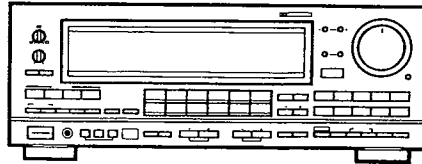


706

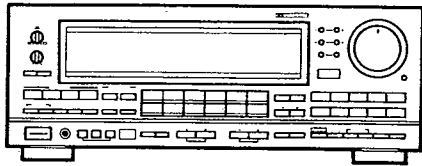
Service Manual



PIONEER®
The future of sound and vision.



(VSX-7500S)



(VSX-9500S)

ORDER NO.
ARZ1838

AUDIO/VIDEO STEREO RECEIVER

VSX-9500S

VSX-7500S

unres

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.

PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada

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VA JUNE 1990 Printed in Japan

VSX-9500S

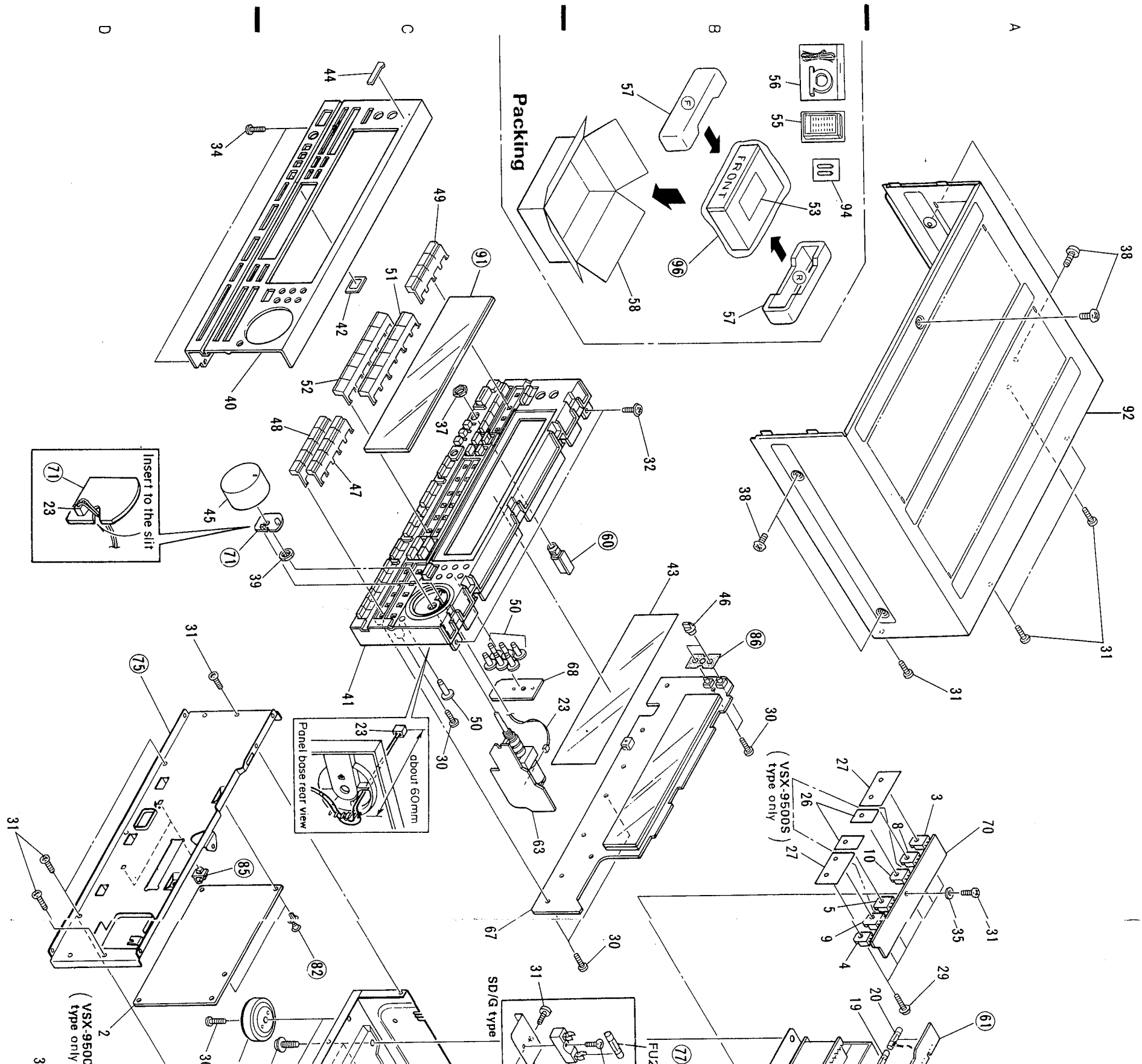
RY(1.5V)

2. EXPLODED VIEWS AND PARTS LIST

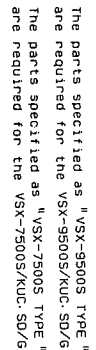
NOTES:

- Parts without part number cannot be supplied.
- The  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 KNOB
	3	2SA1263N	TRANSISTOR Q 7		53	ARB1173	OPERATING INSTRUCTIONS
	4	2SA1263N	TRANSISTOR Q 8		54		REMOTE CONSOLE UNIT
	5	2SA1263N	TRANSISTOR Q 10		55	AXD1100	
	6	2SA1302	TRANSISTOR Q 3		56	AEA1007	ANTENNA KIT
	7	2SA1302	TRANSISTOR Q 4		57	AHA1164	PAD
	8	2SC3180N	TRANSISTOR Q 5		58	AHD1620	PACKING CASE
	9	2SC3180N	TRANSISTOR Q 6		59		HEADPHONE ASSY
	10	2SC3180N	TRANSISTOR Q 9		60		FUSE ASSY
	11	2SC3281	TRANSISTOR Q 1		61	AWZ2507	AF ASSY
	12	2SC3281	TRANSISTOR Q 2		62	AWZ2509	MOTOR-VOL
	13	ATS1205	POWER TRANSFORMER		63	AWZ2509	VIDEO/SUR/CONTROL ASSY
	14	AKX1004	VOLTAGE SELECTOR S 1		64	AWZ2511	
	15	AKM1019	JUMPER PLUG		65		TUNER ASSY
	16	AKP-515	AC SOCKET 3-P		66	AWZ2512	FRONT CONTROL A ASSY
	17	AEK-109	FUSE(6A) FU 3		67	AWZ2513	FRONT CONTROL B ASSY
	18	AEK-109	FUSE(6A) FU 4		68	AWZ2514	METER AMP ASSY
	19	AEK-120	FUSE(1.25A) FU 5		69	AWZ2515	REAR AMP ASSY
	20	AEK-120	FUSE(1.25A) FU 6		70	AWZ2516	
	21	AEK-310	FUSE(10A) FU 1		71		VOL IND ASSY
	22	ADG1031	AC POWER CORD		72		TERMINAL SCREW
	23	ADX1191	2P WIRE ASSY		73		CHASSIS
	24	AMR1434	INSULATOR ASSY		74		REAR PANEL
	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 SUPPORT
	30	ABA-298	SCREW		80		JACK HOLDER
	31	ABA1009	SCREW		81		PIN GROMMET
	32	ABA1011	SCREW		82		PCB SUPPORT
	33	ABA1034	SCREW		83		PCB HOLDER
	34	ABA1048	SCREW		84		PCB SUPPORT
	35	ABE-053	WASHER		85		BLIND SHEET
	36	ABF1018	BUSH		86		
	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	AZNI804	BONNET CASE
	43	AAK1513	PVC FILTER		93		AM4 BATTERY(1.5V)
	44	AAK1029	NAME PLATE (METAL)		94		
	45	AAB1056	ROTARY KNOB		95		SHEET
	46	AAB1078	ROTARY KNOB S		96		
	47	AAD1394	HINGE KNOB				
	48	AAD1395	HINGE KNOB				
	49	AAD1396	HINGE KNOB				
	50	AAD1398	TACT KNOB				

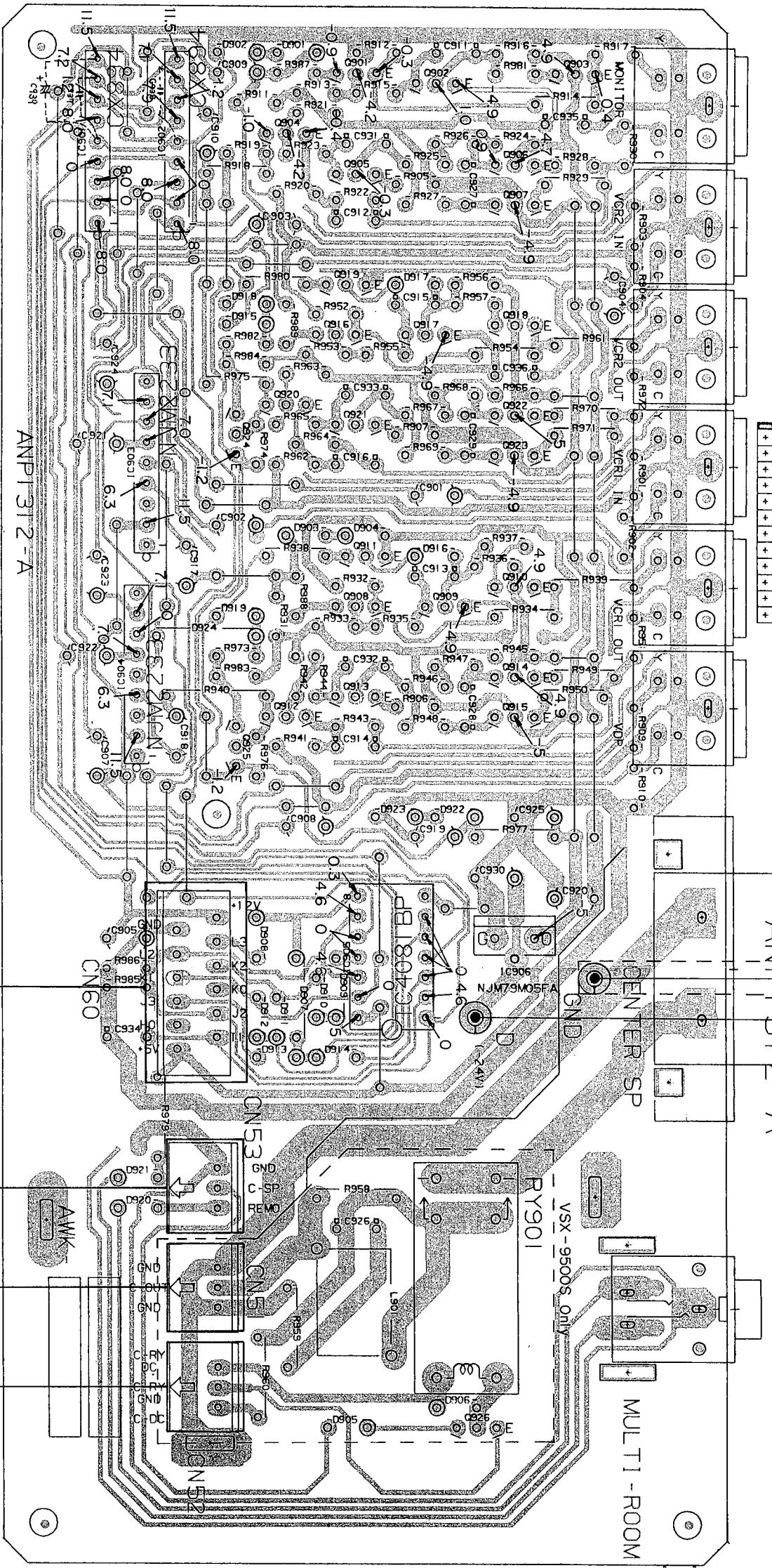


3.1 OVER ALL SCHEMATIC DIAGRAM



3.2 S TERM./CENTER SP assembly (AWK1219)

A S TERM./CENTER SP assembly (AWK1219)



VSX-9500S Only
TO AF ASSEMBLY TERM E (P27)
TO AF ASSEMBLY TERM D (P27)

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)

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RV	Relay
L	Coil
F	Filter
VR	Variable resistor or Semifixed 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.

Q901 - Q907 Q916 - Q924 Q908 - Q915 IC903 Q925

IC906 IC905

Q926

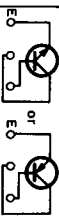
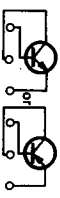
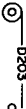
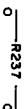
TO VIDEO/SUR/CONTROL ASSEMBLY J60 (P37)

TO AF ASSEMBLY J52 (P27)
TO REAR AMP ASSEMBLY J51 (P39)

TO VIDEO/SUR/CONTROL ASSEMBLY J53 (P38)

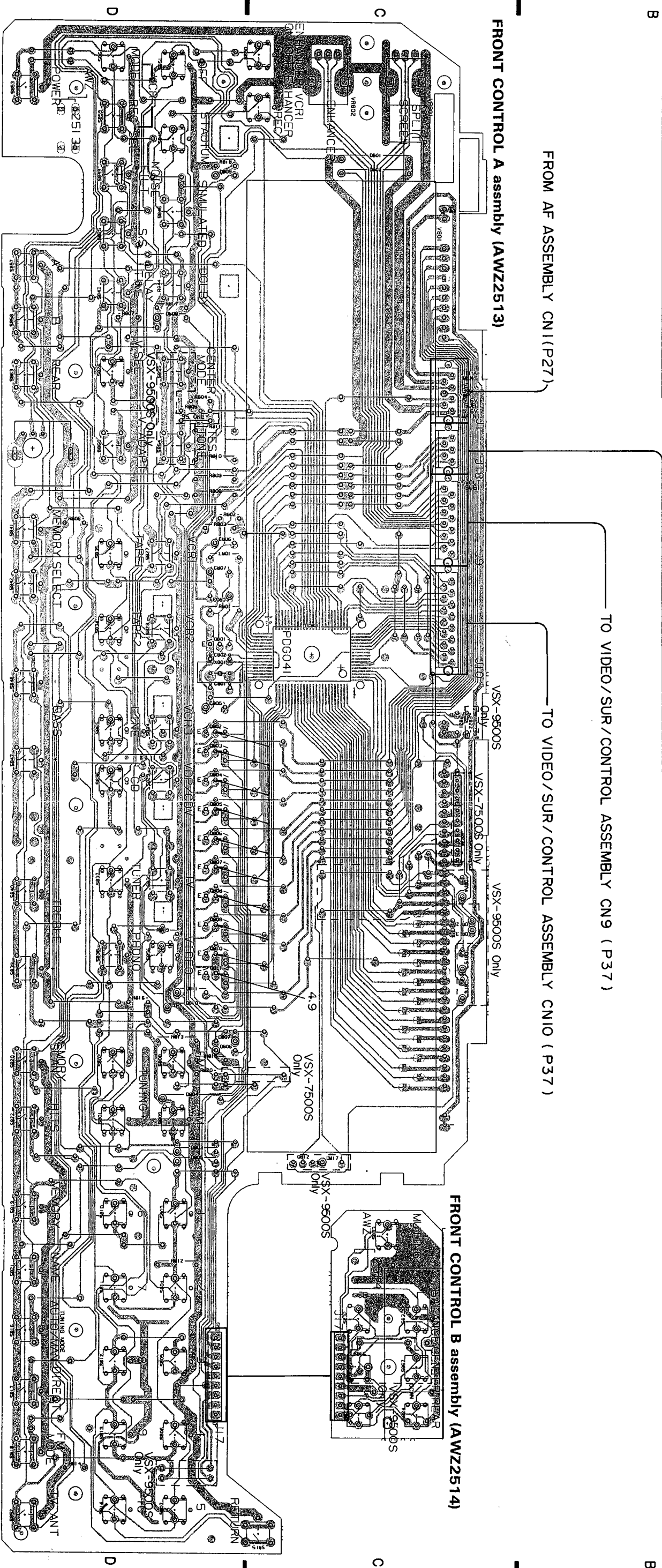
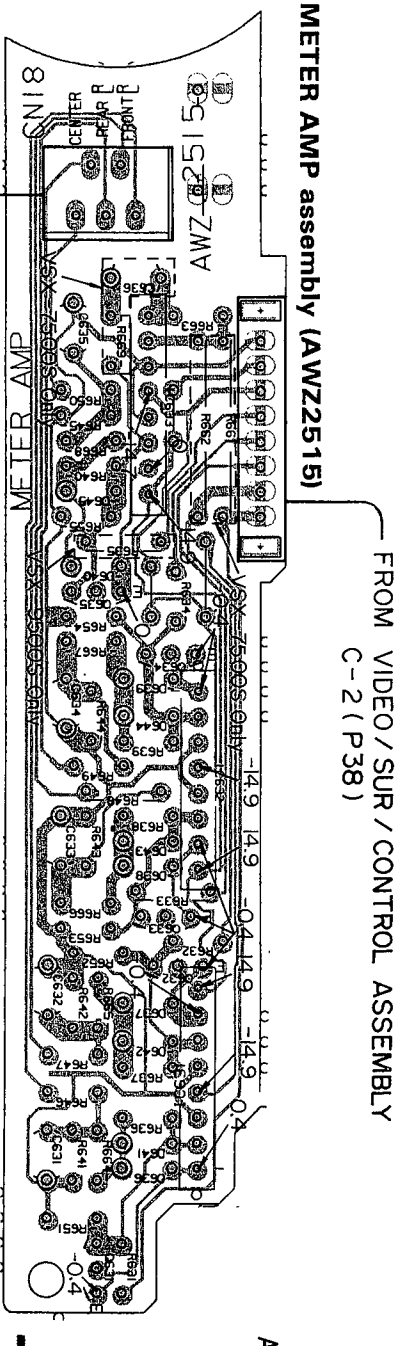
NOTE

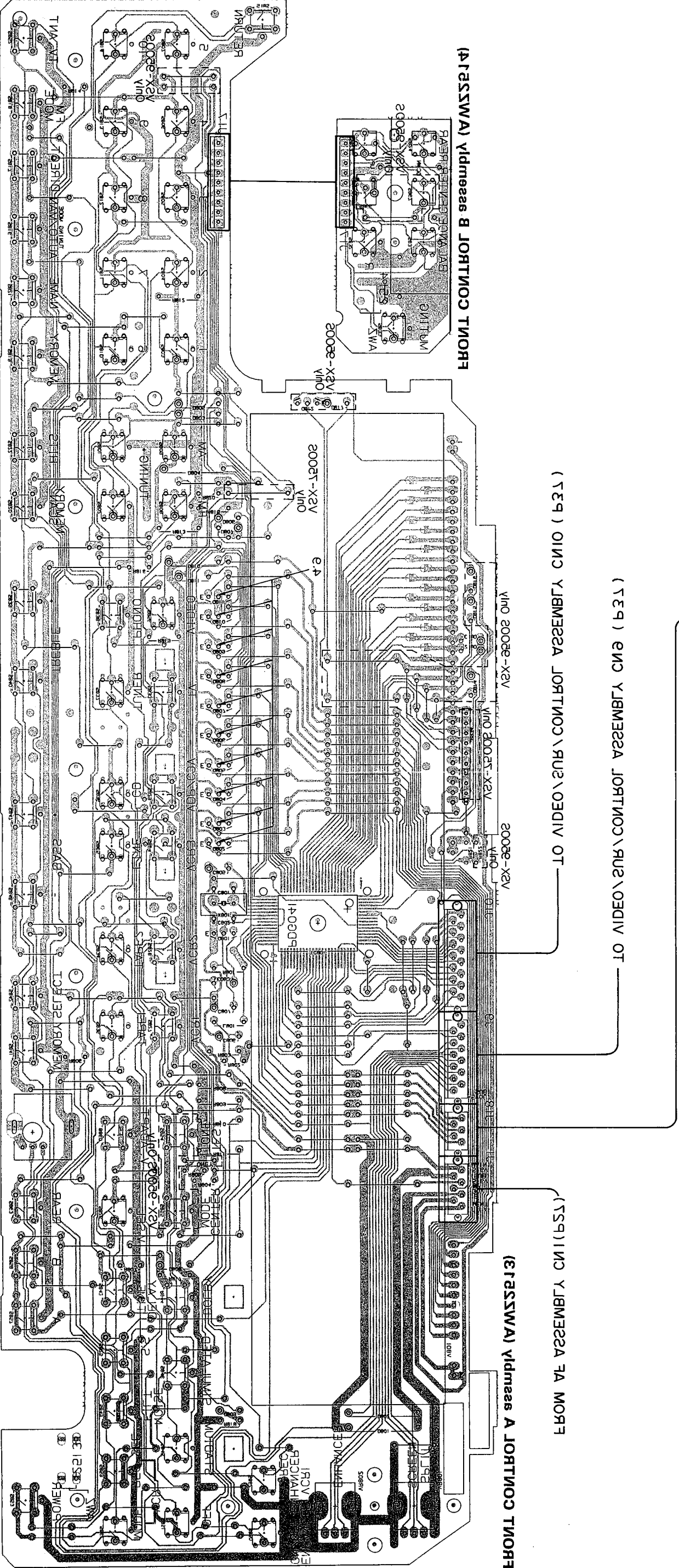
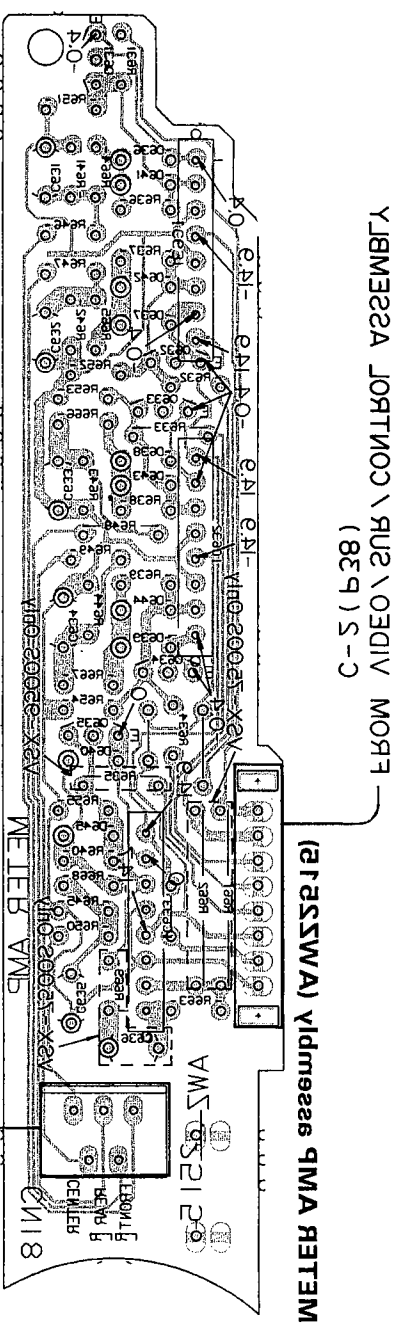
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Resistor 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 $\ominus$ (double circles) shows negative terminal.
4. The diode terminal marked with $\ominus$ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



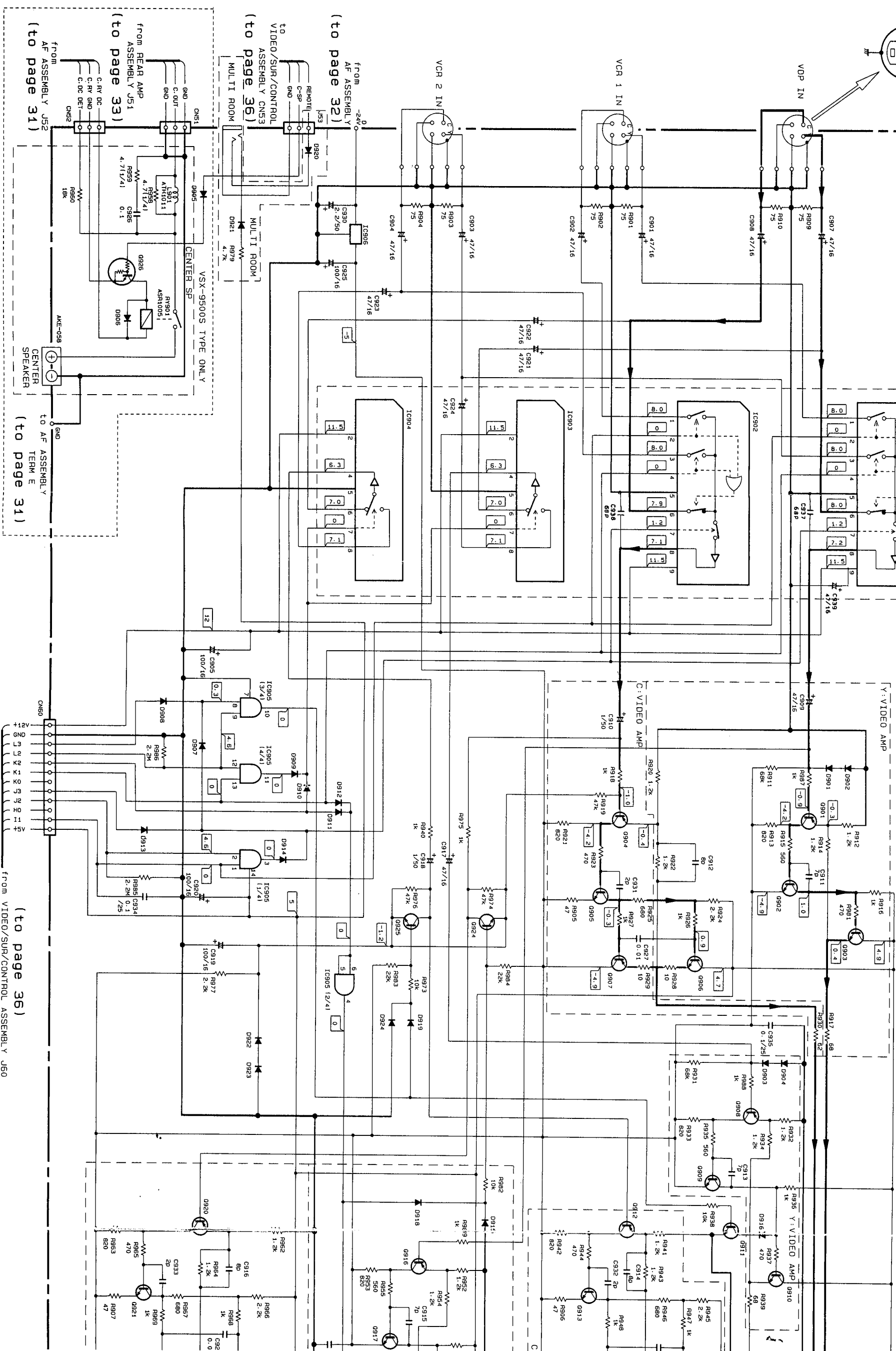


S TERM./CENTER SP ASSEMBLY (AWK1219:VSX-9500S/KUC.SD/G)
S TERM./MULTI ROOM ASSEMBLY (AWK1222:VSX-7500S/KUC.SD/G)



IC901, 902	CX-894	0903, 910, 918	25C17405
IC903, 904	NUM2233BS	0902, 905, 906, 25C258	
IC906	NUM79M05FA	0909, 911, 913.	The pa
IC905	TC4081BP	0914, 917, 919.	are re
0926	RM1201	0921, 922	
0901, 904, 907, 25A1048		0924, 925	25C2678
0908, 912, 915.		0901-924	ISS2E2
0916, 920, 923.			The pa

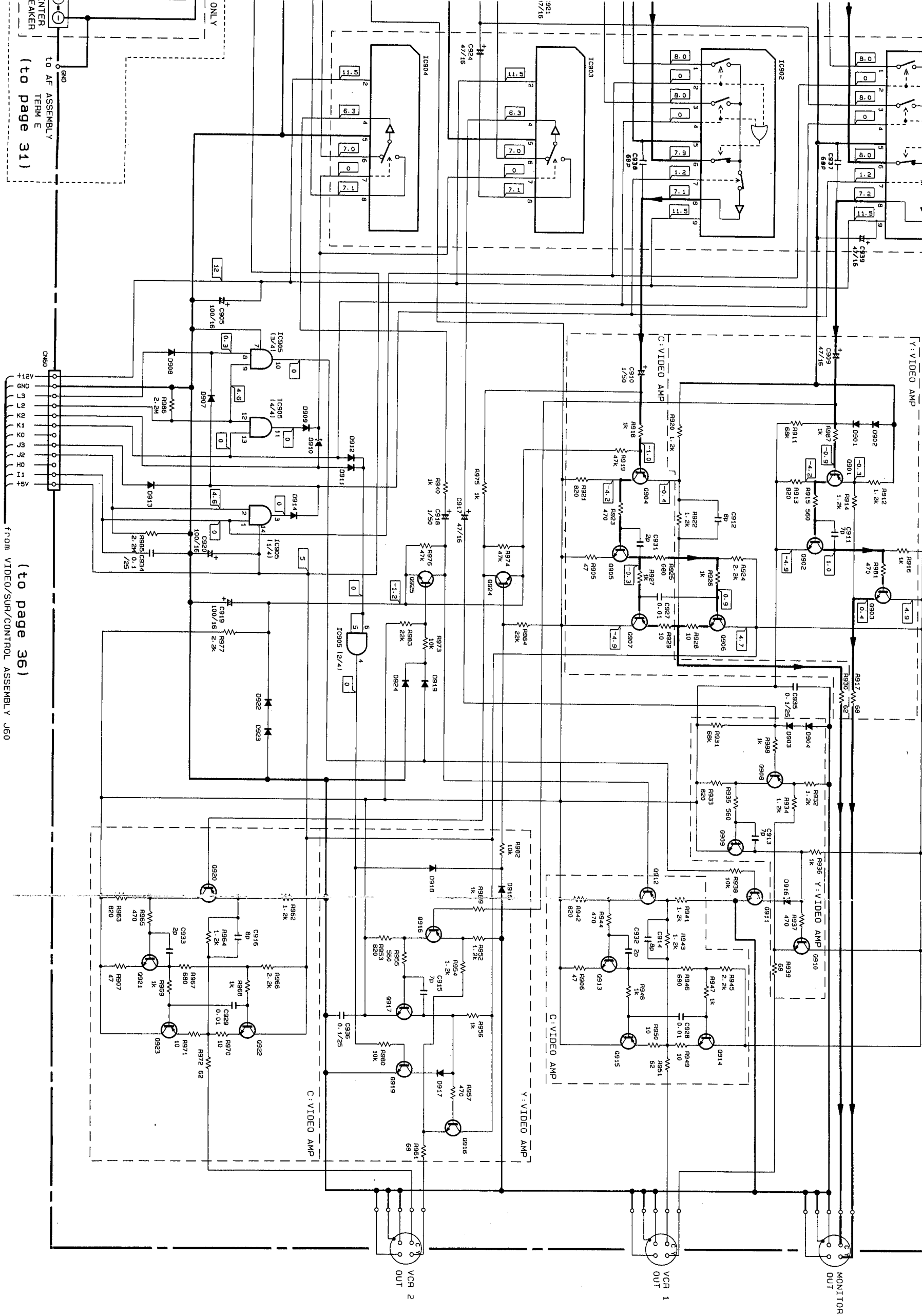
Note:
The pa
are re
The pa
are re



SEMBLY (AWK1219:VSX-9500S/KUC.SD/G)
SEMBLY (AWK1222:VSX-7500S/KUC.SD/G)

IC901, 902	CX-894	0903, 910, 918	2SC1740S
IC903, 904	NJM2238S	0902, 905, 906, 2SC245B	
IC905	NJM79M05FA	0909, 911, 913,	
	TC4081BP	0914, 917, 919,	
		0921, 922	
0926	RN1201	0924, 925	2SC2E78
0901, 904, 907, 25A104B			
0908, 912, 915,			
0916, 920, 923,			
		0901-924	1SS2E2

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



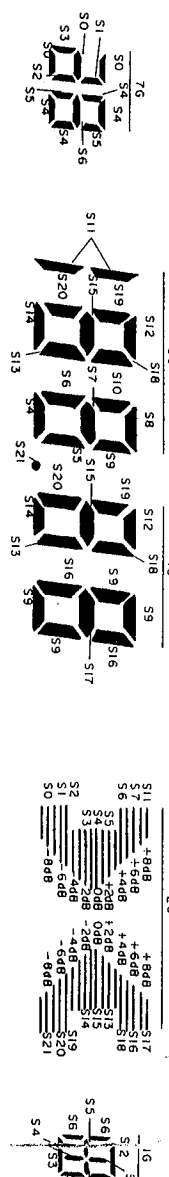
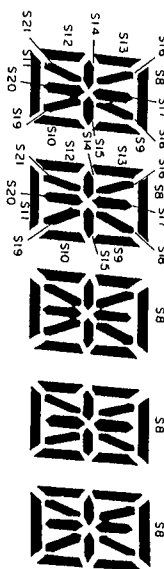
(to page 31)

(to page 36)

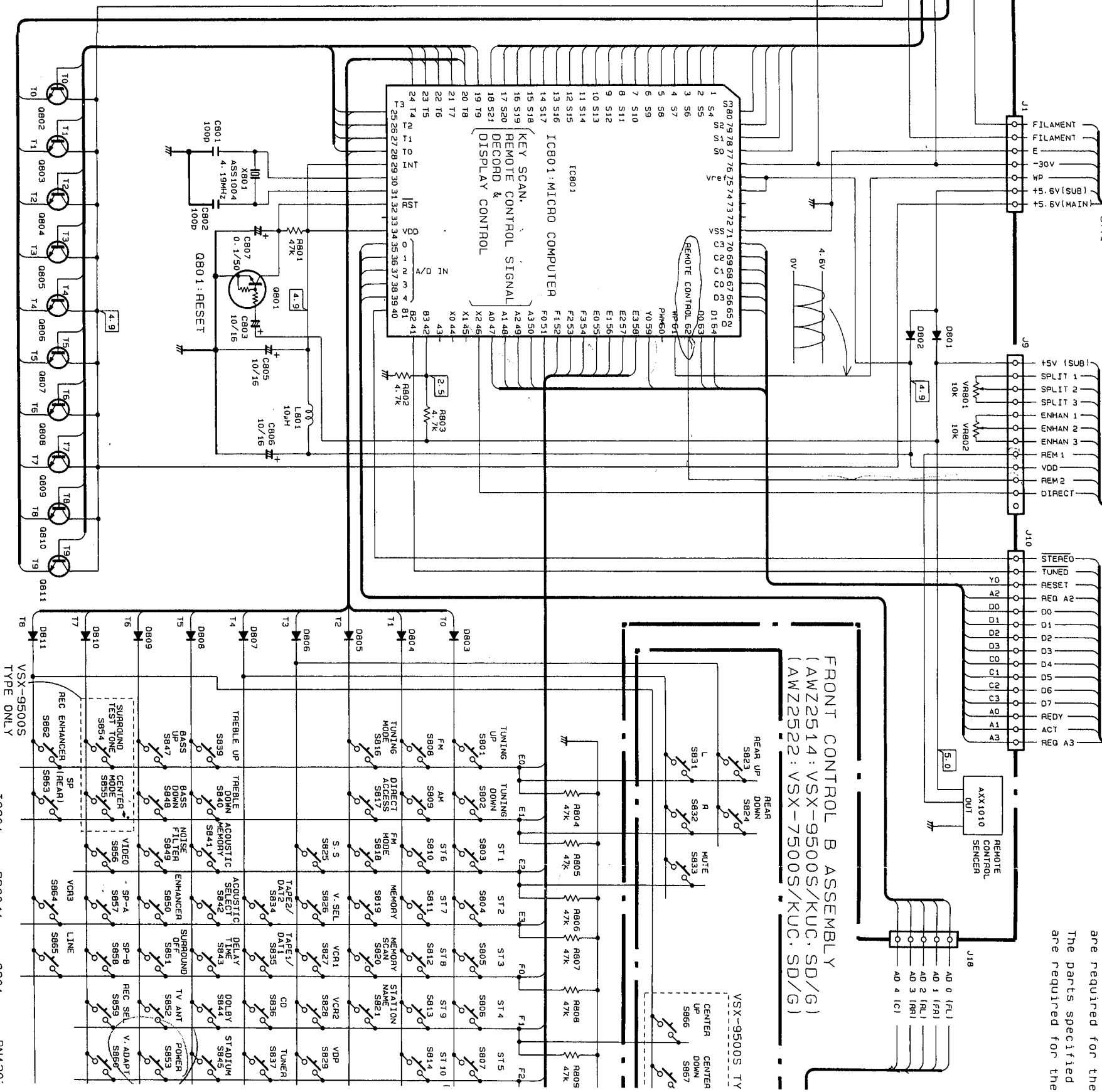
from VIDEO/SUR/CONTROL ASSEMBLY J60

FRONT CONTROL A ASSEMBLY

VSX-9500S TYPE ONLY

[illegible]

Note:
The parts specified
are required for the
The parts specified
are required for the



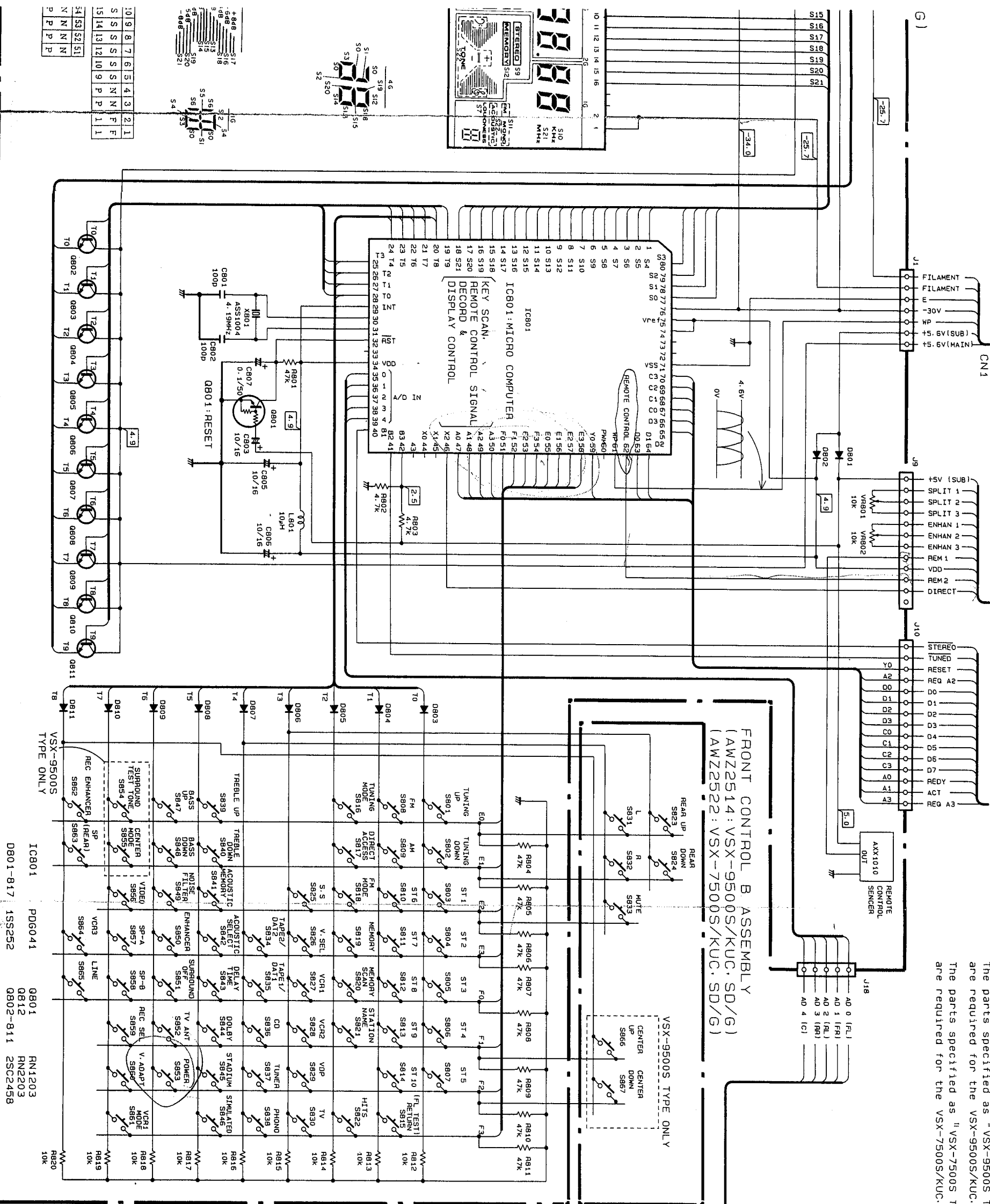
(to page 32)
from AF ASSEMBLY

```
(to page 36)
to VIDEO/SUR/CONTROL CNS
```

(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



METER AMP ASSEMBLY

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

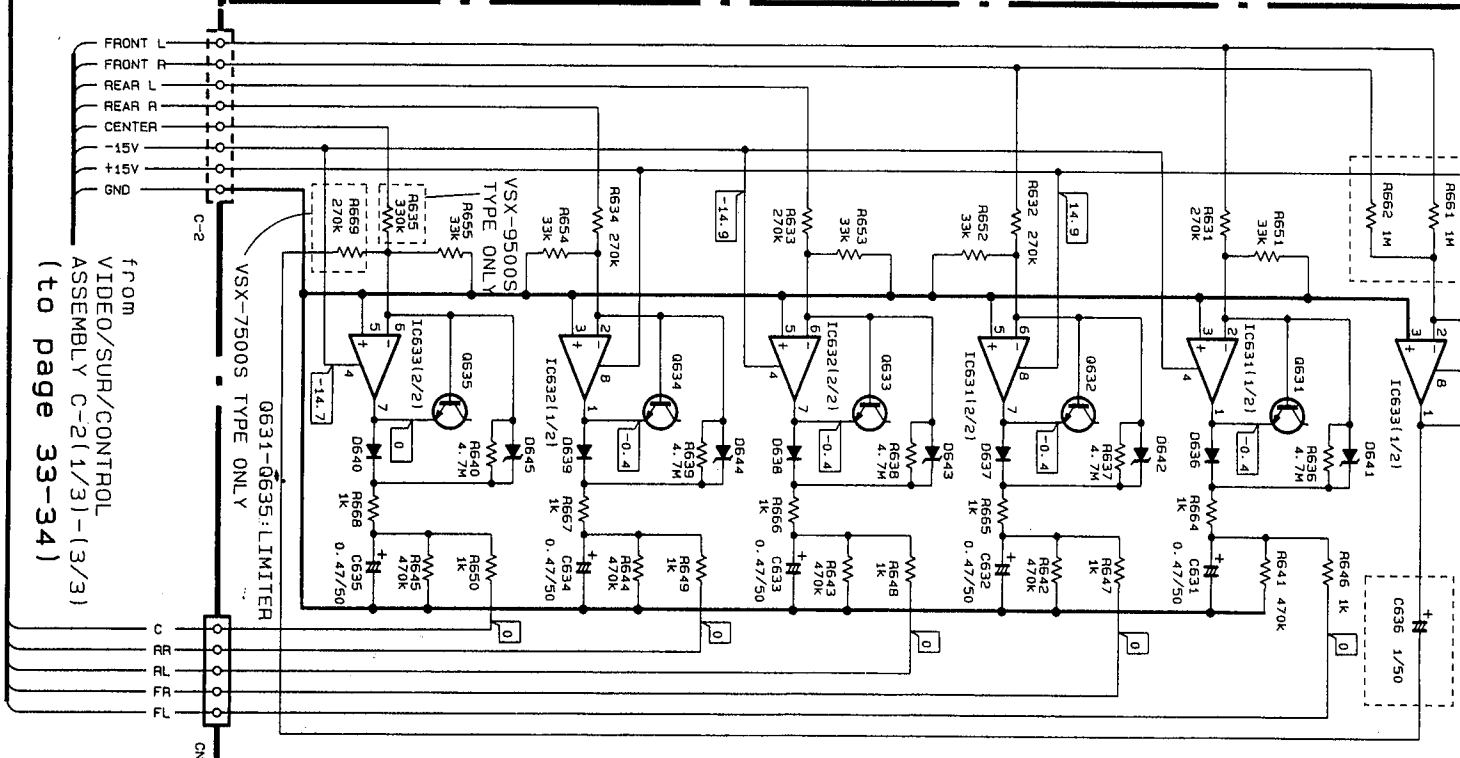
IC631, IC632, IC633(2/2)
METER AMP

IC631-633 M521BLP

VSX-7500S TYPE ONLY R663 680K

0641-645 RU5. 6E3
0636-640 1SS252

VSX-7500S TYPE ONLY



TO VIDEO\SUB\CIITRO. ASSEMBLY 44 (P38) (839)

201

BM32A PMA P43P OT
(239) EL

(T02525WA) yldmess6 7A

TO TURN
ASSEMBLY
C-1 (P2e)

TO VIDEO\SUB\CONTROL
ASSEMBLY
CNE (P38)

TO VIDEO\SUB\CONTROL ASSEMBLY
CMI1(P37)

(e0555WA) yldmssas JOV ROTOM

YJBM32A C100J 0R9 OT
(029) 4215

VOG IND assembly



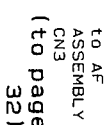
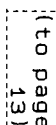
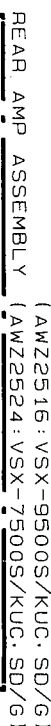
VIDEO/SUR/CONTROL ASSEMBLY 1/2 (AWZ2511:VSX-9500S/KUC.SD/G) (AWZ2520:VSX-7500S/KUC.SD/G)

MAIN ROUTE

SUB ROUTE AND DIGITAL SIGNAL
(BEFORE DELAY)

DELETED SIGNAL

DIGITAL SIGNAL
(AFTER DELAY)



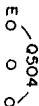
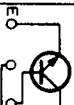
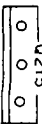
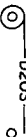
④ (to page 32)

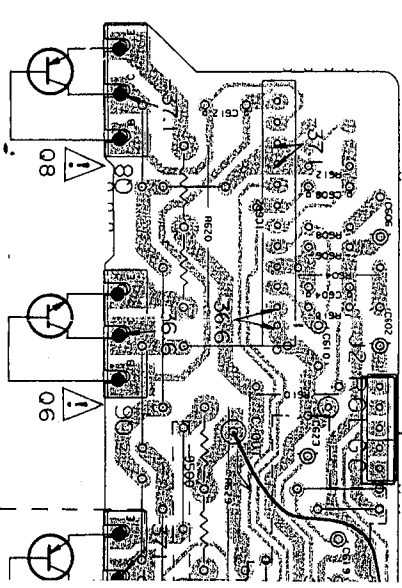
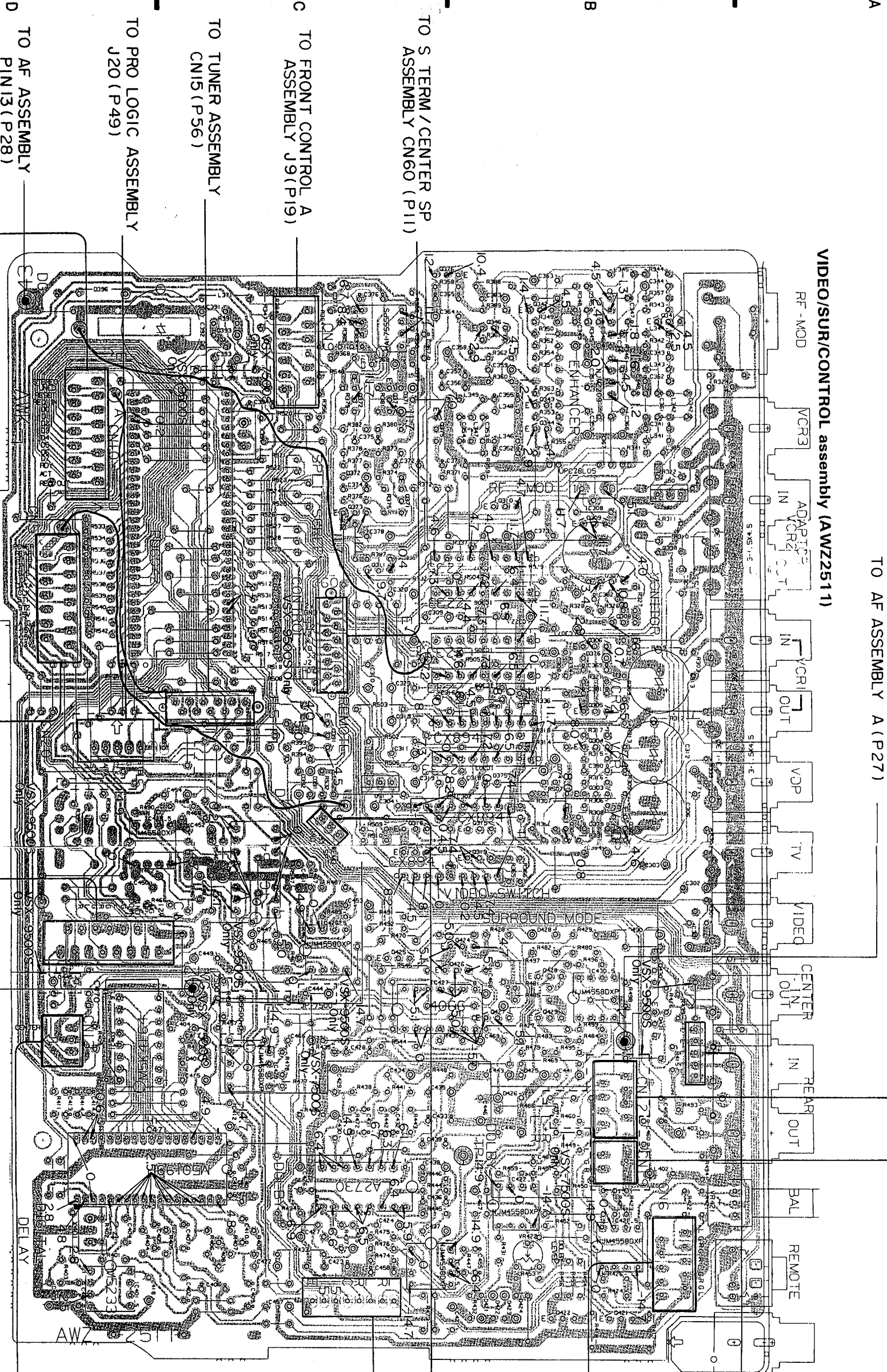


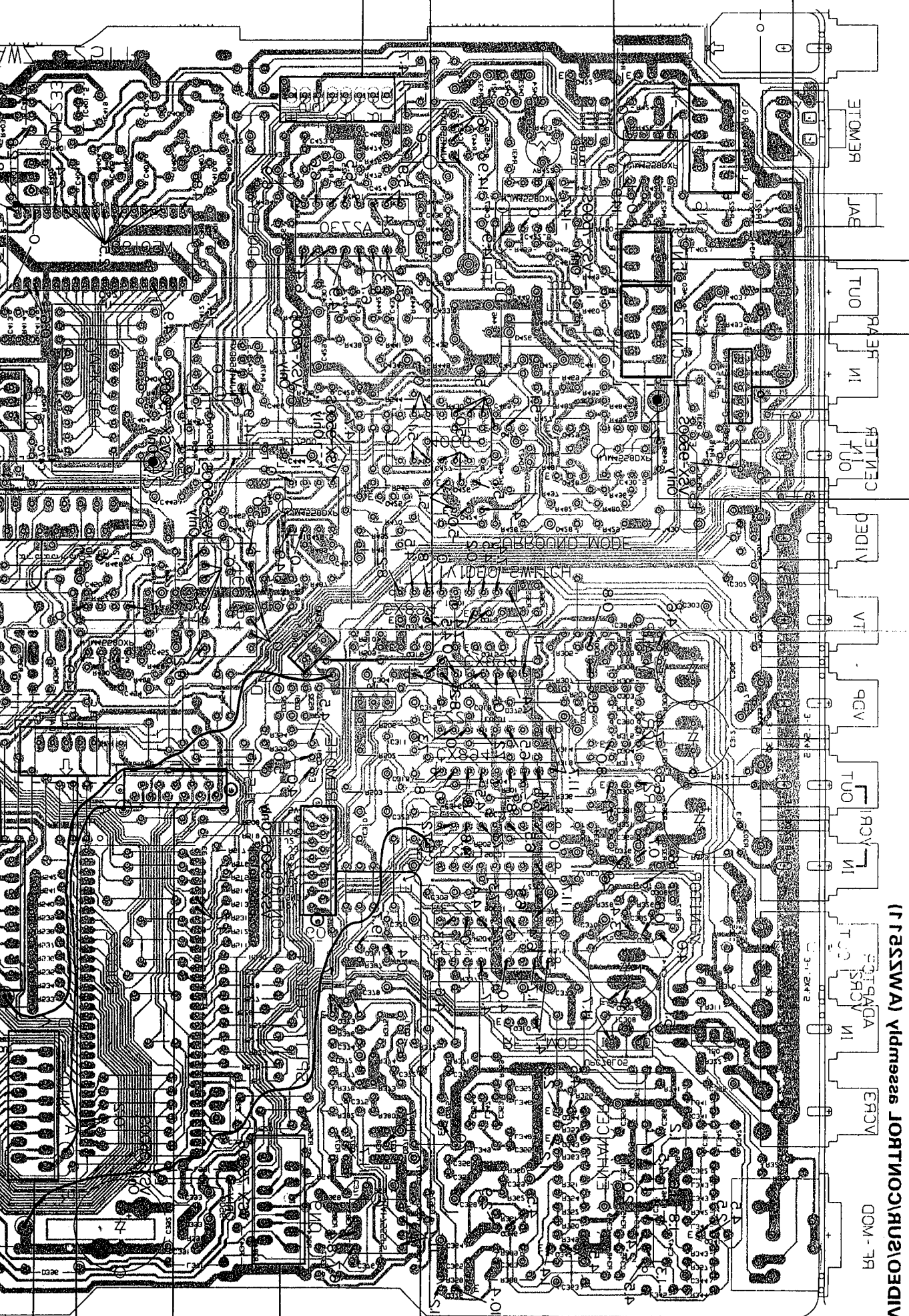
1 (to page 32)
from PRO LOGIC ASSEMBLY J13 (PCB)
(VXS-9500 TYPE) (to page 48)
from AF ASSEMBLY (VXS-7500 TYPE) (to page 32)
J13 (to page 32)
C RE RE
to AF ASSEMBLY J5-
(to page 18)

NOTE

1. This P.C.B. connection diagram is viewed from the top of the board.
2. The parts which have been mounted on the board with the corresponding wiring symbols listed in the

P.C.B. pattern diagram indication	Corresponding p
	
	
	
	
	
	





00 2 TERM\ CENTER 2P
- (111) ASSEMBLY CNOO (P11)

A JORTNOC TNOF OT
(eip)el YJBM32A

YJBM32A 7A OT
(8S9)EIM19

(TS9) A YJBM32A 7A OT

VIDEO\SUB\CONTROL\ASSEMBLY (17525WA) yldmssa

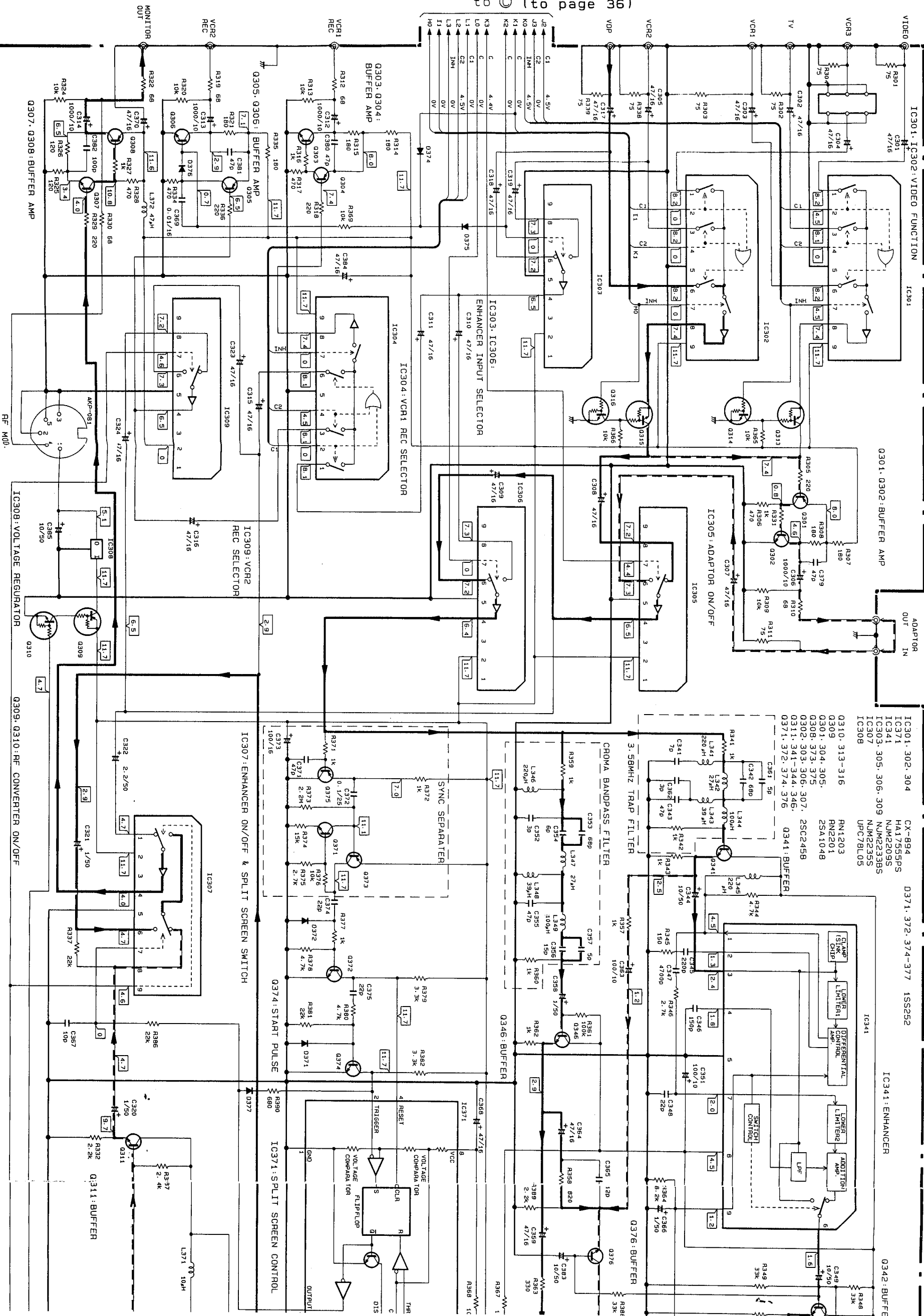
YJBM32A PART 07
CN12(P28)

YJMB32A CIGOL ORP 07
(EP9) OSU

YJBM322A 7A OT
(859) 31W19

(TS9) 2L YJBM322A 7A OT

OT TИOPIИ KOHTPOЛЯ A CCEMБЛЬЮ (1919)



to (to page 36)

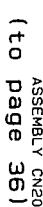
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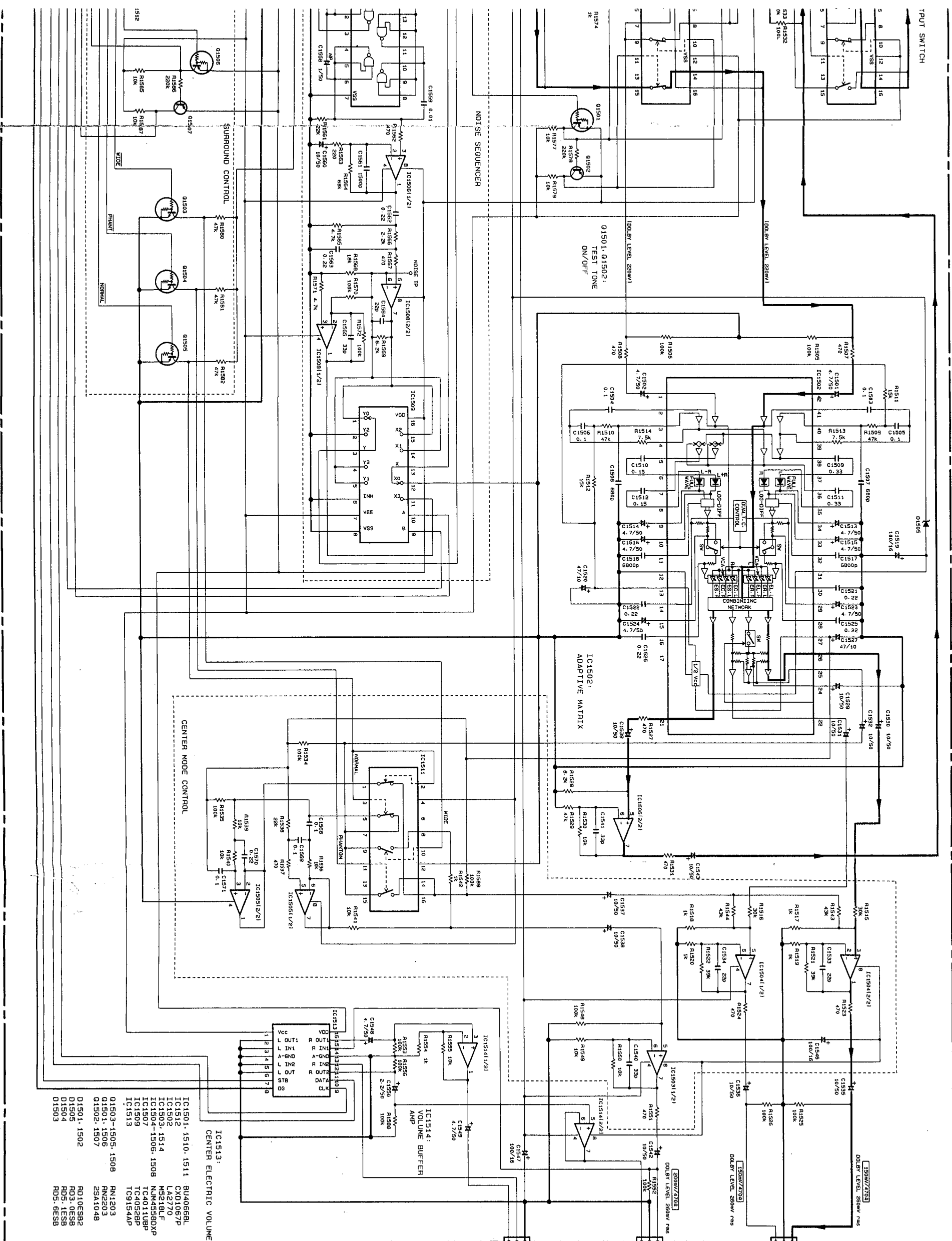
to (to page 36)

(to page 36)

PRO LOGIC ASSEMBLY (AWX1025)

$\frac{1}{H}$





- IC1501, 1510, 1511 BU4068L
IC1512 CXD1067P
IC1502 LA2770
IC1503, 1514 MS218LF
IC1504, 1506, 1508 NJM4558DP
IC1507 TC4011UBP
IC1509 TC4052BP
IC1513 TC9154AP
IC1503-1505, 1508 RN1203
IC1501, 1506 RN2203
IC1502, 1507 SSA104B
IC1501, 1502 RD10ESB2
IC1503, 1505, 1508 RD5, 1ESB
IC1504 RD5, 1ESB
IC1503 RD5, 6ESB

IC1502	IC1503
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
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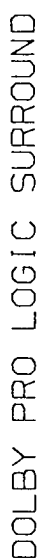
MOTOR VR
ASSEMBLY J11
(to page 31)

VIDEO/SUR
CONTROL
ASSEMBLY CN13
(to page 34)

VIDEO/SUR
CONTROL
ASSEMBLY CN19
(to page 33)

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 $\ominus$ (double circles) shows negative terminal.
4. The diode terminal marked with $\oplus$ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



TO VIDEO/SUR/CONTROL
ASSEMBLY CN19 (P38)

TO MOTOR VOLUME ASSEMBLY J54 (P26)

IC1504
IC1503 IC1514
IC1513

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

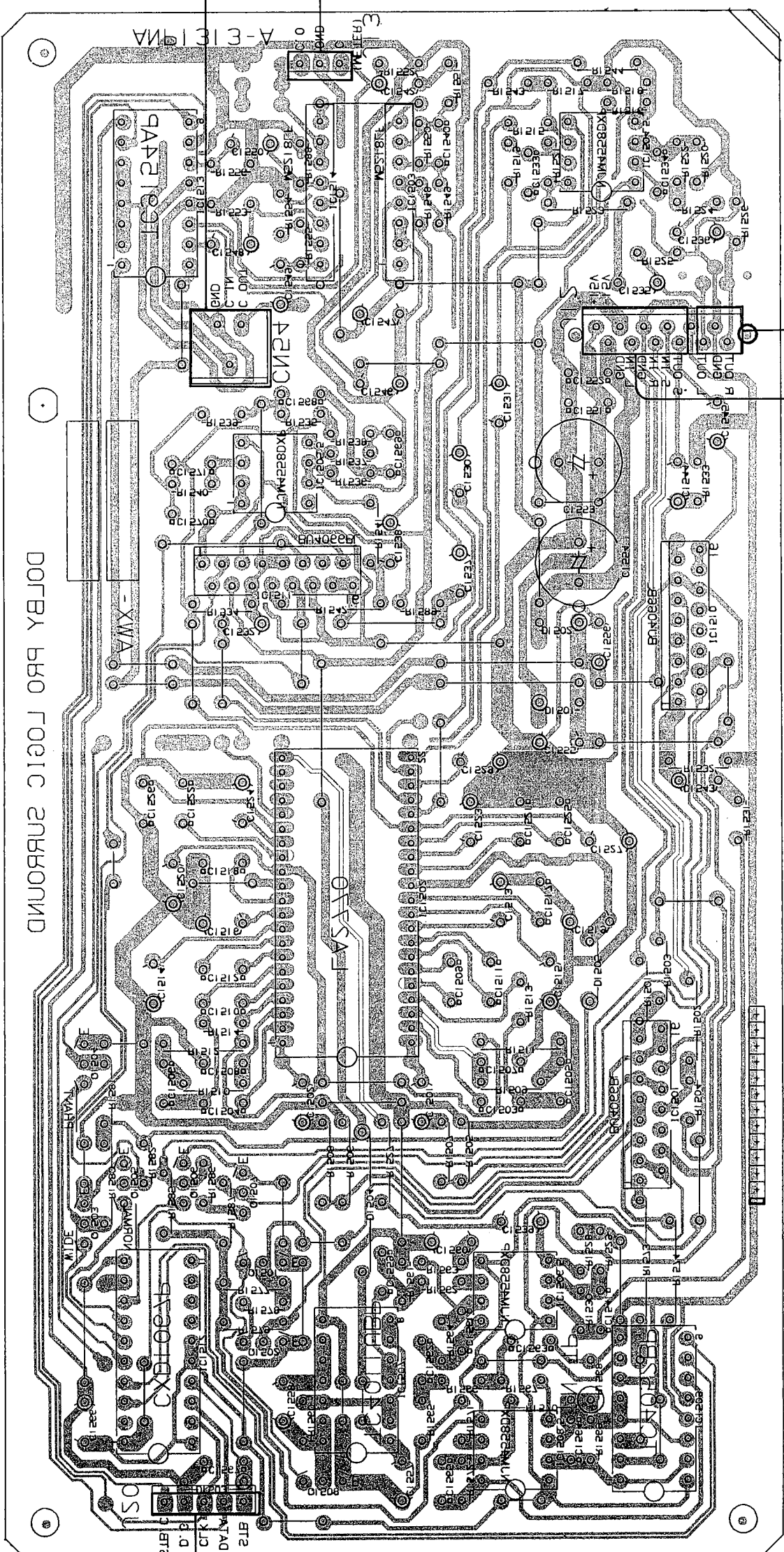
A

A

OT VIDEO\SUB\CONTROL
ASSEMBLY CINE (P38)

JOINTINCO\AUS\VIDEO\OT
(899) SIN YJBM22A

PRO LOGIC assembly (2501XWA) yldm888



DOLBY PRO LOGIC SURROUND

40204

4/2/21 3:02/21

IC1202

IC1213

1121

IC 1210

IC1205

10201

IC120e

C1208

IC1201

C120a

1208

OT TOMPOB EMUJEM AJBMBY JEL (959)

OT VIDEO\SUB\CONTROL ASSEMBLY CMI3 (P38) (839)

(P37) OT DIV003\JOURNAL ASSEMBLY CISO (P37)

2

11

C

51

1

01

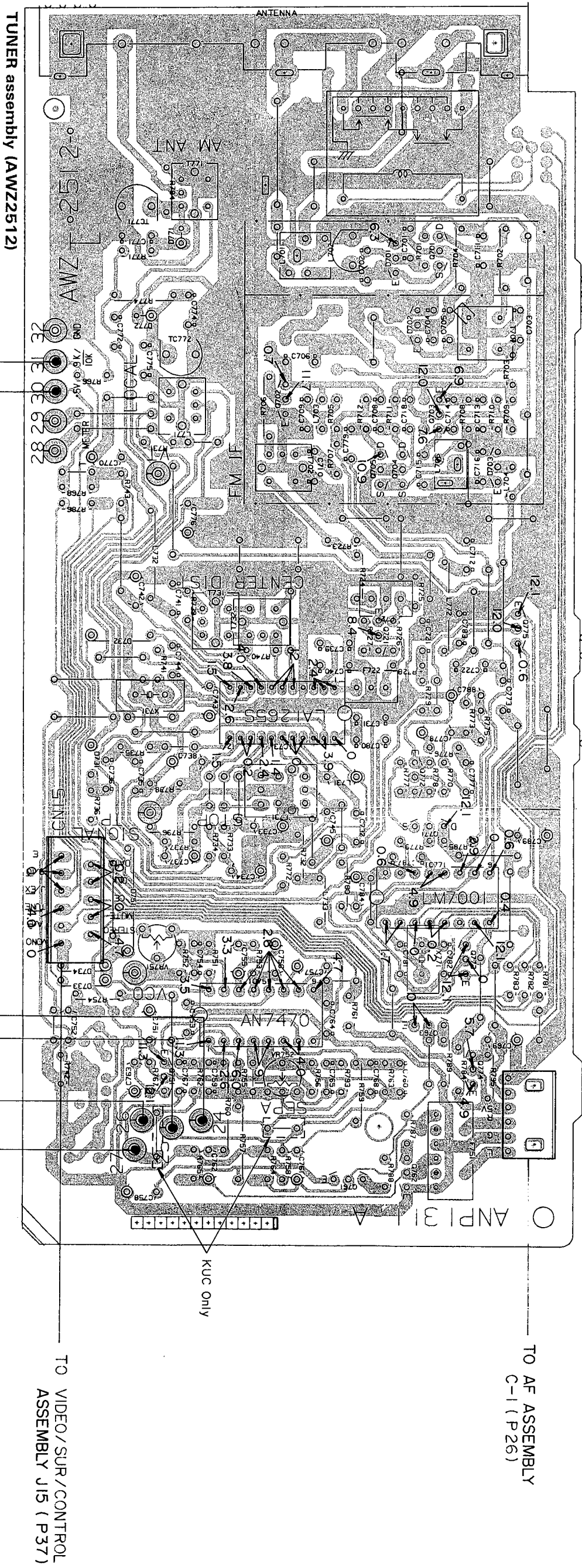
7

3

15

5

3.8 TUNER assembly (AWZ2512)



TO AF ASSEMBLY
C-1 (P26)

TO VIDEO/SUR/CONTROL
ASSEMBLY J15 (P37

KUC Only

SD / G Only

75 μ S 50 μ S
10K/100K 9K/50K

S4

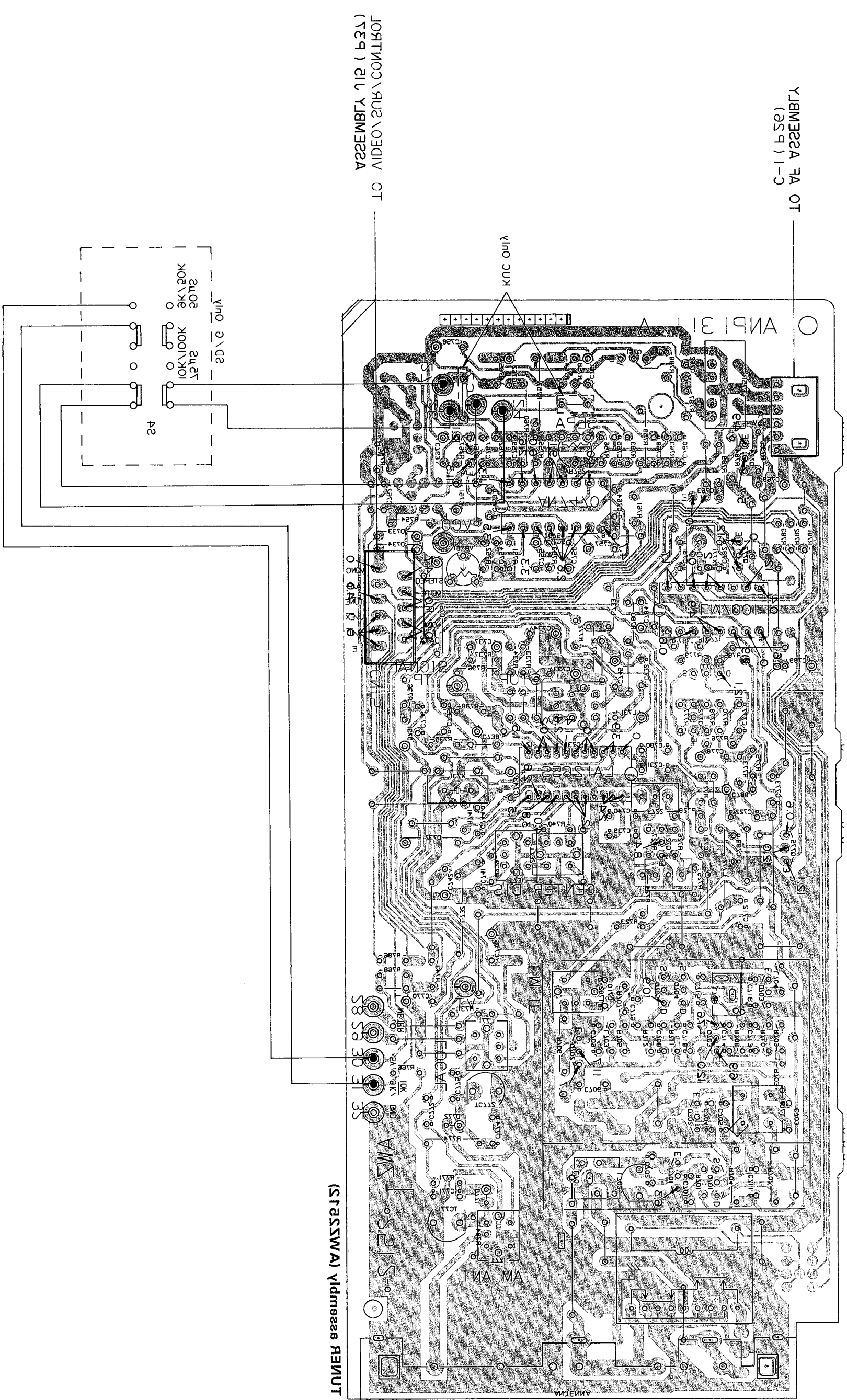
Part Name	Corresponding part symbol	P.C.B. pattern diagram indication
Transistor		
Radiator type transistor		
Diode		
Resistor		
Capacitor (Polarity)		
Capacitor (Non-polarity)		

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

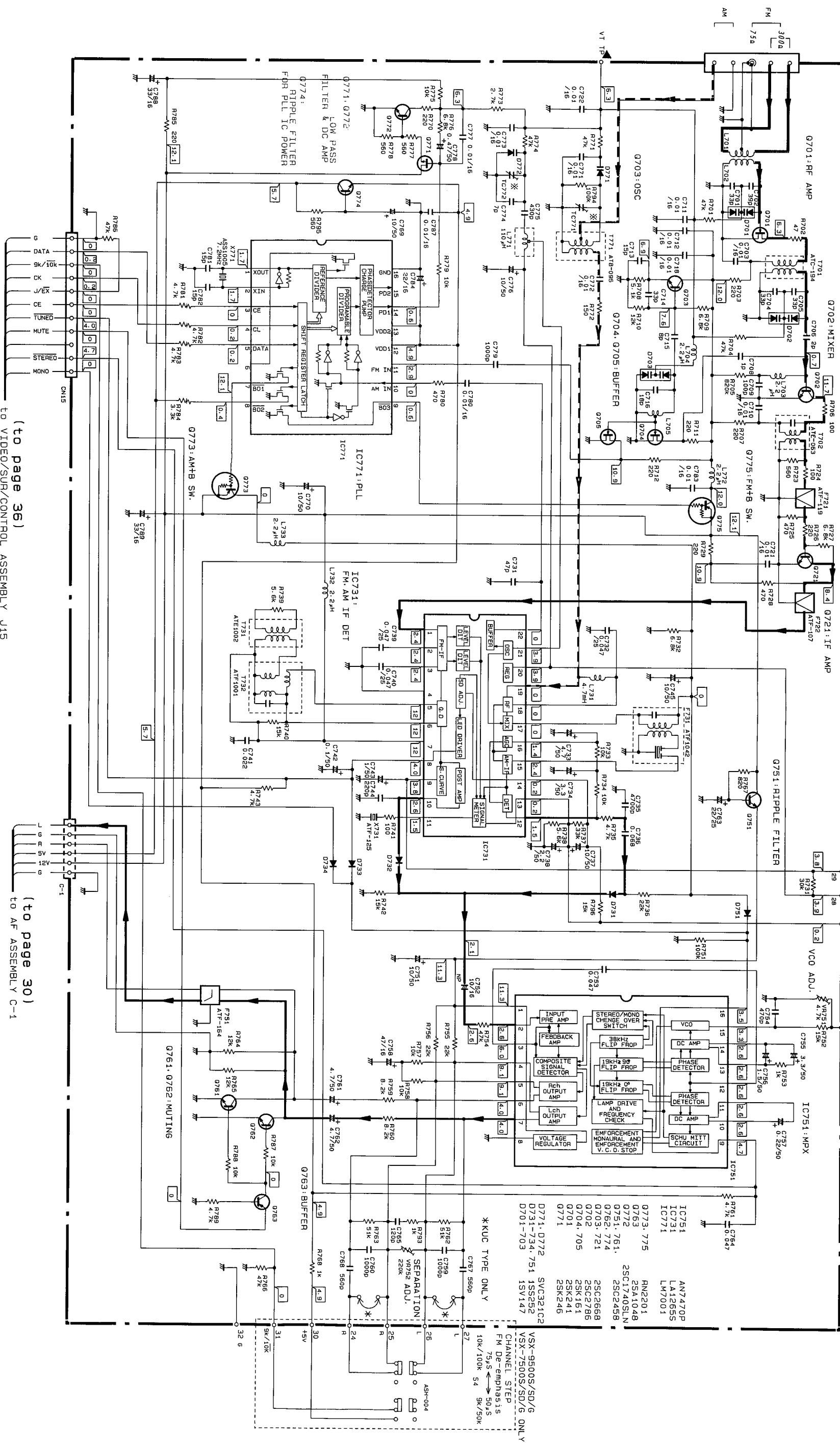
NOTE

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.

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.



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