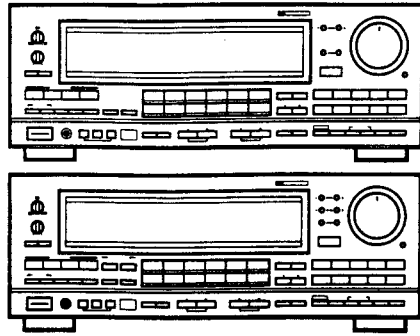


Service Manual

PIONEER
The future of sound and vision.



ORDER NO.
ARP1838

AUDIO/VIDEO STEREO RECEIVER

VSX-9500S

VSX-7500S

VSX-9500S AND VSX-7500S HAVE FOLLOWING VERSIONS:

Type	Applicable model		Power requirement	Export destination
	VSX-9500S	VSX-7500S		
KUC	○	○	AC120V only	U.S.A. and Canada
SD/G	○	○	AC110V, 120V - 127V, 220V, 240V (switchable)	U.S. Military

- This manual is applicable to the VSX-9500S/KUC, SD/G, VSX-7500S/KUC and SD/G types.
- For the VSX-9500S/SD/G, VSX-7500S/KUC and SD/G types, refer to page 74 - 77.

CONTENTS

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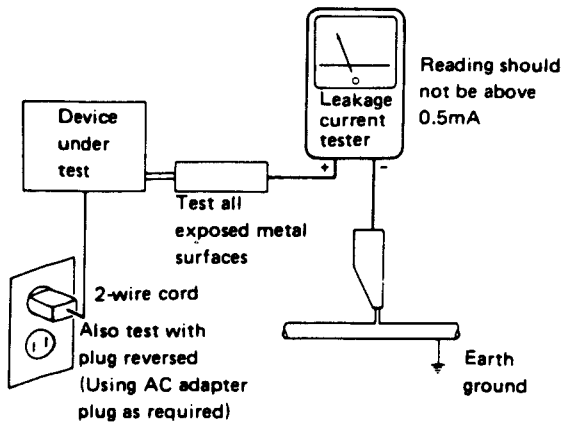
1. SAFETY INFORMATION

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

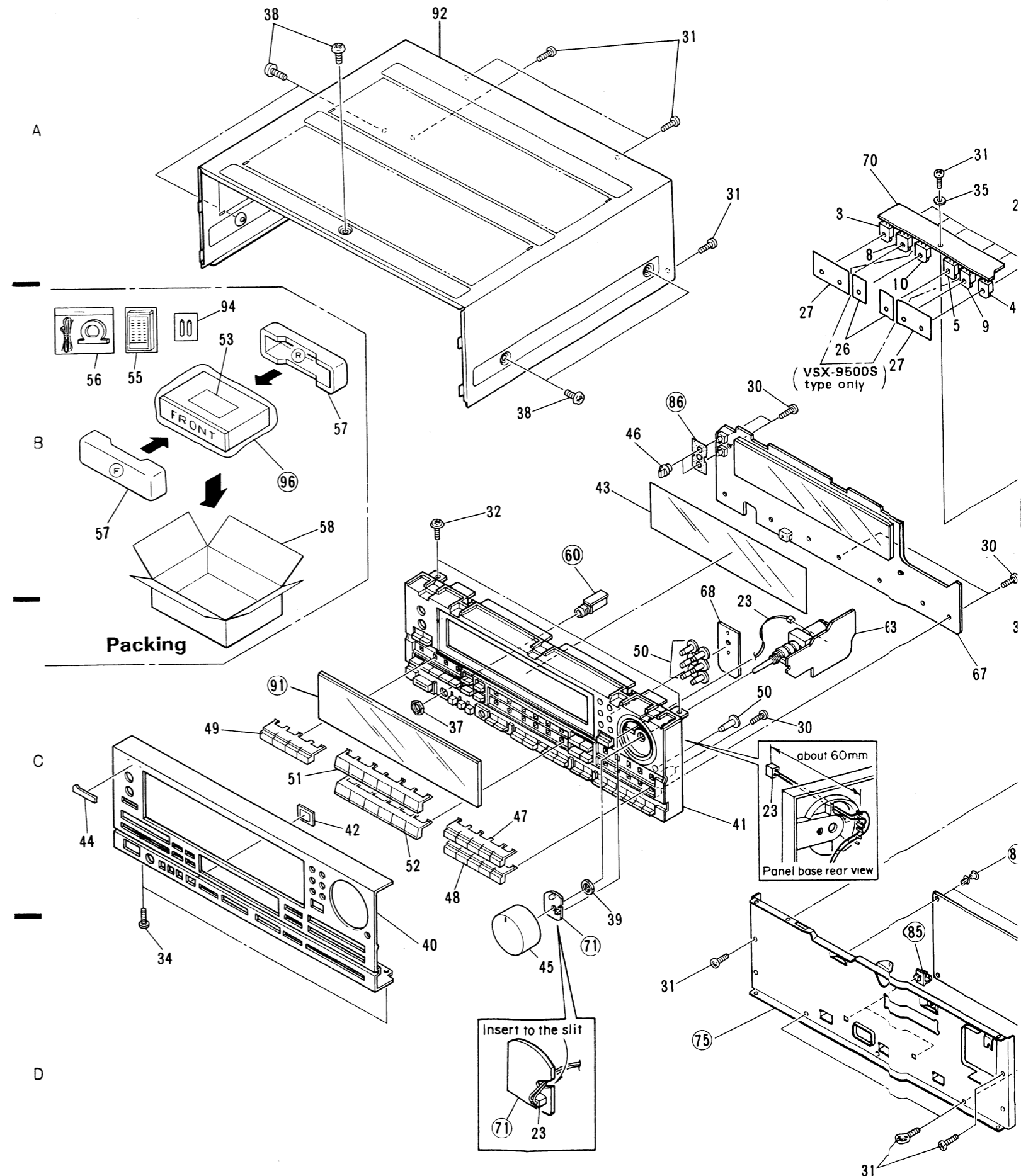
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:

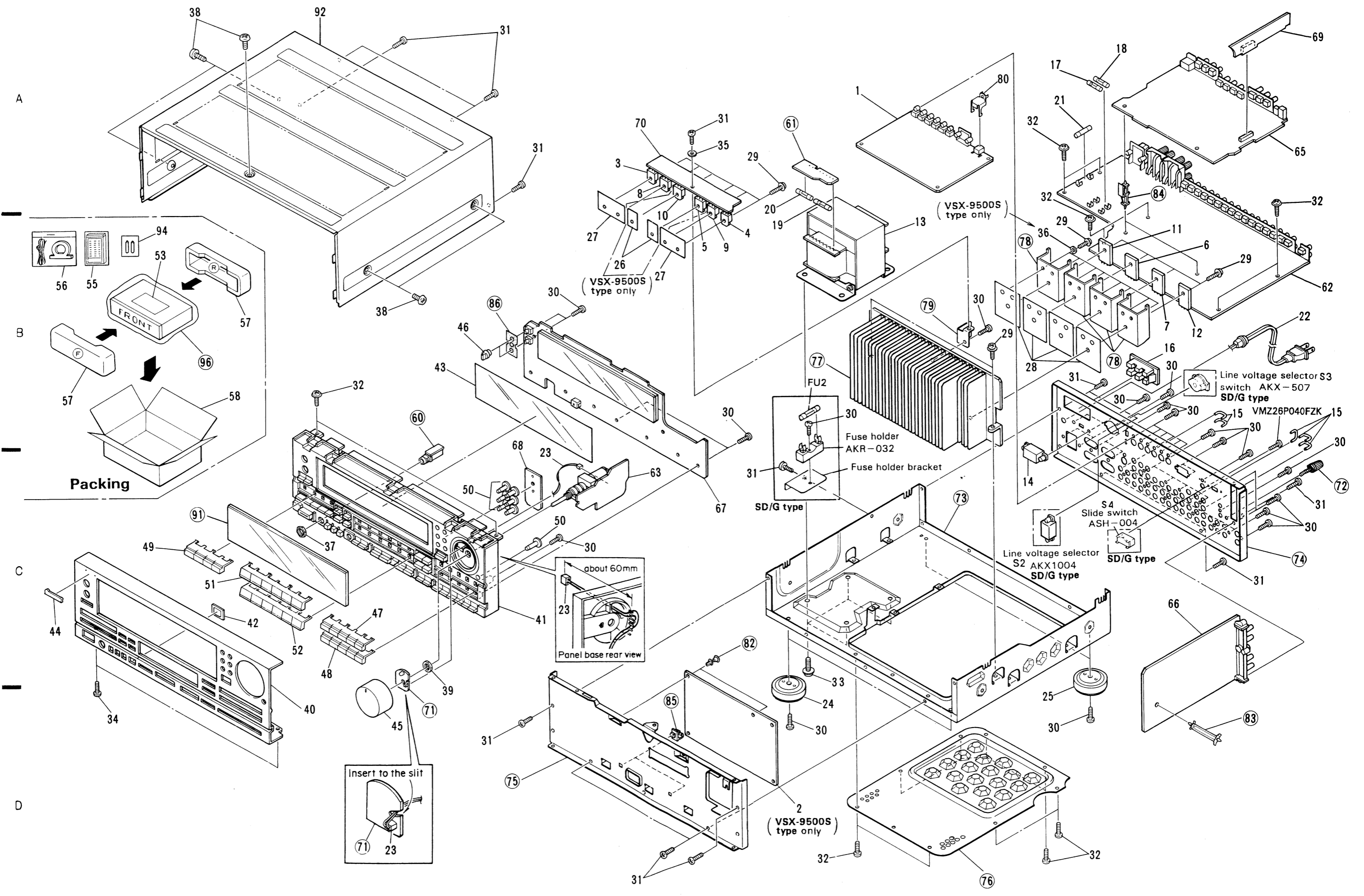
- Parts without part number cannot be supplied.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	AWK1219	S TERM/CENTER SP ASSY	51	AAD1570	FUNCTION KNOB	
	2	AWX1025	PRO LOGIC ASSY	52	AAD1571	FUNCTION K-NOB	
Δ	3	2SA1263N	TRANSISTOR Q 7	53	ARB1173	OPERATING INSTRUCTIONS	
Δ	4	2SA1263N	TRANSISTOR Q 8	54	.....	.....
Δ	5	2SA1263N	TRANSISTOR Q 10	55	AXD1100	REMOTE CONSOLE UNIT	
Δ	6	2SA1302	TRANSISTOR Q 3	56	AEA1007	ANTENNA KIT	
Δ	7	2SA1302	TRANSISTOR Q 4	57	AHA1164	PAD	
Δ	8	2SC3180N	TRANSISTOR Q 5	58	AHD1620	PACKING CASE	
Δ	9	2SC3180N	TRANSISTOR Q 6	59	.....	.....
Δ	10	2SC3180N	TRANSISTOR Q 9	60	.....	HEADPHONE ASSY
Δ	11	2SC3281	TRANSISTOR Q 1	61	.....	FUSE ASSY
Δ	12	2SC3281	TRANSISTOR Q 2	62	AWZ2507	AF ASSY	
Δ	13	ATS1205	POWER TRANSFORMER	63	AWZ2509	MOTOR-VOL	
Δ	14	AKX1004	VOLTAGE SELECTOR S 1	64	.....	.....
Δ	15	AKM1019	JUMPER PLUG	65	AWZ2511	VIDEO/SUR/CONTROL ASSY	
Δ	16	AKP-515	AC SOCKET 3-P	66	AWZ2512	TUNER ASSY	
Δ	17	AEK-109	FUSE(6A) FU 3	67	AWZ2513	FRONT CONTROL A ASSY	
Δ	18	AEK-109	FUSE(6A) FU 4	68	AWZ2514	FRONT CONTROL B ASSY	
Δ	19	AEK-120	FUSE(1.25A) FU 5	69	AWZ2515	METER AMP ASSY	
Δ	20	AEK-120	FUSE(1.25A) FU 6	70	AWZ2516	REAR AMP ASSY	
Δ	21	AEK-310	FUSE(10A) FU 1	71	.....	VOL IND ASSY
Δ	22	ADG1031	AC POWER CORD	72	.....	TERMINAL SCREW
Δ	23	ADX1191	2P WIRE ASSY	73	.....	CHASSIS
Δ	24	AMR1434	INSULATOR ASSY	74	.....	REAR PANEL
Δ	25	AMR1435	INSULATOR ASSY	75	.....	PANEL STAY
	26	AEC-818	MICA SHEET	76	.....	BOTTOM PLATE
	27	AEC1140	MICA SHEET	77	.....	HEAT SINK
	28	AEE1033	MICA SHEET	78	.....	SUB HEAT SINK
	29	ABA-297	SCREW	79	.....	PCB SUPORT
	30	ABA-298	SCREW	80	.....	JACK HOLDER
	31	ABA1009	SCREW	81	.....	.....
	32	ABA1011	SCREW	82	.....	PIN GROMMET
	33	ABA1034	SCREW	83	.....	PCB SUPORT
	34	ABA1048	SCREW	84	.....	PCB HOLDER
	35	ABE-053	WASHER	85	.....	PCB SUPORT
	36	ABF1018	BUSH	86	.....	BLIND SHEET
	37	ABN-065	NUT	87	.....	.....
	38	FBT40P080FZK	SCREW	88	.....	.....
	39	NK90FUC	NUT	89	.....	.....
	40	ANB1302	FRONT PANEL	90	.....	.....
	41	AMB1494	BASE	91	.....	ACRYLIC PANEL
	42	AAK1783	FILTER	92	AZN1804	BONNET CASE	
	43	AAK1513	PVC FILTER	93	.....	.....
	44	AAM1029	NAME PLATE (METAL)	94	.....	AM4 BATTERY(1.5V)
	45	AAB1056	ROTARY KNOB	95	.....	.....
	46	AAB1078	ROTARY KNOB S	96	.....	SHEET
	47	AAD1394	HINGE KNOB				
	48	AAD1395	HINGE KNOB				
	49	AAD1396	HINGE KNOB				
	50	AAD1398	TACT KNOB				



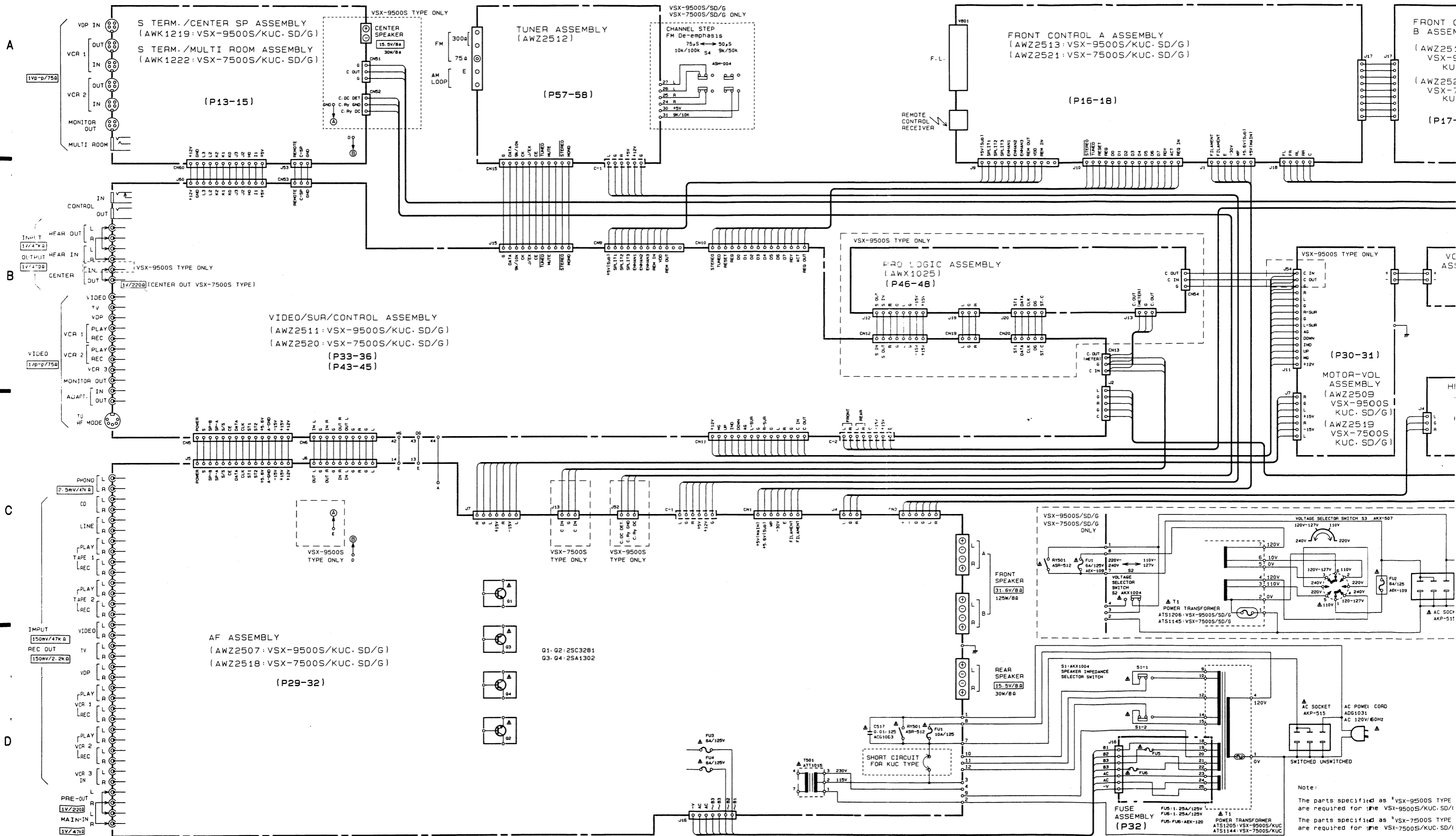
INSTRUCTIONS
FOR THE UNIT
BY
CONTROL ASSY
L A ASSY
L B ASSY
Y
EW

1.5V)

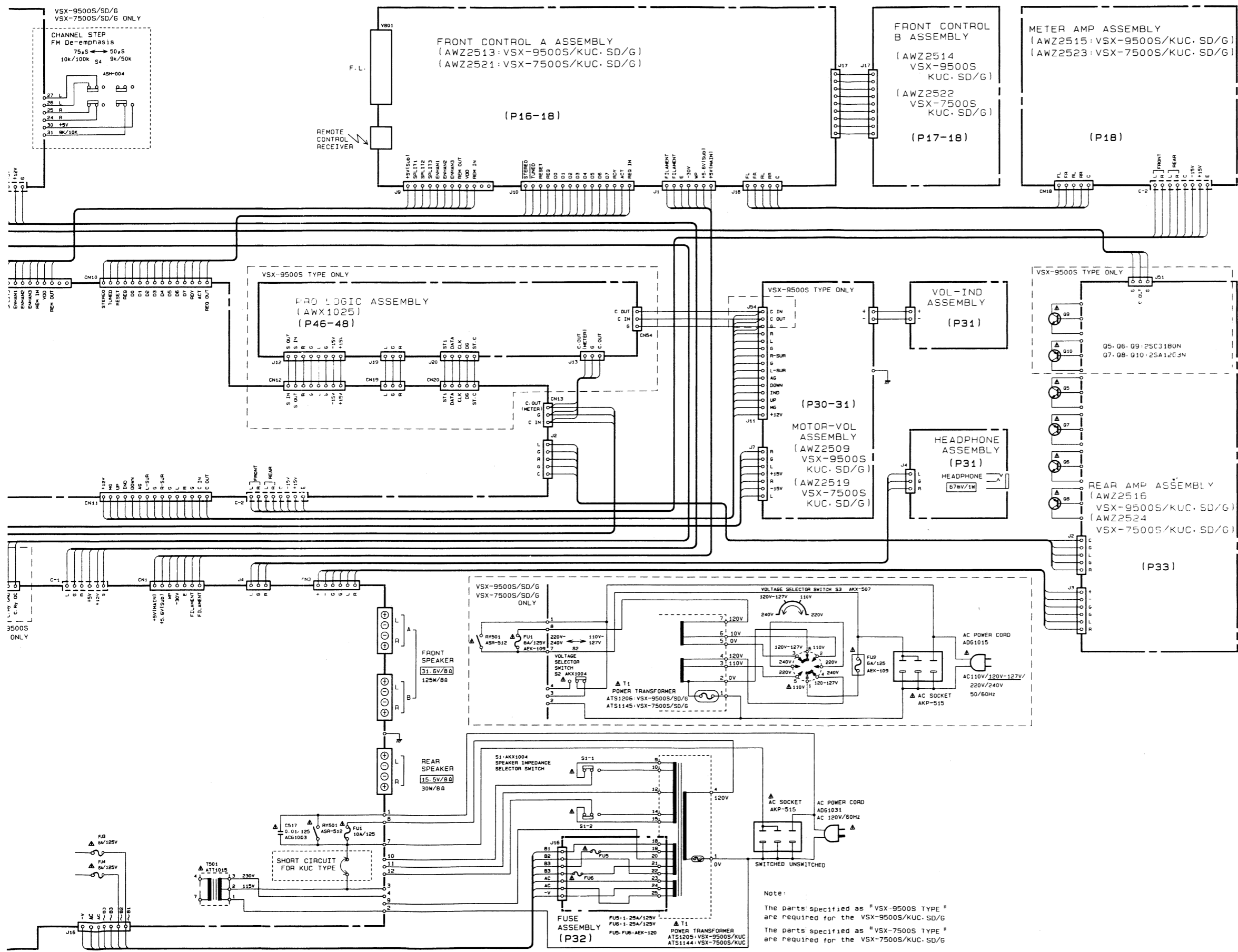


3. SCHEMATIC DIAGRAMS AND P.C.BOARDS CONNECTION DIAGRMS

3.1 OVER ALL SCHEMATIC DIAGRAM



Note:
 The parts specified as VSX-9500S TYPE are required for the VSX-9500S/KUC. SD/G.
 The parts specified as VSX-7500S TYPE are required for the VSX-7500S/KUC. SD/G.



- 1. RESISTORS:**
 Indicated in Ω , 1/4W, 1/8W, $\pm 5\%$ tolerance unless otherwise noted
 k:k Ω , M:M Ω , (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$ (M), $\pm 20\%$ tolerance
- 2. CAPACITORS:**
 Indicated in capacity (μ F)/voltage(V) unless otherwise noted p:pF
 Indication without voltage is 50V except electrolytic capacitor.
- 3. VOLTAGE, CURRENT:**
 [Symbol]: Signal voltage at 125V \times 125V(Front), 30V \times 30V(Rear), 8ohm output(1kHz)
 [Symbol]: DC voltage (V) at no input signal
 Value in () is DC voltage at rated power.
 [Symbol]: mA: DC current at no input signal
- 4. OTHERS:**
 [Symbol]: Signal route.
 [Symbol]: Adjusting point.
 The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 * marked capacitors and resistors have parts numbers.
 This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.
- 5. SWITCH**
- S1: SPEAKER IMPEDANCE SELECTOR
 8 Ω or more \Rightarrow 4 Ω to less than 8 Ω
- S2: Voltage Selector (SD/G model only)
 220-240V \Rightarrow 110-127V
- S3: Voltage Selector (SD/G model only)
 110V, 120-127V, 220V, 240V
- S4: CHANNEL STEP/FM DE-EMPHASIS (SD/G model only)
 75 μ S \Rightarrow 50 μ S
 10kHz/100kHz \Rightarrow 9kHz/50kHz
- | | |
|--------------------|---------------------|
| S801: TUNING UP | S836: CD |
| S802: TUNING DOWN | S837: TUNER |
| S803: ST 1 | S838: PHONO |
| S804: ST 2 | S839: TREBLE UP |
| S805: ST 3 | S840: TREBLE DOWN |
| S806: ST 4 | S841: ACOUSTIC |
| S807: ST 5 | S842: ACOUSTIC |
| S808: FM | S843: SELECT |
| S809: AM | S843: DELAY TIME |
| S810: ST 6 | S845: STADIUM |
| S811: ST 7 | S846: SIMULATED |
| S812: ST 8 | S847: BASS UP |
| S813: ST 9 | S848: BASS DOWN |
| S814: ST 10 | S849: VCR NOISE |
| S815: RETURN | S850: FILTER |
| S816: AUTO/MANUAL | S850: ENHANCER |
| S817: DIRECT | S851: SURROUND OFF |
| S818: FM MODE | S852: TV ANT |
| S819: MEMORY | S853: POWER STANDBY |
| S820: MEMORY SCAN | S854: SURROUND TEST |
| S821: NAME | S854: SURROUND TEST |
| S822: HITS | S855: CENTER MODE |
| S823: REAR UP | S855: CENTER MODE |
| S824: REAR DOWN | S856: VIDEO |
| S825: SIMULATED | S857: SP-A |
| STEREO | S858: SP-B |
| S826: VIDEO SIGNAL | S859: VCR 1 REC |
| SELECTOR | SELECTOR |
| S827: VCR 1 | S860: VIDEO ADAPTOR |
| S828: VCR 2 | S861: VCR 1 MODE |
| S829: VDP/CDV | S862: VCR 1 REC |
| S830: TV | ENHANCER |
| S831: L | S863: SP-REAR |
| S832: R | S864: VCR 3 |
| S833: MUTE | S865: LINE |
| S834: TAPE 2/DAT 2 | S866: CENTER UP |
| S835: TAPE 1/DAT 1 | (VSX-9500S only) |
| | S867: CENTER DOWN |
| | (VSX-9500S only) |

A

B

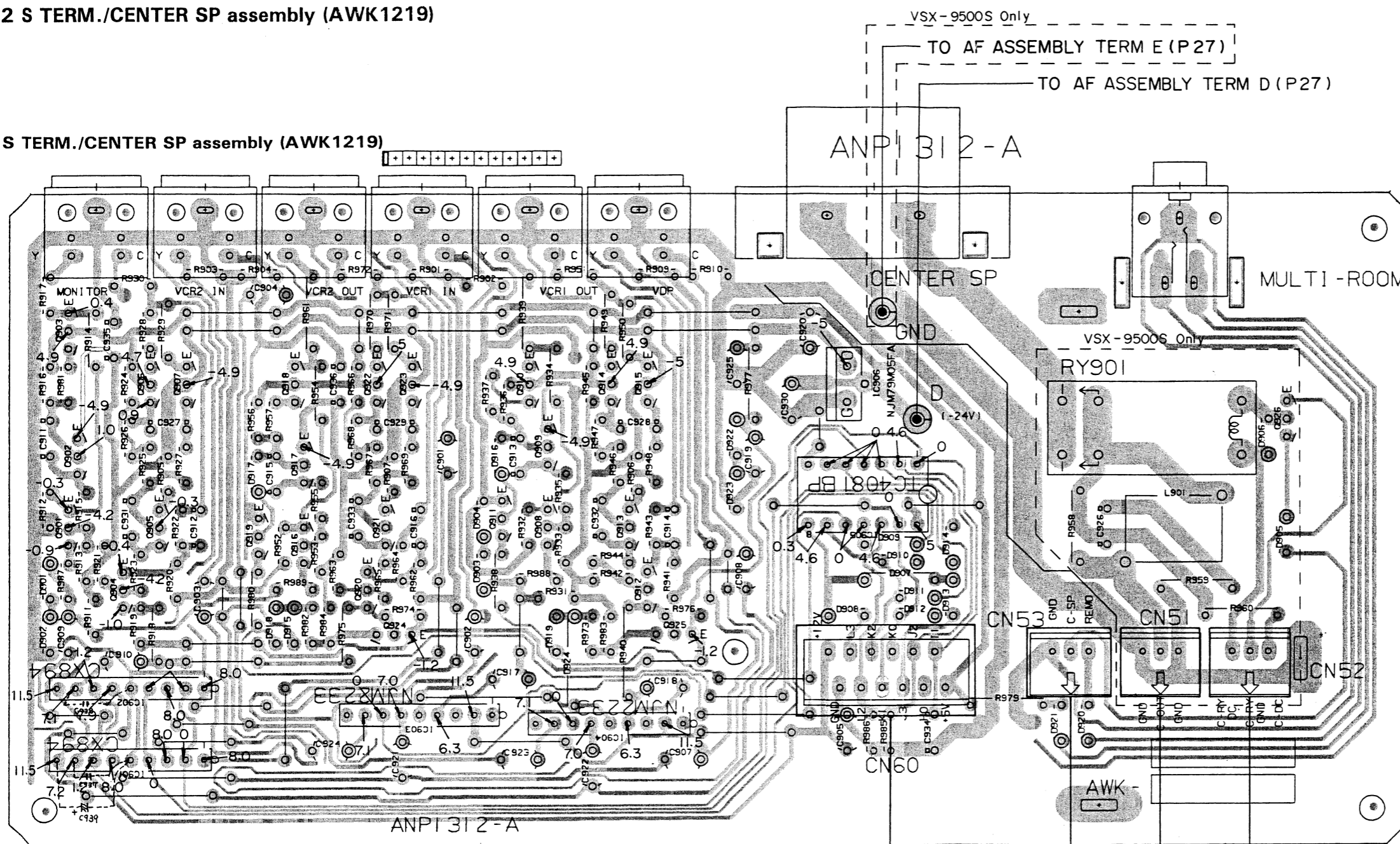
C

D

THE UNDERLINED INDICATES THE SWITCH POSITION

3.2 S TERM./CENTER SP assembly (AWK1219)

A S TERM./CENTER SP assembly (AWK1219)



NOTE

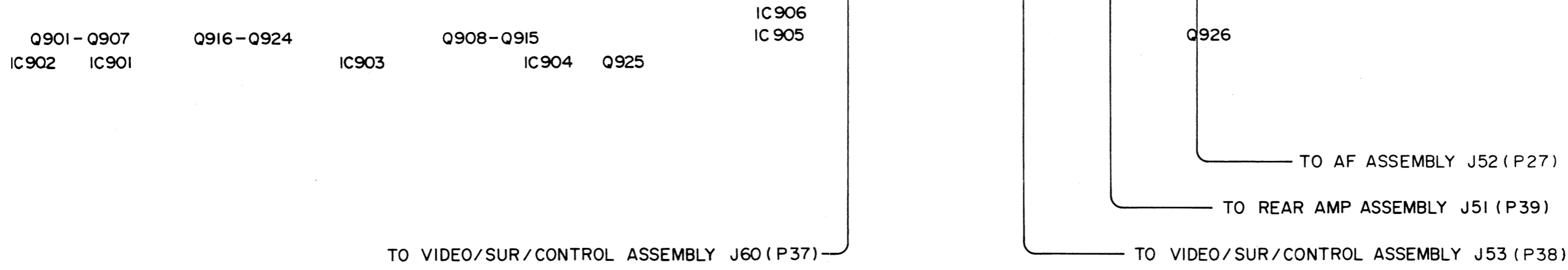
1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

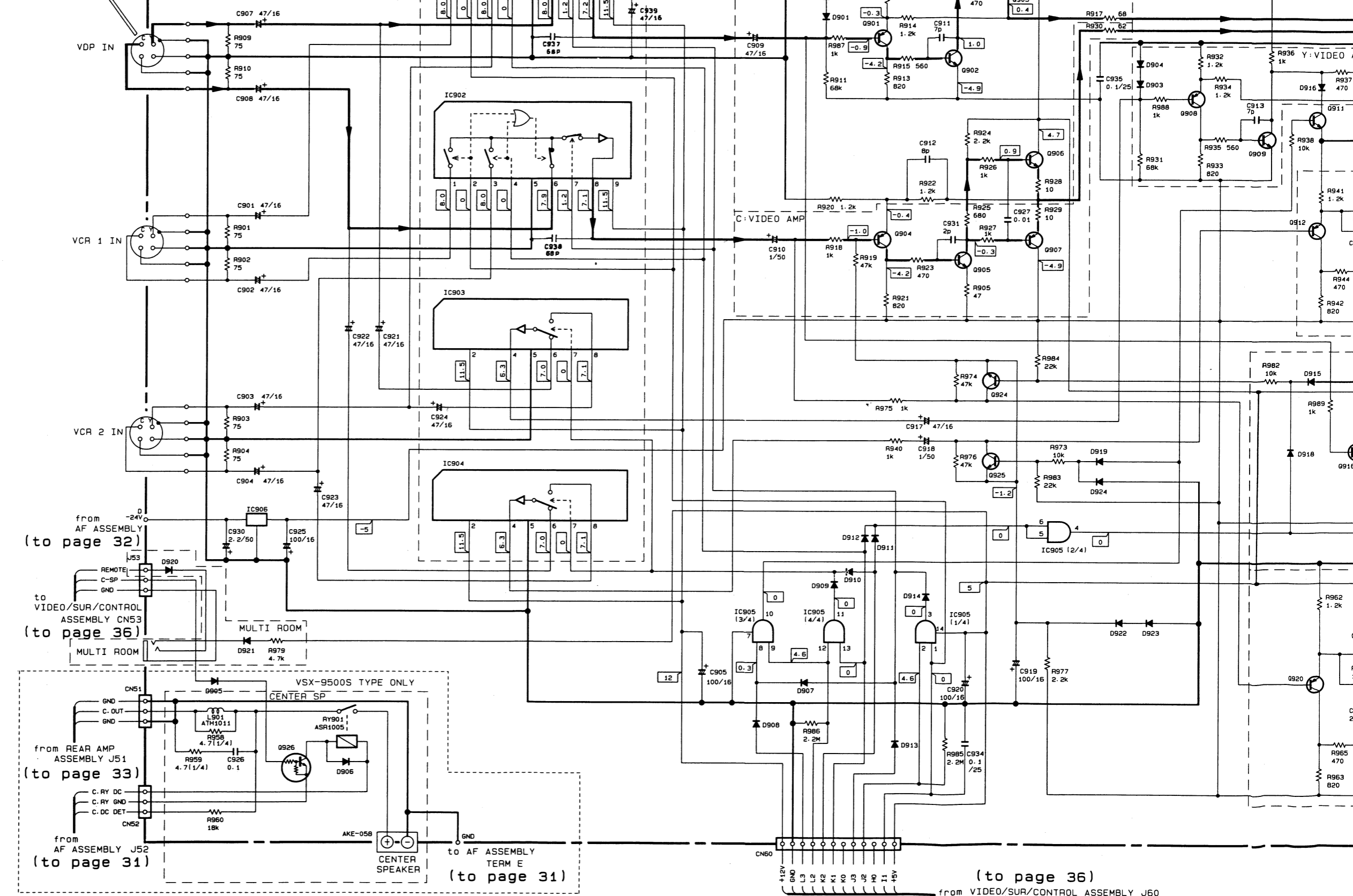
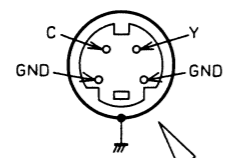
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊖ (double circles) shows negative terminal.
4. The diode terminal marked with ⊖ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



S TERM./CENTER SP ASSEMBLY (AWK1219:VSX-9500S/KUC.SD/G)
S TERM./MULTI ROOM ASSEMBLY(AWK1222:VSX-7500S/KUC.SD/G)

IC901. 902	CX-894	Q903. 910. 918	2SC1740S
IC903. 904	NJM2233BS	Q902. 905. 906.	2SC245B
IC906	NJM79M05FA	Q909. 911. 913.	
IC905	TC4081BP	Q914. 917. 919.	
		Q921. 922	
Q926	AN1201	Q924. 925	2SC287B
Q901. 904. 907.	2SA104B		
Q908. 912. 915.		Q901-924	1SS252
Q916. 920. 923.			



from AF ASSEMBLY (to page 32)

to VIDEO/SUR/CONTROL ASSEMBLY CN53 (to page 36)

from REAR AMP ASSEMBLY J51 (to page 33)

from AF ASSEMBLY J52 (to page 31)

to AF ASSEMBLY TERM E (to page 31)

(to page 36)

from VIDEO/SUR/CONTROL ASSEMBLY J60

A

B

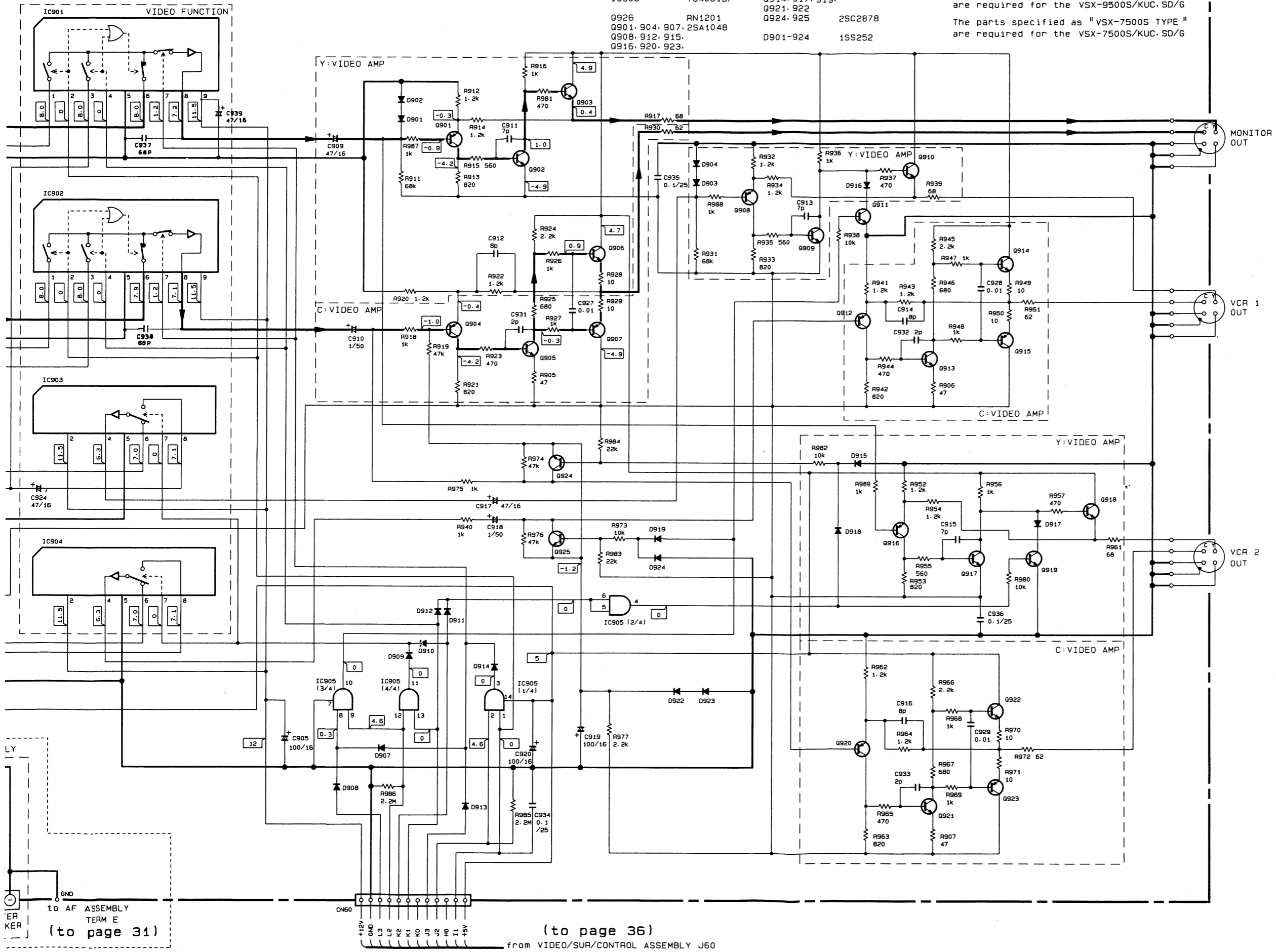
C

D

3LY (AWK1219:VSX-9500S/KUC.SD/G)
1BLY (AWK1222:VSX-7500S/KUC.SD/G)

IC901. 902	CX-894	Q903. 910. 918	25C1740S
IC903. 904	NJM2233BS	Q902. 905. 906.	25C2458
IC906	NJM79M05FA	Q909. 911. 913.	
IC905	TC4081BP	Q914. 917. 919.	
		Q921. 922	
Q926	RN1201	Q924. 925	25C2878
Q901. 904. 907.	2SA1048		
Q908. 912. 915.		D901-924	15S252
Q916. 920. 923.			

Note:
The parts specified as "VSX-9500S TYPE" are required for the VSX-9500S/KUC.SD/G
The parts specified as "VSX-7500S TYPE" are required for the VSX-7500S/KUC.SD/G



to AF ASSEMBLY
TERM E
(to page 31)

(to page 36)
from VIDEO/SUR/CONTROL ASSEMBLY J60

(to page 32)
from AF ASSEMBLY

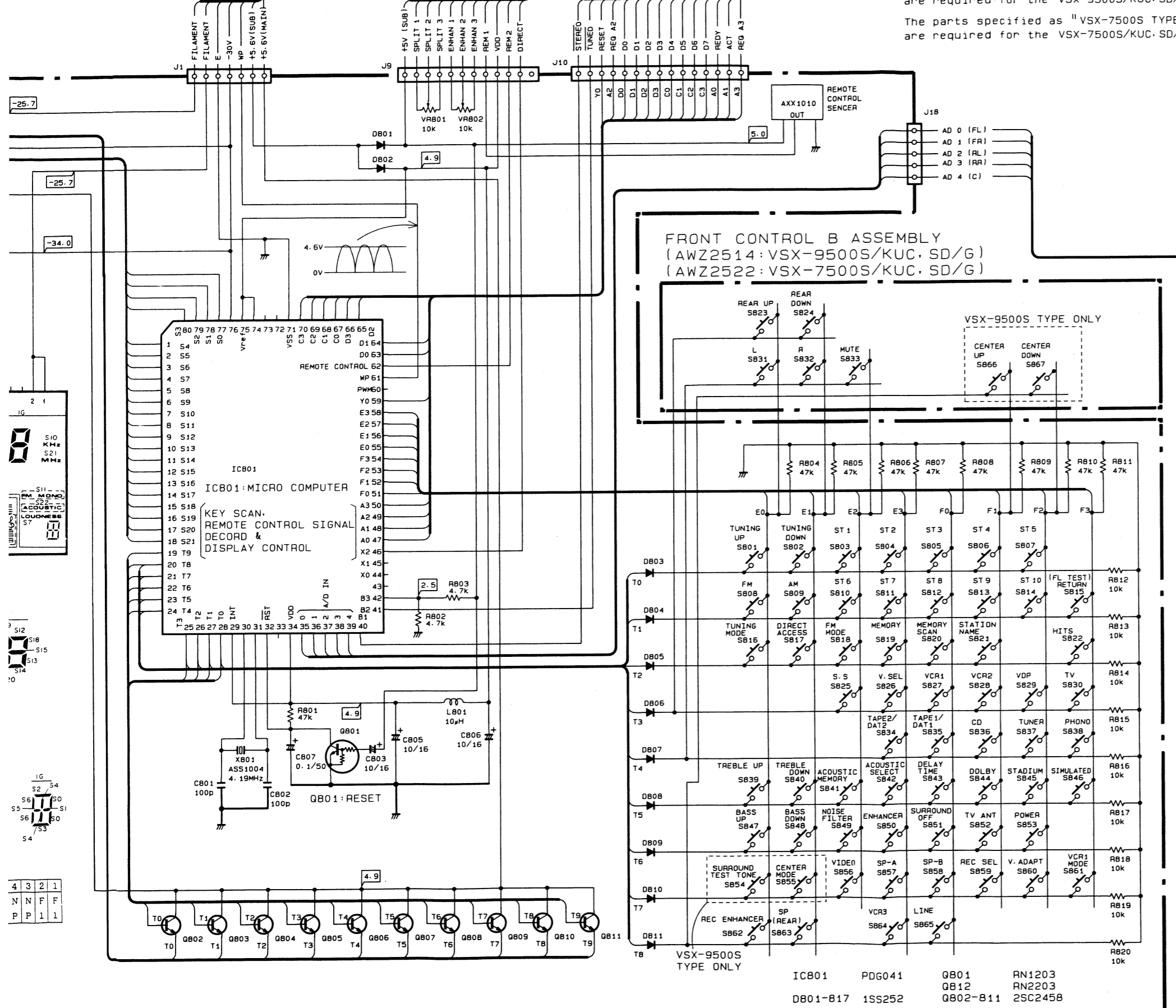
(to page 36)
to VIDEO/SUR/CONTROL CN9

(to page 36)
to VIDEO/SUR/CONTROL CN10

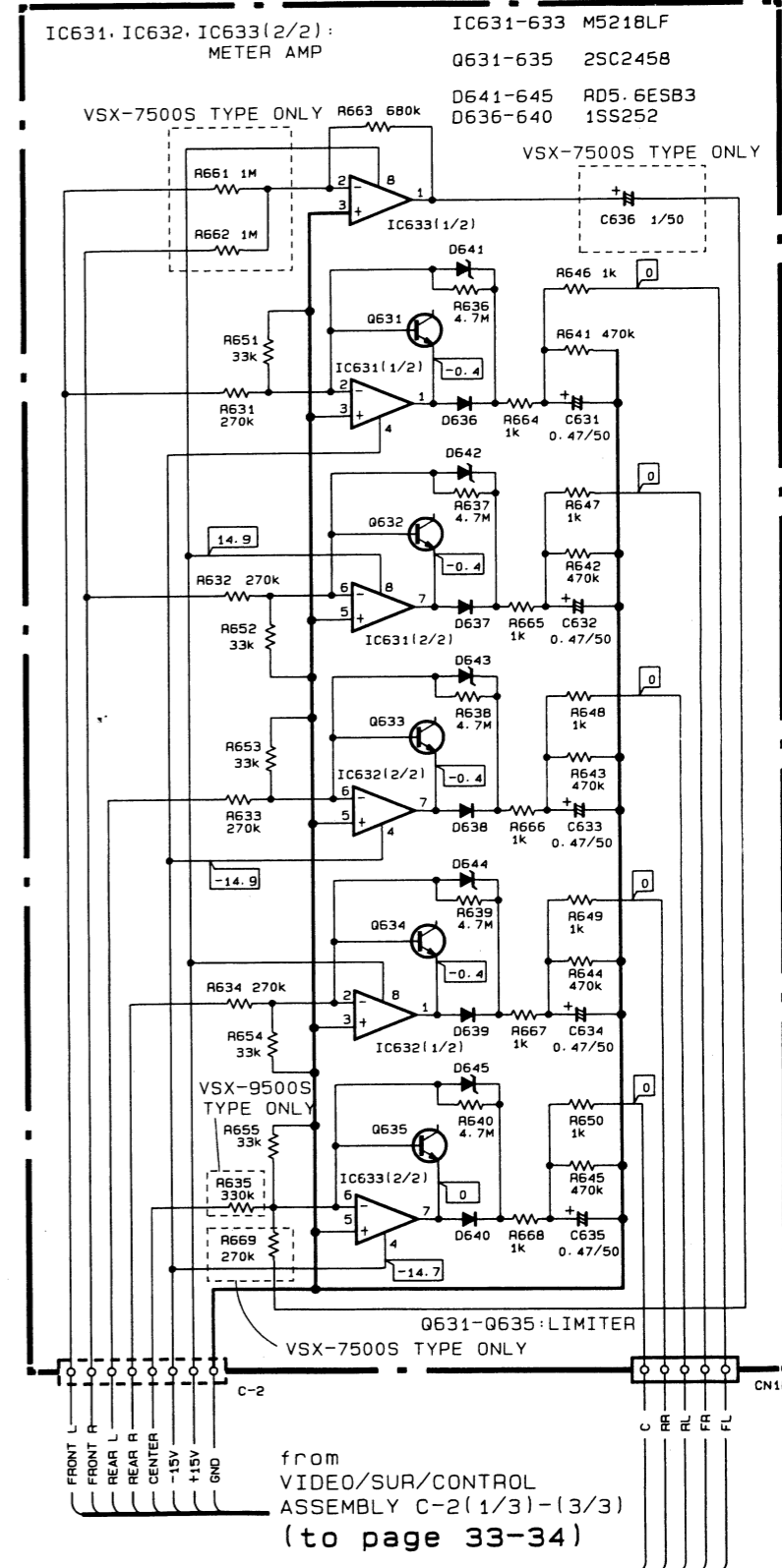
Note:

The parts specified as "VSX-9500S TYPE"
are required for the VSX-9500S/KUC.SD/G

The parts specified as "VSX-7500S TYPE"
are required for the VSX-7500S/KUC.SD/G



METER AMP ASSEMBLY
(AWZ2515: VSX-9500S/KUC.SD/G)
(AWZ2523: VSX-7500S/KUC.SD/G)



A
B
C
D

NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

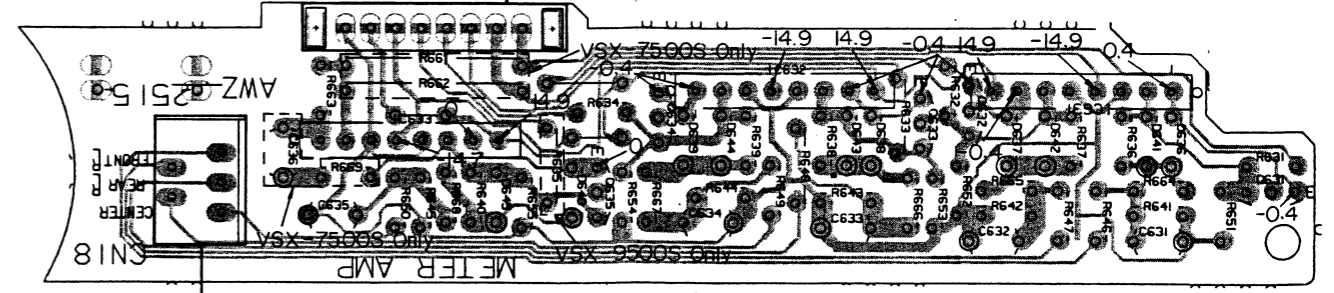
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

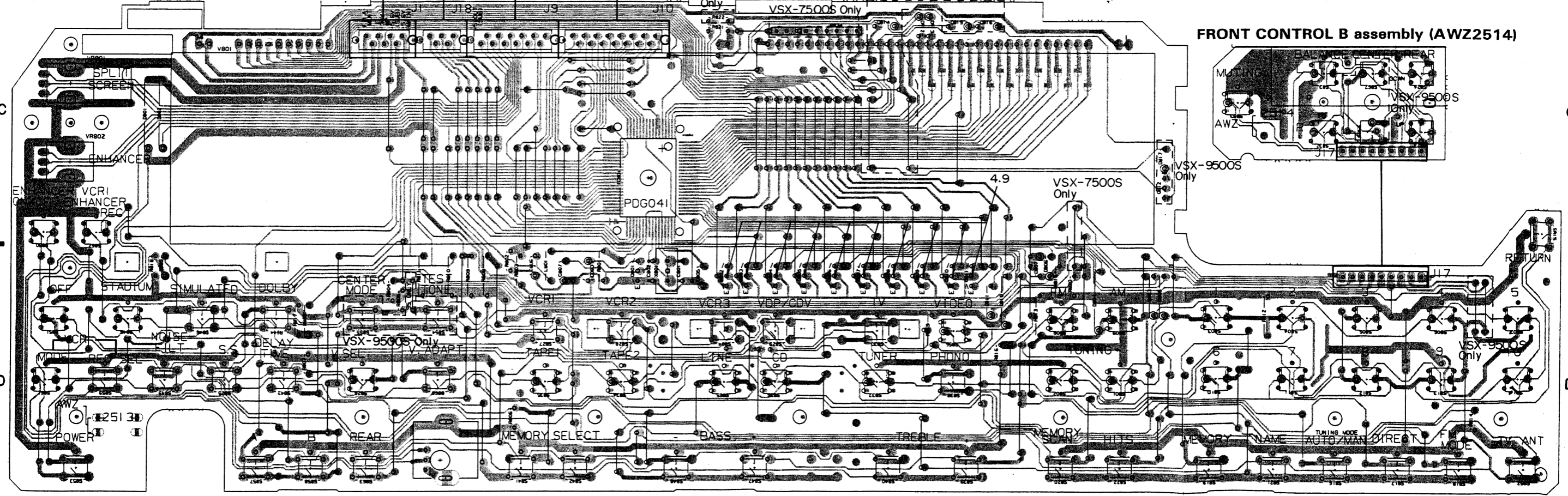
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊕ (double circles) shows negative terminal.
4. The diode terminal marked with ⊕ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

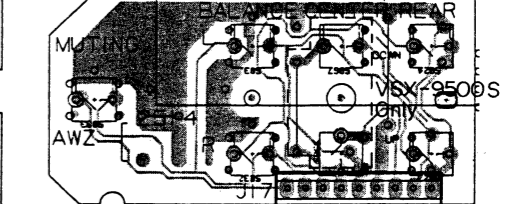
METER AMP assembly (AWZ2515)



FRONT CONTROL A assembly (AWZ2513)



FRONT CONTROL B assembly (AWZ2514)



NOTE:
This picture shows the foil side of the printed circuit.

TO FRONT CONTROL ASSEMBLY 11 (P19)

TO CONTROL ASSEMBLY 44 (P38)

TO VIDEO SUR CONTROL ASSEMBLY C15 (P37)

TO 2 TERM CENTER SP D (P11)

TO REAR AMP ASSEMBLY 13 (P39)

AC POWER CORD
AC 150V 60Hz
ADG1031

POWER TRANSFORMER
AT21205: V2X-25002/KUC
AT21144: V2X-15002/KUC

ISOV

FUSE assembly

TO VIDEO SUR CONTROL ASSEMBLY C13 (P38)
TO VIDEO SUR CONTROL ASSEMBLY 43 (P37)
TO VIDEO SUR CONTROL ASSEMBLY 45 (P38)

TO 2 TERM CENTER SP ASSEMBLY GND (P11)
V2X-25002 Only

A

B

C

D

9

8

7

6

5

4

9

8

7

6

5

4

3.4 AF (AWZ2507), MOTOR VOL (AWZ2509), VOL IND HEAD PHONE AND FUSE assembly

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

A

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊕ (double circles) shows negative terminal.
4. The diode terminal marked with ⊕ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

B

TO TUNER ASSEMBLY C-1 (P56)

TO VIDEO/SUR/CONTROL ASSEMBLY CN6 (P38)

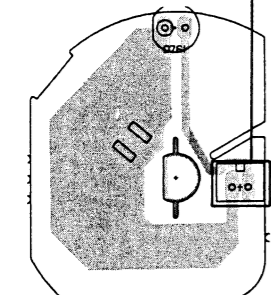
C

TO VIDEO/SUR/CONTROL ASSEMBLY CN11 (P37)

MOTOR VOL assembly (AWZ2509)

TO PRO LOGIC ASSEMBLY CN54 (P50)

D

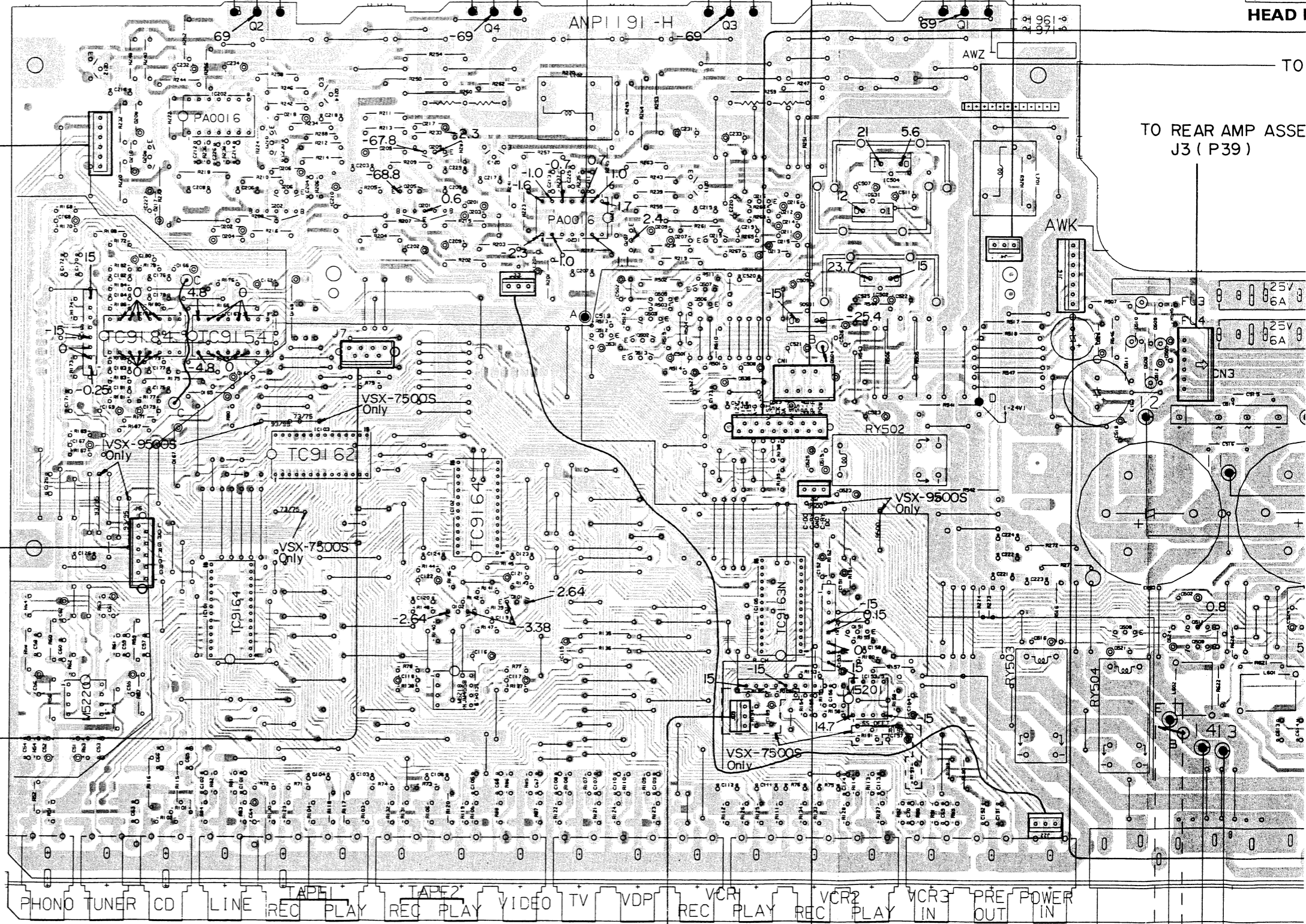


VOL IND assembly

TO VIDEO/SUR/CONTROL ASSEMBLY 44 (P38)

TO FRONT CONTROL ASSEMBLY J1 (P19)

AF assembly (AWZ2507)



PHONO TUNER CD LINE REC PLAY TAPE1 REC PLAY TAPE2 REC PLAY VIDEO TV VDP VCR REC PLAY VCR2 REC PLAY VCR3 REC PLAY PRE POWER IN OUT IN

Q212 Q208 IC202 Q210 Q206 Q202 Q214 Q209 Q205 Q201 Q213 Q207 Q512 Q211 Q216 IC501 IC504 IC165 IC168 IC167 IC101 IC103 IC102 Q102 Q101 IC201 Q513 Q502 Q505 Q507 Q215 IC505 IC502 Q503 Q506 IC105 IC152 IC151 Q151 IC153 Q508 Q511 Q509

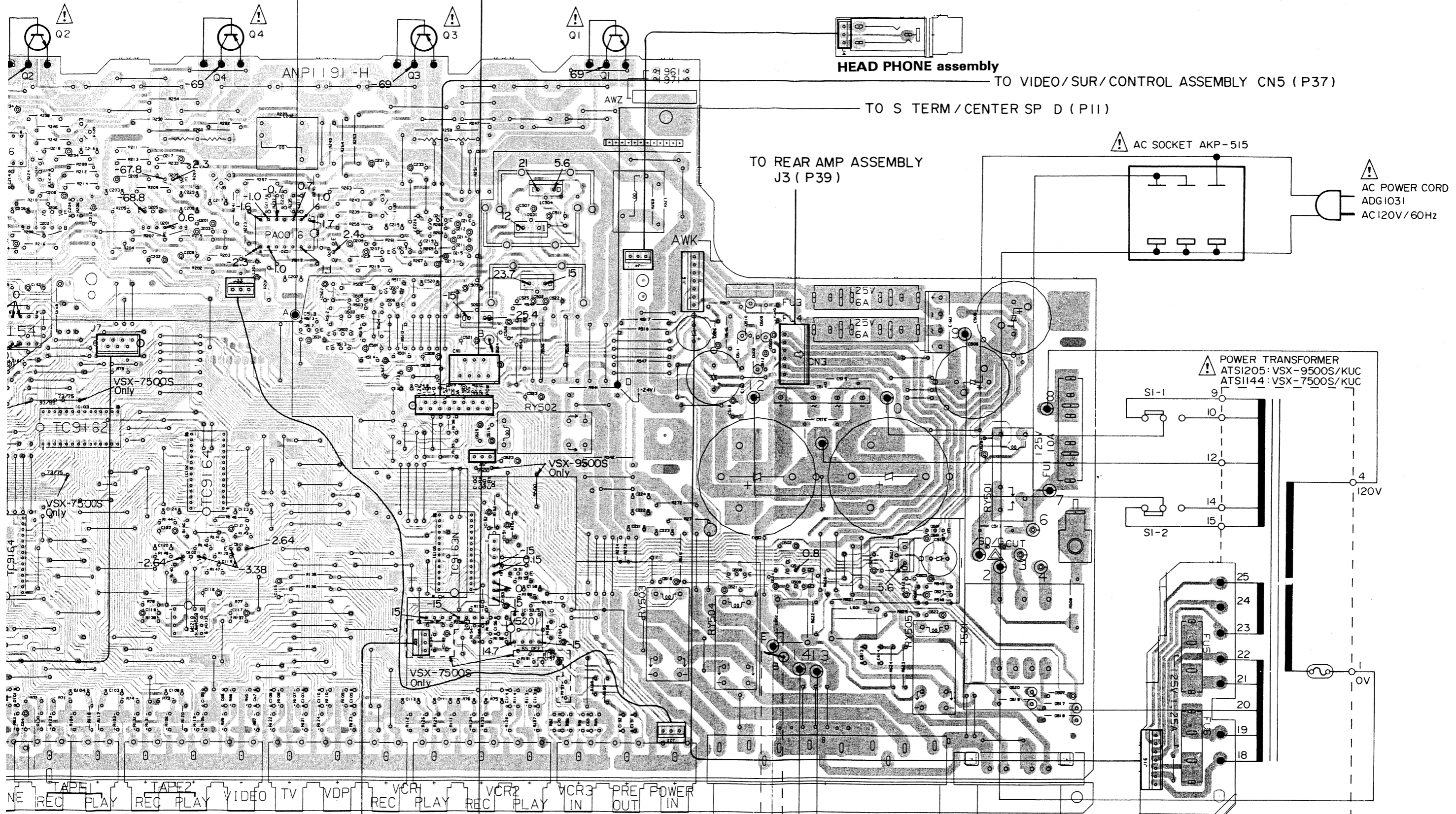
TO S TERM/CENTER SP ASSEMBLY CN52 (P12)

VSX-9500S Only

TO S TERM/CENTER SP ASSEMBLY GND (P11)

CONTROL ASSEMBLY 44 (P38)

TO FRONT CONTROL ASSEMBLY J1 (P19)



HEAD PHONE assembly

TO VIDEO/SUR/CONTROL ASSEMBLY CN5 (P37)

TO S TERM/CENTER SP D (P11)

TO REAR AMP ASSEMBLY J3 (P39)

AC SOCKET AKP-515

AC POWER CORD ADG1031 AC120V/60Hz

POWER TRANSFORMER ATSI205: VSX-9500S/KUC ATSI144: VSX-7500S/KUC

FUSE assembly

Q206 Q202 Q214 Q209 Q205 Q201 Q213 IC201 Q207 Q512 Q211 Q216 IC501 IC504
 IC103 IC102 Q102 Q101 IC104 Q513 Q502 Q505 Q507 Q215 IC105 IC505 IC502
 Q503 Q506 IC152 IC151 Q151 IC153 Q508 Q511 Q509 IC503 Q501

TO S TERM/CENTER SP ASSEMBLY CN52 (P12)

VSX-9500S Only TO S TERM/CENTER SP ASSEMBLY GND (P11)

TO VIDEO/SUR/CONTROL ASSEMBLY CN13 (P38)

TO VIDEO/SUR/CONTROL ASSEMBLY 43 (P37)

TO VIDEO/SUR/CONTROL ASSEMBLY 42 (P38)

A

B

C

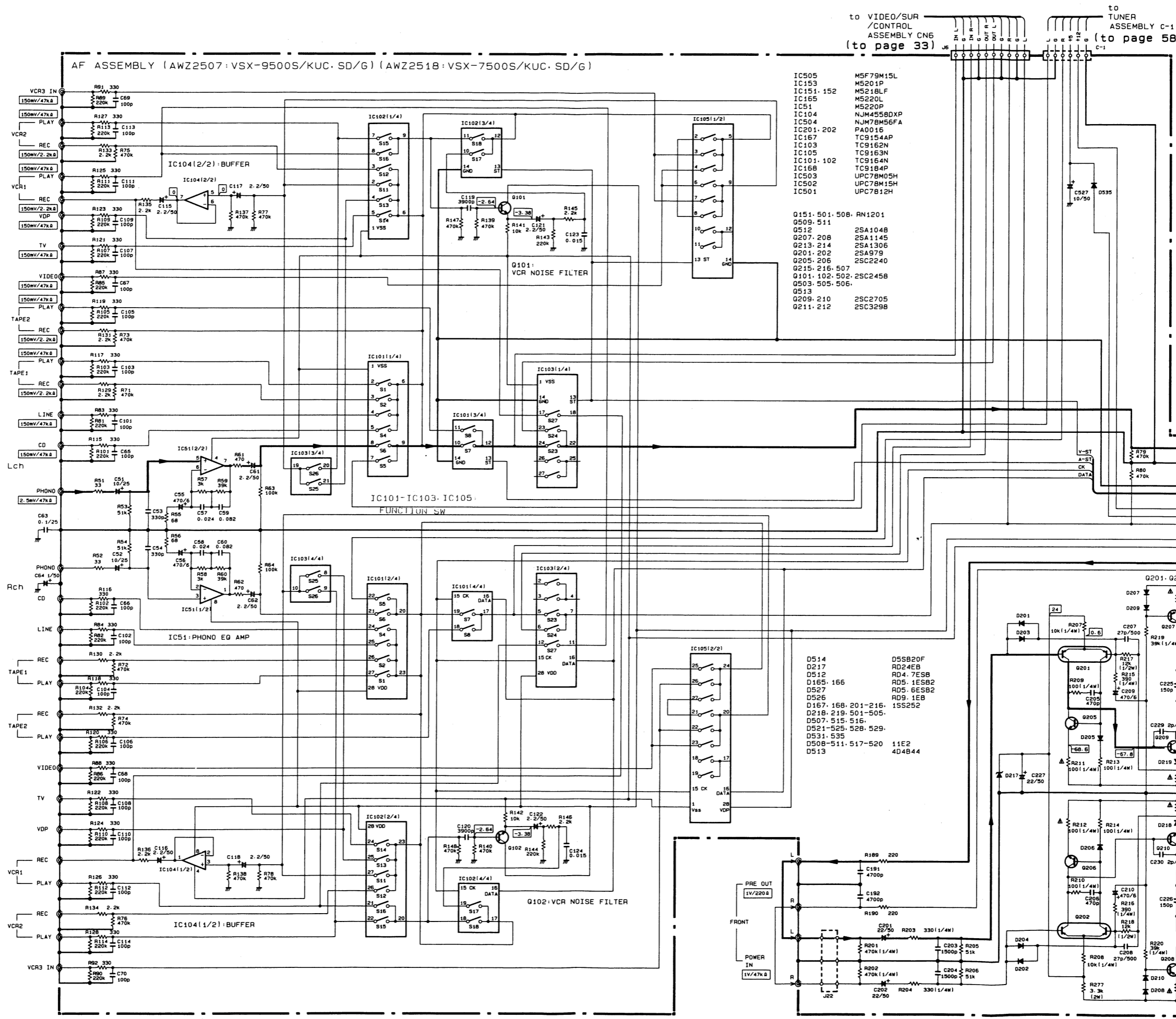
D

A

B

C

D



to VIDEO/SUR
/CONTROL
ASSEMBLY C-1
(to page 33)

to
TUNER
ASSEMBLY C-1
(to page 58)

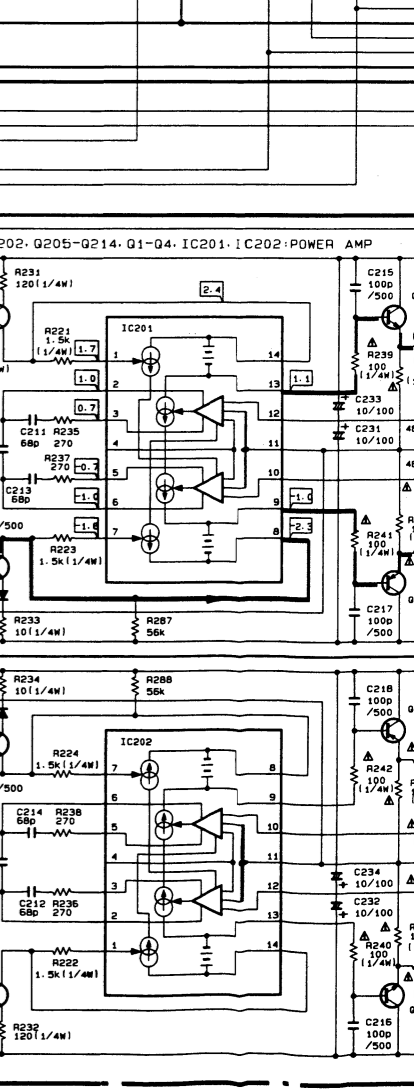
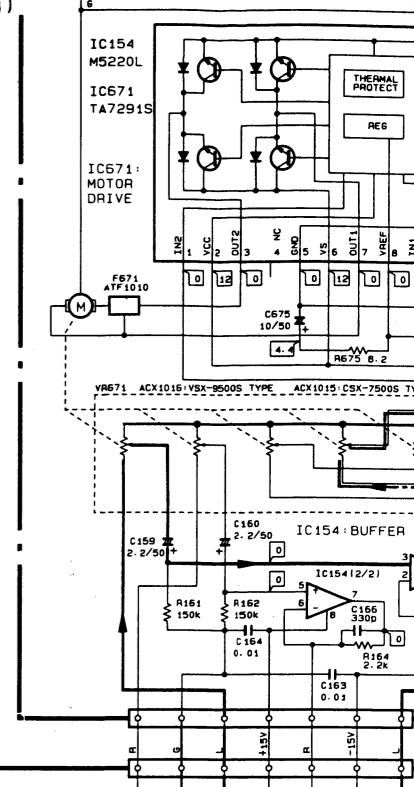
AF ASSEMBLY (AWZ2507:VSX-9500S/KUC.SD/G) (AWZ2518:VSX-7500S/KUC.SD/G)

- IC505 MSF79M15L
- IC153 MS201P
- IC151, 152 MS218LF
- IC155 MS220L
- IC51 MS220P
- IC104 NJM4558DXP
- IC504 NJM78M56FA
- IC201, 202 PA0016
- IC167 TC9154AP
- IC103 TC9162N
- IC105 TC9163N
- IC101, 102 TC9164N
- IC168 TC9184P
- IC503 UPC78M05H
- IC502 UPC78M15H
- IC501 UPC7812H

- Q151, 501, 508, AN1201
- Q509, 511
- Q512 2SA1048
- Q207, 208 2SA1145
- Q213, 214 2SA1306
- Q201, 202 2SA979
- Q205, 206 2SC2240
- Q215, 216, 507
- Q101, 102, 502, 2SC2458
- Q503, 505, 506, 513
- Q209, 210 2SC2705
- Q211, 212 2SC3298

- D514 D58B20F
- D217 RD24EB
- D512 RD4.7ESB
- D165, 166 RD5.1ESB2
- D527 RD5.6ESB2
- D526 RD9.1EB
- D167, 168, 201-216, 218, 219, 501-505, 507, 515, 516, 521-525, 528, 529, 531, 535, 508-511, 517-520, D513 11E2, 4D4B44

MOTOR VOL ASSEMBLY
(AWZ2509:VSX-9500S/KUC.SD/G)
(AWZ2519:VSX-7500S/KUC.SD/G)



1

2

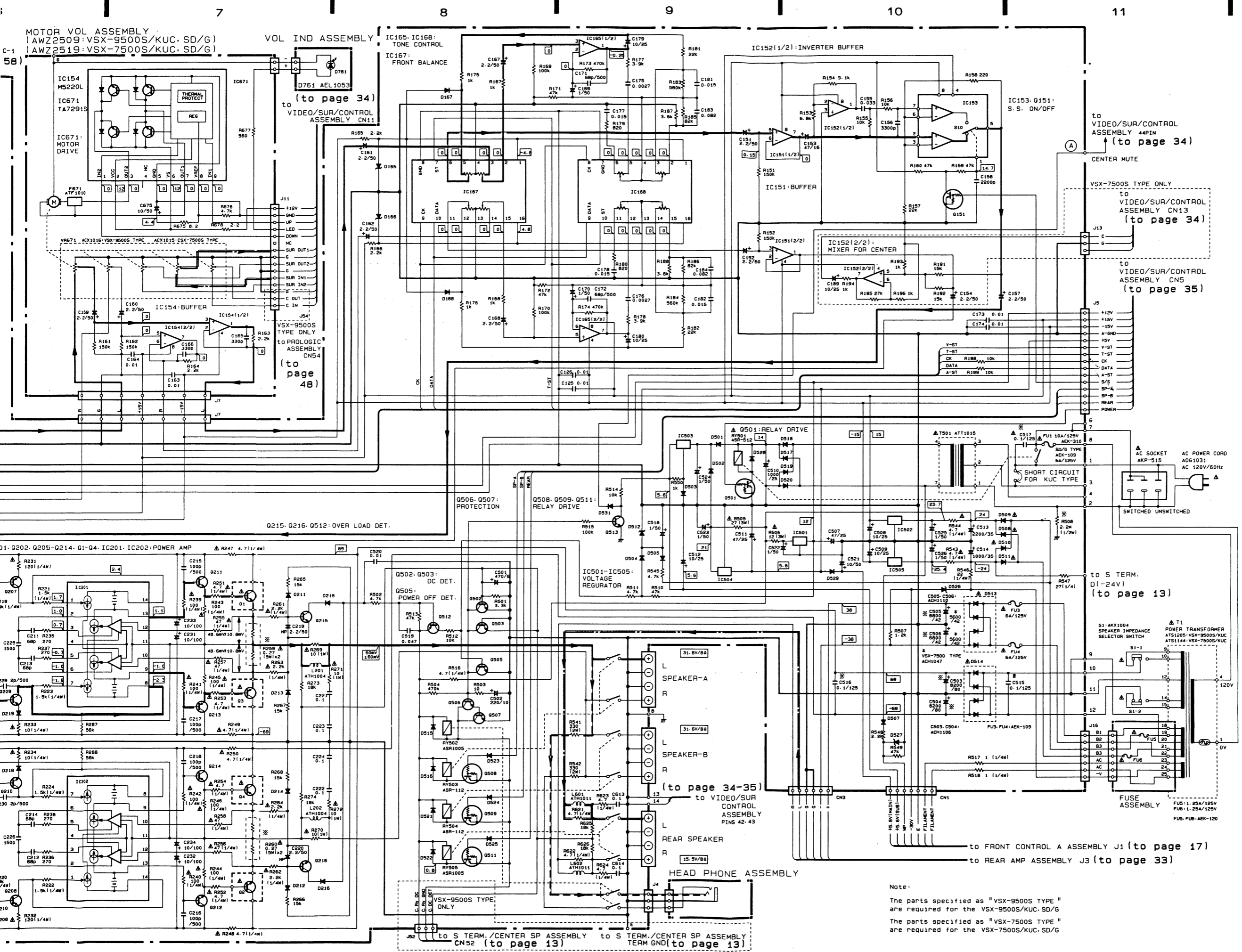
3

4

5

6

7



MOTOR VOL ASSEMBLY
 (AWZ2509: VSX-9500S/KUC, SD/G)
 (AWZ2519: VSX-7500S/KUC, SD/G)

VOL IND ASSEMBLY
 (to page 34)
 VIDEO/SUR/CONTROL ASSEMBLY CN11

IC165: IC168: TONE CONTROL
 IC167: FRONT BALANCE

IC152(1/2): INVERTER BUFFER

IC153: Q151: S. S. ON/OFF

to VIDEO/SUR/CONTROL ASSEMBLY 44PIN (to page 34)

VSX-7500S TYPE ONLY
 to VIDEO/SUR/CONTROL ASSEMBLY CN13 (to page 34)

to VIDEO/SUR/CONTROL ASSEMBLY CN5 (to page 35)

VSX-9500S TYPE ONLY
 to PROLOGIC ASSEMBLY CN54 (to page 48)

Q505, Q507: PROTECTION

Q508, Q509, Q511: RELAY DRIVE

IC501-IC505: VOLTAGE REGULATOR

to S TERM. D(-24V) (to page 13)

SPEAKER-A

SPEAKER-B

REAR SPEAKER

HEAD PHONE ASSEMBLY

(to page 34-35)
 to VIDEO/SUR CONTROL ASSEMBLY PINS 42-43

Note:

The parts specified as "VSX-9500S TYPE" are required for the VSX-9500S/KUC, SD/G
 The parts specified as "VSX-7500S TYPE" are required for the VSX-7500S/KUC, SD/G

Q1, Q202, Q205-Q214, Q1-Q4, IC201, IC202: POWER AMP

Q502, Q503: DC DET.

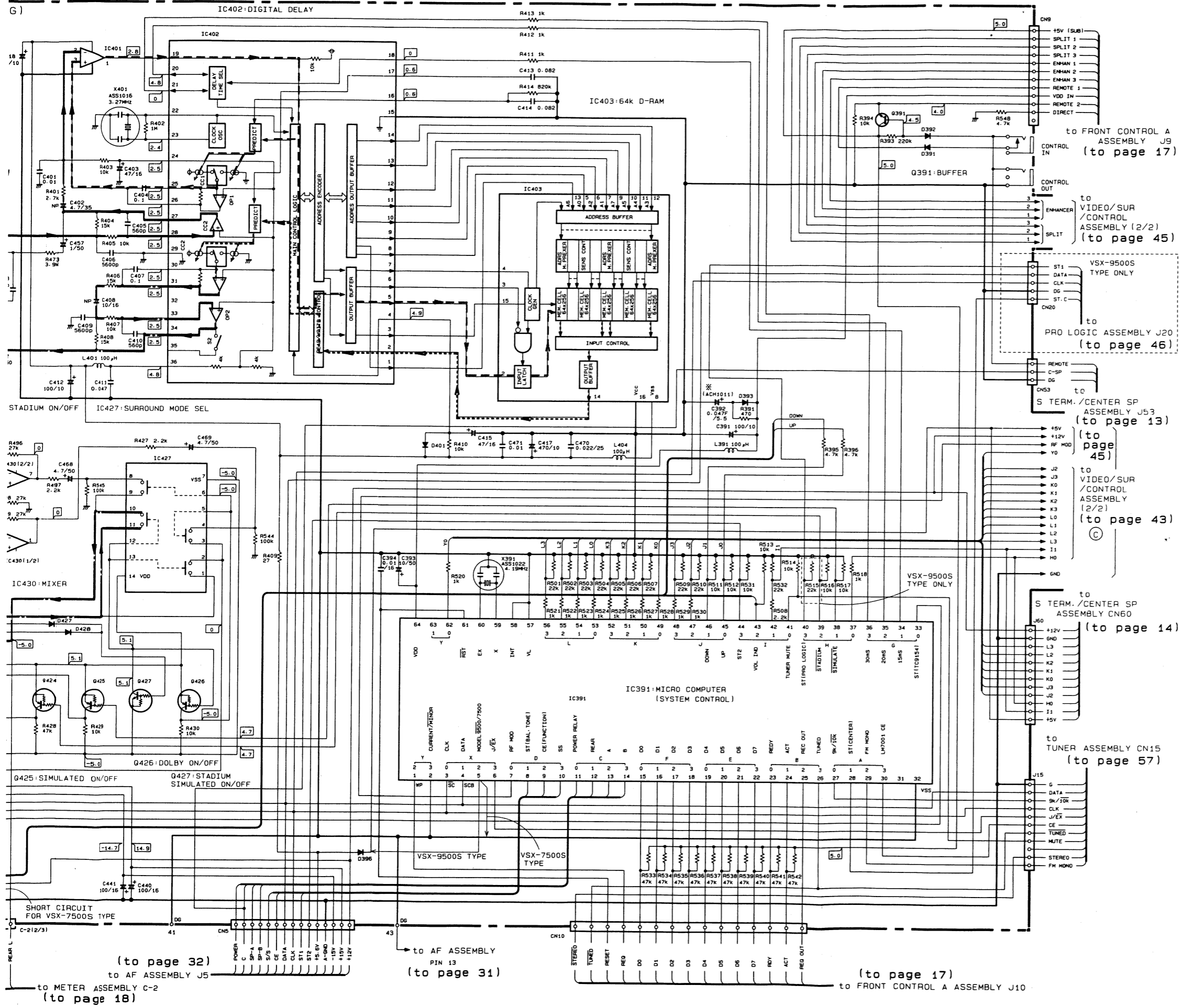
Q505: POWER OFF DET.

FUSE ASSEMBLY

to FRONT CONTROL A ASSEMBLY J1 (to page 17)
 to REAR AMP ASSEMBLY J3 (to page 33)

VSX-9500S TYPE ONLY
 to S TERM./CENTER SP ASSEMBLY CN52 (to page 13)

to S TERM./CENTER SP ASSEMBLY TERM GND (to page 13)



(to page 32)
to AF ASSEMBLY J5
to METER ASSEMBLY C-2
(to page 18)

to AF ASSEMBLY
PIN 13
(to page 31)

(to page 17)
to FRONT CONTROL A ASSEMBLY J10

to FRONT CONTROL A
ASSEMBLY J9
(to page 17)

to VIDEO/SUR
CONTROL
ASSEMBLY (2/2)
(to page 45)

VSX-9500S
TYPE ONLY
to
PRO LOGIC ASSEMBLY J20
(to page 46)

S TERM./CENTER SP
ASSEMBLY J53
(to page 13)
(to page 45)

to VIDEO/SUR
CONTROL
ASSEMBLY
(2/2)
(to page 43)

to
S TERM./CENTER SP
ASSEMBLY CN60
(to page 14)

to TUNER ASSEMBLY CN15
(to page 57)

A

B

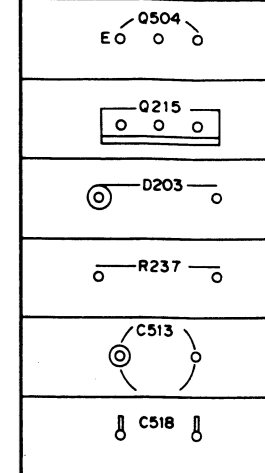
C

D

NOTE

- 1. This P.C.B connection diagram
- 2. The parts which have been
- with the corresponding wiring

P.C.B. pattern diagram indicating

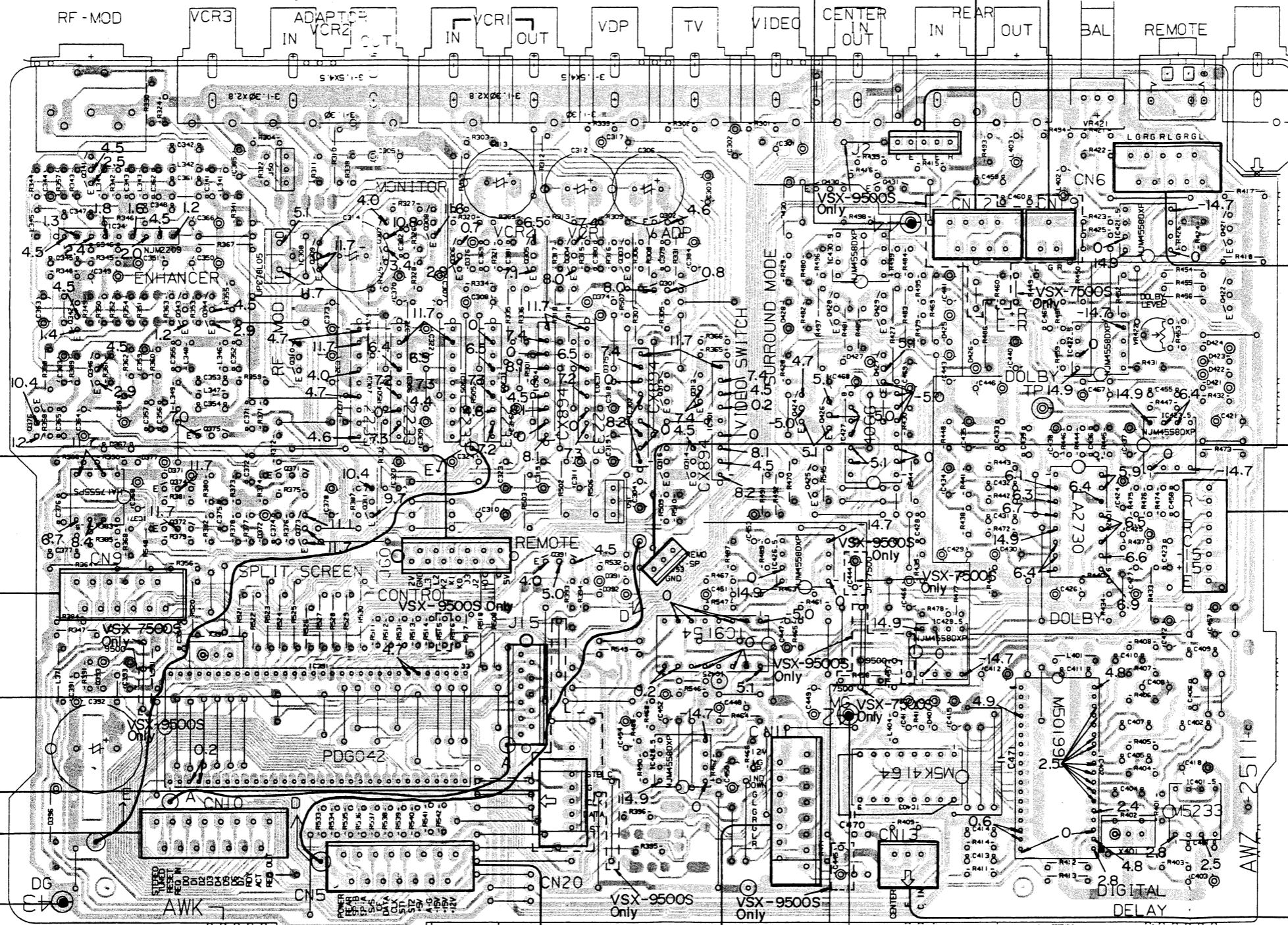


TO PRO LOGIC ASSEMBLY J19 (P50)

TO PRO LOGIC ASSEMBLY J12 (P50)

TO AF ASSEMBLY A (P27)

VIDEO/SUR/CONTROL assembly (AWZ2511)



A

B

TO S TERM / CENTER SP ASSEMBLY CN60 (P11)

TO S TERM / CENTER SP ASSEMBLY CN53 (P12)

TO METER AMP ASSEMBLY C-2 (P20)

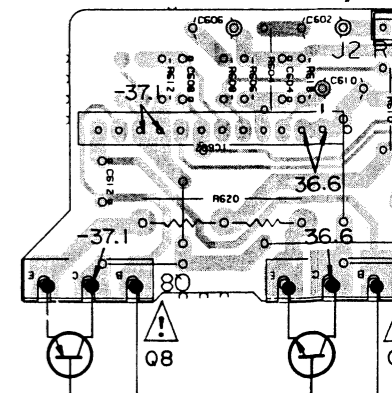
TO FRONT CONTROL A ASSEMBLY J9 (P19)

TO TUNER ASSEMBLY CN15 (P56)

TO PRO LOGIC ASSEMBLY J20 (P49)

TO AF ASSEMBLY PIN13 (P28)

REAR AMP assembly (A)



FROM PRO LOGIC ASSEMBLY J1: FROM AF ASSEMBLY CN13 (P27)

Q341 IC341 IC308 Q309 Q301-Q308
 Q346 Q342-Q344 Q310 IC301-IC307 IC309
 IC371 Q371-Q376 Q311 IC391 Q391

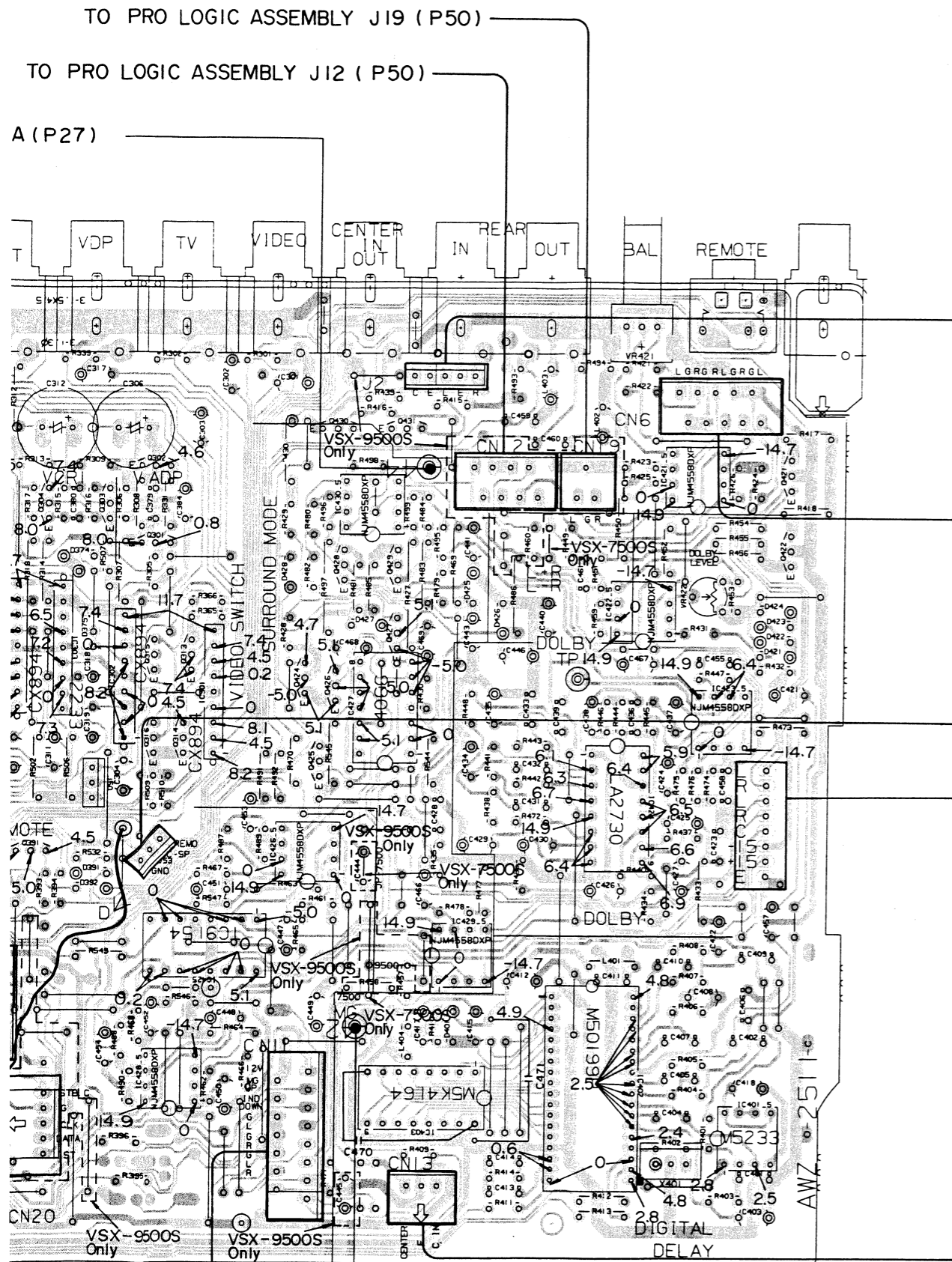
Q313-Q316 IC425 Q430 IC430 Q431
 Q424-Q429 IC427 IC426 Q425 IC429
 IC428 IC403

VR421 VR422
 IC421 Q421
 IC422 IC423 Q422
 IC424
 IC402 IC401

TO FRONT CONTROL A ASSEMBLY J10 (P19)

TO AF ASSEMBLY J5 (P27)

TO AF ASSEMBLY PIN14 (P28)



NOTE

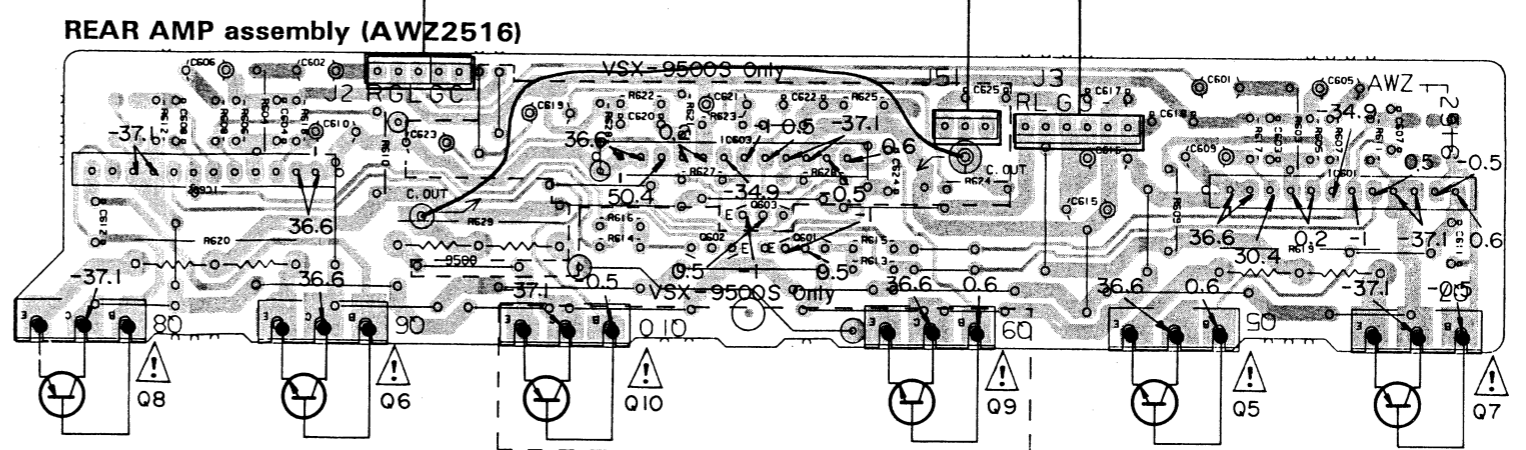
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊙ (double circles) shows negative terminal.
4. The diode terminal marked with ⊙ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



FROM PRO LOGIC ASSEMBLY J13 (P50) (VSX-9500 TYPE)
FROM AF ASSEMBLY CN13(P27) (VSX-7500 TYPE)

Q313 - Q316	Q430 IC430 Q431	VR421 VR422	IC421 Q421
IC425	Q424 - Q429 IC427		IC422 IC423 Q422
	IC426 Q425 IC429		IC424
	IC428 IC403		IC402 IC401

TO AF ASSEMBLY J5 (P27)

TO AF ASSEMBLY PIN 14 (P28)

TO MOTOR VOL ASSEMBLY J11 (P26)

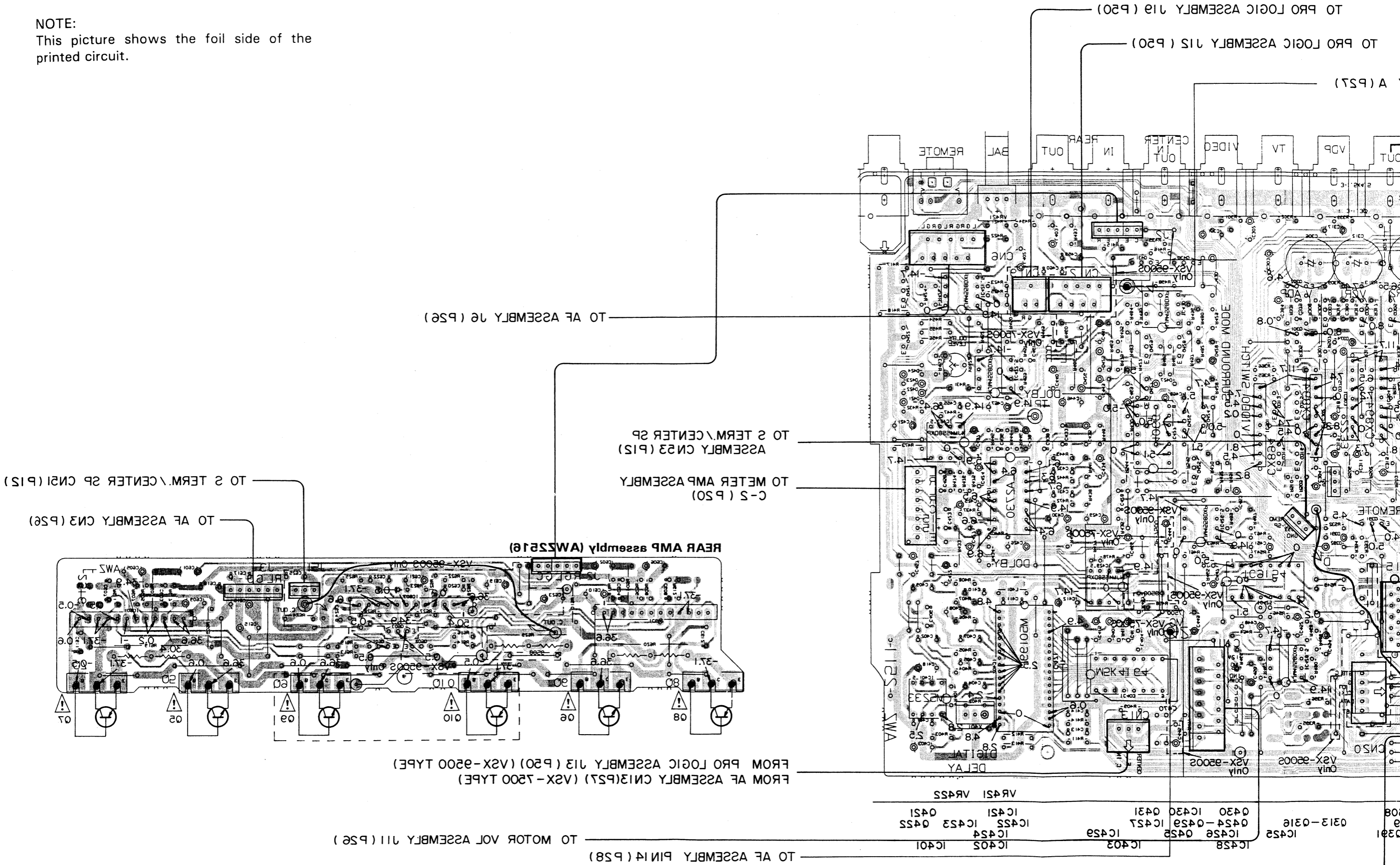
NOTE:
This picture shows the foil side of the printed circuit.

A

B

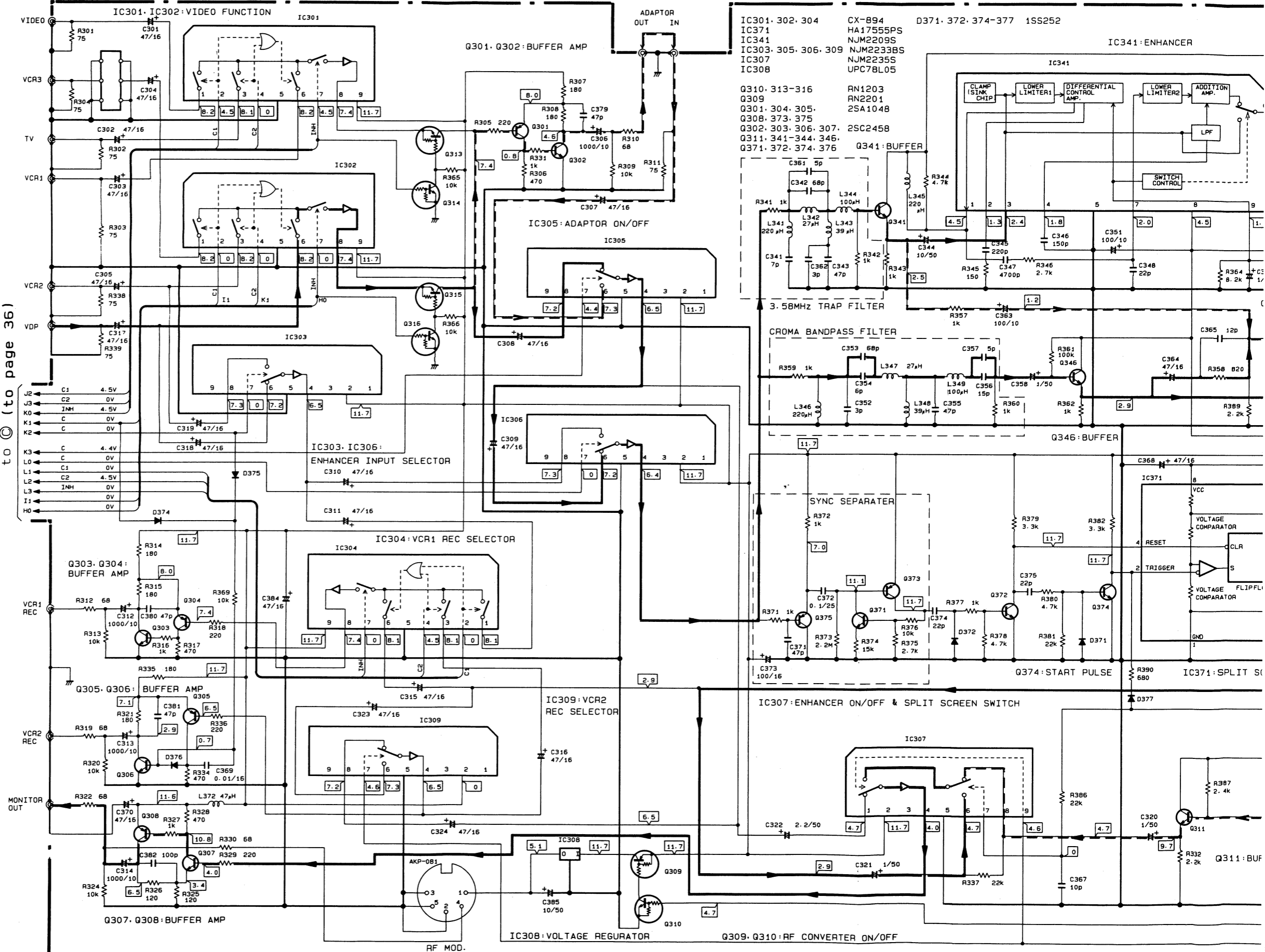
C

D



3.6 VIDEO/SUR/CONTROL assembly 2/2 (AWZ2511)

VIDEO/SUR/CONTRPL ASSEMBLY 2/2 (AWZ2511:VSX-9500S/KUC.SD/G) (AWZ2520:VSX-7500S/KUC.SD/G)



to © (to page 36)

A

B

C

D

1

2

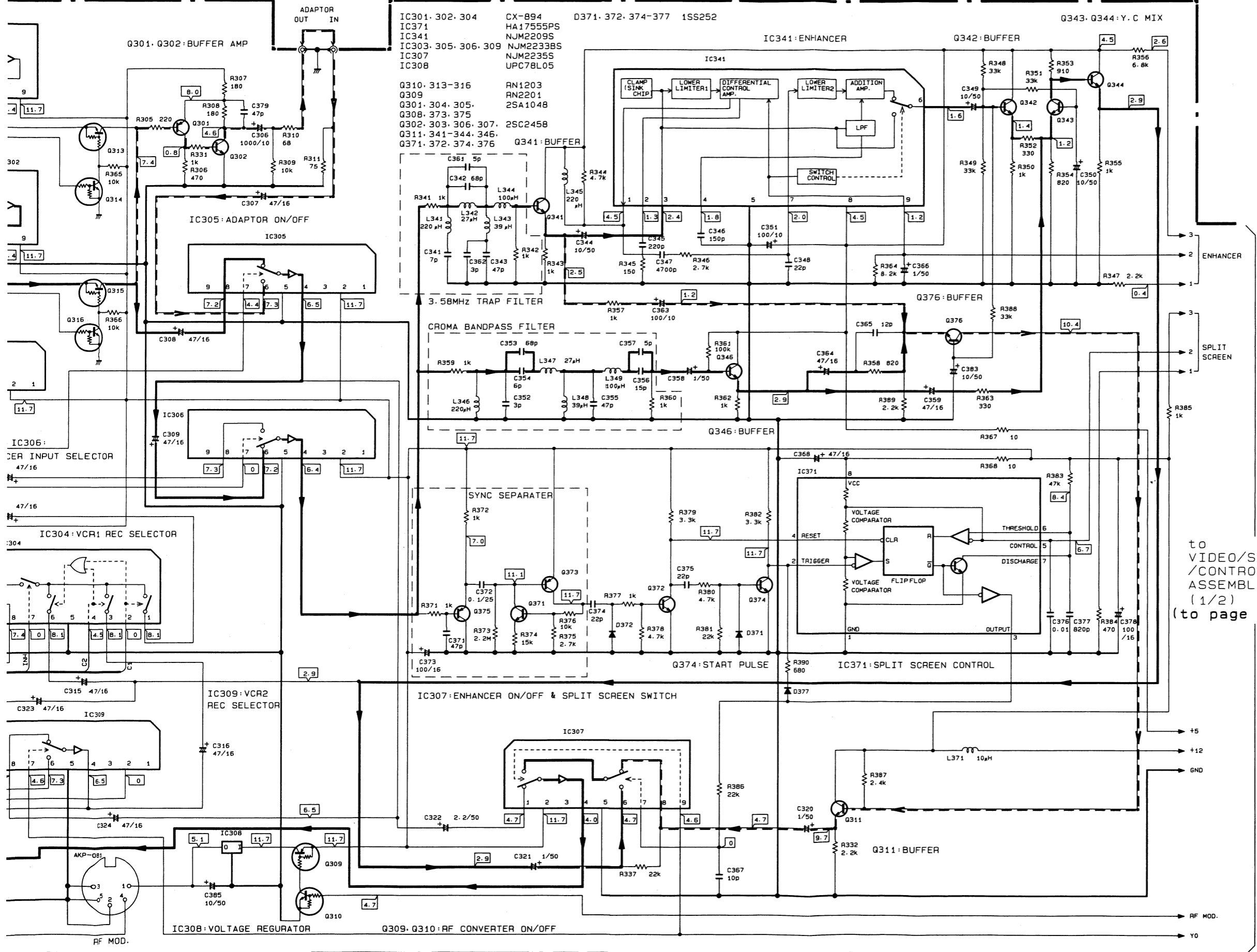
3

4

5

6

(AWZ2511:VSX-9500S/KUC.SD/G) (AWZ2520:VSX-7500S/KUC.SD/G)



to VIDEO/SUR CONTROL ASSEMBLY (1/2) (to page 36)

A
B
C
D

3.7 PRO LOGIC assembly (AWX1025)

(VSX-9500S type only)

PRO LOGIC ASSEMBLY (AWX1025)

A

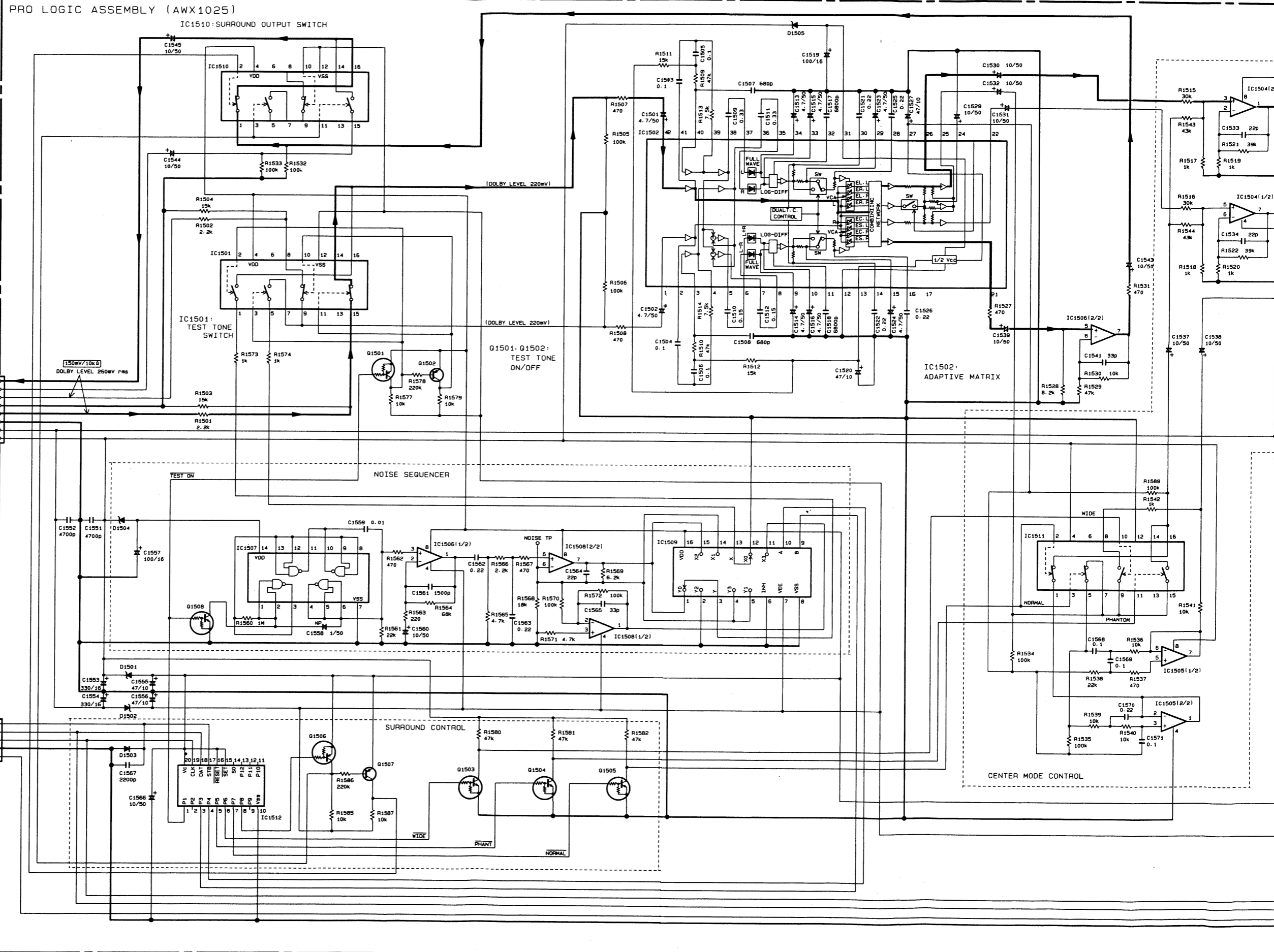
B

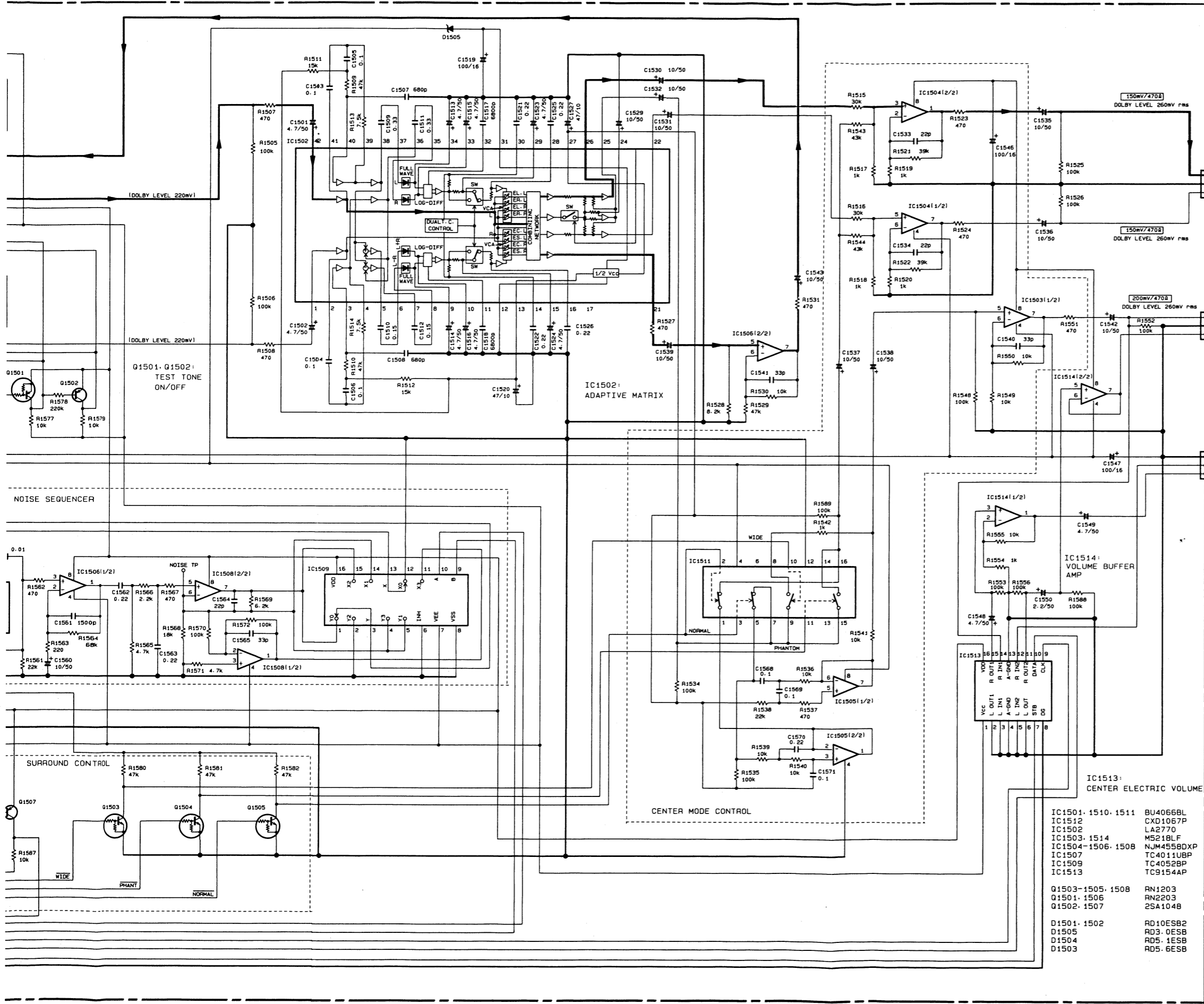
C

D

to VIDEO/SUR /CONTROL ASSEMBLY CN12 (to page 33)

to VIDEO/SUR /CONTROL ASSEMBLY CN20 (to page 36)





IC1502

PIN NO.	TERM. NAME
1	R IN
2	BUFFER OUT(R)
3	B.P.F. INPUT(R)
4	B.P.F. OUTPUT(R)
5	CONTROL OUT(C)
6	CONTROL IN(C)
7	CONTROL OUT(S)
8	CONTROL IN(S)
9	FULL WAVE OUT(S)
10	FULL WAVE OUT(C)
11	S/C LOG. DIFF AMP
12	GND
13	V. REF
14	S/C DUAL TIME
15	S/C TIMING(S)
16	S/C TIMING(I)
17	SURROUND OFF
18	N.C
19	N.C
20	N.C
21	S OUT
22	R OUT
23	CENTER ON/OFF
24	CENTER MODE
25	C OUT
26	L OUT
27	AC GND
28	R/L TIMING(F)
29	R/L TIMING(S)
30	R/L DUAL TIME
31	VCC
32	R/L LOG. DIFF AMP
33	FULL WAVE(I)
34	FULL WAVE(L)
35	CONTROL IN(R)
36	CONTROL OUT(R)
37	CONTROL IN(L)
38	CONTROL OUT(L)
39	B.P.F. OUTPUT(L)
40	B.P.F. IN(L)
41	BUFFER OUT(L)
42	L IN

- IC1501: 1510-1511 BU4066BL
 IC1512 CXD1067P
 IC1502 LA2770
 IC1503-1514 M5218LF
 IC1504-1506-1508 NUM4558DXP
 IC1507 TC4011UBP
 IC1509 TC4052BP
 IC1513 TC9154AP
- Q1503-1505: 1508 RN1203
 Q1501: 1505 RN2203
 Q1502: 1507 2SA1048
- D1501: 1502 RD10ESB2
 D1505 RD3: 0ESB
 D1504 RD5: 1ESB
 D1503 RD5: 6ESB

A

B

C

D

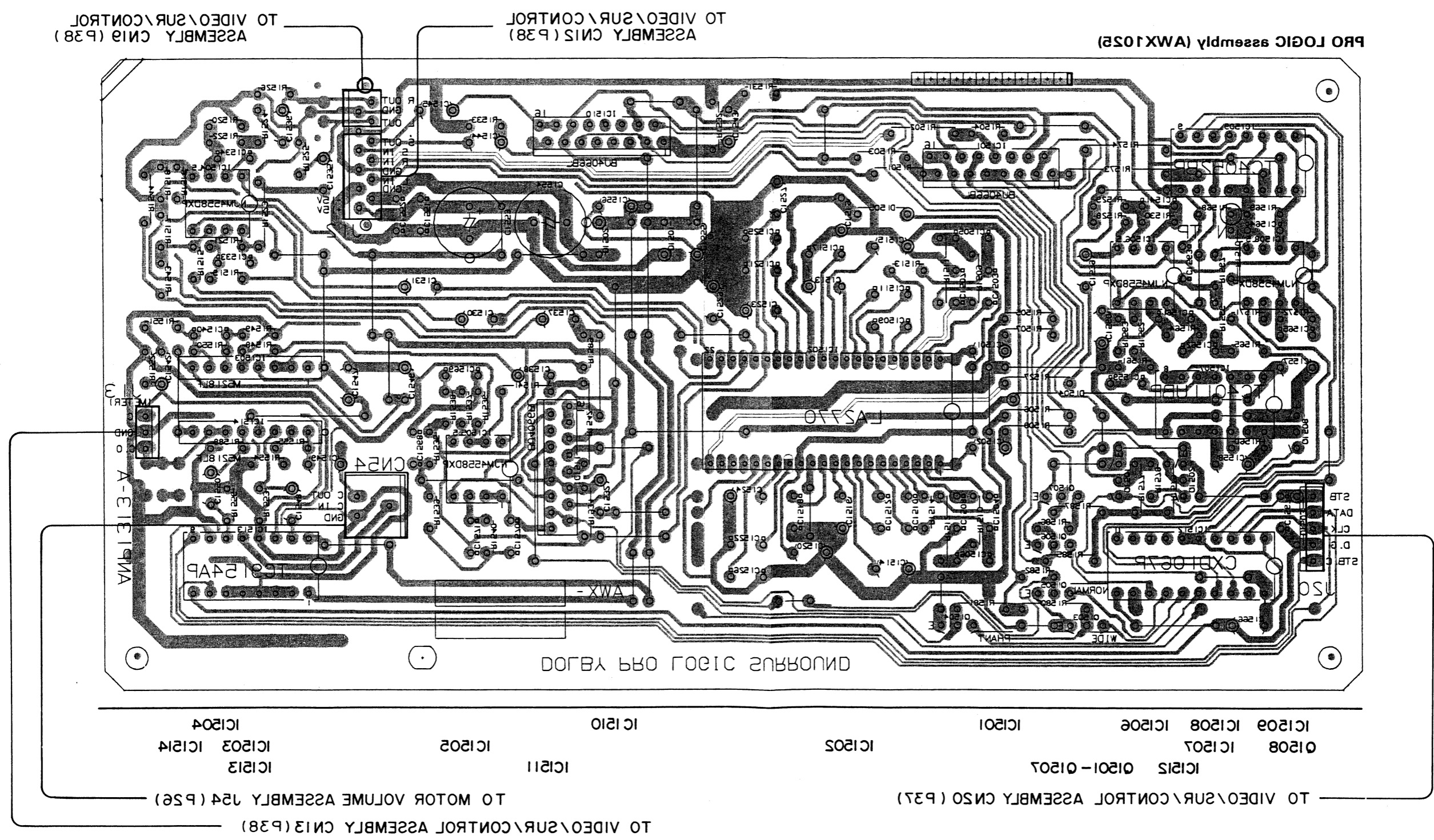
NOTE:
This picture shows the foil side of the
printed circuit.

A

B

C

D

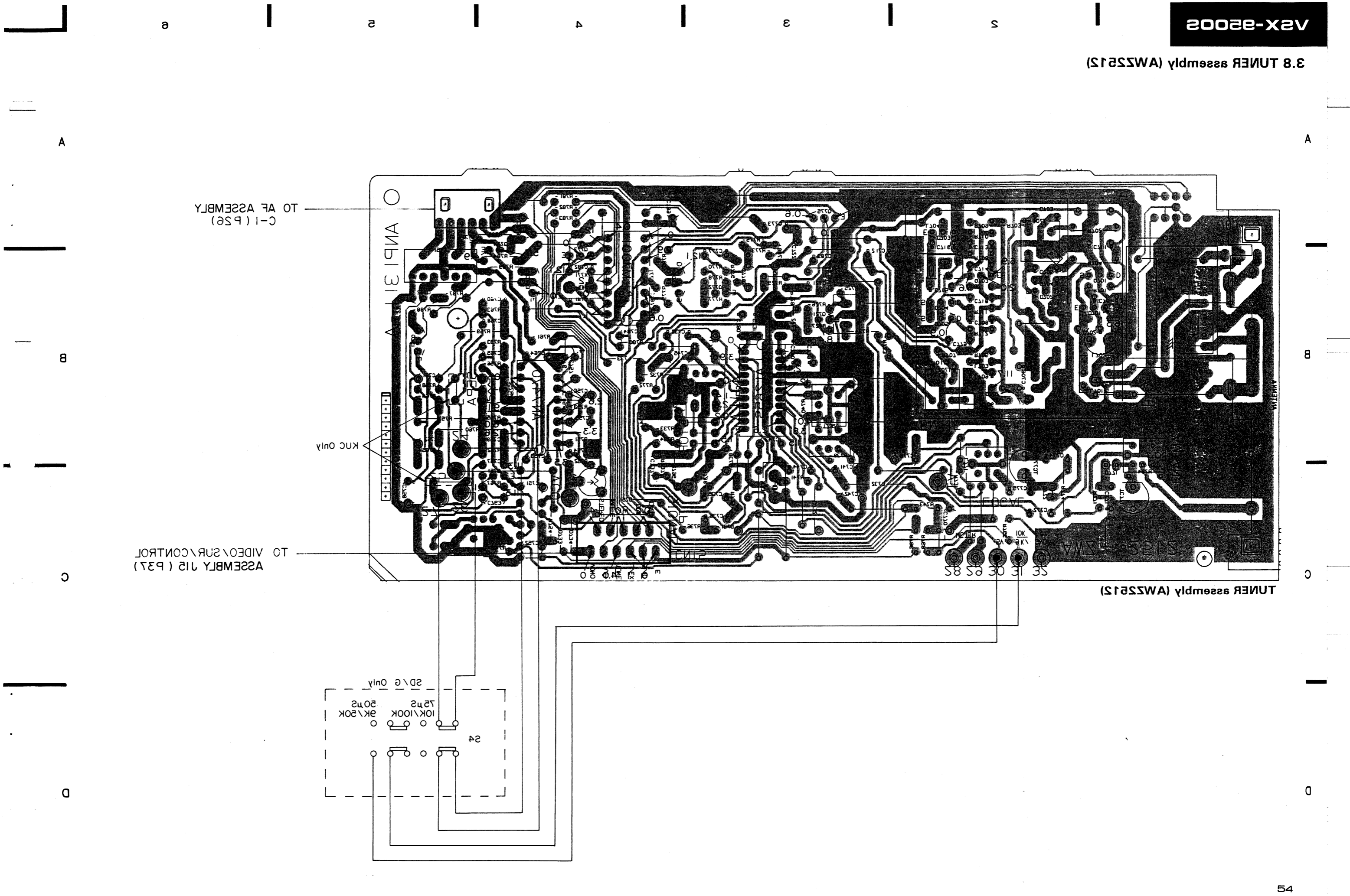
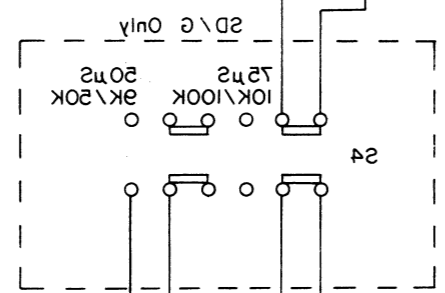
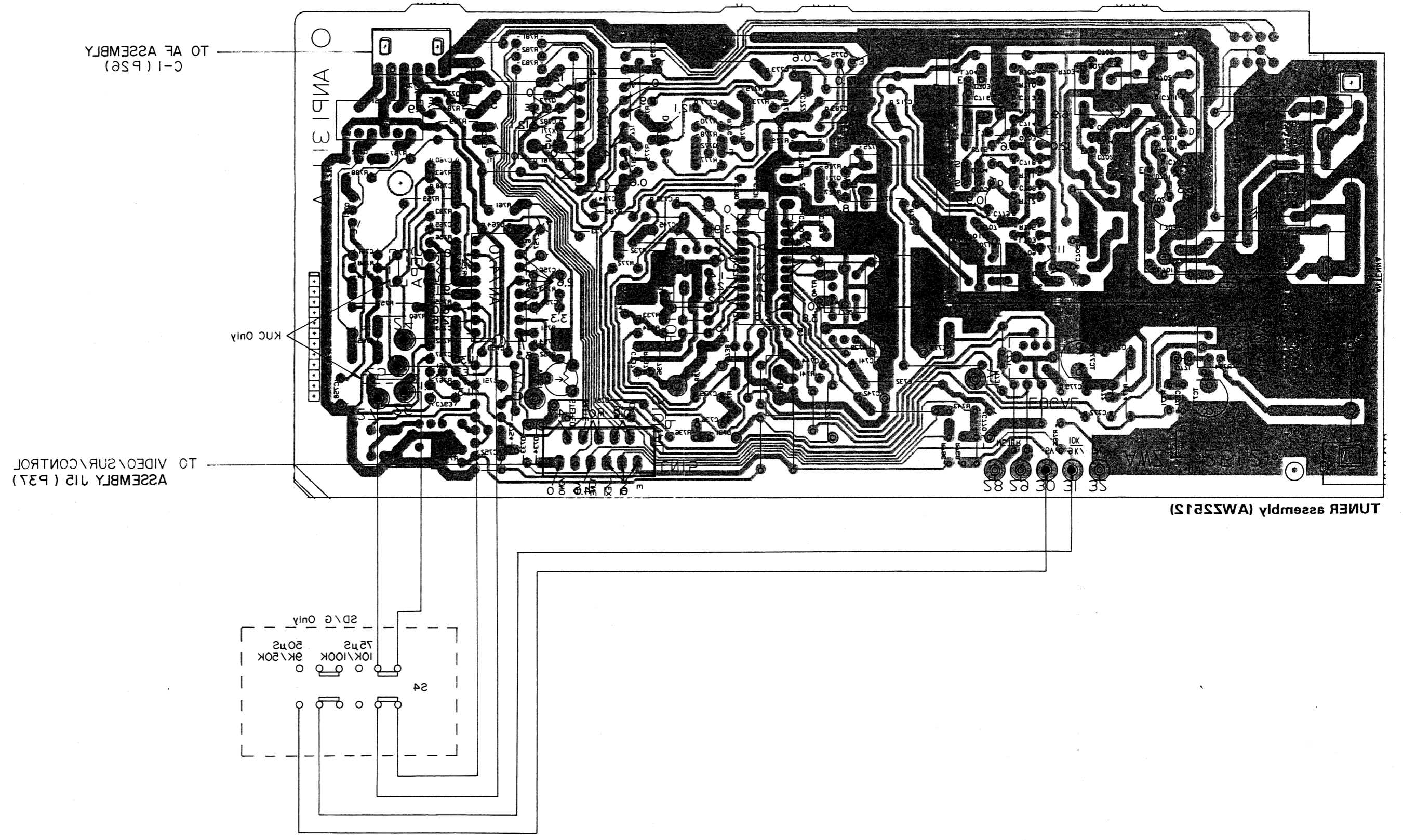


A

B

C

D

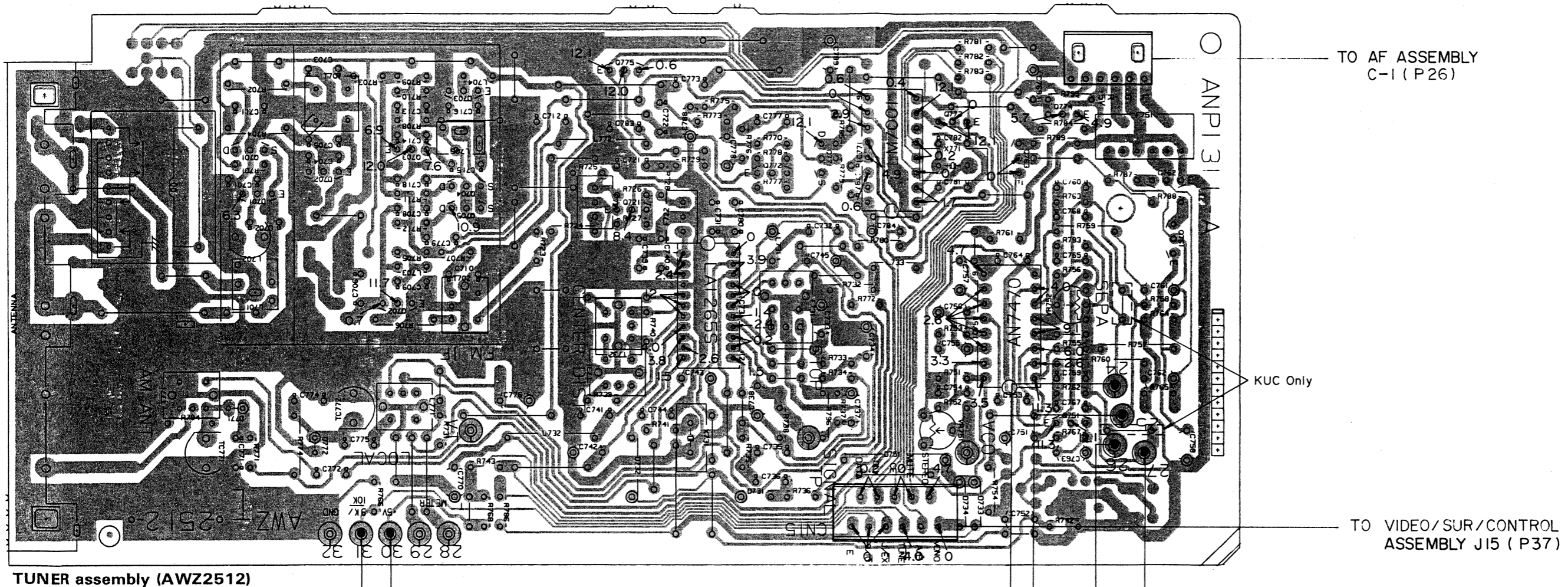


3.8 TUNER assembly (AWZ2512)

A

B

C



TUNER assembly (AWZ2512)

TO AF ASSEMBLY
C-1 (P 26)

KUC Only

TO VIDEO/SUR/CONTROL
ASSEMBLY J15 (P 37)

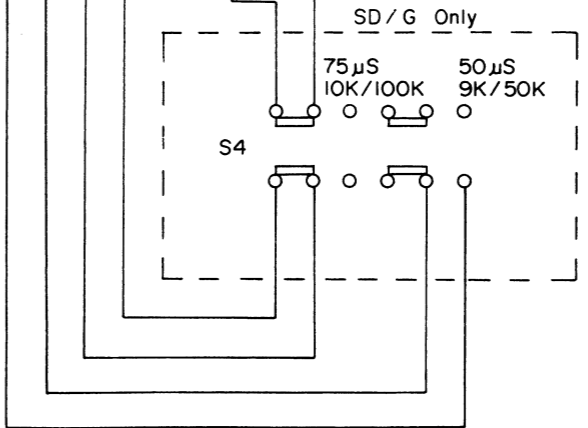
- NOTE
1. This P.C.B connection diagram is viewed from the parts mounted side.
 2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
	IC
	Switch
	Relay
	Coil
	Filter
	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊕ (double circles) shows negative terminal.
4. The diode terminal marked with ⊕ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



55

D

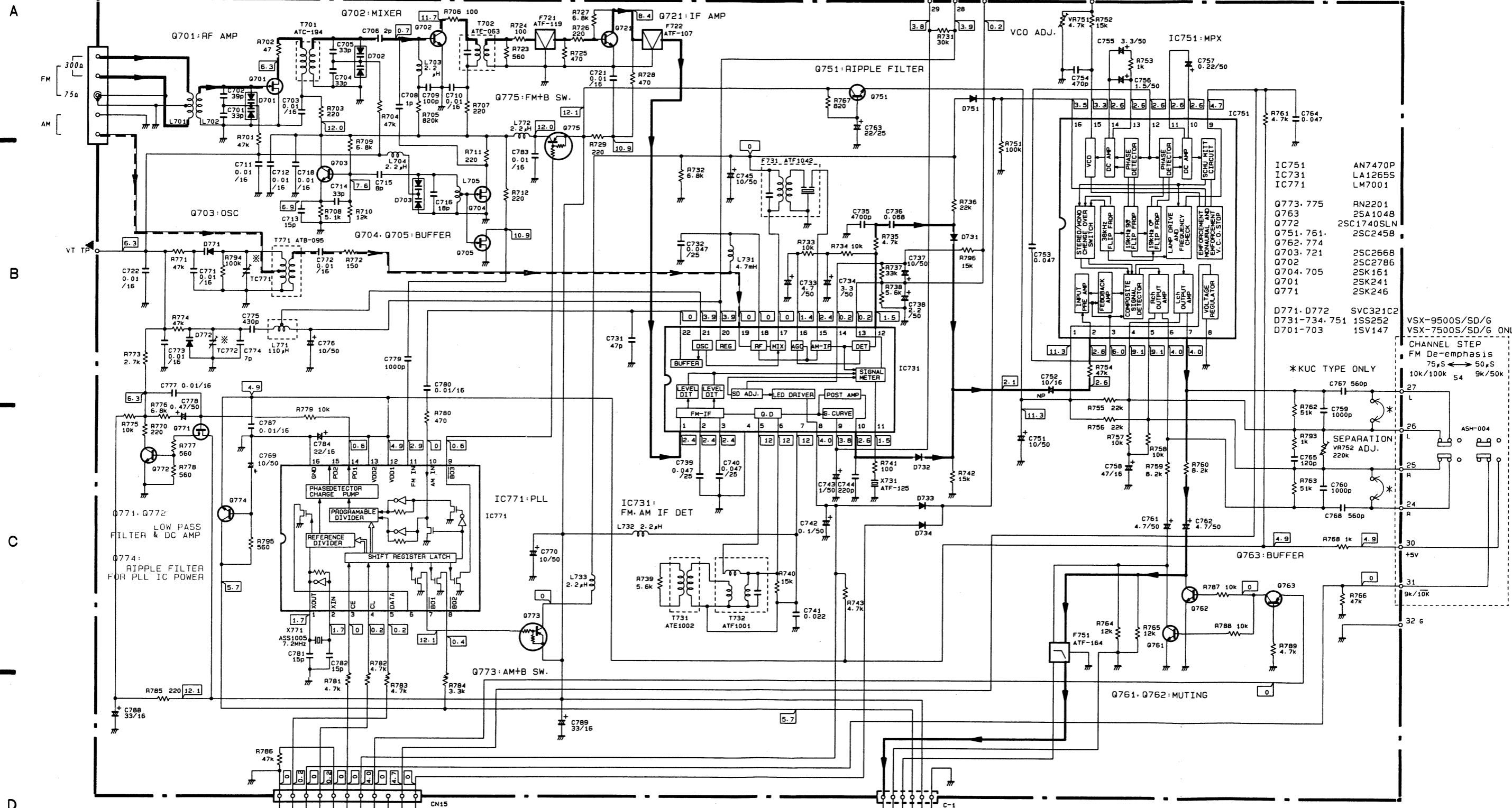
A

B

C

D

TUNER ASSEMBLY (AWZ2512)



- Q701: RF AMP
- Q702: MIXER
- Q703: OSC
- Q704, Q705: BUFFER
- Q707: FM+B SW.
- Q721: IF AMP
- Q751: RIPPLE FILTER
- Q771, Q772: LOW PASS FILTER & DC AMP
- Q774: RIPPLE FILTER FOR PLL IC POWER
- Q775: AM+B SW.
- Q763: BUFFER
- Q761, Q762: MUTING
- IC751: MPX
- IC731: FM-AM IF DET
- IC771: PLL

IC751	AN7470P
IC731	LA1265S
IC771	LM7001
Q773, 775	RN2201
Q763	2SA1048
Q772	2SC1740SLN
Q751, 761	2SC2458
Q762, 774	2SC2786
Q703, 721	2SC2668
Q702	2SC2786
Q704, 705	2SK161
Q701	2SK241
Q771	2SK246
D771, D772	SVC321C2
D731-734, 751	1SS252
D701-703	1SV147

VSX-9500S/SD/6
 VSX-7500S/SD/6 ONLY
 CHANNEL STEP
 FM De-emphasis
 75µs ← 50µs
 10k/100k S4 9k/50k
 *KUC TYPE ONLY

(to page 36)
to VIDEO/SUR/CONTROL ASSEMBLY J15

(to page 30)
to AF ASSEMBLY C-1

4. ELECTRICAL PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	56 × 10 ¹	561.....	RD1/4PS	⊙	⊙	J
47kΩ	47 × 10 ³	473.....	RD1/4PS	⊙	⊙	J
0.5Ω	0R5.....		RN2H	⊙	⊙	K
1Ω	010.....		RS1P	⊙	⊙	K

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

5.62kΩ	562 × 10 ¹	5621.....	RN1/4SR	⊙	⊙	⊙	F
--------	-----------------------	-----------	---------	---	---	---	---

Miscellaneous parts

P.C.BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.
	HEAD PHONE assembly	
	FUSE assembly	
	AF assembly	AWZ2507
	MOTOR VOL assembly	AWZ2509
	VIDEO/SUR/CONTROL assembly	AWZ2511
	TUNER assembly	AWZ2512
	FRONT CONTROL A assembly	AWZ2513
	FRONT CONTROL B assembly	AWZ2514
	METER AMP assembly	AWZ2515
	REAR AMP assembly	AWZ2516
	VOL IND assembly	
	S TERM./CENTER SP assembly	AWK1219
	PRO LOGIC assembly	AWX1025

OTHERS

Mark	Symbol & Description	Part No.
Δ	Q7,Q8,Q10 Transistor	2SA1263N
Δ	Q3,Q4 Transistor	2SA1302
Δ	Q5,Q6,Q9 Transistor	2SC3180N
Δ	Q1,Q2 Transistor	2SC3281
Δ	Power transformer (AC120V)	ATS1205
Δ	S1 Speaker impedamce selector switch	AKX1004
Δ	FU3,FU4 Fuse (6.3A/125V)	AEK-109
Δ	FU5,FU6 Fuse (1.25A/125V)	AEK-120
Δ	FU1 Fuse (10A/125V)	AEK-310
Δ	3P AC Outlet	AKP-515
Δ	AC Power cord	ADG1031
	Jumper plug	AKM1019

HEAD PHONE assembly

Mark	Symbol & Description	Part No.
	Jack (HEAD PHONE)	AKN1002

FUSE assembly

No parts are supplied with the FUSE assembly

AF assembly (AWZ2507)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC505	M5F79M15L
	IC153	M5201P
	IC151,IC152	M5218LF
	IC165	M5220L
	IC51	M5220P
	IC104	NJM4558DXP
	IC504	NJM78M56FA
	IC201,IC202	PA0016
	IC167	TC9154AP
	IC103	TC9162N
	IC105	TC9163N
	IC101,IC102	TC9164N
	IC168	TC9184P
	IC503	UPC78M05H
	IC502	UPC78M15H
	IC501	UPC7812H
	Q151,Q501,Q508,Q509,Q511	RN1201
	Q512	2SA1048
	Q207,Q208	2SA1145
	Q213,Q214	2SA1306
	Q201,Q202	2SA979

Mark	Symbol & Description	Part No.
	Q205,Q206,Q215,Q216,Q507	2SC2240
	Q101,Q102,Q502,Q503,Q505, Q506,Q513	2SC2458
	Q209,Q210	2SC2705
	Q211,Q212	2SC3298
	D514	D5SB20F
	D217 Zener diode	RD24EB
	D512 Zener diode	RD4.7ESB
	D165,D166 Zener diode	RD5.1ESB2
	D527 Zener diode	RD5.6ESB2
	D526 Zener diode	RD9.1EB
	D167,D168,D201-D216,D218, D219,D501-D505,D507,D515, D516,D521-D525,D528,D529, D531,D535	1SS252
	D508-D511,D517-D520	11E2
	D513	4D4B44

COILS & TRANSFORMERS

Mark	Symbol & Description	Part No.
	L201,L202 AF choke coil (0.7μH)	ATH1004
	L601,L602 AF choke coil (0.7μH)	ATH1011
	T501 Power transformer	ATT1015

RELAIIES

Mark	Symbol & Description	Part No.
	RY503,RY504 Relay	ASR-112
	RY501 Relay	ASR-512
	RY502,RY505 Relay	ASR1005

CAPACITORS

Mark	Symbol & Description	Part No.
	C515-C517 (0.01μF/AC125V)	ACG1003
	C503,C504 (8200μF/DC80)	ACH1106
	C505,C506 (6800μF/DC42)	ACH1110
	C229	CCCSL020C500
	C215,C216	CCCSL101K500
	C225,C226	CCCSL151J50
	C230	CCDSL020C500
	C217,C218	CCDSL101K500
	C171,C172	CCDSL680K500
	C85-C70,C101-C114	CCMSL101J50
	C211-C214	CCMSL680J50
	C219,C220	CEANP2R2M50
	C64,C169,C170,C518,C523, C524,C526	CEAS010M50
	C231-C234	CEAS100M100
	C51,C52,C179,C180,C508, C509,C512	CEAS100M25
	C521,C527	CEAS100M50
	C510	CEAS102M25
	C514	CEAS102M35

Mark	Symbol & Description	Part No.
	C61,C62,C115-C118,C121, C122,C151,C152,C154,C157, C161,C162,C167,C168	CEAS2R2M50
	C201,C202,C227	CEAS220M50
	C502	CEAS221M10
	C513	CEAS222M35
	C153	CEAS470M16
	C55,C56,C209,C210,C501	CEAS471M6
	C522,C525	CEHAQ010M50
	C507,C511	CEHAQ470M25
	C221-C224,C613,C614	CFTXA104J50
	C123,C124,C177,C178,C181, C182	CFTXA153J50
	C57,C58	CFTXA243J50
	C155	CFTXA333J50
	C59,C60,C183,C184	CFTXA823J50
	C53,C54	CKDYB331K50
	C125,C126,C173,C174,C520	CKDYF103Z50
	C519	CKDYF473Z50
	C63	CKDYX104M25
	C205,C206	CKDYB471K50
	C158	CKMYF222Z50
	C207,C208	CMA270J500
	C203,C204	CQMA152K50
	C175,C176	CQMA272J50
	C156	CQMA332J50
	C119,C120	CQMA392K50
	C191,C192	CQMA472J50

RESISTORS

Mark	Symbol & Description	Part No.
	R508 (2.2M, 1/2W)	ACN-209
	R259,R260 (0.27, 5W × 2)	ACN1018
	R217,R218	RDR1/2PM123J
	R201-R204	RDR1/4PM□□□J
	R211-R216,R239-R246	RD1/4PMF□□□J
	R251-R258,R261-R264, R516-R518,R543,R544,R546, R547,R621-R624	RD1/4PM□□□J
	R207-R210,R219-R224	RD1/4PM□□□J
	R231-R234,R247-R250	RFA1/4PS□□□J
	R269-R272	RS1LMF100J
	R277,R541,R542	RS2LMF□□□J
	R505,R506	RS3LMF□□□J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	6P Pin jack (TAPE 2, VIDEO, TV, VDP, VCR 1-3, PRE OUT, POWER)	AKB1008
	6P Pin jack (TAPE 1, LINE)	AKB1024
	2P Pin jack (TUNER)	AKB1039
	2P Pin jack (PHONO)	AKB1059

Mark	Symbol & Description	Part No.
	4P Speaker terminal	AKE1007
	8P Speaker terminal	AKE1011
	CN3 6P Jumper connector	KPC6
	CN1 7P Jumper connector	KPE7

MOTOR VOL assembly (AWZ2509)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC154	M5220L
	IC671	TA7291S

COIL

Mark	Symbol & Description	Part No.
	F671 EMI filter	ATF1010

CAPACITORS

Mark	Symbol & Description	Part No.
	C159,C160	CEAS2R2M50
	C675	CEJA100M50
	C163,C164	CKDYF103Z50
	C165,C166	CKMYB331K50

RESISTORS

Mark	Symbol & Description	Part No.
	VR671 Variable resistor with motor (100kΩ × 2, 50kΩ × 3)	ACX1016
	Other resistor	RD1/8PM□□□J

VIDEO/SUR/CONTROL assembly (AWZ2511)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC301,IC302,IC304	CX-894
	IC371	HA17555PS
	IC424	LA2730
	IC403	LM3364K-15
	IC402	M50199P
	IC401	M5233P
	IC341	NJM2209S
	IC303,IC305,IC306,IC309	NJM2233BS
	IC307	NJM2235S
	IC421-IC423,IC426, IC428-IC430	NJM4558DXP
	IC391	PDG042
	IC427	TC4066BP
	IC425	TC9154AP
	IC308	UPC78L05
	Q310,Q313-Q316,Q427	RN1203
	Q309	RN2201
	Q424-Q426	RN2203
	Q301,Q304,Q305,Q308,Q373, Q375,Q431	2SA1048

Mark	Symbol & Description	Part No.
	Q302,Q303,Q306,Q307,Q311, Q341-Q344,Q346,Q371,Q372, Q374,Q376,Q391	2SC2458
	Q421,Q422,Q428-Q430	2SC2878
	D425,D426 Zener diode	RD5.1ESB
	D371,D372,D374-D377, D391-D393,D396,D401, D421-D424,D427,D428,D430	1SS252

COILS

Mark	Symbol & Description	Part No.
	L371 Axial inductor (10μH)	LAU100K
	L344,L349,L391,L401,L404 Axial inductor (100μH)	LAU101K
	L341,L345,L346 Axial inductor (220μH)	LAU221K
	L342,L347 Axial inductor (27μH)	LAU270K
	L343,L348 Axial inductor (39μH)	LAU390K
	L372 Axial inductor (47μH)	LAU470K
	L402,L403 inductor (8.2mH)	LTA822J

CAPACITORS

Mark	Symbol & Description	Part No.
	C392 (0.047F/5.5V)	ACH1011
	C346	CCCSL151J50
	C345	CCCSL221J50
	C374	CCMCH220J50
	C352,C362	CCMSL030C50
	C357,C361	CCMSL050C50
	C354	CCMSL060D50
	C341	CCMSL070D50
	C367	CCMSL100D50
	C382	CCMSL101J50
	C365	CCMSL120J50
	C356	CCMSL150J50
	C348,C375,C461	CCMSL220J50
	C343,C355,C371,C379,C380, C381,C455	CCMSL470J50
	C342,C353	CCMSL680J50
	C408	CEANP100M16
	C402	CEANP4R7M35
	C435	CEASR33M50
	C320,C321,C358,C366, C424-C426,C434,C437,C438, C457	CEAS010M50
	C344,C349,C350,C383,C385, C393,C422,C427	CEAS100M50
	C351,C363,C391,C412,C418, C429,C443,C446	CEAS101M10
	C373,C378,C440,C441	CEAS101M16
	C306,C312-C314	CEAS102M10
	C322,C444,C445,C451-C454	CEAS2R2M50

Mark	Symbol & Description	Part No.
	C430,C467	CEAS220M16
	C447-C450,C466,C468,C469	CEAS4R7M50
	C301-C305,C307-C311, C315-C319,C323,C324,C359, C364,C368,C370,C384,C403, C415	CEAS470M16
	C417	CEAS471M10
	C421	CEJA100M16
	C401	CFTXA103J50
	C404,C407,C433	CFTXA104J50
	C459,C460	CFTXA183J50
	C432,C439	CFTXA333J50
	C413,C414	CFTXA823J50
	C369,C394	CGMYX103M16
	C376	CKCYB103K50
	C347	CKCYB472K50
	C411	CKCYF473Z50
	C372	CKCYX104M25
	C471	CKDYB103K50
	C470	CKDYX223M25
	C436	CKMYB471K50
	C431	CQMA472K50
	C406,C409,C458	CQMA562K50
	C423,C428	CQMA682K50
	C405,C410	CQSA561J50
	C377	CQSA821J50

RESISTORS

Mark	Symbol & Description	Part No.
	VR421 (100k)	ACS1020
	VR422 (22k)	VRTB6VS223
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	1P Pin jack (VCR 1)	AKB1010
	3P Pin jack (VDP, TV, VIDEO)	AKB1050
	6P Pin jack (VCR 2, ADAPTOR, VCR 3)	AKB1058
	6P Pin jack (REAR,CENTER)	AKB1093
	2P Mini jack (REMOTE)	AKN1006
	5P DIN socket (RF MOD)	AKP-081
	X401 Ceramic resonator (3.27MHz)	ASS1016
	X391 Ceramic resonator (4.19MHz)	ASS1022
	CN13 3P Jumper connector	KPC3
	CN20 5P Jumper connector	KPC5
	CN6 10P Jumper connector	KPE10
	CN9,CN11 12P Jumper connector	KPE12
	CN5,CN10 15P Jumper connector	KPE15
	CN19 3P Jumper connector	KPE3
	CN12 8P Jumper connector	KPE8

TUNER assembly (AWZ2512)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC751	AN7470P
	IC731	LA1265S
	IC771	LM7001
	Q773,Q775	RN2201
	Q763	2SA1048
	Q772	SC1740SLN
	Q751,Q761,Q762,Q774	2SC2458
	Q703,Q721	2SC2668
	Q702	2SC2786
	Q704,Q705	2SK161
	Q701	2SK241
	Q771	2SK246
	D771,D772	SVC321C2
	D731-D734,D751	1SS252
	D701-D703	1SV147

COILS & TRANSFORMERS

Mark	Symbol & Description	Part No.
	T771 AM antenna transformer	ATB-095
	L771 AM OSC coil (110 μ H)	ATB-100
	T701 FM RF transformer	ATC-194
	L701 FM coil	ATC1001
	L702 FM coil	ATC1002
	L705 FM coil	ATC1003
	T702 FM coupling transformer	ATE-063
	T732 FM detector transformer	ATE1001
	T731 FM detector transformer	ATE1002
	F722 FM Ceramic filter	ATF-107
	F721 FM Ceramic filter	ATF-119
	F751 Low pass filter	ATF-164
	F731 AM Ceramic filter	ATF1042
	L703,L704,L732,L733,L772 Axial inductor (2.2 μ H)	LAU2R2M
	L731 Inductor (4.7mH)	LTA472J

CAPACITORS

Mark	Symbol & Description	Part No.
	TC771,TC772	ACM-015
	C708	CCDCH010C50
	C706	CCDCH020C50
	C701,C704,C705	CCDRH330J50
	C702	CCDRH390J50
	C744	CCDSL221J50
	C716	CCDTH180J50
	C774	CCMCH070D50
	C715	CCMCH080D50
	C713,C781,C782	CCMCH150J50
	C714	CCMCH330J50
	C709	CCMSL101J50
	C765	CCMSL121J50
	C731	CCMSL470J50
	C752	CEANP100M16

Mark	Symbol & Description	Part No.
C757		CEASR22M50
C778		CEASR47M50
C742		CEASOR1M50
C743		CEASO10M50
C756		CEAS1R5M50
C737,C745,C751,C769,C770, C776		CEAS100M50
C738		CEAS2R2M50
C784		CEAS220M16
C763		CEAS220M25
C734,C755		CEAS3R3M50
C788,C789		CEAS330M16
C733,C761,C762		CEAS4R7M50
C758		CEAS470M16
C736		CFTXA683J50
C703,C710-C712,C718,C721, C722,C771-C773,C777,C780, C783,C787		CGMYX103M16
C735		CKCYB472K50
C753,C764		CKCYF473Z50
C732,C739,C740		CKCYX473M25
C741		CKDYF223Z50
C779		CKMYB102K50
C759,C760		CQMA102J50
C767,C768		CQMA561K50
C775		CQSA431J50
C754		CQSA471J50

RESISTORS

Mark	Symbol & Description	Part No.
R752		RN1/4PC1502F
VR752	Semi-fixed resistor (220k)	VRTB6VS224
VR751	Simi-fixed resistor (4.7k)	VRTB6VS472
	Other resistors	RD1/8PM□□□J

OTHER

Mark	Symbol & Description	Part No.
	4P Antenna terminal	AKA1003
X771	Crystal resonator (7.2MHz)	ASS1005
X731	Ceramic resonator (450kHz)	ATF-125
CN15	11P Jumper connector	KPE11

FRONT CONTROL A assmby (AWZ2513)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
IC801		PDG041
Q801		RN1203
Q812		RN2203
Q802-Q811		2SC2458
D801-D817		1SS252

COIL

Mark	Symbol & Description	Part No.
L801	Axial inductor (10μH)	LAU100K

SWITCHES

Mark	Symbol & Description	Part No.
S815-S822,S825,S827-S830, S838-S844,S846-S849, S852-S855,S857-S860,S863, S864	Tact switch	ASG-711
S801-S814,S826,S834-S837, S845,S850,S851,S856,S861, S862,S865		ASG1029

CAPACITORS

Mark	Symbol & Description	Part No.
C801,C802		CCDCH101J50
C807		CEJAOR1M50
C803,C805,C806		CEJA100M16

RESISTORS

Mark	Symbol & Description	Part No.
VR802	Variable resistor (10k)	ACS1021
VR801	Variable resistor (10k)	ACS1022
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
V801	Fluorescent indicator tube	AAV1080
X801	Seramic oscillator (503kHz)	ASS1004
	REMOCON REC unit	AXX1010

FRONT CONTROL B assembly (AWZ2514)

SWITCHES

Mark	Symbol & Description	Part No.
S823,S824,S831-S833,S866, S867	Tact switch	ASG1029

METER AMP assembly (AWZ2515)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
IC631-IC633		M5218LF
Q631-Q635		2SC2458
D641-D645	Zener diode	RD5.6ESB3
D636-D640		1SS252

CAPACITORS

Mark	Symbol & Description	Part No.
C631-C635		CEASR47M50

RESISTORS

Mark	Symbol & Description	Part No.
	All resistors	RD1/8PM□□□J

OTHER

Mark	Symbol & Description	Part No.
	CN18 5P Jumper connector	KPE5

REAR AMP assembly (AWZ2516)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC601-IC603	UPC1270H
	Q601-Q603	2SC2458

CAPACITORS

Mark	Symbol & Description	Part No.
	C607,C608,C622 C615,C616,C623 C601,C602,C619 C609,C610 C605,C606,C621	CCMSL270J50 CEAS100M50 CEAS2R2M50 CEHAQ100M50 CEHAQ101M10
	C611,C612,C624 C625 C603,C604,C620 C617,C618	CFTXA333J50 CKDYF103Z50 CKMYB102K50 CKMYB471K50

RESISTORS

Mark	Symbol & Description	Part No.
	R619,R620,R629 (0.22, 2W × 2)	ACN-131
	Other resistors	RD1/8PM□□□J

VOL IND assembly (AWZ2517)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	D761 LED	AEL1053

OTHERS

Mark	Symbol & Description	Part No.
	Terminal board	AKF1006

S TERM./CENTER SP assembly (AWK1219)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC901,IC902 IC903,IC904 IC906 IC905	CX-894 NJM2233BS NJM79M05FA TC4081BP
	Q926 Q901,Q904,Q907,Q908,Q912, Q915,Q916,Q920,Q923 Q903,Q910,Q918	RN1201 2SA1048 2SC1740S
	Q902,Q905,Q906,Q909,Q911, Q913,Q914,Q917,Q919,Q921, Q922 Q924,Q925	2SC2458 2SC2878
	D901-D924	1SS252

COIL

Mark	Symbol & Description	Part No.
	L901 AF Choke coil (0.7μH)	ATH1011

RELAY

Mark	Symbol & Description	Part No.
	RY901 Relay	ASR1005

CAPACITORS

Mark	Symbol & Description	Part No.
	C931-C933 C911,C913,C915 C912,C914,C916 C910,C918 C905,C919,C920,C925	CCMSL020C50 CCMSL070D50 CCMSL080D50 CEAS010M50 CEAS101M16
	C939 C930 C901-C904,C907-C909,C917, C921-C924 C926	CEAS470M16 CEAS2R2M50 CEAS470M16 CFTXA104J50
	C934-C936 C927-C929 C937,C938	CKCYX104M25 CKDYF103Z50 CCMSL680J50

RESISTORS

Mark	Symbol & Description	Part No.
	R958,R959	RD1/4PMF4R7J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	2P Speaker terminal (Center SP)	AKE-058
	Mini jack (MULTI ROOM)	AKN1020
	4P Mini DIN socket (VDP, VCR1-2, MONITOR)	AKP1016
	CN51-CN53 3P Jumper connector	KPC3
	CN60 12P Jumper connector	KPE12

PRO LOGIC assembly (AWX1025)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC1501,IC1510,IC1511	BU4066BL
	IC1512	CXD1067P
	IC1502	LA2770
	IC1503,IC1514	M5218LF
	IC1504-IC1506,IC1508	NJM4558DXP
	IC1507	TC4011UBP
	IC1509	TC4052BP
	IC1513	TC9154AP
	Q1503-Q1505,Q1508	RN1203
	Q1501,Q1506	RN2203
	Q1502,Q1507	2SA1048
	D1501,D1502 Zener diode	RD10ESB2
	D1505 Zener diode	RD3.0ESB
	D1504 Zener diode	RD5.1ESB
	D1503 Zener diode	RD5.6ESB

CAPACITORS

Mark	Symbol & Description	Part No.
	C1533,C1534,C1564	CCMSL220J50
	C1540,C1541,C1565	CCMSL330J50
	C1513-C1516,C1523,C1524	CEANL4R7M50
	C1558	CEANP010M50
	C1529-C1532,C1535-C1539	CEAS100M50
	C1542-C1545,C1560,C1566	
	C1519,C1546,C1547,C1557	CEAS101M16
	C1550	CEAS2R2M50
	C1553,C1554	CEAS331M16
	C1501,C1502,C1548,C1549	CEAS4R7M50
	C1520,C1527,C1555,C1556	CEAS470M10
	C1559	CFTXA103J50
	C1503-C1506,C1568,C1569, C1571	CFTXA104J50
	C1510,C1512	CFTXA154J50
	C1521,C1522,C1525,C1526, C1562,C1563,C1570	CFTXA224J50
	C1509,C1511	CFTXA334J50
	C1567	CKDYB222K50
	C1561	CKMYB152K50
	C1551,C1552	CKMYF472Z50
	C1507,C1508	CQMA681J50
	C1517,C1518	CQMA682J50

RESISTORS

Mark	Symbol & Description	Part No.
	All resistors	RD1/8PM□□□J

OTHER

Mark	Symbol & Description	Part No.
	CN54 3P Jumper connector	KPE3

5. ADJUSTMENTS

5.1 TUNER SECTION

FM Tuner section

- Connect the FM signal generator (FM SG) to the FM ANTENNA 300Ω terminal through a 300Ω dummy antenna.
- Set the AUTO/MANUAL TUNING selector switch to the MANUAL position and the FUNCTION switch to the FM.

FM MONO ADJUSTMENT

Step	FM SG (1kHz±75kHz dev.)		Frequency display	Adjustment point	Adjustment procedure
	Frequency	Level			
1	No signal		87.5MHz	—	Check TP-VT (3.4±1.5V) of tuner assembly.
2			108MHz	—	Check TP-VT (8.7 ^{+2.5V} _{-2.0V}) of tuner assembly.
3	98MHz	20~30dB	98MHz	T701,L702, T702	Set the output from SIGNAL TP of assembly to maximum level.
4	98MHz	60dB	98MHz	T732	Adjust so that voltage between pins 28 and 29 (T METER) of assembly is within ±10mV.
5	98MHz	60dB	98MHz	T731	Minimize distortion.
6	Repeat steps 4 and 5 until both specification ratings are satisfied.				

FM MPX ADJUSTMENT

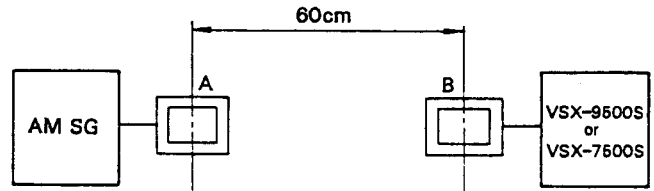
7	98MHz	80dB	98MHz	VR751	Adjust the frequency at pin TP-VCO of tuner assembly to 76.0kHz (±100Hz)
	No modulation				
8	98MHz	80dB	98MHz	T702	Minimize distortion in both left and right channel outputs (adjust T702 to within ±90°)
	Stereo modulation*				
9	98MHz	60dB	98MHz	VR752	Maximize separation.
	Stereo modulation*				
10	98MHz	10dB	98MHz	—	Confirm that TUNED IND and STEREO IND are extinguished.
	Stereo modulation*				
* Stereo modulation:Main 1kHz L+R±68.25kHz dev. Pilot 19kHz±6.75kHz dev.					

AM (MW) Tuner section

- Connect loop antenna to the AM signal generator (AM SG) and connect the LOOP antenna (of the set) to AM ANTANNA terminal.
- Set the FUNCTION switch to the AM (MW).

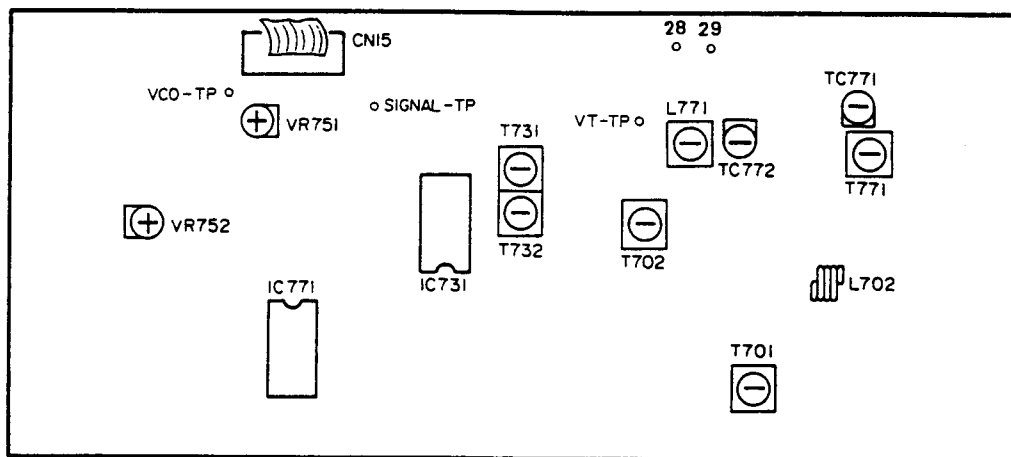
Step	AM SG (400Hz, 30% MOD)		Frequency display	Adjustment point	Adjustment procedure
	Frequency	Level			
1	No signal		530kHz	L771	Set TP-VT of tuner assembly to 1.2V ($\pm 0.05V$)
2			1700kHz	TC772	Set TP-VT of tuner assembly to 10.0V ($\pm 0.1V$)
3	Repeat steps 1 and 2 until both specification ratings are satisfied.				
4	600kHz	40dB	600kHz	T771	Set the output from TP-SIGNAL of tuner assembly to maximum level.
5	1400kHz	40dB	1400kHz	TC771	
6	Repeat steps 4 and 5 until both specification ratings are satisfied.				
7	1000kHz	60dB	1000kHz		Confirm that TUNER IND becomes lit.

- The distance between AM SG side loop antenna A and the receiver side (VSX-9500S or VSX-7500S) loop antenna B, that is, from the center of A side loop antenna to that of B side loop antenna should be 60cm.



Adjust by making this space between windings of a coil wider or closer with a spatula.

Spatula
Use a spatula whose an edges is thin.

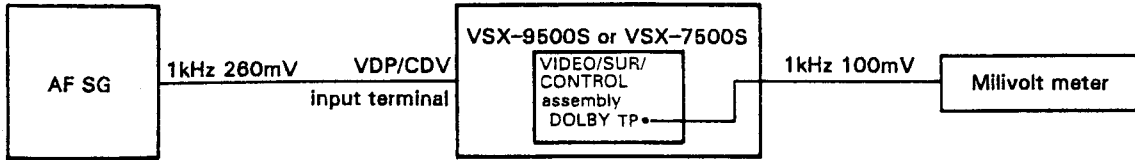


TUNER assembly (AWZ2512)

5.2 SURROUND AMP SECTION

• SURROUND LEVEL ADJUSTMENT Preparation

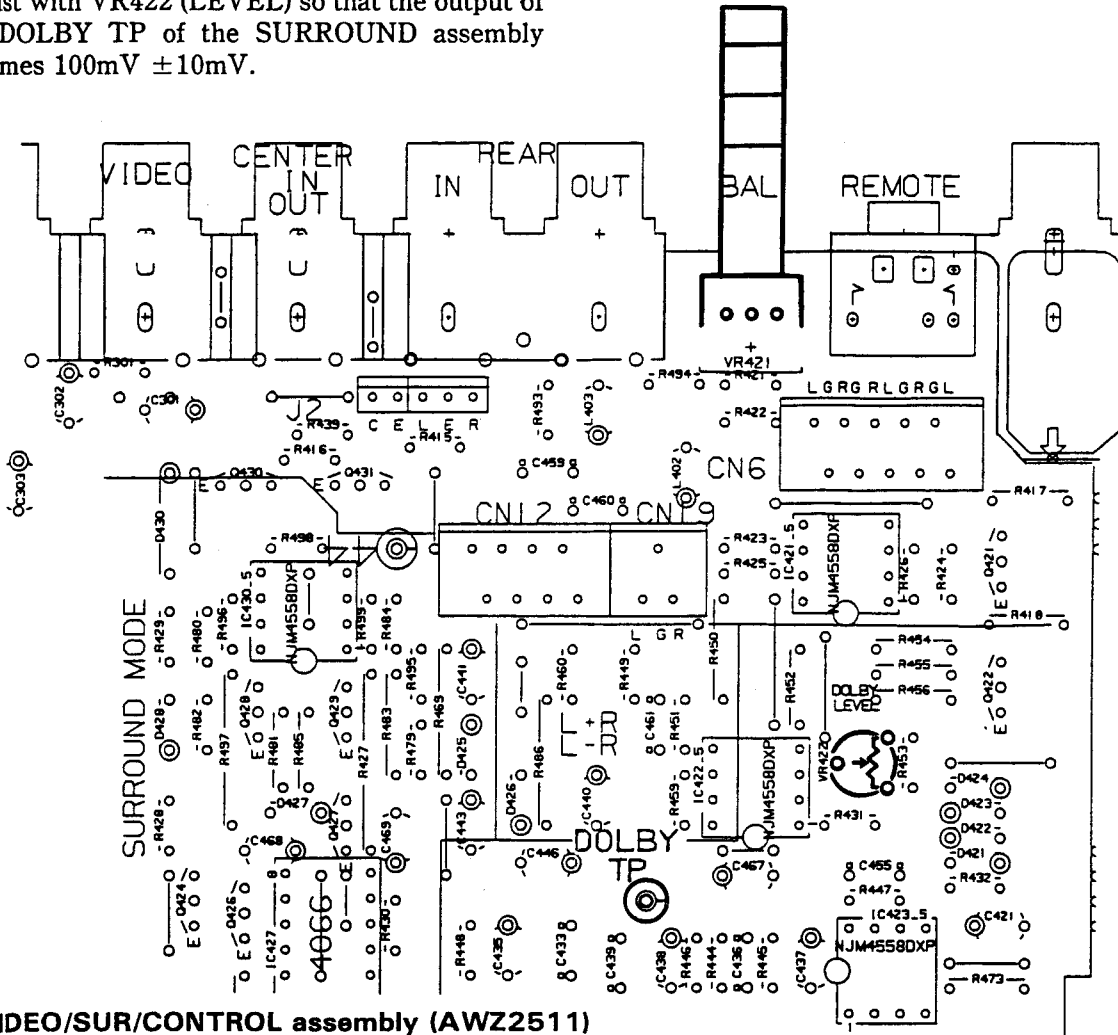
- 1) Adjust the SURROUND BALANCE VR (VR421) on the rear side to center clicking position.
 - 2) Set the SURROUND MODE to the DOLBY SURROUND (VSX-7500S type)
 - 3) Input sine wave signal of 1kHz, 260mV to the VDP/CDV input. Lch (or Rch) only.
- * Set the SURROUND MODE to the STADIUM (VSX-9500S type)



Connection diagram

Adjusting method

- 1) Adjust with VR422 (LEVEL) so that the output of TP DOLBY TP of the SURROUND assembly becomes 100mV ±10mV.



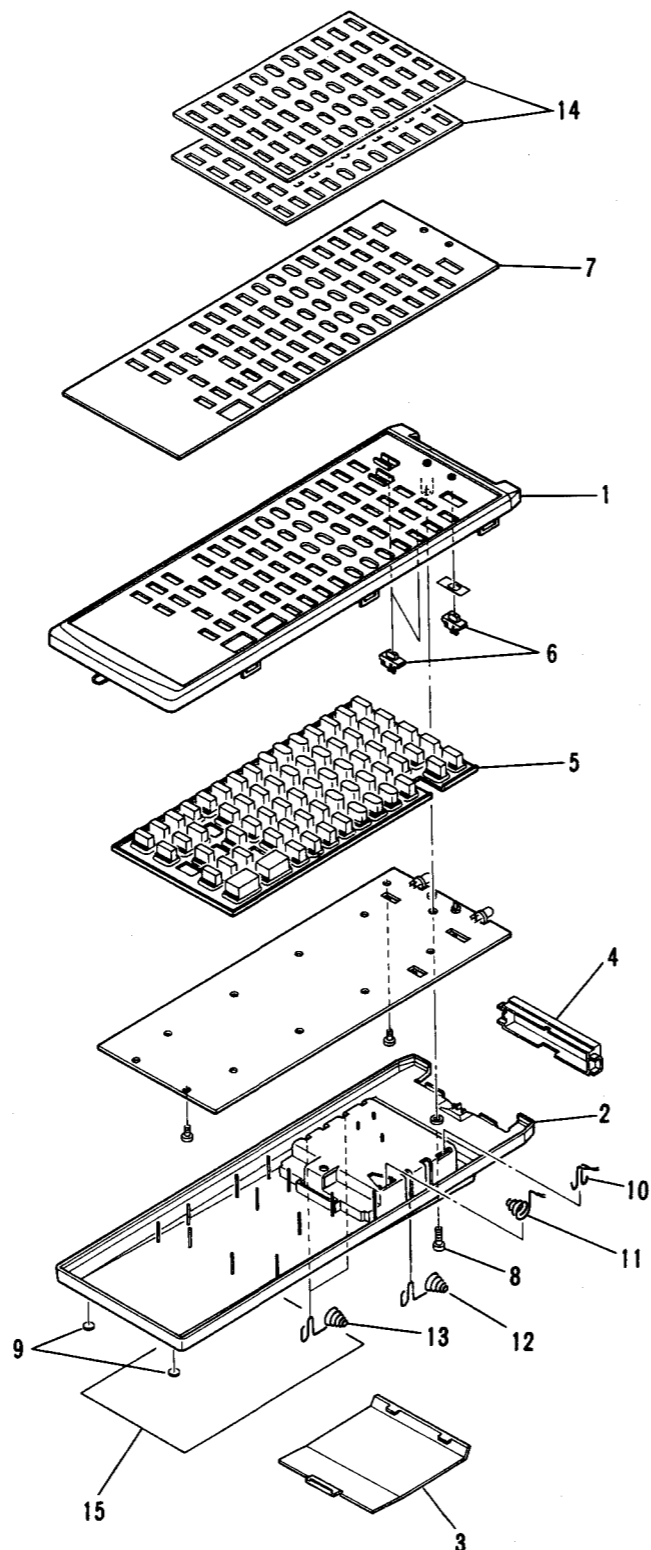
VIDEO/SUR/CONTROL assembly (AWZ2511)

6. REMOTE CONTROL UNIT (AXD1100)

6.1 EXPLODED VIEWS AND PARTS LIST

Parts list of remote control unit

Mark	No.	Parts No.	Description
	1	AZH1033	Case(A)
	2	AZH1034	Case(B)
	3	AZH1035	Case(C)
	4	AZN1400	Filter
	5	AZA1192	Rubber sheet
	6	AZS1042	Knob
	7	AZA1190	Name plate
	8	AZB1124	Screw
	9	AZN1401	Leg
	10	AZB1274	Electrode spring
	11	AZB1275	Electrode spring
	12	AZB1276	Electrode spring
	13	AZB1277	Electrode spring
	14	AAK1439	Sheet
	15	AZA1191	Label



6.2 ELECTRICAL PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).
 560Ω 56×10^1 561.....RD1/4PS Δ Δ J
 $47k\Omega$ 47×10^3 473.....RD1/4PS Δ Δ J
 0.5Ω 0R5.....RN2H Δ Δ K
 1Ω 010.....RSIP Δ Δ K
 Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
 $5.62k\Omega$ 562×10^1 5621.....RN1/4SR Δ Δ Δ F

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC01	PD5108
	IC02	AZC1045
	IC03	AZC1046
	IC04	AZC1047
	IC05	AZC1048
	Q1,Q2	AZC1050
	Q3,Q4	AZC1051
	Q5	AZC1052
	D01,D02,D07-D15	AZC1233
	D03-D06	AZC1049
	PHD01	AZC1055
	LED01,LED02	AZC1054
	IED01,IED02	AZC1053

SWITCHES

Mark	Symbol & Description	Part No.
	S01,S02 Slide switch	AZC1079
	S04 Slide switch	AZC1081
	S05 Slide switch	AZC1080

CAPACITORS

Mark	Symbol & Description	Part No.
	C01 (220p)	AZC1058
	C02 (33p)	AZC1059
	C05,C06 (20p)	AZC1060
	C08 (0.01 μ F)	AZC1061
	C03,C04 (0.001 μ F)	AZC1062
	C11 (0.01 μ F)	AZC1063
	C10 (100 μ F)	AZC1251
	C07 (4.7 μ F)	AZC1252
	C09 (1000 μ F)	AZC1255

RESISTORS

Mark	Symbol & Description	Part No.
	R01 (8.2k)	AZC1064
	R02 (4.7k)	AZC1065
	R03,R08 (33k)	AZC1066
	R05,R17 (10k)	AZC1068
	R06 (82k)	AZC1069
	R09 (6.8k)	AZC1070
	R10 (56k)	AZC1071
	R12 (1M)	AZC1072
	R07,R11,R30-R38 (100k)	AZC1073
	R19-R21 (2.2k)	AZC1074
	R13,R16 (680 Ω)	AZC1075
	R15 (10 Ω)	AZC1076
	R18,R22-R29 (47k)	AZC1077
	R14 (3.9 Ω)	AZC1078
	R04 (560k)	AZC1256

OTHERS

Mark	Symbol & Description	Part No.
	X01 Resonator	AZC1057

6.3 SCHEMATIC DIAGRAM

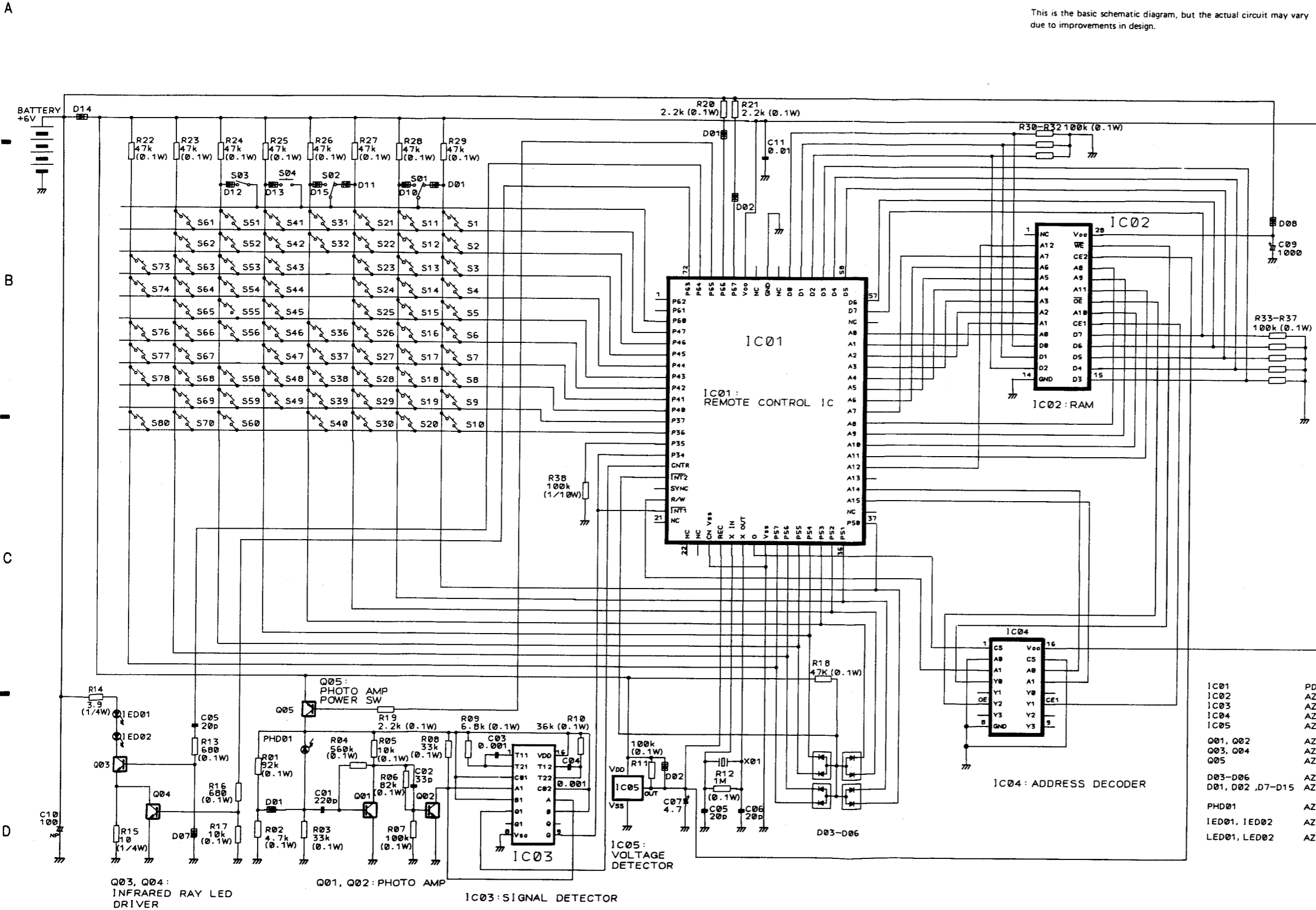
1. RESISTORS:
Indicated in Ω, ¼W, ½W, ±5% tolerance unless otherwise noted k: kΩ, M: MΩ, (F): ±1%, (G): ±2%, (K): ±10% (M): ±20% tolerance
2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p: pF Indication without voltage is 50V except electrolytic capacitor.

3. OTHERS:
→ : Signal route.
⊙ : Adjusting point.
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
* marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

The underline indicates the switch position

- S01 : AUDIO/VIDEO/AUX
S02 : SR RECALL/USE/LEARN
S03 : DECK I/DECK II
S04 : RESET
- TAPE/VCR
S-1 : VCR POWER
S-2 : ● TAPE/VCR
S-3 : ■ TAPE/VCR
S-4 : ○/VCR CH-
S-5 : VCR CH+
S-6 : ◀
S-7 : ◀/ANT/TV/VCR
S-8 : ■
S-9 : ■
S-10 : ▶
- CD/VDP
S-11 : DISC SEL /DISPLAY CALL
S-12 : ■
S-13 : ■ CHP/FR-TM
S-14 : ▶/SEARCH
S-15 : PROG
S-16 : ◀
S-17 : ■
S-18 : ▶
S-19 : ▶
- TUNER/CD/TV/VDP
S-20 : 1/13
S-21 : 2/14
S-22 : 3/15
S-23 : 4/16
S-24 : 5/17
S-25 : 6/18
S-26 : 7/19
S-27 : 8/20
S-28 : 9/21
S-29 : 0, 10/22
S-30 : 11/MEMORY/23
S-31 : 12/CLEAR/24
- TUNER/CD/PHONO/AMP/TV
S-32 : BAND/DUAL
- S-36 : 112/1324/CH-RETURN
S-37 : FREQUENCY-/TV CHANNEL-
S-38 : FREQUENCY+/TV CHANNEL+
S-39 : TV POWER
S-40 : CD+10/TV FUNC CYCLIC
S-41 : PHONO■/TV VOL-
S-42 : PHONO▶/TV VOL+
S-43 : AMP DISPLAY/TV DISPLAY
S-44 : VCR 1
S-45 : VCR 2
S-46 : VCR 3
S-47 : VDP
S-48 : TV
S-49 : VIDEO
- S-51 : TAPE 1/DAT
S-52 : TAPE 2
S-53 : LINE
S-54 : CD
S-55 : TUNER
S-56 : PHONO
- S-58 : SLEEP
S-59 : RECEIVER POWER
S-60 : MUTING
S-61 : FRONT BAL.R
S-62 : FRONT BAL.L
S-63 : MASTER VOLUME-
S-64 : MASTER VOLUME+
S-65 : REAR LEVEL-
S-66 : REAR LEVEL+
S-67 : SURROUND MODE
S-68 : SURROUND DELAY TIME
S-69 : REAR BAL.R
S-70 : REAR BAL.L
- S-73 : CENTER LEVEL-
S-74 : CENTER LEVEL+
- S-76 : ACOUSTIC
S-77 : SP-A
S-78 : SP-B
- S-80 : RETURN

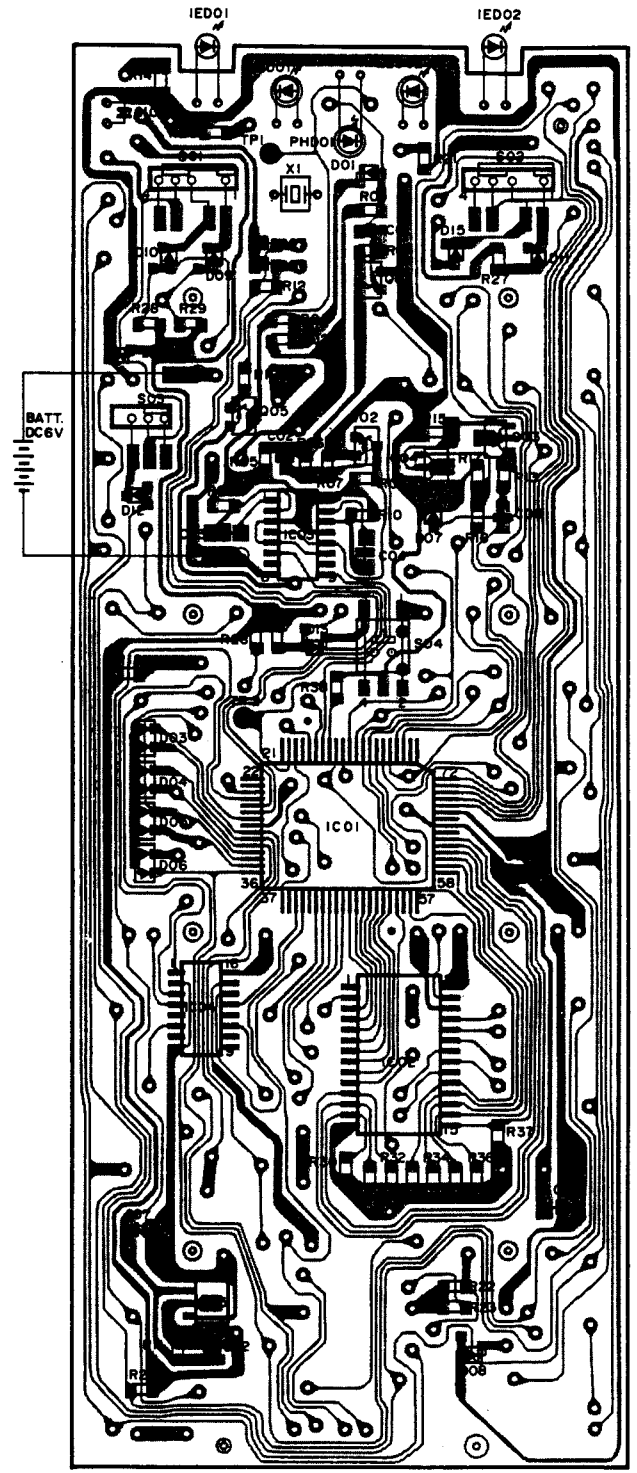
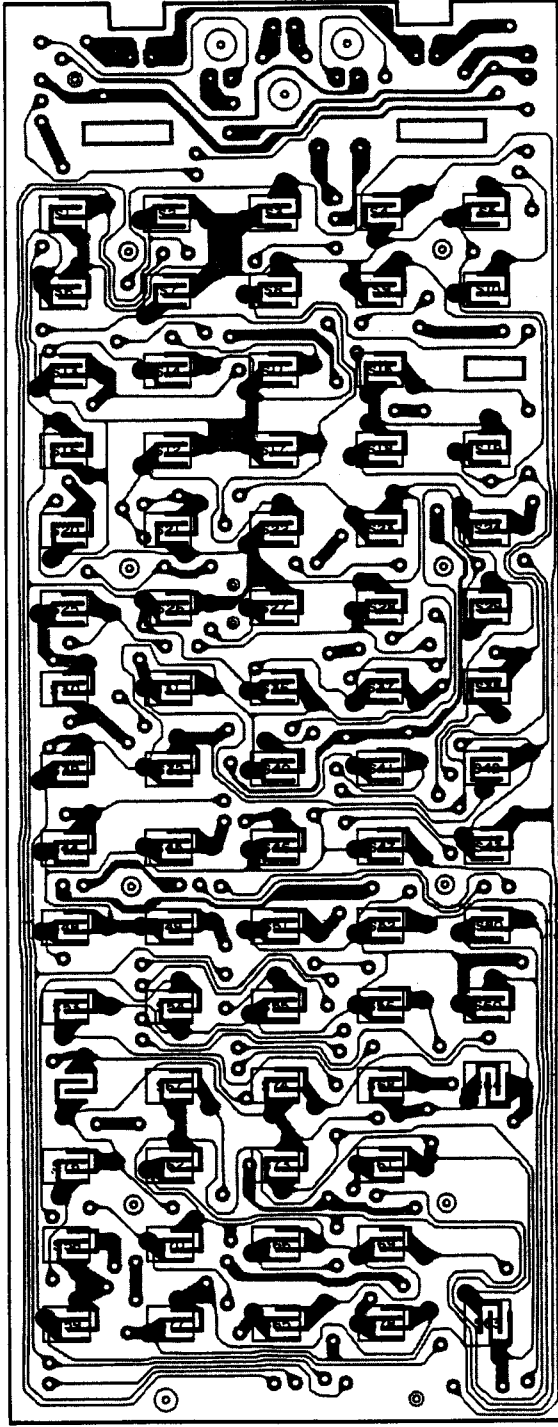


- IC01 PD5108
IC02 AZC1045
IC03 AZC1046
IC04 AZC1047
IC05 AZC1048
- Q01, Q02 AZC1050
Q03, Q04 AZC1051
Q05 AZC1052
- D03-D06 AZC1049
D01, D02, D7-D15 AZC1233
- PHD01 AZC1055
LED01, LED02 AZC1053
LED01, LED02 AZC1054

6.4 P.C.BOARD PATTERNS

NOTE :

- : Indicates a chip resistor.
- +— : Indicates a chip capacitor.
- : Indicates a chip transistor.
- : Indicates a chip diode.



**7. FOR VSX-9500S/SD/G, VSX-7500S/KUC AND SD/G TYPES
CONTRAST OF MISCELLANEOUS PARTS**

NOTES:

- Parts without part number cannot be supplied.
- 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.

The VSX-9500S/SD/G, VSX-7500S/KUC and SD/G types are the same as the VSX-9500S/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.				Remarks
		VSX-9500S/ KUC type	VSX-9500S/ SD/G type	VSX-7500S/ KUC type	VSX-7500S/ SD/G type	
	AF assembly	AWZ2507	AWZ2507	AWZ2518	AWZ2518	
	MOTOR VOL assembly	AWZ2509	AWZ2509	AWZ2519	AWZ2519	
	VIDEO/SUR/CONTROL assembly	AWZ2511	AWZ2511	AWZ2520	AWZ2520	
	FRONT CONTROL A assembly	AWZ2513	AWZ2513	AWZ2521	AWZ2521	
	FRONT CONTROL B assembly	AWZ2514	AWZ2514	AWZ2522	AWZ2522	
	METER AMP assembly	AWZ2515	AWZ2515	AWZ2523	AWZ2523	
	REAR AMP assembly	AWZ2516	AWZ2516	AWZ2524	AWZ2524	
	S TERM./CENTER SP assembly	AWK1219	AWK1219	.....	.....
	S TERM./MULTI ROOM assembly	.....	.....	AWK1222	AWZ1222	
	PRO LOGIC assembly	AWX1025	AWX1025	.....	.....
\triangle	T1 Power transformer (AC120V)	ATS1205	.....	ATS1144	.....
\triangle	T1 Power transformer (AC110V, 120V-127V, 220V, 240V)	.....	ATS1208	.....	ATS1145	
\triangle	S3 Line voltage selector switch (AC110V, 120V-127V, 220V, 240V)	.....	AKX-507	.....	AKX-507	
\triangle	S2 Line voltage selector switch (AC110V-127V, 220V-240V)	.....	AKX1004	.....	AKX1004	
	S4 Slide switch (75 μ S-50 μ S)	.....	ASH-004	.....	ASH-004	
\triangle	FU1 Fuse (10A/125V)	AEK-310	.....	AEK-310	.....
\triangle	FU1, FU2 Fuse (6A/125V)	.....	AEK-109	.....	AEK-109	
\triangle	Q9 Transistor	2SC3180N	2SC3180N	.....	.....
\triangle	Q10 Transistor	2SA1263N	2SA1263N	.....	.....
\triangle	Fuse holder	.....	AKR-032	.....	AKR-032	
\triangle	AC Power cord	ADG1031	ADG1015	ADG1031	ADG1015	
\triangle	Hinge knob	AAD1396	AAD1396	AAD1397	AAD1397	
	Mica sheet	AEC-818	AEC-818	.....	.....	For Q9, Q10
	Mica sheet	AEE1033	AEE1033	.....	.....	For Q1~Q4
	Mica sheet	.....	.....	AEC1123	AEC1123	For Q1~Q4
	Front panel	ANB1302	ANB1302	ANB1303	ANB1303	

Mark	Symbol & Description	Part No.				Remarks
		VSX-9500S/ KUC type	VSX-9500S/ SD/G type	VSX-7500S/ KUC type	VSX-7500S/ SD/G type	
	Insulator assembly	AMR1434	AMR1434	AMR1350	AMR1350	For Q1~Q4 For assembling S4 For assembling REAR AMP assembly
	Insulator assembly	AMR1435	AMR1435	AMR1353	AMR1353	
	Bush	ABF1018	ABF1018	.....	.....
	Screw	.....	VMZ26P040FZK	.....	VMZ26P040FZK
	Screw	ABA1009	ABA1009	ABA1063	ABA1063	
	Washer	ABE-053	ABE-053	ABE-061	ABE-061	
	Packing case	AHD1620	AHD1621	AHD1622	AHD1623	
	Spacer	.....	AHB1006	.....	AHB1006

AF assembly (AWZ2518)

The AF assembly (AWZ2518) is the same as the AF assembly (AWZ2507) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2507	AWZ2518	
	C189	.....	CEAS100M25	
	C207,C208	CMA270J500	CCCSL270K500	
	C505,C506 (6800 μ F/DC42)	ACH1110	.....
	C505,C506 (5600 μ F/DC42)	.....	ACH1047	
	R191,R192	.....	RD1/8PM153J	
	R193,R194,R196	.....	RD1/8PM102J	
	R195	.....	RD1/8PM273J	

MOTOR VOL assembly (AWZ2519)

The MOTOR VOL assembly (AWZ2519) is the same as the MOTOR VOL assembly (AWZ2509) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2509	AWZ2519	
	VR671 Variable resistor with motor	ACX1016 (100k \times 2, 50k \times 3)	ACX1015 (100k \times 2, 50k \times 3)	

FRONT CONTROL B assembly (AWZ2522)

The FRONT CONTROL B assembly (AWZ2522) is the same as the FRONT CONTROL B assembly (AWZ2514) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2514	AWZ2522	
	S866,S867	ASG1029	.....

VIDEO/SUR/CONTROL assembly (AWZ2520)

The VIDEO/SUR/CONTROL assembly (AWZ2520) is the same as the VIDEO/SUR/CONTROL assembly (AWZ2511) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2511	AWZ2520	
	C444,C445	CEAS2R2M50	.....
	R458	RD1/8PM392J	.....
	R460	RD1/8PM102J	.....
	R515	RD1/8PM223J	.....
	CN11	KPE12	KPE15	
	CN12	KPE8	.....
	CN19	KPE3	.....
	CN20	KPC5	.....
	1P Pin jack	AKB1010	.....
	6P Pin jack	AKB1093	.....
	3P Pin jack	.....	AKB1092	
	4P Pin jack	.....	AKB1007	

FRONT CONTROL A assembly (AWZ2521)

The FRONT CONTROL A assembly (AWZ2521) is the same as the FRONT CONTROL A assembly (AWZ2513) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2513	AWZ2521	
	Q812	RN2203	.....
	D814-D817	1SS252	.....
	S854,S855	ASG-711	.....
	R822	RD1/8PM104J	.....
	R834	.....	RA5S103J	

METER AMP assembly (AWZ2523)

The METER AMP assembly (AWZ2523) is the same as the METER AMP assembly (AWZ2515) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2515	AWZ2523	
	C636	.....	CEAS010M50	
	R635	RD1/8PM334J	.....
	R661,R662	.....	RD1/8PM105J	
	R669	.....	RD1/8PM274J	

REAR AMP assembly (AWZ2524)

The REAR AMP assembly (AWZ2524) is the same as the REAR AMP assembly (AWZ2516) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2516	AWZ2524	
	IC603	UPC1270H	.....
	Q603	2SC2458	.....
	C619	CEAS2R2M50	.....
	C620	CKMYB102K50	.....
	C621	CEHAQ101M10	.....
	C622	CCMSL270J50	.....
	C623	CEAS100M50	.....
	C624	CFTXA333J50	.....
	C625	CKDYF103Z50	.....
	R621,R623	RD1/8PM222J	.....
	R622	RD1/8PM563J	.....
	R624	RD1/8PM473J	.....
	R625	RD1/8PM684J	.....
	R626	RD1/8PM122J	.....
	R627	RD1/8PM102J	.....
	R628	RD1/8PM123J	.....
	R629 (0.22 x 2)	ACN-131	.....

S TERM./MULTI ROOM assembly (AWK1222)

The S TERM./MULTI ROOM assembly (AWK1222) is the same the S TERM./CENTER SP assembly (AWK1219) with the exception of the following sections.

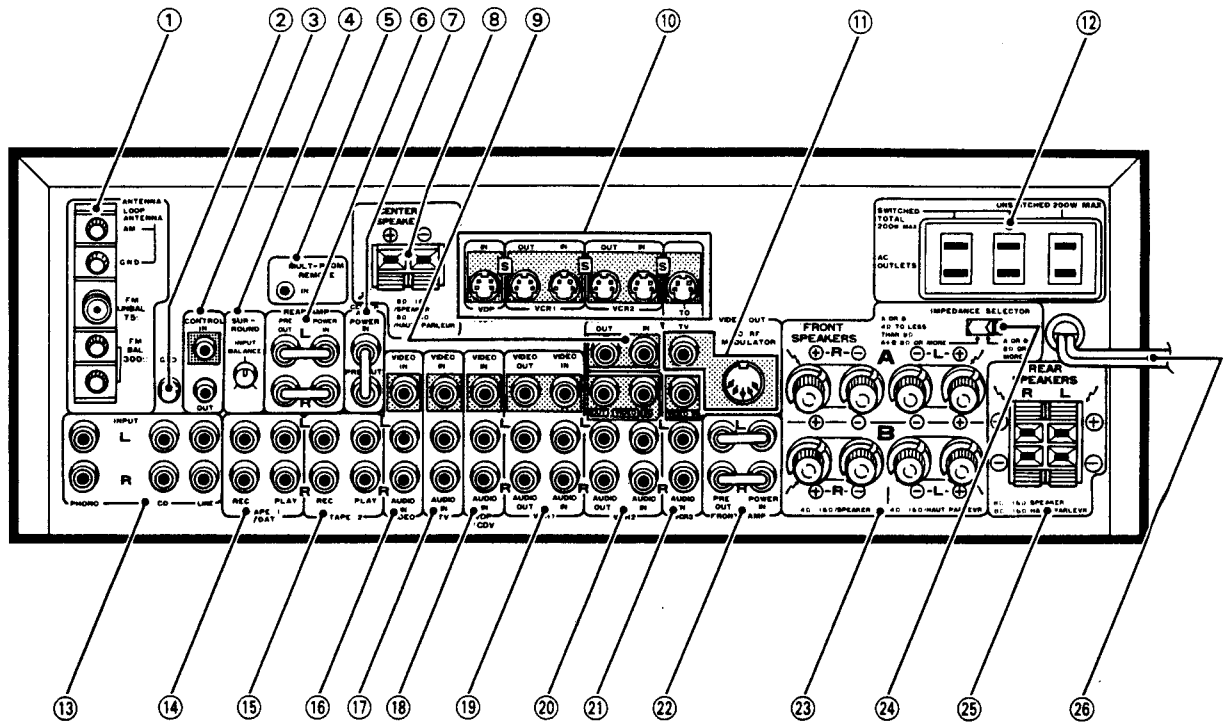
Mark	Symbol & Description	Part No.		Remarks
		AWK1219	AWK1222	
	Q926	RN1201	.....
	D905,D908	1SS252	.....
	RY901	ASR1005	.....
	L901 (0.7μH)	ATH1011	.....
	C926	CFTXA104J50	.....
	R958,R959	RD1/4PMF4R7J	.....
	R960	RD1/8PM183J	.....
	CN51, CN52	KPC3	.....
	2P Speaker terminal (Center SP)	AKE-058	.....

8. PANEL FACILITIES

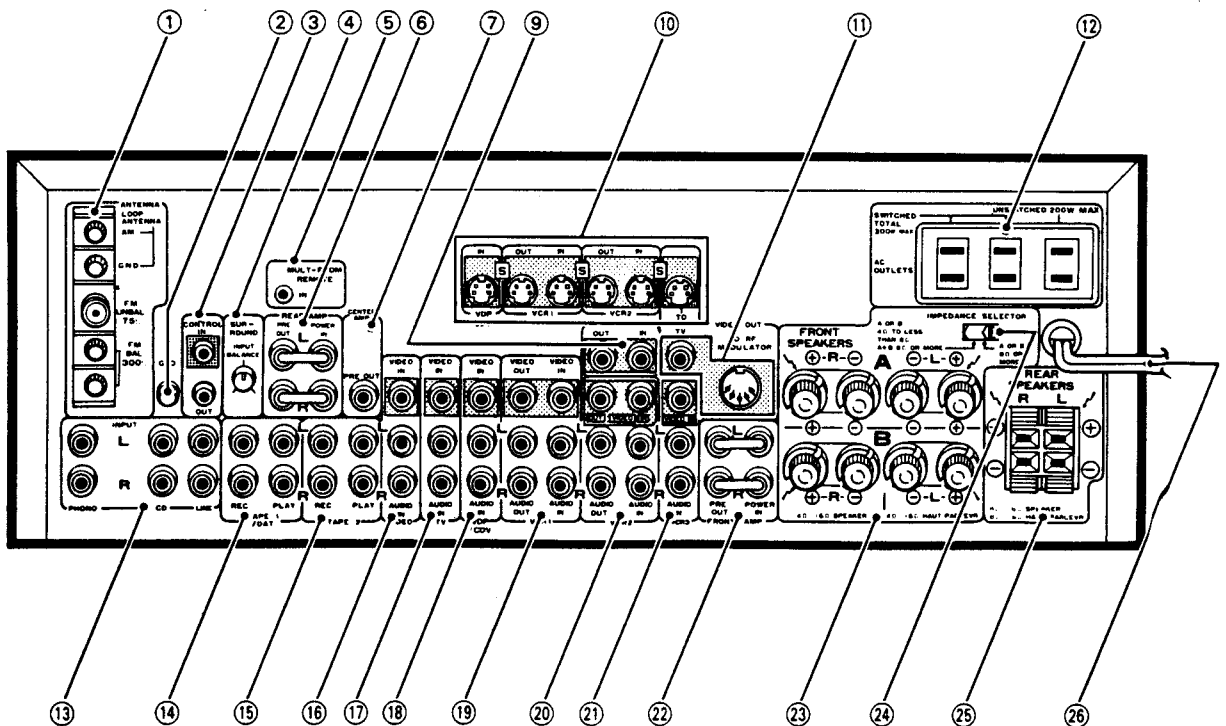
REAR PANEL

VSX-9500S

* Illustrations show U.S. models.



VSX-7500S



① FM/AM ANTENNA terminals

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


Attach the accessory AM Loop and FM T-type antennas, here.

- For details regarding antenna connection, see the section "Hints for Better Reception" on page 45.

② GND terminal

Connect the turntable ground lead to this terminal.

③ CONTROL IN, OUT jacks

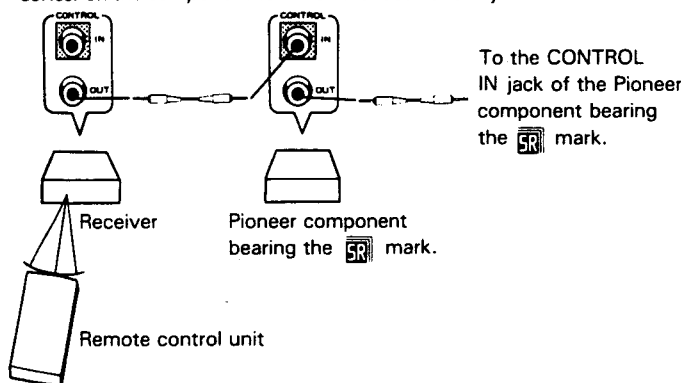
Used for system control with other Pioneer components bearing the  mark.

IN..... For connection from the CONTROL OUT jack of another component.

OUT.... For connection to the CONTROL IN jack of another component.

NOTE:

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.



④ SURROUND INPUT BALANCE control (DOLBY SURROUND)

[VSX-7500S]

This knob is for adjusting the balance of the DOLBY SURROUND input signal. To adjust, apply a monaural sound signal and rotate until the SURROUND (rear) sound becomes minimal. (See page 31.)

[VSX-9500S]

Set the front panel PRO LOGIC CENTER MODE switch to the OFF position. Play back a monaural source. Then adjust balance so that you hear minimum volume from all channels. (See page 31.)

⑤ MULTI-ROOM REMOTE IN jack.

When using the optional MR-100 adaptor for multi-room remote control, connect to this jack.

⑥ REAR AMP jacks

[PRE OUT]

When a separate power amplifier is used to drive the rear speakers, connect the power amplifier to these jacks.

[POWER IN]

When a separate pre-amplifier is used for rear speakers and this unit is used as a power amplifier, connect the pre-amplifier to these jacks.

⑦ CENTER AMP jacks

[POWER IN] (VSX-9500S only)

When a separate pre-amplifier is used for center speaker and this unit is used as a power amplifier, connect the pre-amplifier to this jack.

[PRE-OUT]

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

⑧ CENTER SPEAKER terminal (VSX-9500S only)

Connect the center speaker here.

NOTE:

Use a center speaker with an impedance from 8 ohms to 16 ohms.

⑨ VIDEO ADAPTOR jacks

Use to connect a video adaptor component such as a video enhancer or color corrector.

⑩ S (connector) video jacks

When used in conjunction with a VCR, VDP or monitor TV equipped with S video jacks, connect to these jacks.

⑪ VIDEO OUT jacks

Use to connect a TV set for watching program materials from a VCR or VDP connected to this unit.

[TO MONITOR TV jack]

Connect to a monitor TV or a TV set with video input terminals.

- If monitor with S-VHS input connector is used, you also need line out to video monitor.

[TO RF MODULATOR jack]

Use to connect a conventional TV set. When performing connections, the RF MODULATOR JA-RF5 (sold separately) is required. By connecting an RF modulator, video signal can be converted to VHF signal (U.S. channel 3 or 4), thus allowing this unit to be used to view the selected source on a conventional television set.

NOTE

- A "conventional TV set" has an antenna input terminals only.
- Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdown may occur when conductors come into contact with each other.
- Don't connect the TO MONITOR TV VIDEO OUT (RCA pin jack and S jack) and the TO RF MODULATOR jack to the same set at the same time.

⑫ AC OUTLETS

[U.S. and Canadian models]

SWITCHED TOTAL 200 W MAX (VSX-9500S)

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 200 W.

SWITCHED TOTAL 300 W MAX (VSX-7500S)

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 300 W.

UNSWITCHED 200 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 200 W.

[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 these AC OUTLETS in order to avoid overheating and fire risk.
- This can cause the receiver to malfunction.

⑬ Audio INPUT jacks

PHONO Connect to turntable.

CD Connect to compact disc player.

LINE Connect to the audio output jacks of an additional audio component.

⑭ TAPE 1/DAT jacks

Connect a DAT (digital audio tape deck) or your primary analog cassette deck to these jacks.

Connection for Recording

The tape recording jack (TAPE REC) on the cassette deck or DAT should be connected to the REC side of the TAPE 1/DAT jack on the receiver with a pin plug connecting cord.

Connection for Playback

Connect the TAPE PLAY jack on the cassette deck or DAT to the PLAY side of the TAPE 1/DAT jack on the receiver with a pin plug connecting cord.

⑮ TAPE 2 jacks

Connect a second cassette deck to these jacks.

Connection for Recording

The tape recording jack (TAPE REC) on the cassette deck should be connected to the REC side of the TAPE 2 jack on the receiver with a pin plug connecting cord.

Connection for Playback

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 jack on the receiver with a pin plug connecting cord.

⑯ VIDEO jacks (input)

Connect the output jacks of video components.

For example, connect a playback-only VCR or a video camera.

⑰ TV jacks (input)

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

[VIDEO IN]

Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]

Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑱ VDP/CDV jacks

[VIDEO IN]

When watching the video image from a LD player (VDP/CDV player) (or a VCR used for playback), connect its VIDEO OUTPUT jack here.

[AUDIO IN (L,R)]

When playing back the audio channel from a LD player (VDP/CDV player) or a VCR for playback, connect its AUDIO OUTPUT jacks here.

⑲ VCR 1 jacks

[VIDEO IN]

To receive the video image from VCR 1 used for playing, connect its VIDEO OUTPUT jack here.

[AUDIO IN (L, R)]

To receive the audio channels from VCR 1 used for playing, connect its AUDIO OUTPUT jacks here.

[VIDEO OUT]

When copying program material from the video component connected to the VCR 2, VCR 3, VIDEO, VDP/CDV or TV jacks, connect to the VIDEO INPUT jack of the VCR 1 used for recording.

[AUDIO OUT (L, R)]

When copying program material from the video component connected to the VCR 2, VCR 3, VIDEO, VDP/CDV or TV jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR 1 used for recording.

⑳ VCR 2 jacks

[VIDEO IN]

To receive the video image from VCR 2 used for playing, connect its VIDEO OUTPUT jack here.

[AUDIO IN (L, R)]

To receive the audio channels from VCR 2 used for playing, connect its AUDIO OUTPUT jacks here.

[VIDEO OUT]

When copying program materials from the video component connected to the VCR 1, VCR 3, VIDEO, VDP/CDV or TV jack, connect to the VIDEO INPUT jack of the VCR 2 used for recording.

[AUDIO OUT (L, R)]

When copying program materials from the video component connected to the VCR 1, VCR 3, VIDEO, VDP/CDV or TV jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR 2 used for recording.

㉑ VCR 3 input jacks

[VIDEO IN]

To receive the video image from a VCR used for playing only, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

To receive the audio channels from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

㉒ FRONT AMP jacks

[PRE-OUT]

When a separate power amplifier is used to drive the front speakers, connect the power amplifier to these jacks.

[POWER IN]

When a separate pre-amplifier is connected and this unit is used as power amplifier, connect the pre-amplifier to these jacks.

㉓ FRONT SPEAKERS terminals

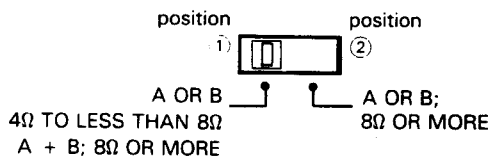
A: Connect to a first set of speakers.

B: Connect to a second set of speakers.

Please refer to item ㉔ Front speakers impedance selector switch.

㉔ Front speakers impedance selector switch

Set this switch to match the impedance of your speakers.



I When using one pair of speakers:

Impedance of a speaker	Selector position
4Ω to less than 8Ω	①
8Ω or more	②

II When using two pairs of speakers:

Select ① as the selector switch position and use speakers having impedance of 8Ω or more.

NOTE:

Turn off the receiver's power before changing the impedance selector switch setting.

㉕ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

Speaker impedance

Connect speaker systems with a nominal impedance of between 8 and 16Ω.

NOTE:

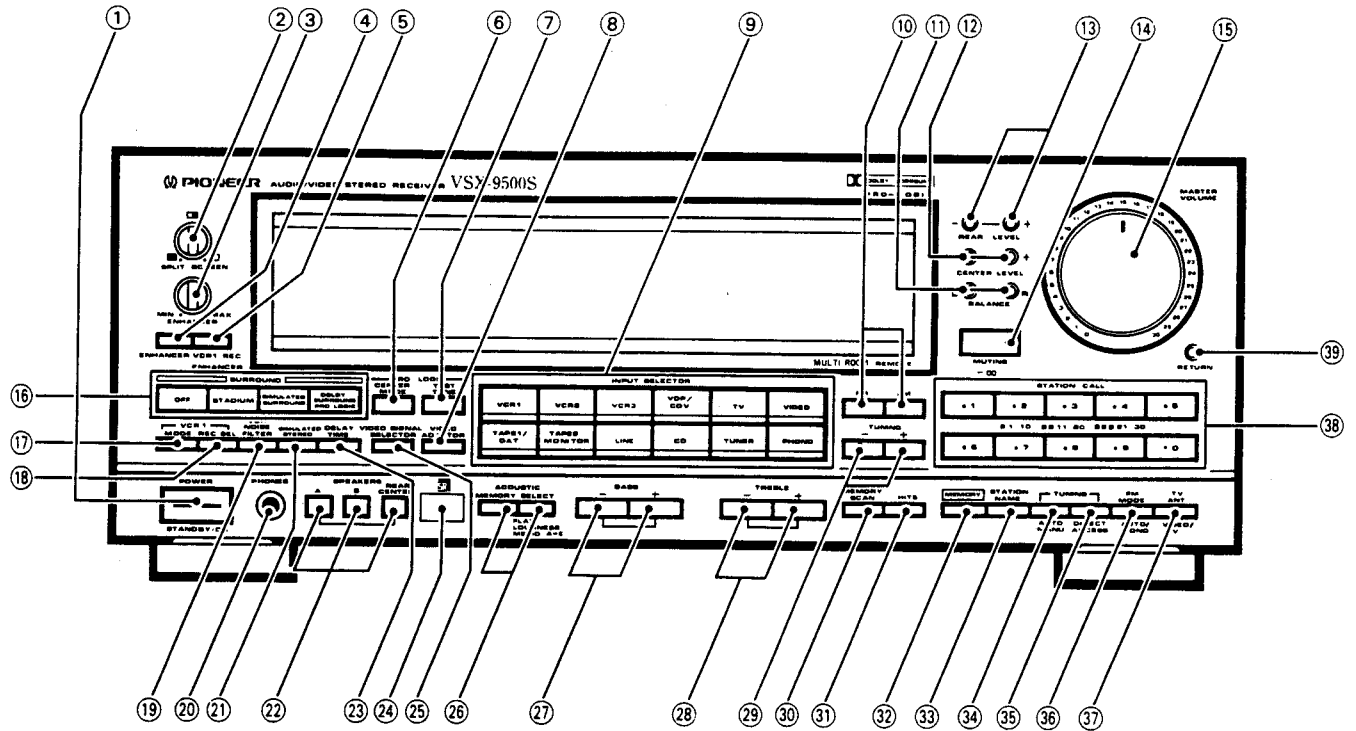
Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

㉖ AC Power cord

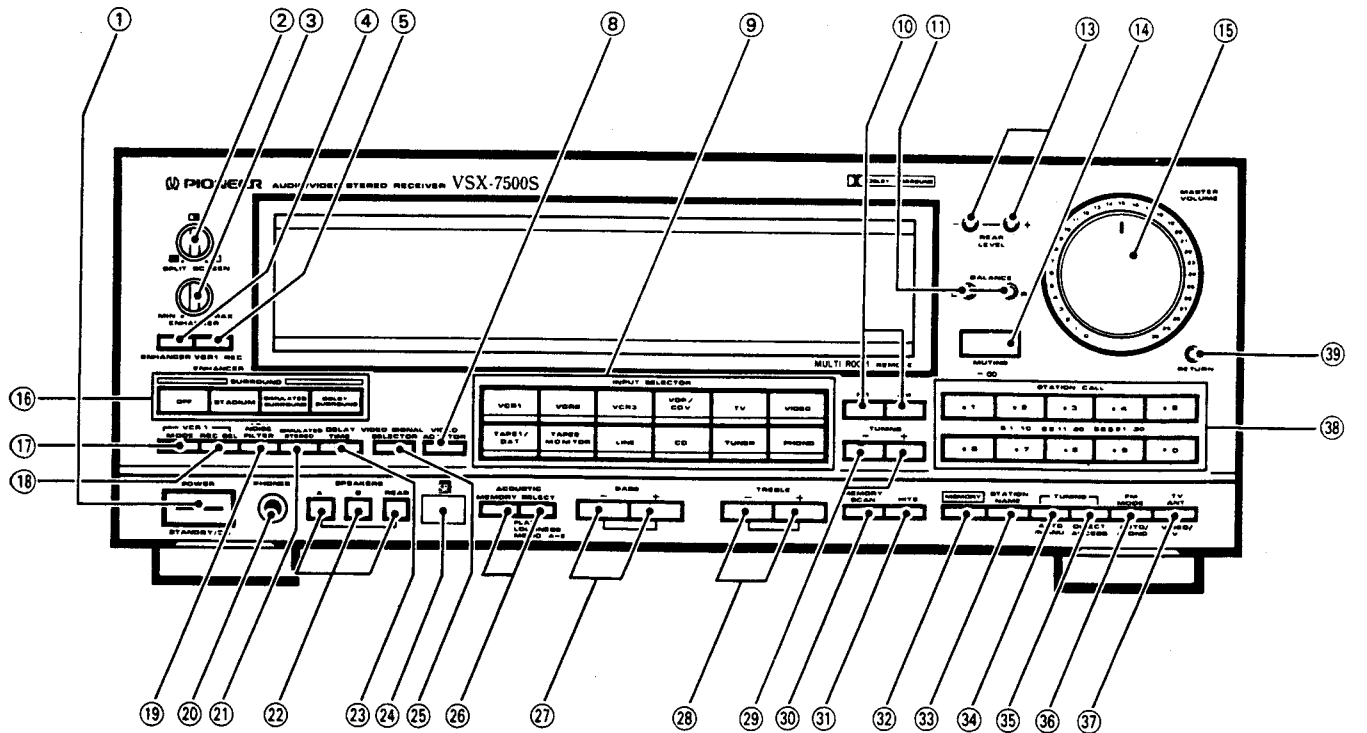
Connect to AC wall socket.

FRONT PANEL

VSX-9500S ⑥, ⑦, ⑫ ... VSX-9500S only



VSX-7500S



① POWER STANDBY/ON switch

ON: The power to the unit is turned on.

STANDBY: This is equivalent to OFF but in fact a fraction of power still feeds the unit.

- The accessory remote control unit can also be used to turn the receiver on or standby (STANDBY function).

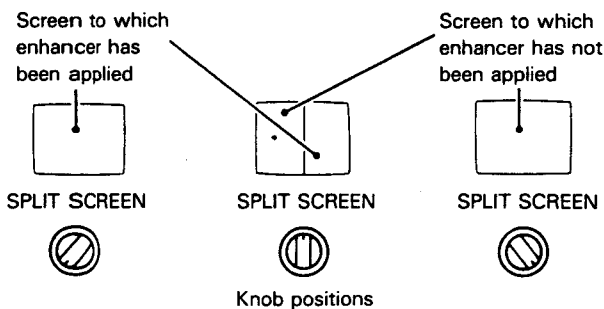
NOTE:

- When not using the unit for a long period, disconnect the power cord from the AC OUTLETS in the wall.
- When the power is initially turned ON, muting is applied to prevent sound from being output for about 5 seconds.

② SPLIT SCREEN control

This split screen function can be used when the ENHANCER switch is on.

This control allows you to freely control the area of enhanced picture (on right side of screen) and original picture (non-enhanced, on left side of screen) by means of a vertical line dividing the screen into two sections. It has no effect on an S output jack signal.



NOTE:

This line is not output from the VCR (VCR 1 and VCR 2) VIDEO OUT jacks. As a result, the split screen image is not recorded; the recorded image will be entirely that produced by the enhancer function.

③ ENHANCER control

When performing tape copying with a VCR, some deterioration in image quality occurs normally. This control allows compensation for this deterioration in image quality by emphasizing image detail. This has no effect on an S output jack signal.

NOTE:

The ENHANCER control functions to suppress image deterioration, but will not improve image quality beyond its original state.

④ ENHANCER switch

Press when performing video copying with added video enhancer effects. When the switch is pressed, the monitored video image will be the split screen picture.

Using the SPLIT SCREEN function will enable you to compare the enhanced and original (non enhanced) images. It has no effect on an S output jack signal.

The ENHANCER switch will not operate if the VCR 1 REC ENHANCER is on (ENHANCER REC indication is lit) while the VCR 1 REC SEL switch is on.

Turn off the VCR 1 REC SEL switch if you want to enhance the signal sent to the MONITOR TV and RF MODULATOR jacks.

⑤ VCR 1 REC ENHANCER switch

Turn this switch ON to record on the VCR connected to the VCR 1 jacks the video image from VCR 2 or VDP with enhancement applied using the ENHANCER control knob. At this time, the enhancer is turned off for the monitor and VCR 2 REC OUT. This has no effect on an S output jack signal.

NOTE:

- The VCR 1 REC SEL switch must be on for the VCR 1 REC ENHANCER switch to operate.

⑥ PRO LOGIC CENTER MODE switch (VSX-9500S)

This operates if DOLBY PRO LOGIC SURROUND is ON. Switches between the four DOLBY PRO LOGIC SURROUND center channel settings. The setting changes in the order listed below each time you press the switch.

NORMAL — Use this setting when a small enclosure center channel speaker incapable of reproducing frequencies below 100Hz is connected.

WIDE — Use this setting when a large enclosure center channel speaker capable of reproducing frequencies below 100Hz is connected.

PHANTOM — Use this setting when no center channel speaker is connected.

OFF — Select this setting for adjusting input balance. Use a mono [AM radio, etc.] signal and adjust the surround balance control on rear panel so that volume is minimized from all speakers.

NOTES:

- If no center speaker is used, then mono signals and center channel signal components will not be reproduced at positions other than the PHANTOM position.
- To provide for correct surround operation, you must have a stereo source or no output will be heard.

⑦ PRO LOGIC TEST TONE switch (VSX-9500S)

Only operates when the DOLBY PRO LOGIC SURROUND surround mode is selected. When the switch is turned ON, "TEST" appears on the central display and a test tone approximately two seconds in duration is generated in all channels in succession. Adjust the speaker level controls so that all speakers sound equally loud from the listening position for the optimum surround effect.

NOTE (For VSX-7500S only):

Adjust the center speaker volume level of the amplifier driving the center speaker, if one (such amplifier) is used.

⑧ VIDEO ADAPTOR switch

Press when using a video adaptor component connected to the rear panel VIDEO ADAPTOR terminals. An indicator on the display section lights up when this switch is set to ON. This has no effect on an S output jack signal.

⑨ Audio/Video INPUT SELECTOR switches

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

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

VCR 3: Press when performing playback on a third VCR unit.

VDP/CDV: Press when performing playback on a video disc player (VDP) or CDV player.

TV: Press to watch TV broadcasts from the TV tuner connected to the rear panel TV jacks.

VIDEO: Press when performing playback on a VCR connected to VIDEO jack.

TAPE 1/DAT: Press when performing playback on a DAT or cassette deck.

TAPE 2 MONITOR: Press when performing playback on a second cassette deck and when monitoring recording or using a graphic equalizer.

LINE: Press when performing playback on an audio component connected to the LINE jacks.

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

TUNER: Press when listening to radio broadcasts.

PHONO: Press when playing records on a turntable.

⑩ BAND selector switches

FM: Press for FM reception.

AM: Press for AM reception.

⑪ BALANCE switches

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

L: Press to decrease the sound on the right side.

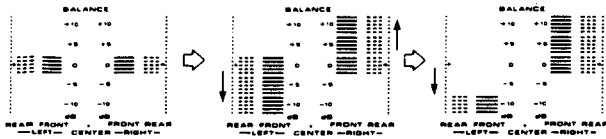
R: Press to decrease the sound on the left side.

Press L and R together to bring the volume balance back to standard (left = Right).

NOTE:

The left-right sound volume balance cannot be adjusted independently on the front and rear speakers.

Example: If press and keep the "R" switch



12 CENTER LEVEL (+, -) switches (VSX-9500S)

Use these switches to adjust the center speaker sound level to the level of the front speakers.

Operate only when DOLBY PRO LOGIC SURROUND mode is on. After adjustment, use the MASTER VOLUME control to adjust the overall sound to a suitable level.

- : Lowers the center speaker sound level.
- + : Raises the center speaker sound level.

The level is displayed on the display section BALANCE/LEVEL meters. Pressing - and + at the same time returns you to the standard.

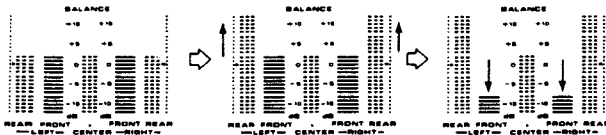
13 REAR LEVEL (-, +) switches

Operate only when the surround mode is on. These switches are used to preset the sound level difference between the front and rear speakers. In this way, after presetting the difference, the overall volume of the front and rear speakers can be changed using the MASTER VOLUME control, while still maintaining the sound volume differential.

- : Surround rear speaker volume is reduced.
- + : Surround rear speaker volume is increased.

Pressing + and - together will restore front and rear to the standard balance setting.

Example: If press and keep the "+" switch



Operate only when SURROUND mode is on.

14 MUTING switch

Press to temporarily cut off the sound volume. The display section MUTING indicator will flash. When pressed again, the sound will return to its previous level.

15 MASTER VOLUME control

Use to simultaneously adjust the sound volume from the front and surround speakers.

16 SURROUND Mode Selector Switches

OFF:

To cancel the surround function.

STADIUM:

Ideal for sports broadcasts, etc.

SIMULATED SURROUND:

Gives concert-hall presence to monaural sound (AM, TV, etc.).

DOLBY PRO LOGIC SURROUND (VSX-9500S)

DOLBY SURROUND (VSX-7500S)

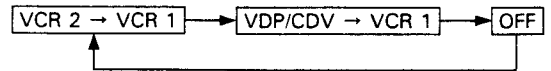
Select this setting when watching video tapes or video discs bearing the mark.

17 VCR 1 MODE switch

Toggles the VCR 1 signal between mono and stereo. It operates both during playback and during recording.

18 VCR 1 REC SEL(ECTOR) switch

Use this switch to select the VCR 1 copy mode independent of the INPUT SELECTOR switch setting. Each time you press it the unit switches between the following three settings. The current setting is shown on the central display section.



NOTE:

At the OFF position, the video source selected by the INPUT SELECTOR is output at the REC jack.

19 VCR NOISE FILTER switch

If tape hiss is noticeable in the sound while performing playback of video cassette tapes, press this switch to reduce the noise.

After pressing this switch, "VCR NOISE FILTER" will appear on the display section.

This switch can be used when either VCR 1 or VCR 2 INPUT SELECTOR switch is selected. The VCR NOISE FILTER has no effect on VCR 3 playback.

NOTE:

- The effectiveness in reducing high-frequency hiss noise varies depending on the type of tape used, the recording level, and other conditions.

20 PHONES jack

Connect the plug on your headphones to this jack. To only hear through the headphones, set all SPEAKERS A, B and REAR switches to the OFF position.

21 SIMULATED STEREO switch

Press to produce a simulated stereo effect when listening to monaural sources (for example AM or TV broadcasts).

"SIMULATED STEREO" appears on the display section.

NOTE:

There is no sound output from the rear speakers during this operation.

22 SPEAKER switches

VSX-9500S: switches A, B, REAR/CENTER.

VSX-7500S: switches A, B, and REAR.

ON/OFF switches for the speaker systems. An indicator on the display section lights when any of these switches is set to ON.

NOTE:

Rear speaker on/off switching is possible only when the surround mode is on.

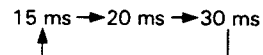
NOTE FOR VSX-9500S:

Center speaker on/off switching is possible only when the DOLBY PRO LOGIC SURROUND (WIDE or NORMAL) mode is on.

23 DELAY TIME switch

Operates only when the surround mode is ON.

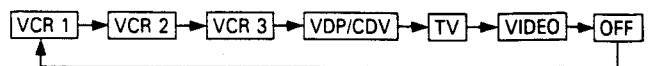
Switches the surround delay time in three steps. For DOLBY PRO LOGIC SURROUND (VSX-9500S) DOLBY SURROUND (VSX-7500S), 20 ms is standard.



24 Remote signal sensor

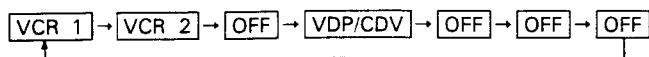
25 VIDEO SIGNAL SELECTOR switch

When recording simulcast programs, the recorded image can be selected among VCR 1, VCR 2, VCR 3, VDP/CDV, TV and VIDEO.



The current setting is shown by an indicator on the display section.

Note that with an S video output jack, the switch is OFF for VCR 3, TV, and VIDEO.



NOTE:

- When using a VCR for sound recording only, follow the operating instructions of the VCR.
- During VCR 1 REC SEL use, recording is not possible on VCR 1 using the VIDEO SIGNAL SELECTOR.

26 ACOUSTIC Switch

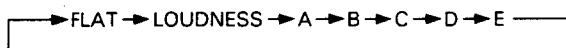
MEMORY:

Pressing this switch will result in the memorization of the sound quality (tone control condition). Press again to cancel this mode.

SELECT

This switch has three functions:

Each time you press the switch, the sound quality setting advances in the order shown below.



- I **FLAT:** For flat (normal) frequency response.
- II **LOUDNESS:** Emphasizes the low- and high- frequency ranges. Produces a fuller sense of sound.
- III **A – E:** Memorized acoustic memory settings.

- To preset the acoustic memories (A – E).
- To recall previously set sound quality settings.

Presetting the acoustic memory

- Adjust the sound quality as desired using the BASS and TREBLE control switches. LOUDNESS or FLAT only, can also be chosen.
 - Settings are shown by the TONE indicator on the display section.
- Press the ACOUSTIC MEMORY switch.
 - The TONE indicator on the display section blinks on and off.
- Press the ACOUSTIC SELECT switch and select the sign to which you wish to assign the setting (A – E).
 - The sound quality setting is memorized approximately two seconds after you last press the ACOUSTIC SELECT switch.

In this way, the desired tone will be preset in one of the five acoustic memory positions. To preset four other desired tone settings, perform the same operations.

To recall the memorized tone settings, press the ACOUSTIC SELECT switch to select the desired memory position. In this way, five different tone settings can be preset and recalled in the five positions of the acoustic memory.

27 BASS control switches

Use to adjust the low-frequency level. Press the + switch to increase low-frequency level, and the – switch to decrease it.

The TONE indicator appears on the display section.

When both sides (+, –) of the BASS control are pressed simultaneously, the base response will be set to the flat (normal) condition.

28 TREBLE control switches

Use to adjust the high-frequency level. Press the + switch to increase high-frequency level, and the – switch to decrease it.

The TONE indicator appears on the display section.

When both sides (+, –) of the TREBLE control are pressed simultaneously, the treble response will be set to the flat (normal) condition.

29 TUNING switches

[When tuning]

- + : Performs tuning in ascending frequency order.
- : Performs tuning in descending frequency order.

[When inputting station names]

- + : Displays the letters in alphabetical order.
- : Displays the alphabet in reverse order.

30 MEMORY SCAN switch

Operates when the INPUT SELECTOR is set to TUNER. Station frequencies assigned to the STATION CALL switches are tuned in, one after another, beginning with the current station no., for approximately 5 seconds each. The display section SCAN indicator will light. Press the switch again and the tuner remains tuned in to the station playing when the switch was pressed the second time. Station frequencies not assigned station numbers in the memory are skipped.

31 HITS (Hyper Intelligent Tuning System) switch

- If the HITS switch is pressed at the currently displayed station frequency, the receiver searches up and down the frequency for the next station (The SEARCH indicator in the display section lights at this time.) and stops at the first one it finds.
- If the HITS switch is pressed during STATION NAME input, the receiver performs a memory search in order of ascending station number for memorized stations whose names begin with the same letter as the station just input.
- If the HITS switch is pressed during input of numbers for DIRECT ACCESS tuning, the receiver sets the remaining digits which have not yet been input to "0", searches for the corresponding frequencies, and stops on the first station it finds.

NOTE:

- The system searches for stations within successive 1MHz ranges for FM and 100 kHz ranges for AM. During DIRECT ACCESS tuning, it searches up and down for a station until it reaches the edges of the band. If no receivable station is found within the band range, the receiver returns to the state it was in before the HITS switch was pressed.
- If the upper (or lower) frequency limit of the receiver is encountered during HITS operation, the receiver stops searching in that direction but continues to search in the other.

32 MEMORY switch

When the unit is in the frequency display mode, pressing this switch will result in the memorization of the current broadcast band, reception frequency ACOUSTIC MEMORY position, and FM AUTO/MONO mode. This switch is also used to input station names

33 STATION NAME switch

This switch is used when inputting station names

34 AUTO/MANUAL TUNING selector switch

This switch is used to select the tuning mode. The AUTO tuning mode has been selected when the TUNING AUTO indicator lights.

AUTO tuning

When the – or + TUNING switch is pressed, the receiver automatically scans the broadcast station frequencies. When a broadcast is detected, the scanning stops at that frequency.

NOTE:

Pressing the TUNING switch (– or +) while scanning is taking place causes scanning to stop.

MANUAL tuning

This is the usual tuning method. Each time the – or + TUNING switch is pressed, the reception frequency is changed by one channel step. When pressed continuously, the receiver scans the broadcast frequencies continuously.

35 DIRECT ACCESS TUNING switch

When this switch is pressed, the STATION CALL switches function as ten-key number switches for direct input of the desired reception frequency.

If the input station falls outside of the receiver's tuning range, the display section will display a message: "UPPER" if the frequency is too high and "LOWER" if it is too low.

⑳ FM MODE AUTO/MONO selector switch

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM 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 switch has no effect on reception of AM broadcasts.

㉑ TV ANT (VIDEO/TV) selector switch

This switch can be used in place of the TV ANT switch on the RF Modulator JA-RF5 (sold separately). This is effective only when the JA-RF5's TV ANT switch is set to the VIDEO position.

For example:

In VIDEO mode (TV-ANT indicator in the display section goes out):

Allows you to use video components connected to the receiver.

In TV mode (TV-ANT indicator in the display section lights):

Connects the TV antenna, thus allowing you to view normal TV broadcasts. The TV mode is selected while the receiver's power is off.

NOTE:

- When in the VIDEO mode, no sound will be produced from the TV set's speakers. Listen using the speakers connected to the receiver.
- Noise may be produced if the TV set's volume control is turned up. Turn down the set's volume control when listening.
- This switch functions only when the TV ANT selector switch on the RF Modulator is set to "VIDEO."
- This switch is set to VIDEO when the power is turned on.

㉒ STATION CALL RANDOM 30 CH switches

- These switches are used to preset and recall desired broadcasting stations, "AUTO STEREO"/"MONO" switch setting, and ACOUSTIC MEMORY mode.

Station call operation example:

If you press the ***2** key:

- One time — station 2 is selected.
- Two times — station 12 is selected.
- Three times — station 22 is selected.

NOTE:

Pressing the STATION CALL switches when a component other than TUNER is selected causes the INPUT SELECTOR setting to switch to TUNER.

- They are also used when performing direct access tuning.

㉓ RETURN switch

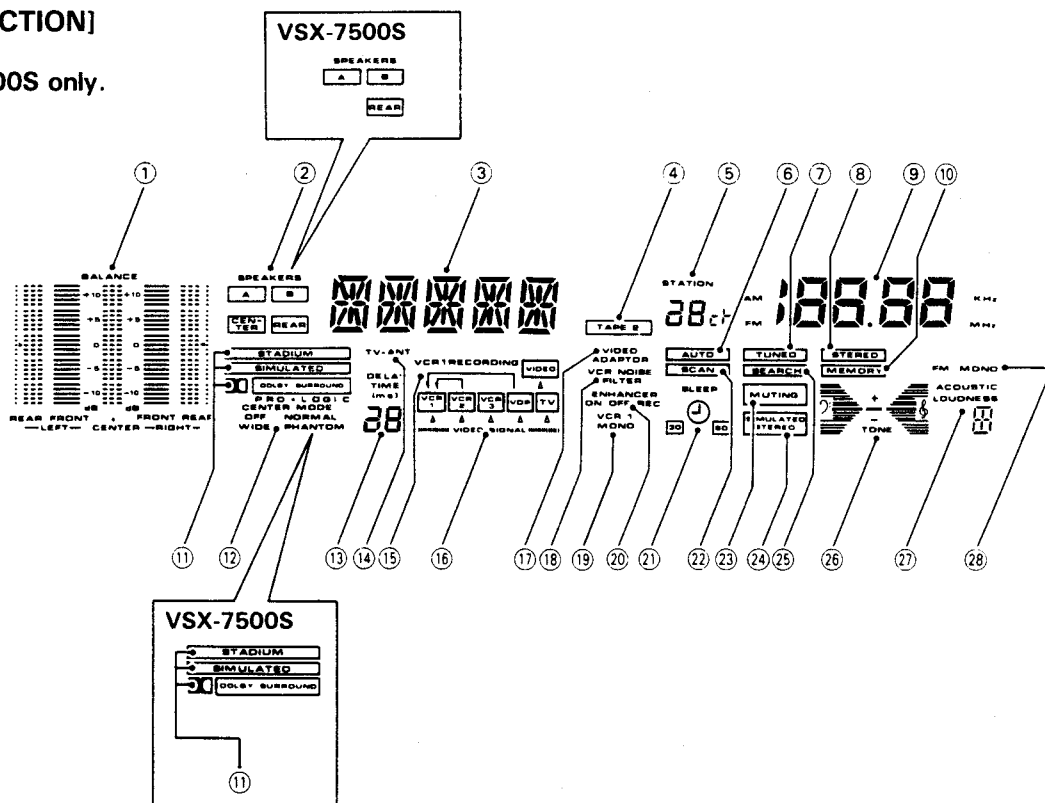
Pressing this switch returns the receiver to the following settings, the sound level being controlled by MASTER VOLUME control knob.

- TAPE 2 MONITOR OFF
- SURROUND MODE FF
- SPEAKERS A ON
- MUTING OFF
- FRONT BALANCE CENTER
- FUNCTION TUNER
- STATION CALL 1 CH *
- VIDEO ADAPTOR OFF

- When a station is not memorized in 1 CH, station search will automatically proceed from the frequency displayed.

[DISPLAY SECTION]

㉔ ... VSX 9500S only.



[DISPLAY SECTION]**① BALANCE/LEVEL meters****② SPEAKERS indicators**

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

③ Function & Station name display**④ TAPE 2 indicator**

Lights when the INPUT SELECTOR is set to TAPE 2 MONITOR ON.

⑤ STATION display

Shows the channel selected with the STATION CALL switch.

⑥ AUTO indicator

Lights when the AUTO/MANUAL TUNING is set to AUTO.

⑦ TUNED indicator

Lights when a station is tuned.

⑧ STEREO indicator

Lights when a stereo FM broadcast is being received.

⑨ Frequency display**⑩ MEMORY indicator****⑪ Surround mode indicators****⑫ DOLBY PRO LOGIC SURROUND CENTER MODE indicators (VSX-9500S only)**

Displays the mode selected with the CENTER MODE switch.


⑬ DELAY TIME display

Shows the delay time during surround operation.

⑭ TV-ANT indicator

Lights when TV mode is selected with the TV ANT switch.

⑮ VCR 1 RECORDING display

Displays a "  " symbol to indicate the copy mode selected with the VCR 1 REC SEL switch.

⑯ VIDEO SIGNAL SELECTOR indicators

Shows the video component selected with the VIDEO SIGNAL SELECTOR switch.

⑰ VIDEO ADAPTOR indicator

Lights when the VIDEO ADAPTOR switch is in the ON position.

⑱ VCR NOISE FILTER indicator

Lights when the VCR NOISE FILTER switch is in the ON position.

⑲ VCR 1 MONO indicator**⑳ ENHANCER ON, OFF, REC indicators**

Shows the current VIDEO enhancer setting.

㉑ SLEEP timer indicators

Shows the SLEEP timer setting (the length of time from the set time to the point at which power will switch off). Only activated by remote control.

㉒ SCAN indicator

Lights during memory scan operation.

㉓ MUTING indicator**㉔ SIMULATED STEREO indicator****㉕ SEARCH indicator**

Lights during HITS operation.

㉖ TONE level indicators

Shows the settings of the BASS and TREBLE level.

㉗ ACOUSTIC display

Shows the setting of the ACOUSTIC SELECT switch.

㉘ FM MONO indicator

Lights when the FM MONO mode is selected with the FM MODE switch.

9. SPECIFICATIONS

Amplifier section [POWER AMP IN]

Continuous average power output of 125 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.005 %** total harmonic distortion (front); 30 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.08 %** total harmonic distortion (rear); 30 watts*, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.08 %** total harmonic distortion (center: VSX-9500S only).

Dynamic power (2 Ω/4 Ω/8 Ω) 280 W/260 W/185 W

Audio section

Damping Factor

1 kHz, 8 Ω 100

Input (Sensitivity/Impedance)

PHONO MM 2.5 mV/47 kΩ

CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV,

VDP/CDV, VCR 1, VCR 2, VCR 3 150 mV/47 kΩ

POWER AMP IN 1 V/47 kΩ

Phono Overload Level (T.H.D. 0.08 %, 1000 Hz)

PHONO MM 150 mV

Frequency Response

PHONO MM 20 Hz to 20,000 Hz ± 0.3 dB

CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV,

VDP/CDV, VCR 1, VCR 2, VCR 3 5 Hz to 100,000 Hz ± ½ dB

Output (Level/Impedance)

TAPE 1/DAT REC, TAPE 2 REC, VCR 1 OUT,

VCR 2 OUT 150 mV/2.2 kΩ

PRE AMP OUT 1 V/220 Ω

Loudness Contour +6 dB (100 Hz)
+3 dB (10 kHz)

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

PHONO MM 82 dB

CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV,

VDP/CDV, VCR 1, VCR 2, VCR 3 98 dB

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

PHONO MM 77 dB

CD, LINE, TAPE 1/DAT, TAPE 2, VIDEO, TV,

VDP/CDV, VCR 1, VCR 2, VCR 3 80 dB

VIDEO Section

Input (Sensitivity/Impedance)

VCR 1, VCR 2, VCR 3, VDP/CDV, TV, VIDEO,
ADAPTOR 1 V_{p-p}/75 Ω

Output (Level/Impedance)

VCR 1, VCR 2, ADAPTOR, MONITOR 1 V_{p-p}/75 Ω

Frequency Response

VCR 1, VCR 2, VCR 3, VDP/CDV, TV, VIDEO,
ADAPTOR→MONITOR 5 Hz — 10 MHz ± ½ dB

Signal-to-Noise Ratio 55 dB

Cross Talk 55 dB (3.58 MHz)

Enhancer ± 3 dB (2 MHz)

[S terminals]

Input (Sensitivity/impedance)

VCR 1, VCR 2, VDP/CDV Luminance signal: 1 V_{p-p}/75 Ω
Color difference signal: 0.286 V_{p-p}/75 Ω

Output (Level/impedance)

VCR 1, VCR 2, TO MONITOR TV, Luminance signal: 1 V_{p-p}/75 Ω
Color difference signal: 0.286 V_{p-p}/75 Ω

Frequency response

Luminance signal 10 Hz to 10 MHz, ± ½ dB

Signal-to-Noise Ratio

Luminance signal 55 dB

Cross talk 55 dB (3.58 MHz)

Surround section

Input (Sensitivity/Impedance)

REAR POWER AMP IN 1 V/47 kΩ

CENTER POWER AMP IN 1 V/47 kΩ

Output (Level/Impedance)

REAR PRE AMP OUT 1 V/470 Ω

CENTER PRE AMP OUT

VSX-9500S 1 V/470 Ω

VSX-7500S 2 V/470 Ω

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono; 10.8 dBf, IHF (0.95 μ V/75 Ω)
50 dB Quieting Sensitivity	Mono; 15.3 dBf, (1.6 μ V/75 Ω)
	Stereo; 37.0 dBf, (19.5 μ V/75 Ω)
Signal-to-Noise Ratio	Mono; 80 dB (at 65 dBf)
	Stereo; 75 dB (at 85 dBf)
Distortion	Mono; 0.08 % (100 Hz)
	0.08 % (1 kHz)
	0.2 % (6 kHz)
	Stereo; 0.2 % (100 Hz)
	0.15 % (1 kHz)
	0.3 % (6 kHz)
Capture Ratio	1.0 dB
Alternate Channel Selectivity	65 dB (400 kHz)
Stereo Separation	50 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz ± 0.5 dB
Image Interference Ratio	50 dB
IF Interference Ratio	80 dB
AM Suppression Ratio	55 dB
Spurious Interference Ratio	70 dB
Antenna Input	300 Ω balanced
	75 Ω unbalanced

AM Tuner Section

Frequency range	When 10 kHz step: 530 kHz — 1,700 kHz
	When 9 kHz step: 531 kHz — 1,602 kHz
Sensitivity (IHF, Loop antenna)	300 μ V/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Image Interference Ratio	40 dB
IF Interference Ratio	65 dB
Antenna	Loop antenna

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Miscellaneous

Power requirements	
U.S., Canadian models	AC 120V, 60 Hz
Other destination models	AC 110/120—127/220/240V (switchable), 50/60 Hz

Power consumption

U.S., Canadian models	
VSX-9500S	580 W, 750 VA
VSX-7500S	550 W, 660 VA
Other destination models	
VSX-9500S	900 W
VSX-7500S	800 W
In stand by condition	3 W

AC Outlets

U.S. and Canadian models	
VSX-9500S	SWITCHED x 2: TOTAL 200 W MAX
	UNSWITCHED x 1: 200 W MAX
VSX-7500S	SWITCHED x 2: TOTAL 300 W MAX
	UNSWITCHED x 1: 200 W MAX
Other destination model	SWITCHED x 2: TOTAL 100 W MAX
	UNSWITCHED x 1: TOTAL 100 W MAX

Dimensions	420 (W) x 155.5 (H) x 421 (D) mm
	16-9/16 (W) x 6-1/8 (H) x 15-9/16 (D) in

Weight (without package)

U.S. and Canadian models	
VSX-9500S	13.6 kg (30 lb)
VSX-7500S	12.4 kg (27 lb 5 oz)
Other destination models	
VSX-9500S	13.7 kg (30 lb 3 oz)
VSX-7500S	12.9 kg (28 lb 7 oz)

Furnished Parts

FM T-type antenna	1
AM Loop antenna	1
Dry cell battery (LR03/AM-4)	4
Remote control unit	1
Operating Instructions	1
Templates added	2

NOTE:

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

- * Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.
- ** Measured by Audio Spectrum Analyzer.