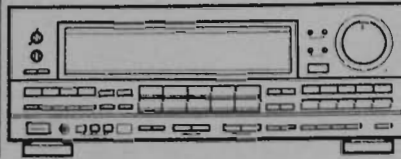


Service Manual



ORDER NO.
ARP1596

AUDIO/VIDEO STEREO RECEIVER

VSX-9300S

VSX-7300S

VSX-7300

VSX-9300S, VSX-7300S/KUC, SD/G AND VSX-7300/KUC HAVE TWO VERSIONS:

Type	Applicable model			Power requirement	Destination
	VSX-9300S	VSX-7300S	VSX-7300		
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-9300S/KUC, VSX-7300S/KUC, SD/G and VSX-7300/KUC types.
- As to the VSX-7300S/KUC, SD/G and VSX-7300/KUC types, please refer to pages 79 .
- For the VSX-7300/KUC type is attached to standard type remote control unit, while for the VSX-7300S/KUC type is attached to programable remote control unit.

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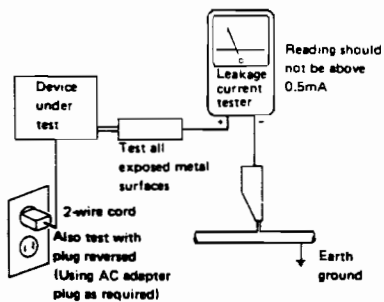
1. SAFETY INFORMATION

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.

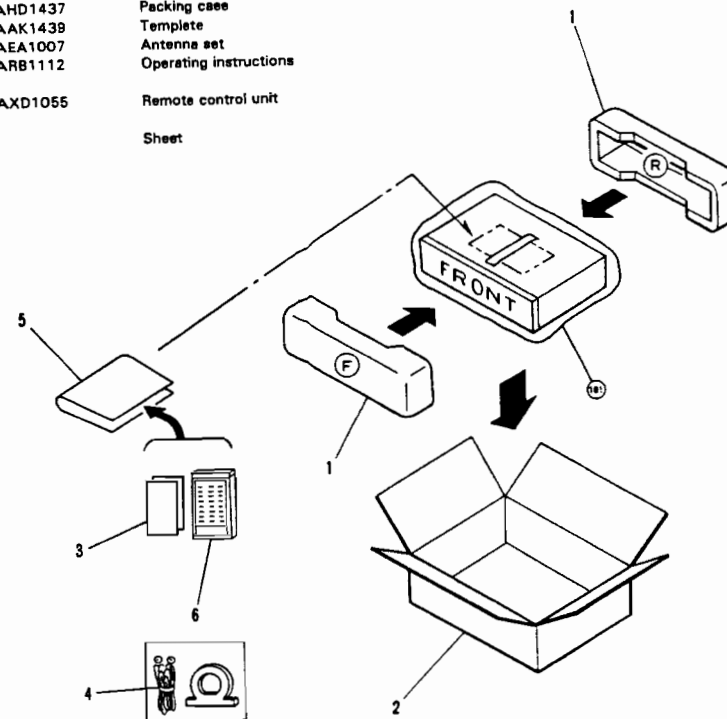
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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

2. PACKING

Parts List of Packing

Mark	No.	Parts No.	Description
	1	AHA1164	Front rear pad
	2	AHD1437	Packing case
	3	AAK143B	Templete
	4	AEA1007	Antenna set
	5	ARB1112	Operating instructions
	6	AXD1055	Remote control unit
101			Sheet



3. 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.
- For your parts Stock Control, the fast moving items are indicated with the marks ** and *.
**** GENERALLY MOVES FASTER THAN ***
 This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Mark	No.	Parts No.	Description	Mark	No.	Parts No.	Description
	1	AWX1016	Pro logic assembly		32	AEC-818	Mica sheet
	2	AWZ1961	AF assembly			(AEC1140)	
	3	AWZ1965	VIDEO/SUR/CONTROL assembly		33	AEC1123	Mica sheet
	4	AWZ1966	Tuner assembly		34	ABA-297	Screw
	5	AWZ1967	Front control A assembly		35	ABA-298	Screw
Δ ★★	6	2SA1263N	Transistor (Q7,Q8)		36	ABA1009	Screw
Δ ★★	7	2SA1302	Transistor (Q3,Q4)		37	ABA1011	Screw
Δ ★★	8	2SC3180N	Transistor (Q5,Q8)		38	ABA1034	Screw
Δ ★★	9	2SC3281	Transistor (Q1,Q2)		39	ABA1048	Screw
Δ ★	10	ATS1144	Power transformer (AC120V,T1)		40	ABA1083	Screw
					41	FBT40P080FZK	Screw
Δ	11	AKP-515 (AKP-504)	AC socket (3P OUTLET)		42	ABN-085	Nut
Δ ★★	12	AKX1004	Speaker impedance selector		43	NK90FUC	Nut
Δ ★★	13	AEK-109	Fuse (8A/125V,FU3,FU4)	Δ ★★	44	ADG1031 (ADG1001)	AC power cord
Δ ★★	14	AEK-310	Fuse (10A/125V,FU1)		45	AEK-120	Fuse (1.25A/125V, FU5, FU8)
	15	AMR1434	Insulator assembly		46	ABE-081	Washer
	16	AMR1435	Insulator assembly		47	AKM1019	Jumper Plug
	17	AAB1056	Rotary knob (VOLUME)		48	ADX1191	2P lead wire
	18	AA81078	Rotary knob S (SPLIT SCREEN,ENHANCER)		49	ABA1012	Screw
	19	AAD1390	Function knob (VCR1,VCR2,VDP/CDV,TV, VIDEO ADAPTOR)		50	VMZ28P040FZK	Screw
	20	AAD1391	Function knob (TAPE1/DAT1,TAPE2/DAT2 MONITOR,TUNER,PHONE)		101		Headphone assembly
	21	AAD1394	Hinge knob (*1-*5)		102		Motor-volume assembly
	22	AAD1395	Hinge knob (*6-*0)		103		Terminal assembly
	23	AAD1398	Hinge knob (OFF, STADIUM, SIMULATED SURROUND, DOLBY SURROUND, PRO LOGIC)		104		Front control B assembly
	24	AAD1398	Tact knob (REAR LEVEL, BALANCE)		105		Meter amp assembly
	25	AAK1323	Filter		106		Rear amp assembly
	27	AAK1513	PVC filter		107		Vol IND assembly
	28	AAK1519	Acrylic panel		108		Terminal (GND)
	28	AAM-030	Badge		109		Chassis
	29	AAM1349	Panel base		110		Rear panel
	30	AN81205	Front panel		111		Panel stay
	31	AZN1804	Bonnet case		112		Bottom plate
					113		Heat sink
					114		Sub heat sink
					115		Pin grommet
					116		P.C.B. suport
					117		P.C.B. holder
					118		Blind sheet

1

2

3

4

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A

B

C

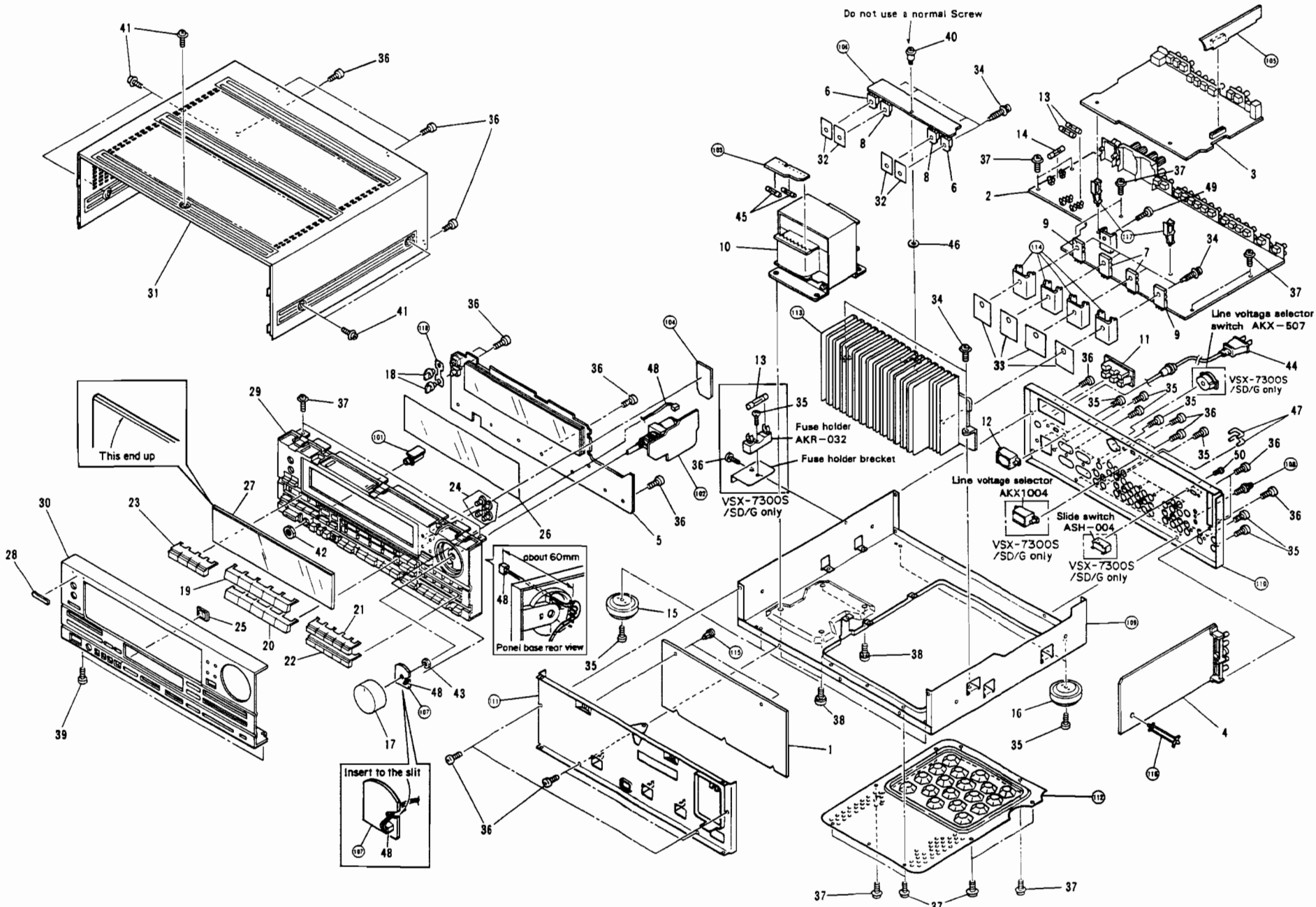
D

A

B

C

D



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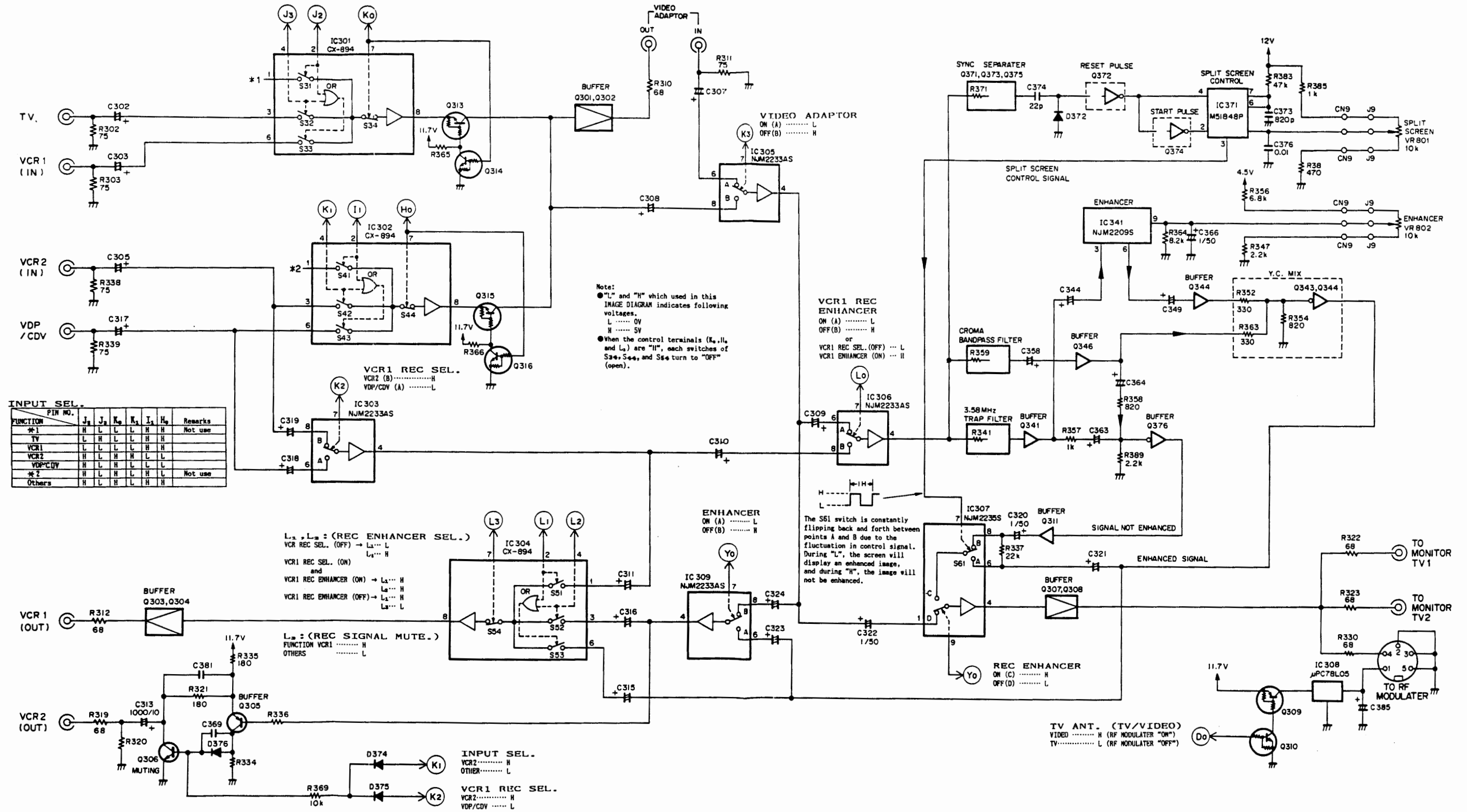
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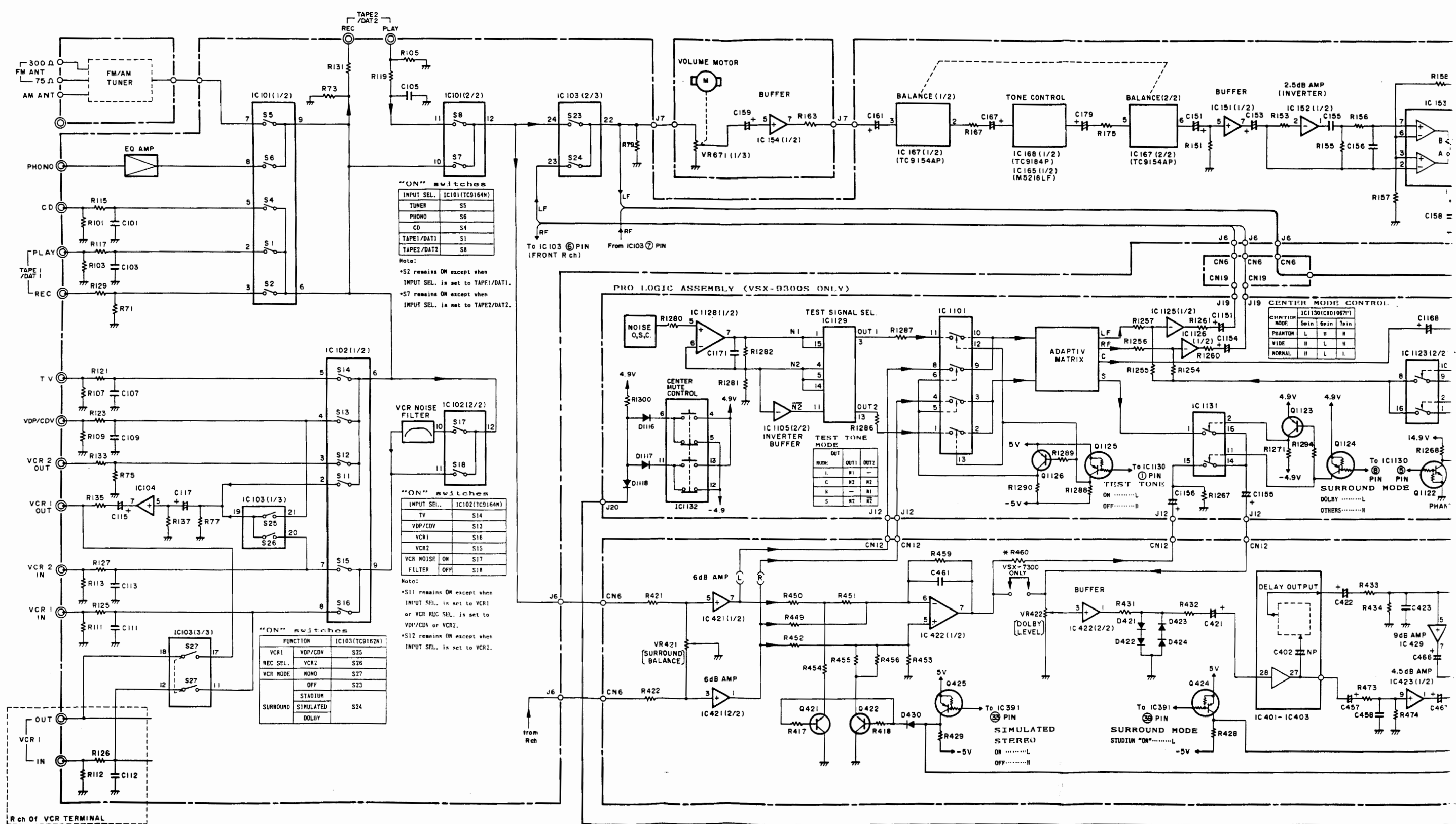
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4. IMAGE DIAGRAM

4.1 VIDEO SECTION





"ON" switches

INPUT SEL.	IC101(TC9164N)
TUNER	S5
PHONO	S6
CD	S4
TAPE1/DAT1	S1
TAPE2/DAT2	S8

Note:
 *S2 remains ON except when INPUT SEL. is set to TAPE1/DAT1.
 *S7 remains ON except when INPUT SEL. is set to TAPE2/DAT2.

"ON" switches

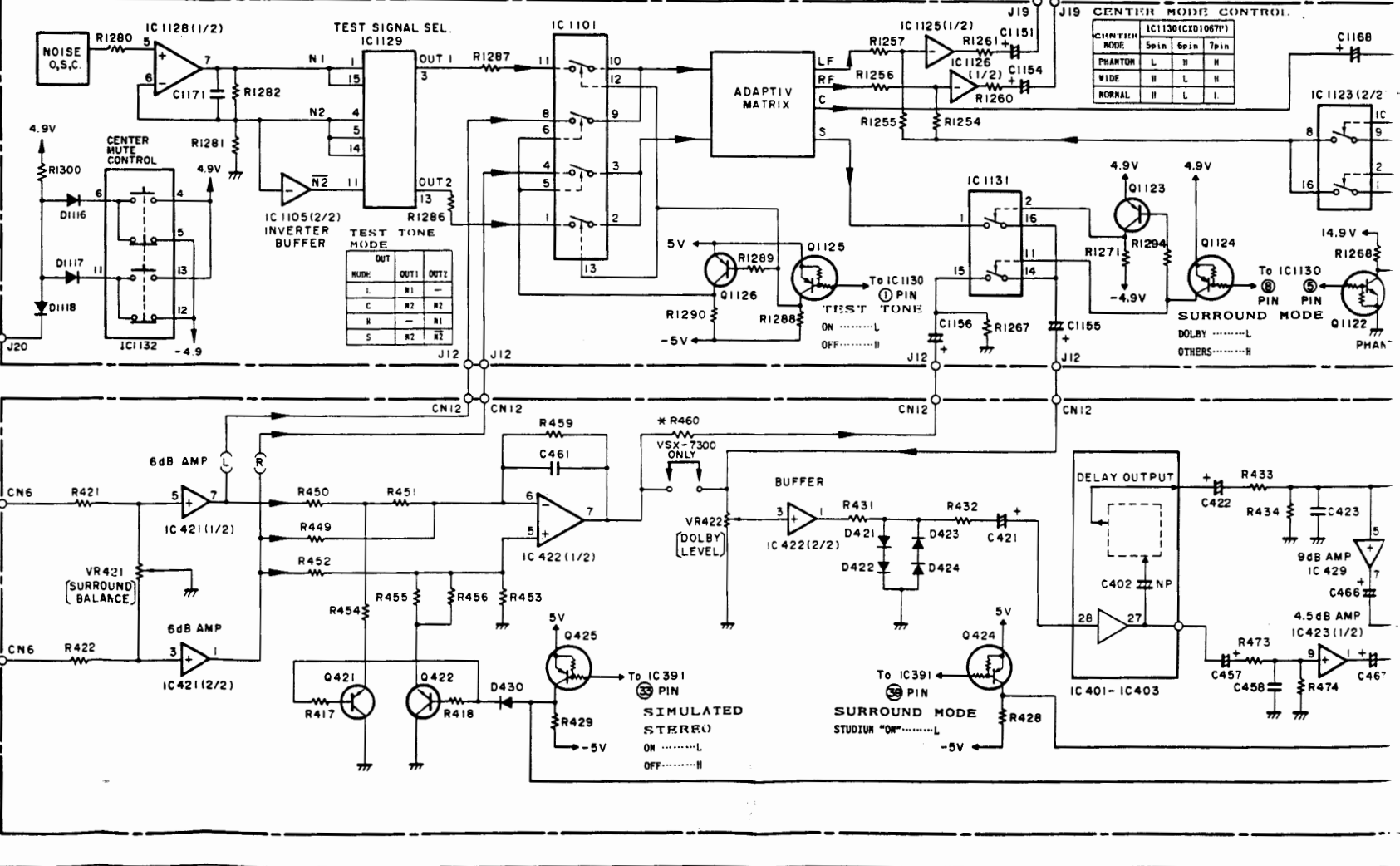
INPUT SEL.	IC102(TC9164N)
TV	S14
VDP/CDV	S13
VCR1	S12
VCR2	S11
VCR NOISE ON	S17
FILTER OFF	S18

Note:
 *S11 remains ON except when INPUT SEL. is set to VCR1 or VCR REC SEL. is set to VDP/CDV or VCR2.
 *S12 remains ON except when INPUT SEL. is set to VCR2.

"ON" switches

FUNCTION	IC103(TC9162N)
VCR1	S25
REC SEL.	S26
VCR MODE	S27
OFF	S23
STADIUM	S24
SIMULATED	
DOLBY	

PRO LOGIC ASSEMBLY (VSX-9300S ONLY)



TEST SIGNAL SEL. IC1129

OUT	OUT1	OUT2
N1	R1	-
N2	R2	R2
N	-	R1
S	R2	R2

IC1130(CD1067N) CENTER MODE CONTROL

MODE	Sw	Sw	Sw
PHANTOM	L	H	H
WIDE	H	L	H
NORMAL	H	L	L

TEST TONE

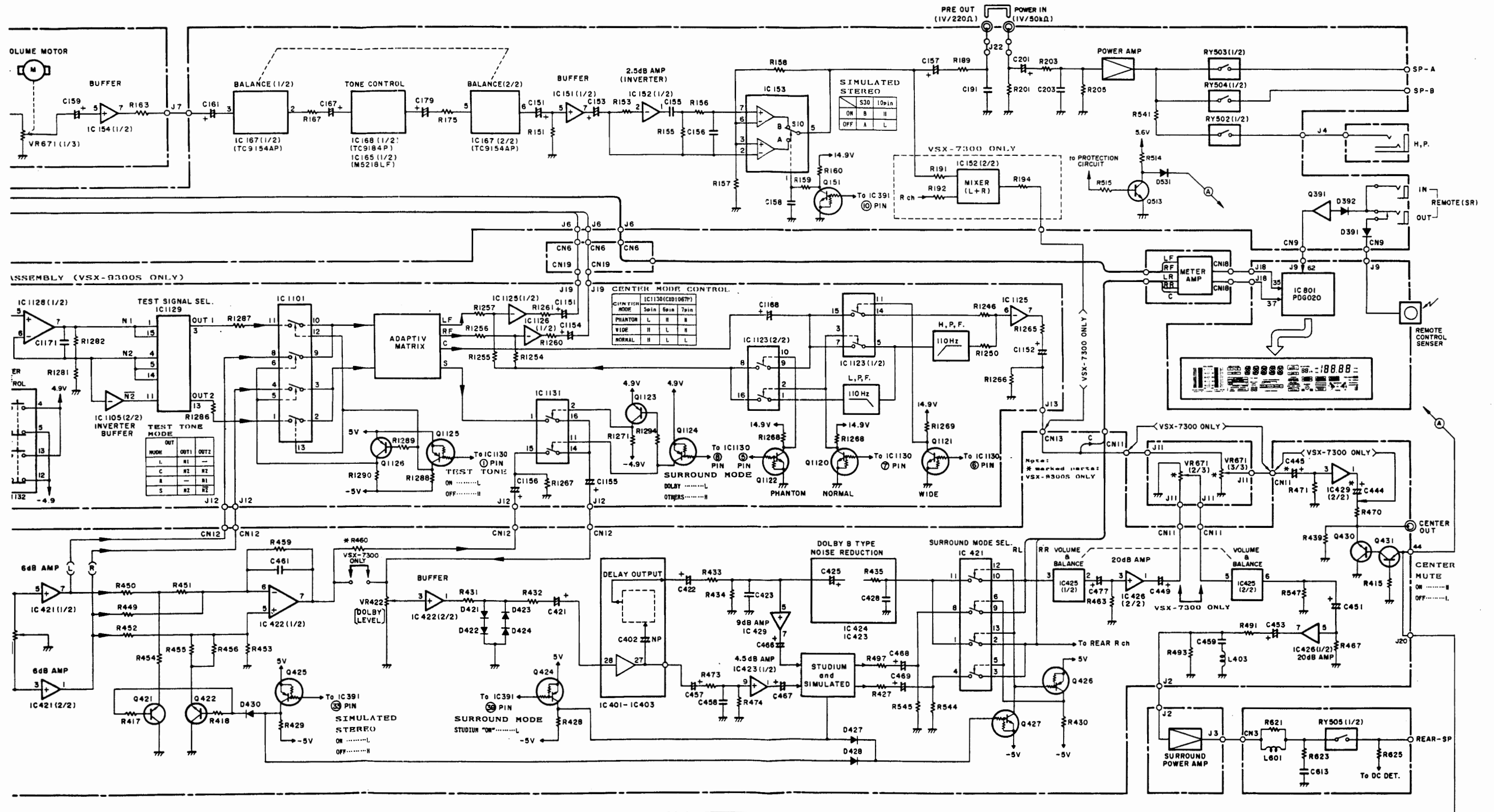
MODE	OUT1	OUT2
L	R1	-
C	R2	R2
R	-	R1
S	R2	R2

SURROUND MODE

DOLBY	ON	L
STADIUM	ON	L
OTHERS	ON	H

R ch Of VCR TERMINAL

VSX-9300S



5. SCHEMATIC DIAGRAM AND P.C.BOARD PATTERNS
5.1 OVER ALL SCHEMATIC DIAGRAM

NOTE OF SCHEMATIC

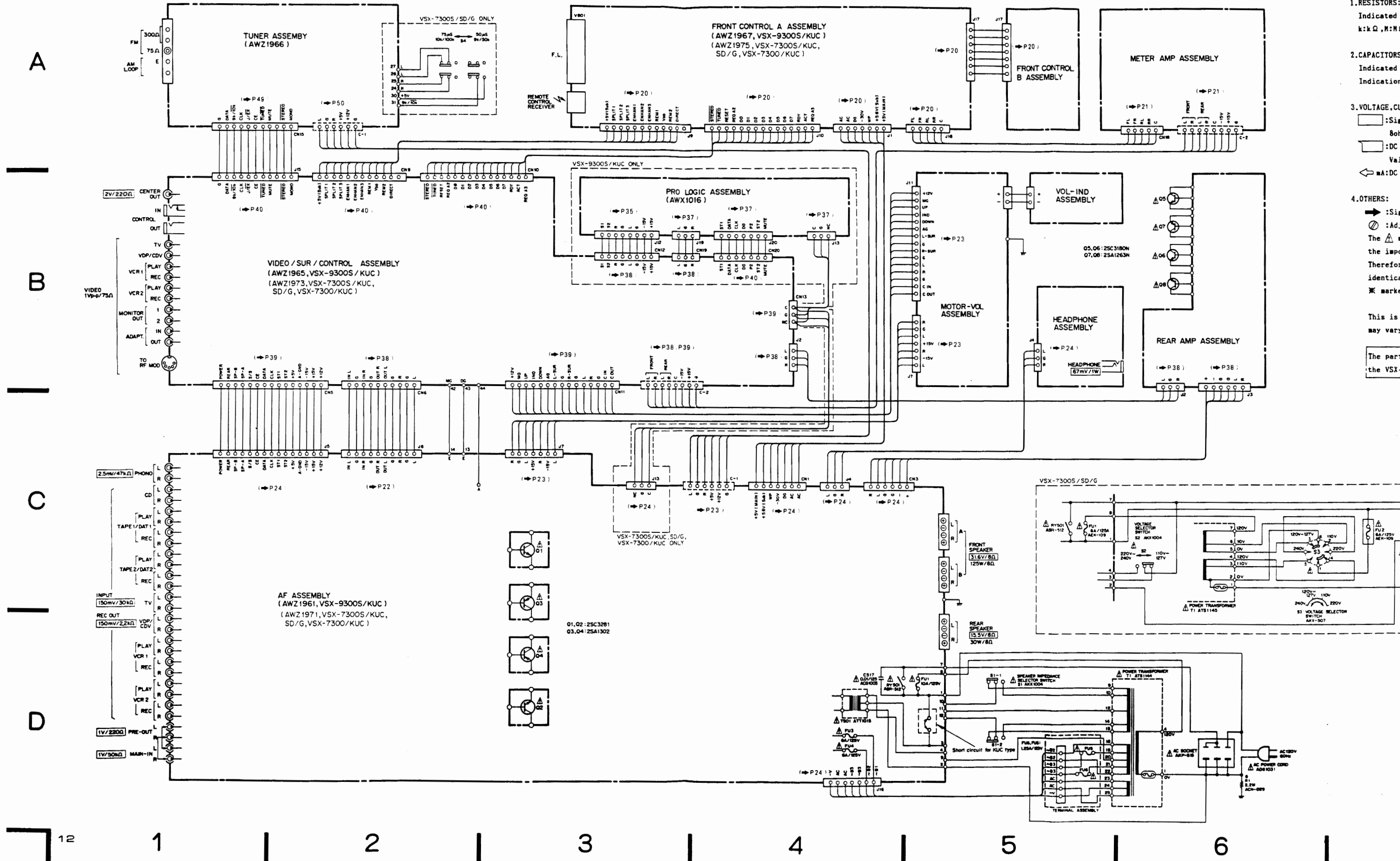
1. RESISTORS:
 Indicated by letters and numbers
 k:kΩ, M:MΩ

2. CAPACITORS:
 Indicated by letters and numbers
 Indication

3. VOLTAGE, CURRENT:
 :Sign
 8ohm
 :DC voltage
 :DC current

4. OTHERS:
 :Sign
 :Adjustable
 The triangle symbol indicates the important parts. Therefore, identical parts are not marked with an asterisk.

This is the main schematic diagram. The parts list is on the next page.



4

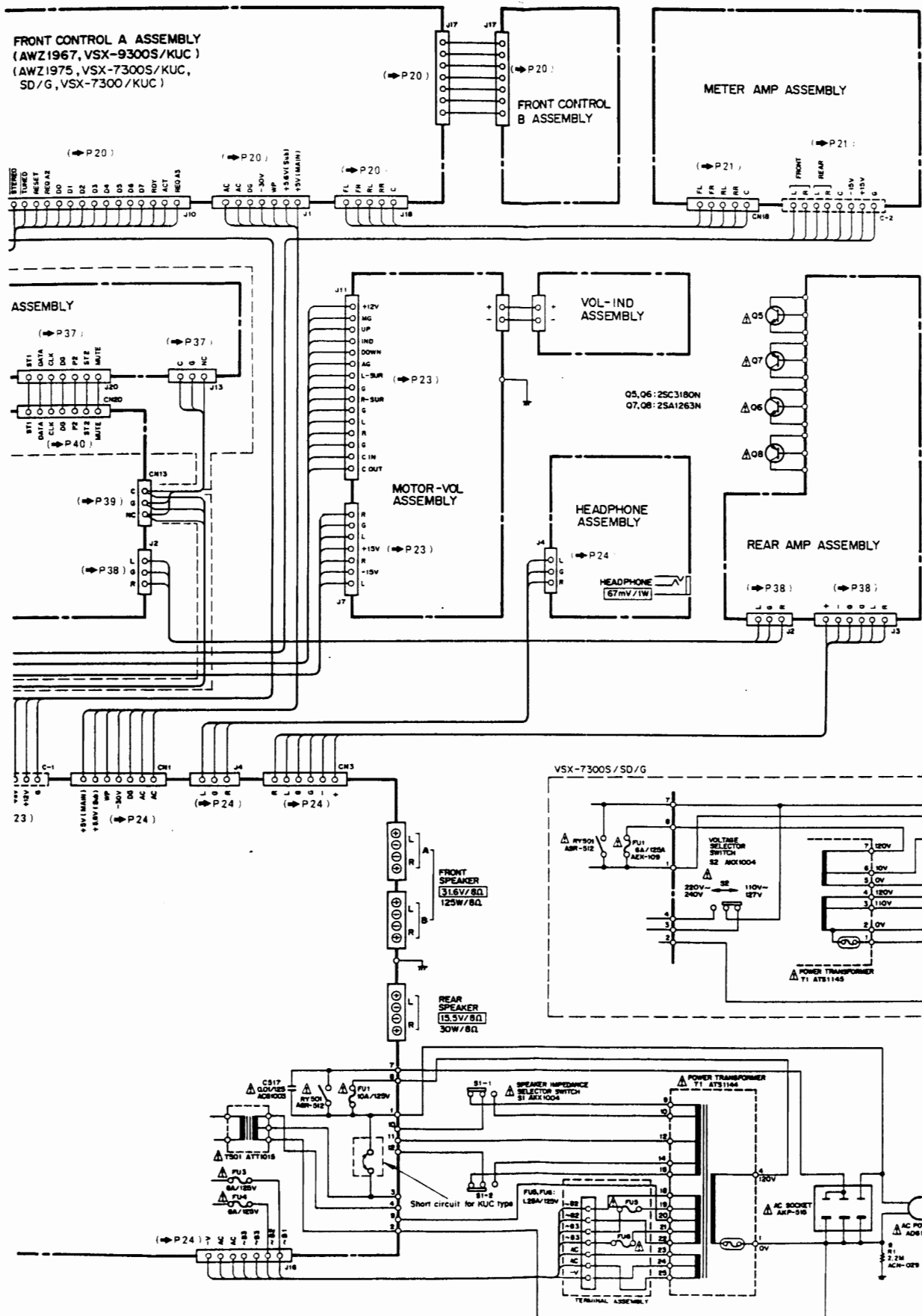
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NOTE OF SCHEMATIC DIAGRAM

1. RESISTORS:

Indicated in Ω, 1/4W, 1/8W, ±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. VOLTAGE, CURRENT:

- ◻ :Signal voltage at 125W+125W(Front), 30W+30W(Rear), 8ohm output(1kHz)
- ◻ :DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
- ↩ :DC current at no input signal

4. OTHERS:

- :Signal route.
- ⊕ :Adjusting point.
- 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.
- * 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 parts specified as "VSX-7300 TYPE" are required for the VSX-7300S/KUC, SD/G and VSX-7300/KUC.

5. SWITCH

- S1: SPEAKER IMPEDANCE SELECTOR**
8Ω or more ⇒ 4Ω to less than 8Ω
- S2: Voltage Selector (SD/G model only)**
220-240V ⇒ 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 μS ⇒ 50 μS
10kHz/100kHz ⇒ 9kHz/50kHz

- | | |
|---|--|
| S801:TUNING UP | S837:TUNER |
| S802:TUNING DOWN | S838:PHONO |
| S803:ST 1 | S839:TREBLE UP |
| S804:ST 2 | S840:TREBLE DOWN |
| S805:ST 3 | S841:ACOUSTIC MEMORY |
| S806:ST 4 | S842:ACOUSTIC SELECT |
| S807:ST 5 | S843:DELAY TIME |
| S808:FM | S844:DOLBY SURROUND |
| S809:AM | S845:STADIUM |
| S810:ST 6 | S846:SIMULATED |
| S811:ST 7 | S847:BASS UP |
| S812:ST 8 | S848:BASS DOWN |
| S813:ST 9 | S849:VCR NOISE FILTER |
| S814:ST10 | S850:ENHANCER |
| S815:TUNING MODE | S851:SURROUND OFF |
| S816:DIRECT ACCESS TUNING | S852:TV ANT |
| S817:FM MODE | S853:POWER STANDBY |
| S818:MEMORY | |
| S819:MEMORY SCAN | S855:SURROUND TEST TONE (VSX-9300S ONLY) |
| S820:STATION NAME | S856:CENTER MODE (VSX-9300S ONLY) |
| | S857:SP-A |
| S822:HITS (Hyper Intelligent Tuning System) | S858:SP-B |
| S823:REAR UP | S859:VCR 1 REC SELECTOR |
| S824:REAR DOWN | S860:VIDEO ADAPTOR |
| S825:SIMULATED STEREO | S861:VCR 1 MODE |
| S826:VIDEO SIGNAL SELECTOR | S862:VCR 1 REC ENHANCER |
| S827:VCR 1 | S863:SP-REAR |
| S828:VCR 2 | |
| S829:VDP/CDV | |
| S830:TV | |
| S831:L | |
| S832:R | |
| S833:MUTE | |
| S834:TAPE2/DAT2 | |
| S835:TAPE1/DAT1 | |
| S836:CD | |

THE UNDERLINED INDICATES THE SWITCH POSITION

A

B

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D

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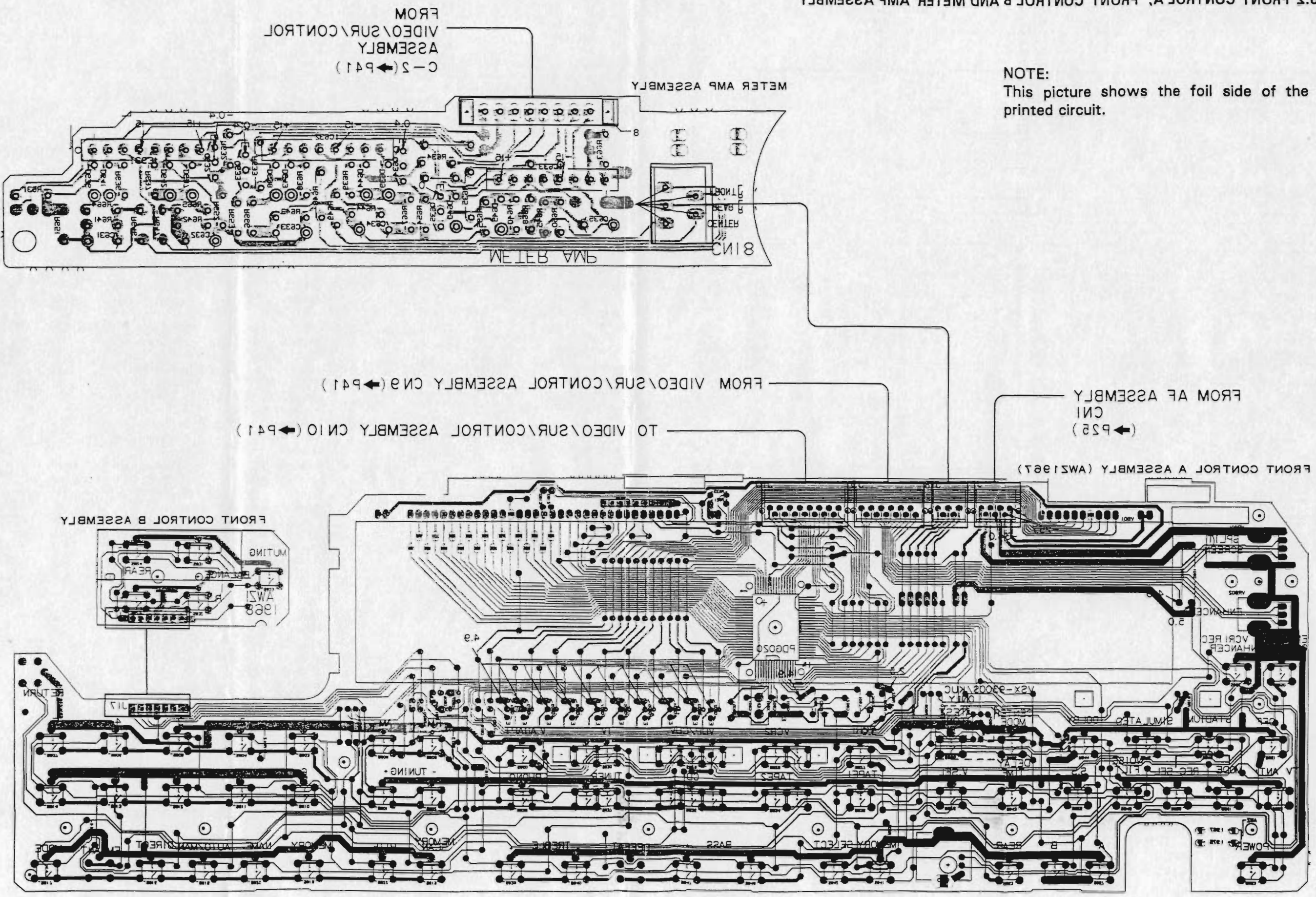
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2.5 FRONT CONTROL A, FRONT CONTROL B AND METER AMP ASSEMBLY

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



FROM VIDEO SUR CONTROL ASSEMBLY C-2 (P41)

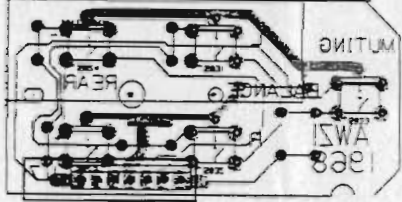
METER AMP ASSEMBLY

FROM VIDEO SUR CONTROL ASSEMBLY C9 (P41)
TO VIDEO SUR CONTROL ASSEMBLY C10 (P41)

FROM AF ASSEMBLY C11 (P28)

FRONT CONTROL A ASSEMBLY (AWZ1987)

FRONT CONTROL B ASSEMBLY



5.2 FRONT CONTROL A, FRONT CONTROL B AND METER AMP 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.

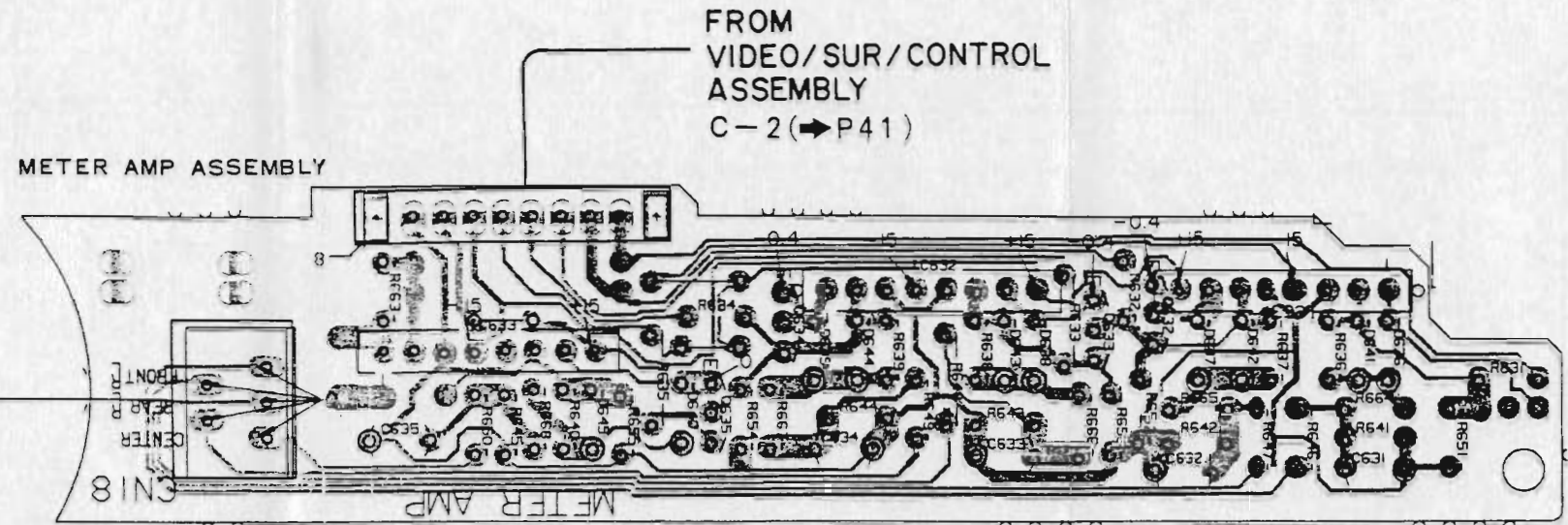
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504	Q	Transistor
Q215	Q	Radiator type transistor
Q203	D	Diode
R237	R	Resistor
C513	C	Capacitor (Polarity)
C518	C	Capacitor (Non-polarity)

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



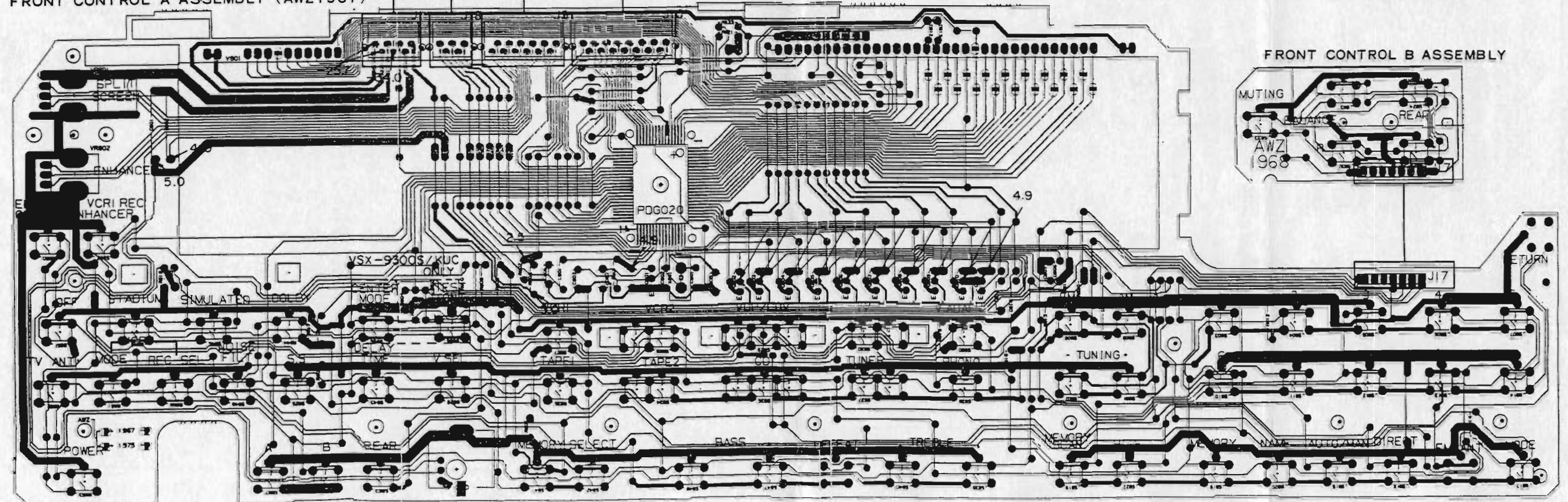
FROM VIDEO/SUR/CONTROL ASSEMBLY C-2 (→P41)

FROM AF ASSEMBLY CN1 (→P25)

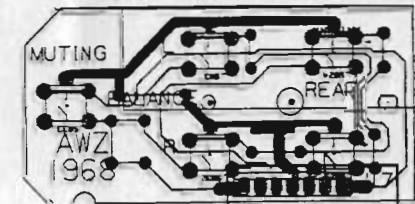
FROM VIDEO/SUR/CONTROL ASSEMBLY CN9 (→P41)

TO VIDEO/SUR/CONTROL ASSEMBLY CN10 (→P41)

FRONT CONTROL A ASSEMBLY (AWZ1967)



FRONT CONTROL B ASSEMBLY



FRONT CONTROL A, FRONT CONTROL B AND METER AMP ASSEMBLY

FRONT CONTROL A ASSEMBLY (AWZ1967, VSX-9300S/KUC) (AWZ1975, VSX-7300 TYPE)

from AF ASSEMBLY CN1 (P24) to VIDEO/SUR/CONTROL CNS (P40) to VIDEO/SUR/CONTROL CN10 (P40)

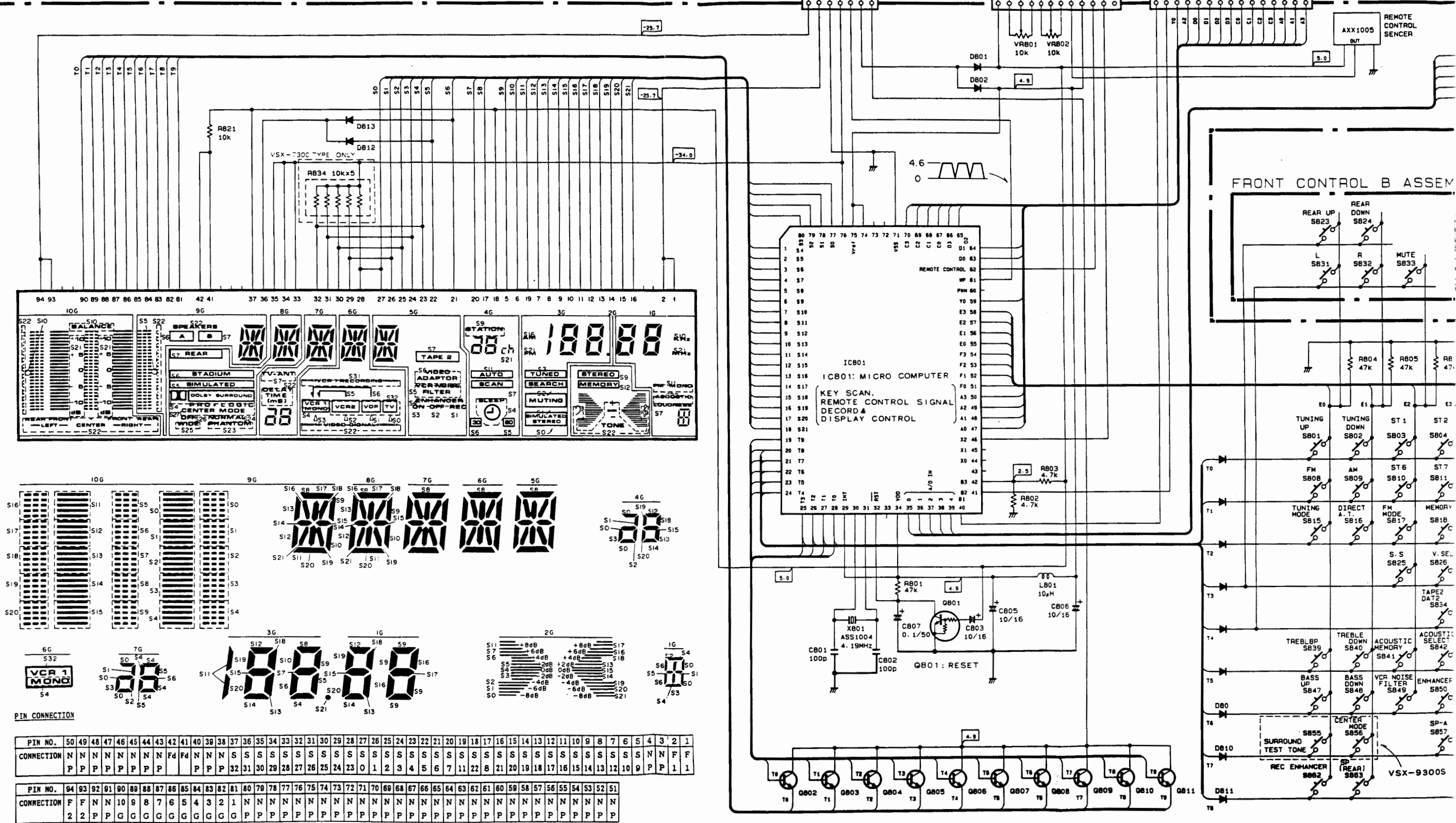
Note: The parts spec VSX-7300S/KUC

A

B

C

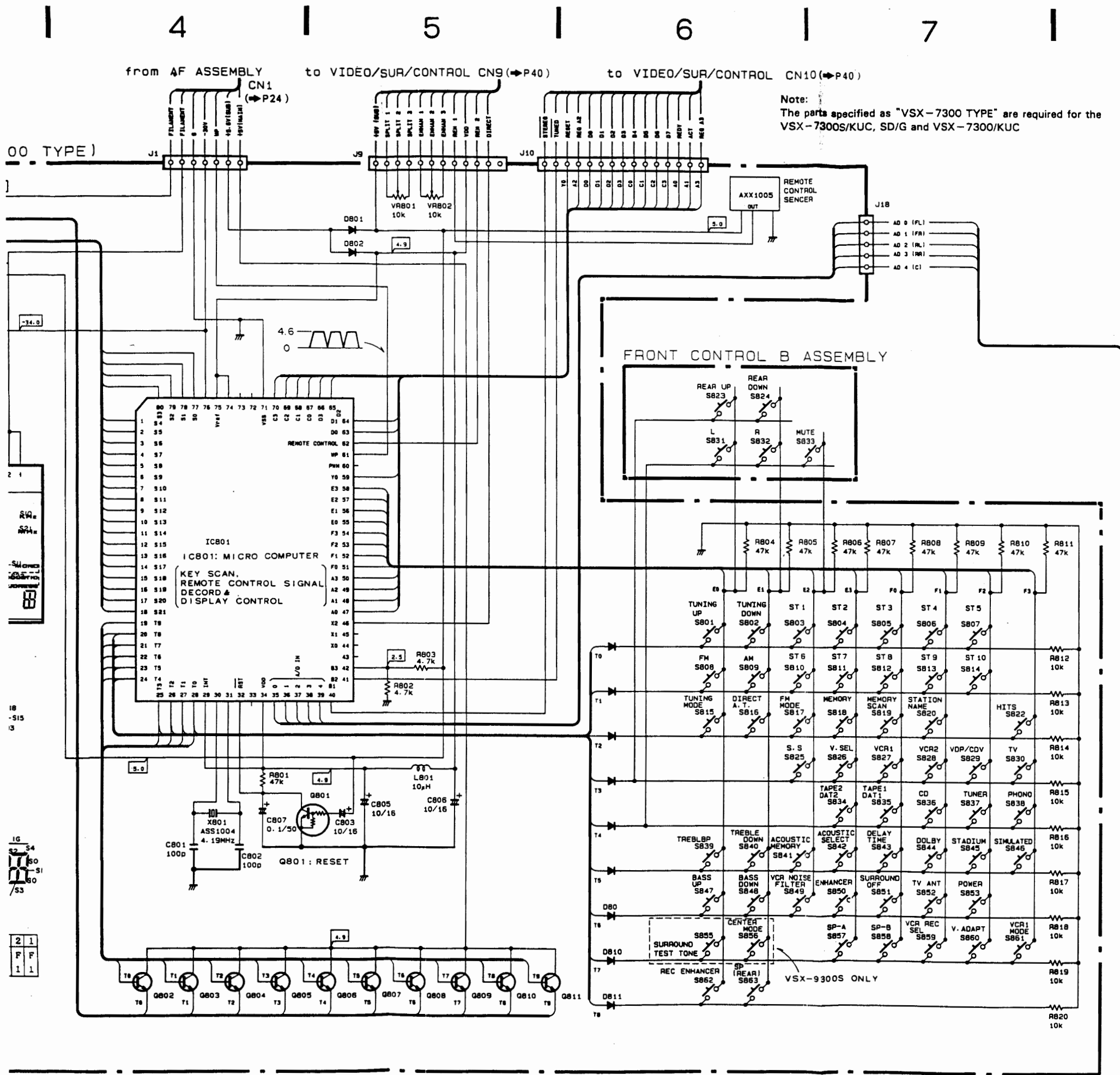
D



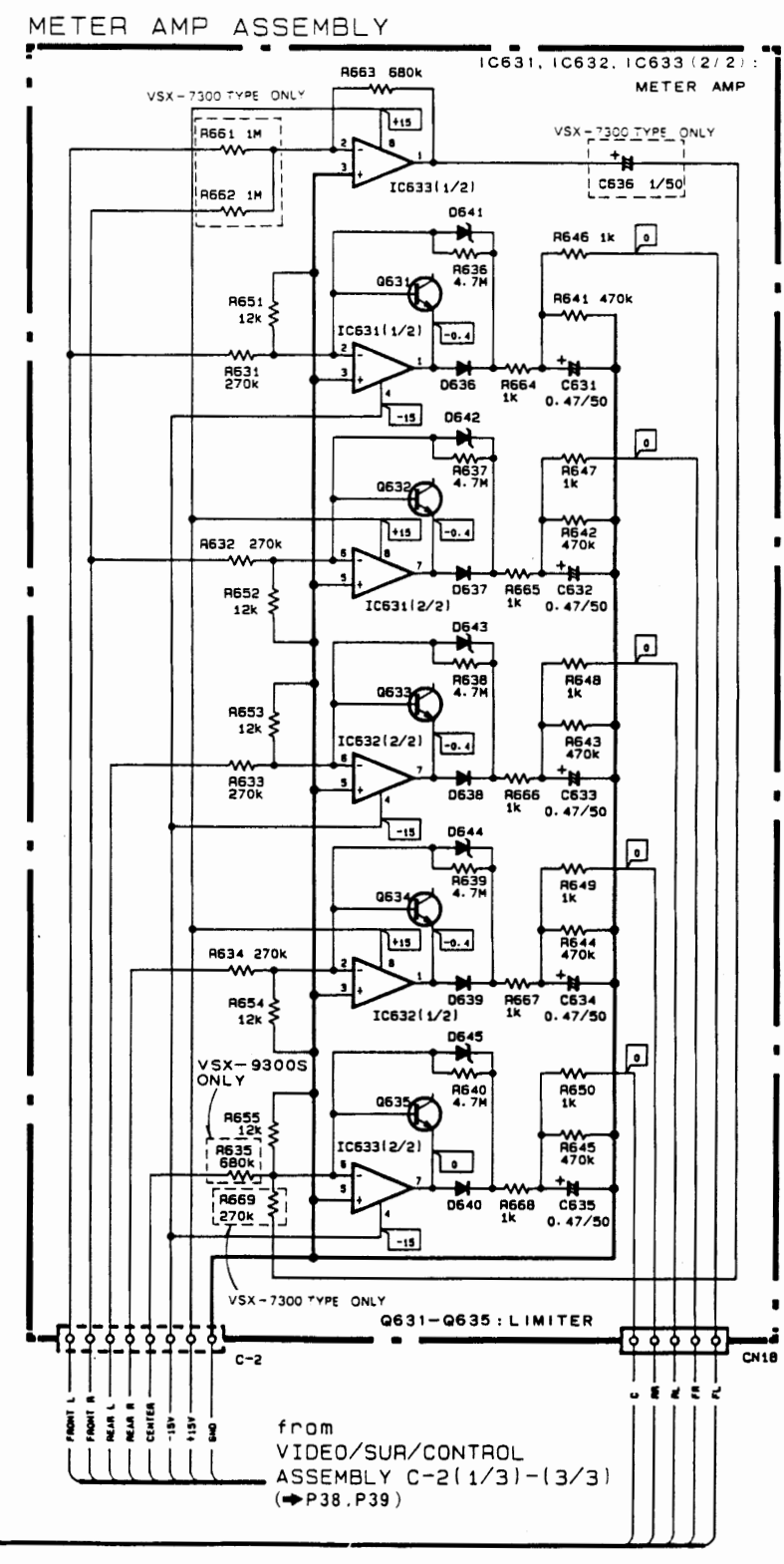
PIN CONNECTION

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1			
CONNECTION	N	N	N	N	N	N	N	N	N	Fd	Fd	N	N	N	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	N	F	F	F	F	1
PIN NO.	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51									
CONNECTION	F	F	N	N	10	9	8	7	6	5	4	3	2	1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		

NOTE: Fd=Filament duaper



IC801	PDG020-A	IC831-IC833	M5218LF
Q801	RN1203	Q831-Q835	2SC2458
Q802-Q811	2SC2458	D841-D845	RD5.6ESB3
D801-D813	1SS252	D836-D840	1SS252



A
B
C
D

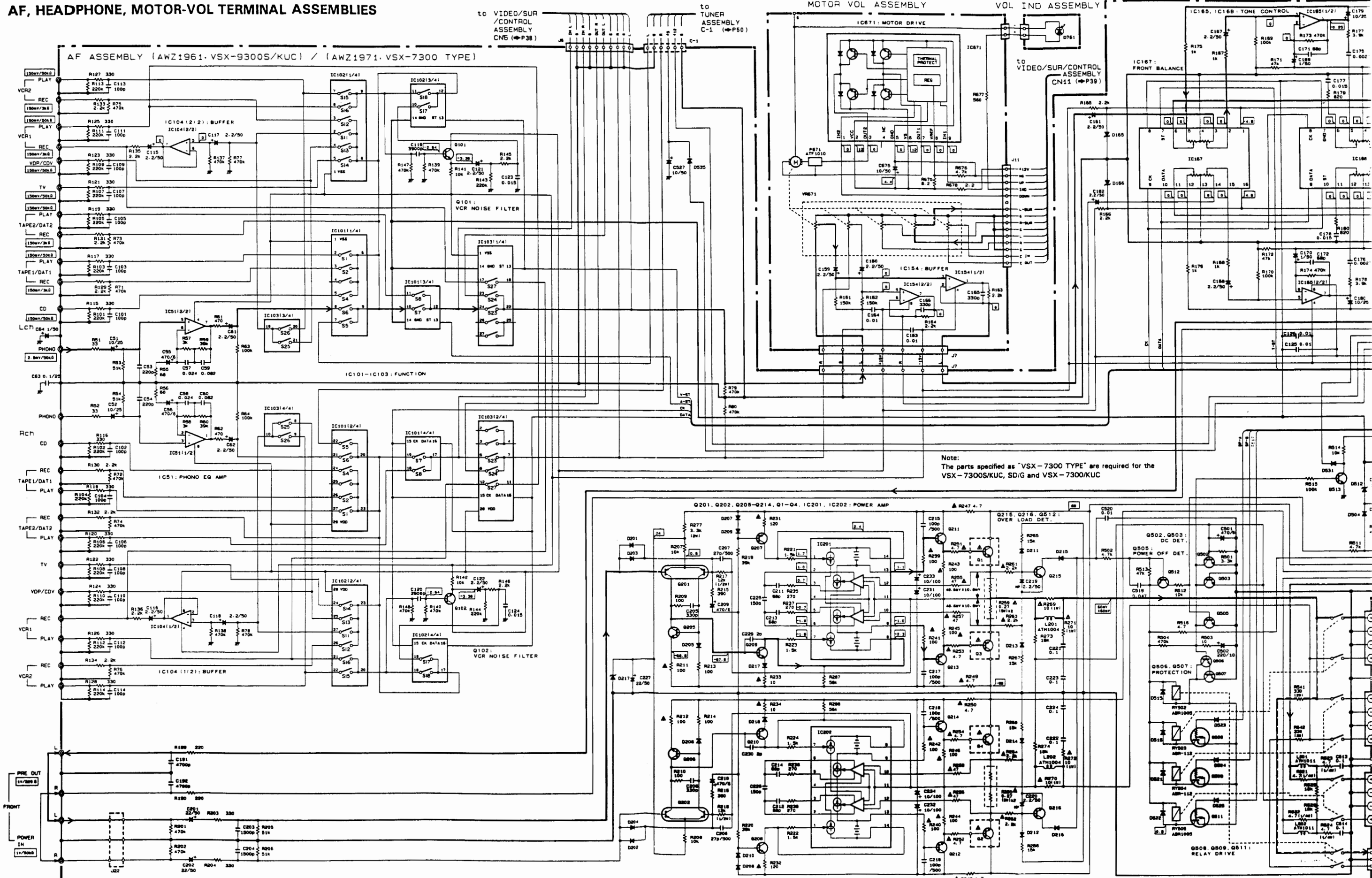
AF, HEADPHONE, MOTOR-VOL TERMINAL ASSEMBLIES

A

B

C

D



Note:
 The parts specified as "VSX-7300 TYPE" are required for the VSX-7300S/KUC, SD/G and VSX-7300/KUC

4

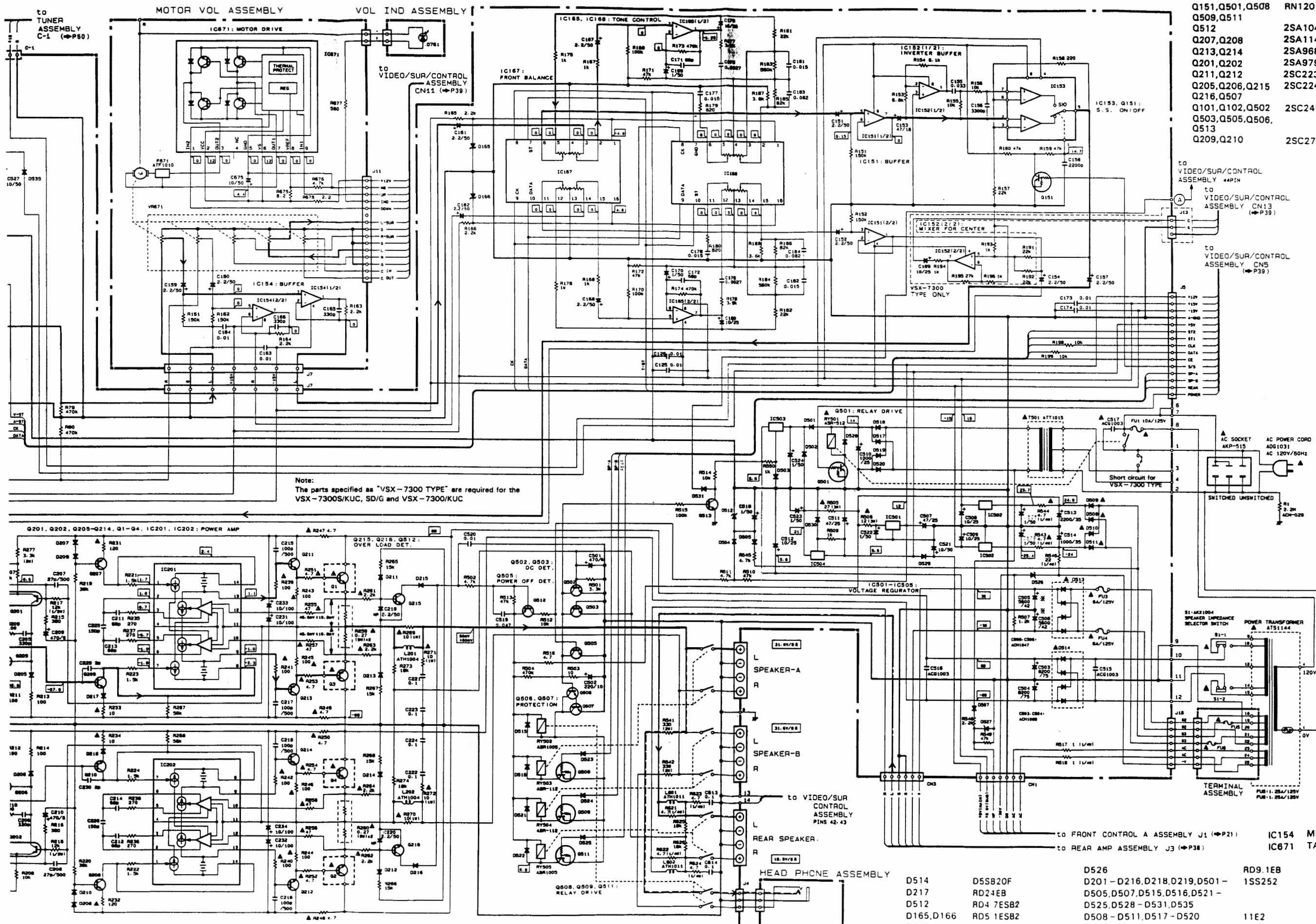
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- Q151, Q501, Q508 RN1201
- Q509, Q511 2SA1048
- Q512 2SA1145P
- Q207, Q208 2SA968
- Q213, Q214 2SA979
- Q201, Q202 2SC2238
- Q211, Q212 2SC2240
- Q205, Q206, Q215 2SC2458
- Q216, Q507 2SC2458
- Q101, Q102, Q502 2SC2705P
- Q503, Q505, Q506, Q513
- Q209, Q210

A

B

C

D

Notes:
The parts specified as "VSX-7300 TYPE" are required for the VSX-7300S/KUC, SD/G and VSX-7300/KUC

- IC154 M5220L
- IC671 TA7291S

- D514 D55B20F
- D217 RD24EB
- D512 RD47ESB2
- D165, D166 RD51ESB2
- D527 RD56ESB
- D526 D201-D216, D218, D219, D501-1SS252
- D505, D507, D515, D516, D521-11E2
- D525, D528-D531, D535 4D4B44
- D508-D511, D517-D520
- D513

4

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7

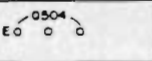
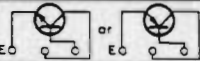
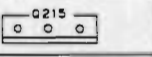
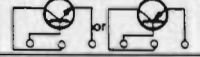
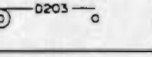
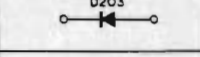
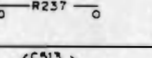
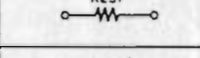
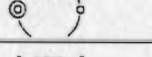
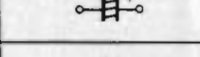
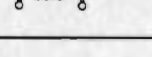
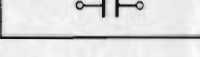
8

9

5.3 AF, HEADPHONE, MOTOR-VOL TERMINAL ASSEMBLIES

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.

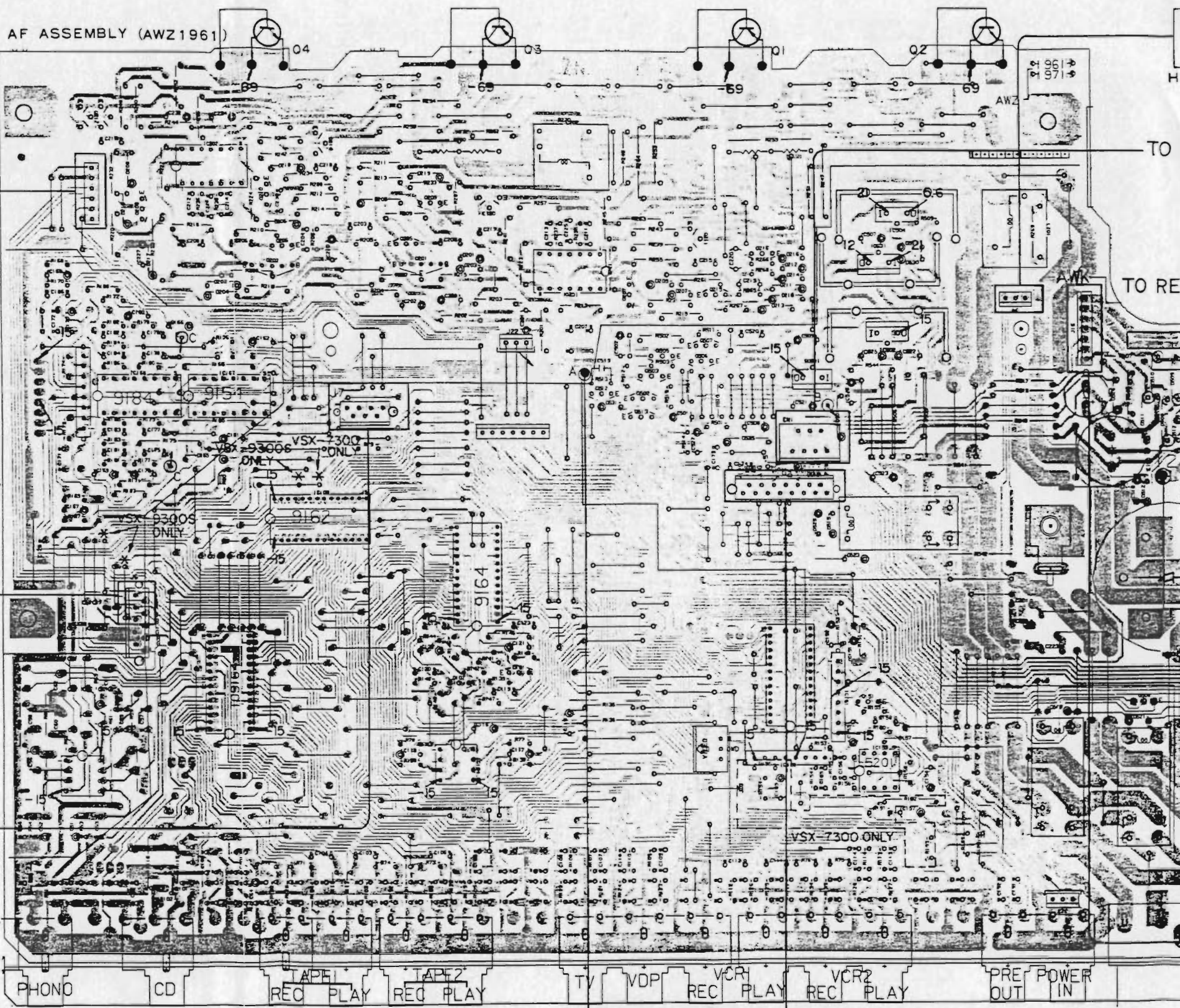
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

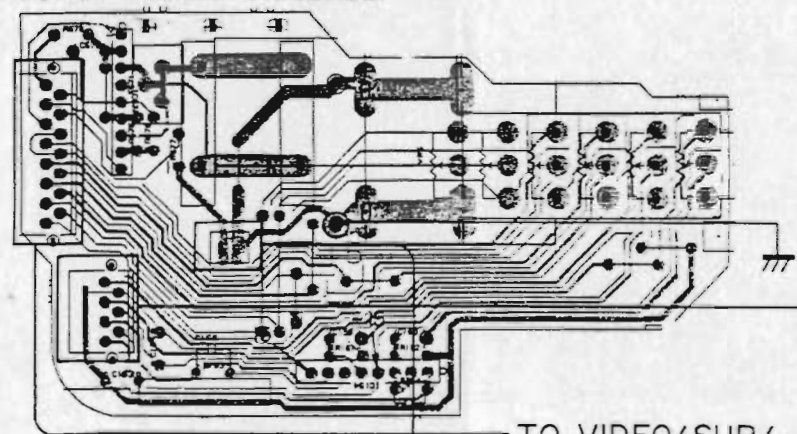
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

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.

AF ASSEMBLY (AWZ1961)



MOTOR VOLUME ASSEMBLY

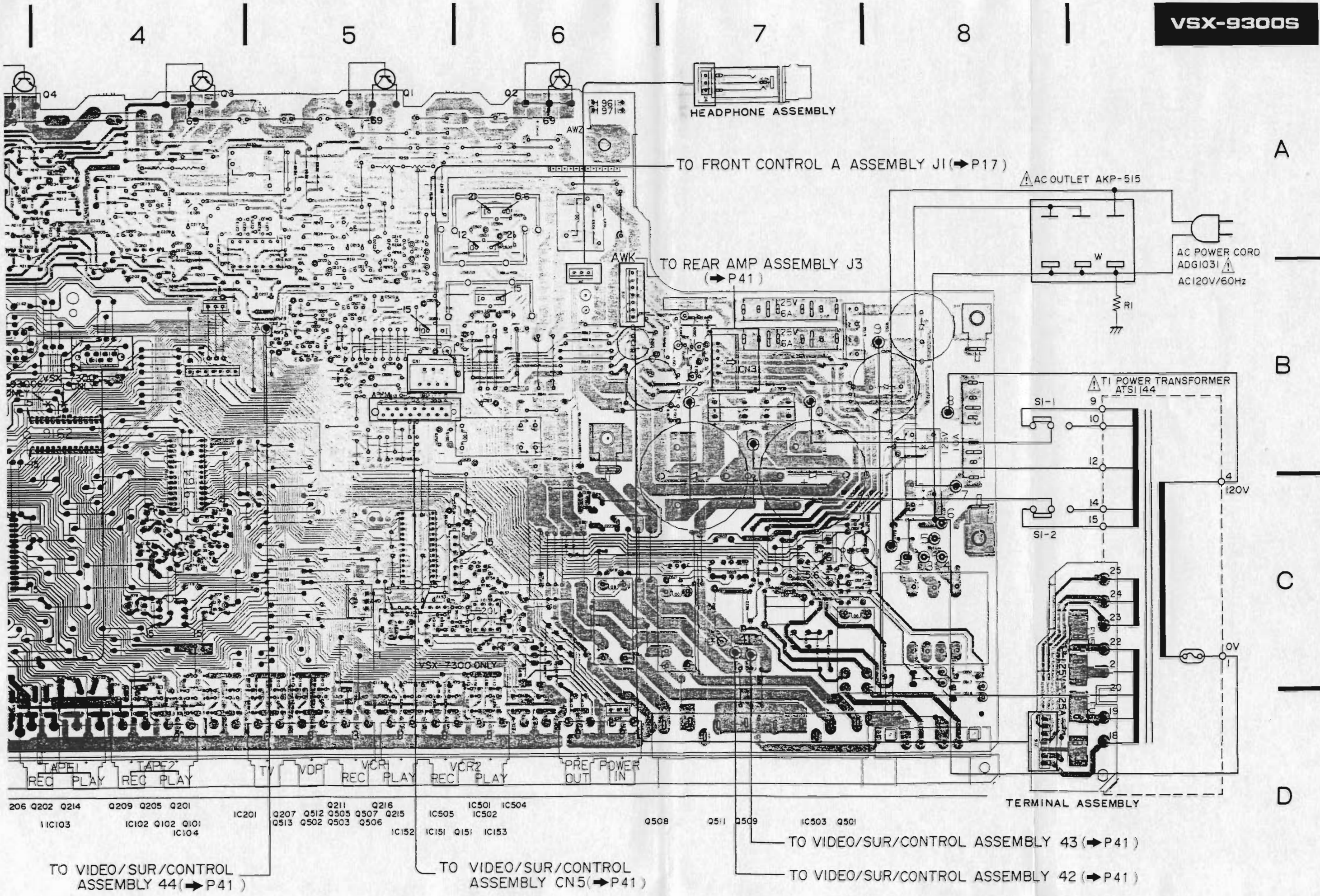


VOL IND ASSEMBLY

Q212 Q208 IC202 Q210 Q206 Q202 Q214 Q209 Q205 Q201 IC201 Q207 Q512 Q505 Q507 Q215 IC501 IC504 Q513 Q502 Q503 Q506 IC152 IC151 Q151 IC153 Q508

TO VIDEO/SUR/CONTROL ASSEMBLY 44 (P41)

TO VIDEO/SUR/CONTROL ASSEMBLY CN5 (P41)



206 Q202 Q214 Q209 Q205 Q201 IC201 Q207 Q211 Q216 Q212 Q505 Q507 Q215 IC501 IC504 Q513 Q502 Q503 Q506 IC152 IC151 Q151 IC153 Q508 Q511 Q509 IC503 Q501

11C103 IC102 Q102 Q101 IC104

TO VIDEO/SUR/CONTROL ASSEMBLY 44 (P41)

TO VIDEO/SUR/CONTROL ASSEMBLY CN5 (P41)

TO VIDEO/SUR/CONTROL ASSEMBLY 43 (P41)

TO VIDEO/SUR/CONTROL ASSEMBLY 42 (P41)

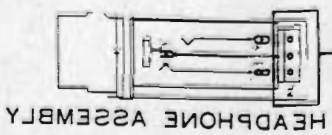
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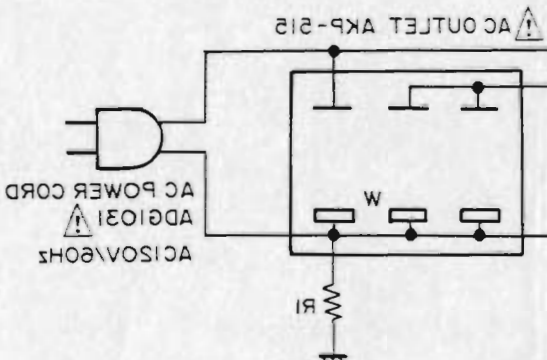
4



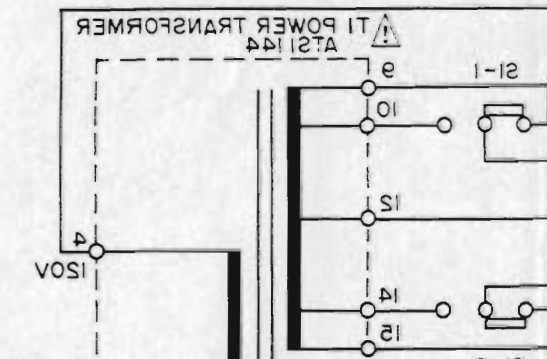
TO FRONT CONTROL A ASSEMBLY J1 (P17) ←

TO REAR AMP ASSEMBLY J3 (P41) ←

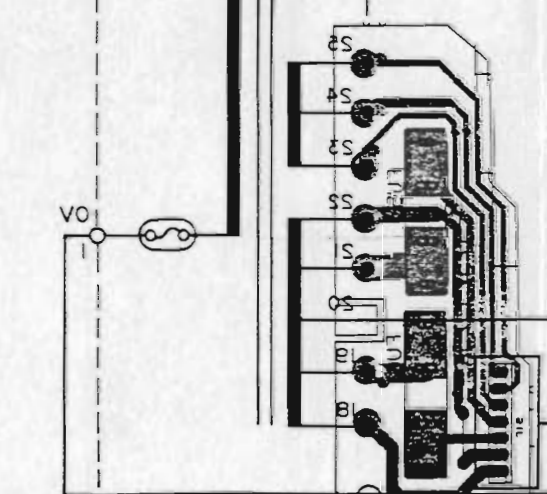
A



B



C



D

TO VIDEO SUR CONTROL ASSEMBLY 45 (P41) ←

TO VIDEO SUR CONTROL ASSEMBLY 43 (P41) ←

TO VIDEO SUR CONTROL ASSEMBLY C2 (P41) ←

TO VIDEO SUR CONTROL ASSEMBLY 44 (P41) ←

- IC101 IC102 IC103 IC104 IC105 IC106 IC107 IC108 IC109 IC110 IC111 IC112 IC113 IC114 IC115 IC116 IC117 IC118 IC119 IC120 IC121 IC122 IC123 IC124 IC125 IC126 IC127 IC128 IC129 IC130 IC131 IC132 IC133 IC134 IC135 IC136 IC137 IC138 IC139 IC140 IC141 IC142 IC143 IC144 IC145 IC146 IC147 IC148 IC149 IC150 IC151 IC152 IC153 IC154 IC155 IC156 IC157 IC158 IC159 IC160 IC161 IC162 IC163 IC164 IC165 IC166 IC167 IC168 IC169 IC170 IC171 IC172 IC173 IC174 IC175 IC176 IC177 IC178 IC179 IC180 IC181 IC182 IC183 IC184 IC185 IC186 IC187 IC188 IC189 IC190 IC191 IC192 IC193 IC194 IC195 IC196 IC197 IC198 IC199 IC200 IC201 IC202 IC203 IC204 IC205 IC206 IC207 IC208 IC209 IC210 IC211 IC212 IC213 IC214 IC215 IC216 IC217 IC218 IC219 IC220 IC221 IC222 IC223 IC224 IC225 IC226 IC227 IC228 IC229 IC230 IC231 IC232 IC233 IC234 IC235 IC236 IC237 IC238 IC239 IC240 IC241 IC242 IC243 IC244 IC245 IC246 IC247 IC248 IC249 IC250 IC251 IC252 IC253 IC254 IC255 IC256 IC257 IC258 IC259 IC260 IC261 IC262 IC263 IC264 IC265 IC266 IC267 IC268 IC269 IC270 IC271 IC272 IC273 IC274 IC275 IC276 IC277 IC278 IC279 IC280 IC281 IC282 IC283 IC284 IC285 IC286 IC287 IC288 IC289 IC290 IC291 IC292 IC293 IC294 IC295 IC296 IC297 IC298 IC299 IC300 IC301 IC302 IC303 IC304 IC305 IC306 IC307 IC308 IC309 IC310 IC311 IC312 IC313 IC314 IC315 IC316 IC317 IC318 IC319 IC320 IC321 IC322 IC323 IC324 IC325 IC326 IC327 IC328 IC329 IC330 IC331 IC332 IC333 IC334 IC335 IC336 IC337 IC338 IC339 IC340 IC341 IC342 IC343 IC344 IC345 IC346 IC347 IC348 IC349 IC350 IC351 IC352 IC353 IC354 IC355 IC356 IC357 IC358 IC359 IC360 IC361 IC362 IC363 IC364 IC365 IC366 IC367 IC368 IC369 IC370 IC371 IC372 IC373 IC374 IC375 IC376 IC377 IC378 IC379 IC380 IC381 IC382 IC383 IC384 IC385 IC386 IC387 IC388 IC389 IC390 IC391 IC392 IC393 IC394 IC395 IC396 IC397 IC398 IC399 IC400 IC401 IC402 IC403 IC404 IC405 IC406 IC407 IC408 IC409 IC410 IC411 IC412 IC413 IC414 IC415 IC416 IC417 IC418 IC419 IC420 IC421 IC422 IC423 IC424 IC425 IC426 IC427 IC428 IC429 IC430 IC431 IC432 IC433 IC434 IC435 IC436 IC437 IC438 IC439 IC440 IC441 IC442 IC443 IC444 IC445 IC446 IC447 IC448 IC449 IC450 IC451 IC452 IC453 IC454 IC455 IC456 IC457 IC458 IC459 IC460 IC461 IC462 IC463 IC464 IC465 IC466 IC467 IC468 IC469 IC470 IC471 IC472 IC473 IC474 IC475 IC476 IC477 IC478 IC479 IC480 IC481 IC482 IC483 IC484 IC485 IC486 IC487 IC488 IC489 IC490 IC491 IC492 IC493 IC494 IC495 IC496 IC497 IC498 IC499 IC500

8

7

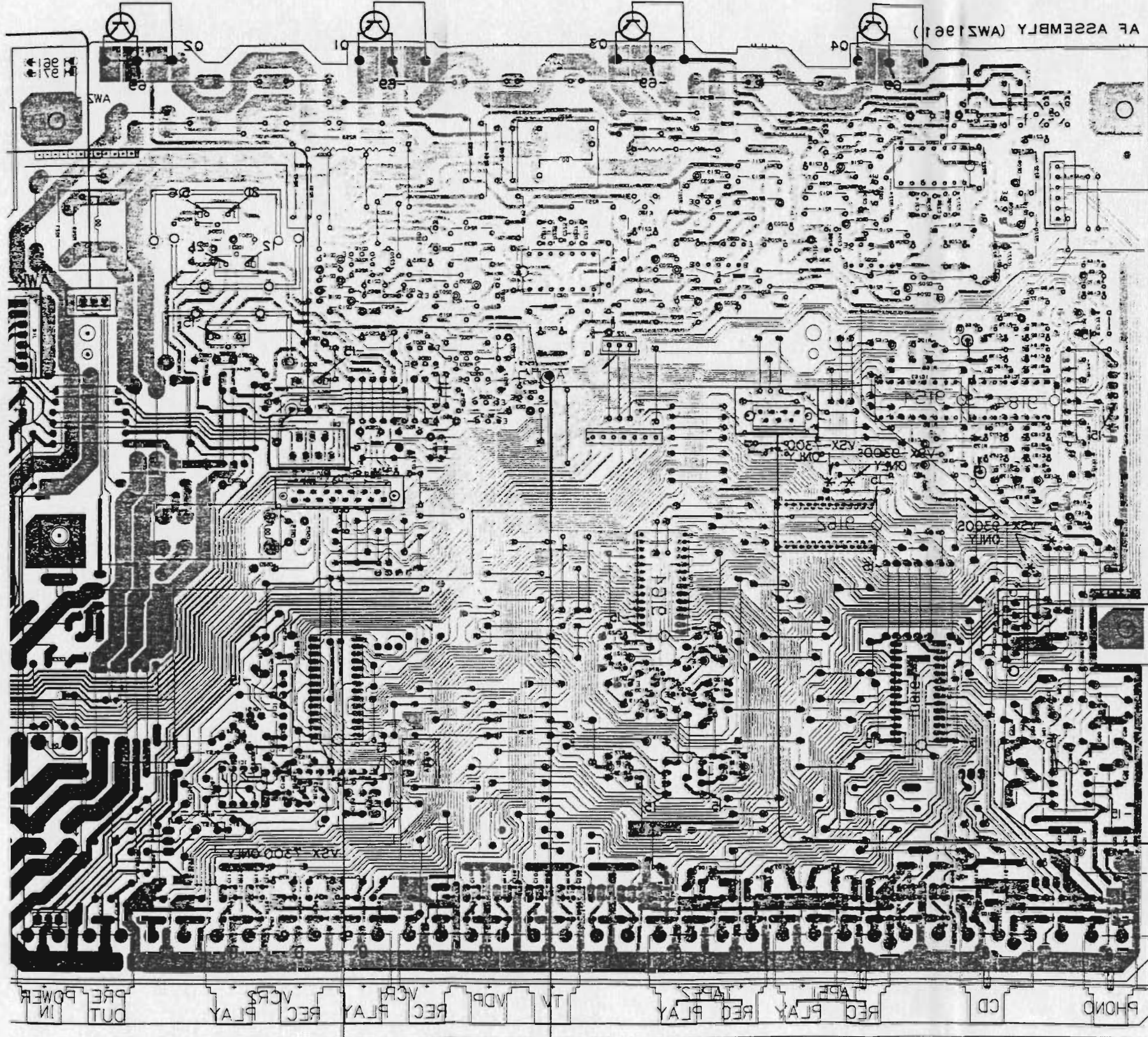
6

5

4

82

9



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

A

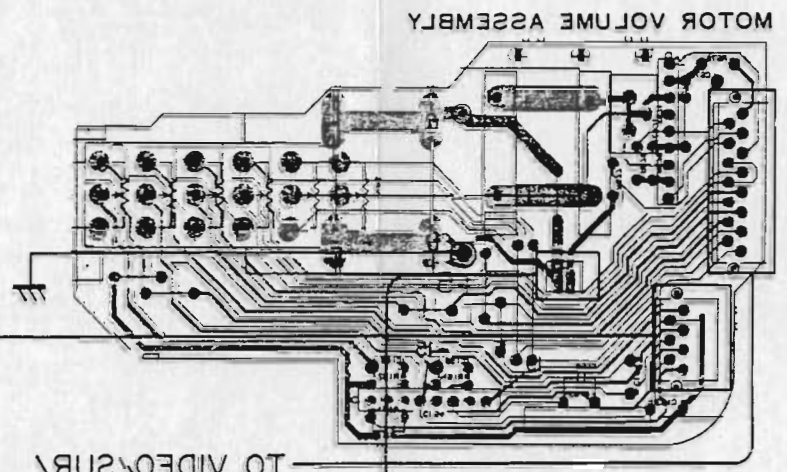
B

C

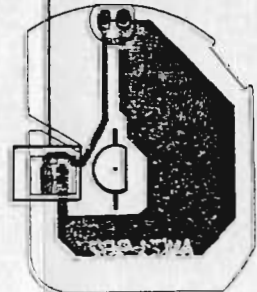
D

TO TUNER ASSEMBLY C-1 (P51)

TO VIDEO/SUR CONTROL ASSEMBLY CN(6) (P41)



MOTOR VOLUME ASSEMBLY



VOL IND ASSEMBLY

TO VIDEO/SUR CONTROL ASSEMBLY CN(2) (P41)
TO VIDEO/SUR CONTROL ASSEMBLY 44 (P41)

IC104 IC105 0105 0101 IC103
IC101 IC102
IC107 IC108 0510 0508 0514 0515 0508 0510 0508 0514
IC109 IC110 IC111 0203 0205 0206 0208 0209 0210 0211 0212
IC112 IC113 0215 0216 0217 0218 0219 0220 0221 0222 0223 0224 0225 0226 0227 0228 0229 0230 0231 0232 0233 0234 0235 0236 0237 0238 0239 0240 0241 0242 0243 0244 0245 0246 0247 0248 0249 0250 0251 0252 0253 0254 0255 0256 0257 0258 0259 0260 0261 0262 0263 0264 0265 0266 0267 0268 0269 0270 0271 0272 0273 0274 0275 0276 0277 0278 0279 0280 0281 0282 0283 0284 0285 0286 0287 0288 0289 0290 0291 0292 0293 0294 0295 0296 0297 0298 0299 0300 0301 0302 0303 0304 0305 0306 0307 0308 0309 0310 0311 0312 0313 0314 0315 0316 0317 0318 0319 0320 0321 0322 0323 0324 0325 0326 0327 0328 0329 0330 0331 0332 0333 0334 0335 0336 0337 0338 0339 0340 0341 0342 0343 0344 0345 0346 0347 0348 0349 0350 0351 0352 0353 0354 0355 0356 0357 0358 0359 0360 0361 0362 0363 0364 0365 0366 0367 0368 0369 0370 0371 0372 0373 0374 0375 0376 0377 0378 0379 0380 0381 0382 0383 0384 0385 0386 0387 0388 0389 0390 0391 0392 0393 0394 0395 0396 0397 0398 0399 0400 0401 0402 0403 0404 0405 0406 0407 0408 0409 0410 0411 0412 0413 0414 0415 0416 0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450 0451 0452 0453 0454 0455 0456 0457 0458 0459 0460 0461 0462 0463 0464 0465 0466 0467 0468 0469 0470 0471 0472 0473 0474 0475 0476 0477 0478 0479 0480 0481 0482 0483 0484 0485 0486 0487 0488 0489 0490 0491 0492 0493 0494 0495 0496 0497 0498 0499 0500 0501 0502 0503 0504 0505 0506 0507 0508 0509 0510 0511 0512 0513 0514 0515 0516 0517 0518 0519 0520 0521 0522 0523 0524 0525 0526 0527 0528 0529 0530 0531 0532 0533 0534 0535 0536 0537 0538 0539 0540 0541 0542 0543 0544 0545 0546 0547 0548 0549 0550 0551 0552 0553 0554 0555 0556 0557 0558 0559 0560 0561 0562 0563 0564 0565 0566 0567 0568 0569 0570 0571 0572 0573 0574 0575 0576 0577 0578 0579 0580 0581 0582 0583 0584 0585 0586 0587 0588 0589 0590 0591 0592 0593 0594 0595 0596 0597 0598 0599 0600 0601 0602 0603 0604 0605 0606 0607 0608 0609 0610 0611 0612 0613 0614 0615 0616 0617 0618 0619 0620 0621 0622 0623 0624 0625 0626 0627 0628 0629 0630 0631 0632 0633 0634 0635 0636 0637 0638 0639 0640 0641 0642 0643 0644 0645 0646 0647 0648 0649 0650 0651 0652 0653 0654 0655 0656 0657 0658 0659 0660 0661 0662 0663 0664 0665 0666 0667 0668 0669 0670 0671 0672 0673 0674 0675 0676 0677 0678 0679 0680 0681 0682 0683 0684 0685 0686 0687 0688 0689 0690 0691 0692 0693 0694 0695 0696 0697 0698 0699 0700 0701 0702 0703 0704 0705 0706 0707 0708 0709 0710 0711 0712 0713 0714 0715 0716 0717 0718 0719 0720 0721 0722 0723 0724 0725 0726 0727 0728 0729 0730 0731 0732 0733 0734 0735 0736 0737 0738 0739 0740 0741 0742 0743 0744 0745 0746 0747 0748 0749 0750 0751 0752 0753 0754 0755 0756 0757 0758 0759 0760 0761 0762 0763 0764 0765 0766 0767 0768 0769 0770 0771 0772 0773 0774 0775 0776 0777 0778 0779 0780 0781 0782 0783 0784 0785 0786 0787 0788 0789 0790 0791 0792 0793 0794 0795 0796 0797 0798 0799 0800 0801 0802 0803 0804 0805 0806 0807 0808 0809 0810 0811 0812 0813 0814 0815 0816 0817 0818 0819 0820 0821 0822 0823 0824 0825 0826 0827 0828 0829 0830 0831 0832 0833 0834 0835 0836 0837 0838 0839 0840 0841 0842 0843 0844 0845 0846 0847 0848 0849 0850 0851 0852 0853 0854 0855 0856 0857 0858 0859 0860 0861 0862 0863 0864 0865 0866 0867 0868 0869 0870 0871 0872 0873 0874 0875 0876 0877 0878 0879 0880 0881 0882 0883 0884 0885 0886 0887 0888 0889 0890 0891 0892 0893 0894 0895 0896 0897 0898 0899 0900 0901 0902 0903 0904 0905 0906 0907 0908 0909 0910 0911 0912 0913 0914 0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0927 0928 0929 0930 0931 0932 0933 0934 0935 0936 0937 0938 0939 0940 0941 0942 0943 0944 0945 0946 0947 0948 0949 0950 0951 0952 0953 0954 0955 0956 0957 0958 0959 0960 0961 0962 0963 0964 0965 0966 0967 0968 0969 0970 0971 0972 0973 0974 0975 0976 0977 0978 0979 0980 0981 0982 0983 0984 0985 0986 0987 0988 0989 0990 0991 0992 0993 0994 0995 0996 0997 0998 0999 1000

A

B

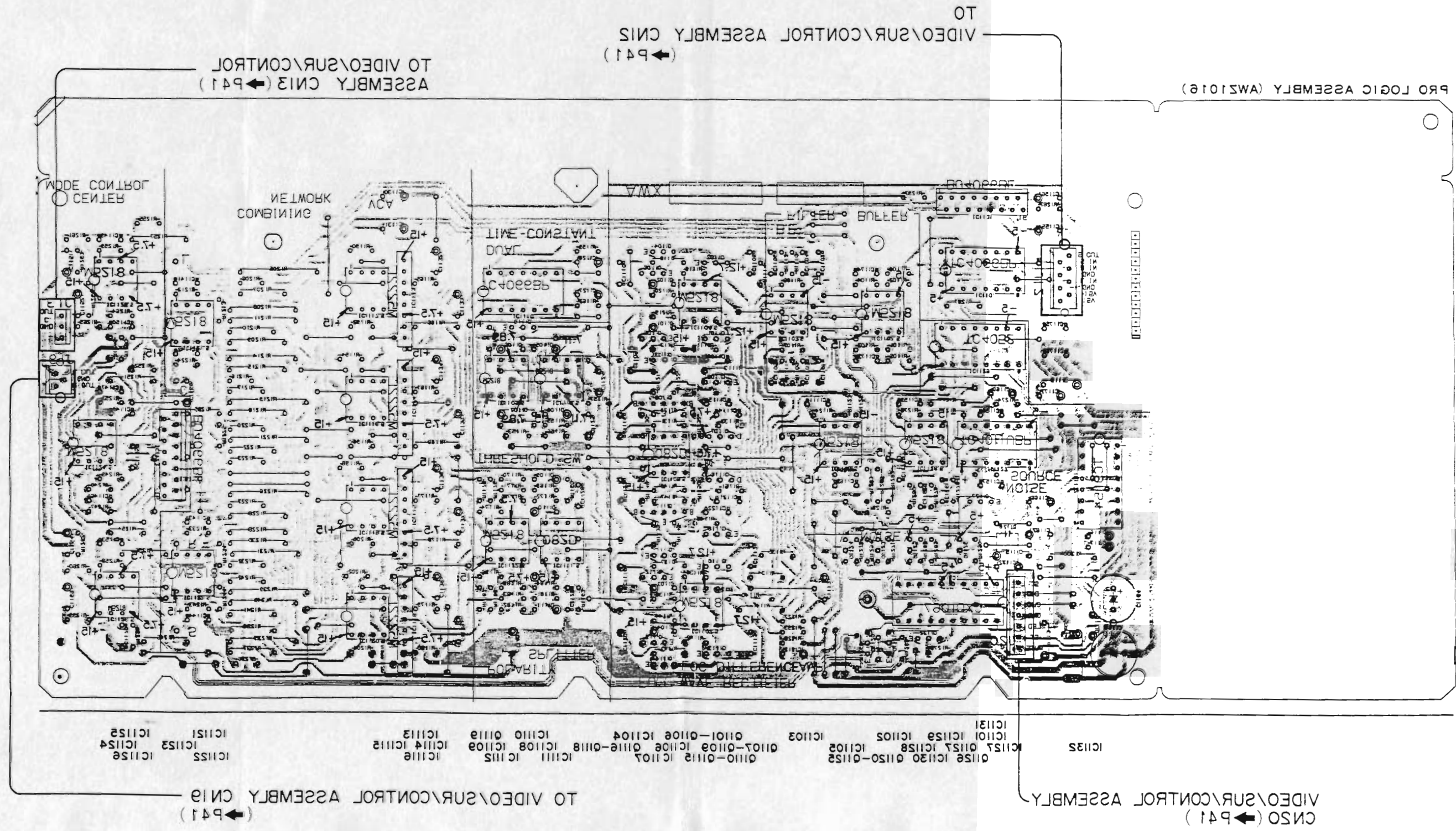
C

D

E

F

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



A

A

B

B

C

C

D

D

6

5

4

3

2

6

5

4

3

2

1

32

**5.4 PRO LOGIC ASSEMBLY
VSX-9300S ONLY**

2 | 3 | 4 | 5 | 6

A

A

B

B

C

C

D

D

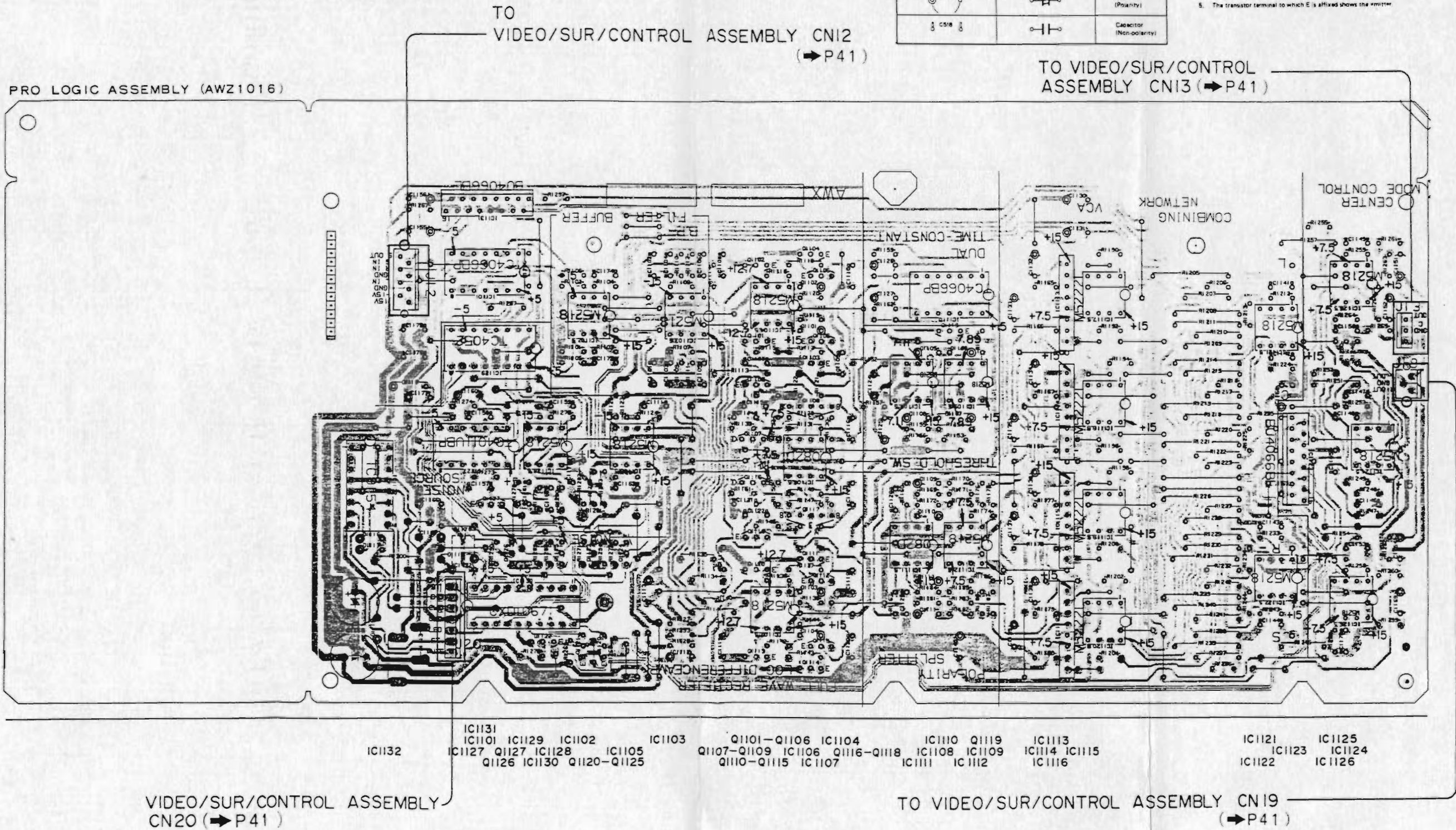
- NOTE
1. This P.C.B. connection diagram is viewed from the parts mounted side.
 2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

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
	Switch
	Relay
	Coil
	Filter
	Variable resistor or Semi-fixed resistor

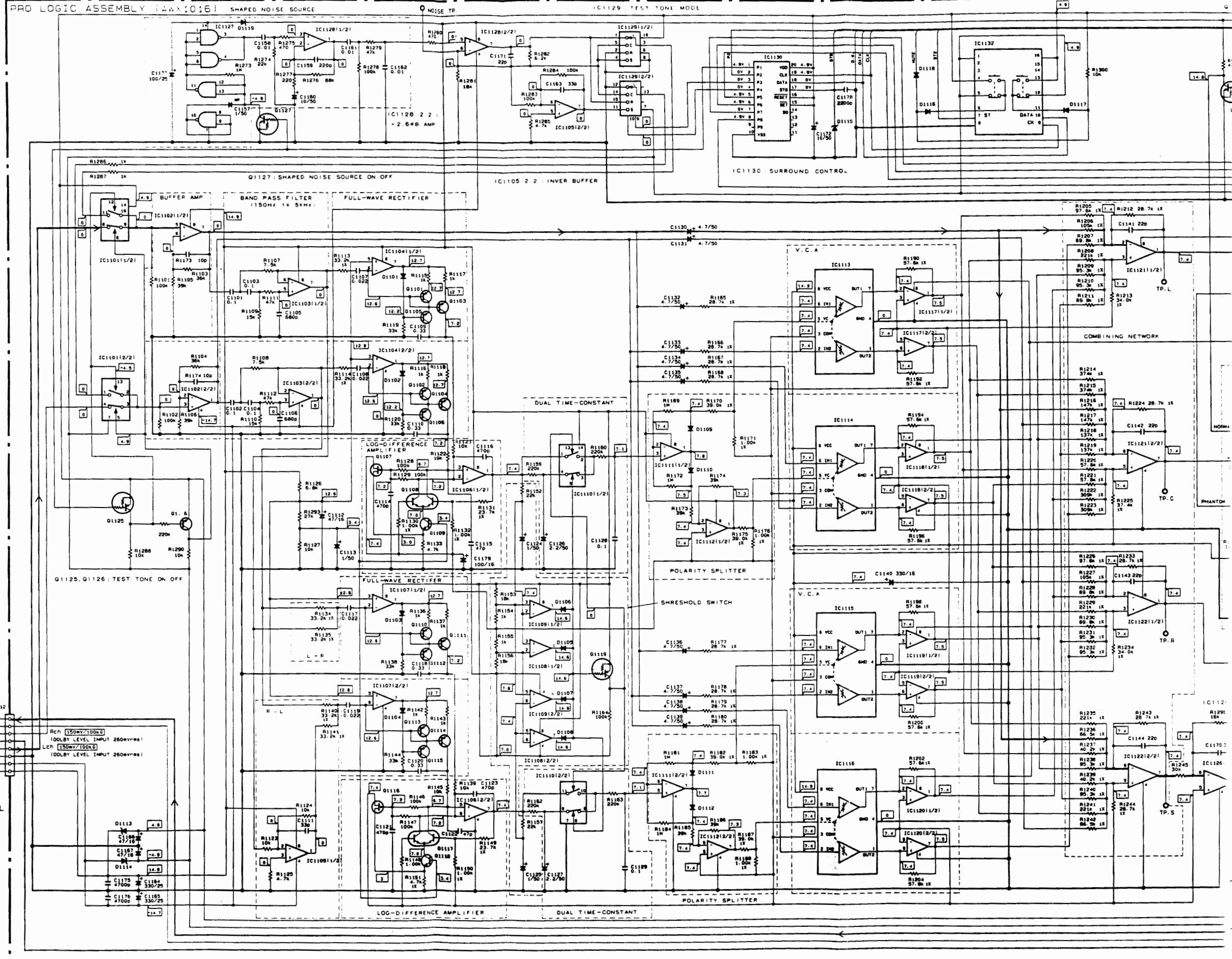
3. The capacitor terminal marked with ⊖ (double circles) shows negative terminal.
4. The diode terminal marked with ⊕ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



IC1131 IC1101 IC1129 IC1102 IC1103 Q1101-Q1106 IC1104 IC1110 Q1119 IC1113 IC1121 IC1125
 IC1132 IC1127 Q1127 IC1128 IC1105 Q1107-Q1109 IC1106 Q1116-Q1118 IC1108 IC1109 IC1114 IC1115
 Q1126 IC1130 Q1120-Q1125 Q1110-Q1115 IC1107 IC1111 IC1112 IC1116 IC1122 IC1126

1 | 2 | 3 | 4 | 5 | 6

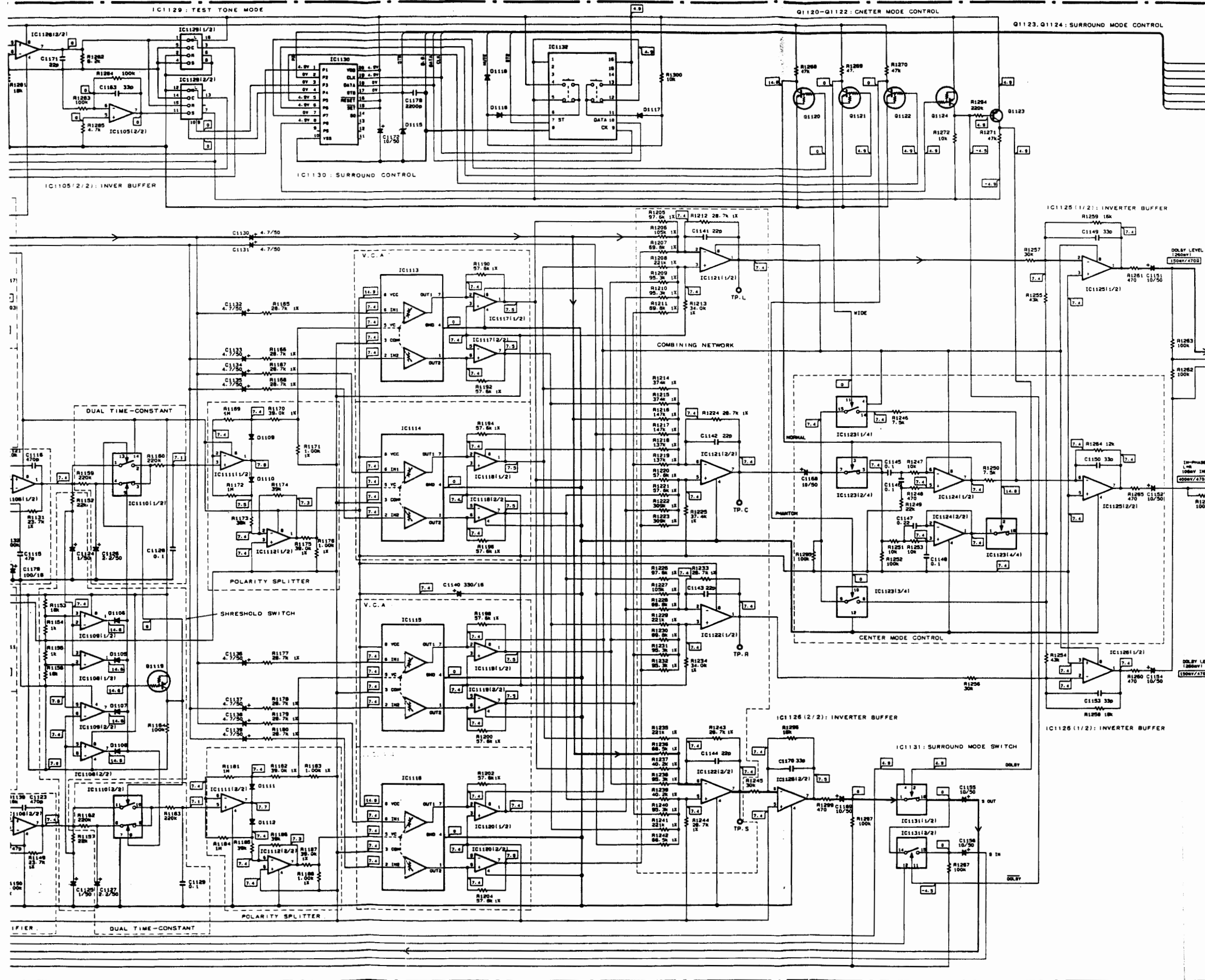
5.4 PRO LOGIC ASSEMBLY
VSX-9300S ONLY



A
B
C
D

1 2 3 4 5 6

TO VIDEO/SUR/CONTROL
ASSEMBLY CN12
(P38)



- IC1123,IC1131 BU4068BL
- IC1130 CXD1067P
- IC1102-IC1105,IC1107-IC1109, M5218PF
- IC1112,IC1117-IC1122,IC1124- IC1126,IC1128
- IC1113-IC1116 M5222L
- IC1106,IC1111 NJM082D
- IC1127 TC4011UBP
- IC1129 TC4052BP
- IC1101,IC1110 TC4068BP
- IC1132 TC9154AP
- Q1120-Q1122,Q1127 RN1203
- Q1119,Q1124,Q1125 RN2203
- Q1101-Q1106,Q1110-Q1115, 2SA1048
- Q1123,Q1126 Q1108,Q1117 2SC2259
- Q1109,Q1118 2SC2458
- Q1107,Q1118 2SJ74
- D1113,D1114 RD10ESB2
- D1119 RD5.1ESB
- D1115 RD5.6ESB
- D1101-D1112,D1116-D1118 1SS252

A

B

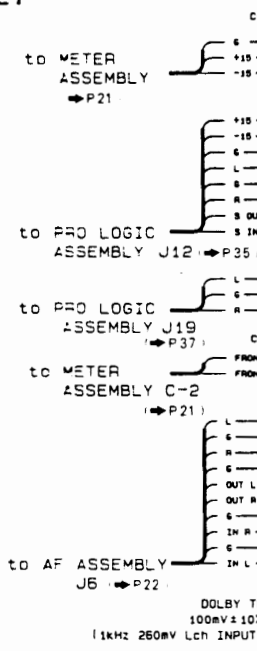
C

D

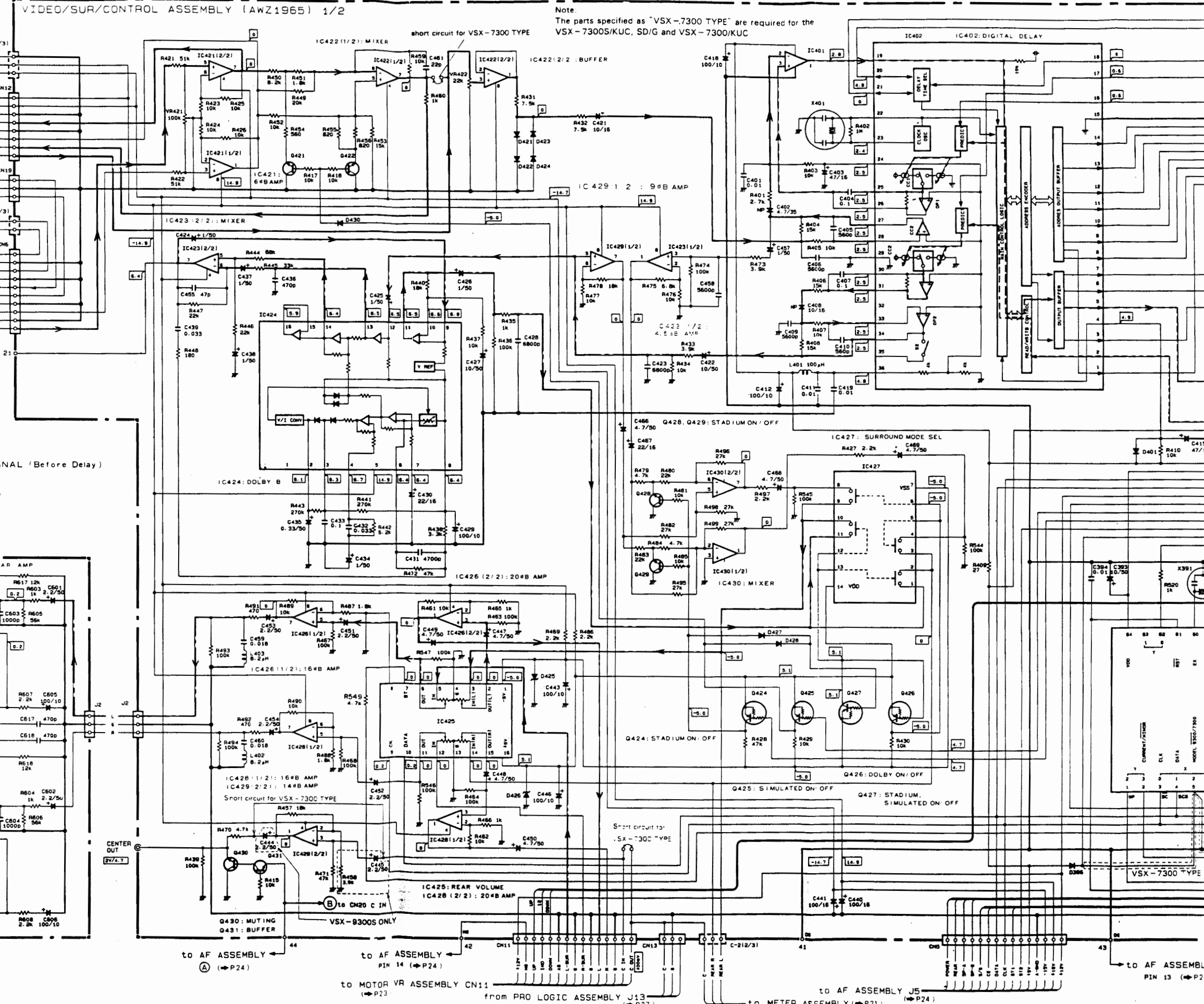
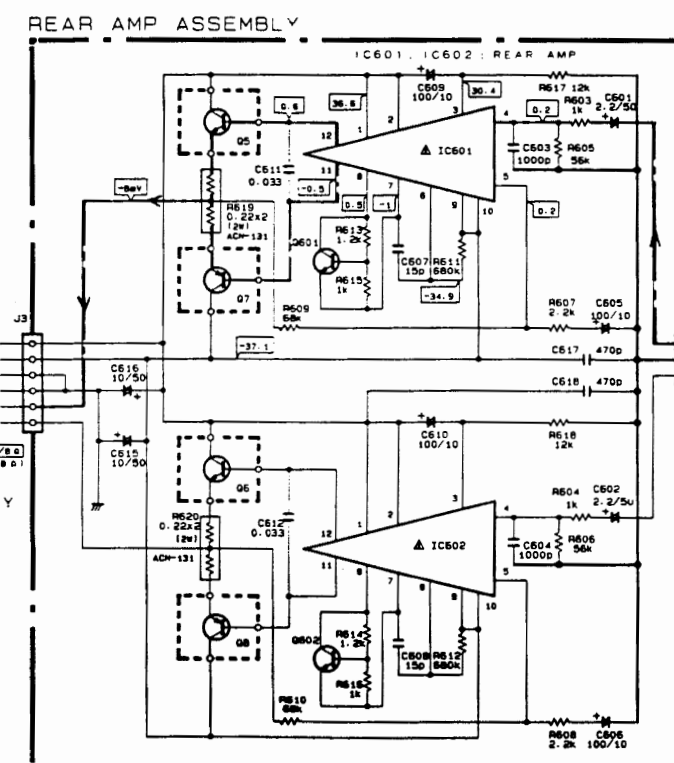
VSX-9300S

5.5 VIDEO/SURROUND/CONT (1/2) AND REAR AMP ASSEMBLY AUDIO SECTION

- | | |
|--|------------|
| IC424 | LA2730 |
| IC403 | M5K4164AP |
| IC402 | M50199P-15 |
| IC421-IC423 | M5218PF |
| IC426, IC428 | -IC430 |
| IC401 | M5233P |
| IC391 | PDG021-A |
| IC427 | TC4066BP |
| IC425 | TC9154AP |
| Q393 | RN1201 |
| Q424-Q426 | RN2203 |
| Q431 | 2SA1048 |
| Q391, Q394 | 2SC2458 |
| Q421, Q422, Q428-Q430 | 2SC2878 |
| D425, D426 | RD5.1ESB |
| D391-D396, D401, D421-D424, D427, D428, D430 | 1SS252 |



— : MAIN ROUTE
 - - - : SUB ROUTE and DIGITAL SIGNAL (Before Delay)
 - · - · : DELAYED SIGNAL
 - · - · : DIGITAL SIGNAL After Delay



Note:
The parts specified as "VSX-7300 TYPE" are required for the VSX-7300S/KUC, SD/G and VSX-7300/KUC

A
B
C
D



4

5

6

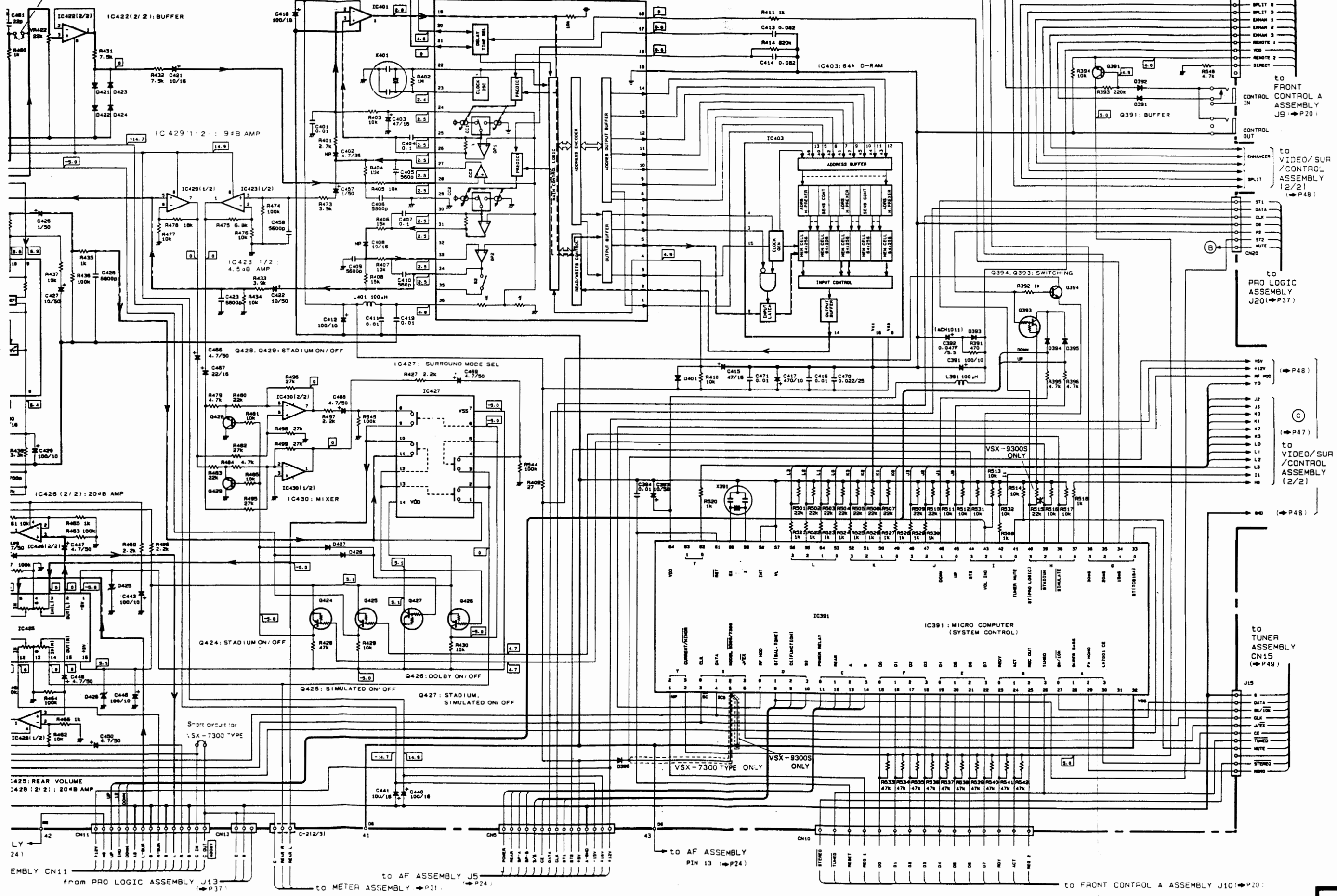
7

8

9

Note:
The parts specified as "VSX-7300 TYPE" are required for the
VSX-7300S/KUC, SD/G and VSX-7300/KUC

rt circuit for VSX-7300 TYPE



A

B

C

D

4

5

6

7

8

9

VIDEO/SURROUND/CONT AND REAR AMP ASSEMBLY

1

2

3

4

5

6

TO PRO LOGIC ASSEMBLY J19
(→ P33)

TO PRO LOGIC ASSEMBLY J12
(→ P33)

VIDEO/SUR/CONTROL ASSEMBLY (AWZ1965)

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

P.C.B. pattern diagram indication

	0504
	Q215
	D203
	R237
	C513
	C518

A

TO AF, HEADPHONE MOTOR-VOL TERMINAL ASSEMBLIES (A)
(→ P25)

B

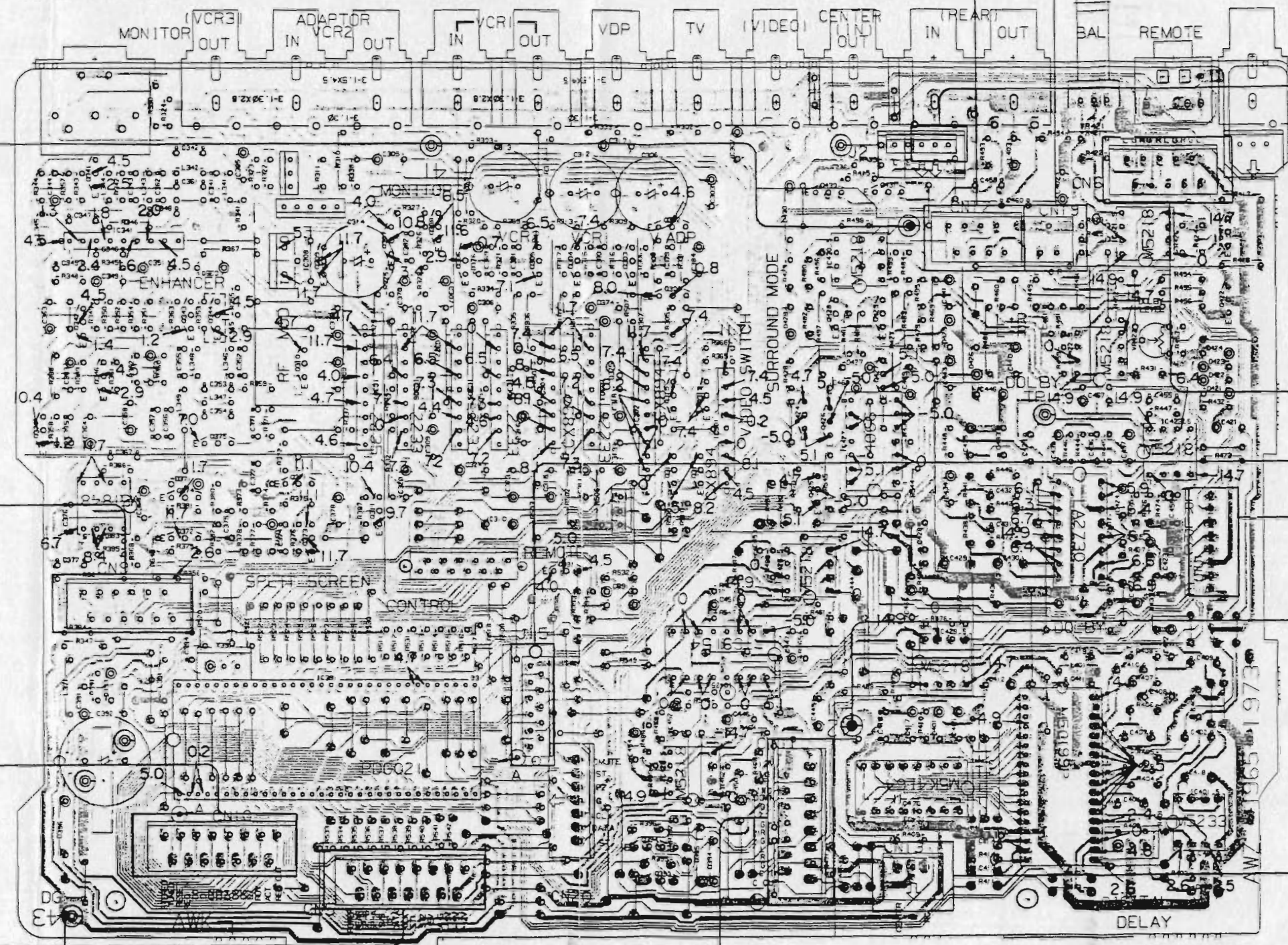
FRONT CONTROL A ASSEMBLY J9
(→ P17)

C

TO FRONT CONTROL A ASSEMBLY J10
(→ P17)

D

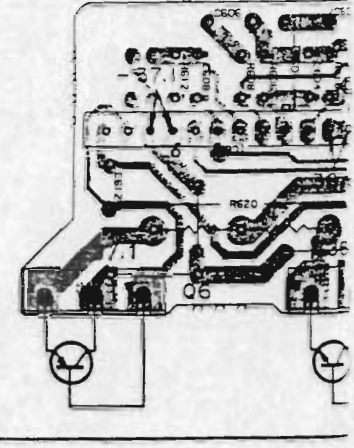
TO AF ASSEMBLY J5
(→ P25)



TO AF A
TO TUN

TO AF ASSEMBLY 14
(→ P25)

REAR AMP ASSEMBLY



- | | | | | | | | | | |
|-------|-----------|-------|-------------|-----------|-----------|-------|-------|-------|-------|
| Q341 | IC341 | IC308 | Q309 | Q301-Q308 | Q430 | IC430 | Q431 | IC421 | Q421 |
| Q346 | Q342-Q344 | Q310 | IC301-IC307 | IC309 | Q424-Q429 | IC427 | IC422 | IC423 | Q422 |
| IC371 | Q371-Q376 | Q311 | Q391 | Q313-Q316 | IC426 | Q425 | IC424 | IC429 | IC424 |
| | IC391 | | | Q394 | Q393 | IC428 | IC403 | IC402 | IC401 |

TO AF ASSEMBLY 13
(→ P25)

1

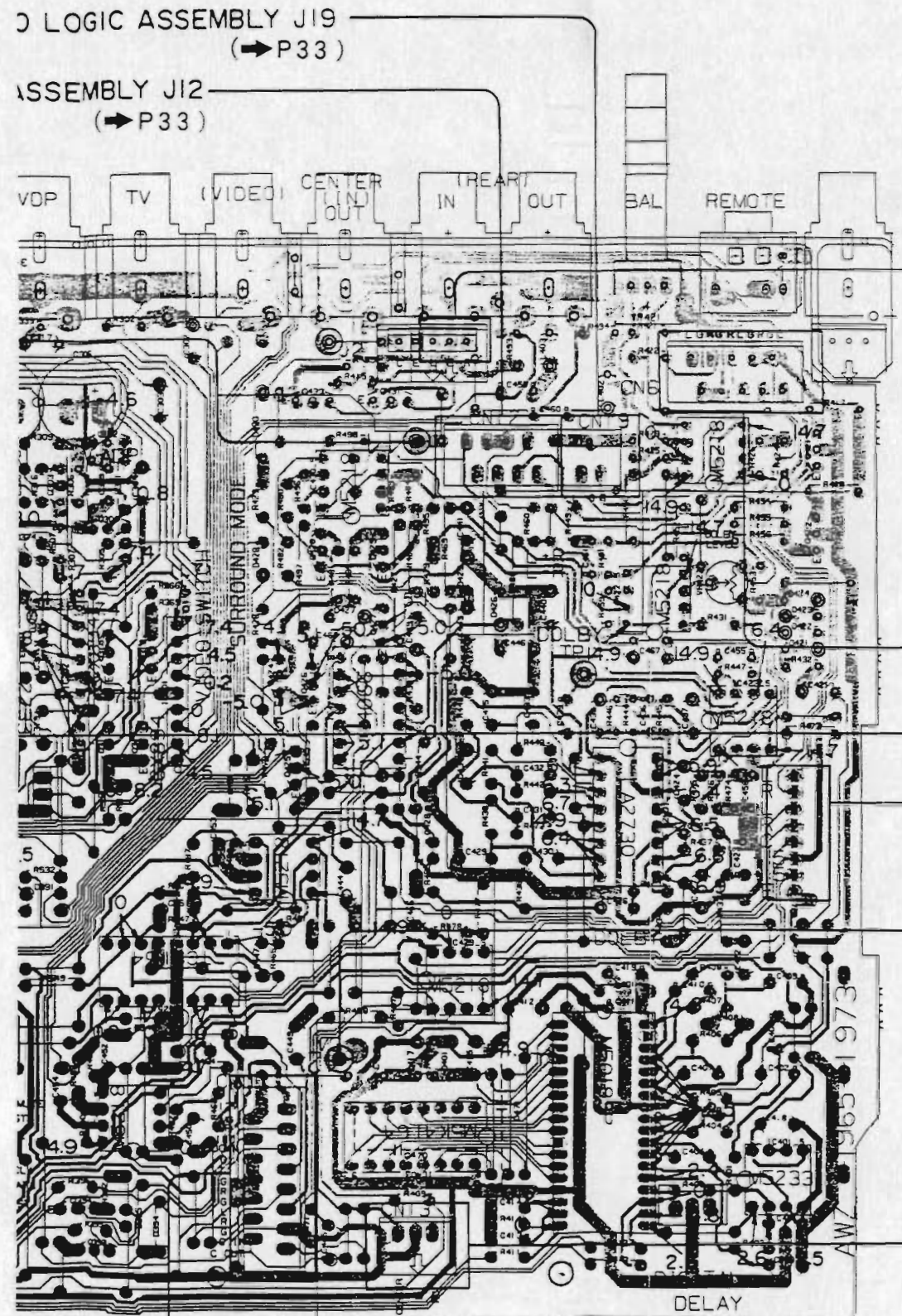
2

3

4

5

6



LOGIC ASSEMBLY J19
(→P33)

ASSEMBLY J12
(→P33)

VDP TV VIDEO CENTER (IN) OUT (REAR) IN OUT BAL REMOTE

SURROUND MODE

5

4

3

2

1

VR421 VR422

313-Q316 Q430 IC430 Q431
IC425 Q424-Q429 IC427
Q394 Q393 IC426 Q425 IC429
IC428 IC403 IC402

IC421 Q421
IC422 IC423 Q422
IC424
IC402 IC401

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.

TO AF ASSEMBLY J6 (→P25)

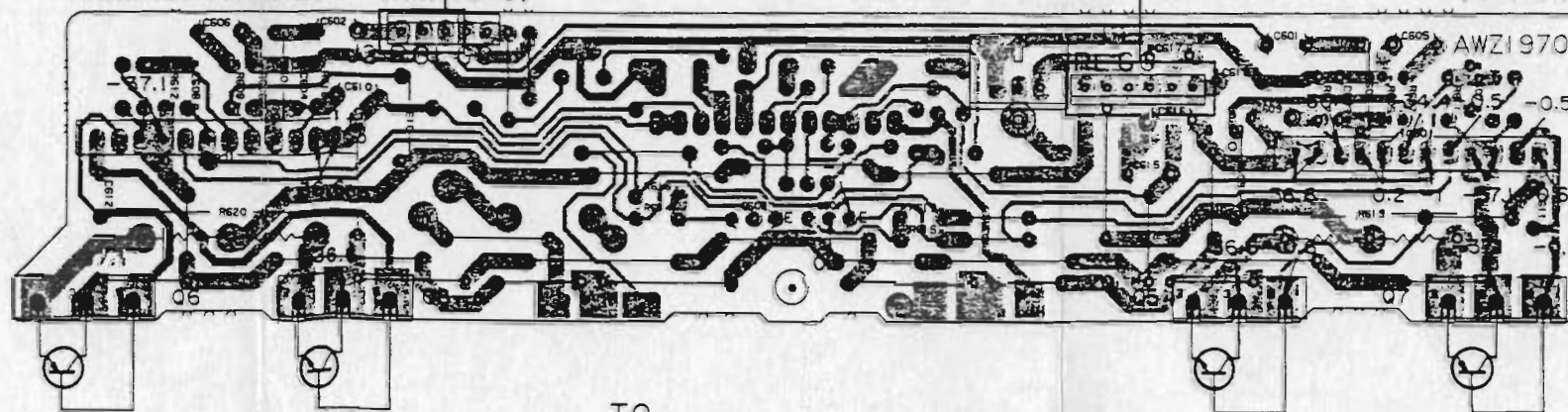
TO TUNER ASSEMBLY CNI5 (→P51)

TO METER AMP ASSEMBLY C-2 (→P17)

TO AF ASSEMBLY I4 (→P25)

REAR AMP ASSEMBLY (AWZ1970)

TO AF ASSEMBLY CN3 (→P25)



TO PRO LOGIC ASSEMBLY J13 (→P33)

TO MOTOR-VOL ASSEMBLY J11 (→P25)

A

B

C

D

2 4 6 2 4

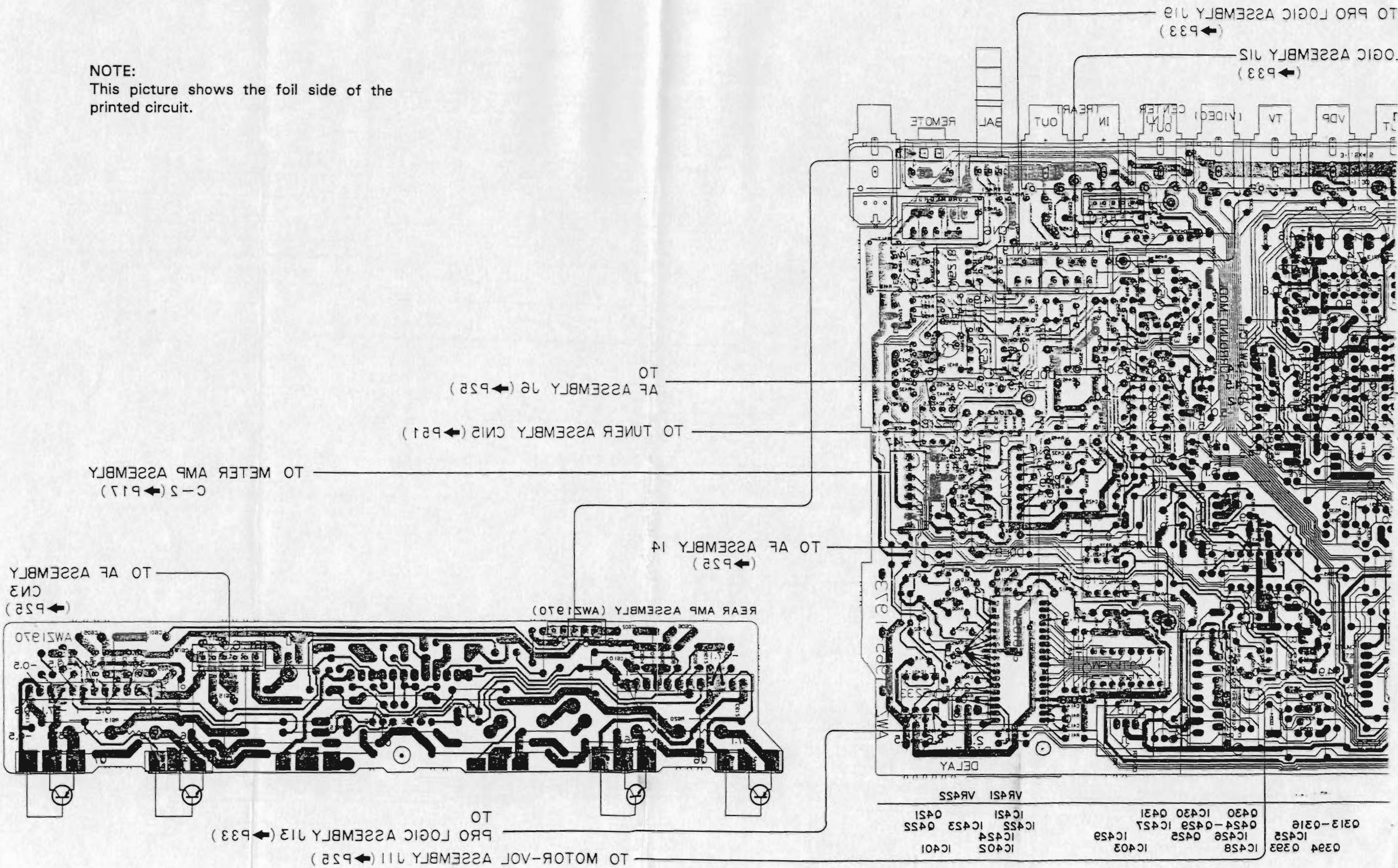
A

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

B

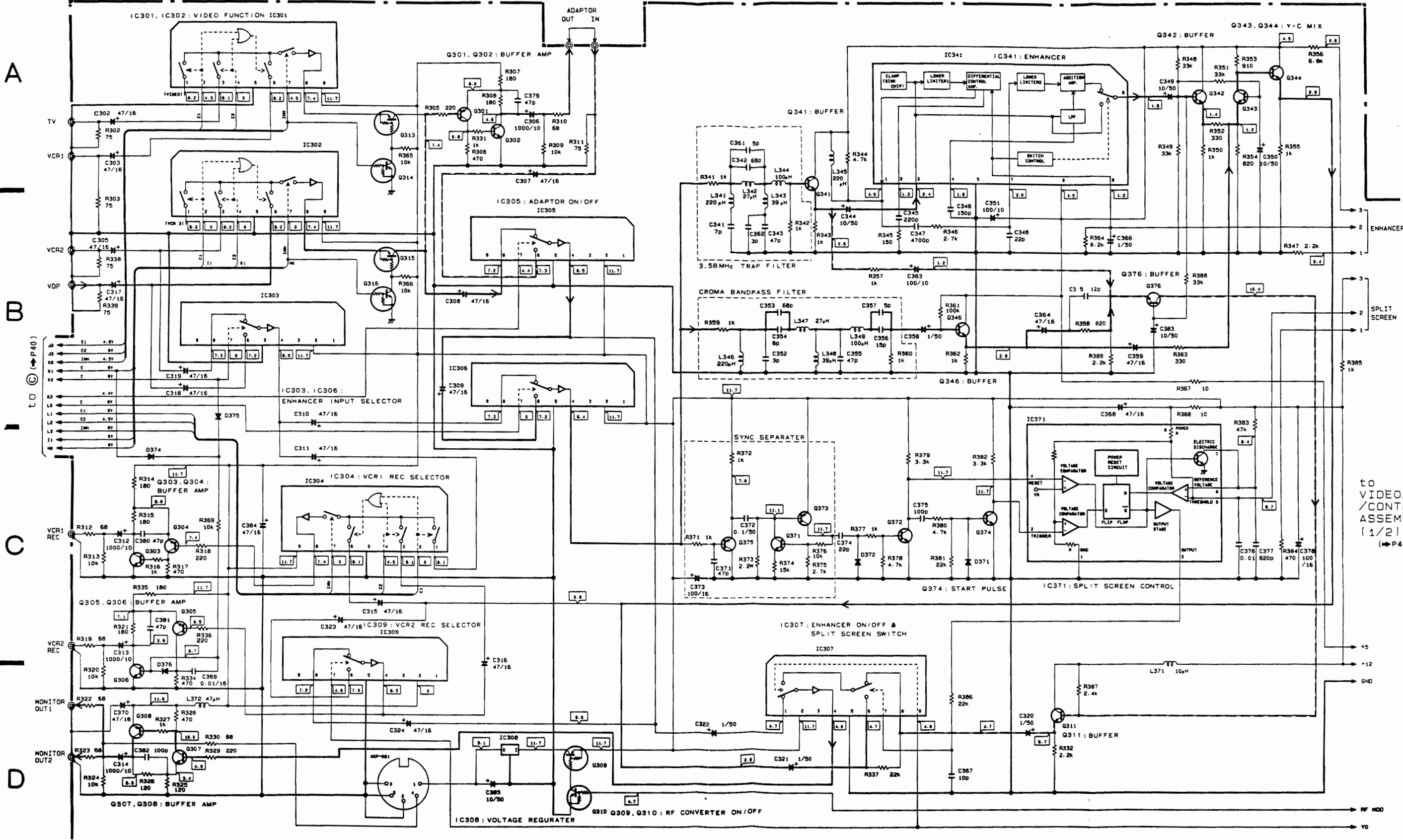
C

D



2 4 6 2 4

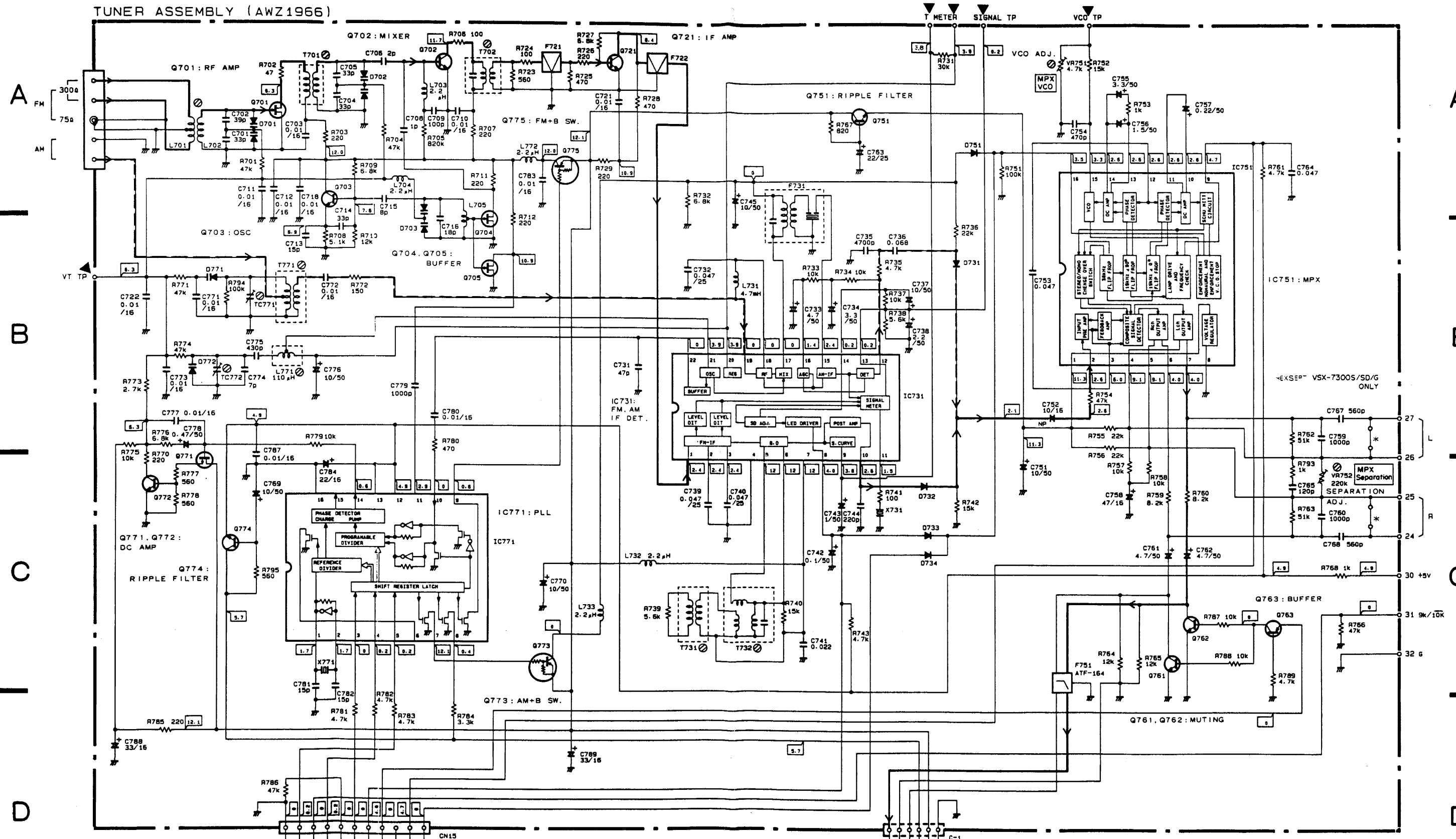
VIDEO/SURROUND/CONT (2/2) VIDEO SECTION
VIDEO/SUR/CONTROL ASSEMBLY (AWZ1965) 2/2



- | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------------------------|----------------------------|---------------------------------|--|---|
| IC301, IC302, CX-894
IC304 | IC371 M51848P
IC341 NJM2209S | IC303, IC305, NJM2233BS
IC306, IC309 | IC307 NJM2235S
IC308 μ PC78L05 | Q310, Q313- RN1203
Q316 | D371, D372, 1SS252
D374-D376 | Q309 RN2201
Q301, Q304, Q305, 2SA1048
Q308, Q373, Q375 | Q302, Q303, Q306, Q307, Q311, 2SC2458
Q341-Q344, Q346, Q371, Q372,
Q374, Q376 |
|-------------------------------|---------------------------------|---|---------------------------------------|----------------------------|---------------------------------|--|---|

5.6 TUNER ASSEMBLY

TUNER ASSEMBLY (AWZ1966)



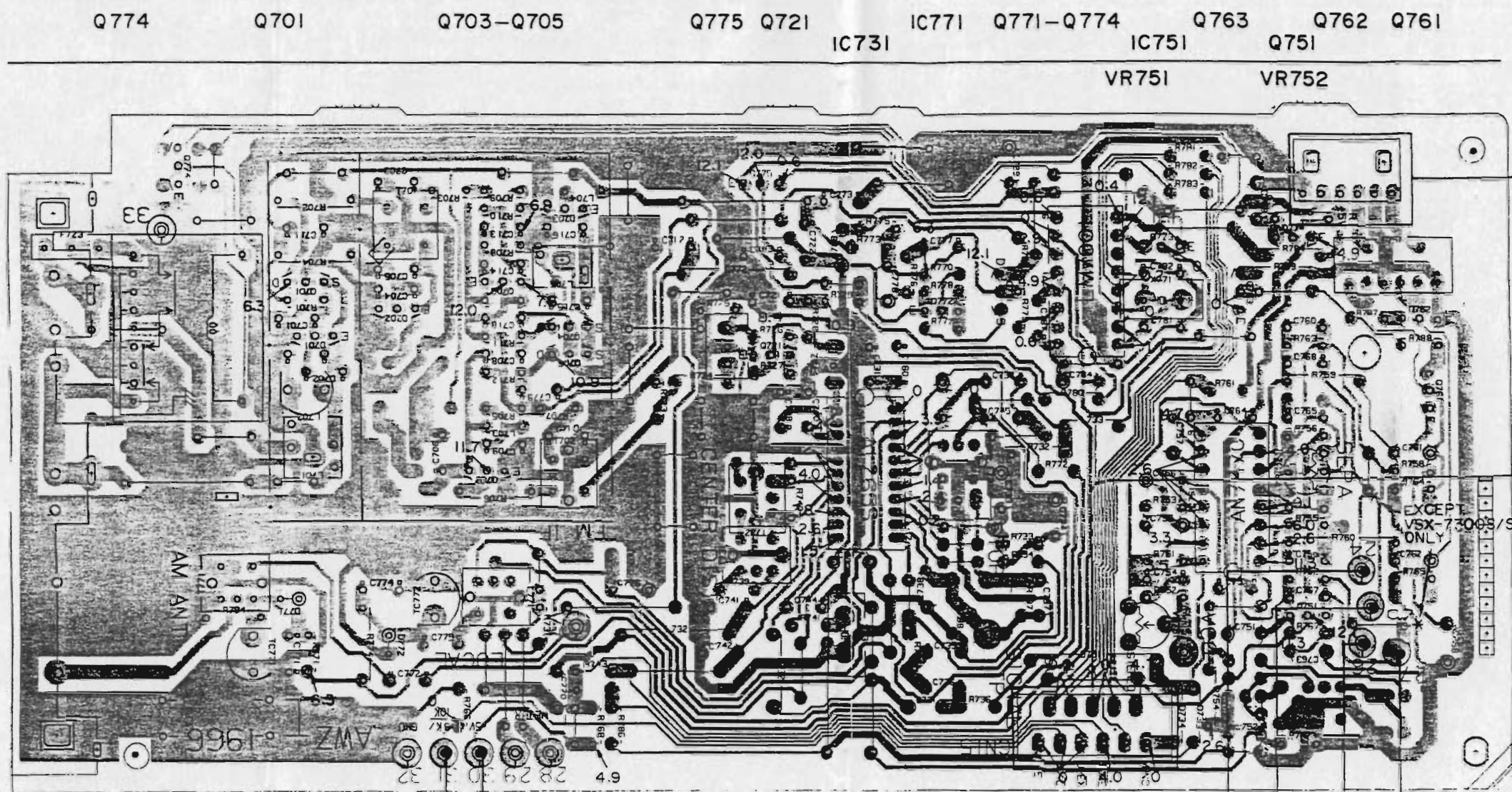
- Q773, Q775 RN2201
- Q763 2SA1048
- Q772 2SC1740SLN
- Q751, Q761, Q762, Q774 2SC2458
- Q703, Q721 2SC2668

to VIDEO/SUR/CONTROL ASSEMBLY J15 (P41)

to AF ASSEMBLY C-1 (P22)

- Q751 AN7470P
- Q702 2SC2786 IC731 LA1285S
- Q704, Q705 2SK161 IC771 LM7001
- D771, D772 SVC321C2-SP
- D731-D734, D751 1SS252
- D701-D703 1SV147

TUNER ASSEMBLY



TUNER ASSEMBLY (AWZ1966)

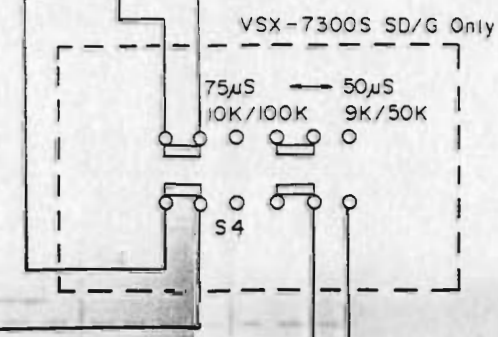
NOTE
 1. This P.C.B. connection diagram is viewed from the parts mounted side.
 2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Tables.

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

1. The resistor 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.

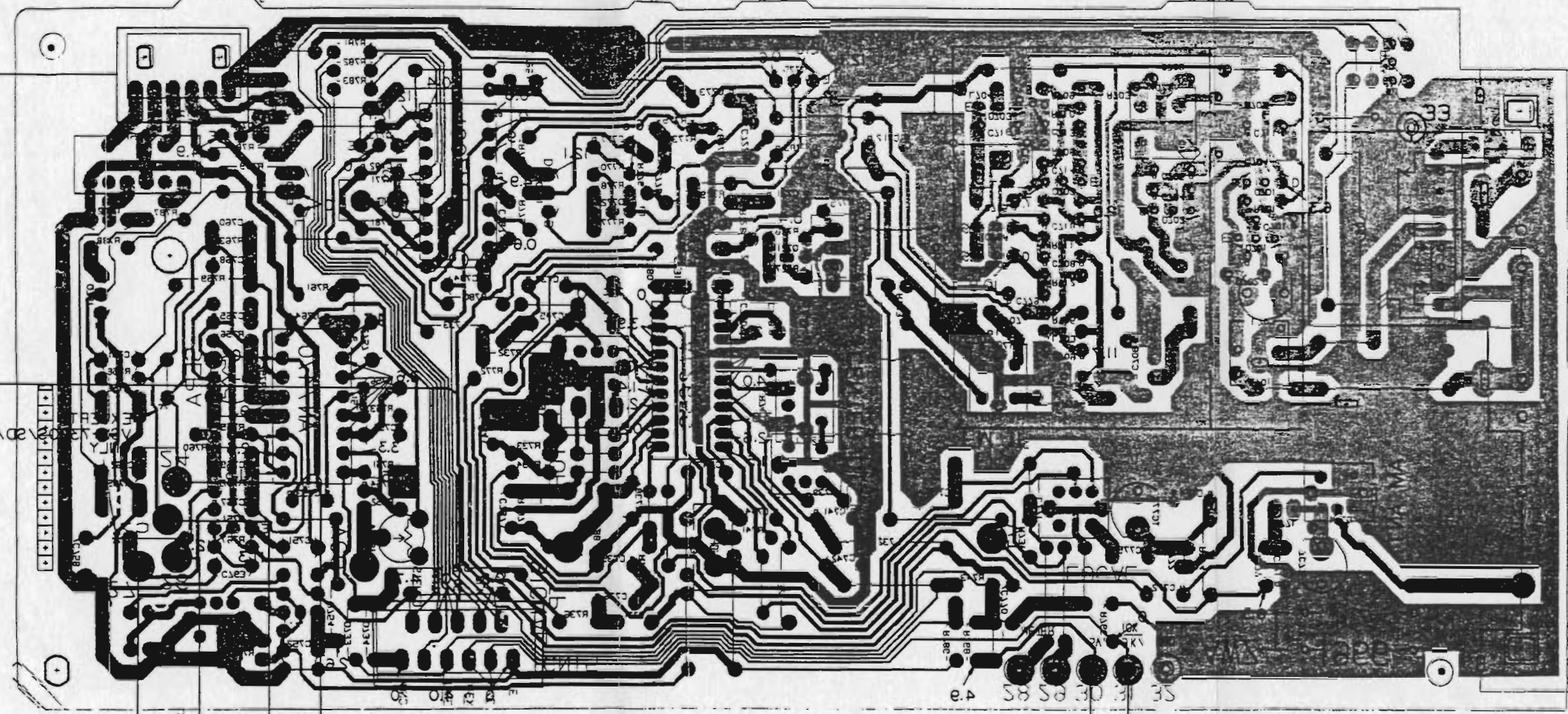


TO AF ASSEMBLY
C-1 (P25)

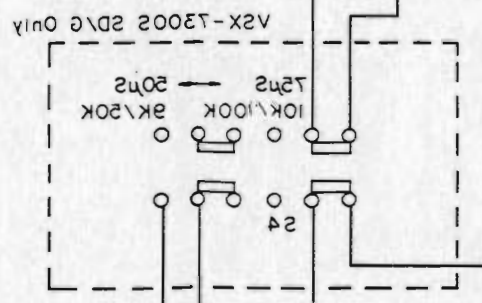
TO VIDEO/SUR/CONTROL
ASSEMBLY J15
(P41)
EXCEPT VSX-7300S/SD/G ONLY

0774 0701 0703-0702 0775 0751 IC131 IC131 0771-0774 0763 0751 VR751 VR752

TO AF ASSEMBLY
C-1 (P25)
TO
VIDEO SUR CONTROL
ASSEMBLY J15
P41

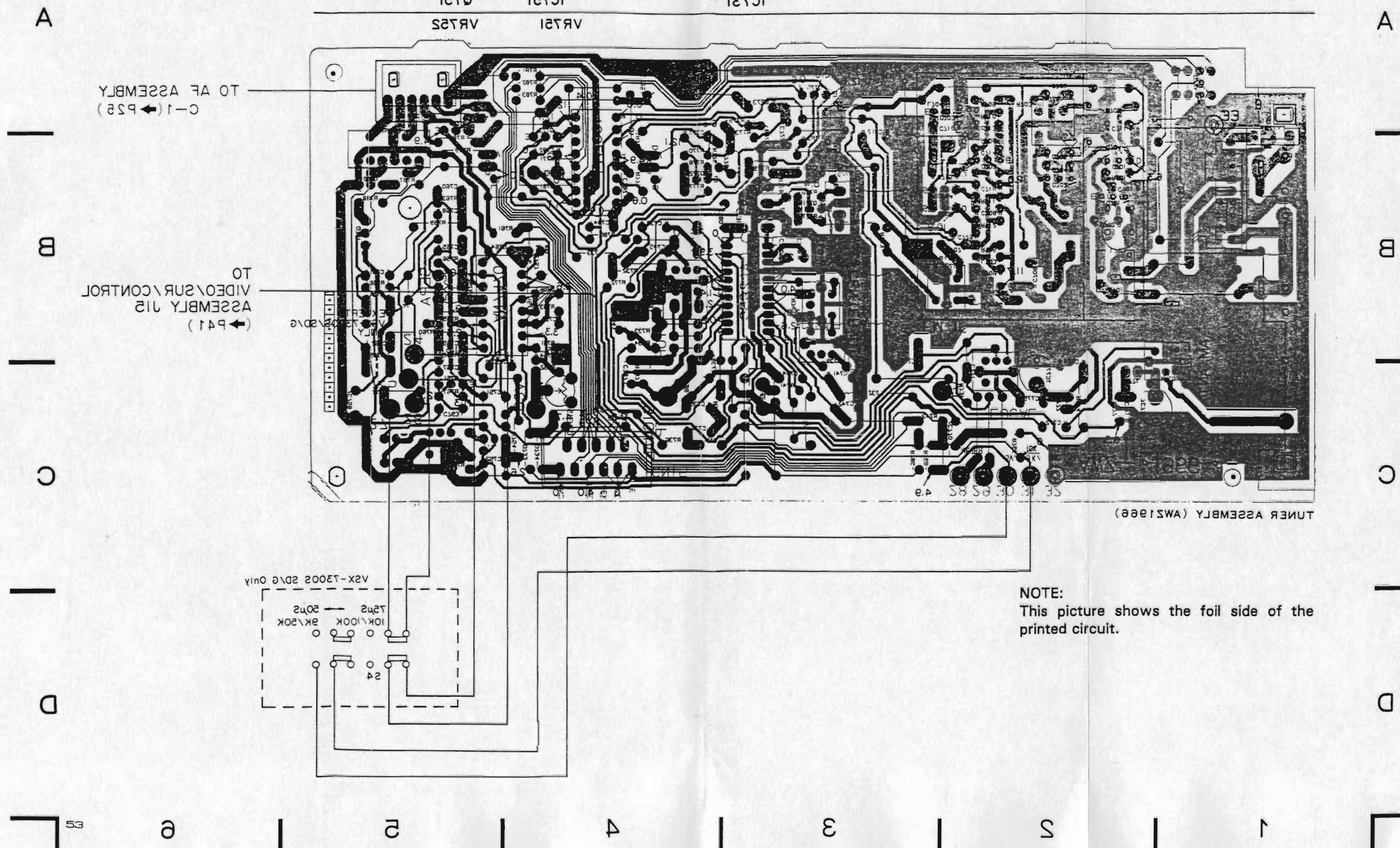


TUNER ASSEMBLY (AW1888)


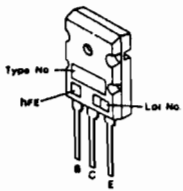

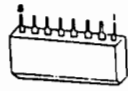
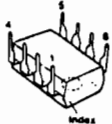

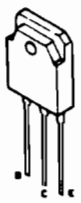
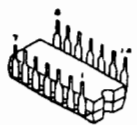
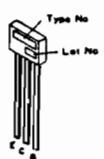
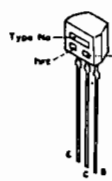
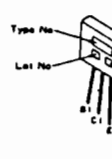

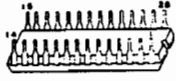
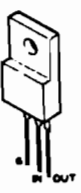
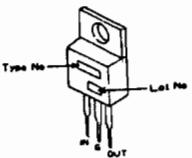
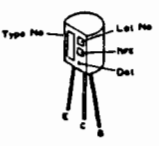
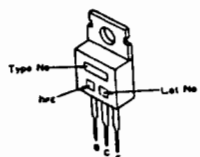
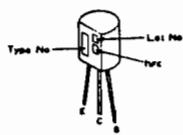

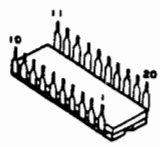
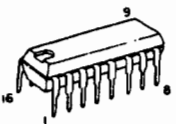
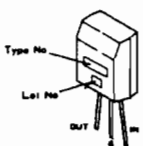
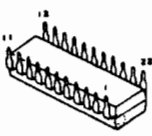
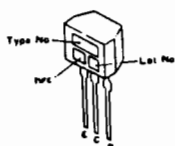
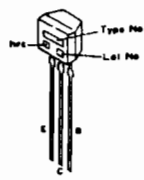
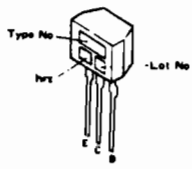
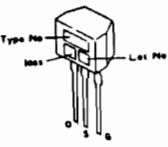
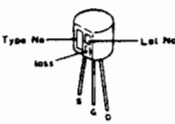
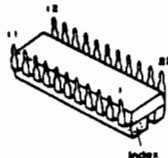
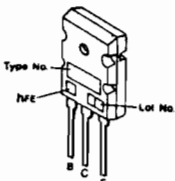

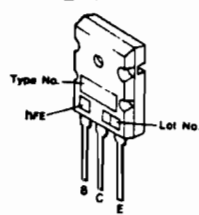
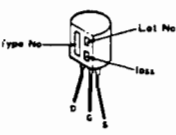
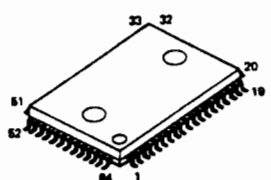
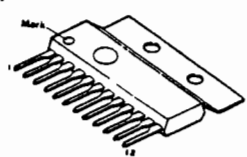


V2X-33002 SDVG Only

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



External Appearance of Transistors and ICs

<p>2SA1263N</p> 	<p>2SA1302</p> 	<p>M5218PF M5220P M51848P M5233P</p> 	<p>M5222L M5220L M5218LF</p> 	<p>NJM082D</p> 	<p>TC4052BP TC9154AP AN7470P TC9184P TC4011UBP</p> 	<p>2SC3180N</p> 
<p>BU4066BL TC4066BP PA0016 LA2730</p> 	<p>RN1203 RN2203 RN1201 RN2201</p> 	<p>2SA1048 2SC2458</p> 	<p>2SC2259 2SA979</p> 	<p>M5201P</p> 	<p>TC9162N TC9164N PDG021</p> 	<p>NJM79M15A</p> 
<p>μPC78M05H μPC78M15H</p> 	<p>2SA1145P</p> 	<p>2SA968 2SC2238</p> 	<p>2SC2240 2SC2705P 2SC2878</p> 	<p>CX-894 TA7291S NJM2209S NJM2233AS NJM2235S</p> 	<p>CXD1067 CXD1067P</p> 	
<p>M5K4164AP</p> 	<p>μPC78L05</p> 	<p>LA1265S</p> 	<p>2SC2668</p> 	<p>2SC2786</p> 	<p>2SC1740SLN</p> 	
<p>2SK161 2SK241</p> 	<p>2SK246</p> 	<p>M50199P</p> 	<p>2SC2181</p> 	<p>TC9154AP</p> 	<p>2SC3281</p> 	
<p>2SJ74</p> 	<p>PDG020</p> 	<p>μPC1270H</p> 				

6. 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.
 - For your parts Stock Control, the fast moving items are indicated with the marks ** and *.
 - ** GENERALLY MOVES FASTER THAN *
 - This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
 - 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..... | RD14PS | □ | □ | J |
| 47kΩ | 47 × 10 ³ | 473..... | RD14PS | □ | □ | 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..... | RN14SR | □ | □ | □ | F |
|--------|-----------------------|-----------|--------|---|---|---|---|

Miscellaneous Parts

P.C. BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.
	Pro logic assembly	AWX1016
	AF assembly	AWZ1961
	VIDEO/SUR/CONTROL assembly	AWZ1965
	Tuner assembly	AWZ1966
	Front control A assembly	AWZ1967
	Headphone assembly	
	Motor - volume assembly	
	Terminal assembly	
	Front control B assembly	
	Meter amp assembly	
	Rear amp assembly	
	Vol IND assembly	

OTHERS

Mark	Symbol & Description	Part No.
Δ★★	Q7, Q8 transistor	2SA1263N
Δ★★	Q3, Q4 transistor	2SA1302
Δ★★	Q5, Q6 transistor	2SC3180N
Δ★★	Q1, Q2 transistor	2SC3281
Δ★	T1 Power transformer (AC120V)	ATS1144
Δ	AC socket (3P OUTLET)	AKP-515 (AKP-504)
Δ★★	S1 Speaker impedance selector	AKX1004
Δ★★	FU3, FU4 Fuse (6A/125V)	AEK-109
Δ★★	FU1 Fuse (10A/125V)	AEK-310
Δ★★	FU5, FU8 Fuse (1.25A/125V)	AEK-120
Δ	AC power cord	ADG1031 (ADG1001)
Δ	R1 2.2MΩ	ACN-209

Pro logic assembly (AWX1016)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC1123, IC1131	8U4066BL
★★	IC1130	CXD1067P
★★	IC1102 - IC1105, IC1107 - IC1109, IC1112, IC1117 - IC1122, IC1124 - IC1126, IC1128	M5218PF
★★	IC1113 - IC1116	M5222L
★★	IC1106, IC1111	NJM082D
★★	IC1127	TC4011UBP
★★	IC1129	TC4052BP
★★	IC1101, IC1110	TC4066BP
★★	IC1132	TC9154AP
★★	Q1120 - Q1122, Q1127	RN1203
★★	Q1118, Q1124, Q1125	RN2203
★★	Q1101 - Q1106, Q1110 - Q1115, Q1123, Q1126	2SA1048
★★	Q1108, Q1117	2SC2259
★★	Q1109, Q1118	2SC2458
★★	Q1107, Q1116	2SJ74
★	D1113, D1114	RD10ESB2
★	D1119	RD5.1ESB
★	D1115	RD5.6ESB
★	D1101 - D1112, D1116 - D1118	1SS252

CAPACITORS

Mark	Symbol & Description	Part No.
	C1173, C1174	CCMSL100D50
	C1141 - C1144, C1171	CCMSL220J50
	C1111, C1149, C1150, C1163, C1163, C1170	CCMSL330J60
	C1115, C1122	CCMSL470J50
	C1157	CEANP010M50

Mark	Symbol & Description	Part No.
	C1113, C1124, C1125	CEAS010M50
	C1151, C1152, C1154 - C1156, C1160, C1168, C1169, C1172	CEAS100M50
	C1179	CEAS101M16
	C1177	CEAS101M25
	C1126, C1127	CEAS2R2M50
	C1140	CEAS331M16
	C1164, C1165	CEAS331M25
	C1130 - C1139	CEAS4R7M50
	C1112, C1166, C1167	CEAS470M16
	C1158, C1161, C1162	CFTXA103J50
	C1101 - C1104, C1128, C1129, C1145, C1146, C1148	CFTXA104J50
	C1107, C1108, C1117, C1119	CFTXA223J50
	C1147	CFTXA224J50
	C1109, C1110, C1118, C1120	CFTXA334J50
	C1178	CKDYB222K50
	C1159	CKMYB221K50
	C1114, C1116, C1121, C1123	CKMYB471K50
	C1105, C1106	CKMYB681K50
	C1175, C1176	CKMYF472Z50

RESISTORS

Mark	Symbol & Description	Part No.
	R1113, R1114, R1130 - R1132, R1134, R1135, R1140, R1141, R1148 - R1150, R1165 - R1168, R1170, R1171, R1175 - R1180, R1182, R1183, R1190, R1192, R1194, R1196, R1198, R1200, R1202, R1204 - R1244	RN1/4PC□□□□F

Other resistors

RD1/BPM□□□J

AF assembly (AWZ1961)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC153	M5201P
★★	IC151, IC152	M5218LF
★★	IC104	M5218PF
★★	IC165	M5220L
★★	IC51	M5220P
★★	IC505	NJM79M15A
★★	IC201, IC202	PA0016
★★	IC167	TC9154AP
★★	IC103	TC9162N
★★	IC101, IC102	TC9164N
★★	IC168	TC9184P
★★	IC503, IC504	μPC78M05H
★★	IC502	μPC78M15H
★★	IC501	μPC7812H
★★	Q151, Q501, Q508, Q509, Q511	RN1201
★★	Q512	2SA1048
★★	Q207, Q208	2SA1145P
★★	Q213, Q214	2SA968
★★	Q201, Q202	2SA979

Mark	Symbol & Description	Part No.
★★	Q211, Q212	2SC2238
★★	Q205, Q206, Q215, Q216, Q507	2SC2240
★★	Q101, Q102, Q502, Q503, Q505, Q506, Q513	2SC2458
★★	Q209, Q210	2SC2705P
★	D514	D5SB20F
★	D217	RD24EB
★	D512	RD4.7ESB
★	D165, D166	RD5.1ESB2
★	D527	RD5.6ESB2
★	D526	RD9.1EB
★	D201 - D216, D218, D219, D501 - D505, D507, D515, D516, D521 - D525, D528 - D531, D535	1SS252
★	D508 - D511, D517 - D520	11E2
★	D513	4D4844

RELIES

Mark	Symbol & Description	Part No.
★★	RY603, RY504	ASR-112
★★	RY501	ASR-612
★★	RY502, RY505	ASR1005

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

CAPACITORS

Mark	Symbol & Description	Part No.
	C515 - C517 (0.01μF/125V)	ACG1003
	C505, C506 (5600μF/42V)	ACH1047
	C503, C504 (8200μF/75V)	ACH1085
	C215, C216 Ceramic capacitor	CCCSL101K500
	C207, C208 Ceramic capacitor	CCCSL270K500
	C217, C218	CCDSL101K500
	C53, C54	CCCSL221J50
	C225, C226	CCCSL151J50
	C101 - C114	CCMSL101J50
	C171, C172, C211 - C214	CCMSL680J50
	C219, C220	CEANP2R2M50
	C64, C169, C170, C518, C523, C524, C526	CEAS010M50
	C51, C52, C179, C180, C508, C509, C512	CEAS100M25
	C521, C527	CEAS100M50
	C510	CEAS102M25
	C514	CEAS102M35
	C61, C62, C115 - C118, C121, C122, C151, C152, C154, C157, C159, C160 - C162, C167, C188, C201, C202, C227	CEAS2R2M50
	C502	CEAS221M10
	C229, C230	CCDSL020C500

Mark	Symbol & Description	Part No.
	C231 - C234	CEAS100M100
	C513	CEAS222M35
	C153	CEAS470M16
	C522,C525	CEHAQ010M50
	C607,C511	CEHAQ470M25
	C55,C56,C209,C210,C501	CEAS471M6
	C221 - C224,C813,C814	CFTXA104J50
	C123,C124,C177,C178,C181,C182	CFTXA153J50
	C57,C58	CFTXA243J50
	C155	CFTXA333J50
	C59,C60,C183,C164	CFTXA823J50
	C191,C192	CKDYB472K50
	C125,C126,C173,C174,C520	CKDYF103Z50
	C63	CKDYX104M25
	C205,C206	CKMYB331K50
	C203,C204	CKMYB152K50
	C158	CKMYF222Z50
	C185,C188	CQMA152J50
	C175,C176	CQMA272J50
	C156	CQMA332J50
	C119,C120	CQMA392K50
	C519	CKDYF473Z50

RESISTORS

Mark	Symbol & Description	Part No.
	R259,R260	ACN1018
	R269 - R272	RS1LMF100J
	R277,R541,R542	RS2LMF□□□J
	R505,R508	RS3LMF□□□J
	R217,R218	RDR1/2PM□□□J
	R201 - R204	RDR1/4PM□□□J
	R211 - R216	RD1/4PMF□□□J
	R239 - R246,R251 - R258,	
	R281 - R284,R516 - R518,R543,	
	R544,R548,R621 - R624	
	R231 - R234,R247 - R250	RFA1/4PS□□□J
	R207 - R210,R219 - R224	RD1/4PM□□□J
	Other resistors	RD1/BPM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Pin jack	AKB1007
	8P Pin jack	AKB1008
	2P Pin jack	AKB1039
	2P Pin jack	AKB1059
	4P Speaker terminal	AKE1007
	4P Speaker terminal	AKE1011
	Screw	ABA1012

VIDEO/SUR/CONTROL assembly (AWZ1965)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC301,IC302,IC304	CX - B94
★★	IC424	LA2730
★★	IC403	M5K4184AP - 15
★★	IC402	M50199P
★★	IC371	M51848P
★★	IC421 - IC423,IC426,IC428 - IC430	M5218PF
★★	IC401	M5233P
★★	IC341	NJM2209S
★★	IC303,IC305,IC306,IC309	NJM2233BS
★★	IC307	NJM2235S
★★	IC391	PDG021 - A
★★	IC427	TC4065BP
★★	IC425	TC9154AP
★★	IC308	μPC78L05
★★	Q393	RN1201
★★	Q310,Q313 - Q316,Q316,Q427	RN1203
★★	Q309	RN2201
★★	Q424 - Q426	RN2203
★★	Q301,Q304,Q305,Q308,Q373,Q375,Q431	2SA1048
★★	Q302,Q303,Q306,Q307,Q311,Q341 - Q344,Q346,Q371,Q372,Q374,Q376,Q391,Q394	2SC2458
★★	Q421,Q422,Q428 - Q430	2SC2878
★	D425,D426	RD5.1ESB
★	D371,D372,D374 - D376,D391 - D396,D401,D421 - D424,D427,D428,D430	1SS252

COILS & TRANSFORMERS

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

CAPACITORS

Mark	Symbol & Description	Part No.
	C392(47000μF/5.5V)	ACH1011
	C348	CCCSL151J50
	C345	CCCSL221J50
	C374	CCMCH220J50
	C352,C362	CCMSL030C50

Mark	Symbol & Description	Part No.
	C357,C361	CCMSL050C50
	C354	CCMSL080D50
	C341	CCMSL070D50
	C367	CCMSL100D50
	C375,C382	CCMSL101J50
	C365	CCMSL120J50
	C356	CCMSL150J50
	C346,C461	CCMSL220J50
	C343,C355,C371,C379 - C381,C455	CCMSL470J50
	C342,C353	CCMSL680J50
	C408	CEANP100M16
	C402	CEANP4R7M35
	C435	CEASR33M50
	C320 - C322,C358,C366,	CEAS010M50
	C424 - C426,C434,C437	
	C438,C457	
	C344,C349,C350,C383,C385,C393,C422,C427	CEAS100M50
	C351,C363,C391,C412,C418,C429,C443,C446	CEAS101M10
	C373,C378,C440,C441	CEAS101M18
	C306,C312 - C314	CEAS102M10
	C444,C445,C451 - C454	CEAS2R2M50
	C430,C467	CEAS220M16
	C447 - C450,C466,C468,C469	CEAS4R7M50
	C302,C303,C305,C307 - C311,C315 - C319,C323,C324,C359,C364,C368,C370,C384,C403,C415	CEAS470M16
	C421	CEJA100M18
	C417	CEAS471M10
	C401	CFTXA103J50
	C404,C407,C433	CFTXA104J50
	C459,C460	CFTXA183J50
	C432,C439	CFTXA333J50
	C413,C414	CFTXA823J50
	C369,C394	CGMYX103M18
	C376,C411,C419	CKCYB103K50
	C347	CKCYB472K50
	C372	CKCYX104M25
	C416,C471	CKDYB103K50
	C436	CKMYB471K50
	C470	CKDYX223M25
	C431	CQMA472K50
	C406,C409,C458	CQMA582K50
	C423,C428	CQMA682K50
	C405,C410	CQSA581J50
	C377	CQSA821J50

RESISTORS

Mark	Symbol & Description	Part No.
	VR421 Variable resistor (100kΩ)	ACS1020
	VR422 Semi-fixed resistor (22kΩ)	VRT88VS223
	Other resistors	RD1/BPM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	1P Pin jack	AKB1010
	1P Pin jack	AKB1011
	3P Pin jack	AKB1050
	8P Pin jack	AKB1058
	2P Mini jack	AKN1006
	5P DIN socket	AKP-081
	X401 Ceramic resonator(3.27MHz)	ASS1016
	X391 Ceramic resonator(4.19MHz)	ASS1022

Tuner assembly (AWZ1966)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC751	AN7470P
★★	IC731	LA1285S
★★	IC771	LM7001
★★	Q773,Q775	RN2201
★★	Q783	2SA1048
★★	Q772	2SC1740SLN
★★	Q751,Q761,Q762,Q774	2SC2458
★★	Q703,Q721	2SC2668
★★	Q702	2SC2786
★★	Q704,Q705	2SK181
★★	Q701	2SK241
★★	Q771	2SK246
★	D771,D772	SVC321C2 - SP
★	D731 - D734,D751	1SS252
★	D701 - D703	1SV147

COILS & TRANSFORMERS

Mark	Symbol & Description	Part No.
★	T771 AM antenne transformer	ATB-085
★	L771 AM OSC coil	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-083
★	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-184
	F731 AM Ceramic filter	ATF-208
	L703,L704,L732,L733,L772 Axial inductor (2.2μH)	LAU2R2M
	L731 Inductor (4.7M)	LTA472J

CAPACITORS

Mark	Symbol & Description	Part No.
	TC771,TC772 Ceramic trimmer	ACM-015
	C708	CCDCH010C50
	C708	CCDCH020C50
	C701,C704,C705	CCDRH330J50
	C702	CCDRH390J50

Mark	Symbol & Description	Part No.
C744		CCDSL221J50
C716		CCDTH180J50
C774		CCMCH070D50
C715		CCMCH080D50
C713,C781,C782		CCMCH150J50
C714		CCMCH330J50
C709		CCMSL101J50
C765		CCMSL121J50
C731		CCMSL470J50
C752		CEANP100M16
C757		CEASR22M50
C778		CEASR47M50
C742		CEASOR1M50
C743		CEAS010M50
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,C780		CQMA102J50
C767,C768		CQMA561K50
C775		CQSA431J50
C754		CQSA471J50
RESISTORS		
Mark	Symbol & Description	Part No.
	VR752 Semi - fixed resistor	VRTB6VS224
	VR751 Semi - fixed resistor	VRTB6VS472
	R752	RN1/4PC1502F
	Other resistors	RD1/8PM□□□J
OTHERS		
Mark	Symbol & Description	Part No.
	4P Antenna terminal	AKA1003
	X771 Crystal resonator (7.2MHz)	ASS1006
	X731 Ceramic filter	ATF - 125

Front control A assembly (AWZ1967)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC801	PDG020 - A
★★	Q801	RN1203
★★	Q802 - Q811	2SC2458
★	D801 - D813	1SS252

SWITCHES

Mark	Symbol & Description	Part No.
★★	S801 - S820, S822, S825 - S830, S834 - S853, S855 - S863 Tact switch	ASG - 711

COIL & TRANSFORMER

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

CAPACITORS

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

RESISTORS

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

OTHERS

Mark	Symbol & Description	Part No.
	REMOCONE SENSOR assembly	AXX1005
	V801 Fluorescent indicator tube	AAV1054
	X801 Ceramic resonator (503kHz)	ASS1004

Headphone assembly

Mark	Symbol & Description	Part No.
	Headphone jack	AKN1002

Motor - volume assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC154	M5220L
★★	IC671	TA7291S

COIL & TRANSFORMER

Mark	Symbol & Description	Part No.
	F671 EMI filter	ATF1010

CAPACITOR

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

RESISTORS

Mark	Symbol & Description	Part No.
	VR671 Variable resistor with motor (100kΩ × 2 20kΩ × 3)	ACX1016
	Other resistors	RD1/8PM□□□J

Terminal assembly

Mark	Symbol & Description	Part No.
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No parts are supplied with the Terminal assembly.

Front control B assembly

SWITCHES

Mark	Symbol & Description	Part No.
★★	S823, S824, S831, S832, S833	ASG - 711

Meter amp assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC631 - IC633	M5218LF
★★	Q631 - Q635	2SC2458
★	D641 - D645	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

Rear assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC601, IC602	μPC1270H
★★	Q601, Q602	2SC2458

CAPACITORS

Mark	Symbol & Description	Part No.
	C607, C608	CCMSL150J50
	C615, C616	CEAS100M50
	C605, C606, C609, C610	CEAS101M10
	C601, C602	CEAS2R2M50
	C611, C612	CFTXA333J50

	C603, C604	CKMYB102K50
	C617, C618	CKMYB471K50

RESISTORS

Mark	Symbol & Description	Part No.
	R619, R620	ACN - 131
	Other resistors	RD1/8PM□□□J

Vol IND assembly

SEMICONDUCTOR

Mark	Symbol & Description	Part No.
★	D761	AEL1053

OTHER

Mark	Symbol & Description	Part No.
	Terminal strip	AKF1006

7. ADJUSTMENTS

7.1 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 AUT/MANUAL 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. Check TP-VT (8.7 ^{+2.5V} - 2.0V) of tuner assembly.
2	No signal		108MHz	—	
3	98MHz	20~30dB	98MHz	T701, L702, T702	Set the output from TP-SIGNAL of assembly to maximum level.
4	98MHz	60dB	98MHz	T732	Adjust voltage across pins 28 and 29 of assembly to T meter center.
5	98MHz	80dB	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 78.0kHz (± 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	80dB	98MHz	VR752	Maximize separation.
	Stereo modulation*				
10	98MHz	10dB	98MHz	—	Confirm that TUNED IND and STEREO IND are extinguished.
	Stereo modulation*				

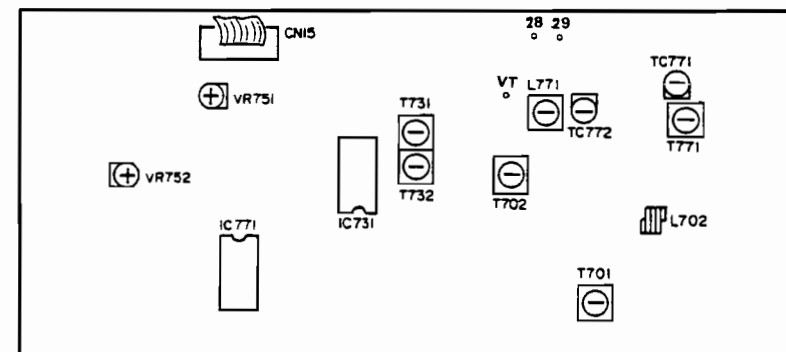
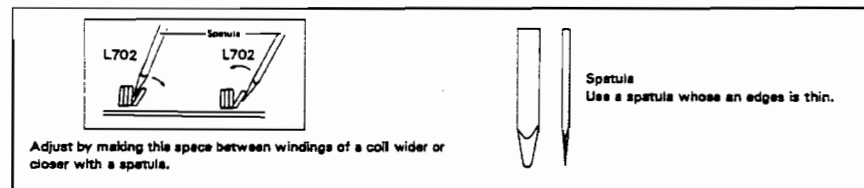
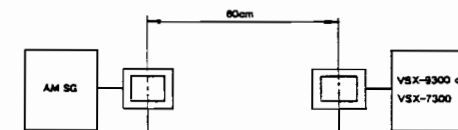
* Stereo modulation: Main 1kHz L+R ± 88.25kHz dev. Pilot 19kHz ± 6.75kHz dev.

AM (MW) Tuner section

- Connect loop antenna to the AM signal generator (AM SG) and connect the LOOP antenna (of the set) to AM ANTENNA 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 (± 0.05V)
2	No signal		1700kHz	TC772	Set TP-VT of tuner assembly to 10.0V (± 0.1V)
3	Repeat steps 1 and 2 until both specification ratings are satisfied.				
4	800kHz	40dB	800kHz	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	80dB	1000kHz		Confirm that TUNED IND becomes lit.

- The distance between AM SG side loop antenna A and the receiver side (VSX-9300 or VSX-7300) loop antenna B, that is, from the center of A side loop antenna to that of B side loop antenna should be 60cm.

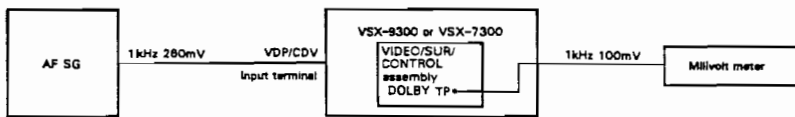


TUNER ASSEMBLY (AWZ1966)

7.2 SURROUND AMP SECTION

•SURROUND LEVEL ADJUSTMENT Preparation

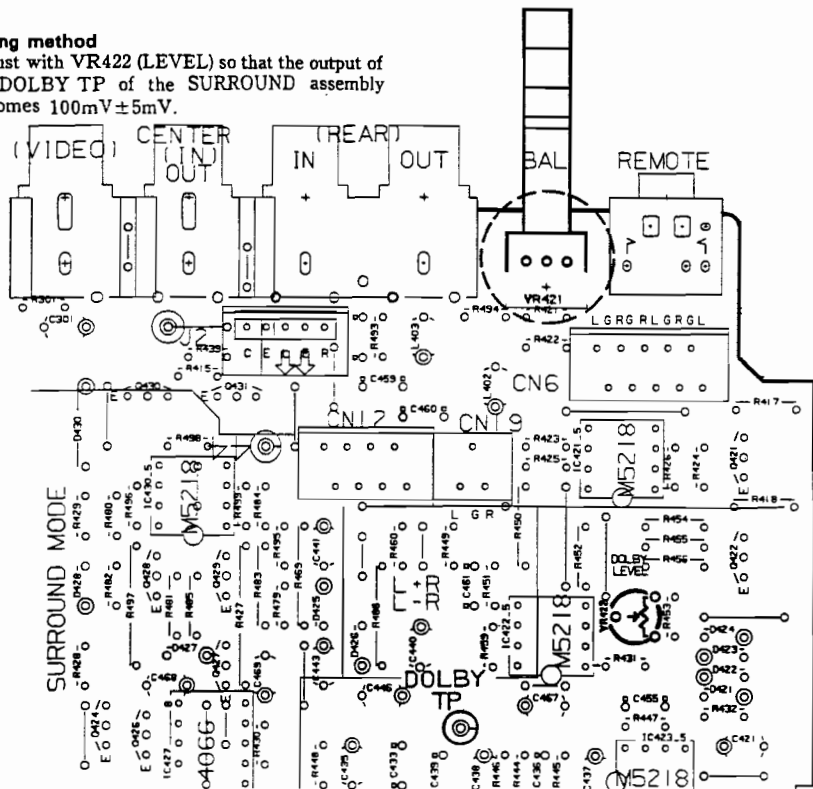
- 1) Adjust the SURROUND BALANCE VR (VR421) on the rear side to center clicking position.
 - 2) Set the SURROUND MODE to the DOLBY SURROUND (VSX-7300 type)
 - 3) Input sine wave signal of 1kHz, 260mV to the VDP/CDV input. Lch (or Rch) only. (Be sure that the small signal assembly is operating normally.)
- * Set the SURROUND MODE to the STADIUM (VSX-9300 type)



Connection diagram

Adjusting method

- 1) Adjust with VR422 (LEVEL) so that the output of TP DOLBY TP of the SURROUND assembly becomes 100mV ± 5mV.

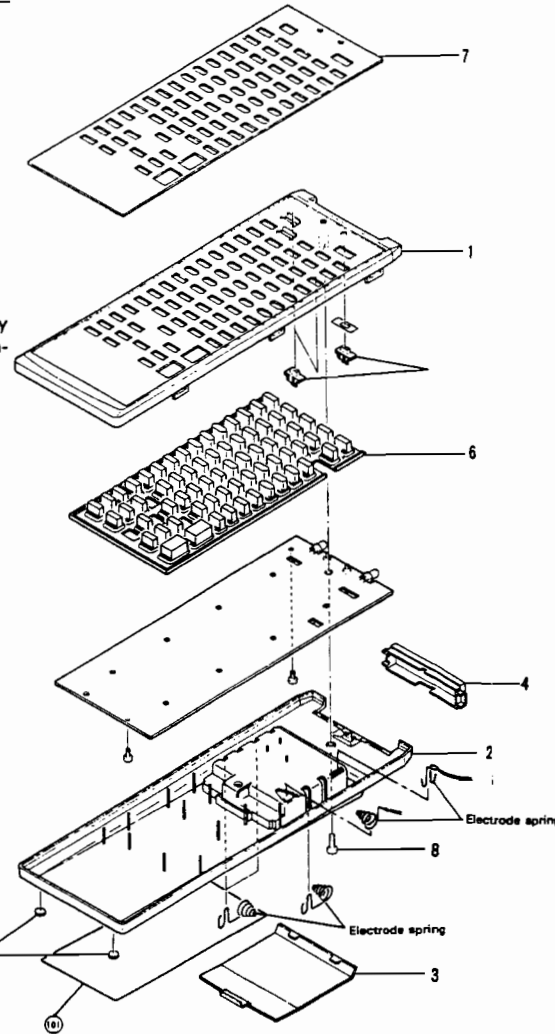


8. REMOTE CONTROL UNIT (AXD1055)

8.1 EXPLODED VIEWS AND PARTS LIST

PARTS LIST OF EXPLODED VIEWS

Mark	No.	Parts No.	Description
	1	AZH1033	Case (A)
	2	AZH1034	Case (B)
	3	AZH1035	Case (C)
	4	AZN1400	Filter
	5	AZA1086	Rubber switch
	6	AZS1042	Knob (AUDIO/VIDEO /AUX, USE/LEARN, DAT/TAPE)
	7	AZA1123	Name plate
	8	AZB1124	Screw
	9	AZN1401	Foot
	101		Rear name plate



※ When replacing the case No.2 (B) (AZH1034) by a new one, remove all electrode springs and install them into the new case (B).

8.2 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%).

560 Ω	56 $\times 10^1$	561	.....	RD1/4PS	\square	\square	\square	J
47k Ω	47 $\times 10^3$	473	.....	RD1/4PS	\square	\square	\square	J
0.5 Ω	0R5	.....	.....	RN2H	\square	\square	\square	K
1 Ω	010	.....	.....	RS1P	\square	\square	\square	K
 - Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	562 $\times 10^1$	562J	RN1/4SR	\square	\square	\square	F
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SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC01	PD5088 - A
★★	IC02	AZC1045
★★	IC03	AZC1048
★★	IC04	AZC1047
★★	IC05	AZC1048
★★	Q01, Q02	AZC1050
★★	Q03, Q04	AZC1051
★★	Q05	AZC1052
★	D01, D02, D07 - D14	AZC1056
★	D03 - D06	AZC1049
★	PHD01	AZC1055
★	LED01, LED02	AZC1054
★	IED02, IED02	AZC1053

SWITCH

Mark	Symbol & Description	Part No.
★★	S01 Side switch (AUDIO/VIDEO/AUX)	AZC1079
★★	S02, S03 Side switch (USE/LEARN, DAT/TAPE)	AZC1080
★★	S04 Tact switch (RESET)	AZC1081

CAPACITORS

Mark	Symbol & Description	Part No.
	C01 (200P)	AZC1058
	C02 (33P)	AZC1059
	C03, C04 (0.001 μ F)	AZC1082
	C05, C06 (20P)	AZC1080
	C07 Electrolytic capacitor (4.7/6V)	CEAS4R7M6
	C08 (0.01)	AZC1081
	C09 Electrolytic capacitor (100/6V)	CEAS101M6
	C10 Electrolytic capacitor (100/6V)	CEAS101M6
	C11 (0.01)	AZC1083

RESISTORS

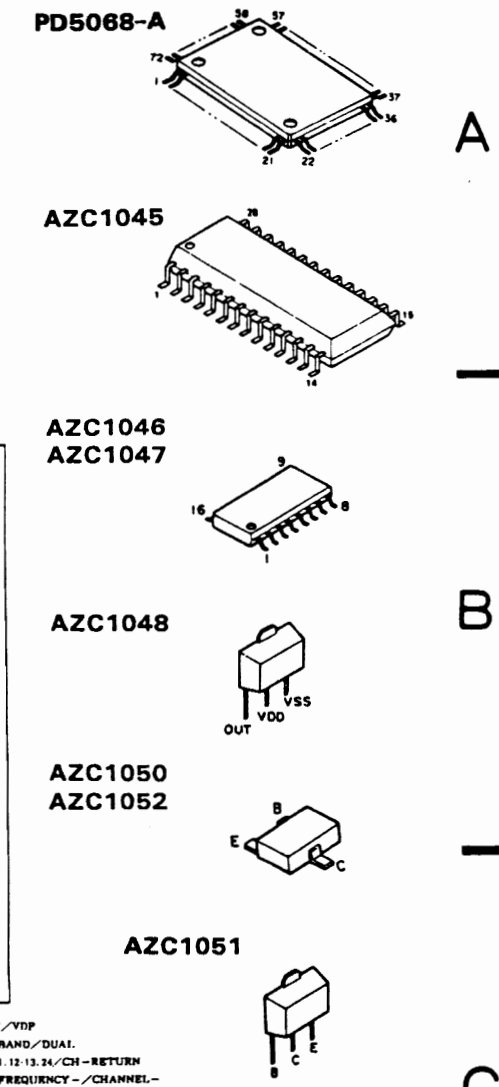
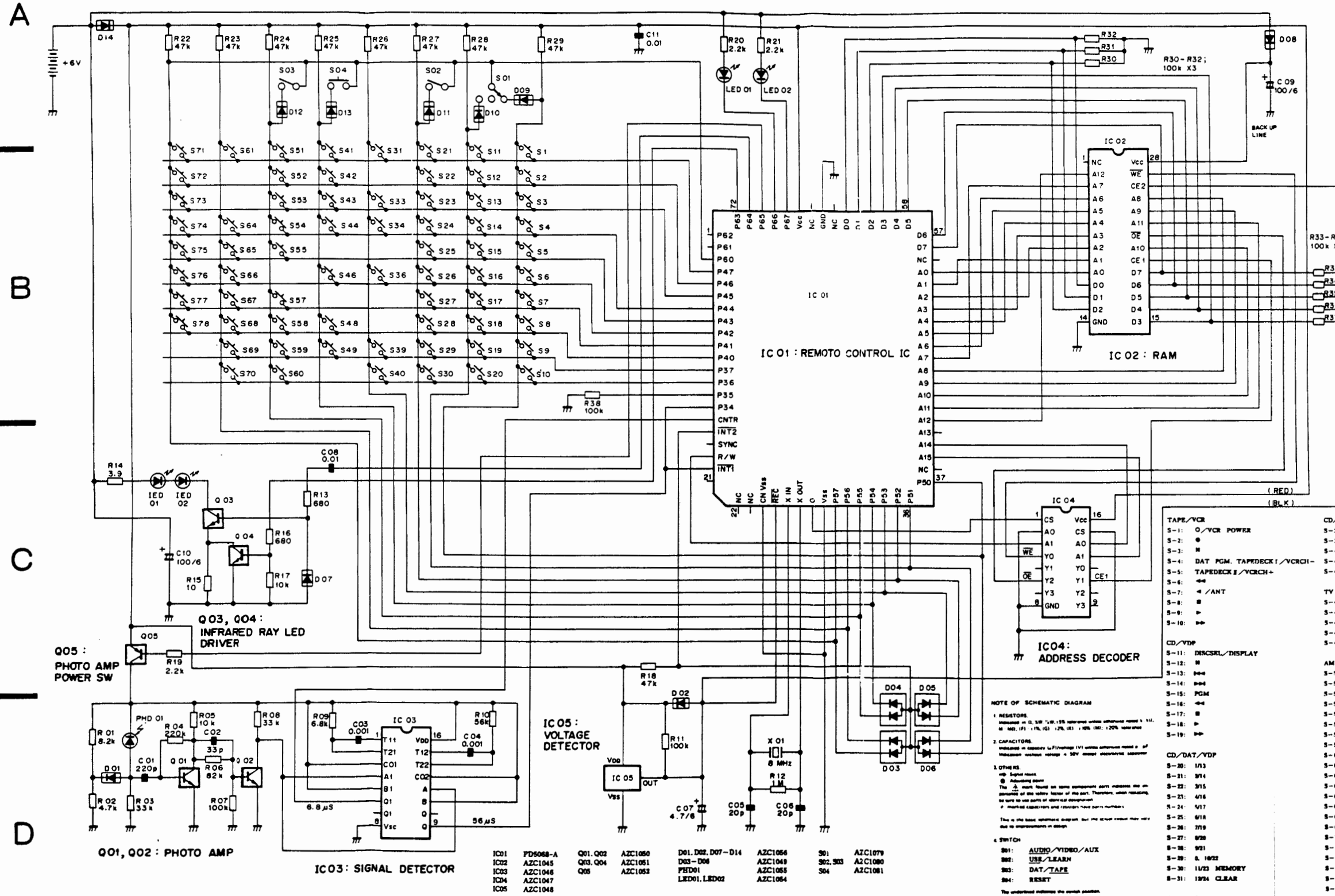
Mark	Symbol & Description	Part No.
	R01 (8.2K)	AZC1084
	R02 (4.7K)	AZC1085
	R03, R08 (33K)	AZC1086
	R04 (220K)	AZC1087
	R05, R17, R39 (10K)	AZC1088
	R06 (82K)	AZC1089
	R07, R11, R30 - R38 (100K)	AZC1073
	R09 (8.8K)	AZC1070
	R10 (56K)	AZC1071
	R12 (1M)	AZC1072
	R13, R16 (880 Ω)	AZC1075
	R14 (3.9 Ω)	AZC1078
	R15 (10 Ω)	AZC1076
	R18, R22 - R29 (47K)	AZC1077
	R19 - R21 (2.2K)	AZC1074

OTHERS

Mark	Symbol & Description	Part No.
	X1 Resonator (8MHz)	AZC1057

8.3 SCHEMATIC DIAGRAM

External Appearance of Transistors and ICs.



NOTE OF SCHEMATIC DIAGRAM

1. RESISTORS:
Indicated in Ω, kΩ, MΩ, unless otherwise noted.

2. CAPACITORS:
Indicated in pF, μF, unless otherwise noted.

3. OTHERS:
X: Crystal
LED: Light emitting diode
S: Switch

4. SWITCH:
S01: AUDIO/VIDEO/AUX
S02: USE/LEARN
S03: DAT/TAPE
S04: RESET

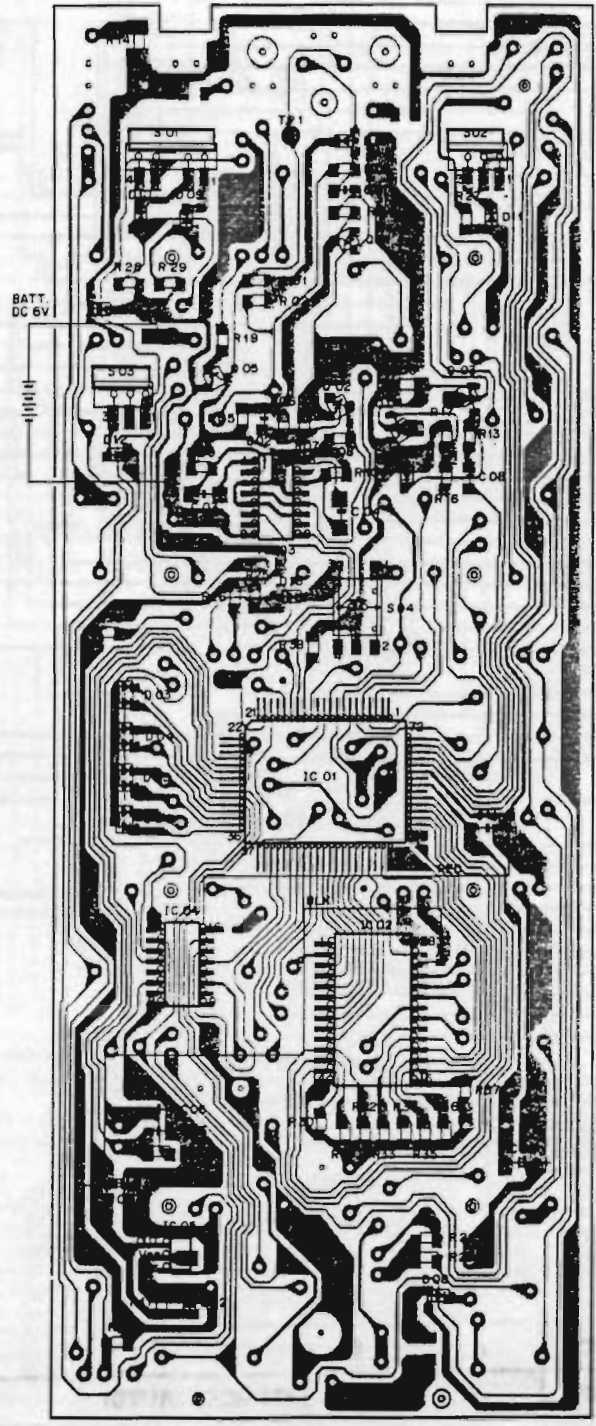
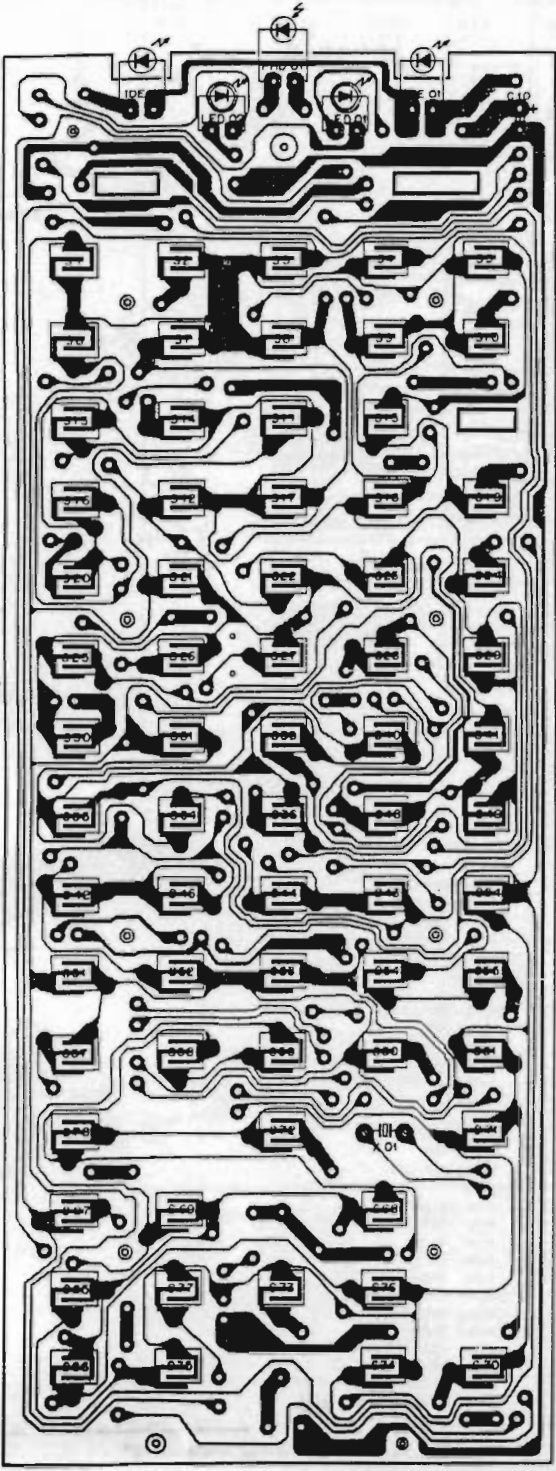
The symbol indicates the switch position.

TAPE/VCR	CD/DAT/VDP
S-1: O/VCR POWER	S-36: BAND/DUAL
S-2: M	S-39: 1, 12, 13, 24/CH-RETURN
S-3: M	S-40: FREQUENCY-/CHANNEL-
S-4: DAT PGM. TAPEDECK I/VCRCH-	S-41: FREQUENCY+/CHANNEL+
S-5: TAPEDECK I/VCRCH+	S-42: TV-POWER
S-6: ←	
S-7: ←/ANT	TV
S-8: M	S-43: TV
S-9: M	S-44: VDP
S-10: M	S-45: VCR
	S-46: TV-VOL-
	S-49: TV-VOL+
CD/VDP	AMP
S-11: DISCSKL/DISPLAY	S-51: VCR1
S-12: M	S-52: VCR2
S-13: M	S-53: VDP/CDV
S-14: M	S-54: TV
S-15: PGM	S-55: V. SEL
S-16: M	S-57: DAT/TAPE1
S-17: M	S-58: TAPE2
S-18: M	S-59: CD
S-19: M	S-60: TUNER
CD/DAT/VDP	S-61: PHONO
S-20: I/13	S-64: DISPLAY
S-21: S/14	S-65: SLEEP
S-22: S/15	S-66: AMP POWER
S-23: S/16	S-67: MUTING
S-24: S/17	S-68: ←(SURROUND)
S-25: S/18	S-69: →(SURROUND)
S-26: S/19	S-70: MASTER VOLUME-
S-27: S/20	S-71: MASTER VOLUME+
S-28: S/21	S-72: ↓(SURROUND)
S-29: S/22	S-73: ↓(SURROUND)
S-30: S/23	S-74: SURROUND MODE
S-31: S/24	S-75: DELAY TIME
	S-76: REAR R
	S-77: REAR L
	S-78: REAR L
	S-79: ACOUSTIC
PHONO/VDP	
S-32: S/25	
S-34: S/26	

8.4 P.C.BOARD PATTERNS

NOTE :

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



9. IC INFORMATION

PDG021

Terminal Functions

Terminal No.	Terminal name	I/O	Conditions	Terminal status	Remarks
1	WP	I	When requested	H	Sets the model to "H" when receiving order from IC801 (PDG020)
2	RMCEC	I	(Set to "H" in advance.)	H	Switches the model NOW... "H" NEXT... "L"
3	CLK	O	When data is output		Serial clock output
4	DATA	O	When data is output		Serial data output
5	SOA	I	When VSX-9300S is used	L	When the terminal for model selection is VSX-7300 series, sets the model to "H"
6	SI	I	VSX-9300S and VSX-7300 series	L	Switches the tuner mode (J/Ex)
7	RF MODU	O	TV ANT... "VIDEO"	H	Switches the RF modulator power supply ON
8	ST	O	When data transfer is completed (BALANCE or TONE)		"STROB" output for IC167 (TC9154AP) and IC168 (TC9184P)
9	CE	O	When data transfer is completed		"STROB" output for IC101 (TC9164N)
10	SS	O	SIMULATED STEREO... "ON"	L	
11	POWER	O	POWER "ON"	H	POWER RELAY (RY-501) ... "ON"
12	REAR	O	REAR output relay is switched "ON"	H	REAR SP RELAY (RY-505) ... "ON"
13	SP-A	O	FRONT SP-A relay is switched "ON"	H	FRONT SP RELAY (RY-503) ... "ON"
14	SP-B	O	FRONT SP-B relay is switched "ON"	H	FRONT SP RELAY (RY-504) ... "ON"
15	D ₀	I/O	When READY is set to "L"		Data terminal when transferring data mutually with IC801 (PDG020)
16	D ₁				
17	D ₂				
18	D ₃				
19	D ₄				
20	D ₅				
21	D ₆				
22	D ₇				
23	READY	I/O	When REQ is set to "H"	L	The mode is set to "L" until finishing to read the data
24	ACT	I/O	When data transfer is completed		REQ will become "L"
25	REQ	O	During data transfer	H	Processing to send data
26	TUNED	I	When a broadcast is received		TUNER STOP signal input
27	A ₀	I	Channel step AM9kHz FM50kHz	H	Channel step AM10kHz FM100kHz ... "L"
28	A ₁	O			Not used
29	A ₂	O	FM MODE (AUTO)	L	FM MODE (MONO) ... "H"
30	A ₃	O	During data transfer	H	"CE" output for IC771 (LM7001)
31	NC	—			Not used

Terminal No.	Terminal name	I/O	Conditions	Terminal status	Remarks												
32	Vas		GND														
33	G ₀	O	When data transfer is completed		"STROB" output for IC425 (IC9154AP)												
34	G ₁	O	DELAY TIME 15ms	H	DELAY TIME CONTROL												
35	G ₂	O	DELAY TIME 20ms	H													
36	G ₃	O	DELAY TIME 30ms	H													
37	H ₀	O	VCR2, VDP/CDV	L	VIDEO INPUT SELECTOR												
38	H ₁	O	SIMULATED	L	SURROUND MODE												
39	H ₂	O	STADIUM	L													
40	H ₃	O	When data transfer is completed		"STROB" output for IC1130 (CXD1067P)												
41	I ₀	O	During TUNER output MUTE	H													
42	I ₁	O	VCR2, VDP/CDV	L	VIDEO INPUT SELECTOR												
43	I ₂	O	VR IND (D761) light up	H													
44	I ₃	O	When data transfer is completed		"STROB" output IC101, IC102 (TC9164N) and IC103 (TC9162N)												
45	UP	O	When VR MOTOR is operated		<table border="1"> <tr> <td>V2</td> <td>(C81)</td> <td>40Pin</td> <td>40Pin</td> </tr> <tr> <td>VR UP</td> <td>B</td> <td>L</td> <td></td> </tr> <tr> <td>VR DOWN</td> <td>L</td> <td>H</td> <td></td> </tr> </table>	V2	(C81)	40Pin	40Pin	VR UP	B	L		VR DOWN	L	H	
V2	(C81)					40Pin	40Pin										
VR UP	B	L															
VR DOWN	L	H															
46	DOWN																
47	J ₂	O	VIDEO signal control		Refer to Image diagram (VIDEO)												
48	J ₃																
49	K ₀																
50	K ₁																
51	K ₂																
52	K ₃																
53	L ₀																
54	L ₁																
55	L ₂																
56	L ₃																
57	V _L	—			Set GND in advance												
58	INT	I			Set GND in advance												
59	XTAL	—	Connect ceramic resonator of 4.19MHz														
60	EXTAL	I															
61	RST	I	When Power is switched "ON"														
62	Y ₀	O	REC ENHANCER "ON"	H													
63	Y ₁	O			Not used (open)												
64	V _{DD}				+5V												

PDG020
Terminal Functions

Terminal No.	Terminal name	I/O	Conditions	Terminal status	Remarks
1	S ₄	O	Power "ON" or "STAND-BY"		Control of FL indicator segments (S ₄ to S ₂₁)
2	S ₅				
3	S ₆				
4	S ₇				
5	S ₈				
6	S ₉				
7	S ₁₀				
8	S ₁₁				
9	S ₁₂				
10	S ₁₃				
11	S ₁₄				
12	S ₁₅				
13	S ₁₆				
14	S ₁₇				
15	S ₁₈				
16	S ₁₉				
17	S ₂₀				
18	S ₂₁				
19	T ₉	O	Power "ON" or "STAND-BY"		Control of FL indicator grid (T ₀ -T ₉)
20	T ₈				
21	T ₇				
22	T ₆				
23	T ₅				
24	T ₄				
25	T ₃				
26	T ₂				
27	T ₁				
28	T ₀				
29	INT	I	GND		Not used
30	XTAL	-	Cermic oscillator (4.19MHz) connection		

Terminal No.	Terminal name	I/O	Conditions	Terminal status	Remarks
31	EXTAL	I	Ceramic resonator (4.19MHz)		
32	RST	I	Power "OFF" to "ON"	L	RESET
33	NC	-	(Open)	-	Not used
34	V _{DD}		Power "ON" or "STAND-BY"	5V	Pin for application of 5V power
35	AD0	I	Analog voltage input for driving level meter		Level indicator control
36	AD1				
37	AD2				
38	AD3				
39	AD4				
40	B ₁	I	During FM stereo reception	L	
41	B ₂	I	When tuner section is receiving in auto tuning mode		Reception at frequency when goes to "L" during searching in auto tuning mode
42	B ₃	I	Memory number 30 stations	H	Number of memory channels for tuner sections is set to 30 or 10 stations
			Memory number 10 stations	L	
43	NC	-	(Open)	-	Not used
44	SC	O	Not used		CLOCK output
45	SO	O			DATA output
46	SI	I	GND	L	"SURROUND" can not be turned ON/OFF
			+5V	H	
47	READY	I/O	When REQ is set to "H"	L	The mode is set to "L" until finishing to read the data
48	ACT	I/O	When data transfer is completed		REQ will become "L"
49	REQ OUT	O	During data transfer	H	Processing to send data
50	REQ IN	I	When requested	H	Sets the mode to "H" when receiving order from IC391 (PDG021).
51	F ₀	I	During control key operation		Key matrix input
52	F ₁				
53	F ₂				
54	F ₃				
55	E ₀				
56	E ₁				
57	E ₂				
58	E ₃				
59	PY0	O	When the IC391 (PDG021) is reset		
60	PWM	O	(Open)		Not used

Terminal No.	Terminal name	I/O	Conditions	Terminal status	Remarks	
61	WP	I	AC pulse (50/60Hz) input		Back-up state when no AC pulse input	
62	RMC	I	During remote control reception		Input terminal for remote control signal	
63	D ₀	I/O	When READY is set to "L"		Data terminal when transferring data mutually with IC391 (PDG021)	
64	D ₁					
65	D ₂					
66	D ₃					
67	D ₄					
68	D ₅					
69	D ₆					
70	D ₇					
71	V _{SS}		GND	—		
72	TX	—	(Open)	—	Not used	
73	NC	—	(Open)	—	Not used	
74	TEX	I	5V		Application of STAND-BY power (5V)	
75	V _{RFF}		Back-up		Application of STAND-BY power (5V)	
76	V _{FDP}		Power "ON"	-30V	Power supply for FL indicator control	
77	S ₀	O	Power "ON" or "STAND-BY"		Control of FL indicator segments (S ₀ to S ₃)	S ₀
78	S ₁					S ₁
79	S ₂					S ₂
80	S ₃					S ₃

10. CIRCUIT DESCRIPTIONS

• DOLBY SURROUND PRO-LOGIC

In a conventional Dolby surround circuit, FRONT signals (LEFT and RIGHT) are output only by adjusting both BALANCE as shown in Figure 10-1. Therefore, only REAR signal (SURROUND) performed DOLBY SURROUND processing.

A detailed sound field was not easy to reproduce, because the L (R) signal passes the SURROUND circuit.

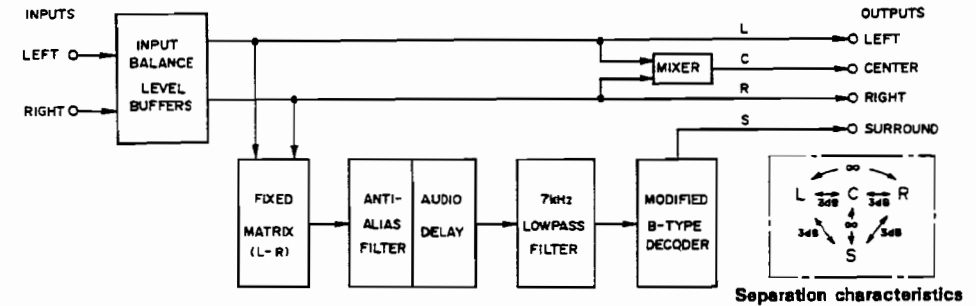


Figure 10-1. Block diagram of conventional Dolby surround circuit

The DOLBY SURROUND PRO-LOGIC controls the FRONT and REAR signals together by adding ADAPTIVE MATRIX and CENTER MODE CONTROL CIRCUIT to the conventional Dolby surround circuit as shown in Figure 10-2.

The ADAPTIVE MATRIX circuit improved separation between LEFT, CENTER, RIGHT and SURROUND.

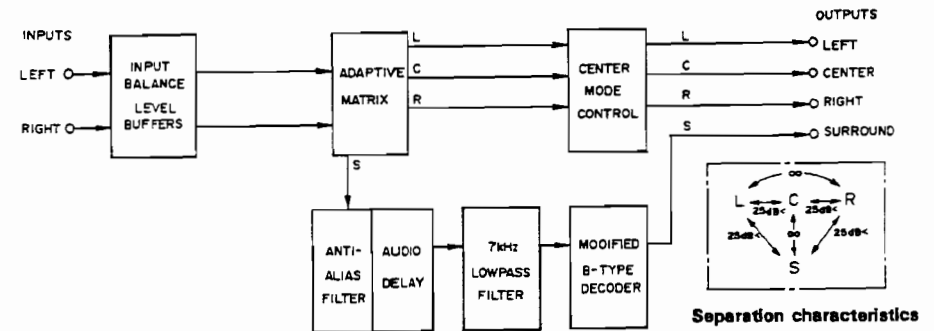


Figure 10-2. Block diagram of DOLBY SURROUND PRO-LOGIC circuit

• ADAPTIVE MATRIX

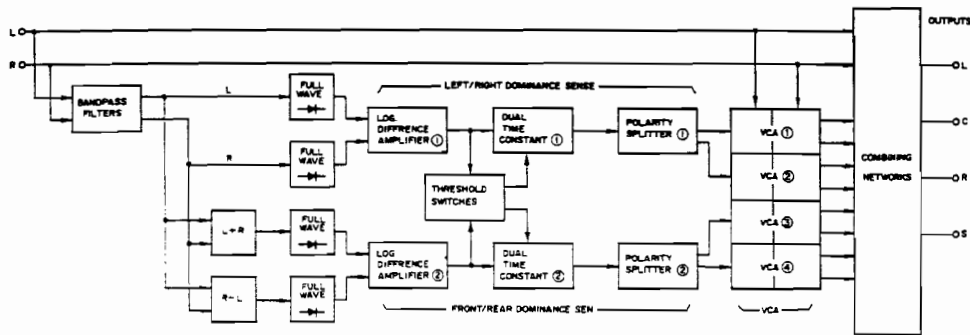


Figure 10-3. Block diagram of adaptive matrix

The configuration is as shown in Figure 10-3.

This circuit works to convert 2 CH AUDIO signal (L CH and R CH) which has been processed by Dolby encoding into a 4 CH signal (L, R and Center CHs of FRONT and Surround CH of REAR).

1. Picks up only signals from 150Hz to 5kHz from the band-pass filter.
2. Performs full-wave rectification for the sound signal picked up from the band-pass filter with the full-wave rectifier.
3. The signals that undergo full-wave rectification are processed by logarithmic compression and comparison with the LOG-difference amplifier.
4. Observes DC voltage of ① and ② of the LOG-difference amplifier output at the points ③ and ④ of the threshold switch (see Figure 10-4). When the DC voltage value becomes 7.8V and larger or 7.0V and less, ⑤ of the threshold switch will be set to "L" (approx. 0.6V) and ⑥ will be set to "H" (approx. 14V). The threshold voltage 7.8V and 7.0V which set ⑤ to "L" and ⑥ to "H" are decided by the reference voltage indicated in ⑦ and ⑧ of Figure 10-4.
5. The dual time-constant switches the variable speed of output voltage of the LOG-difference amplifier which becomes the control voltage of VCA. This is performed for natural reproduction of sound field.

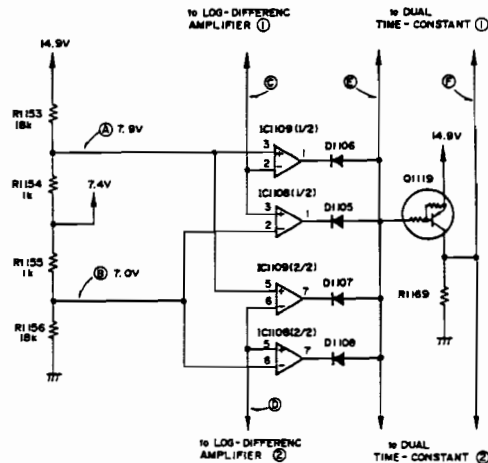


Figure 10-4. Threshold switch

Gain of VCA (dB)

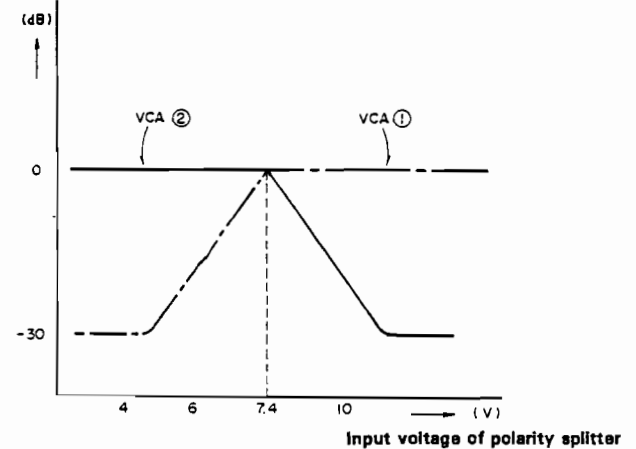


Figure 10-5. VCA (1) and (2) characteristics

6. The polarity splitter controls VCA ① and VCA ② to achieve opposite characteristics as shown in Figure 10-5. The voltage (7.4V) where the gains of both VCA ① and VCA ② become 0dB indicates that at this point the voltage value is the same as the reference voltage (7.4V) which is output from Pin3 (COM terminal) of VCA.
7. Control the signal level to be input to the combining network for deciding respective CHs (L, R, Center and Surround CHs) level with VCA ① to VCA ④.
8. The combining network produces the output of respective CHs (L, R, Center and Surround CHs) by adding or subtracting the signals passed through VCA ① to VCA ④ and the signals input directly to the combining network.
9. Selects the positions of WIDE, NORMAL and PHANTOM by the center mode control. In NORMAL position, the signals being cut the range than 110Hz are output to the Center CH through the high-pass filter (HPF) provided at IC1124-1/2 (M5218).

Simultaneously, the frequencies lower than 110Hz are picked up from the low-pass filter (LPF) provided at IC1124-1/2 (M5218) and mixed into FRONT L and R CHs. In PHANTOM position, the signals for Center CH are mixed into FRONT L and R CHs in a form specifying the level to -3dB. In WIDE position, the signals are output to the Center CH output as they are.

10. NOISE SEQUENCER

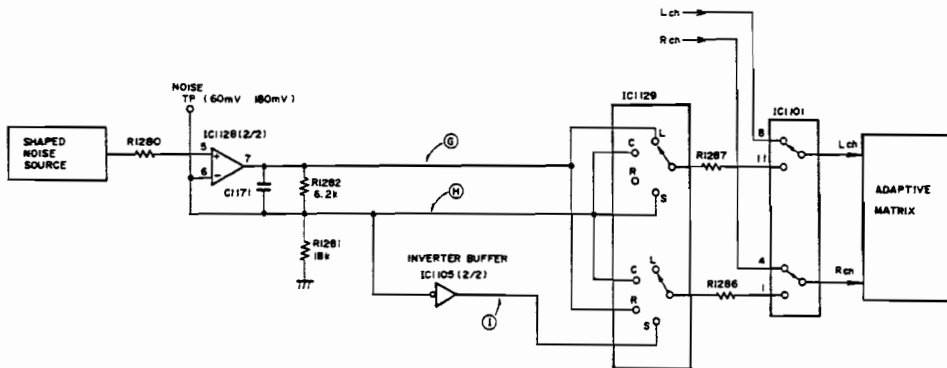


Figure 10-6. Block diagram of NOISE SEQUENCER

The NOISE TP terminal has a noise output from 60mV to 180mV. In Figure 10-6, when setting the level of C to 0dB, the level of H will become -3dB. The noise output at point I is -3dB, same as at point H, however, with reverse phase than H. The output is switched in intervals of approx. 2seconds in sequence of L → C → R → S by IC129 (TC4052). This operation will be repeated while the test tone switch is ON.

11. FOR VSX-7300S/KUC, SD/G AND VSX-7300/KUC TYPES.

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.
- For your parts Stock Control, the fast moving items are indicated with the marks $\star\star$ and \star .
- $\star\star$ GENERALLY MOVES FASTER THAN \star
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by "C" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

CONTRAST OF MISCELLANEOUS PARTS.

The VSX-7300S/KUC SD/G and VSX-7300/KUC types are the same as the VSX-9300S/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.				Remarks
		VSX-9300S/ KUC type	VSX-7300S/ KUC type	VSX-7300S/ SD/G type	VSX-7300/ KUC type	
	Pro logic assembly	AWX1016	.....	.....	.....
	AF assembly	AWZ1961	AWZ1971	AWZ1971	AWZ1971	
	VIDEO/SUR/CONTROL assembly	AWZ1965	AWZ1973	AWZ1973	AWZ1973	
	Tuner assembly	AWZ1966	AWZ1966	AWZ1966	AWZ1966	
	Front control A assembly	AWZ1967	AWZ1976	AWZ1976	AWZ1976	
	Headphone assembly	Non supply	Non supply	Non supply	Non supply	
	Motor-volume assembly	Non supply	Non supply	Non supply	Non supply	
	Terminal assembly	Non supply	Non supply	Non supply	Non supply	
	Front control B assembly	Non supply	Non supply	Non supply	Non supply	
	Meter amp assembly	Non supply	Non supply	Non supply	Non supply	
	Rear amp assembly	Non supply	Non supply	Non supply	Non supply	
	Vol IND assembly	Non supply	Non supply	Non supply	Non supply	
Δ \star	Power transformer (AC120V,T1)	ATS1144	ATS1144	.....	ATS1144	
Δ \star	Power transformer (AC110V,120V-127V,220V,240V,T1)	.....	.....	ATS1145	.....
Δ $\star\star$	Fuse (10A/125V,FU1)	AEK-310	AEK-310	.....	AEK-310	
Δ $\star\star$	Fuse (6A/125V,FU1,FU2)	.....	.....	AEK-109	.....
Δ $\star\star$	Line voltage selector switch (AC110V,120V-127V,220V,240V,S3)	.....	.....	AKX-507	.....
Δ $\star\star$	Slide switch (S4)	.....	.....	ASH-004	.....
Δ $\star\star$	Line voltage selector switch (S2)	.....	.....	AKX1004	.....
Δ	Fuse holder	.....	.....	AKR-032	.....
	Power cord	ADG1031	ADG1031	ADG1015	ADG1031	
	Hinge knob (#1-#5)	AAD1394	AAD1406	AAD1406	AAD1406	
	Hinge knob (#6-#0)	AAD1395	AAD1406	AAD1406	AAD1406	
	Hinge knob (OFF,STADIUM, SIMULATED-SURROUND,DOLBY SURROUND)	AAD1396	AAD1397	AAD1397	AAD1397	

Mark	Symbol & Description	Part No.				Remarks
		VSX-9300S/ KUC type	VSX-7300S/ KUC type	VSX-7300S/ SD/G type	VSX-7300/ KUC type	
	Inulator assembly	AMR1434	AMR1350	AMR1350	AMR1350	
	Inulator assembly	AMR1435	AMR1353	AMR1353	AMR1353	
	Front panel	ANB1205	ANB1208	ANB1206	ANB1208	
	Packing case	AHD1437	AHD1440	AHD1439	AHD1438	
	Operating Instruction (English)	ARB1112	ARB1115	ARB1115	ARB1112	
	Operating Instruction (Spanish)	.....	.....	ARC1089	.....
	Screw	.....	.....	VMZ26P040FZK	.....
	Remote control unit	AXD1055	AXD1055	AXD1055	AXD1055	
	Spacer	.....	.....	AHB1006	.....
	Template	AAK1439	AAK1439	AAK1439	.....

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.
- For your parts Stock Control, the fast moving items are indicated with the marks ** and *.
** GENERALLY MOVES FASTER THAN *
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

AF assembly

The AF assembly (AWZ1971) is the same as the AF assembly (AWZ1961) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ1961 (VSX-9300S/KUC)	AWZ1971 (VSX-7300S/KUC,SD/G,VSX-7300/KUC)	
	C189	.....	CEAS100M25	
	R191,R192	.....	RD1/8PM223J	
	R193,R194,R198	.....	RD1/8PM102J	
	R195	.....	RD1/8PM273J	

VIDEO/SUR/CONTROL assembly

The VIDEO/SUR/CONTROL assembly (AWZ1973) is the same as the VIDEO/SUR/CONTROL assembly (AWZ1965) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ1965 (VSX-9300S/KUC)	AWZ1973 (VSX-7300S/KUC,SD/G,VSX-7300/KUC)	
	C444,C445	CEAS2R2M60	.....
	R458	RD1/8PM392J	.....
	R460	RD1/8PM102J	.....
	R515	RD1/8PM223J	.....

Front control A assembly

The Front control A assembly (AWZ1975) is the same as the Front control A assembly (AWZ1967) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ1967 (VSX-9300S/KUC)	AWZ1975 (VSX-7300S/KUC,SD/G,VSX-7300/KUC)	
★★	S855,S858	ASG-711	.....
	R834	.....	RA6S103J	

Motor-volume assembly

The Motor-volume assembly (VSX-7300S/KUC,SD/G,VSX-7300/KUC) are the same as the Motor-volume assembly (VSX-9300S/KUC) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		VSX-9300S/ KUC type	VSX-7300S/KUC, SD/G,VSX-7300/ KUC types	
★	VR671 Variable resistor with motor	ACX1018	ACX1015	

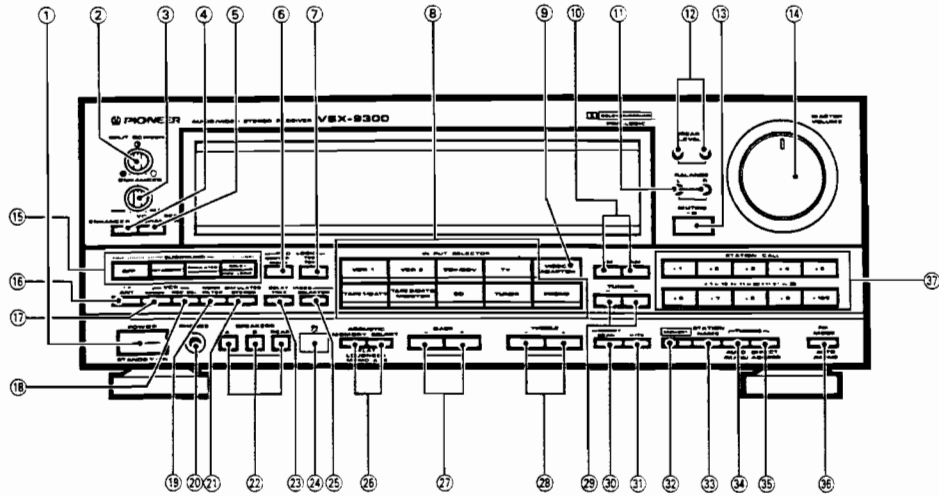
Meter amp assembly

The Meter amp assembly (VSX-7300S/KUC,SD/G,VSX-7300/KUC) are the same as the Meter assembly (VSX-9300S/KUC) with the exception of the following sections.

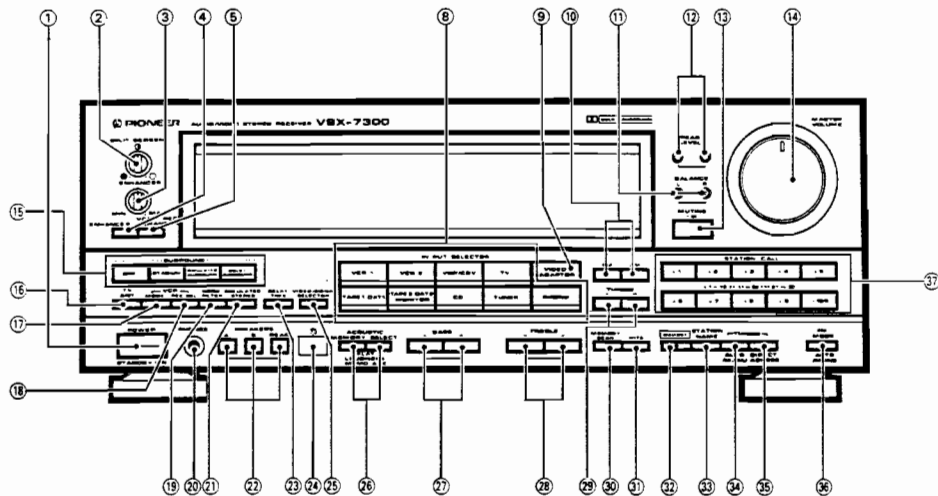
Mark	Symbol & Description	Part No.		Remarks
		VSX-9300S/ KUC type	VSX-7300S/KUC, SD/G,VSX-7300/ KUC types	
	C638	.....	CEAS010M50	
	R835	RD1/8PM884J	.....
	R661,R662	.....	RD1/8PM105J	
	R669	.....	RD1/8PM274J	

12. PANEL FACILITIES

(VSX-9300S) ⑥, ⑦... VSX-9300S only



(VSX-7300)



① POWER STANDBY/ON switch

When this switch is pressed, power is supplied to the unit. Press the switch again to turn power off

[Timer ON/OFF possible]

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

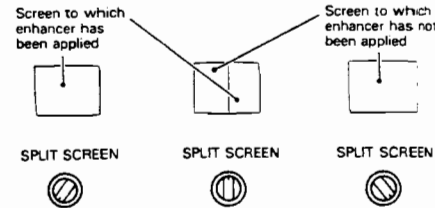
NOTE:

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

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.



NOTE:

This line is not output from the VCR (VCR1 and VCR2) 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.

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 (unenhanced) images.

⑤ VCR1 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 VCR2 REC OUT.

NOTE:

The VCR1 REC SELECTOR must be on for the VCR1 REC ENHANCER switch to operate.

⑥ PRO LOGIC CENTER MODE switch (VSX-9300S)

Switches between the four DOLBY SURROUND PRO LOGIC 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 before adjusting surround balance. Use a mono [AM radio, etc.] signal and adjust the surround balance control so that volume is minimized from the left, right and rear [surround] speakers.

NOTE:

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.

⑦ PRO LOGIC TEST TONE switch (VSX-9300S)

Only operates when the DOLBY SURROUND PRO LOGIC 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 the left, center, right and surround speaker 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:

Set the center speaker volume level using the amplifier used to drive the center speaker.

⑧ Audio/Video INPUT SELECTOR switches

VCR1: Press when performing playback on a VCR unit.

VCR2: Press when performing playback on a second 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 terminals.

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

TAPE 2/DAT 2 MONITOR: Press when performing playback on a second tape deck and when monitoring recording.

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

TUNER: Press when listening to radio broadcasts.

PHONO: Press when playing records on turntable.

⑨ 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 when this switch is set to ON.

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.

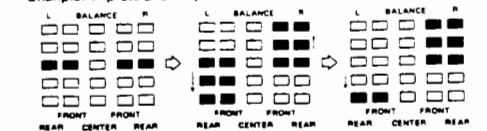
R: Press to decrease the sound on the left side.

Press L and R together to bring the volume balance back to center.

NOTE:

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

Example: If press and keep the "R" switch.



⑫ REAR LEVEL (-, +) switches

Operate only when the surround mode is on.

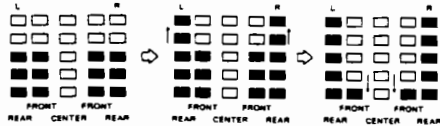
These switches are used to preset the sound level difference between the front and surround speakers. In this way, after presetting the difference, the overall volume of the front and surround rear speakers can be changed using the MASTER VOLUME control, while still maintaining the sound volume differential.

- : Surround rear speaker volume is reduced.

+ : Surround rear speaker volume is increased.

To reset press $-$ and $+$ together to restore front and surround to the default volume balance setting.

Example: If press and keep the "+" switch.



⑮ 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.

⑯ MASTER VOLUME control

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

⑰ 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 SURROUND PRO LOGIC (VSX-9300S)

DOLBY SURROUND (VSX-7300)

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

⑱ 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 when the receiver's power is off.

NOTE:

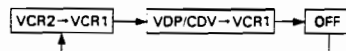
- When in the VIDEO mode, no sound will be produced from the TV set's speakers. Listen using the speakers connected to the receiver.
- Noise may be produced if the TV set's volume control is turned up. Turn down the set's volume control when listening.
- This switch functions only when the TV ANT selector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

⑲ VCR MODE switch

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

⑳ VCR1 REC SELECTOR 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 terminal.

㉑ VCR NOISE FILTER switch

If tape hiss is noticeable 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 panel.

NOTE:

- This switch can be used when either VCR1 or VCR2 function switches is selected.
- The effectiveness in reducing high-frequency hiss noise varies depending on the type of tape used, the recording level, and other conditions.

㉒ PHONES jack

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

㉓ 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:

This effect is not produced through the surround rear speakers.

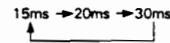
㉔ SPEAKER switches (A, B, REAR)

ON/OFF switches for the A, B and rear surround speaker systems. An indicator on the display section lights when any of these switches is set to ON.

㉕ DELAY TIME switch

Operates only when the surround mode is ON.

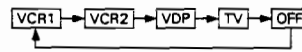
Switches the surround delay time in three steps, for DOLBY SURROUND PRO LOGIC (VSX-9300S) DOLBY SURROUND (VSX-7300), 20ms is standard.



㉖ Remote signal sensor

㉗ VIDEO SIGNAL SELECTOR switch

When or recording simulcast programs, the recorded image can be selected from among VCR1, VCR2, VDP and TV.



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

NOTE:

When using a VCR for sound recording only, follow the operating instructions of the VCR.

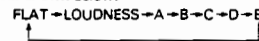
㉘ ACOUSTIC Switch

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 is used to preset the five acoustic memories (A-E).
- This switch is also used to recall previously set sound quality settings. Each time you press the switch, the sound quality setting advances in the order shown below.



FLAT: For flat (normal) frequency response.

LOUDNESS: Emphasizes the low- and high- frequency ranges. Produces a fuller sense of sound, particularly when listening at low volume.

A-E: Memorized acoustic memory settings.

Presetting the acoustic memory

- Adjust the sound quality as desired using the BASS and TREBLE control switches.
 - 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.

㉙ 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.

㉚ 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.

㉛ TUNING switches

- $+$: Performs tuning from the currently displayed station frequency in ascending frequency order.
- $-$: Performs tuning in order to descending frequencies.

㉜ 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.

㉝ 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 (see page 25), 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 within successive 1MHz ranges for stations which can be tuned in. 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.

㉞ 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 (see page 25).

㉟ STATION NAME switch

This switch is used when inputting station names (see page 25).

㊳ 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 tuning step. When pressed continuously, the receiver scans the broadcast frequencies continuously.

㊴ 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.

㊵ 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.

㊶ STATION CALL RANDOM 30 CH switches

- These switches are used to preset and recall desired broadcasting stations, FM AUTO/MONO mode and ACOUSTIC MEMORY mode. Station call operation example:

If you press the key:

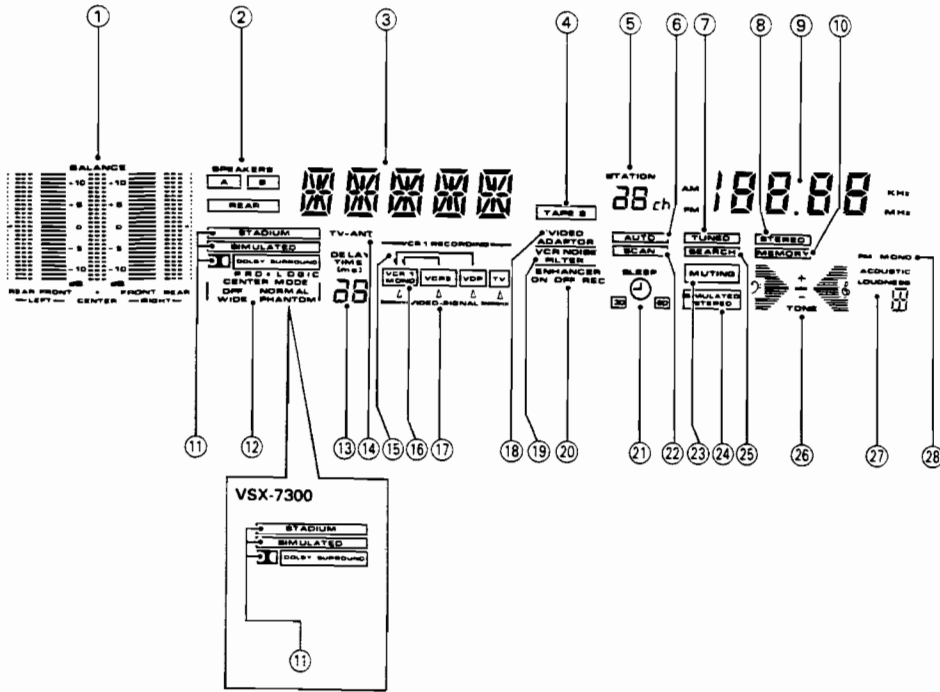
- One time - station 2 is selected.
- Two times - station 12 is selected.
- Three times - station 22 is selected.

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.

[DISPLAY SECTION]



[DISPLAY SECTION]

- ① **BALANCE/LEVEL meters**
- ② **SPEAKERS A, B, REAR indicators**
Shows which speaker system (or systems) are switched ON.
- ③ **Alphanumeric 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 FM MODE is auto stereo.
- 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 SURROUND PRO LOGIC CENTER MODE indicators (VSX-9300 only)**
- 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 **VCR1 RECORDING display**
Displays a "V" symbol to indicate the copy mode selected with the VCR1 REC SELECTOR switch.
- ⑯ **VCR1 MONO indicator**
- ⑰ **VIDEO SIGNAL SELECTOR indicators**
Shows the video component selected with the V-SIGNAL SELECTOR switch.
- ⑱ **VIDEO ADAPTOR indicator**
Lights when the VIDEO ADAPTOR switch is in the ON position.
- ⑲ **VCR NOISE FILTER indicator**
Lights when the VCR NOISE FILTER switch is in the ON position.
- 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 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 **STONE level meter**
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.

① **FM/AM ANTENNA terminals**

Use these antenna terminals for reception of normal FM and AM broadcasts.
• For details regarding antenna connection, see the section "Hints for Better Reception".

② **GND terminal**

Connect the turntable ground lead to this terminal.

③ **SURROUND BALANCE control (DOLBY SURROUND) (VSX-7300)**

Use to adjust the surround effect from the surround rear speakers. Normally leave in the center position. When inputting a monaural signal and front speakers are OFF position, adjust so that the surround rear output is minimum.

Set the front panel PRO LOGIC CENTER MODE switch to the OFF position. Then adjust balance so that you hear minimum volume from the other channels.

④ **SURROUND CENTER OUT jack**

This is the Dolby surround center channel signal output jack. With the VSX-7300, it can also be used as a 3D (single subwoofer) system MONO output.

NOTE FOR VSX-9300S

A signal is output from the CENTER OUT jack only when the SURROUND MODE is set to DOLBY SURROUND.

⑤ **VIDEO ADAPTOR jacks**

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

⑥ **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 jacks]

Connect to monitor TV or to TV sets with video input terminals.

[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 breakdowns may occur when conductors come into contact with each other.

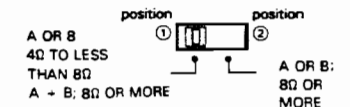
⑦ **FRONT SPEAKERS terminals**

- A: Connect to a first set of speakers.
- B: Connect to a second set of speakers.

Please refer to item B. Front speakers impedance selector switch.

⑧ **Front speakers impedance selector switch**

Set this switch to match the impedance of your speakers.



• When using a pair of speakers:

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

• When using two pairs of speakers:

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

NOTE:

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

⑨ AC OUTLETS (SWITCHED) TOTAL 300W 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 300W.

(UNSWITCHED) 200W 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 200W.

The equipment should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.

NOTE:

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS in order to avoid overheating or fire risk.

This can cause the receiver to malfunction.

⑩ Audio INPUT jacks

PHONO Connect to turntable.

CD Connect to compact disc player.

⑪ CONTROL IN, OUT jacks

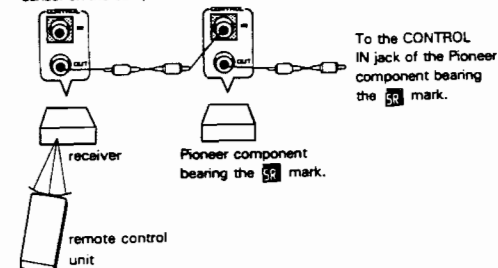
Used for system control with other Pioneer components bearing the **SR** mark.

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.



⑫ TAPE1/DAT1 jacks

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

Connecting for Recording

The tape recording jack (TAPE REC) on the tape deck or DAT should be connected to the REC side of the TAPE1/DAT1 jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the tape deck or DAT to the PLAY side of the TAPE1/DAT1 jack on the receiver with a pin plug connecting cord.

⑬ TAPE2/DAT2 jacks

Connect a second tape deck to or DAT these jacks.

Connecting for Recording

The tape recording jack (TAPE REC) on the tape deck should be connected to the REC side of the TAPE2/DAT2 jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the tape deck to the PLAY side of the TAPE2/DAT2 jack on the receiver with a pin plug connecting cord.

⑭ TV jacks

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.

⑮ 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.

⑯ VCR1 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR2, VDP or TV jacks, connect to the VIDEO INPUT jack of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program material from the video component connected to the VCR2 or VDP jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jack here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑰ VCR2 jacks

[VIDEO OUT]

When copying program materials from the video component connected to the VCR1, VDP or TV jack, connect to the VIDEO INPUT jack of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program materials from the video component connected to the VCR1, VDP or TV jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jack here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑱ FRONT PRE-OUT jacks

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

⑳ FRONT POWER IN jacks

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

㉑ REAR SPEAKERS terminals

Connect the surround rear speakers to these terminals.

NOTE:

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

㉒ Power cord

13. REMOTE CONTROL UNIT LEARNING FUNCTION (Programmable remote control unit only)

Introduction

This system remote control can "learn" the commands of other remote control units, regardless of manufacturer, as long as the other unit is of the infrared type.

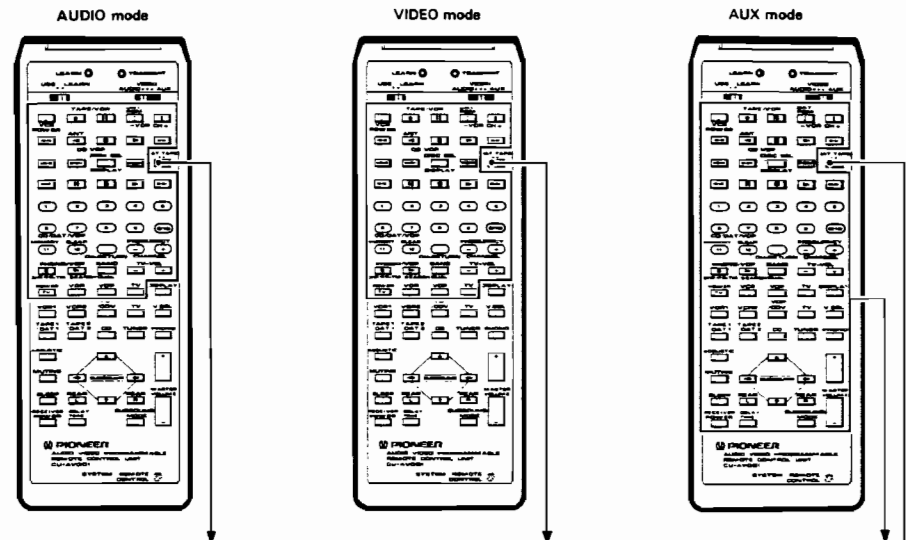
In some cases you may still need the original remote control unit for special situations. But as a rule, you will be able to use this Pioneer remote for most system control needs, including video as well as audio equipment.

NOTE:

When using the "LEARN" mode it is a good idea to take the two remote control units to another room. This avoids problems such as sudden high volume output or accidental tape erasure that may occur if particular infrared command signals reach your components. Alternatively, you may wish to unplug your component system. Simply turning off the power may not be sufficient since power on/off switching may also be remote controllable.

Which keys can be programmed with new commands?

There are two mode selector switches near the front end of the remote. The LEARN mode selector lets you select the USE or LEARN function. The LEARN mode allows the Pioneer remote to "LEARN" the commands of other remote control units. The USE mode allows you to use this remote control unit for operation of your system.



In the AUDIO mode the TAPE function keys can be preset with new functions for the DAT position or the TAPE position. The initial **SR** settings will remain in the other position (43 keys can be programmed.)

In the VIDEO mode the DAT/TAPE switch is inoperative (43 keys can be programmed.)

When teaching functions whose names differ from those of the keys, write in the names or codes of the functions on the included templates and place on the panel.

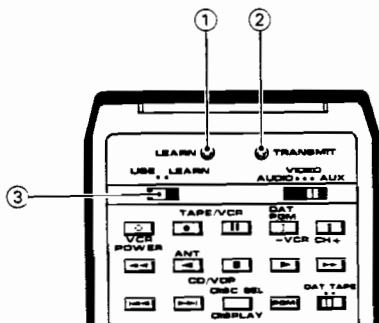
All buttons can be preset (68 keys can be programmed.)

In the AUX mode the DAT/TAPE switch is inoperative.

[Operation Example]

Using the remote control unit of your VCR to program the playback command.

- It is recommended that the name of the key and its function correspond. This is convenient when operating equipment.



① LEARN indicator

This indicator shows the remote control unit operating condition.

LIT:

Learning is possible.

OFF:

Regular remote control functions are performed.

FLASHING:

Means the key is not available for programming a new command in the current mode.

② TRANSMIT indicator

This indicator flashes when remote control signals are sent.

③ LEARN selector switch

Set as follows:

LEARN:

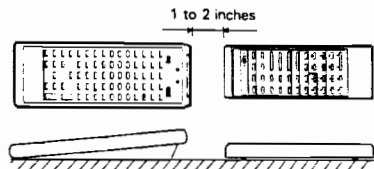
This position is used for storing the codes of your remote control unit.

USE:

Set to this position after codes have been stored in the LEARN position. Set to this position for normal operation.

[Operation example]

1. Set the LEARN switch of the programmable remote control unit to the LEARN position and set the TRANSMIT mode selector switch to the VIDEO position.
2. Place the transmission sections of the programmable remote control unit and the remote control of the VCR facing each other.



- Place the two units on a table, separated by 2 to 5 cm (1 to 2 inches).

Memorization will not be possible if they are too close.

3. Hold down the VCR PLAY key of the Programmable remote control unit until the LEARN indicator light up, then release the key.
4. Hold down the PLAY key of the VCR remote control unit.
5. Release the key of the VCR remote control unit after making sure that the LEARN indicator has gone out on the Pioneer remote control unit.

NOTE:

If the LEARN indicator flashes, it indicates that you are trying to preset a key not available for the learning function, or otherwise the program capacity has been exceeded, the function programmed last will not be memorized correctly. All previously programmed functions, however, will be retained in memory and may be used as they are if the last function is not essential.

6. Set the LEARN selector switch of the programmable remote control unit to the USE position.
 - The previous code (Pioneer uniform remote control code or code for other equipment) is erased and replaced by the new code.
7. Check that the program works.
 - Try actual operation and make sure the unit works properly.
 - If the VCR does not operate when pressing the key, change angle, position and distance between the remote control units and repeat the programming procedure.
 - When programming, make sure that the function indications (for example, ►, ►►, ■) on the other remote control unit and the programmable remote control unit are the same. This will facilitate operation.

Questions and Answers about the Learning Function

Q: The remote control unit of my VCR has two REC (recording) keys. They both have to be pressed at the same time to start recording. What is the learning procedure in this case?

A: Hold one of the keys on the programmable remote control depressed (for example the VCR ● key) until the LEARN indicator lights up, and then press the two keys on the VCR remote control simultaneously.

Q: The remote control unit of my VCR has a REC (recording) key and a PLAY (playback) key and they both have to be pressed at the same time to start recording. What is the learning procedure in this case?

A: Hold one of the keys on the programmable remote control depressed (for example the VCR ● key) until the LEARN indicator lights up, and then press the REC and PLAY keys on the VCR remote control simultaneously.

- As described above, operations which require two keys to be pressed at the same time are programmed by pressing the two keys simultaneously.

Operating other equipment using the programmable remote control unit

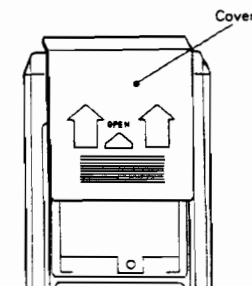
1. Set the LEARN switch of the programmable remote control unit to the USE position.
2. Set the TRANSMIT mode selector switch to the desired position (AUDIO/VIDEO/AUX).
 - Set to the VIDEO position for programming as described in the example.
3. Press the key of the desired function.
 - The TRANSMIT indicator lights up while the remote control unit is sending codes.

NOTE:

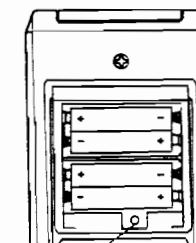
- When operating programmed keys, always set the LEARN switch to the USE position. Operation is not possible in the LEARN position.
- For functions which require two keys to be pressed at the same time (recording etc.) or functions for which several codes are sent simultaneously (auto functions, timer programming, etc.) the programming procedure is different and improper operation may occur.

Returning to the Initial Settings

1. Set the LEARN selector switch to the LEARN position.
2. Remove the battery cover.



3. Press any of the keys available for programming. The LEARN indicator will illuminate.
4. Use a ball-point pen or similar object to press the RESET key while the LEARN indicator is flashing.



- The programmed functions for the AUDIO, VIDEO and AUX positions are cleared, and the remote control unit is reset to the Pioneer uniform remote control codes.
- Press the button gently, do not use excessive force.

14. SPECIFICATIONS

Amplifier section (POWER IN) FRONT

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.**

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

**Measured by Audio Spectrum Analyzer.

Continuous Power Output	
1 kHz, 0.7%, 8 Ω (Rear)	30W + 30W
Dynamic Power (2 Ω/4 Ω/8 Ω)	280 W/260 W/185 W
Damping Factor	
1 kHz, 8 Ω	100
Input (Sensitivity/Impedance)	
PHONO MM	2.5 mV/47 kΩ
CD, TAPE 1/DAT 1, TAPE 2/DAT 2, TV, VDP/CDV,	
VCR 1, VCR 2	150 mV/47 kΩ
FRONT 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, TAPE 1/DAT 1, TAPE 2/DAT 2, TV, VDP/CDV,	
VCR 1, VCR 2	5 Hz to 100,000 Hz -0.3 dB
Output (Level/Impedance)	
TAPE 1/DAT 1 REC, TAPE 2/DAT 2 REC	150 mV/2.2 kΩ
VCR 1 OUT, VCR 2 OUT	150 mV/2.2 kΩ
FRONT PRE AMP OUT	1 V/220Ω
Tone Control	
BASS 100 Hz	±8 dB
TREBLE 10 kHz	±8 dB
VCR Noise Filter	100 Hz, 5 kHz: -3 dB
Loudness Contour	6 dB (100 Hz)
	3 dB (10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	82 dB
CD, TAPE 1/DAT 1, TAPE 2/DAT 2, TV, VDP/CDV,	
VCR 1, VCR 2	98 dB
Signal-to-Noise Ratio (EIA, at 1 W (1 kHz))	
PHONO MM	77 dB
CD, TAPE 1/DAT 1, TAPE 2/DAT 2, TV, VDP/CDV	
VCR 1, VCR 2	80 dB
SURROUND Section	
CENTER OUT (L = R = 106 mV input) (Level/Impedance)	
.....	2 V/4.7 kΩ

VIDEO Section

Input (Level/Impedance)	
VCR 1, VCR 2, VDP/CDV, TV, ADAPTOR	1Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1, VCR 2, ADAPTOR, MONITOR	1Vp-p/75 Ω
Frequency Response	
VCR 1, VCR 2, VDP/CDV, TV, ADAPTOR-MONITOR	
.....	5 Hz - 10 MHz ±0.5 dB
Signal-to-Noise Ratio	55 dB
Cross Talk	55 dB (3.58 MHz)
Enhancer	2 MHz ±3 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 10.8 dBf, IHF (0.95 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 15.3 dBf, (1.6 μV/75 Ω)
	Stereo: 37.1 dBf, (19.5 μV/75 Ω)
Signal-to-Noise Ratio	Mono: 80 dB (at 65 dBf)
	Stereo: 76 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 -2.5 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	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	300 μV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Image Interference Ratio	40 dB
IF Interference Ratio	65 dB
Antenna	Loop antenna

Miscellaneous

Power requirements	AC 120V, 60 Hz
Power consumption	550 W, 660 VA
In standby condition	3 W
AC Outlets	
SWITCHED x 2	TOTAL 300 W MAX
UNSWITCHED x 1	200 W MAX
Dimensions	420 (W) x 156 (H) x 421 (D) mm
	16-9/16 (W) x 6-1/8 (H) x 16-9/16 (D) in
Weight (without package)	12 kg (26 lb 7 oz)

Furnished Parts

FM T-type antenna	1
AM Loop antenna	1
Dry cell battery	
VSX-9300S (LR03/AM-4)	4
VSX-7300 (R03/UM-4)	2
Remote control unit	1
Operating Instructions	1
Templates added (VSX-9300S only)	2

NOTE:

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