2SC4793
	△	28	TRANSISTOR (Q31)	2SC4793
	△	29	TRANSISTOR (Q32)	2SC4793
	△	30	TRANSISTOR (Q2)	2SC3281
	△	31	TRANSISTOR (Q5)	2SC3281
	△	32	TRANSISTOR (Q6)	2SC3281
	△	33	TRANSISTOR (Q9)	2SC3281
	△	34	TRANSISTOR (Q10)	2SC3281
	△	35	SCREW	BPZ30P350FZK





### 3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

#### 3.1 OVERALL SCHEMATIC DIAGRAM



SCH-1

#### NOTE FOR SCHEMATIC DIAGRAMS (Type 1A)

- When ordering service parts, be sure to refer to "PARTS LIST OF EXPLODED VIEWS" or "PCB PARTS LIST".**
- Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
- RESISTORS:**  
Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.  
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.  
Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
- CAPACITORS:**  
Unit: p:pF or μF unless otherwise noted.  
Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.  
Rated voltage: 50V except for electrolytic capacitors.
- COILS:**  
Unit: m:mH or μH unless otherwise noted.
- VOLTAGE AND CURRENT:**  
V : Signal voltage at rated output.  
or - V :  
DC voltage (V) at no input signal unless otherwise noted.  
Value in ( ) is DC voltage at rated power.  
mA or - mA :  
DC current at no input signal unless otherwise noted.
- OTHERS:**  
• ⊕ or ⊙ : Adjusting point.  
• ⊛ : Measurement point.  
• 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.
- SCH-□ ON THE SCHEMATIC DIAGRAM:**  
• SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)
- SWITCHES (Underline indicates switch position):**  
FL UCOM assy  
S701 VCR2  
S702 POWER STANDBY/ON  
S703 MUTING  
S704 VIDEO  
S705 RETURN  
S706 GUI MODE  
S707 TV/SAT  
S708 SPEAKERS A  
S709 GUI ENTER  
S710 RESET  
S711 LD  
S712 SPEAKERS B  
S713 SELECT  
S714 TAPE1  
S716 ENTER  
S717 TAPE2 MONITOR  
S719 MEMORY  
S720 PHONO  
S722 MPX MODE  
S723 TUNER  
S724 SLEEP (VSX-D704S TYPE)  
MULTI-ROOM & SOURCE (VSX-79 TYPE)  
S725 FM/AM  
S726 CD  
S727 SUPER BASS (VSX-D704S TYPE)  
THEATER BASS (VSX-79 TYPE)  
S728 DOLBY 3CH LOGIC  
S729 DIRECT (VSX-D704S TYPE)  
PURE LINE (VSX-79 TYPE)  
S730 VCR1  
S731 DSP MODE  
S732 DOLBY PRO-LOGIC  
S1281 CENTER SPEAKER SELECTOR  
I-I (VSX-79 TYPE ONLY)

SCH-1

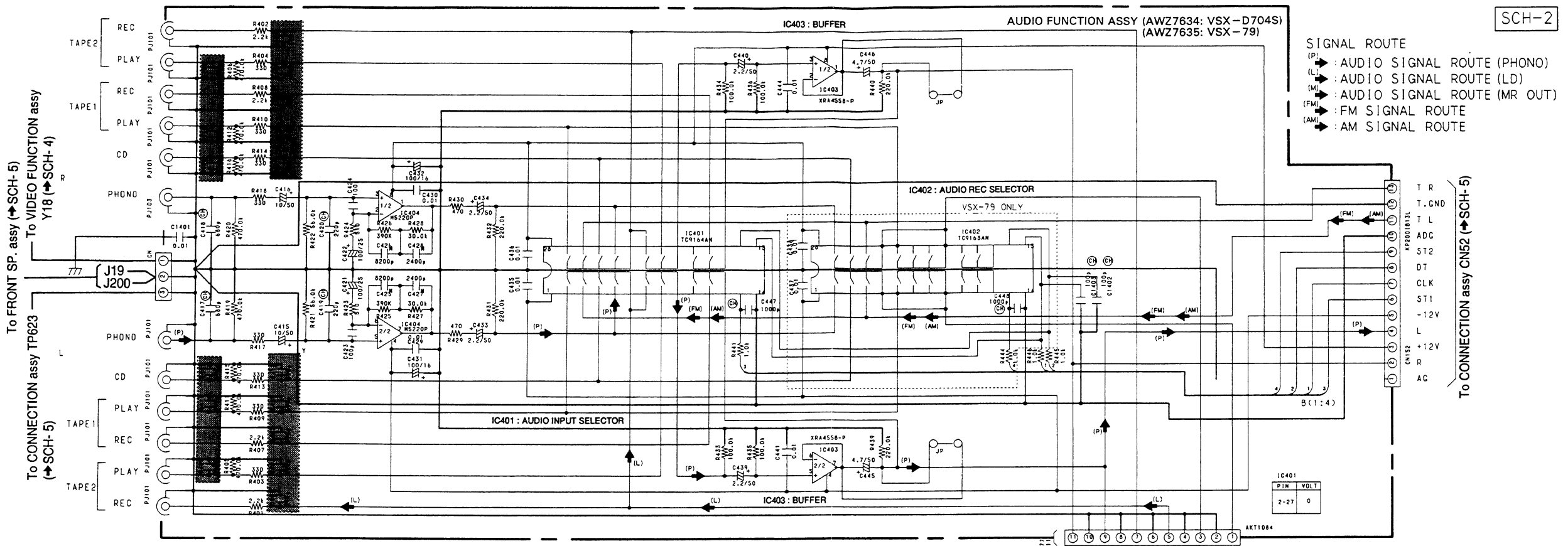
OVERALL SCHEMATIC DIAGRAM

SCH-1

OVERALL SCHEMATIC DIAGRAM

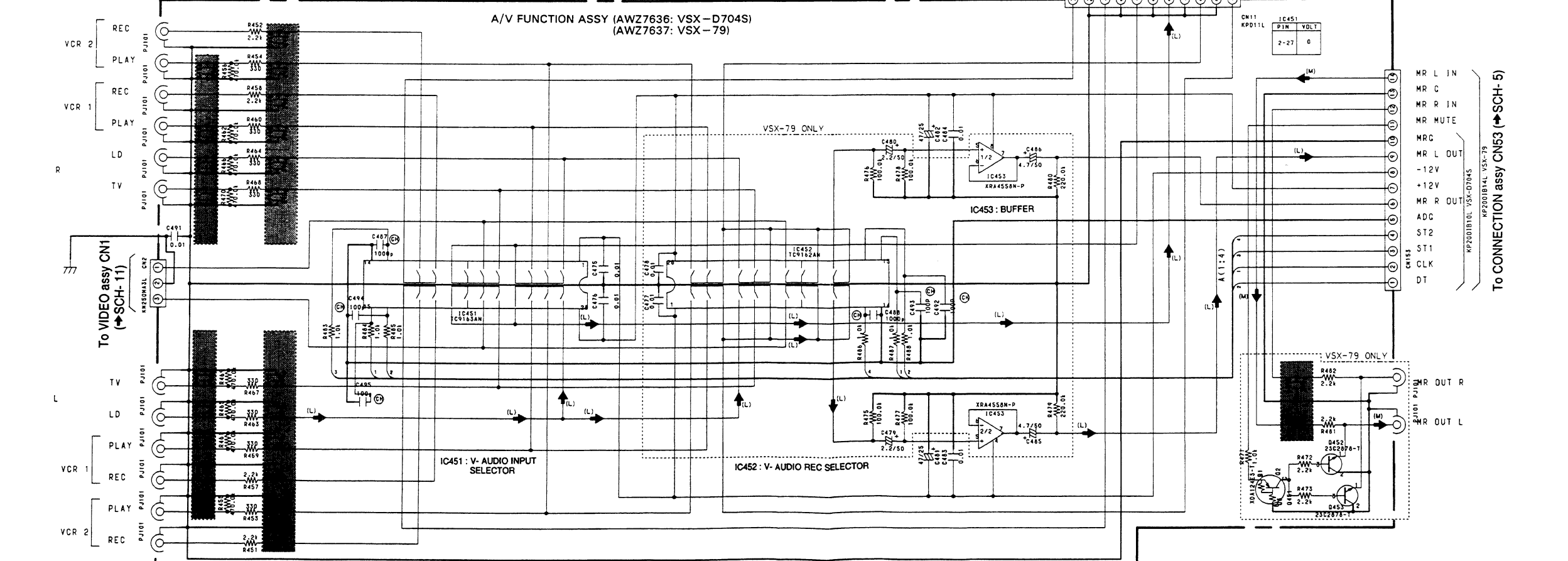
3.2 AUDIO FUNCTION ASSY AND A/V FUNCTION ASSY

SCH-2



To FRONT SP. assy (SCH-5)  
To VIDEO FUNCTION assy Y18 (SCH-4)  
To CONNECTION assy TP623 (SCH-5)

To CONNECTION assy CN52 (SCH-5)



To CONNECTION assy CN53 (SCH-5)

NOTE: Sections marked with [shaded] are not used for VSX-D704S and VSX-79.

SCH-2

SCH-2

AUDIO FUNCTION ASSY,  
A/V FUNCTION ASSY

AUDIO FUNCTION ASSY,  
A/V FUNCTION 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.

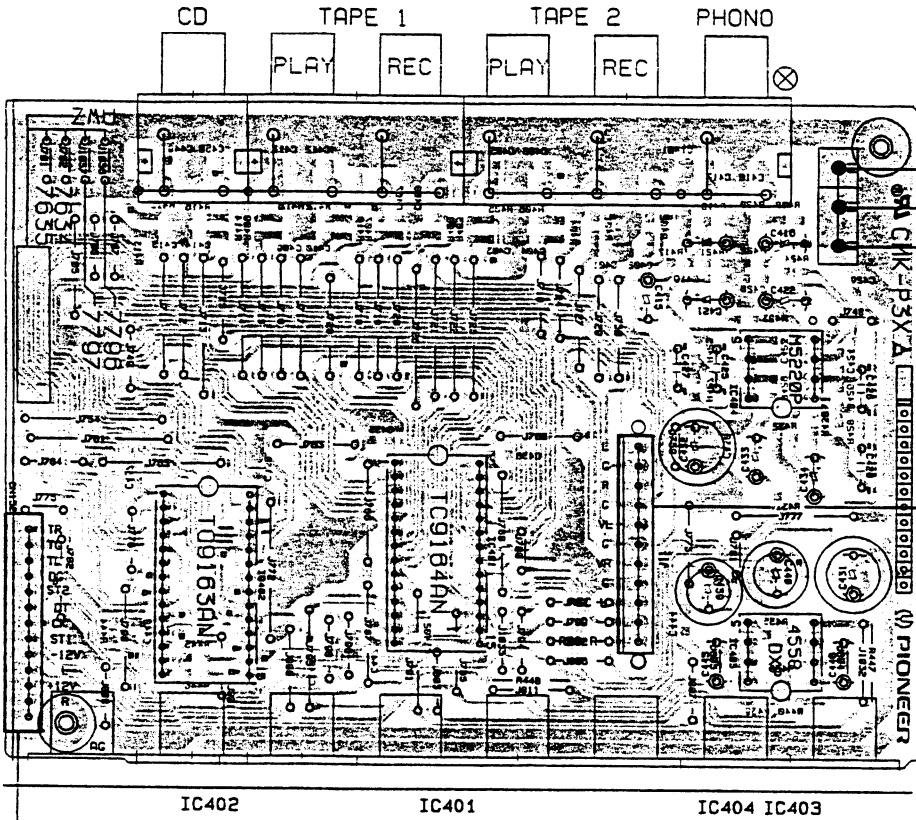
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

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.

3. The transistor terminal marked with E or  $\square$  shows the emitter.
4. The diode terminal marked with  $\odot$  or  $\square$  shows cathode side.
5. The capacitor terminal marked with  $\ominus$  or  $\square$  shows negative terminal.

AUDIO FUNCTION ASSY

PCB-1



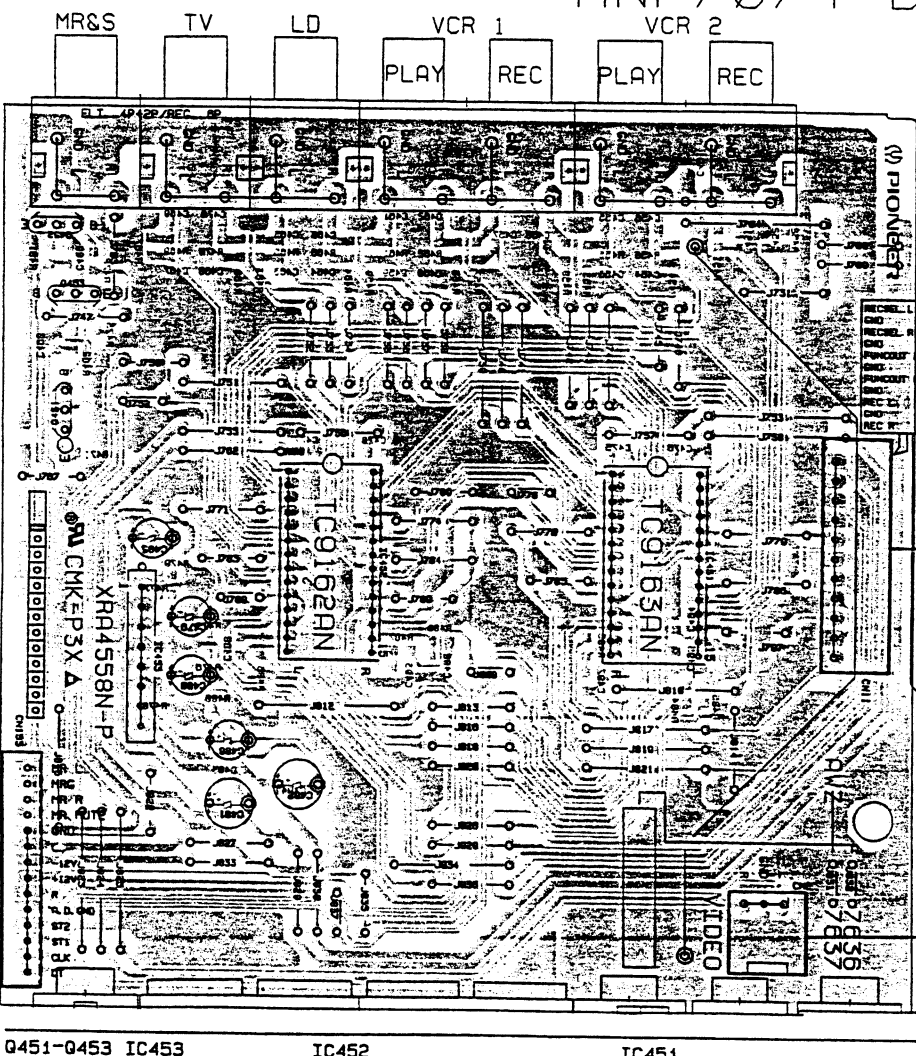
To FRONT SP. assy J119  
To VIDEO FUNCTION assy  
To CONNECTION assy TP623

To A/V FUNCTION assy CN11

To CONNECTION assy CN52

A/V FUNCTION ASSY

ANP7074-B



To AUDIO FUNCTION assy J11

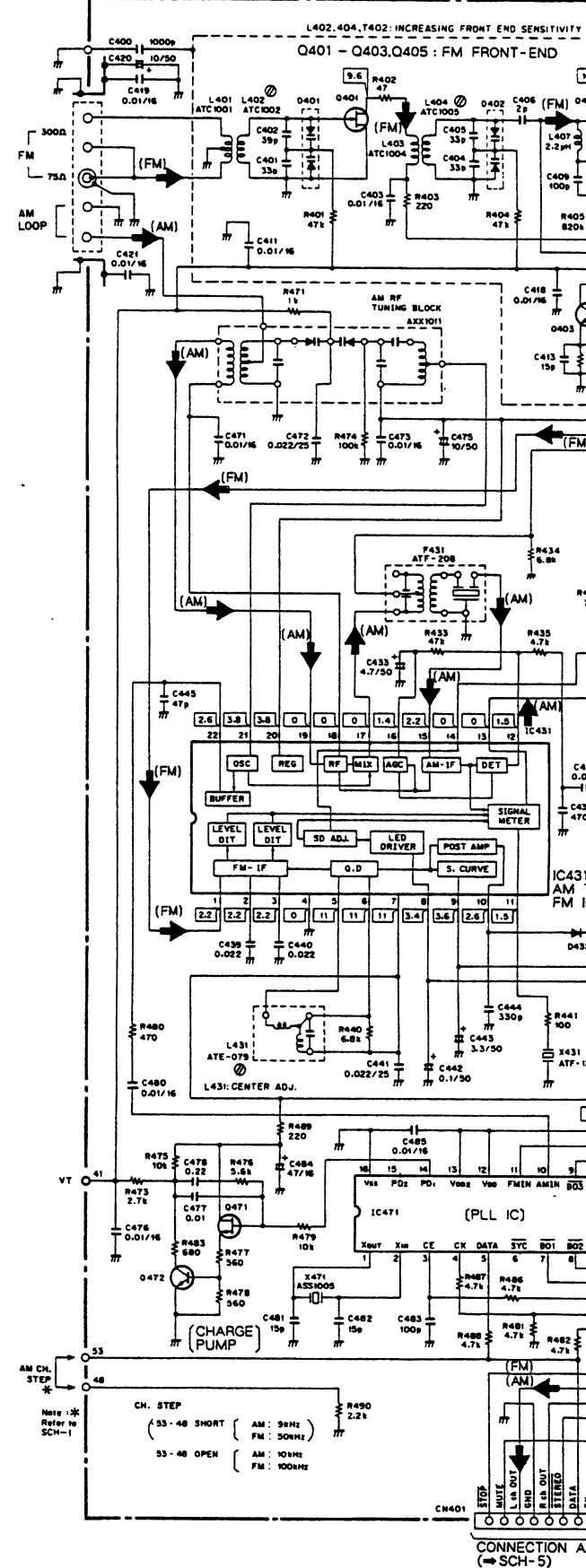
To VIDEO assy CN1

To CONNECTION assy CN53

This diagram is viewed from the mounted parts side.

3.3 TUNER ASSY

TUNER ASSY (AWE1140)

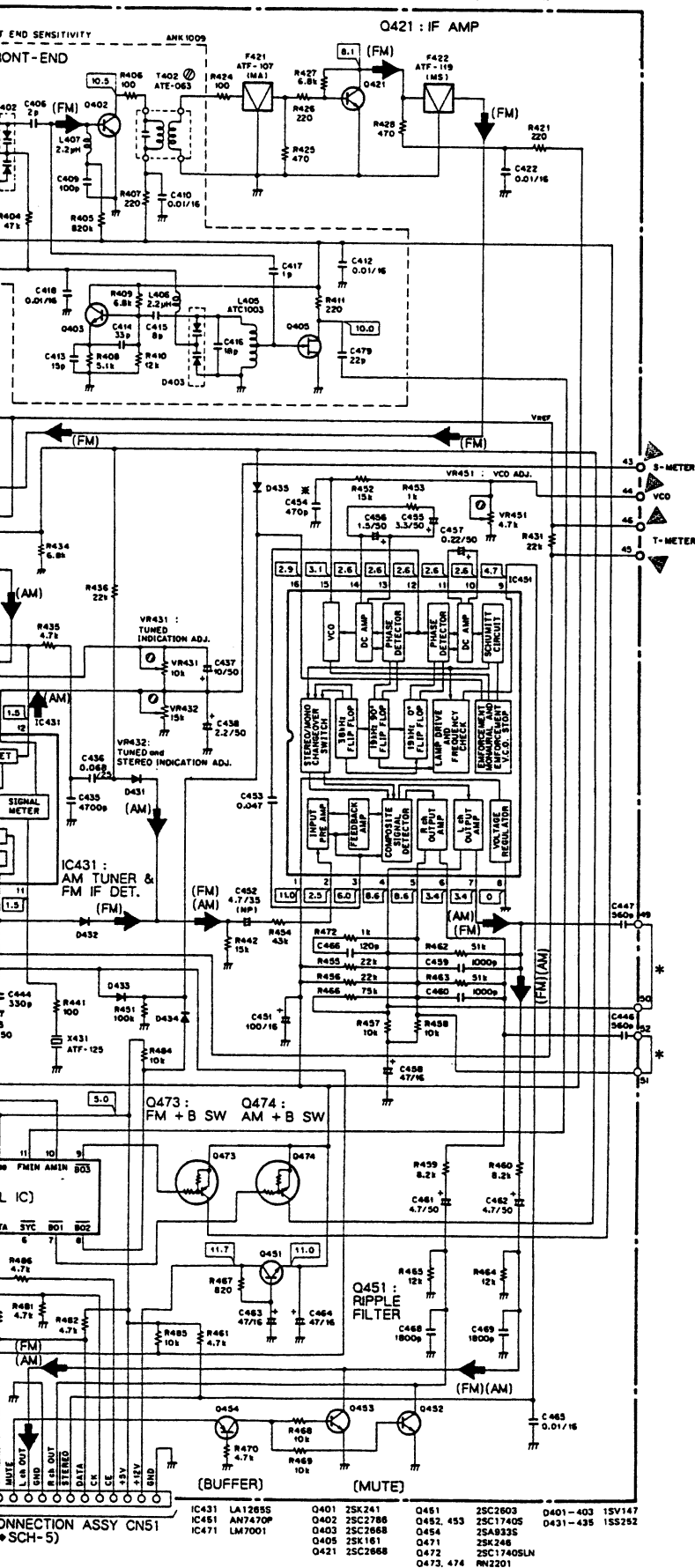


CONNECTION A (SCH-5)

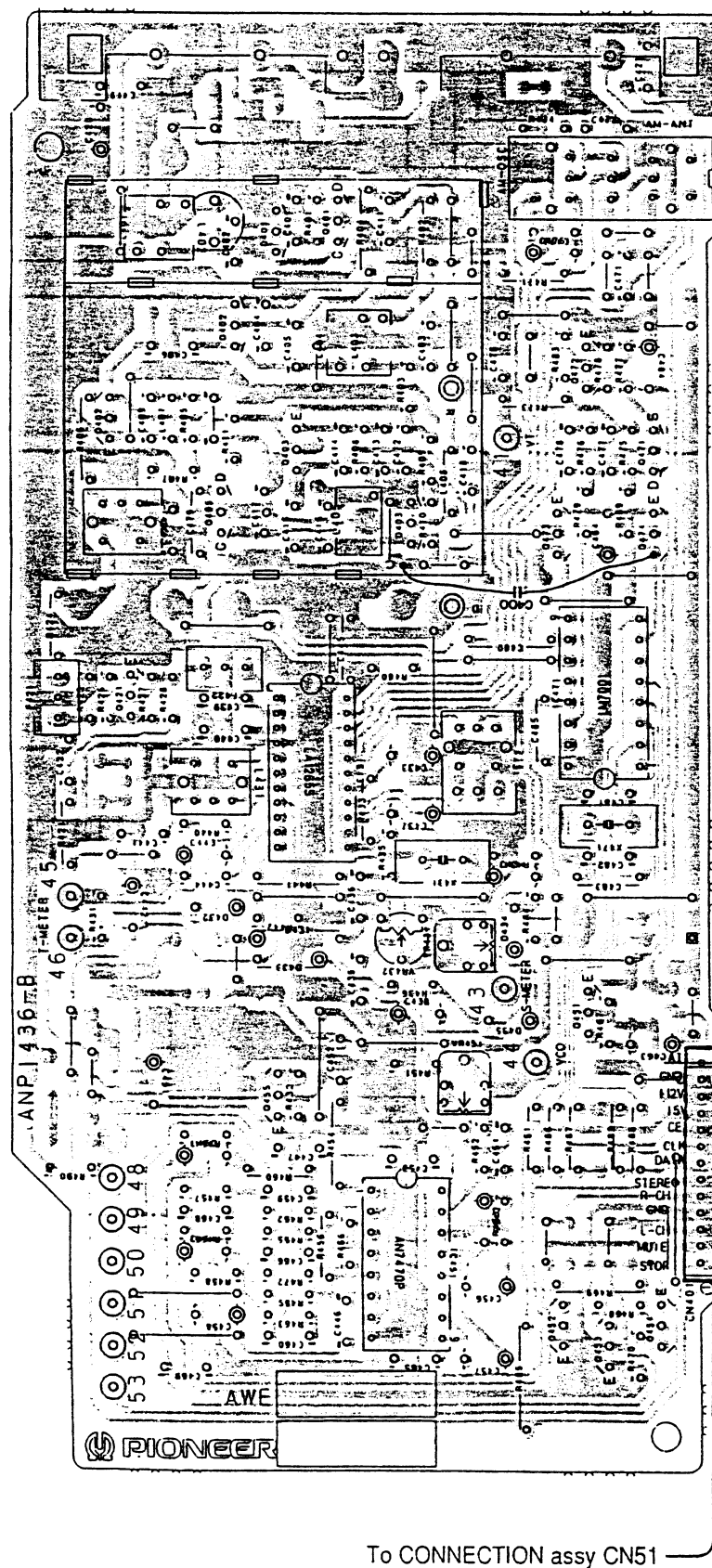
PCB-2

SIGNAL ROUTE

(FM) : FM SIGNAL ROUTE  
(AM) : AM SIGNAL ROUTE



TUNER ASSY



To CONNECTION assy CN51

TUNER ASSY

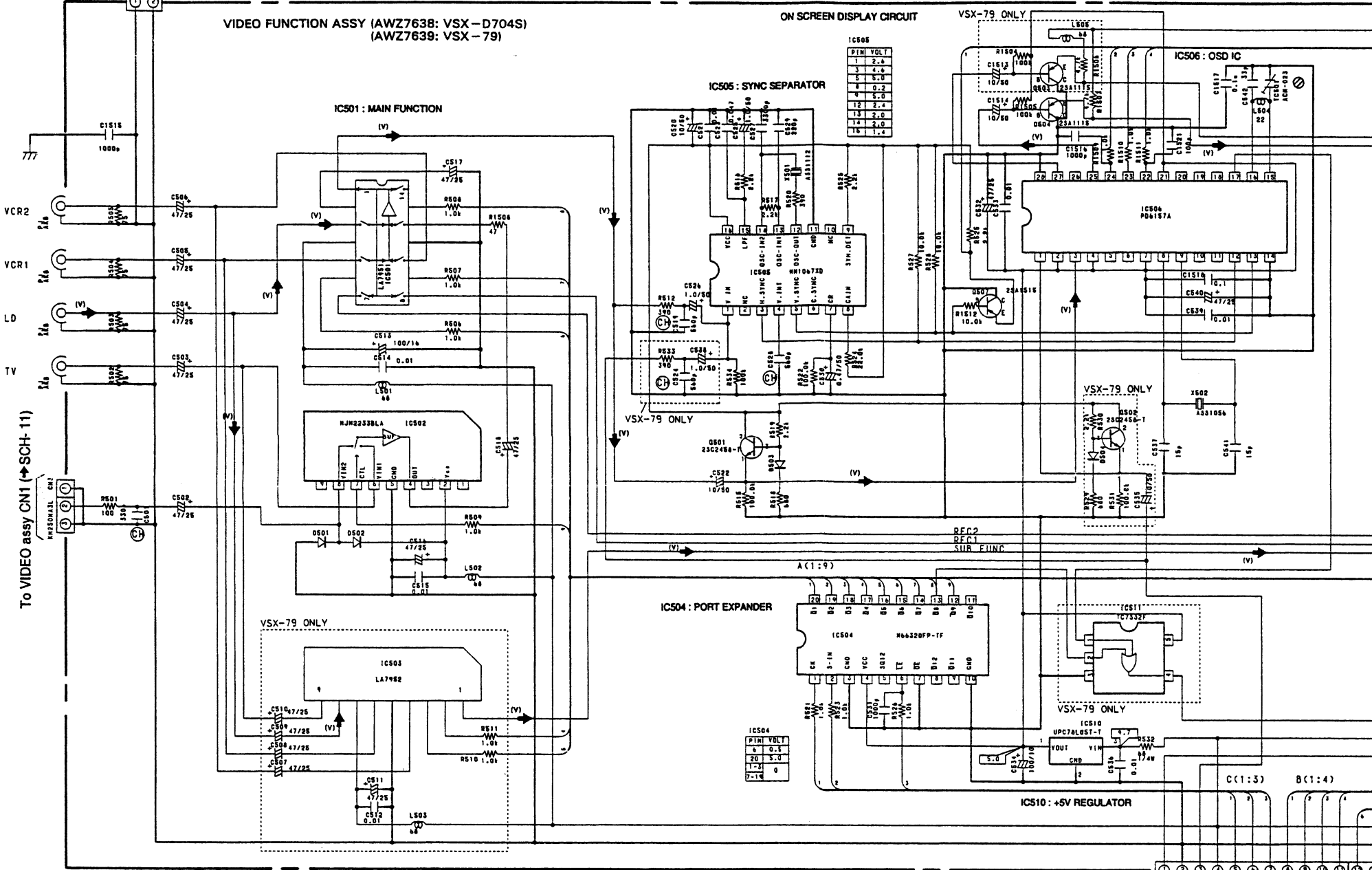
SCH-3

• This diagram is viewed from the mounted parts side.

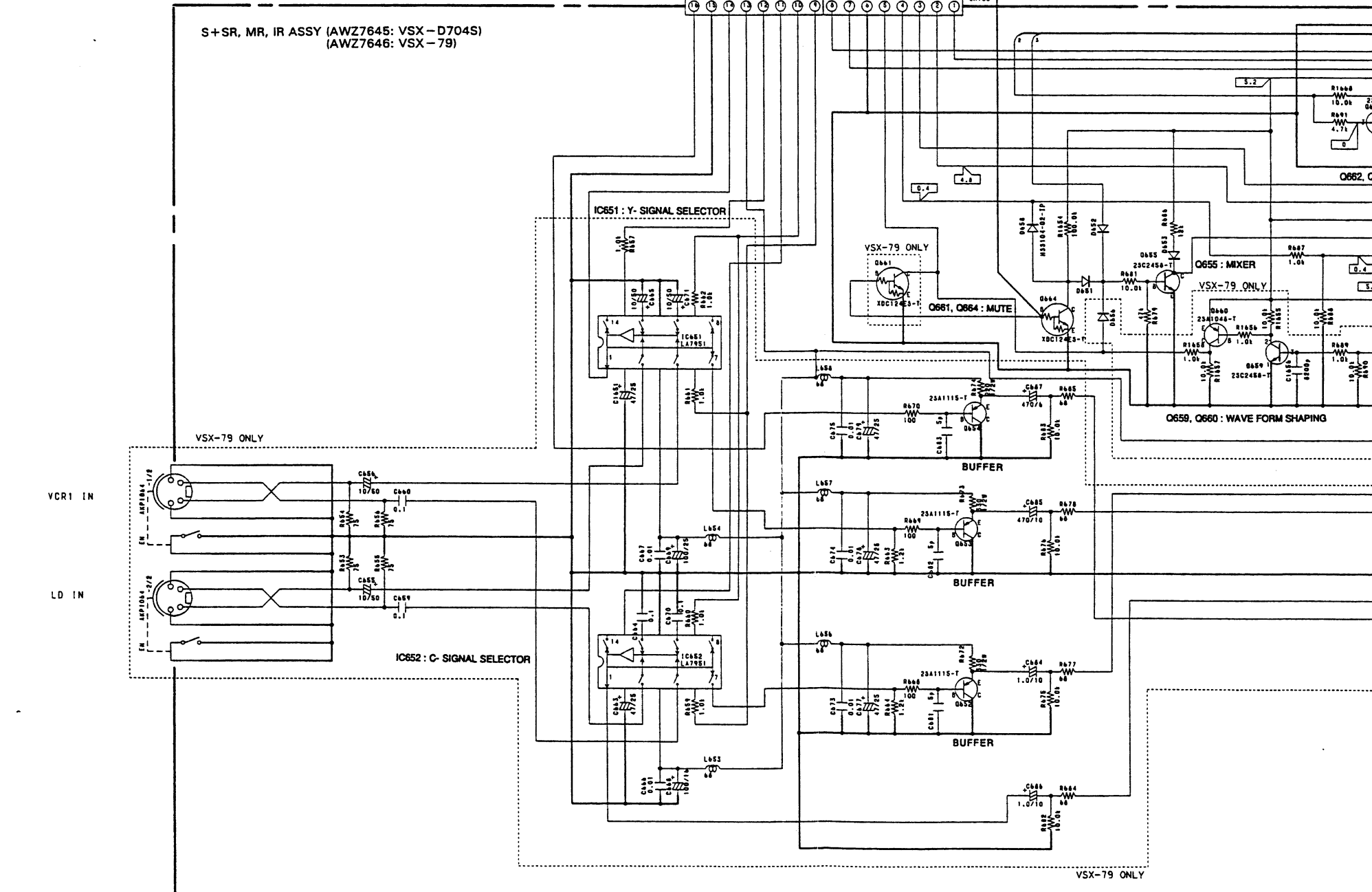
3.4 VIDEO FUNCTION ASSY AND S+SR, MR, IR ASSY

To AUDIO FUNCTION assy Y18 (SCH-2)  
To TONE assy Y51 (SCH-6)

A  
B  
C  
D  
E  
F

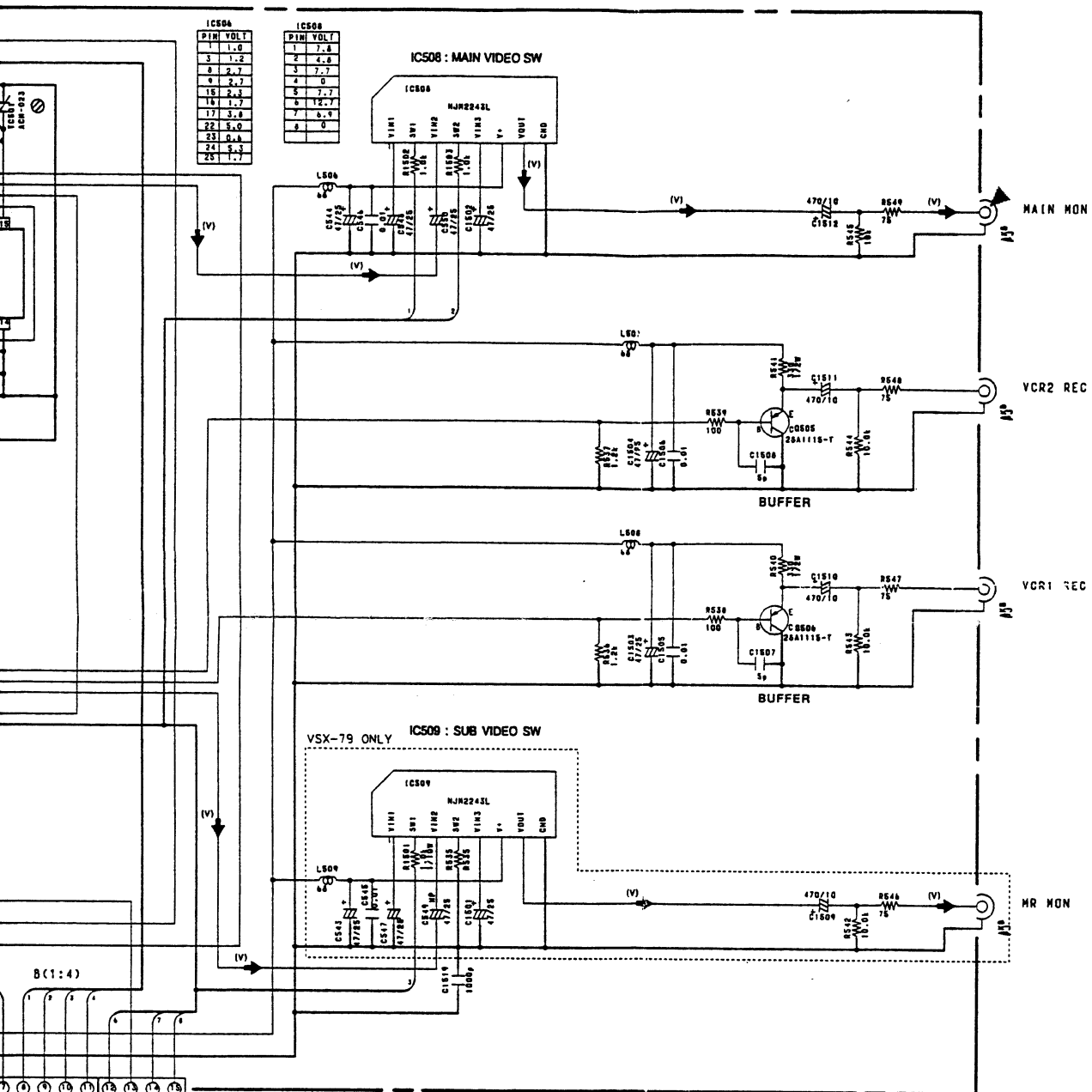


To CONNECTION assy CN56 (SCH-5)  
To LOGIC assy (SCH-8)  
To CONNECTION assy CN54 (SCH-5)



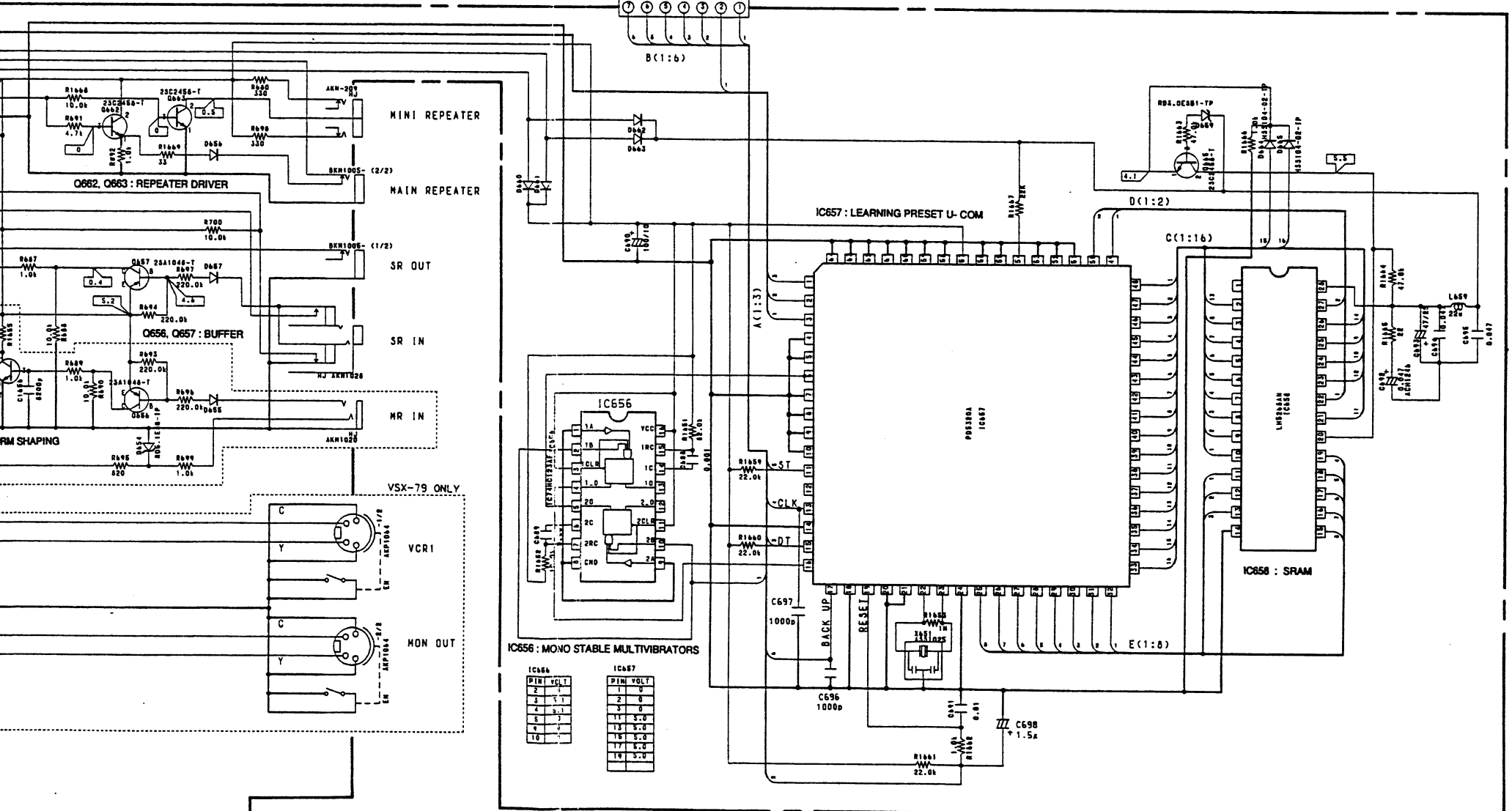
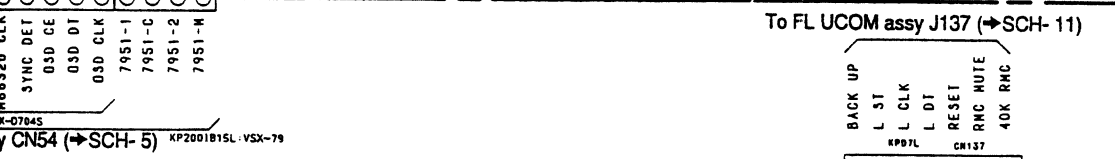
SCH-4

VIDEO FUNCTION ASSY,  
S+SR, MR, IR ASSY



SCH-4

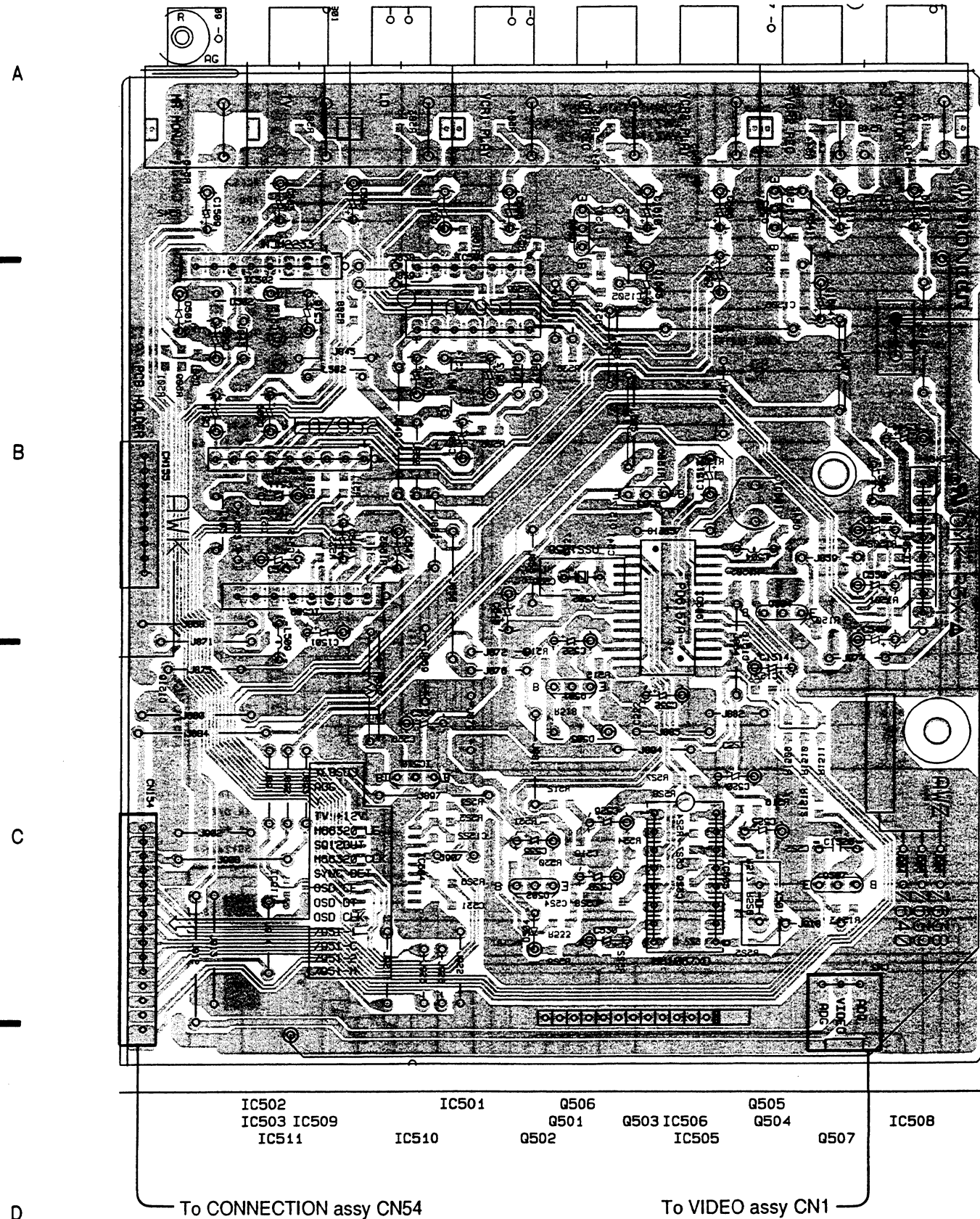
SIGNAL ROUTE  
 (V) : VIDEO SIGNAL ROUTE



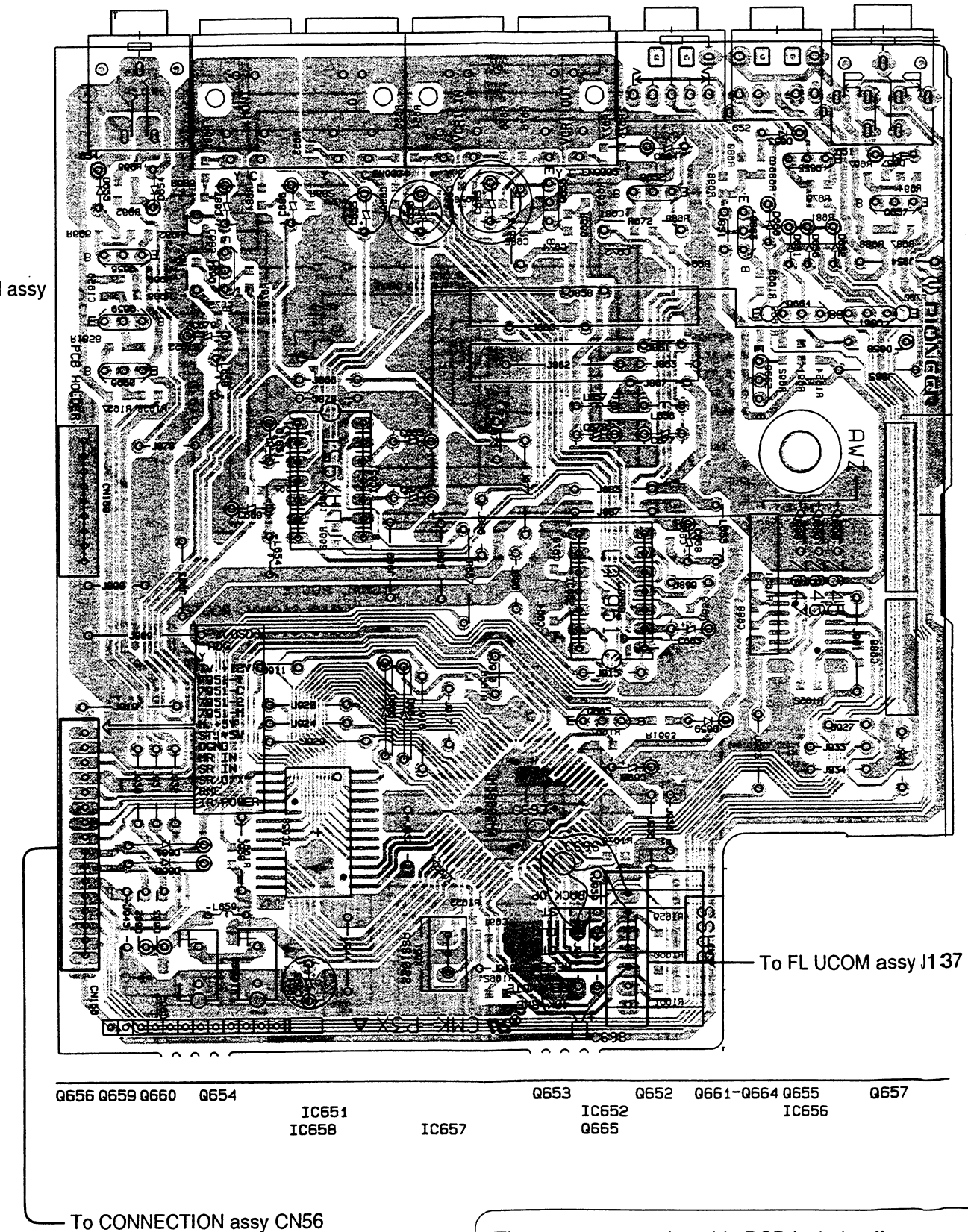
VIDEO FUNCTION ASSY,  
 S+SR, MR, IR ASSY

SCH-4

VIDEO FUNCTION ASSY



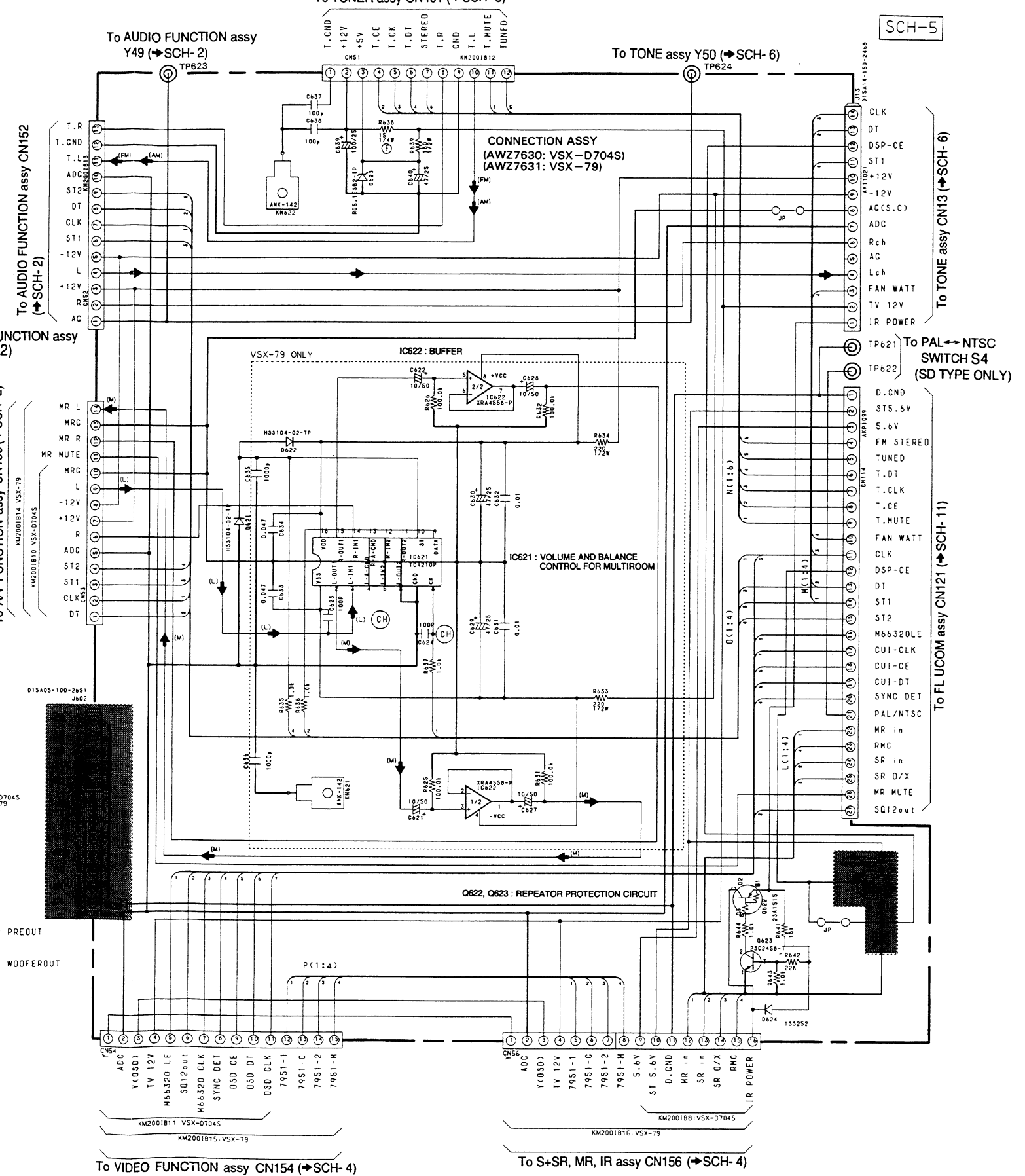
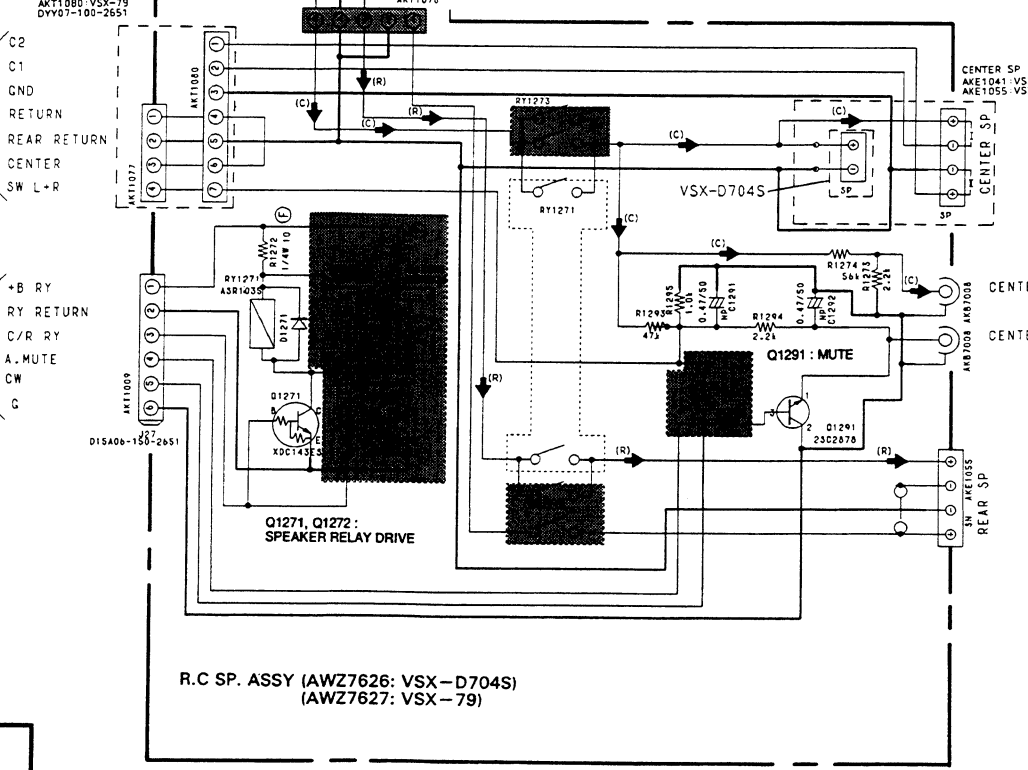
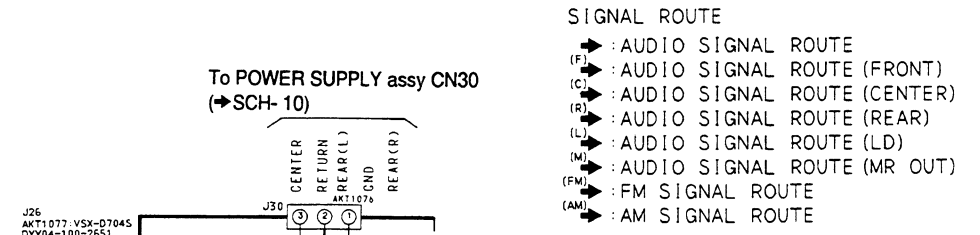
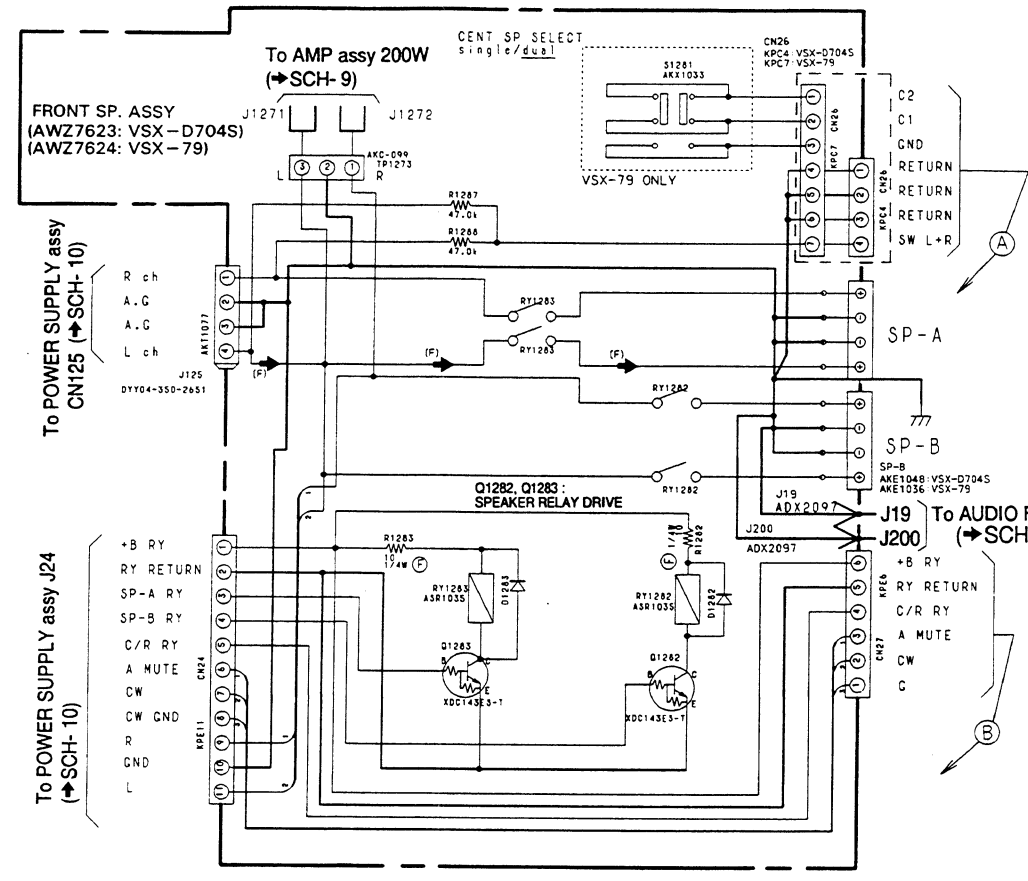
S+SR, MR, IR ASSY



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.

• This diagram is viewed from the mounted parts side.

3.5 FRONT SP. ASSY, R.C SP. ASSY AND CONNECTION ASSY



NOTE : Sections marked with [shaded box] are not used for VSX-D704S and VSX-79.

SCH-5

FRONT SP. ASSY, R.C SP. ASSY, CONNECTION ASSY

SCH-5

FRONT SP. ASSY, R.C SP. ASSY, CONNECTION ASSY

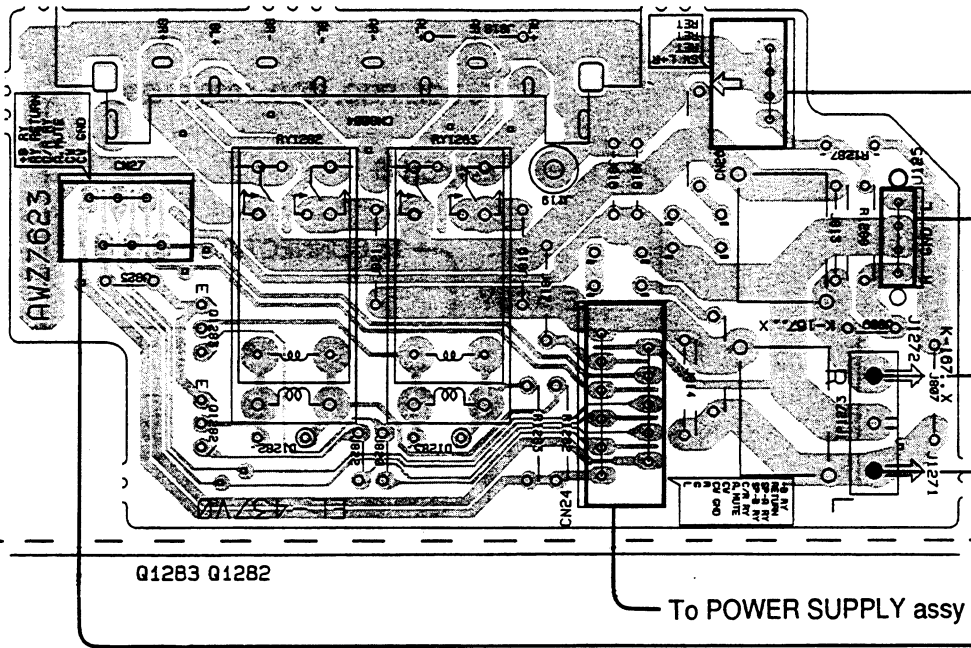


For VSX-D704S

FRONT SP. ASSY

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.

This diagram is viewed from the mounted parts side.

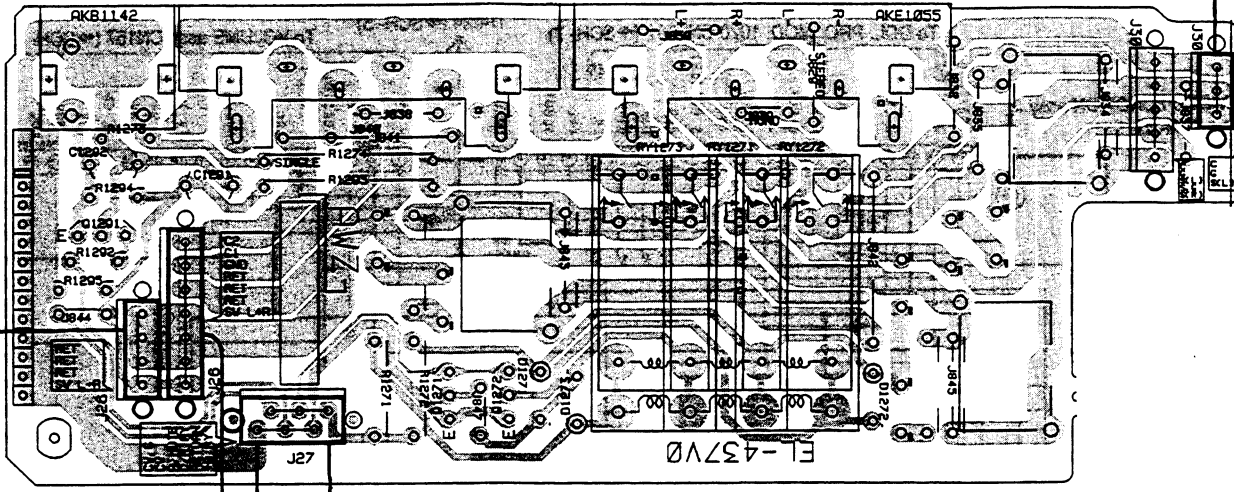


To POWER SUPPLY assy CN125

J1272  
J1271 To AMP assy 200W

To POWER SUPPLY assy J24

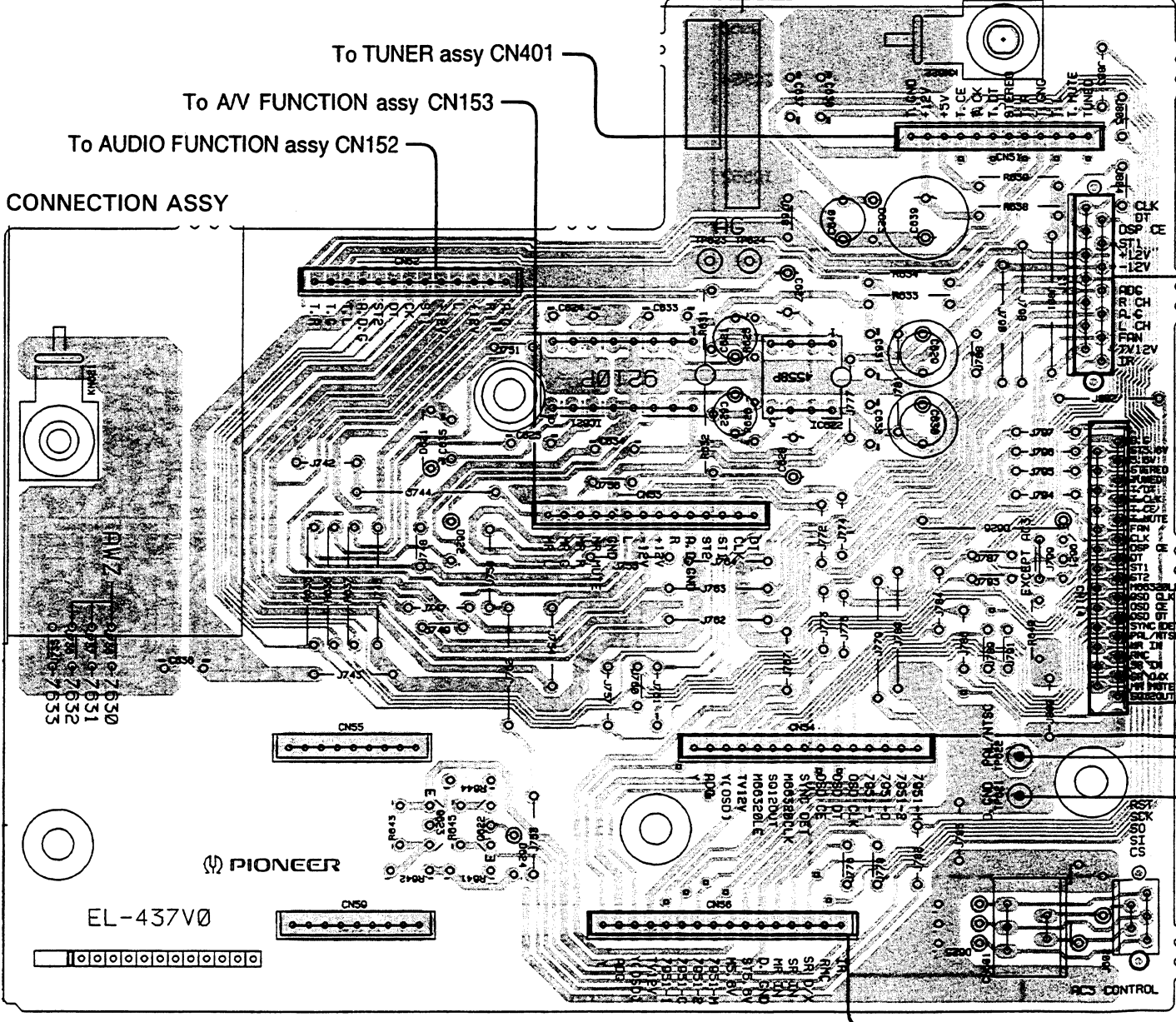
R.C SP. ASSY



To POWER SUPPLY assy CN30

Q1291 Q1271 Q1272

CONNECTION ASSY



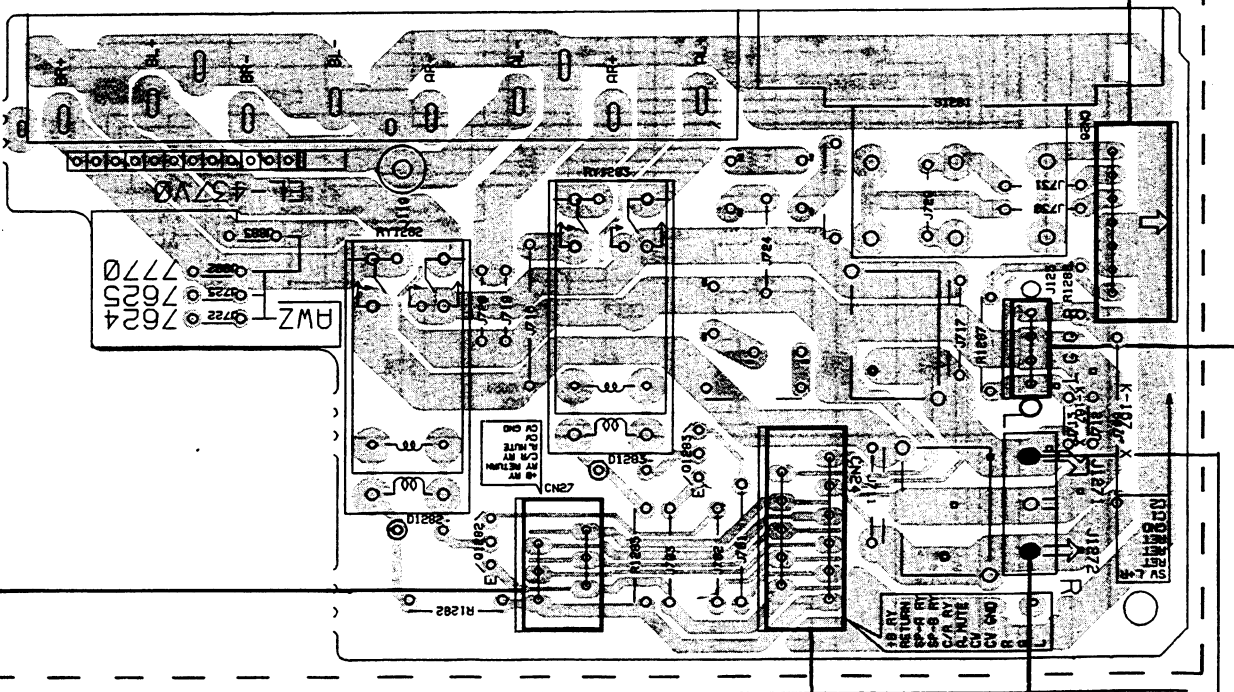
To TUNER assy CN401

To AV FUNCTION assy CN153

To AUDIO FUNCTION assy CN152

For VSX-79

FRONT SP. ASSY



To TONE assy CN13

To FL UCOM assy CN121

To VIDEO FUNCTION assy CN154

To PAL ↔ NTSC SWITCH S4 (SD TYPE ONLY)

To S+SR, MR, IR assy CN156

To POWER SUPPLY assy J24

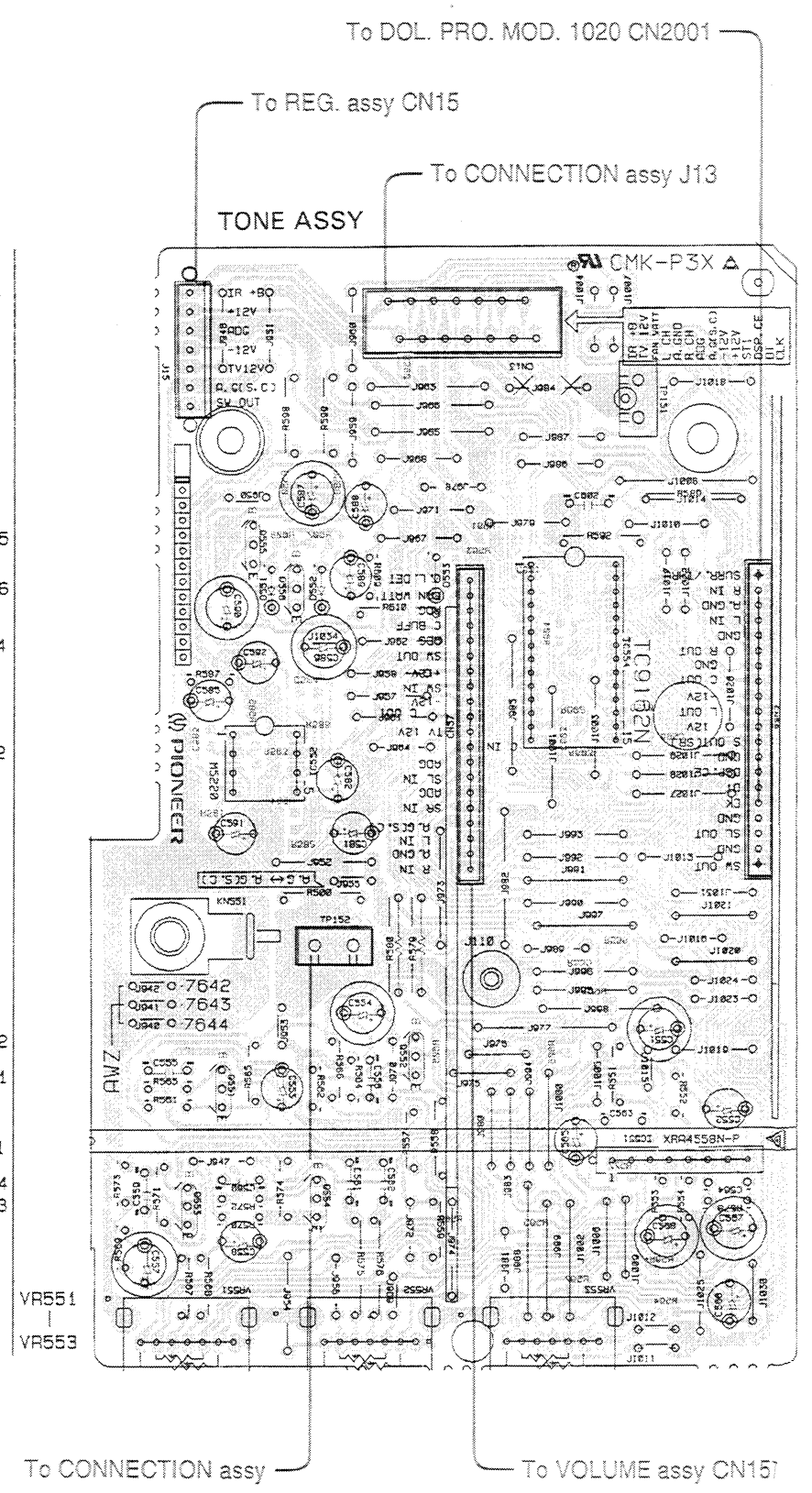
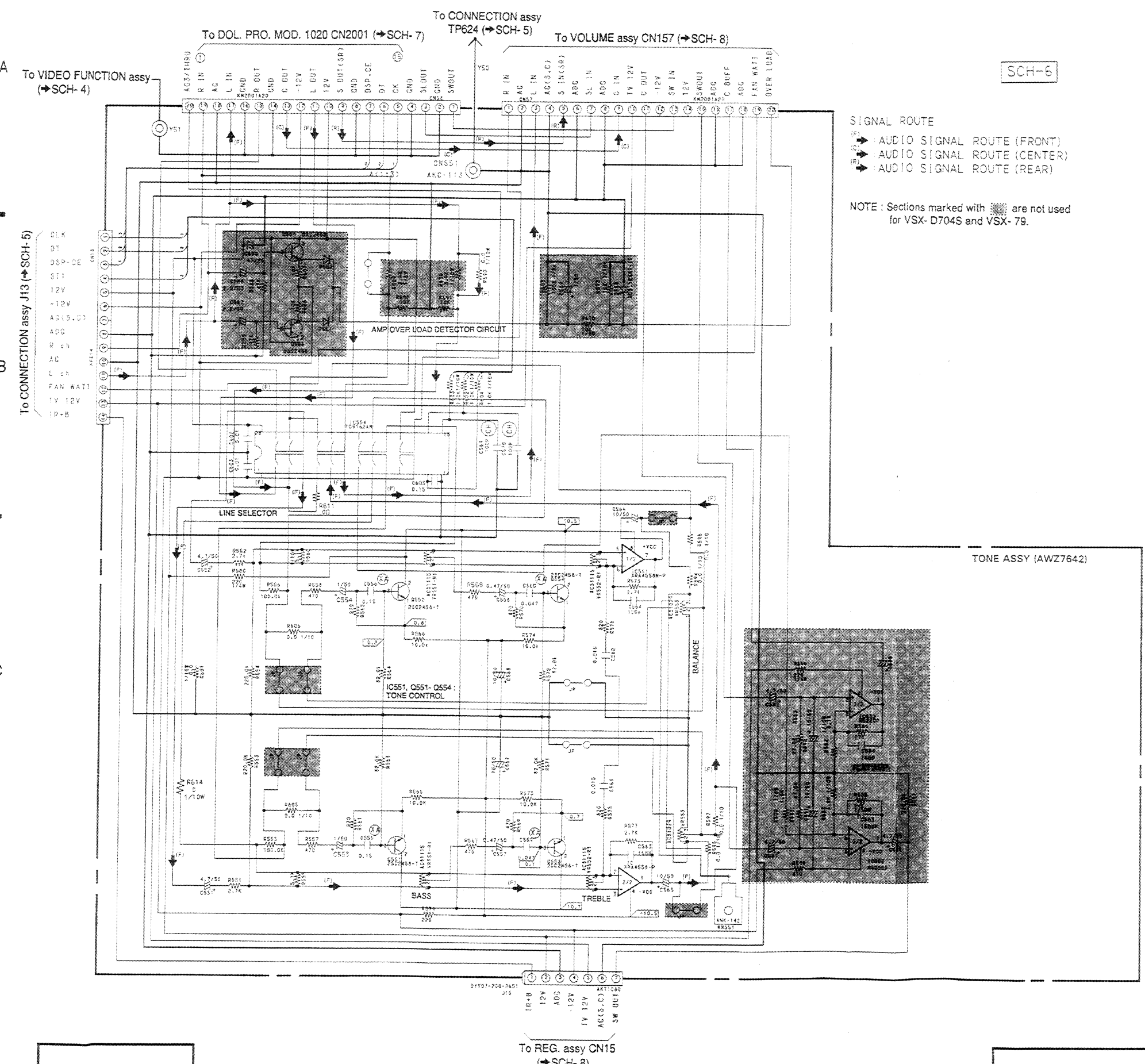
To AMP assy 200W

To POWER SUPPLY assy CN125

Q623 Q622 IC621 IC622 Q621

3.6 TONE ASSY

This diagram is viewed from the mounted parts side.



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.

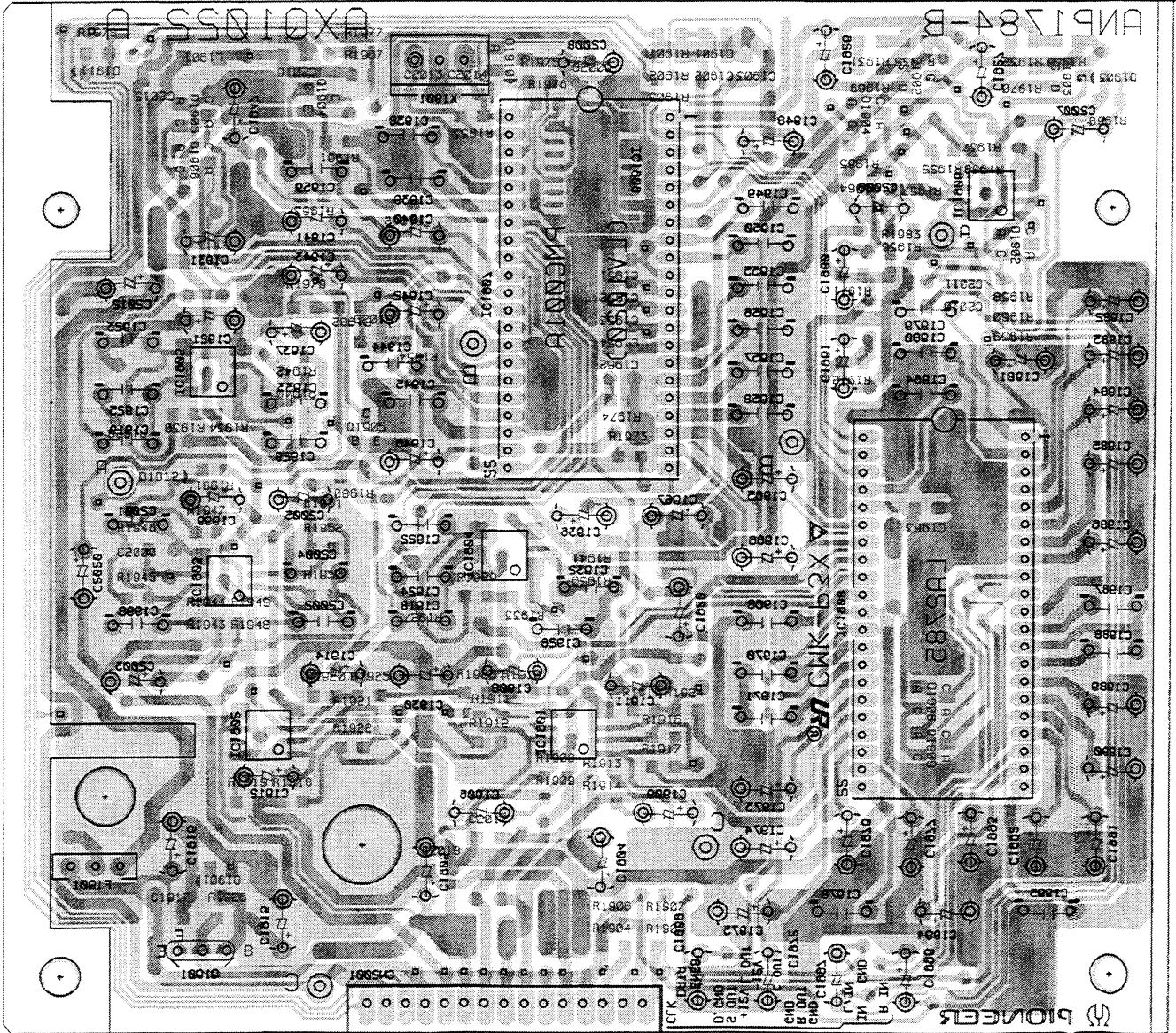
**SCH-6**

**SCH-6**

PCB-8

IC1808 IC1809 IC180E Q1805  
IC1801 IC1804 IC1805 IC1803 Q1801  
Q1802 Q1804 IC1802

DOL. PRO. MOD. 1050



To TONE Assy CN28

- This diagram is viewed from the gray colored foil side.
- This PCB is double sided.

3.7 DOL. PRO. MOD. 1020

The parts mounted on this PCB include all necessary parts for several destinations.

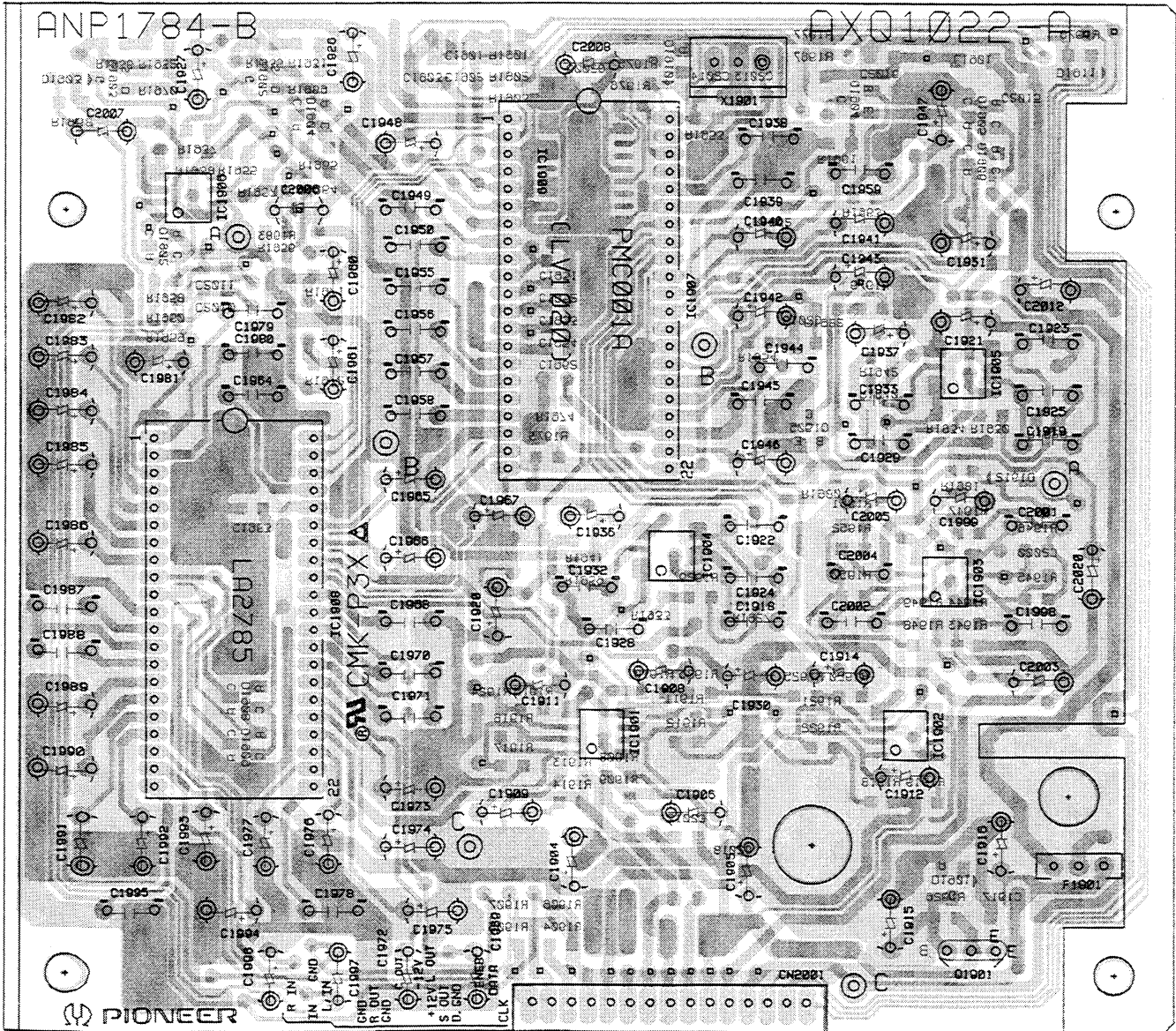
For further information for respective destinations, be sure to check with the schematic diagram.

Q1903 IC1906 Q1902  
IC1908

IC1907  
IC1901 IC1904

Q1905 Q1904 IC1905  
IC1902 IC1903 Q1901

DOL. PRO. MOD. 1020



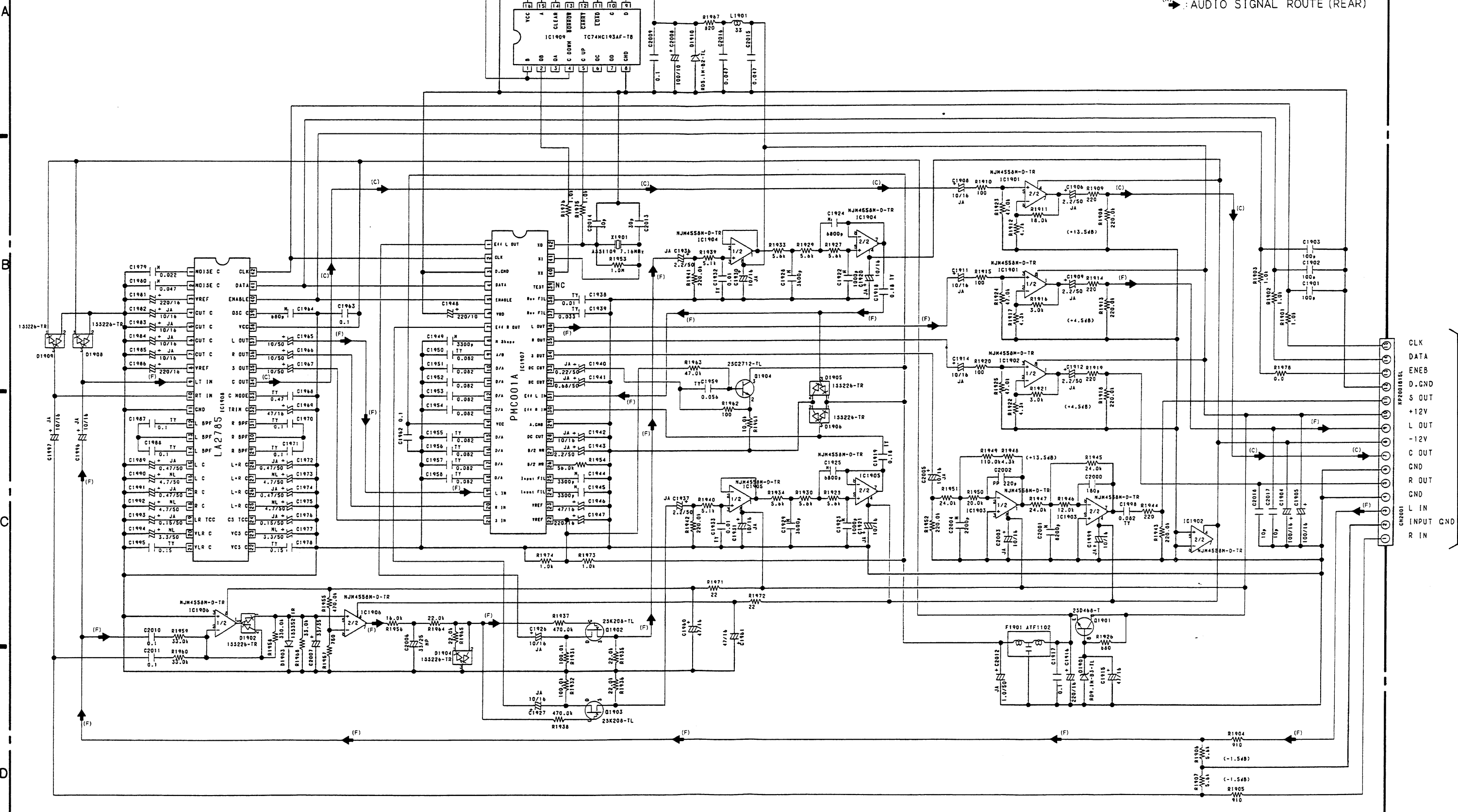
To TONE assy CN58

- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

DOL. PRO. MOD. 1020 (AXQ1022)

SIGNAL ROUTE

- (F) : AUDIO SIGNAL ROUTE (FRONT)
- (C) : AUDIO SIGNAL ROUTE (CENTER)
- (R) : AUDIO SIGNAL ROUTE (REAR)



- CLK
- DATA
- ENEB
- D.C.GND
- S OUT
- +12V
- L OUT
- 12V
- C OUT
- R OUT
- GND
- L IN
- INPUT CND
- R IN

To TONE assy CN58 (SCH-6)

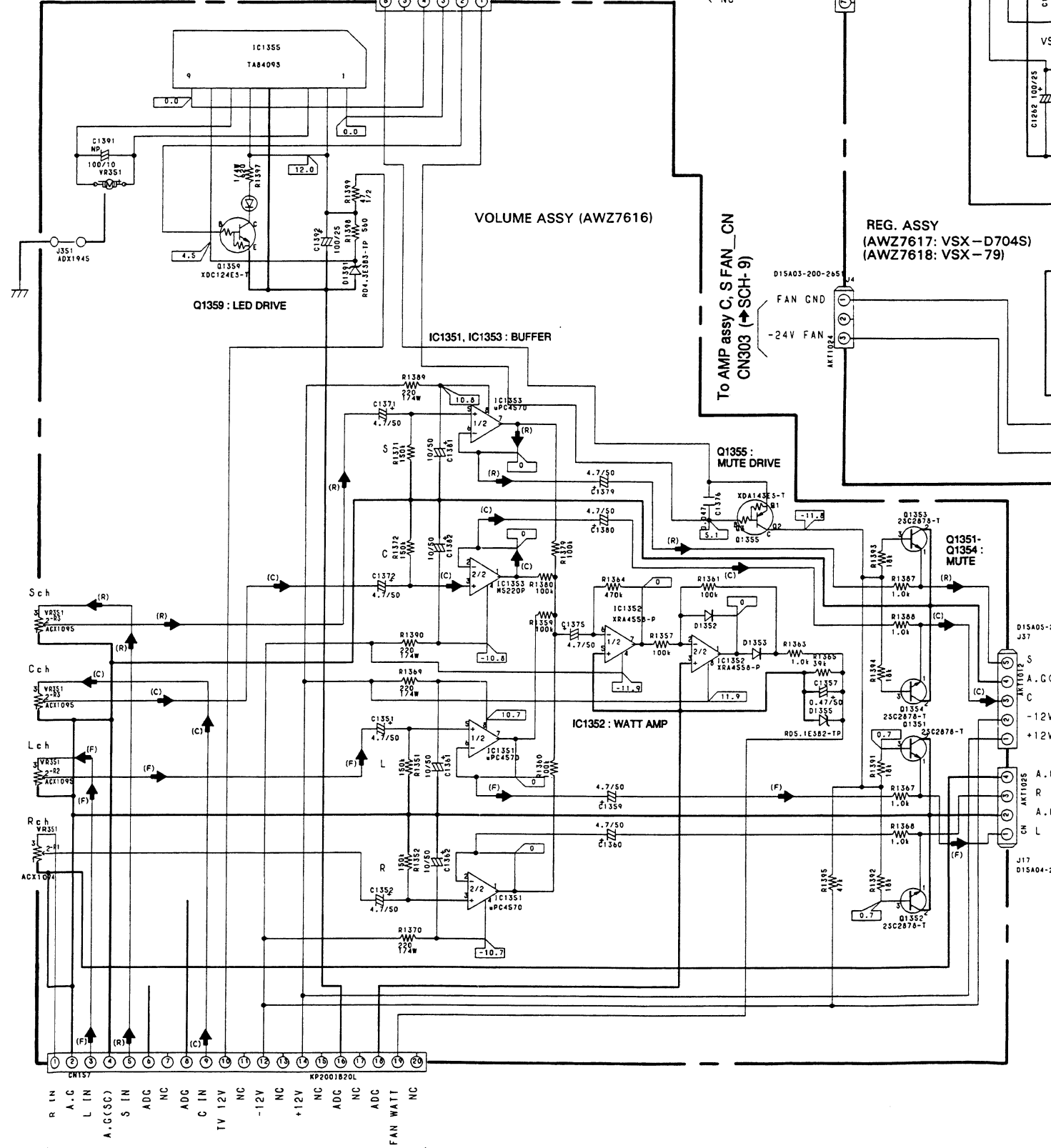
3.8 VOLUME ASSY, REG. ASSY AND LOGIC ASSY

SIGNAL ROUTE

- (F) : AUDIO SIGNAL ROUTE (FRONT)
- (C) : AUDIO SIGNAL ROUTE (CENTER)
- (R) : AUDIO SIGNAL ROUTE (REAR)

To FL UCOM assy J16 (SCH-11)

- 1R POWER
- +12V AUDIO
- A.D.C
- 12V AUDIO
- +12V AUDIO/TUNER
- AG S.C
- NC



VOLUME ASSY (AWZ7616)

REG. ASSY (AWZ7617: VSX-D704S) (AWZ7618: VSX-79)

FAN MOTOR CONTROL

SCH-8

- +B RY
- CW
- CW GND
- FAN L/F
- FL BIAS
- REC.+B
- REC.-B
- RY GND
- SV
- D.C
- IR POWER

To POWER SUPPLY assy J19 (SCH-10)

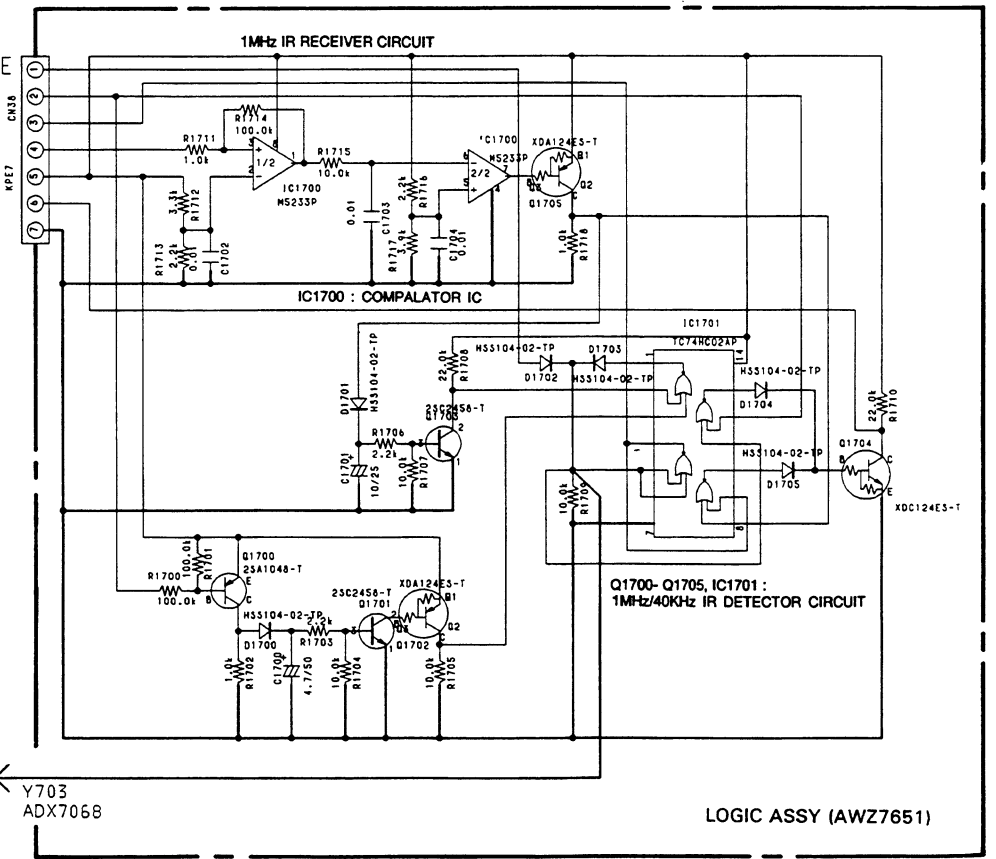
To FL UCOM assy J36 (SCH-11)

To AMP assy 200W CN201 (SCH-9)

To AMP assy 200W CN203 (SCH-9)

To FL UCOM assy J38 (SCH-11)

To S+SR, MR, IR assy (SCH-4)



LOGIC ASSY (AWZ7651)

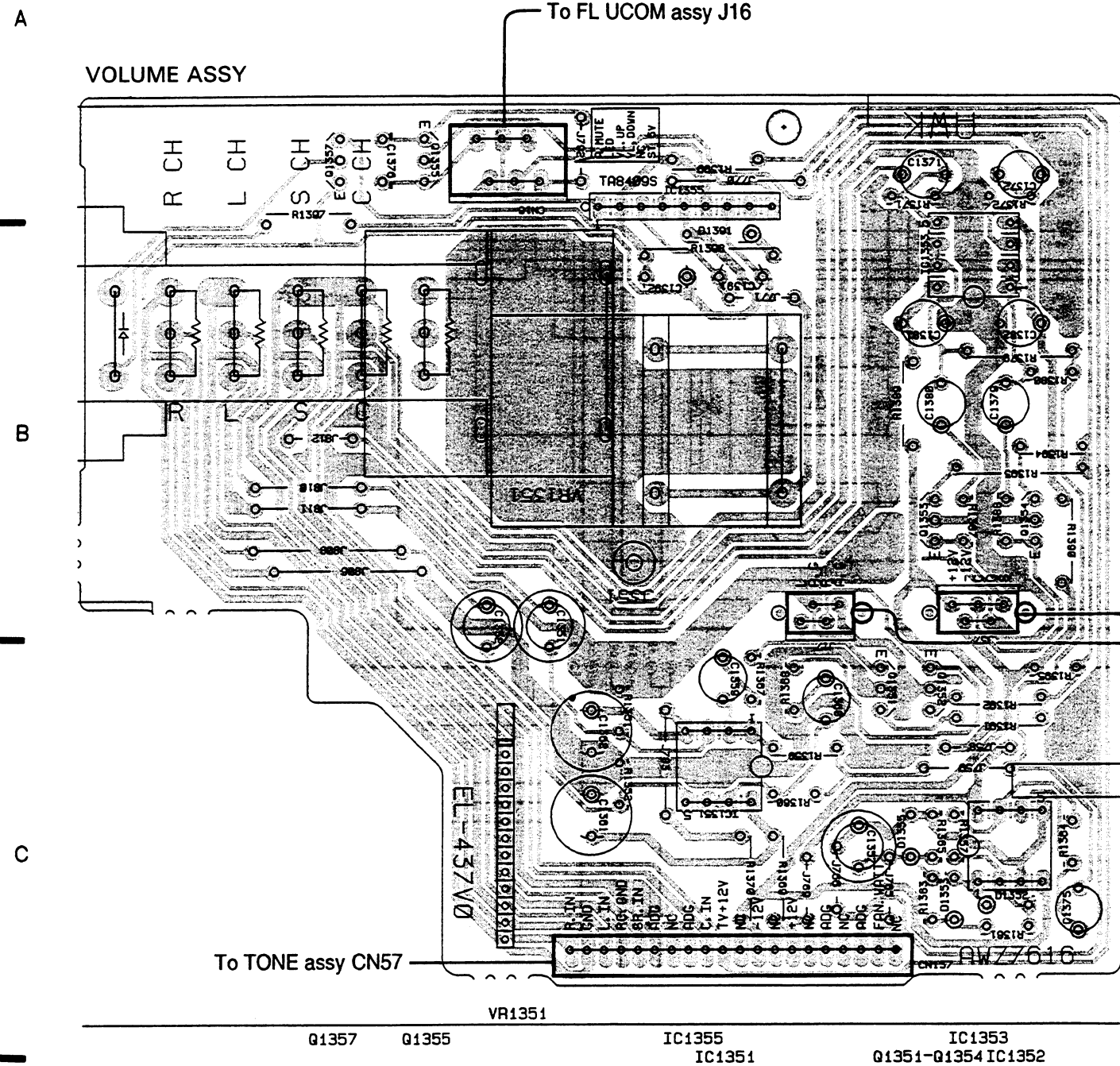
SCH-8

VOLUME ASSY, REG. ASSY, LOGIC ASSY

SCH-8

VOLUME ASSY, REG. ASSY, LOGIC ASSY

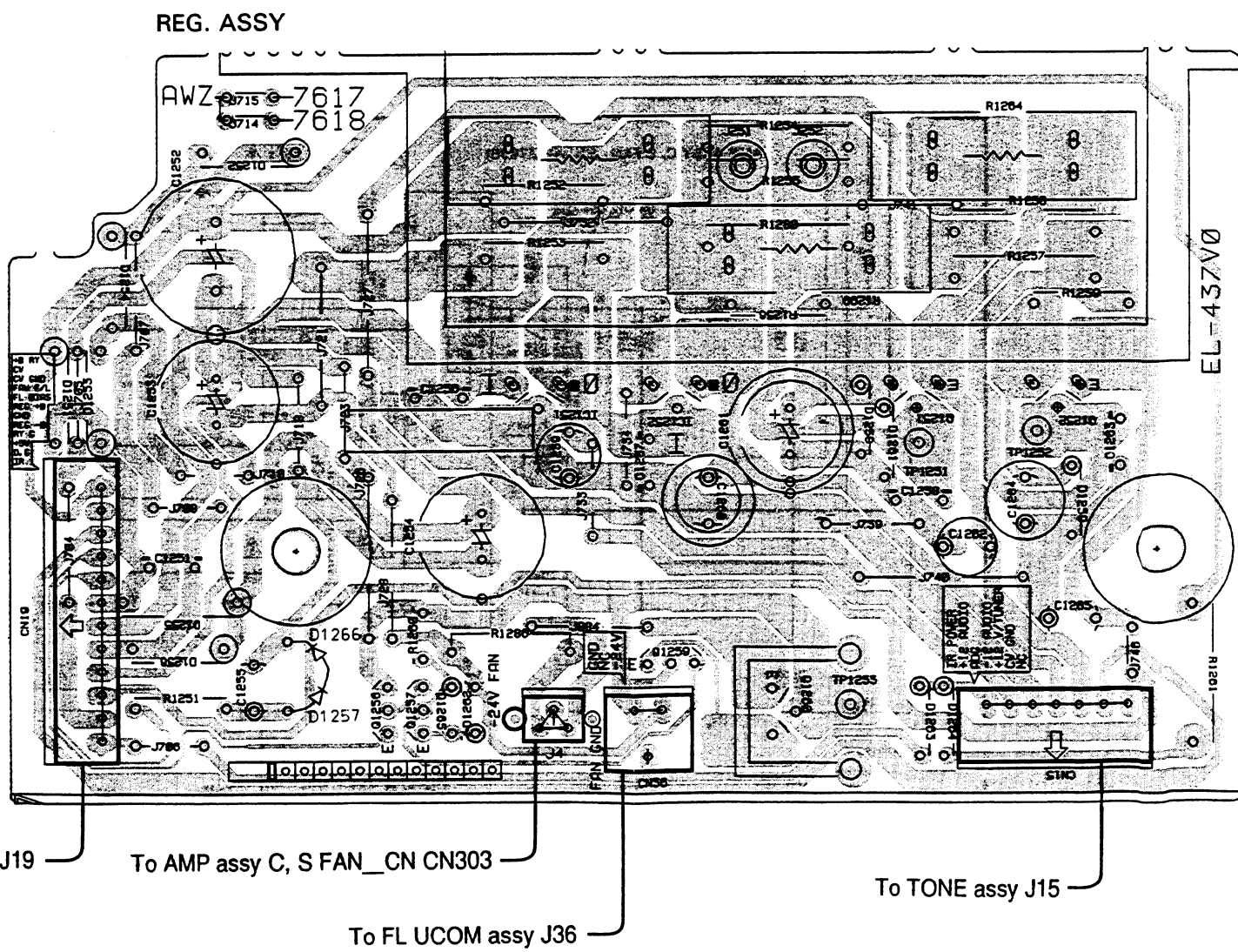
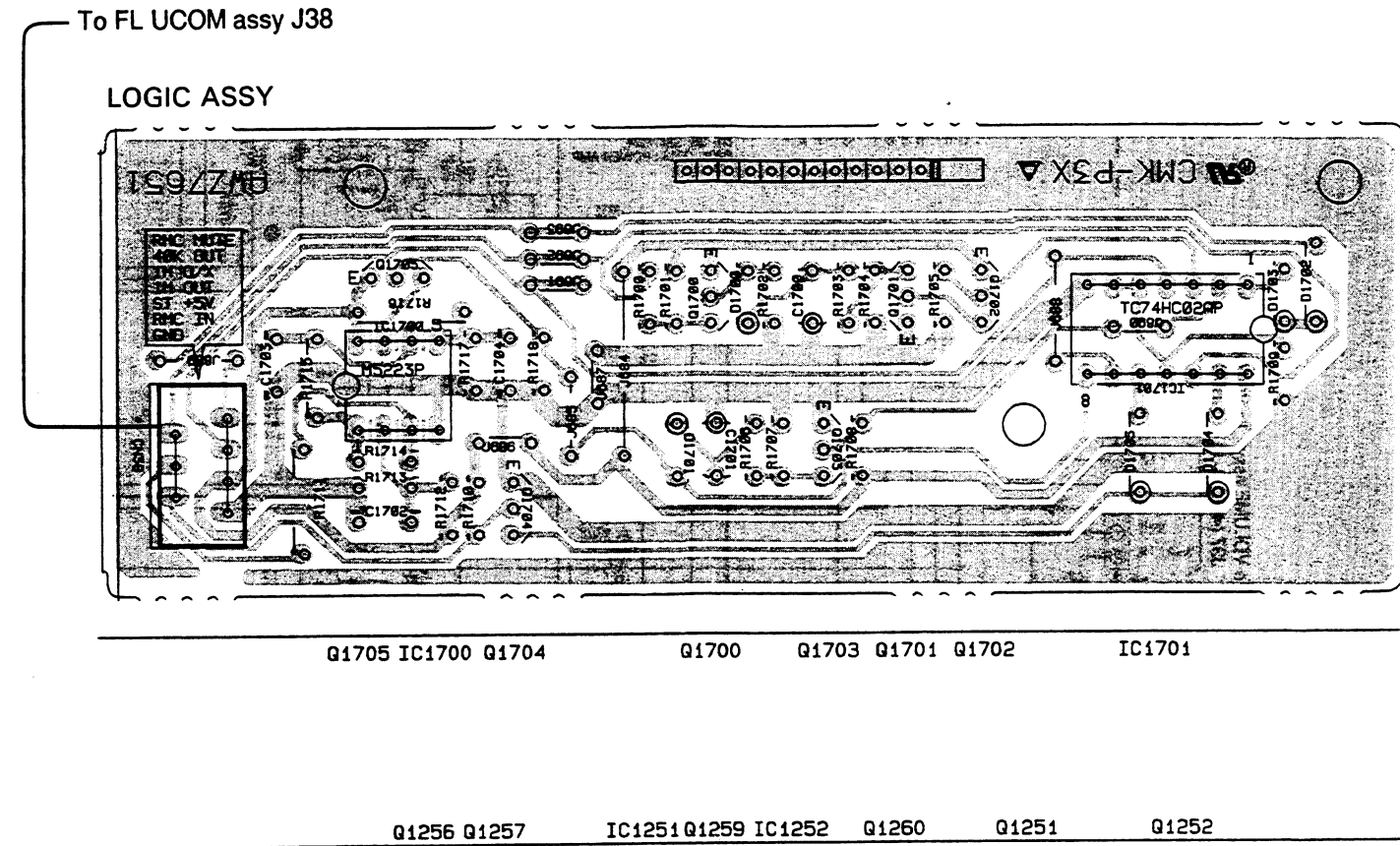
• This diagram is viewed from the mounted parts side.



To AMP assy 200W CN203

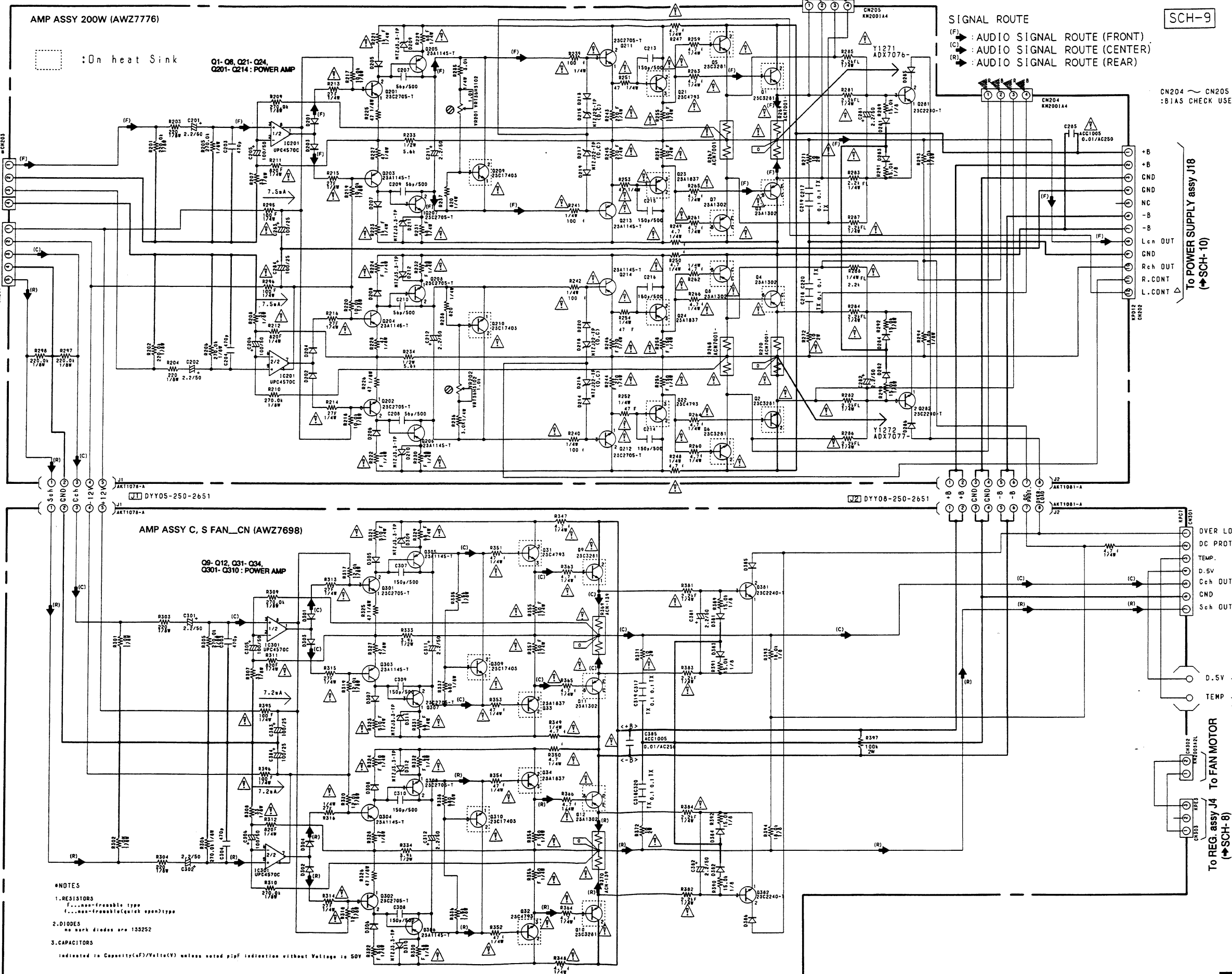
To AMP assy 200W CN201

To POWER SUPPLY assy J19



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.

3.9 AMP ASSY C, S FAN\_CN AND AMP ASSY 200W



SCH-9

AMP ASSY C, S FAN\_CN, AMP ASSY 200W

AMP ASSY C, S FAN\_CN, AMP ASSY 200W

SCH-9

A

A

B

B

C

C

D

D



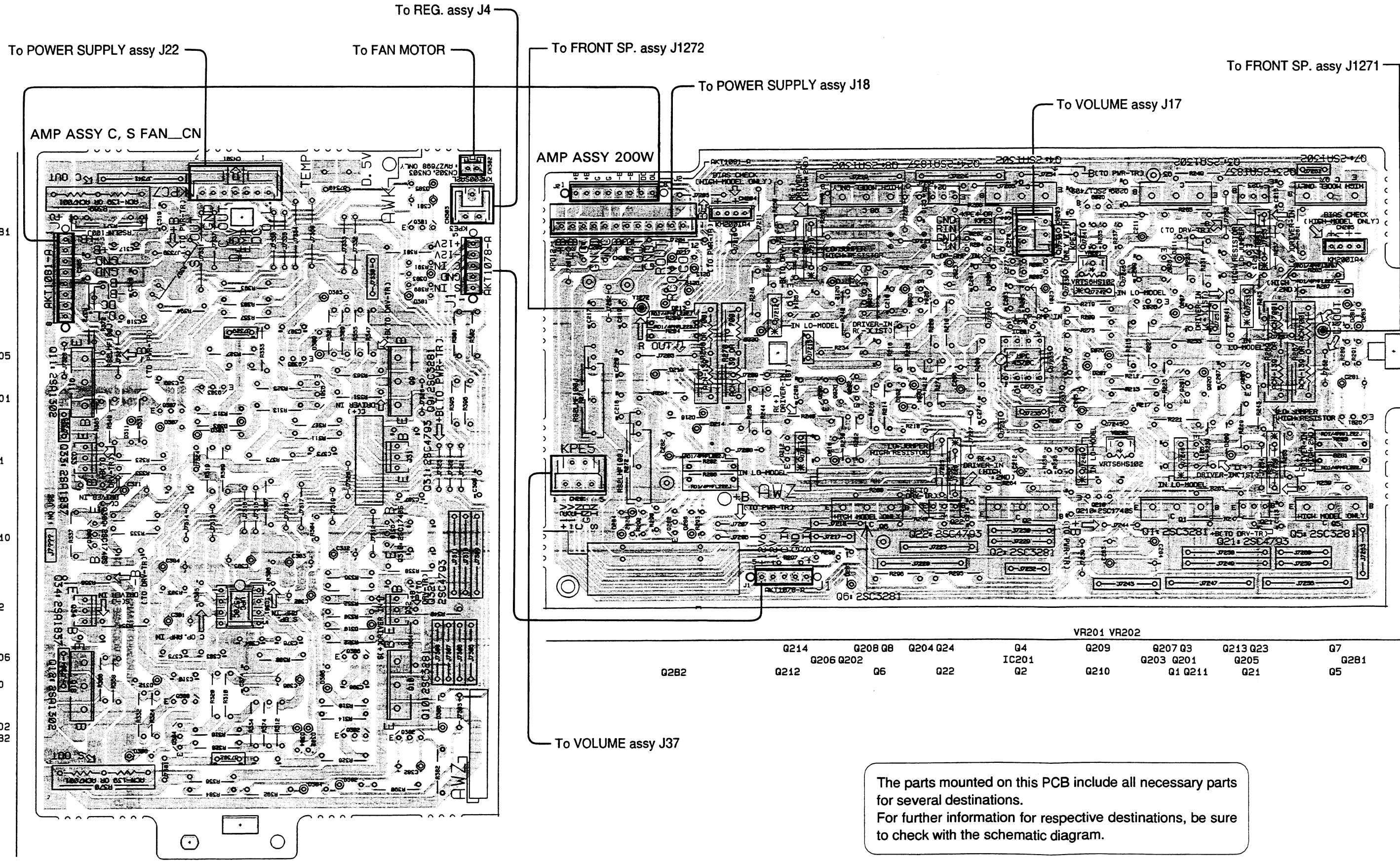
• This diagram is viewed from the mounted parts side.

A

B

C

D

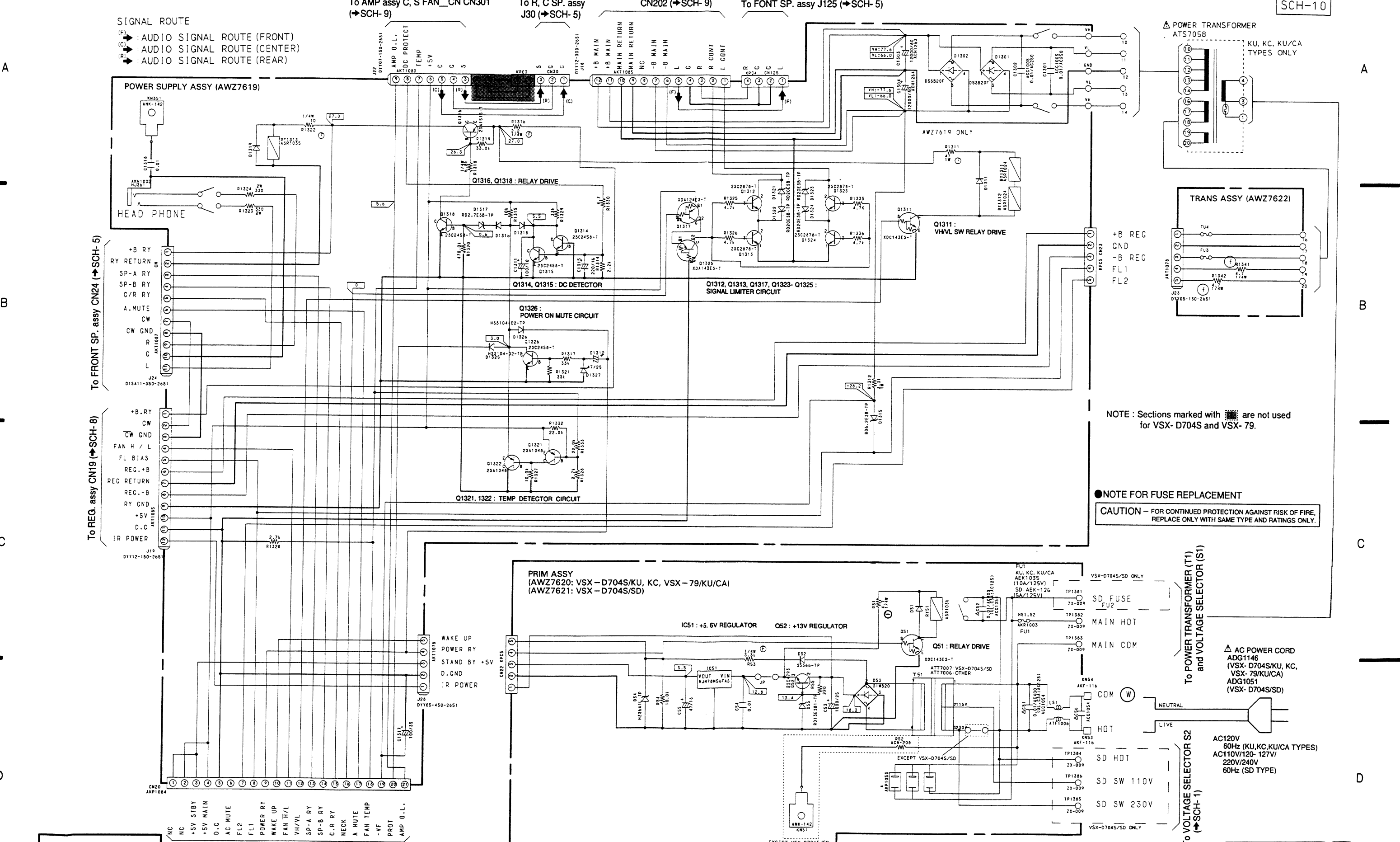


Q381  
Q305  
Q11 Q9 Q301 Q307  
Q33 Q31  
Q309 Q310  
IC301 Q34 Q32  
Q306  
Q12 Q10 Q308  
Q304 Q302 Q382

VR201 VR202  
Q214 Q208 Q8 Q204 Q24 Q4 Q209 Q207 Q3 Q213 Q23 Q7  
Q282 Q212 Q206 Q202 Q6 Q22 IC201 Q210 Q203 Q201 Q205 Q21 Q211 Q21 Q25 Q281  
Q5

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.

3.10 POWER SUPPLY ASSY, PRIM ASSY AND TRANS ASSY



SCH-10

SCH-10

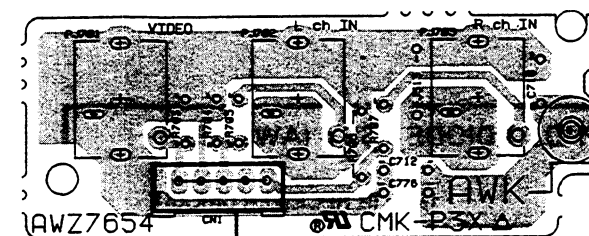
To FL UCOM assy CN120 (SCH-11)  
POWER SUPPLY ASSY, PRIM ASSY,  
TRANS ASSY

POWER SUPPLY ASSY, PRIM ASSY,  
TRANS ASSY

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.

This diagram is viewed from the mounted parts side.

VIDEO ASSY



To VIDEO FUNCTION assy CN3 and AV FUNCTION assy CN2

A

To LOGIC assy CN38

To S+SR, MR, IR assy CN137

To VOLUME assy CN16

To CONNECTION assy CN114

FL UCOM ASSY

To RF AMP assy

To RF AMP assy

To PHOTO DIODE assy

B

C

To REG. assy CN36

To POWER SUPPLY assy CN20

D

Q701 Q705 IC703 Q775 Q706 IC702

Q708 Q709 Q710

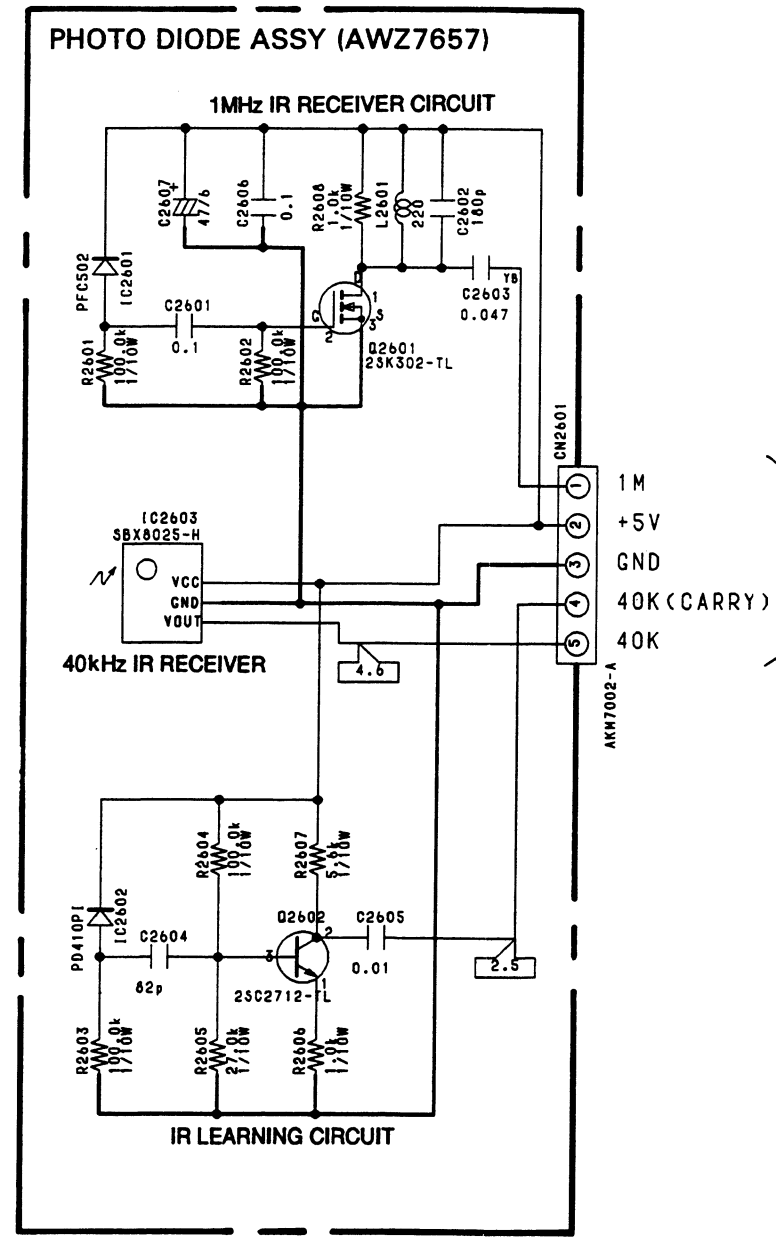
Q776 IC701

Q707

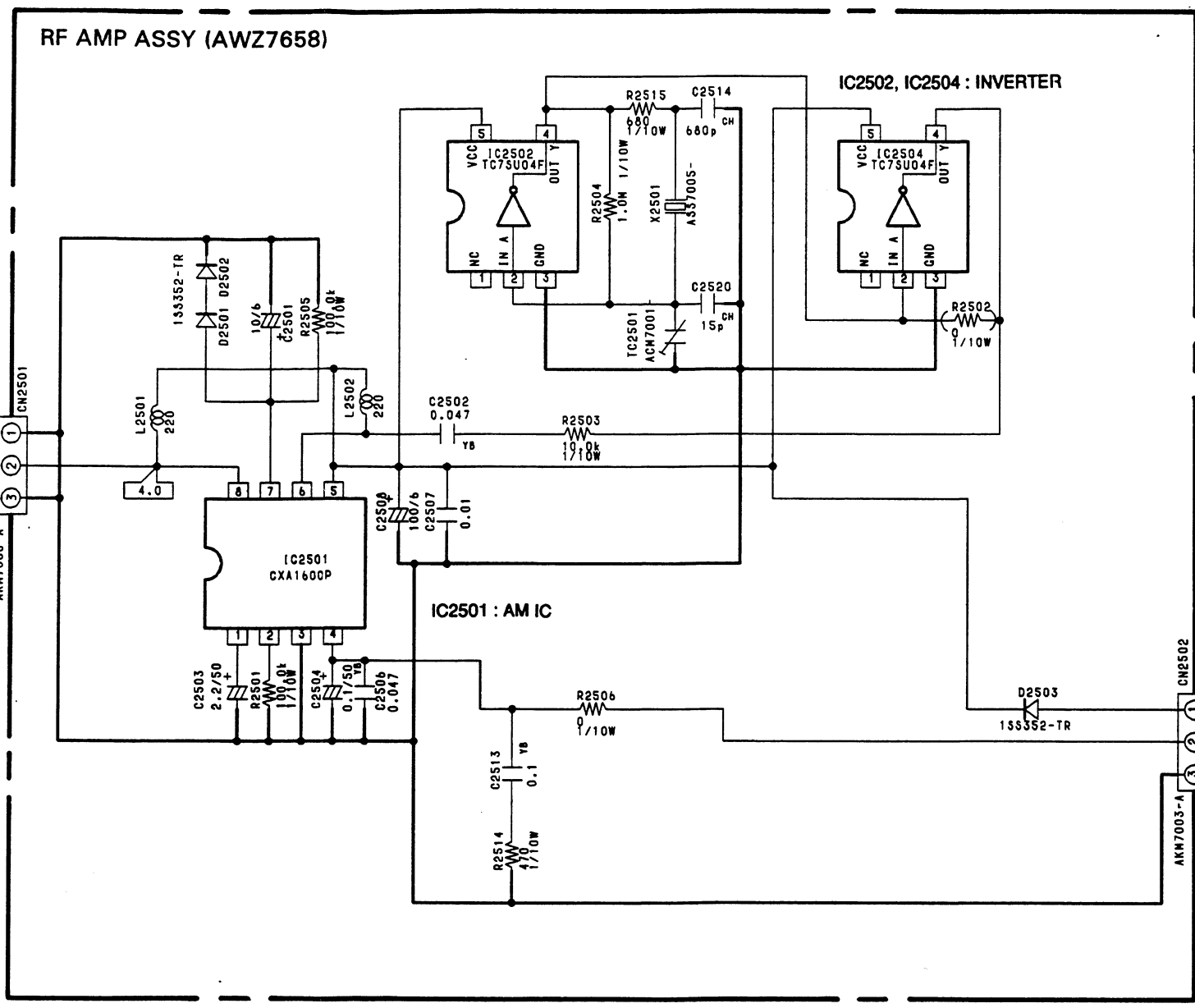
Q702 Q711 Q704

3.12 PHOTO DIODE ASSY AND RF AMP ASSY

A



To FL UCOM assy (→SCH- 11)



+5V  
1MRMC  
GND  
To FL UCOM assy (→SCH- 11)

B

A

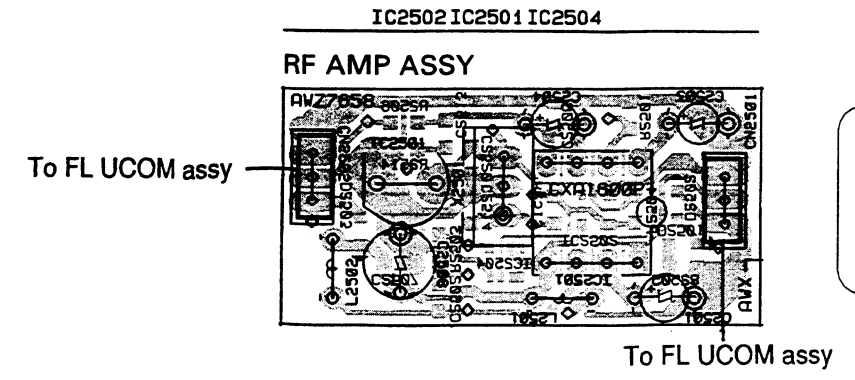
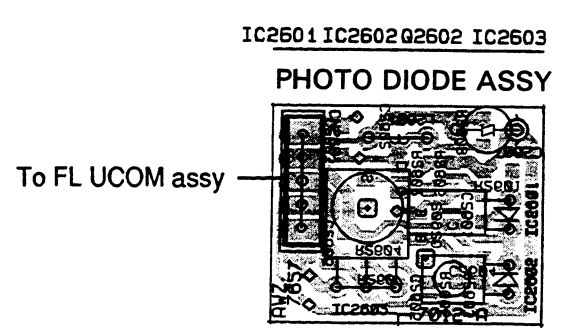
B

C

C

D

D



PCB-11

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.

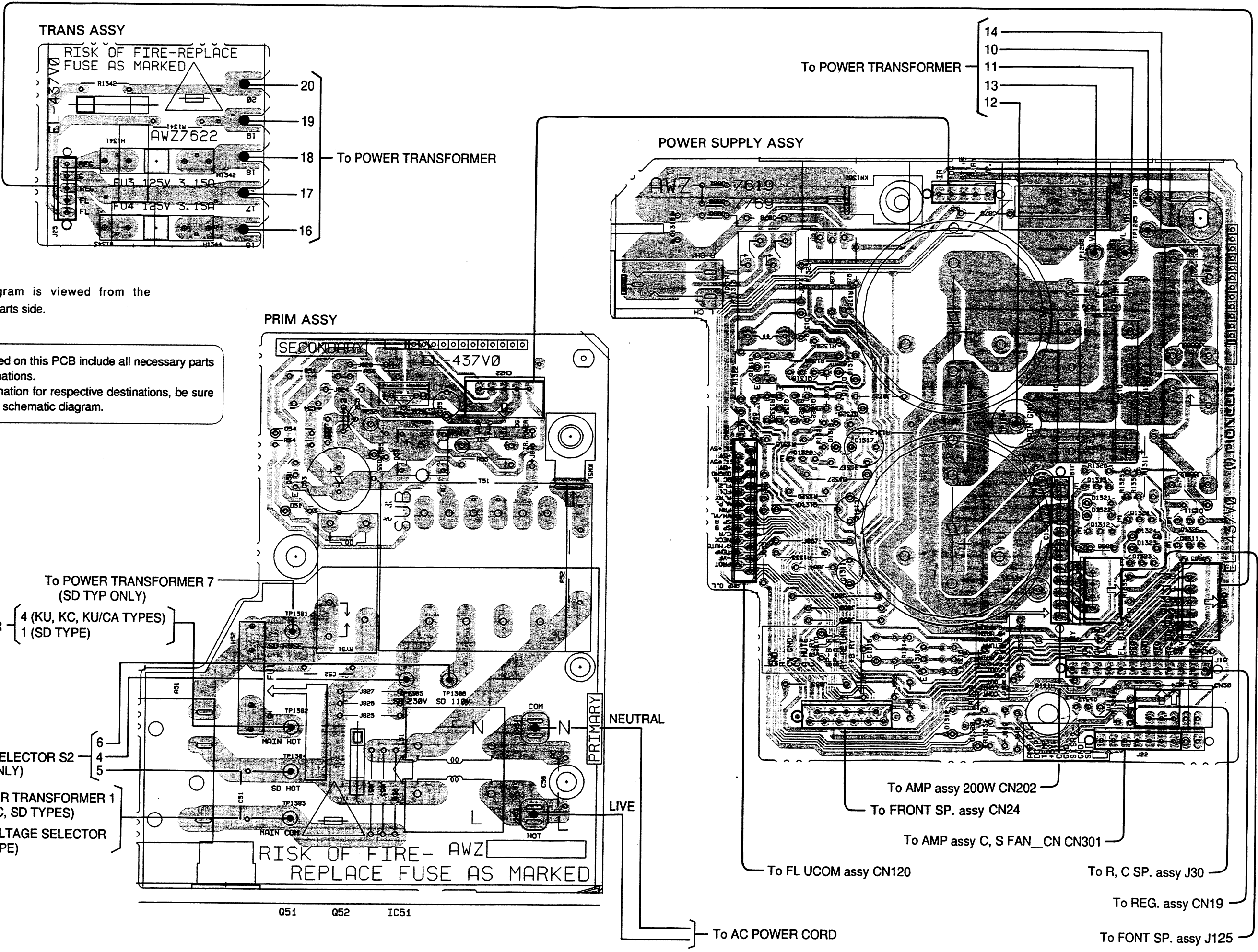
SCH-12

PHOTO DIODE ASSY, RF AMP ASSY

• This diagram is viewed from the mounted parts side.

SCH-12

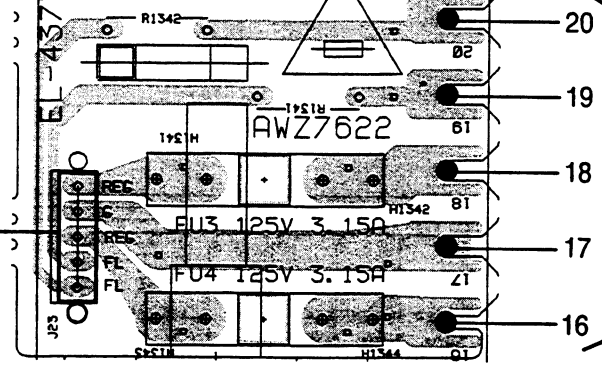
PHOTO DIODE ASSY, RF AMP ASSY



A

TRANS ASSY

RISK OF FIRE-REPLACE FUSE AS MARKED



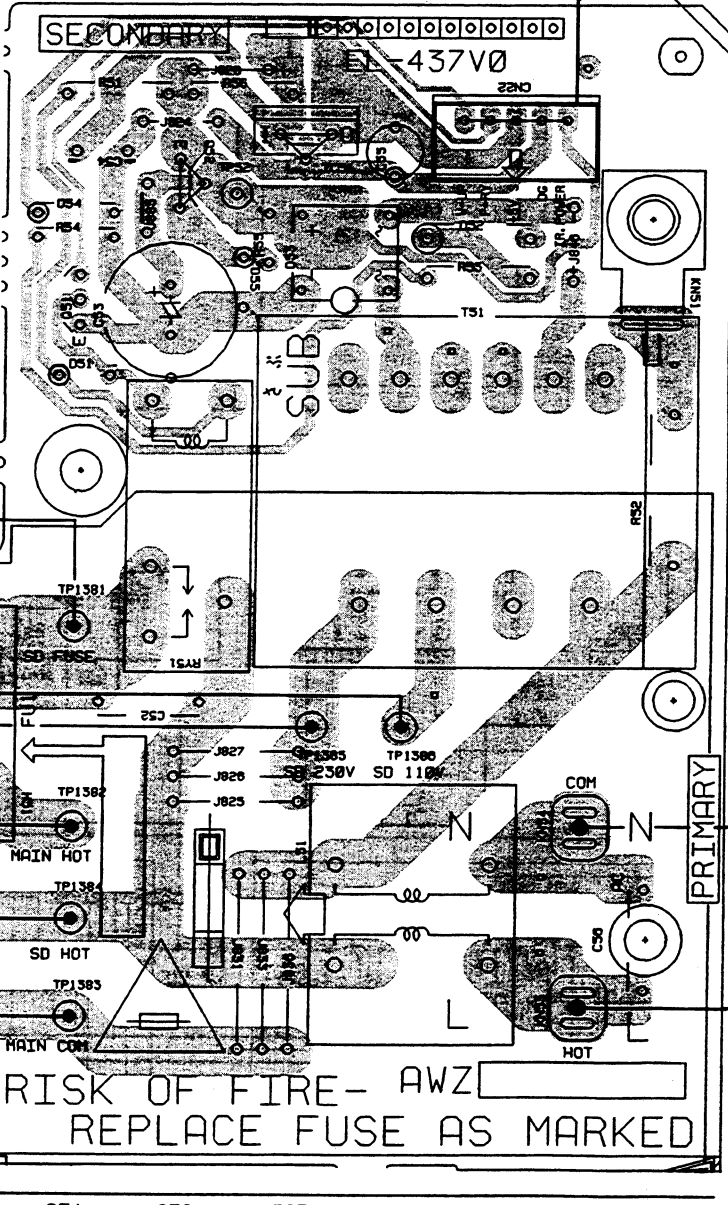
To POWER TRANSFORMER

• This diagram is viewed from the mounted parts side.

B

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.

PRIM ASSY



To POWER TRANSFORMER 7 (SD TYP ONLY)

To POWER TRANSFORMER { 4 (KU, KC, KU/CA TYPES) 1 (SD TYPE) }

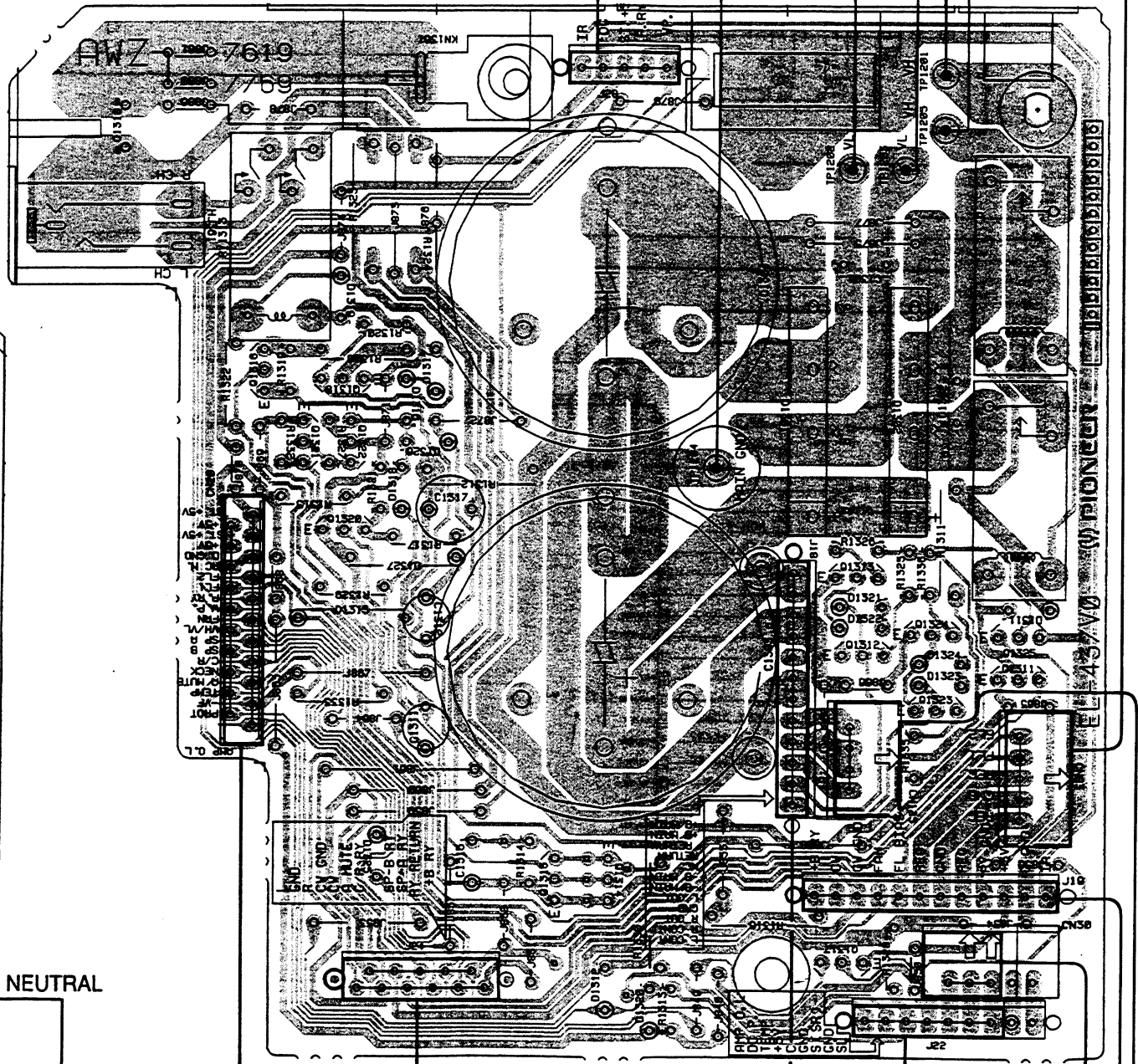
To VOLTAGE SELECTOR S2 (SD TYPE ONLY)

To POWER TRANSFORMER 1 (KU, KC, SD TYPES)

To S1 VOLTAGE SELECTOR (SD TYPE)

Q51 Q52 IC51

POWER SUPPLY ASSY



To POWER TRANSFORMER

14  
10  
11  
13  
12

To AMP assy 200W CN202

To FRONT SP. assy CN24

To AMP assy C, S FAN\_CN CN301

To FL UCOM assy CN120

To R, C SP. assy J30

To REG. assy CN19

To FONT SP. assy J125

To AC POWER CORD

Q1316  
Q1318

Q1320

Q1322

Q1311

Q1313

Q1323

Q1325

Q1314  
Q1315

Q1317

3.11 FL UCOM ASSY AND VIDEO ASSY

To AV FUNCTION assy To VIDEO FUNCTION assy  
CN2 (SCH-2) CN3 (SCH-4)

A

B

C

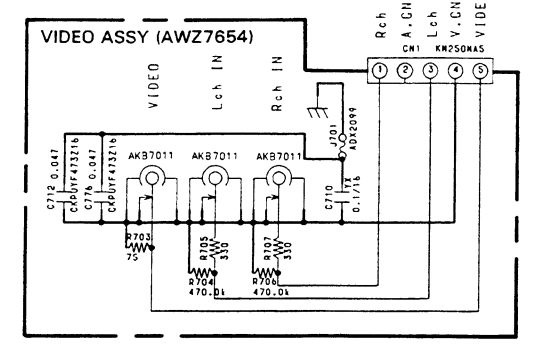
D

A

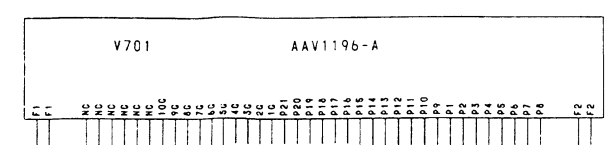
B

C

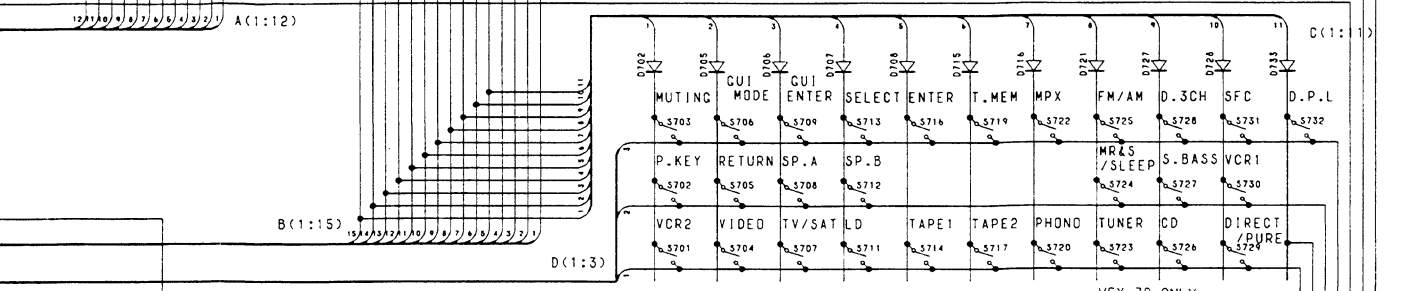
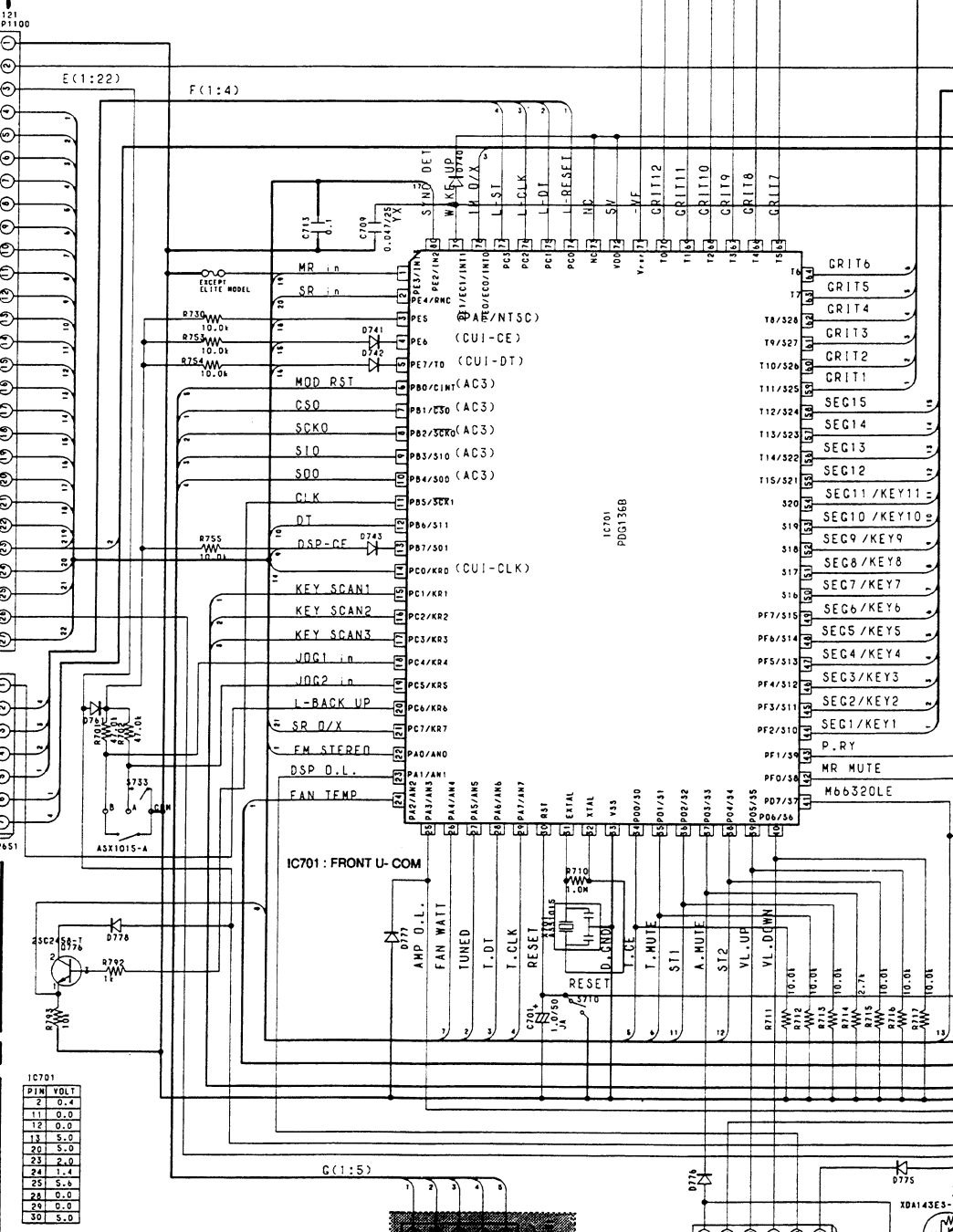
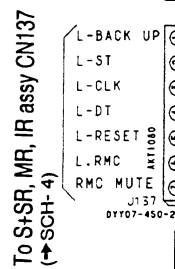
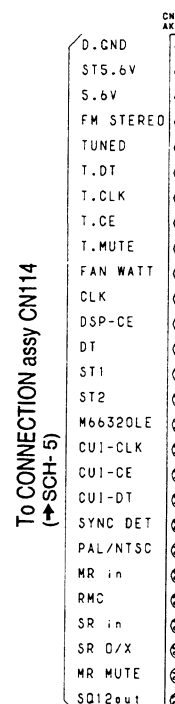
D



FL UCOM ASSY (AWZ7649: VSX-D704S)  
(AWZ7650: VSX-79)



SCH-11



SCH-11

SCH-11

SCH-11

SCH-11

SCH-11

SCH-11

FL UCOM ASSY, VIDEO ASSY

FL UCOM ASSY, VIDEO ASSY

NOTE: Sections marked with [hatched box] are not used for VSX-D704S and VSX-79.

### 4. PCB PARTS LIST (for VSX – D704S/KU)

NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  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.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- 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%).

560Ω → 56 × 10<sup>1</sup> → 561 ..... RD1/8PM  $\boxed{5} \boxed{6} \boxed{1} J$   
 47kΩ → 47 × 10<sup>3</sup> → 473 ..... RD1/4PS  $\boxed{4} \boxed{7} \boxed{3} J$   
 0.5Ω → 0R5 ..... RN2H  $\boxed{0} \boxed{R} \boxed{5} K$   
 1Ω → 010 ..... RS1P  $\boxed{0} \boxed{1} \boxed{0} K$

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

5.62kΩ → 562 × 10<sup>1</sup> → 5621 ..... RM1/4PC  $\boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
<b>LIST OF ASSEMBLIES</b>							
NSP	TUNER ASSY		AWE1140		Q401		2SK241
	BIG SIGNAL ASSY		AWK7136		Q471		2SK246
	├ VOLUME ASSY		AWZ7616		Q473, Q474		RN2201
	├ REG. ASSY		AWZ7617		D431 – D435		1SS252
	├ POWER SUPPLY ASSY		AWZ7619		D401 – D403		1SV147
	├ PRIM ASSY		AWZ7620	<b>COILS AND FILTERS</b>			
NSP	├ TRANS ASSY		AWZ7622		L401		ATC1001
NSP	├ FRONT SP. ASSY		AWZ7623		L402		ATC1002
NSP	├ R.C SP. ASSY		AWZ7626		L405		ATC1003
	├ CONNECTION ASSY		AWZ7630		L403		ATC1004
					L404		ATC1005
	SMALL SIGNAL ASSY		AWK7143		T402		ATE – 063
	├ AUDIG FUNCTION ASSY		AWZ7634		L431		ATE – 079
	├ A/V FUNCTION ASSY		AWZ7636		F421		ATF – 107
	├ VIDEO FUNCTION ASSY		AWZ7638		F422		ATF – 119
	├ TONE ASSY		AWZ7642		F431 (450KHZ)		ATF – 208
	├ S+SR, MR, IR ASSY		AWZ7645		L406, L407		LAU2R2M
	FRONT ASSY		AWK7148	<b>CAPACITORS</b>			
	├ FL UCOM ASSY		AWZ7649		C454 (470pF/50V)		ACE1039
NSP	├ LOGIC ASSY		AWZ7651		C466		CCCSL121J50
	├ VIDEO ASSY		AWZ7654		C417		CCDCH010C50
	├ IR RECEIVER ASSY		AWX7012		C406		CCDCH020C50
	├ PHOTO DIODE ASSY		AWZ7657		C415		CCDCH080D50
	├ RF AMP ASSY		AWZ7658		C413, C481, C482		CCDCH150J50
	POWER AMP MODULE 200W		AWK7175		C414		CCDCH330J50
	├ AMP ASSY C, S FAN_CN		AWZ7698		C401, C404, C405		CCDRH330J50
	├ AMP ASSY 200W		AWZ7776		C402		CCDRH390J50
	DOL. PRO. MOD. 1020		AXQ1022		C416		CCDTH180J50
<b>TUNER ASSY</b>					C479		CCPUSL220J50
<b>SEMICONDUCTORS</b>					C445		CCPUSL470J50
	IC451		AN7470P		C452		CEANP4R7M35
	IC431		LA1265S		C442		CEASOR1M50
	IC471		LM7001		C420, C437, C475		CEAS1O0M50
	Q454		2SA933S		C451		CEAS1O1M16
	Q452, Q453		2SC1740S		C456		CEAS1R5M50
					C438		CEAS2R2M50
	Q472		2SC1740SLN		C443, C455		CEAS3R3M50
	Q451		2SC2603		C458, C463, C464, C484		CEAS470M16
	Q403, Q421		2SC2668		C433, C461, C462		CEAS4R7M50
	Q402		2SC2786		C457		CEASR22M50
	Q405		2SK161		C478		CFTXA_224J50
					C477		CKCYF_103Z50
					C439, C440		CKCYF_223Z50

# VSX-D704S, VSX-79

Mark	No.	Description	Parts No.
	C435		CKCYF472Z50
	C453		CKCYF473Z50
	C436		CKCYX683M25
	C400		CKDYF102Z50
	C409, C483		CKPUYB101K50
	C444		CKPUYB331K50
	C441, C472		CKPUYF223Z25
	C403, C410-C412, C418, C419		CKPUYY103N16
	C421, C422, C465, C471, C473		CKPUYY103N16
	C476, C480, C485		CKPUYY103N16
	C459, C460		CQMA102J50
	C468, C469		CQMA182J50
	C446, C447		CQMA561K50

## RESISTORS

VR451	(4.7k $\Omega$ )	ACP1042
VR431	(10k $\Omega$ )	ACP1043
VR432		VRTS6VS153
Other Resistors		RD1/8PM□□□□

## OTHERS

	ANTENNA TERMINAL 4-P	AKA1014
X471	CRYSTAL RESONATOR	ASS1005
X431	CERAMIC FILTER	ATF-125
	AM RF TUNING BLOCK	AXX1011
CN401	12P SOCKET	KP200LA12L

## VOLUME ASSY

### SEMICONDUCTORS

IC1355	TA8409S
IC1351, IC1353	UPC4570C
IC1352	XRA4558-P
Q1351-Q1354	2SC2878
Q1355	XDA143ES
Q1357	XDC124ES
D1352, D1353	HSS104-02
D1391	RD4.3ESB
D1355	RD5.1ESB2

### CAPACITORS

C1391	CEANP101M10
C1361, C1362, C1381, C1382	CEAS100M50
C1392	CEAS101M25
C1351, C1352, C1359, C1360	CEAS4R7M50
C1371, C1372, C1375, C1379, C1380	CEAS4R7M50
C1357	CEASR47M50
C1376	CKPUYF473Z16

### RESISTORS

VR1351	(100k $\Omega$ × 4)	ACX1074
R1399		RD1/2PM470J
R1369, R1370, R1389, R1390		RD1/4PM221J
R1397		RD1/4PM621J
Other Resistors		RD1/8PM□□□□

## OTHERS

	CABLE HOLDER	AKT1012
CN157	20P SOCKET	KP200IB20L
CN16	CONNECTOR (6P)	KPE6

## REG. ASSY

### SEMICONDUCTORS

IC1251	NJM78M12FAS
IC1252	NJM79M12FA
Q1259	2SC2458
Q1251, Q1252, Q1260	2SC4793
Q1256	XDA124ES

Mark	No.	Description	Parts No.
	Q1257		XDC124ES
	D1263, D1264		1SS252
	D1257, D1266		RD11ESB2
	D1265		RD12ESB2
	D1262		RD13ESB2
	D1258, D1261		RD13ESB3
	D1259		RD6.8ESB1
	D1251-D1256		S5688G

## CAPACITORS

C1251	(0.01 $\mu$ F/150V)	ACG1005
C1259, C1260, C1262, C1265		CEAS101M25
C1261		CEAS102M16
C1253, C1254		CEAS102M35
C1252		CEAS222M35
C1264		CEAS331M10
C1255		CEAS470M25
C1256-C1258, C1263		CKCYF103Z50

## RESISTORS

R1256	RD1/4PMF122J	
R1259	RD1/4PMF562J	
R1251	RFA1/4PS470J	
R1286	RS1LMF220J	
R1253	RS1PMF220J	
R1257, R1258	RS2LMF101J	
R1254, R1255, R1280	RS2LMF180J	
R1261	RS2LMF820J	
R1252	RT5PD180K	
Other Resistors		RD1/8PM□□□□

## OTHERS

	SCREW	ABA-298
	HEAT SINK	ANH-309
CN15	CONNECTOR (7P)	KPC7
CN36	CONNECTOR (3P)	KPE3

## POWER SUPPLY ASSY

### SEMICONDUCTORS

Q1321, Q1322	2SA1048
Q1316	2SA1515
Q1314, Q1315, Q1318, Q1320	2SC2458
Q1312, Q1313, Q1323, Q1324	2SC2878
Q1317, Q1325	XDA143ES
Q1311	XDC143ES
D1301, D1302	D5SB20F
D1311, D1316, D1318, D1319	HSS104-02
D1325-D1327	HSS104-02
D1317	RD2.7ESB1
D1321-D1324	RD20ESB
D1315	RD6.2ESB

### SWITCHES AND RELAYS

RY1311, RY1312	ASR1027
RY1313	ASR1035

### CAPACITORS

C1301, C1302 (0.01 $\mu$ F/150V)	ACG1005
C1303 (12000 $\mu$ F/80V)	ACH1263
C1304 (12000 $\mu$ F/80V)	ACH1264
C1311	CEAS101M10
C1317	CEAS101M35
C1315	CEAS221M16
C1312	CEAS470M25
C1318	CKCYF103Z50



Mark	No.	Description	Parts No.
<b>RESISTORS</b>			
	R1322		RD1/4PMF100J
	R1316		RD1/4PMF2R2J
	R1318		RD1/4PMF682J
	R1330		RFA1/4PS4R7J
	R1312		RS1LMF332J
	R1311		RS1PMF470J
	R1323, R1324		RS2LMF331J
	Other Resistors		RD1/8PM□□□J

Mark	No.	Description	Parts No.
<b>OTHERS</b>			
	CN20	JACK 21P SOCKET CABLE HOLDER CABLE HOLDER (7P) CABLE HOLDER (12P)	AKN1002 AKP1084 AKT1007 AKT1080 AKT1085
	CN30	JUMPER CONNECTOR 3-P	KPC3
	CN125	CONNECTOR (4P)	KPC4
	CN23	CONNECTOR (5P)	KPC5

Mark	No.	Description	Parts No.
<b>PRIM ASSY SEMICONDUCTORS</b>			
	IC51		NJM78M56FAS
	Q52		2SC4793
	Q51		XDC143ES
	D51		HSS104-02
	D54		HZS6A1L
	D55		RD13ESB1
	D53		S1WB20
	D52		S5688G

Mark	No.	Description	Parts No.
<b>COILS AND FILTERS</b>			
	L51	(0.3mH, 270V)	ATF1006

Mark	No.	Description	Parts No.
<b>TRANSFORMERS</b>			
	T51		ATT7006

Mark	No.	Description	Parts No.
<b>SWITCHES AND RELAYS</b>			
	RY51		ASR1036

Mark	No.	Description	Parts No.
<b>CAPACITORS</b>			
	C51, C52, C56		ACG1054
	C53		CEAS102M25
	C55		CEAS470M25
	C54		CKCYB103K50

Mark	No.	Description	Parts No.
<b>RESISTORS</b>			
	R52	(2.2MΩ, 1/2W)	ACN-208
	R53		RD1/4PMF332J
	R51		RD1/4PMF4R7J
	Other Resistors		RD1/8PM□□□J

Mark	No.	Description	Parts No.
<b>OTHERS</b>			
	△	AC OUTLET 3P	AKP1053
	△	H51, H52 FUSE CLIP	AKR1003
	CN22	CONNECTOR (5P)	KPC5

Mark	No.	Description	Parts No.
<b>TRANS ASSY RESISTORS</b>			
	R1341, R1342		RFA1/4PL4R7J

Mark	No.	Description	Parts No.
<b>OTHERS</b>			
	△	H1341-H1344 FUSE CLIP	AKR1003

Mark	No.	Description	Parts No.
<b>FRONT SP. ASSY SEMICONDUCTORS</b>			
	Q1282, Q1283		XDC143ES
	D1282, D1283		HSS104-02
<b>SWITCHES AND RELAYS</b>			
	RY1282, RY1283		ASR1035

Mark	No.	Description	Parts No.
<b>RESISTORS</b>			
	R1282, R1283		RD1/4PMF100J
	Other Resistors		RD1/8PM□□□J

Mark	No.	Description	Parts No.
<b>OTHERS</b>			
	CN8004	SPEAKER TERMINAL 8-P CABLE HOLDER (4P)	AKE1048 AKT1077
	CN26	CONNECTOR (4P)	KPC4
	CN24	CONNECTOR (11P)	KPE11
	CN27	CONNECTOR (6P)	KPE6

Mark	No.	Description	Parts No.
<b>R.C SP. ASSY SEMICONDUCTORS</b>			
	Q1291		2SC2878
	Q1271		XDC143ES
	D1271		HSS104-02

Mark	No.	Description	Parts No.
<b>SWITCHES AND RELAYS</b>			
	RY1271		ASR1035

Mark	No.	Description	Parts No.
<b>CAPACITORS</b>			
	C1291, C1292		CEANPR47M50

Mark	No.	Description	Parts No.
<b>RESISTORS</b>			
	R1272		RD1/4PMF100J
	Other Resistors		RD1/8PM□□□J

Mark	No.	Description	Parts No.
<b>OTHERS</b>			
	CN8007	2P PIN JACK	AKB7008
	CN8016	SPEAKER TERMINAL 2-P SPEAKER TERMINAL 4-P CABLE HOLDER (3P) CABLE HOLDER (4P)	AKE1041 AKE1055 AKT1076 AKT1077

Mark	No.	Description	Parts No.
<b>CONNECTION ASSY SEMICONDUCTORS</b>			
	Q622		2SA1515
	Q623		2SC2458
	D624		1SS252
	D623		RD5.1ESB2

Mark	No.	Description	Parts No.
<b>CAPACITORS</b>			
	C623, C624		CCCCH101J50
	C637, C638		CCCCL101J50
	C639		CEAS101M25
	C640		CEAS470M25

Mark	No.	Description	Parts No.
<b>RESISTORS</b>			
	R639		RD1/2PM181J
	R638		RD1/4PMF150J
	Other Resistors		RD1/8PM□□□J

Mark	No.	Description	Parts No.
<b>OTHERS</b>			
	CN114	SOCKET (27P)	AKP1099
	CN53	10P PLUG	KM200LB10
	CN54	11P PLUG	KM200LB11
	CN51	12P PLUG	KM200LB12
	CN52	13P PLUG	KM200LB13
	CN56	8P PLUG	KM200LB8
	CN55, CN59	9P PLUG	KM200LB9

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Mark	No.	Description	Parts No.
<b>AUDIO FUNCTION ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC404		M5220P
	IC401		TC9164AN
	IC403		XRA4558-P
<b>CAPACITORS</b>			
	C1402, C1403		CCSQCH101J50
	C447		CCSQCH102J50
	C419, C420		CCSQCH221J50
	C417, C418		CCSQCH681J50
	C423, C424		CCSQSL101J50
	C415, C416		CEAS100M50
	C421, C422, C431, C432		CEAS101M25
	C433, C434, C439, C440		CEAS2R2M50
	C1401, C429, C430, C435, C436		CKSQYF103Z50
	C441, C444		CKSQYF103Z50
	C427, C428		CQMA242J50
	C425, C426		CQMA822J50
<b>RESISTORS</b>			
	All Resistors		RS1/10S□□□□
<b>OTHERS</b>			
	PIN JACK (6P)		AKB7012
	PIN JACK (6P)		AKB7013
	CABLE HOLDER (11P)		AKT1084
	CN152 13P SOCKET		KP200IB13L
<b>A/V FUNCTION ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC451		TC9163AN
<b>CAPACITORS</b>			
	C494, C495		CCSQCH101J50
	C487		CCSQCH102J50
	C481, C482		CEAS470M25
	C475, C476, C483, C484, C491		CKSQYF103Z50
<b>RESISTORS</b>			
	All Resistors		RS1/10S□□□□
<b>OTHERS</b>			
	PIN JACK (4P)		AKB7014
	PIN JACK (4P)		AKB7015
	CN2 PLUG 3-P		KM250MA3L
	CN153 10P SOCKET		KP200IB10L
	CN11 L-CONNECTOR (11P)		KPD11L
<b>VIDEO FUNCTION ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC501		LA7951
	IC504		M66320FP
	IC505		MM1067XD
	IC502		NJM2233BLA
	IC508		NJM2243L
	IC506		PD6157A
	IC510		UPC78L05J
	Q504-Q506		2SA1115
	Q507		2SA1515
	Q501		2SC2458
	D501-D503		HSS104-02
<b>COILS AND FILTERS</b>			
	L504		LAU220J
	L501, L502, L506-L508		LAU680J

Mark	No.	Description	Parts No.
<b>CAPACITORS</b>			
	TC501		ACM-023
	C1507, C1508		CCSQCH050C50
	C1521		CCSQCH101J50
	C537, C541		CCSQCH150J50
	C529		CCSQCH221J50
	C542		CCSQCH330J50
	C501		CCSQCH331J50
	C519, C528		CCSQCH561J50
	C525, C526		CEAS010M50
	C1514, C520, C522		CEAS100M50
	C534		CEAS101M10
	C513		CEAS101M25
	C1502-C1504, C502-C506		CEAS470M25
	C516-C518, C532, C540, C544		CEAS470M25
	C548, C550		CEAS470M25
	C1510-C1512		CEAS471M10
	C530		CEASR47M50
	C1515, C1516, C1519, C531		CKSQYB102K50
	C1517, C1518		CKSQYB104K25
	C527		CKSQYB332K50
	C1505, C1506, C514, C515, C521		CKSQYF103Z50
	C533, C536, C539, C546		CKSQYF103Z50
	C523		CKSQYF473Z50
<b>RESISTORS</b>			
	R540, R541		RD1/2PM331J
	R532		RD1/4PM680J
	Other Resistors		RS1/10S□□□□
<b>OTHERS</b>			
	PIN JACK (2P)		AKB7016
	2P RCA PINJACK		AKB7017
	3P RCA PINJACK		AKB7018
	X502 CRYSTAL RESONATOR		ASS1056
	X501 CERAMIC RESONATOR		ASS1112
	CN3 PLUG 3-P		KM250MA3L
	CN154 11P SOCKET		KP200IB11L
	CN155 9P SOCKET		KP200IB9L
<b>TONE ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC554		TC9162AN
	IC551		XRA4558N-P
	Q551-Q554		2SC2458
<b>CAPACITORS</b>			
	C569, C570		CCSQCH101J50
	C603		CCSQCH471J50
	C553, C554		CEAS010M50
	C565-C568		CEAS100M50
	C551, C552		CEAS4R7M50
	C557, C558		CEASR47M50
	C555, C556		CFTXA154J50
	C559, C560		CFTXA473J50
	C602		CKCYF103Z50
	C563, C564		CKPUYB151K50
	C601		CKSQYF103Z50
	C561, C562		CQMA153J50
<b>RESISTORS</b>			
	VR553 (10kΩ-B×2)		ACS1029
	VR551, VR552 (30kΩ-B5×2)		ACS1115
	R579, R580		RD1/4PM221J
	R590, R594-R597, R601		RS1/10S000J
	R605, R606		RS1/10S000J

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	R602 - R604 R555, R556 R577 R560 Other Resistors		RS1/10S102J RS1/10S104J RS1/10S272J RS1/10S512J RD1/8PM□□□□		D701 - D710, D715, D716 D721, D722, D727 - D729, D733 D738, D740 - D743, D761 D773 - D779		HSS104 - 02 HSS104 - 02 HSS104 - 02 HSS104 - 02
<b>OTHERS</b>				<b>COILS AND FILTERS</b>			
	CN58 CABLE HOLDER (7P) CN57 15P PLUG CN13 20P PLUG CN13 CONNECTOR (14P)		AKT1080 KM200IB15 KM200IB20 KPE14		L701 L702		LAU220K LAU221K
<b>S+SR, MR, IR ASSY</b>				<b>SWITCHES AND RELAYS</b>			
<b>SEMICONDUCTORS</b>					S701 - S714, S716, S717 S719, S720, S722 - S732 S733		ASG1034 ASG1034 ASX1015
	IC658 IC657 IC656 Q657 Q655, Q662, Q663		LH5268AN1TLL PD5320A TC74HC123AF 2SA1048 2SC2458	<b>CAPACITORS</b>			
	Q665 Q664 D666 D651 - D653, D657, D658 D660 - D665		2SC3732 XDC124ES 1SS252 HSS104 - 02 HSS104 - 02		C707 C704, C706 C772 C708 C701		ACH1246 CEAS010M50 CEAS221M16 CEAS470M50 CEJA010M50
	D659		RD3.0ESB1		C702 C711, C777 C713 C705, C709, C773, C774 C771		CEJA101M10 CKCYB102K50 CKCYX104M25 CKCYX473M25 CKPUYF103Z25
<b>COILS AND FILTERS</b>					C703, C775		CKPUYF473Z16
	L659		LAU220K	<b>RESISTORS</b>			
<b>CAPACITORS</b>					R725, R728, R731 Other Resistors		RD1/4PM271J RD1/8PM□□□□
	C692 C690 C693 C688, C689, C696, C697 C698		ACH1246 CEAS101M10 CEAS470M25 CKSQYB102K50 CEAS1R5M50	<b>OTHERS</b>			
	C691 C694, C695		CKSQYF103Z50 CKSQYF473Z50		V701 FL TUBE CN120 21P SOCKET CN121 SOCKET (27P) CABLE HOLDER (7P) SHIELD CASE A (MET)		AAV1196 AKP1086 AKP1100 AKT1080 ANK7009
<b>RESISTORS</b>					SHIELD CASE B (MET) CERAMIC RESONATOR		ANK7010 ASS1015
	All Resistors		RS1/10S□□□□	<b>LOGIC ASSY</b>			
<b>OTHERS</b>				<b>SEMICONDUCTORS</b>			
	CN1001 JACK CN1002 JACK X651 CERAMIC RESONATOR JACK CN156 8P SOCKET CN159 9P SOCKET		AKN - 209 AKN1028 ASS1025 BKN1005 KP200IB8L KP200IB9L		IC1700 IC1701 Q1700 Q1701, Q1703 Q1702, Q1705		M5223P TC74HC02AP 2SA1048 2SC2458 XDA124ES
<b>FL UCOM ASSY</b>					Q1704 D1700 - D1705		XDC124ES HSS104 - 02
<b>SEMICONDUCTORS</b>				<b>CAPACITORS</b>			
	IC703 IC702 IC701 Q702, Q705 - Q708, Q710 Q775, Q776		M5218AP M66320FP PDG136B 2SC2458 2SC2458		C1701 C1700 C1702, C1704 C1703		CEAS100M50 CEAS4R7M50 CKCYF103Z50 CFTA103J50
	Q711 Q709 Q701 Q704 D711 - D714, D717 - D720		XDA124ES XDA143ES XDC124ES XDC143ES AEL1100	<b>RESISTORS</b>			
	D723 - D726, D735 - D737, D739 D745 - D756 D734		AEL1100 AEL1100 BR3361XJ65A		All Resistors		RD1/8PM□□□□
<b>VIDEO ASSY</b>				<b>OTHERS</b>			
<b>CAPACITORS</b>					CN38 CONNECTOR (7P)		KPE7
	C710 C712, C776		CKCYX104M16 CKPUYF473Z16	<b>VIDEO ASSY</b>			

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Mark	No.	Description	Parts No.
<b>RESISTORS</b>			
	All Resistors		RD1/8PM□□□□
<b>OTHERS</b>			
CN1	PIN JACK (1P) PLUG 5-P		AKB7011 KM250MA5

## PHOTO DIODE ASSY SEMICONDUCTORS

IC2602	PD410PI
IC2601	PFC502
IC2603	SBX8025-H
Q2602	2SC2712
Q2601	2SK302

## COILS AND FILTERS

L2601	LAU221K
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## CAPACITORS

C2602	CCSQCH181J50
C2604	CCSQCH820J50
C2607	CEAL470M6R3
C2605	CKSQYB103K50
C2603	CKSQYB473K50
C2601, C2606	CKSQYF104Z25

## RESISTORS

All Resistors		RS1/10S□□□□
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## OTHERS

LED HOLDER (PLS)	AMR7040
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## RF AMP ASSY

### SEMICONDUCTORS

IC2501	CXA1600P
IC2502, IC2504	TC7SU04F
D2501 - D2503	1SS352

## COILS AND FILTERS

L2501, L2502	LAU221K
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## CAPACITORS

TC2501	ACM7001
C2520	CCSQCH150J50
C2514	CCSQCH681J50
C2501	CEAL100M6R3
C2508	CEAL101M6R3
C2503	CEAL2R2M35
C2504	CEALR10M50
C2507	CKSQYB103K50
C2513	CKSQYB104K25
C2502, C2506	CKSQYB473K50

## RESISTORS

All Resistors		RS1/10S□□□□
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## OTHERS

X2501	CERAMIC RESONATOR	ASS7005
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Mark	No.	Description	Parts No.
<b>AMP ASSY C, S FAN_CN.</b>			
<b>SEMICONDUCTORS</b>			
	IC301		UPC4570C
	Q303-Q306		2SA1145
	Q381, Q382		2SC2240
	Q301, Q302, Q307, Q308		2SC2705
	D301-D308, D381-D386		1SS252
	D309-D312		MTZJ3.3

## CAPACITORS

△	C385 (0.01μF/150V)	ACG1005
	C307-C310	CCCSL151K500
	C383, C384	CEAS101M25
	C305, C306	CEAS101M50
	C301, C302, C311, C312	CEAS2R2M50
	C381, C382	CEAS2R2M50
	C317-C320	CFTXA104J50
	C303, C304	CKCYB471K50

## RESISTORS

△	R369, R370 (0.33Ω, 5W)	ACN-139
	R333, R334	RD1/2PM392J
△	R395, R396	RD1/4PMF101J
△	R355-R358	RD1/4PMF151J
△	R381-R384	RD1/4PMF222J
△	R313-R316	RD1/4PMF270J
△	R321-R324	RD1/4PMF511J
△	R329-R332	RD1/4PMF680J
△	R311, R312	RD1/4PMF821J
△	R351-R354	RFA1/4PS470J
△	R347-R350, R363-R366	RFA1/4PS4R7J
△	R371, R372	RS2LMF100J
	R397	RS2LMF104J
	Other Resistors	RD1/8PM□□□□

## OTHERS

CABLE HOLDER (8P)	AKT1081
CN301 CONNECTOR (7P)	KPC7
CN303 CONNECTOR (3P)	KPE3

## AMP ASSY 200W

### SEMICONDUCTORS

IC201	UPC4570C
Q203-Q206, Q213, Q214	2SA1145
Q281, Q282	2SC2240
Q201, Q202, Q207, Q208	2SC2705
Q211, Q212	2SC2705
D201-D208, D213, D214	1SS252
D219, D220, D281-D286	1SS252
D215-D218	MTZJ22D
D209-D212	MTZJ3.3

## CAPACITORS

C285 (0.01μF/150V)	ACG1005
C213-C216	CCCSL151K500
C207-C210	CCCSL560K500
C283, C284	CEAS101M25
C205, C206	CEAS101M50
C201, C202, C211, C212	CEAS2R2M50
C281, C282	CEAS2R2M50
C217-C220	CFTXA104J50
C203, C204	CKCYB471K50



## 5. DISASSEMBLY

### 5.1 HOW TO REMOVE THE PCB ASSY

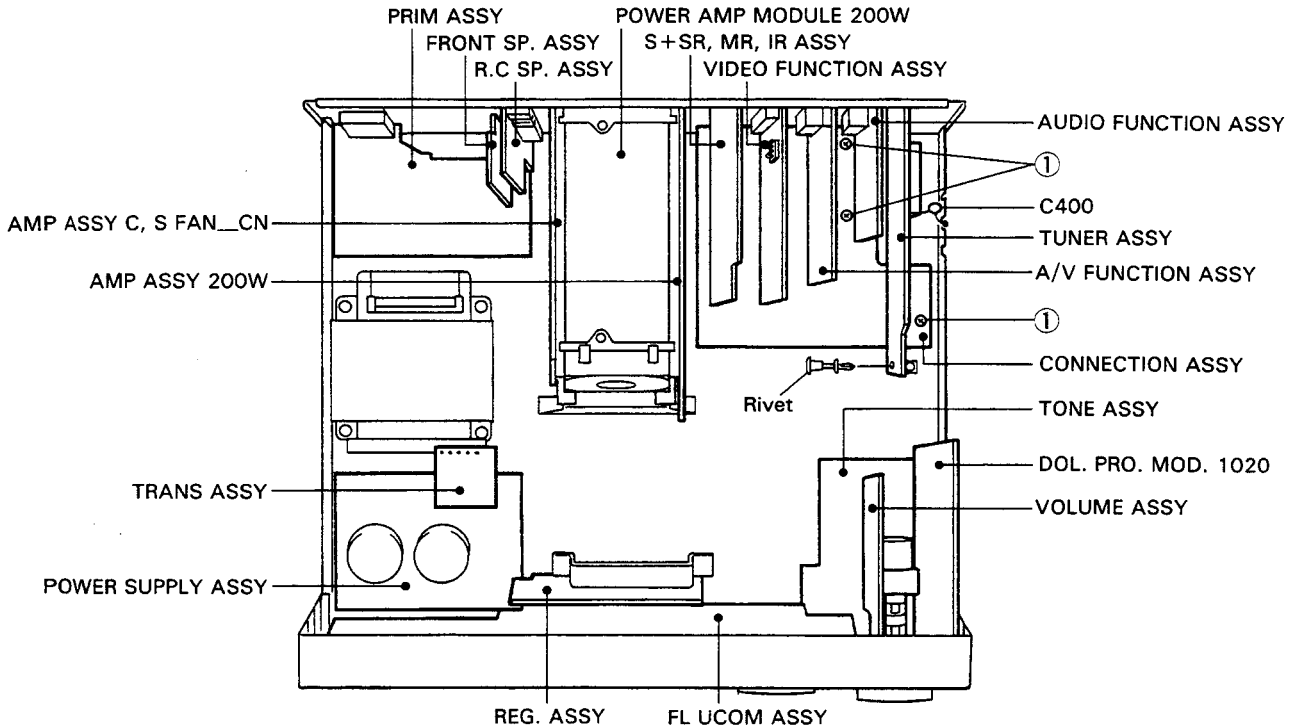


Fig. 5-1

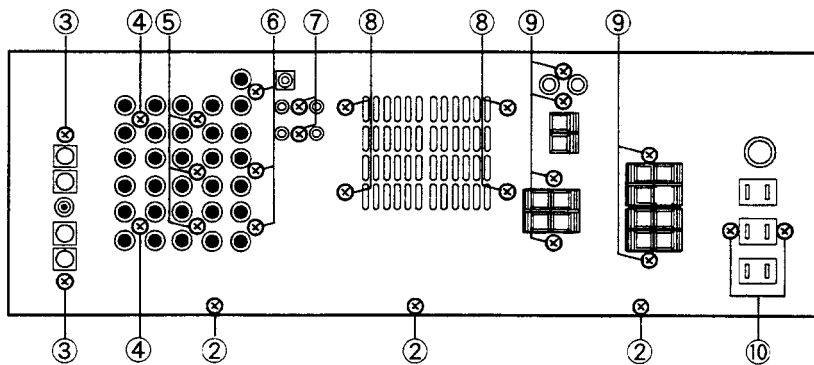


Fig. 5-2

#### ● TUNER Assy

1. Remove the capacitor (C400) (chassis side).
2. Remove the rivet, and then remove the screw ③ from the rear panel side.

#### ● AUDIO FUNCTION Assy, A/V FUNCTION Assy, VIDEO FUNCTION Assy and S+SR, MR, IR Assy

1. Remove the screws ② to ⑧ from the rear panel side.
2. Pull the rear panel towards you, and remove the pin jacks of the PCB assemblies from the pin jack holes of the rear panel.
3. Raise each PCB assembly to remove it.
4. When removal is difficult even after the screws ② to ⑧ have been removed, also remove the screws ⑨ and ⑩.

#### ● CONNECTION Assy

1. After removal of the capacitor (C400), remove the screws ② to ⑧. When removal is difficult even after the screws ② to ⑧ have been removed, also remove the screws ⑨ and ⑩.
2. Remove the rivet and screw ①.
3. Remove the CONNECTION assy from the PCB holder.

## 5.2 FRONT PANEL SECTION

1. Remove the BALANCE knob.
2. Remove the screws ① fixing both front panel L/R sides and the screw ② fixing the front panel bottom side.
3. Remove the rivet and remove the DOL. PRO. MOD. 1020 PCB.
4. Remove the MASTER VOLUME knob and screw ③.
5. Remove the screw ④ and then remove the volume holder.  
The volume holder can be removed by pressing the hook part ⑤ of the front panel with a screwdriver to disengage the lock. (Refer to Fig. 5-4)
6. Press the hook at the bottom side of the front panel to disengage the lock with the chassis, and quietly pull the front panel to the front.

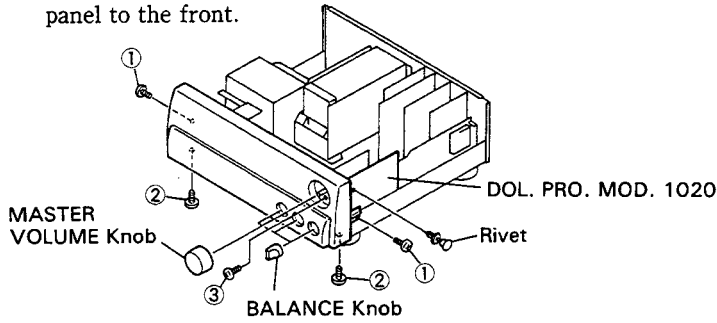


Fig. 5-3

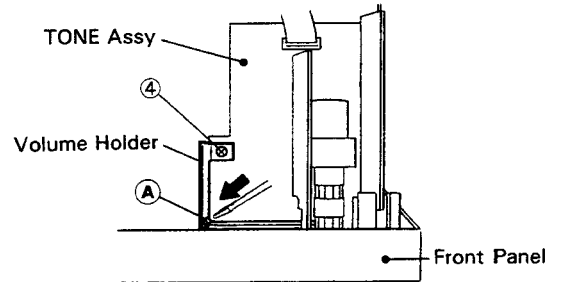


Fig. 5-4

## 6. PCB ASSY DIAGNOSIS

For diagnosis of the standing PCB assemblies of Fig. 5-1, diagnosis can be executed when one of the following PCB assemblies is removed.

PCB Assy to be diagnosed	PCB Assy which may be removed from the CONNECTION Assy	Remarks
AUDIO FUNCTION Assy	<ul style="list-style-type: none"> <li>● VIDEO FUNCTION Assy</li> <li>● S+SR, MR, IR Assy</li> <li>● TUNER Assy</li> </ul>	<ul style="list-style-type: none"> <li>● The AUDIO FUNCTION Assy and the A/V FUNCTION Assy operate as a pair. When either one is removed, no operation is executed.</li> <li>● When the VIDEO FUNCTION Assy and the S+SR, MR, IR Assy are removed from the CONNECTION Assy, the earth (ADG) line is interrupted, so that a separate single wire must be prepared and the earth line must be connected. Connect the 2P, L-type terminal of the VIDEO FUNCTION Assy and part ⑤ of the CONNECTION Assy with a single wire. (Refer to Figs. 6-1 and 6-2)</li> </ul>
A/V FUNCTION Assy		
VIDEO FUNCTION Assy	<ul style="list-style-type: none"> <li>● AUDIO FUNCTION Assy</li> <li>● A/V FUNCTION Assy</li> <li>● TUNER Assy</li> </ul>	<ul style="list-style-type: none"> <li>● The VIDEO FUNCTION Assy and the S+SR, MR, IR Assy operate as a pair. When either one is removed, no operation is executed.</li> <li>● As the earth (GND) for the AUDIO FUNCTION Assy and the A/V FUNCTION Assy is connected by a single wire, please do not disconnect the single wire. Please use an extension wire when the single wire is removed.</li> </ul>
S+SR, MR, IR Assy		
TUNER Assy	All PCB assemblies other than the TUNER Assy	TUNER Assy operates by itself.

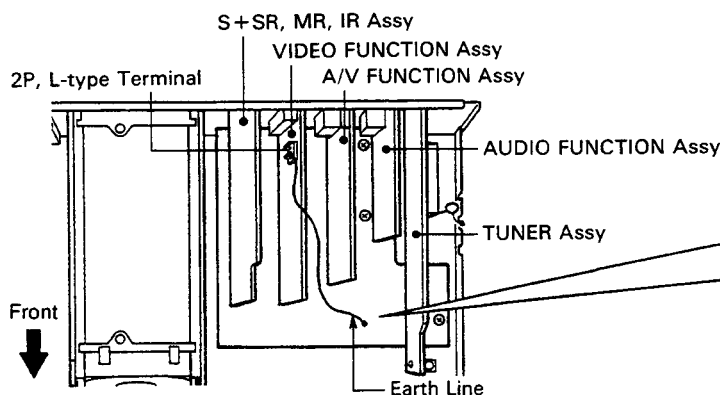


Fig. 6-1

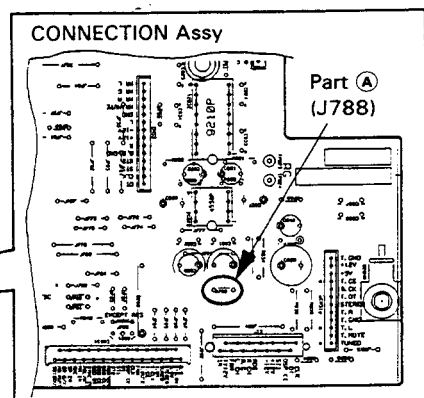


Fig. 6-2

## 7. ADJUSTMENTS

### 7.1 TUNER SECTION

1. Wiring ..... Connect the wires as shown in Fig. 7-1-1 (FM ANT. terminal: 75Ω).
2. Preset ..... Set the VR451 to center position.
3. When the SD model is used, set the band select switch to AM: 10kHz/FM: 100kHz.

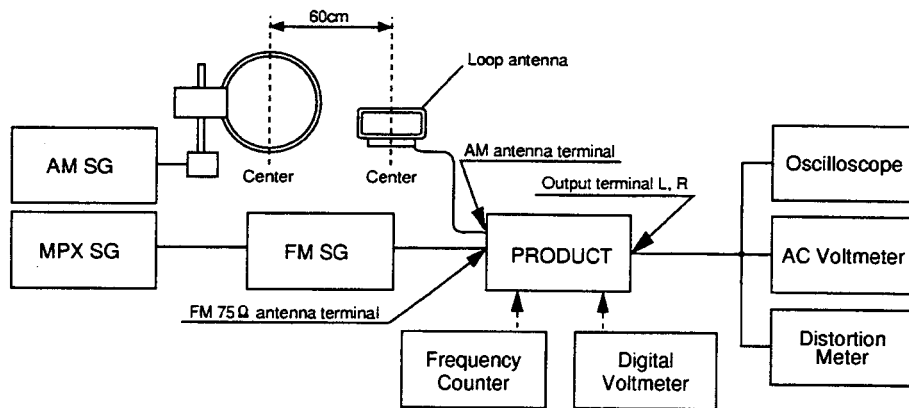


Fig. 7-1-1 AM and FM adjustment wiring diagram

#### FM Section

Note : Stereo modulation ; Main 1kHz L+R ±68.25kHz  
Pilot 19kHz±6.75kHz

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Increasing front end sensitivity	98MHz	—	Weak Input	98MHz	L402, L404, T402	Set the voltage between terminal 43 and GND to maximum, and check that the practical sensitivity is as specified.
2	Center adjustment	98MHz	—	60dBμV	98MHz	L431	Adjust the voltage between terminals 45 and 46 to 0±50mV.
3	Adjusting VCO	—	OFF	60dBμV	—	VR451	Adjust the output of terminal 44 to 76.0kHz±1.0kHz.
4	Adjusting stereo distortion	98MHz	L-ONLY R-ONLY	60dBμV	98MHz	T402	Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification.
5	Checking lighting levels of TUNED and STEREO IND.	98MHz	STEREO	10dBμV (+1dB -2dB)	98MHz	VR432	Adjust TUNED and STEREO IND. to start lighting.

#### AM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Adjusting lighting level of TUNED IND.	1000kHz	—	—	1000kHz	VR431	Adjust the lighting level of TUNED IND. to 55dBμV/m±3dB.



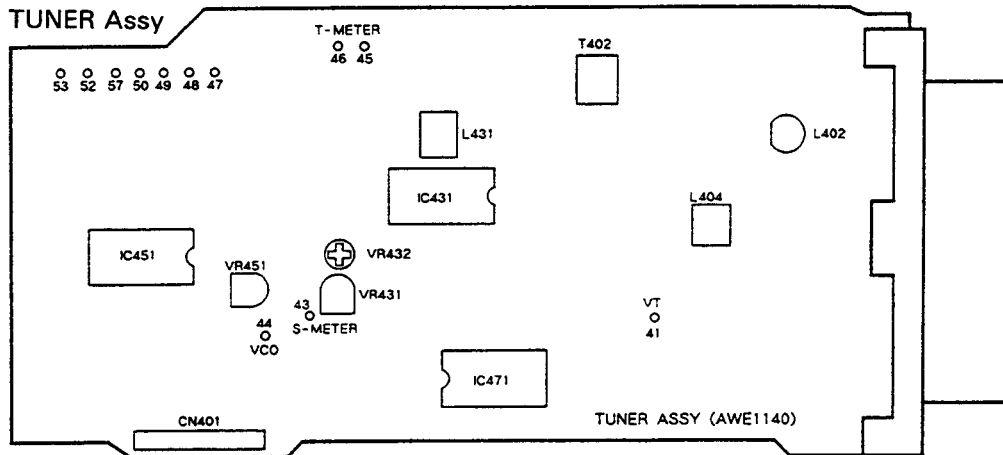


Fig. 7-1-2 Adjustment Points

## 7.2 IDLE CURRENT ADJUSTMENT

1. Connect a DC voltmeter to CN205 and CN204 of the AMP ASSY 200W.  
 L ch: Between pins 1 and 2 and between pins 3 and 4 of CN205  
 R ch: Between pins 1 and 2 and between pins 3 and 4 of CN204
2. Turn VR201 (L ch) and VR202 (R ch) all the way to the left.
3. Switch on the power when the set is completely cold. At the time, bring the SPEAKERS terminals to no-load condition.
4. Wait 5 minutes, and then turn VR201 (L ch) and VR202 (R ch) to the right to set the voltage to 1 mV  $\pm 0.5mV$  each.

*Note: As the temperature rises with the passage of time, adjustment should be executed quickly.*

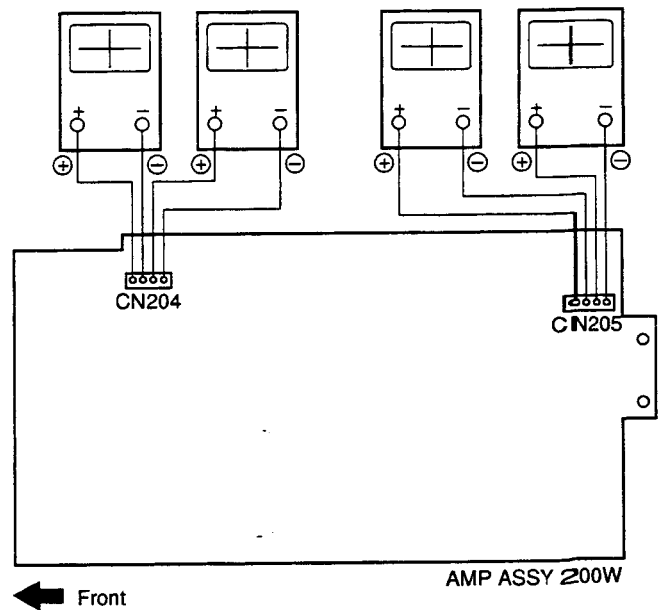


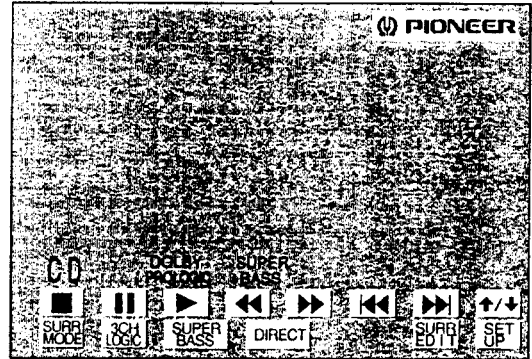


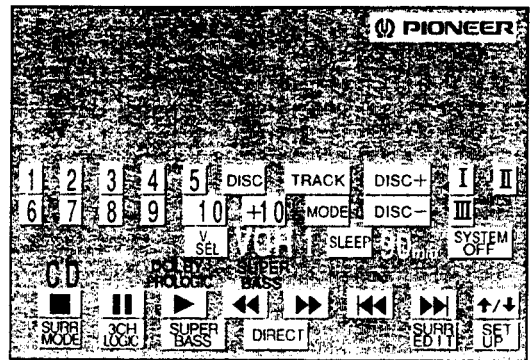
Fig. 7-2-1 Idle Current Adjustment

## 7.3 GUI SCREEN DISPLAY POSITION ADJUSTMENT

1. Connect a monitor TV to the VIDEO OUT terminal.
2. Switch on the power supply.
3. Set the function to CD.
4. Press the GUI MODE key switch to GUI mode (screen 1).
5. Use the MULTI-JOG dial to move the  mark (cursor) on the screen to the  key on the screen.
6. Press the GUI ENTER key. (The condition of the screen 2 will be reached.)
7. While screen 2 is being displayed (it goes out after about 10 to 15 sec.), adjust with TC501 of the VIDEO FUNCTION ASSY so that the margin on the screen becomes the same on the left and the right.



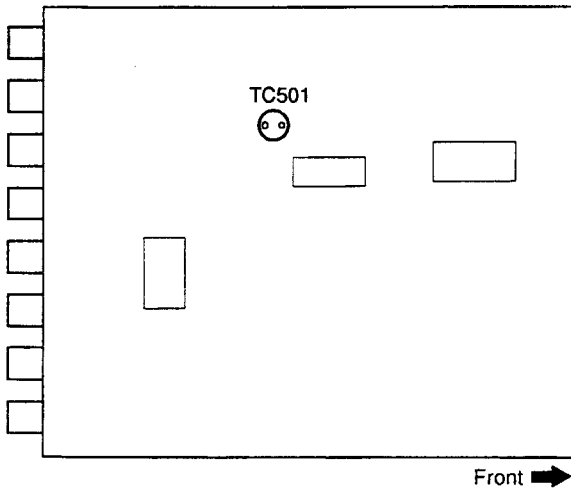
Screen 1



Adjust for the same margin at the left and the right.

Screen 2

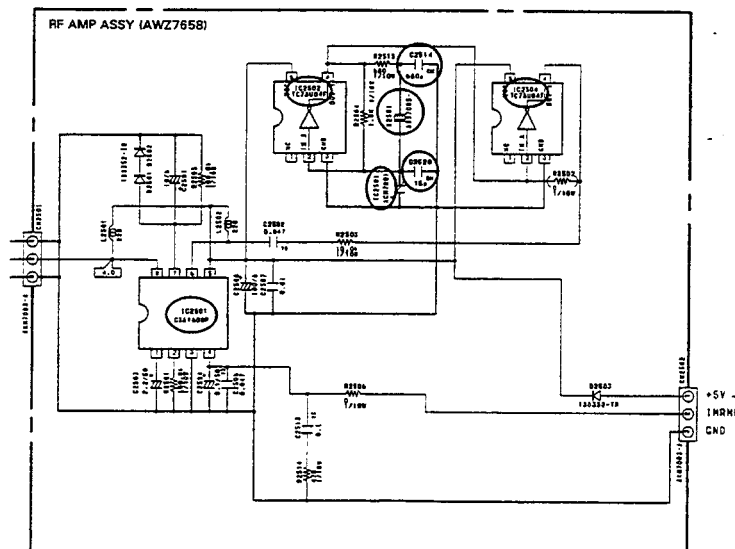
Note: When the GUI screen goes out, it can be displayed again by turning the MULTI-JOG dial.



VIDEO FUNCTION ASSY

## 7.4 REGARD TO PARTIAL EXCHANGE OF THE RF AMP ASSY

For exchange of the part marked by ○ in Fig. 1, exchange together with the PCB assy.

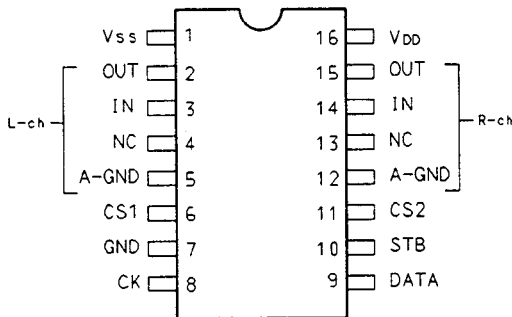


## 8. IC INFORMATION

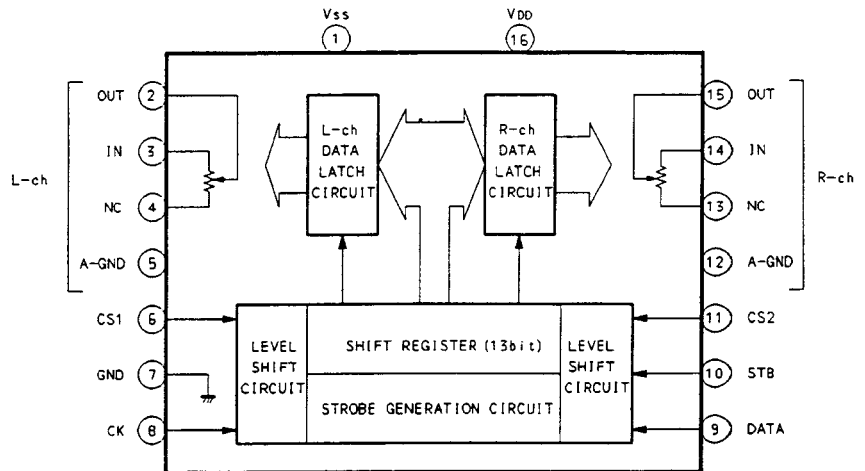
- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

### TC9210P (IC621: CONNECTION ASSY) (VSX-79 ONLY)

- Electronic Volume IC
- Pin Assignment (Top View)



### Block Diagram



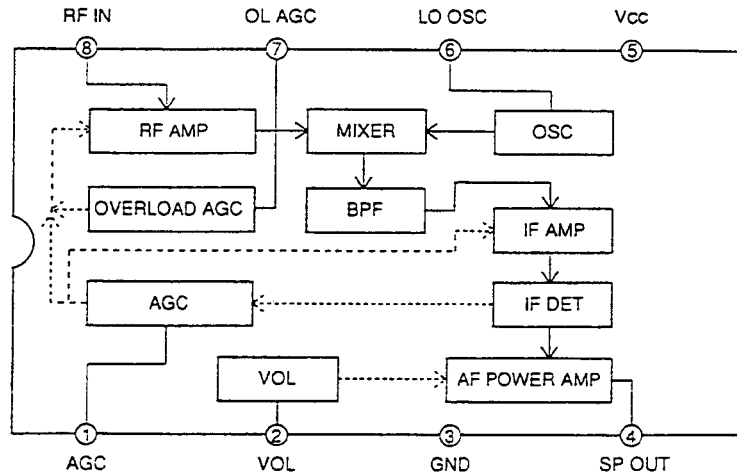
### Pin Function

No.	Symbol	Pin Name	Description
1	Vss	Power supply (-)	2 Used power supply $V_{DD} = 6.0$ to $-17V$ $GND = 0V$ $V_{ss} = -6.0$ to $-17V$ 1 Used power supply $V_{DD} = 6.0$ to $18V$ $GND = V_{ss} = 0V$
7	GND	Digital GND	
16	VDD	Power supply (+)	
2	L-OUT	Volume output	_____
3	L-IN	Volume input	_____
4	NC	NO CONNECTION	_____
5	L-A-GND	Analog GND	_____
6	CS1	Chip select input	The chip selection code is switched, and up to four units can be used at the same time.
8	CK	Clock input	Data transfer clock input
9	DATA	Data input	Serial data input for volume setting
10	STB	Strobe input	Strobe input for data writing
11	CS2	Chip select input	The chip selection code is switched, and up to four units can be used at the same time.
12	R-A-GND	Analog GND	_____
13	NC	NO CONNECTION	_____
14	R-IN	Volume input	_____
15	R-OUT	Volume output	_____

## ■ CXA1600P (IC2501: RF AMP ASSY)

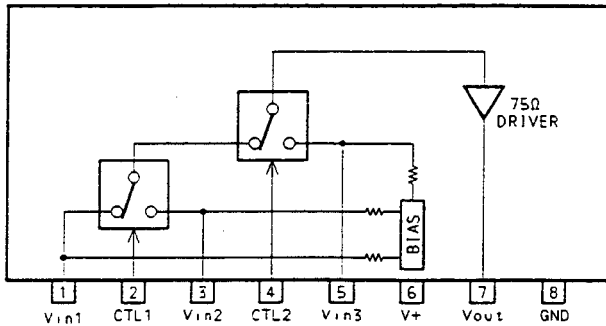
CXA1600P is a 1-chip AM radio combining a power amplifier and an electronic volume adjustment in an 8-pin package, and it includes all functions from the front end to the power amplifier.

- 8-pin, 1-Chip Radio
- Block Diagram



## ■ NJM2243L [IC508, IC509 (VSX-79 ONLY): VIDEO FUNCTION ASSY]

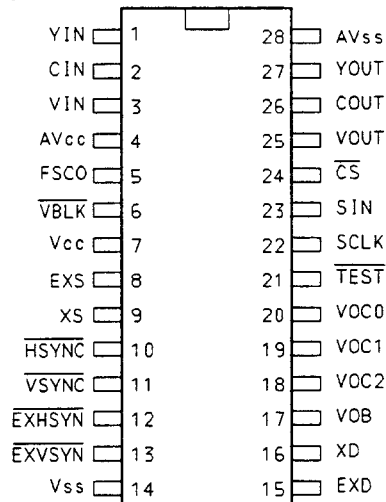
- Video Switch
- Block Diagram



NJM2243L		INPUT CONTROL-OUTPUT SIGNAL
CTL1	CTL2	OUTPUT SIGNAL
L	L	Vin1
H	L	Vin2
L/H	H	Vin3

## ■ PD6157A (IC506: VIDEO FUNCTION ASSY)

- ON-Screen Display Controller
- Block Diagram



# 9. FL INFORMATION

■ AAV1196 (V701)

## PIN LOCATION

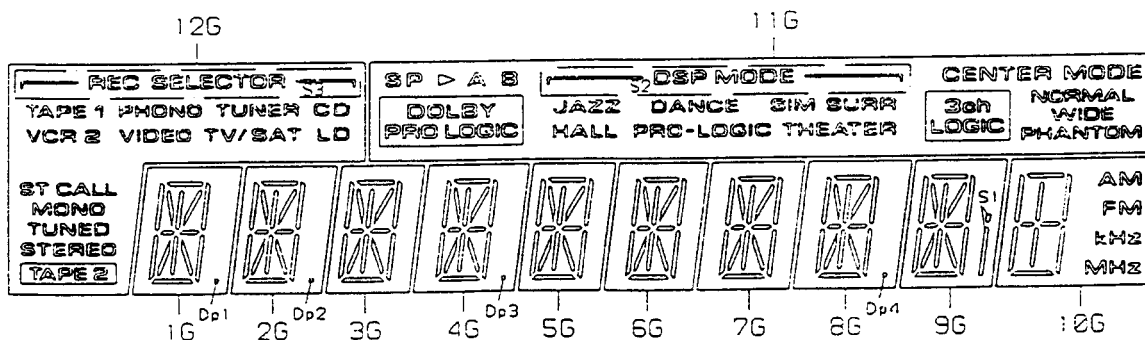


## PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4					
CONNECTION	F	F	N	N	1	2	3	4	5	6	7	8	9	0	1	2	N	N	N	N	N	N	N	N	N	N	N	1	1	1	1	1	P	P	P	P	P	P	N	N	F	F		
	1	1	P	P	G	G	G	G	G	G	G	G	G	G	X	X	X	X	X	X	X	X	X	X	X	X	5	4	3	2	0	9	8	7	6	5	4	3	2	1	P	P	2	2

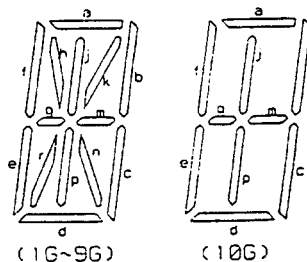
- NOTE 1) F1, F2 --- Filament  
 2) NP --- No pin  
 3) NX --- No extend pin  
 4) DL --- Datum Line  
 5) 1G~12G --- Grid

## GRID ASSIGNMENT



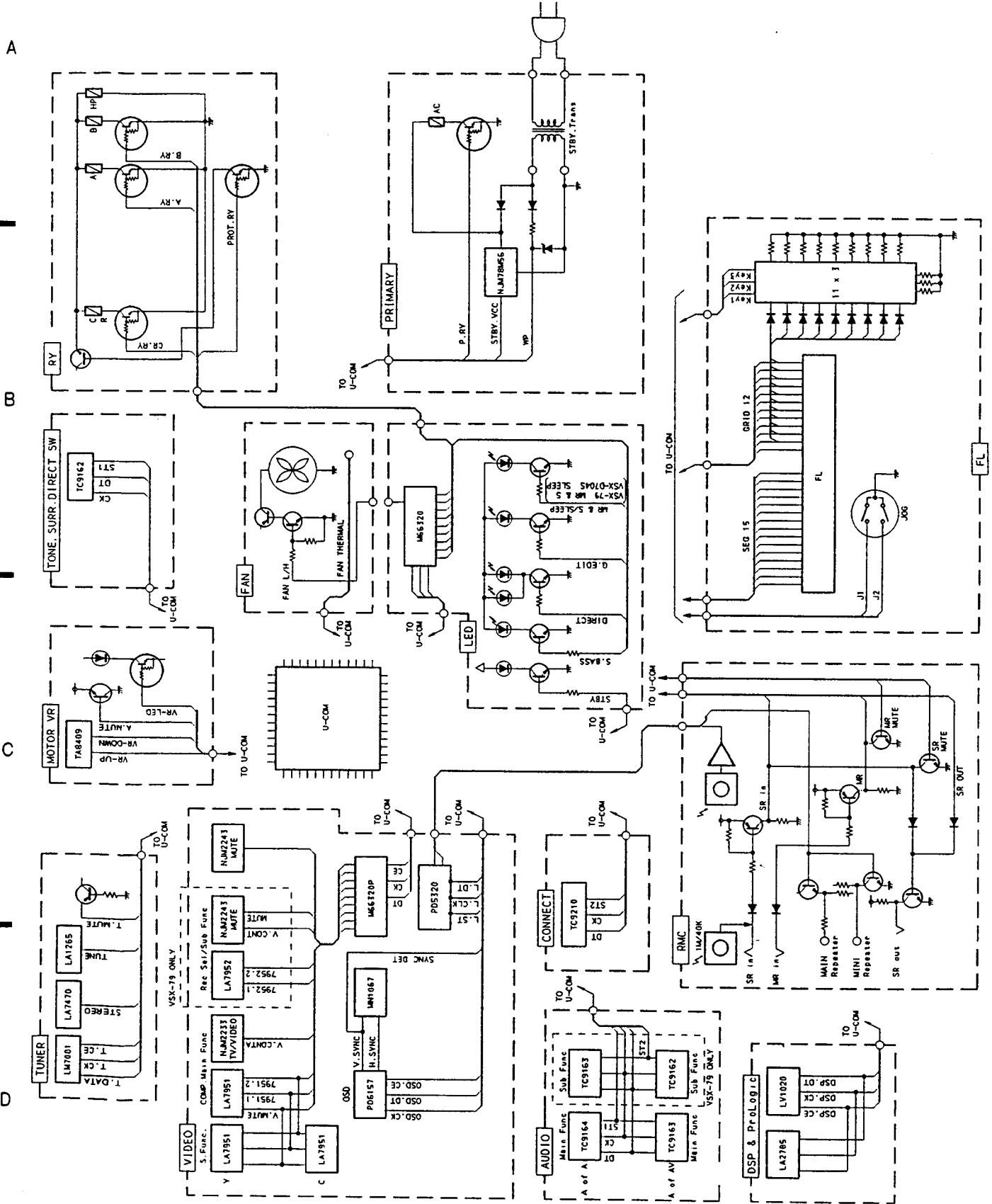
## ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P 1	a	a	a	a	a	a	a	a	a	a	PHANTOM	ST CALL
P 2	j	j	j	j	j	j	j	j	j	j	DOLBY PRO LOGIC	MONO
P 3	k	k	k	k	k	k	k	k	k	k	AM	WIDE
P 4	h	h	h	h	h	h	h	h	h	h	FM	NORMAL
P 5	b	b	b	b	b	b	b	b	b	b	3oh LOGIC	VIDEO
P 6	f	f	f	f	f	f	f	f	f	f	CENTER MODE	VCR 2
P 7	g	g	g	g	g	g	g	g	g	g	PRO-LOGIC THEATER	-
P 8	m	m	m	m	m	m	m	m	m	m	HALL	CD
P 9	c	c	c	c	c	c	c	c	c	c	SIM SURR	TUNER
P 10	e	e	e	e	e	e	e	e	e	e	DANCE	PHONO
P 11	n	n	n	n	n	n	n	n	n	n	kHz	JAZZ
P 12	r	r	r	r	r	r	r	r	r	r	MHz	SP >
P 13	p	p	p	p	p	p	p	p	p	p	A	STEREO
P 14	d	d	d	d	d	d	d	d	d	d	B	TAPE 2
P 15	Dp1	Dp2	-	Dp3	-	-	-	Dp4	S1	-	S2	S3



# 10. BLOCK DIAGRAM

## 10.1 MICROCOMPUTER SECTION



A

B

C

D

A

B

C

D

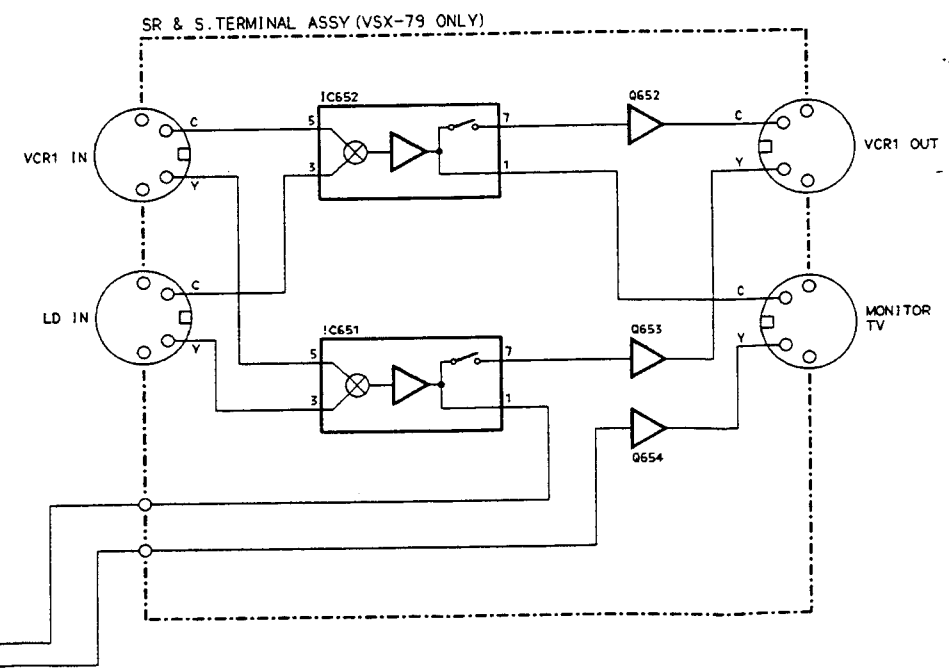
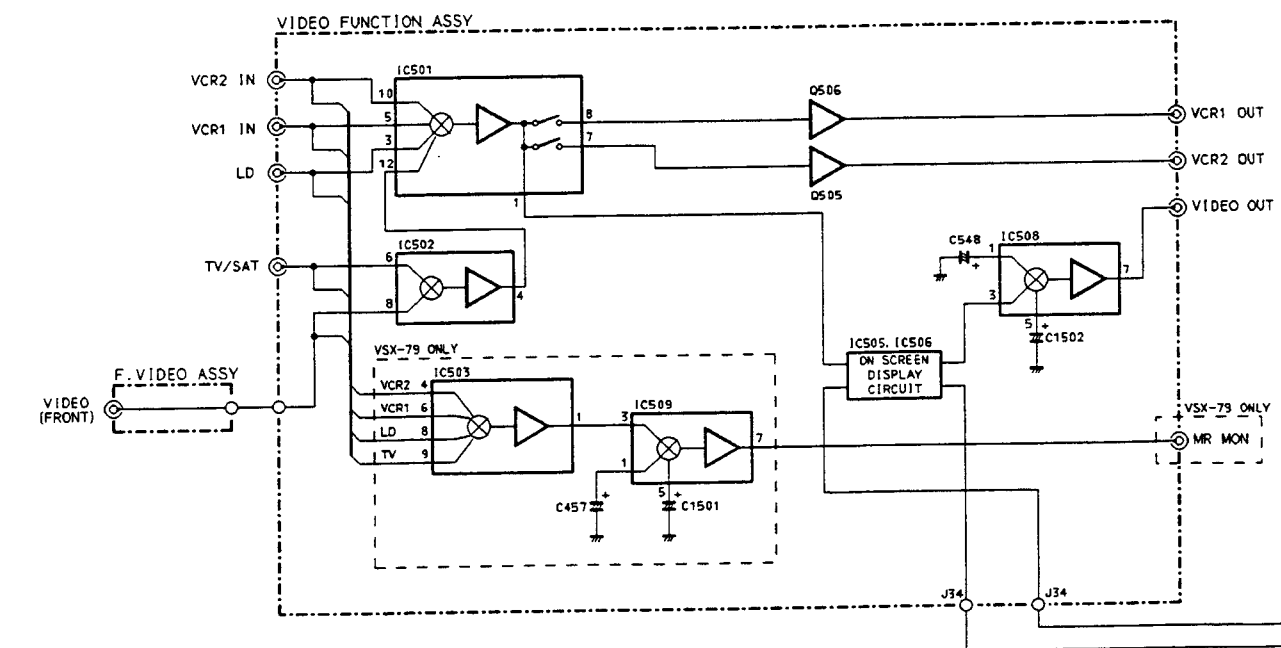
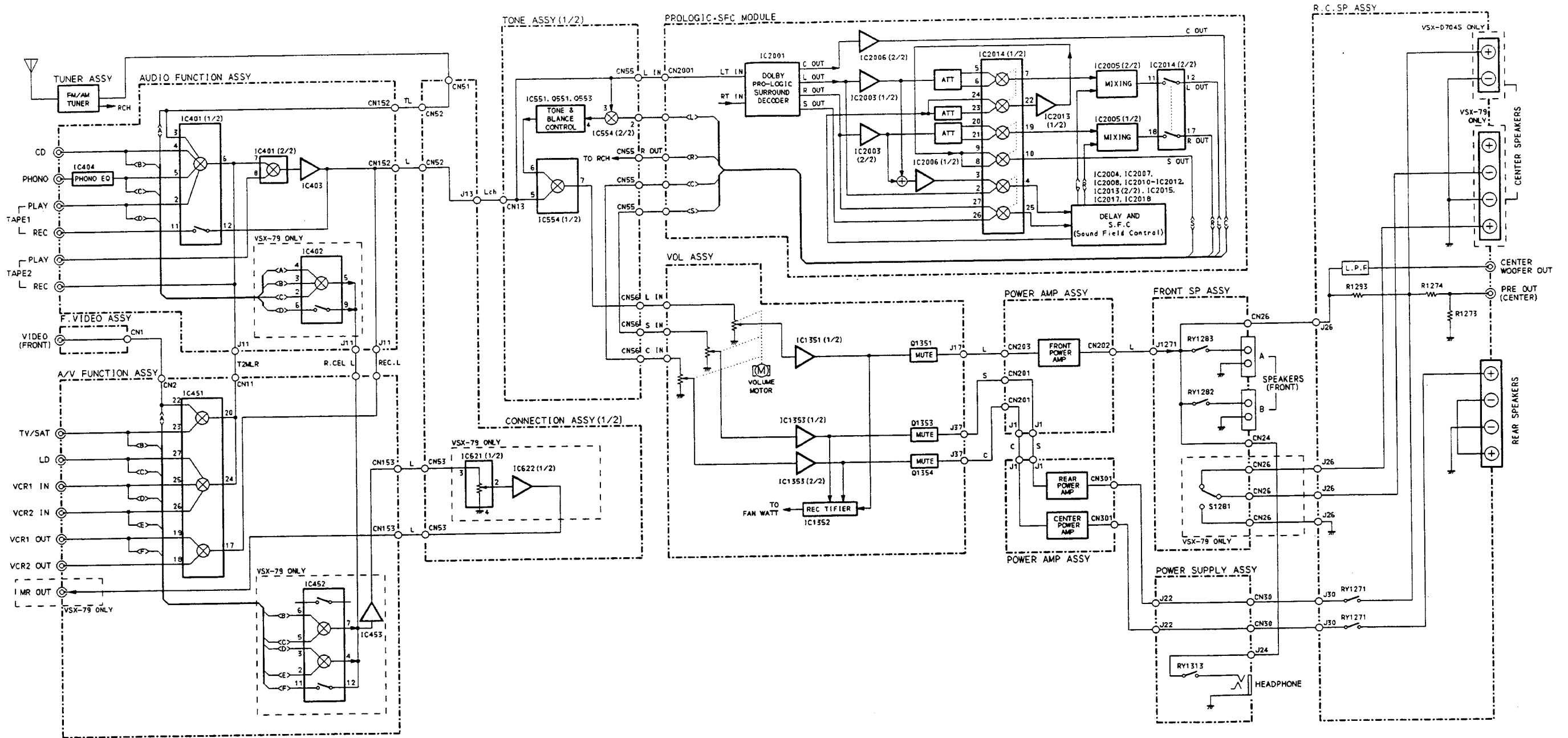
10.2 AUDIO AND VIDEO SECTION

A

B

C

D



A

B

C

D

### 11. FOR VSX-D704S/KC, SD AND VSX-79/KU/CA

**NOTES :**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  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.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- 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%).

560Ω → 56 × 10<sup>1</sup> → 561 ..... RD1/8PM  $\begin{matrix} 5 \\ 6 \\ 1 \end{matrix}$  J

47kΩ → 47 × 10<sup>3</sup> → 473 ..... RD1/4PS  $\begin{matrix} 4 \\ 7 \\ 3 \end{matrix}$  J

0.5Ω → 0R5 ..... RN2H  $\begin{matrix} 0 \\ R \\ 5 \end{matrix}$  K

1Ω → 010 ..... RS1P  $\begin{matrix} 0 \\ 1 \\ 0 \end{matrix}$  K

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

5.62kΩ → 562 × 10<sup>1</sup> → 5621 ..... RM1/4PC  $\begin{matrix} 5 \\ 6 \\ 2 \\ 1 \end{matrix}$  F

### ■ CONTRAST OF MISCELLANEOUS PARTS

VSX-D704S/KC, SD, VSX-79/KU/CA and VSX-D704S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX-D704S/ KU	VSX-D704S/ KC	VSX-D704S/ SD	VSX-79/ KU/CA	
NSP NSP	BIC SIGNAL assy	AWK7136	AWK7136	AWK7137	AWK7138	
	REG. assy	AWZ7617	AWZ7617	AWZ7617	AWZ7618	
	PRIM assy	AWZ7620	AWZ7620	AWZ7621	AWZ7620	
	FRONT SP. assy	AWZ7623	AWZ7623	AWZ7623	AWZ7624	
	R.C SP. assy	AWZ7626	AWZ7626	AWZ7626	AWZ7627	
	CONNECTION assy	AWZ7630	AWZ7630	AWZ7630	AWZ7631	
	SMALL SIGNAL assy	AWK7143	AWK7143	AWK7143	AWK7144	
	AUDIO FUNCTION assy	AWZ7634	AWZ7634	AWZ7634	AWZ7635	
	A/V FUNCTION assy	AWZ7636	AWZ7636	AWZ7636	AWZ7637	
	VIDEO FUNCTION assy	AWZ7638	AWZ7638	AWZ7638	AWZ7639	
S+SR, MR, IR assy	AWZ7645	AWZ7645	AWZ7645	AWZ7646		
FRONT assy	AWK7148	AWK7148	AWK7148	AWK7149		
FL UCOM assy	AWZ7649	AWZ7649	AWZ7649	AWZ7650		
$\Delta$	S1 Voltage selector	Not used	Not used	AKX-507	Not used	*
$\Delta$	S2 Voltage selector	Not used	Not used	AKX1004	Not used	*
$\Delta$	S3 Slide switch (for channel step)	Not used	Not used	ASH1044	Not used	*
$\Delta$	S4 Slide switch (PAL ↔ NTSC)	Not used	Not used	ASH1044	Not used	*
$\Delta$	T1 Power transformer (AC120V)	ATS7058	ATS7058	Not used	ATS7058	
$\Delta$	T1 Power transformer (AC110V/120-127V/220V/240V)	Not used	Not used	ATS7059	Not used	
$\Delta$	C1 Capacitor (0.1μF/250V)	Not used	Not used	ACE-507	Not used	*
$\Delta$	C2, C3 Capacitor	Not used	Not used	CKDYX103M25	Not used	*
$\Delta$	C4 Capacitor	Not used	Not used	CEAS100M50	Not used	*
$\Delta$	FU1 Fuse (10A/125V)	AEK1035	AEK1035	Not used	AEK1035	
$\Delta$	FU1, FU2 Fuse (5A/125V)	Not used	Not used	AEK-126	Not used	
$\Delta$	Fuse holder	Not used	Not used	AKR1005	Not used	
$\Delta$	AC power cord	ADG1146	ADG1146	ADG1051	ADG1146	
$\Delta$	Strain relief	AEP-113	AEP-113	AEC-882	AEP-113	
$\Delta$	Rear panel	ANC7194	ANC7194	ANC7195	ANC7196	
$\Delta$	Display panel	AAK7147	AAK7147	AAK7147	AAK7148	

Note \*: Refer to pages 5-7.

Mark	Symbol & Description	Part No.				Remarks
		VSX-D704S/ KU	VSX-D704S/ KC	VSX-D704S/ SD	VSX-79/ KU/CA	
NSP NSP	Center panel	AAK7152	AAK7152	AAK7152	AAK7151	
	Front panel	AMB7209	AMB7209	AMB7209	AMB7210	
	Fuse holder bracket	Not used	Not used	ANG-528	Not used	*
	Barrier (PVC)	Not used	Not used	AEC1412	Not used	*
	65 label	ORW1069	Not used	Not used	ORW1069	
	Screw (for slide switch)	Not used	Not used	VMZ26P040FZK	Not used	*
	Packing case	AHD7138	AHD7138	AHD7139	AHD7140	
	Operating instructions (English)	ARB7035	ARB7035	ARB7035	ARB7036	
	Operating instructions (French)	Not used	ARC7058	Not used	Not used	
	Operating instructions (Chinese/Spanish)	Not used	Not used	ARC7059	Not used	

Note \*: Refer to pages 5-7.

### ■ CONTRAST OF PCB ASSEMBLIES

#### REG. Assy

AWZ7618 and AWZ7617 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7617	AWZ7618	
	R1254, R1255, R1280	RS2LMF180J	Not used	
	R1256	RD1/4PMF122J	RD1/4PMF751J	
	R1264	Not used	RT5PZ680K	*
	R1299	Not used	RT5PD100K	*

Note \*: Refer to SCH-8.

#### A/V FUNCTION Assy

AWZ7637 and AWZ7636 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7636	AWZ7637	
	IC452	Not used	TC9162AN	*
	IC453	Not used	XRA4558N-P	*
	Q451	Not used	XDA124ES	*
	Q452, Q453	Not used	2SC2878	*
	C477, C478	Not used	CKSQYB103K50	*
	C479, C480	Not used	CEAS2R2M50	*
	C485, C486	Not used	CEAS4R7M50	*
	C488	Not used	CCSQCH102J50	*
	C492, C493	Not used	CCSQCH101J50	*
	R471, R486-R488	Not used	RS1/10S102J	*
R472, R473, R481, R482	Not used	RS1/10S222J	*	
R475-R478	Not used	RS1/10S104J	*	
R479, R480	Not used	RS1/10S224J	*	
2P Pin jack	Not used	AKB7019	*	
CN153	KP200IB10L	Not used		
CN153	Not used	KP200IB14L	*	

Note \*: Refer to SCH-2.



**PRIM Assy**

AWZ7621 and AWZ7620 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7620	AWZ7621	
NSP	T51 R52 KN51	ATT7006 ACN-208 ANK-142	ATT7007 Not used Not used	

**FRONT SP. Assy**

AWZ7624 and AWZ7623 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7623	AWZ7624	
	S1281	Not used	AKX1033	*
	CN26 Connector (4P)	KPC4	Not used	
	CN26 Connector (7P)	Not used	KPC7	*
	CN8004 Speaker terminal 8-P	AKE1048	AKE1036	

Note \*: Refer to SCH-5.

**VIDEO FUNCTION Assy**

AWZ7639 and AWZ7638 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7638	AWZ7639	
	IC503	Not used	LA7952	*
	IC509	Not used	NJM2243L	*
	IC511	Not used	TC7S32F	*
	Q502	Not used	2SC2458	*
	Q503	Not used	2SA1115	*
	D504	Not used	HSS104-02	*
	L503, L505, L509	Not used	LAU680J	*
	C507-C511, C543, C547, C1501	Not used	CEAS470M25	*
	C512, C545	Not used	CKSQYF103Z50	*
	C524	Not used	CCSQCH561J50	*
	C535, C1513	Not used	CEAS100M50	*
	C538	Not used	CEAS010M50	*
	C549	Not used	CEANP470M25	*
	C1509	Not used	CEAS471M10	*
	R510, R511, R535, R1503	Not used	RS1/10S102J	*
	R529	Not used	RS1/10S681J	*
	R530	Not used	RS1/10S222J	*
	R531, R1504	Not used	RS1/10S104J	*
	R533	Not used	RS1/10S391J	*
	R542	Not used	RS1/10S103J	*
	R546	Not used	RS1/10S750J	*
	R1506	Not used	RS1/10S472J	*
	1P Pin jack	Not used	AKB7020	*
	CN154	KP200IB11L	Not used	
	CN154	Not used	KP200IB15L	*

Note \*: Refer to SCH-4.

**CONNECTION Assy**

AWZ7631 and AWZ7630 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7630	AWZ7631	
	IC621	Not used	TC9210P	*
	IC622	Not used	XRA4558	*
	D621, D622	Not used	HSS104-02	*
	C621, C622, C627, C628	Not used	CEAS100M50	*
	C629, C630	Not used	CEAS470M25	*
	C631, C632	Not used	CKCYF103Z50	*
	C633, C634	Not used	CKCYF473Z50	*
	C635, C636	Not used	CKCYB102K50	*
	R625, R626, R631, R632	Not used	RD1/8PM104J	*
	R633, R634	Not used	RD1/2PM221J	*
	R635-R637	Not used	RD1/8PM102J	*
	CN53 10P Plug	KM200IB10	Not used	
	CN53 14P Plug	Not used	KM200IB14	
	CN54 11P Plug	KM200IB11	Not used	
	CN54 15P Plug	Not used	KM200IB15	
	CN56 8P Plug	KM200IB8	Not used	
	CN56 16P Plug	Not used	KM200IB16	

Note \*: Refer to SCH-5.

**R.C SP. Assy**

AWZ7627 and AWZ7626 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7626	AWZ7627	
	Cable holder (4P)	AKT1077	Not used	
	Cable holder (7P)	Not used	AKT1080	*
	CN8016 Speaker terminal 2-P	AKE1041	Not used	
	CN8016 Speaker terminal 4-P	Not used	AKE1055	

Note \*: Refer to SCH-5.

**AUDIO FUNCTION Assy**

AWZ7635 and AWZ7634 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7634	AWZ7635	
	IC402	Not used	TC9163AN	*
	C437, C438	Not used	CKSQYF103Z50	*
	C448	Not used	CCSQCH102J50	*
	R444	Not used	RS1/10S102J	*
	6P Pin jack	AKB7013	Not used	
	4P Pin jack	Not used	AKB7014	*
	2P Pin jack	Not used	AKB7019	*

Note \*: Refer to SCH-2.

**FL UCOM Assy**

AWZ7650 and AWZ7649 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ7649	AWZ7650	
D732		Not used	HSS104-02	*

Note \*: Refer to SCH-11.

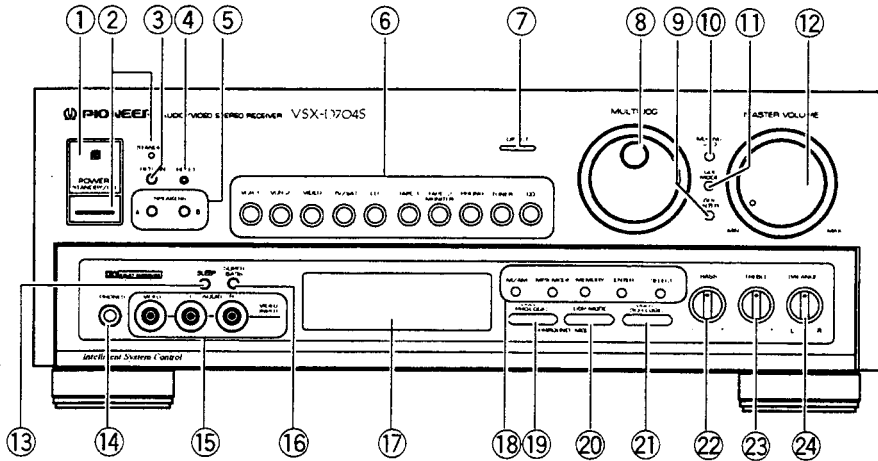
**PCB PARTS LIST**

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
<b>S+SR, MR, IR ASSY (AWZ7646)</b>			<b>OTHERS</b>				
<b>SEMICONDUCTORS</b>							
	IC651, IC652		LA7951		CN1001	JACK	AKN-209
	IC658		LH5268AN1TLL			JACK	AKN1020
	IC657		PD5320A		CN1002	JACK	AKN1028
	IC656		TC74HC123AF		CN1005, CN1006	SOCKET	AKP1064
	Q656, Q657, Q660		2SA1048		X651	CERAMIC RESONATOR	ASS1025
	Q652-Q654		2SA1115			JACK	BKN1005
	Q655, Q659, Q662, Q663		2SC2458		CN156	16P SOCKET	KP200IB16L
	Q665		2SC3732		CN159	9P SOCKET	KP200IB9L
	Q661, Q664		XDC124ES				
	D666		1SS252				
	D651-D653, D655-D658		HSS104-02				
	D660-D665		HSS104-02				
	D659		RD3.0ESB1				
	D654		RD5.1ESB				
<b>COILS AND FILTERS</b>							
	L659		LAU220K				
	L653, L654, L656-L658		LAU820J				
<b>CAPACITORS</b>							
	C692		ACH1246				
	C681-C683		CCSQCH050C50				
	C684, C686		CEAS010M50				
	C655, C656, C665, C671		CEAS100M50				
	C690		CEAS101M10				
	C668, C669		CEAS101M25				
	C1651, C663, C677-C679, C693		CEAS470M25				
	C685, C687		CEAS471M10				
	C688, C689, C696, C697		CKSQYB102K50				
	C698		CEAS1R5M50				
	C1656		CKSQYB822K50				
	C666, C667, C673-C675, C691		CKSQYF103Z50				
	C659, C660, C664, C670		CKSQYF104Z50				
	C694, C695		CKSQYF473Z50				
<b>RESISTORS</b>							
	R674		RD1/2PM221J				
	R672, R673		RD1/2PM331J				
	R657		RD1/8PM102J				
	Other Resistors		RS1/10S□□□□				

## 12. PANEL FACILITIES

Illustration shows multi-voltage model.

VSX-D704S



**① Remote sensor**

**② POWER STANDBY/ON switch,**

**STANDBY indicator (Multi-voltage model only)**

This is the switch for electric power.

**ON** : When set to the ON position, power is supplied and the unit becomes operational.

**STANDBY**: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

**(Multi-voltage model only)**

The STANDBY indicator lights when the power is set to STANDBY, and goes out when set to ON.

**(Timer ON/OFF possible)**

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

**NOTE:**

When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

**③ RETURN button**

Press this button to return the receiver to its initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

TAPE 2 MONITOR .... OFF    MUTING ..... OFF  
 SFC MODE ..... OFF    FUNCTION ..... TUNER  
 SUPER BASS ..... OFF

And SPEAKERS buttons switch as follows.

Before pressing the RETURN button	After pressing
Both A and B are off	→ Only A is on
Only A is on	→ No change
Only B is on	→ Both A and B are on
Both A and B are on	→ No change

**④ RESET button**

Use this when normal operation is not possible because of external influences such as static electricity or lightning, or when operations are not functioning even when operation buttons are pressed. Press this button to return to normal operating conditions.

(The input selector automatically switches to TUNER, and SPEAKERS button A is the only one ON.

Also, the tuner station memory, surround settings, and remote control REMOTE SET UP settings are all returned to their initial defaults.)

If you press this button when the power is ON, the unit switches to POWER STANDBY.

**⑤ SPEAKERS buttons (A,B)**

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

**⑥ Input selector buttons**

**VCR 1** : Press when performing playback on a first VCR unit.

**VCR 2** : Press when performing playback on a second VCR unit.

**VIDEO** : Press when performing playback on a TV camera or VCR connected to VIDEO INPUT jack on the front panel.

**TV/SAT** : Press to watch TV broadcasts from the TV tuner connected to the rear panel TV/SAT IN jacks.

**LD** : Press when performing playback on an LD player.

**TAPE 1** : Press when performing playback on an a cassette deck.

**TAPE 2 MONITOR**

: Press when performing playback on a second cassette deck and when monitoring recording.

**PHONO** : Press when playing records on a turntable.

**TUNER** : Press when listening to radio broadcasts.

**CD** : Press when playing compact discs on a CD player.

**NOTE:**

Press the RETURN button, and the frequency last selected is received. If reception of the frequency last selected is not possible, the mode automatically switches to AUTO TUNING.

**⑦ DIRECT button\***

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry. The surround mode, super bass, and rear and center speakers are automatically switched off.

**⑧ MULTI-JOG**

Use during tuner operation to select frequencies and station numbers. During GUI operation, use to move the on-screen cursor.

**⑨ GUI ENTER button (GUI operation)**

Press to execute an operation selected with the MULTI-JOG.

**⑩ MUTING button**

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

**⑪ GUI MODE button**

Switches GUI MODE on and off.

**⑫ MASTER VOLUME control**

Use it to simultaneously adjust the sound volume from the front, center, and rear speakers.

**⑬ SLEEP button**

Activates the SLEEP timer. The length changes in the following manner each time the button is pressed:



Unit: minutes

**⑭ PHONES jack**

Connect the plug on your headphones to this jack. Set SPEAKERS A and B switches to OFF if you want to cut the sound from the speakers and listen to it only through the headphones.

**⑮ VIDEO INPUT jacks**

VIDEO components such as a VCR or TV camera, etc. can be connected.

**⑯ SUPER BASS button\***

Press this button when you want to boost the bass.

**⑰ Display section**

**⑱ TUNING MODE buttons**

**FM/AM button:**

Use this to switch between FM and AM frequency band reception.

**MPX MODE button:**

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the MONO indicator in the display section is lit.

**Auto stereo mode**

Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

**Monaural mode**

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

**NOTE:**

*This button has no effect on reception of AM broadcasts.*

**MEMORY button:**

Press this button to switch to the frequency preset mode. (When GUI is ON, it does not operate.)

**ENTER button:**

Press this button when you are in the frequency preset mode, and the displayed frequency is memorized in the selected station. (Station indications stop flashing and stay lit.) (When GUI is ON, it does not operate.)

**SELECT button:**

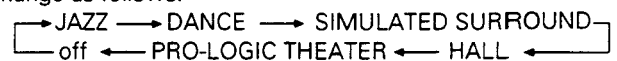
Press this button to switch to the station mode. Then you can turn the multi-jog to select a station. (When GUI is ON, it does not operate.)

**⑲ DOLBY PRO-LOGIC button\***

Switches DOLBY PRO-LOGIC SURROUND on and off.

**⑳ DSP MODE button\***

Each time you press it, the mode and the display indications change as follows.



**㉑ DOLBY 3CH LOGIC button\***

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the **DD DOLBY SURROUND** mark.

**㉒ BASS control**

Use to adjust the low-frequency level. Turn clockwise to boost bass, and counterclockwise to attenuate bass.

**㉓ TREBLE control**

Use to adjust the high-frequency level. Turn clockwise to boost treble, and counterclockwise to attenuate treble.

**㉔ BALANCE control**

Use to adjust the sound volume balance between left and right speakers.

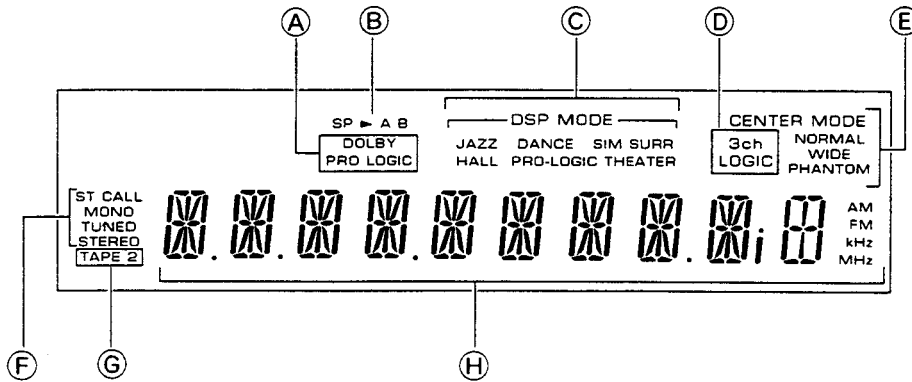
**L:** Decreases the sound on the right side.

**R:** Decreases the sound on the left side.

Usually, left and right volume levels should be the same.

\*Setting is memorized separately for each input selector button.

## DISPLAY SECTION



### (A) DOLBY PRO-LOGIC indicator

### (B) SP (SPEAKERS) A,B indicators

Shows which speaker system (or systems) are switched on.

### (C) DSP MODE indicators

### (D) DOLBY 3CH LOGIC indicator

### (E) CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO-LOGIC SURROUND, PRO-LOGIC THEATER and DOLBY 3CH LOGIC operation

### (F) Tuning indicators

#### ST (STATION) CALL

: Press the SELECT button to switch to the station mode, and this indicator lights.

#### MONO

: Lights up when the FM MONO mode is selected with the MPX MODE button.

#### TUNED

: Lights up when a station is tuned.

#### STEREO

: Lights up when a stereo FM broadcast is being received.

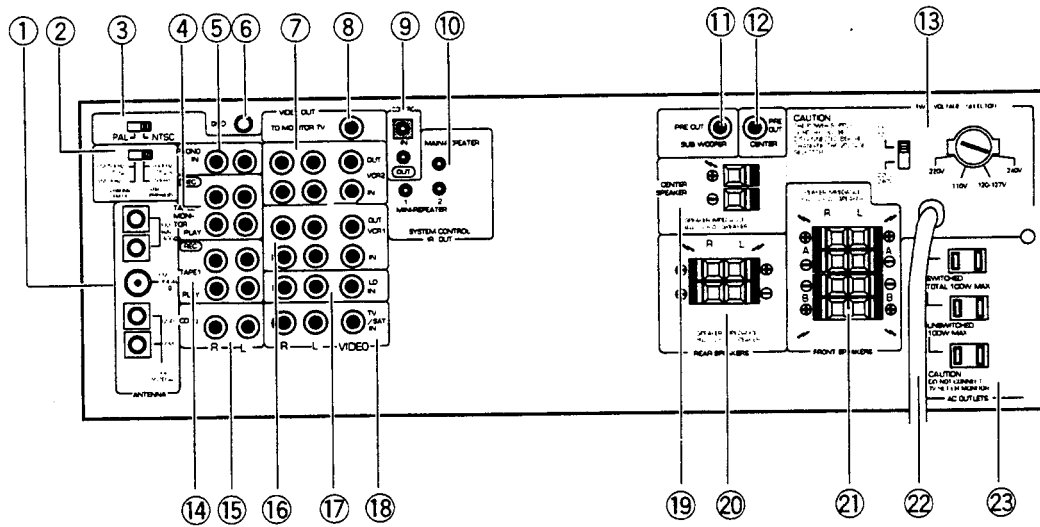
### (G) TAPE 2 indicator

Lights up when the input selector is set to TAPE 2 MONITOR ON.

### (H) CHARACTER display

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

Illustration shows Multi-voltage model.



### ① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

### ② CHANNEL STEP switch (Multi-voltage model only)

### ③ PAL/NTSC switch (Multi-voltage model only)

Switch to match the color system of the TV set you are using.

### ④ TAPE 2 MONITOR jacks

Connect to audio components such as a second cassette deck or a graphic equalizer.

### ⑤ PHONO input jacks

Connect to the output cables from a turntable.

### ⑥ GND terminal

Connect the turntable ground lead to this terminal.

### ⑦ VCR 2 jacks

#### [VIDEO OUT]

Connect to the VCR 2 VIDEO INPUT jack.

#### [AUDIO OUT (L, R)]

Connect to the VCR 2 AUDIO INPUT jacks.

#### [VIDEO IN]

Connect to the VCR 2 VIDEO OUTPUT jack.

#### [AUDIO IN (L, R)]

Connect to the VCR 2 AUDIO OUTPUT jacks.

### ⑧ VIDEO OUT (TO MONITOR TV) jack

Connect to a monitor TV or to TV sets with video input terminals to watch program materials from a VCR or LD player connected to this unit.

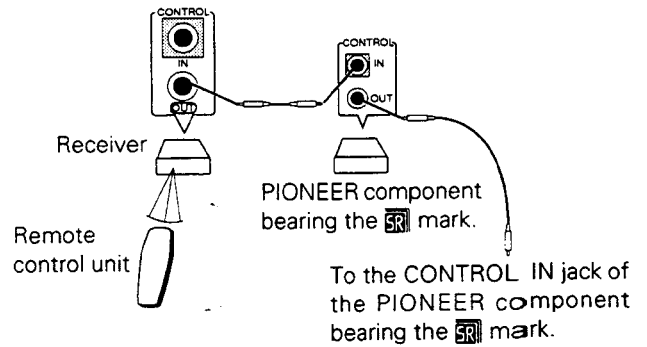
### ⑨ CONTROL IN/OUT jacks

**IN** :Connect this jack to other Pioneer components when using those components to control this unit.

**OUT** :Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

#### NOTE :

- If there is a plug in this unit's CONTROL IN jack, GUI operation is not possible.
- The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected. In this case, connect a component featuring intelligent system control to the IN jack.



### ⑩ SYSTEM CONTROL IR OUT jacks

To operate other components with this unit's remote control or with GUI, connect the supplied repeater.

#### MINI-REPEATER 1, 2

:Connect the supplied Mini-Repeater.

#### MAIN-REPEATER

:Connect the supplied Main-Repeater.

## ⑪ SUB WOOFER PRE OUT jack

If you want to boost the low frequencies, connect to a subwoofer power amplifier.

## ⑫ CENTER PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

## ⑬ TWO VOLTAGE SELECTORS switches (Multi-voltage model only)

## ⑭ TAPE 1 jacks

Connect to the first cassette deck.

## ⑮ CD input jacks

Connect to the output jacks of a compact disc player.

## ⑯ VCR 1 jacks

### [VIDEO OUT]

Connect to the VCR 1 VIDEO INPUT jack.

### [AUDIO OUT (L, R)]

Connect to the VCR 1 AUDIO INPUT jacks.

### [VIDEO IN]

Connect to the VCR 1 VIDEO OUTPUT jack.

### [AUDIO IN (L, R)]

Connect to the VCR 1 AUDIO OUTPUT jacks.

## ⑰ LD input jacks

Connect to an LD player's output jacks (audio, video).

## ⑱ TV/SAT (Satellite) jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

## ⑲ CENTER SPEAKER terminals

Connect the center speaker to these terminals.

### NOTE :

*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use a center speaker with an impedance of 8  $\Omega$  to 16  $\Omega$ .*

## ⑳ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

### NOTE:

- *Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use rear speakers with an impedance of 8  $\Omega$  to 16  $\Omega$ .*
- *Be sure to connect two speakers (L, R). There will be no sound if only one speaker is connected.*

## ㉑ FRONT SPEAKERS terminals

**A** : Connect to the first set of speakers.

**B** : Connect to the second set of speakers.

### NOTE:

*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use front speakers with an impedance of 8  $\Omega$  to 16  $\Omega$ .*

## ㉒ Power cord

## ㉓ AC OUTLETS

(U.S. and Canadian models)

### [ SWITCHED TOTAL 100 W (0.8 A) MAX ]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

### [ UNSWITCHED 100 W (0.8 A) MAX ]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

(Multi-voltage model)

### [ SWITCHED TOTAL 100 W MAX ]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

### [ UNSWITCHED 100 W MAX ]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

### NOTE:

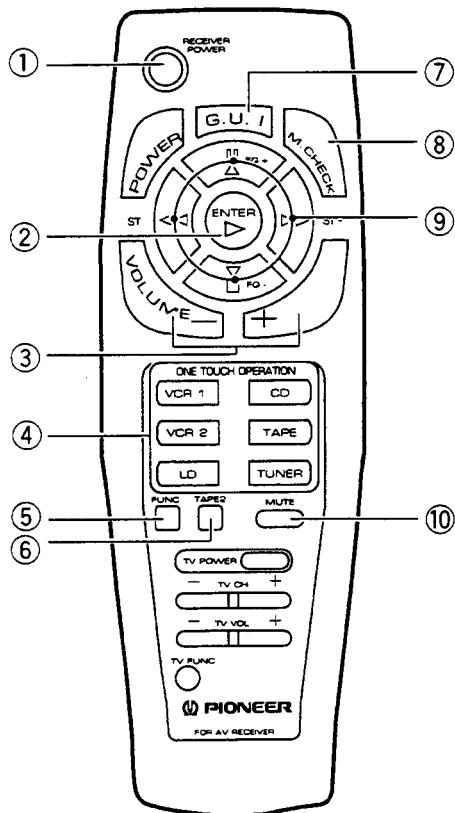
- *This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.*
- *Do not connect appliances with high power consumption such as heaters, irons, or television sets to this AC OUTLETS in order to avoid overheating and fire risk. This can cause the receiver to malfunction.*

### CAUTION:

**DO NOT CONNECT MONITOR OR TV SET.**



**RECEIVER CONTROL BUTTONS**



**① RECEIVER POWER button**

Switches the receiver power between ON and STANDBY.

**② ENTER button**

When GUI is ON, press to execute an operation selected with the Select/Adjust buttons.

**③ VOLUME +, - buttons**

Adjusts the overall volume.

**④ ONE TOUCH OPERATION buttons**

VCR 1/2, CD, LD, TAPE :

Pressing these buttons automatically calls up "ONE TOUCH OPERATION SET UP" settings, made using GUI. (P. 36)

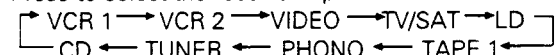
TUNER :

This switches power to the TUNER ON, and starts reception of the last memorized station.

Also, if power to this unit is OFF, it is switched ON, and operation automatically switches to the selected function. When you press any of the ONE TOUCH OPERATION buttons, the GUI MODE becomes off.

**⑤ FUNC. (function) button**

Press to select the receiver input.



**⑥ TAPE 2 (TAPE 2 MONITOR) button**

Switches TAPE 2 MONITOR on/off.

**⑦ G.U.I. button**

Switches GUI MODE on and off.

When the GUI mode is ON, the Select/Adjust button ⑨ (Δ, ▷, ▽, ◁) lights.

**⑧ M.CHECK (Mode check) button**

Indicates whether the GUI MODE is on or off.

When it is on, Δ, ▷, ▽, ◁ light. When it is off, a ④ ONE TOUCH OPERATION button lights to indicate the current function.

If you press the button again while it is lit, remote control functions change. When the remote control is in the GUI mode, the ⑨ Select/Adjust buttons (Δ, ▷, ▽, ◁) light.

**⑨ Select/Adjust buttons (Δ, ▷, ▽, ◁)**

When the GUI mode is ON, Δ, ▷, ▽, and ◁ light.

When using the GUI function with the on-screen display, use for such operations as selection and adjustments (by moving the cursor).

When the GUI mode is OFF, use to operate other components.

**⑩ MUTE button**

Used to temporarily mute the sound. When it's in the on position, the "MUTING" indicator lights. The volume is restored when pressed again.

**OPERATING OTHER COMPONENTS**

**REMOTE CONTROLLING OF ANY OTHER OF YOUR AUDIO-VISUAL COMPONENTS VIA THIS UNIT REQUIRES:**

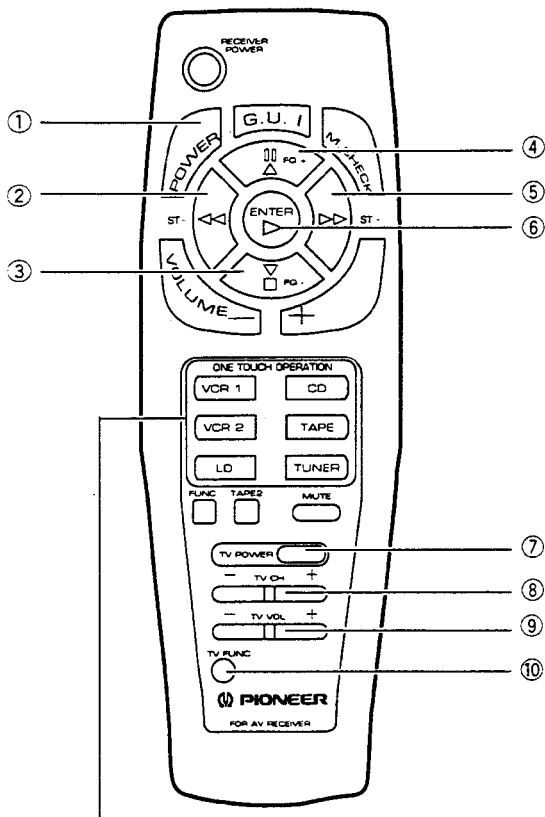
All components must be remote controllable (have a sensor window on the front panel) to receive a direct command from this unit, upon successful learning of those commands by this programmable unit,

**When operating components other than the receiver:**

1. Press the ONE TOUCH OPERATION button for the component you want to operate.
2. Press the operation button.

**NOTE:**

Components that could not originally be operated by remote control cannot be controlled by this unit's remote control.



ONE TOUCH OPERATION buttons switch between each of the functions.

## TV operation

- ⑦ **TV POWER button:**  
Switches the power of the TV ON/OFF.
- ⑧ **TV CH (channel) +, - button:**  
Switches TV channels in order.
- ⑨ **TV VOL (volume) +, - button:**  
Raises (+) and lowers (-) the volume.
- ⑩ **TV FUNC (function) button:**  
Used to change the TV FUNCTION.  
TV FUNC button cannot be used with some PIONEER TVs.

## VCR 1/VCR 2 operation

- ① **POWER button:**  
Switches VCR power ON/OFF.
- ② **◀◀ (REW) button:**  
Rewinds the tape and arrows picture search.
- ③ **■ (STOP) button:**  
Stops the tape transport.
- ④ **⏸ (PAUSE/STILL) button:**  
Sets pause and still picture.
- ⑤ **▶▶ (FF) button:**  
Rapidly advances the tape and arrows picture search.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

## LD player operation

- ① **POWER button:**  
Switches LD player power ON/OFF.
- ② **◀◀ (SCAN/CHAPTER SEARCH) button:**  
Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter. Continue pressing to rewind.
- ③ **■ (STOP) button:**  
Playback is stopped when pressed once.  
With some LD players, pressing the button twice may open the disc tray.
- ④ **⏸ (PAUSE) button:**  
Video and audio are stopped and playback is paused.
- ⑤ **▶▶ (SCAN/CHAPTER SEARCH) button:**  
Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter. Continue pressing for fast forward.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

## CD player operation

- ① **POWER button:**  
Switches CD player power ON/OFF.
- ② **◀◀ (MANUAL/TRACK SEARCH) button:**  
Pressing quickly once takes you to the start of the track currently playing. Each time you press it, you move back to the start of the previous track. Continue pressing for reverse search.  
Pressing the ◀◀ button while pressing the ■ button takes you to the previous disc. (With a file-type CD player)
- ③ **■ (STOP) button:**  
Stops playback.
- ④ **⏸ (PAUSE) button:**  
Pauses playback.
- ⑤ **▶▶ (MANUAL/TRACK SEARCH) button:**  
Pressing quickly once takes you to the start of the next track. Each time you press it, you move ahead to the start of the next track. Continue pressing for forward search.  
Pressing the ▶▶ button while pressing the ■ button takes you to the next disc. (With a file-type CD player)
- ⑥ **▶ (PLAY) button:**  
Selects playback.

**TAPE operation**

- ① **POWER button:**  
Switches cassette deck power ON/OFF.
- ② **◀◀ (FF) button:**  
Rapidly advances the tape in the direction of the arrows.
- ③ **■ (STOP) button:**  
Stops the tape transport.
- ④ **⏸ (PAUSE/STILL) button:**  
Temporarily stops tape transport. Press again to resume tape transport.
- ⑤ **▶▶ (FF) button:**  
Rapidly advances the tape in the direction of the arrows.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

**Tuner operation**

- ② **ST - (Station Down) button:**  
Used for recalling memorized stations.
- ③ **FQ - (Frequency Down) button:**  
Shifts the frequency down.
- ④ **FQ + (Frequency Up) button:**  
Shifts the frequency up.
- ⑤ **ST + (Station Up) button:**  
Used for recalling memorized stations.
- ⑥ **Band button:**  
Switches the FM and AM bands in turn.

**Auto tuning:**

Press FQ + (up) or - (down) button until the frequency starts to change, then release it. The tuner will automatically search for a broadcasting station and stops when one is found, and the TUNED indicator lights up. To search for another station, press again.

**Manual tuning:**

Press FQ + (up) or - (down) button and release quickly. The tuning frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station. The TUNED indicator lights up when the station is tuned in best.

- If you keep the FQ (up/down) button depressed after the frequency has began to change, the reception frequency changes continuously, and stops when the button is released.

**NOTE:**

*When AUTO TUNING is in use, reception may not be possible over long distances or when signals are weak. At these times MANUAL TUNING is recommended.*

## 13. SPECIFICATIONS (VSX - D704S)

### Amplifier Section

**Continuous average power output of 165 watts\* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.05 %\*\* total harmonic distortion (front).**

[Multi-voltage model]

Continuous Power Output (DIN)  
Front (1kHz, T.H.D. 1%, 8 Ω) ..... 180 W+ 180 W

#### Continuous Power Output

Front ..... 130 W + 130 W (1kHz, 0.8%, 8 Ω)  
Center ..... 130 W (1kHz, 0.8%, 8 Ω)  
Rear ..... 130W (1kHz, 0.8%, 8 Ω)

Dynamic Power (2 Ω /4 Ω) ..... 450 W/330 W  
Input (Sensitivity/Impedance)

PHONO MM ..... 2.8 mV/47 kΩ  
CD, TAPE 1, TAPE 2, LD,  
VCR 1, VCR 2, VIDEO, TV/SAT ..... 200 mV/47 kΩ

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

PHONO MM ..... 100 mV

#### Frequency Response

PHONO MM ..... 20 Hz to 20,000 Hz ± 0.3 dB  
CD, TAPE 1, TAPE 2, LD, VCR 1,  
VCR 2, VIDEO, TV/SAT ..... 5 Hz to 100,000 Hz ±0.3dB

#### Output (Level/Impedance)

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

#### Tone Control

BASS ..... ± 8 dB (150 Hz)  
TREBLE ..... ± 8 dB (10 kHz)  
SUPER BASS ..... +8 dB (80 Hz)

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

PHONO MM ..... 76 dB  
CD, TAPE 1, TAPE 2, LD,  
VCR 1, VCR 2, VIDEO, TV/SAT ..... 97 dB

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

PHONO MM ..... 77 dB  
CD, TAPE 1, TAPE 2, LD,  
VCR 1, VCR 2, VIDEO, TV/SAT ..... 80 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)

VCR 1, VCR 2, LD, VIDEO ..... 1 Vp-p/75 Ω

#### Output (Level/Impedance)

VCR 1, VCR 2, MONITOR ..... 1 Vp-p/75 Ω

#### Frequency Response

VCR 1, VCR 2,  
LD, VIDEO → MONITOR ..... 5 Hz to 10 MHz ±0 dB

Signal-to-Noise Ratio ..... 55 dB

Cross Talk ..... 55 dB

### 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: 80 dB (at 65 dBf)  
Stereo: 76 dB (at 85 dBf)  
Distortion ..... Stereo: 0.3 % (1 kHz)  
Alternate Channel Selectivity ..... 65 dB (400 kHz)  
Stereo Separation ..... 45 dB (1 kHz)  
Frequency Response ..... 30 Hz to 15 kHz (±0.5) dB  
Antenna Input ..... 300 Ω balanced  
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) ..... 300 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 ..... 375 W, 340 VA  
Multi-voltage model ..... 1070 W

In Standby Condition ..... 5 W

#### AC Outlets

U.S. and Canadian models  
SWITCHED X 2 ..... TOTAL 100 W (0.8 A) MAX  
UNSWITCHED X 1 ..... 100 W (0.8 A) MAX

#### Multi-voltage model

SWITCHED X 2 ..... TOTAL 100 W MAX  
UNSWITCHED X 1 ..... 100 W MAX

Dimensions ..... 420 (W) X 162 (H) X 414 (D) mm  
16-9/16 (W) X 6-3/8 (H) X 16-5/16 (D) in

#### Weight (without package)

U.S. and Canadian models ..... 12.6 kg (27 lb 12 oz)  
Multi-voltage model ..... 12.8 kg (28 lb 4 oz)

### Furnished Parts

FM T-type Antenna ..... 1  
AM Loop Antenna ..... 1  
Dry Cell Batteries  
[size "AA" (IEC R6/UM-3)] ..... 2  
Remote Control Unit ..... 1  
Mini-Repeater ..... 1  
Main-Repeater ..... 1  
Operating Instructions ..... 1

#### NOTE:

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