

Service Manual

 **PIONEER®**
The Art of Entertainment

ORDER NO.
ARP2268

AUDIO/VIDEO STEREO RECEIVER

VSX-5900S

KU, SD

- Refer to the service manual ARP2037, VSX-5700/KUC type.

VSX-5900S HAS THE FOLLOWING :

Type	Power Requirement	Remarks
KU	AC120V only	
SD	AC110V, 120V-127V, 220V, 240V (switchable)	

- This manual is applicable to the VSX-5900S/KU and SD types.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

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

The VSX – 5900S/KU and SD types are the same as the VSX – 5700S/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		VSX – 5700S/ KUC type	VSX – 5900S/ KU type	VSX – 5900S/ SD type	
\triangle	S1 Voltage selector switch (AC110V – 127V/220V – 240V)	.....	.....	AKX1004	
\triangle	S3 Voltage selector switch (AC110V/120V – 127V/220V/240V)	.....	.....	AKX – 507	
\triangle	S4 Slide switch (50 μ S \leftrightarrow 75 μ S)	.....	.....	ASH – 004	
\triangle	T1 Power transformer	ATS1275	ATS1275	ATS1276	
\triangle	FU1 Fuse (8A/125V)	AEK1002	AEK1002	.....
\triangle	FU1 Fuse (4A/125V)	.....	.....	AEK – 125	
\triangle	FU2 Fuse (4A/125V)	.....	.....	AEK – 125	
\triangle	FU3, FU4 Fuse (6.3A/125V)	AEK – 309	AEK – 309	AEK – 127	
\triangle	AC Power cord	ADG1057	ADG1057	ADG1015	
	Display panel	AAK1934	AAK2167	AAK2167	
	Push rivet	.....	.....	AEP – 319	
	Front panel	ANB1393	ANB1482	ANB1482	
	Screw	.....	.....	VMZ26P040FZK	
	Packing case	AHD1853	AHD2096	AHD2112	
	Operating instructions (English)	ARB1250	ARB1327	ARB1327	
	Operating instructions (Spanish)	.....	.....	ARC1286	
	Remote control unit (CU – VSX016)	AXD1149	.....	.....
	Remote control unit (CU – VSX032)	.....	AXD1216	AXD1216	

NOTE :

The SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of VSX – 5900S/SD type is the same as those of VSX – 5700S/SD type.

2. REMOTE CONTROL UNIT (CU – VSX032)

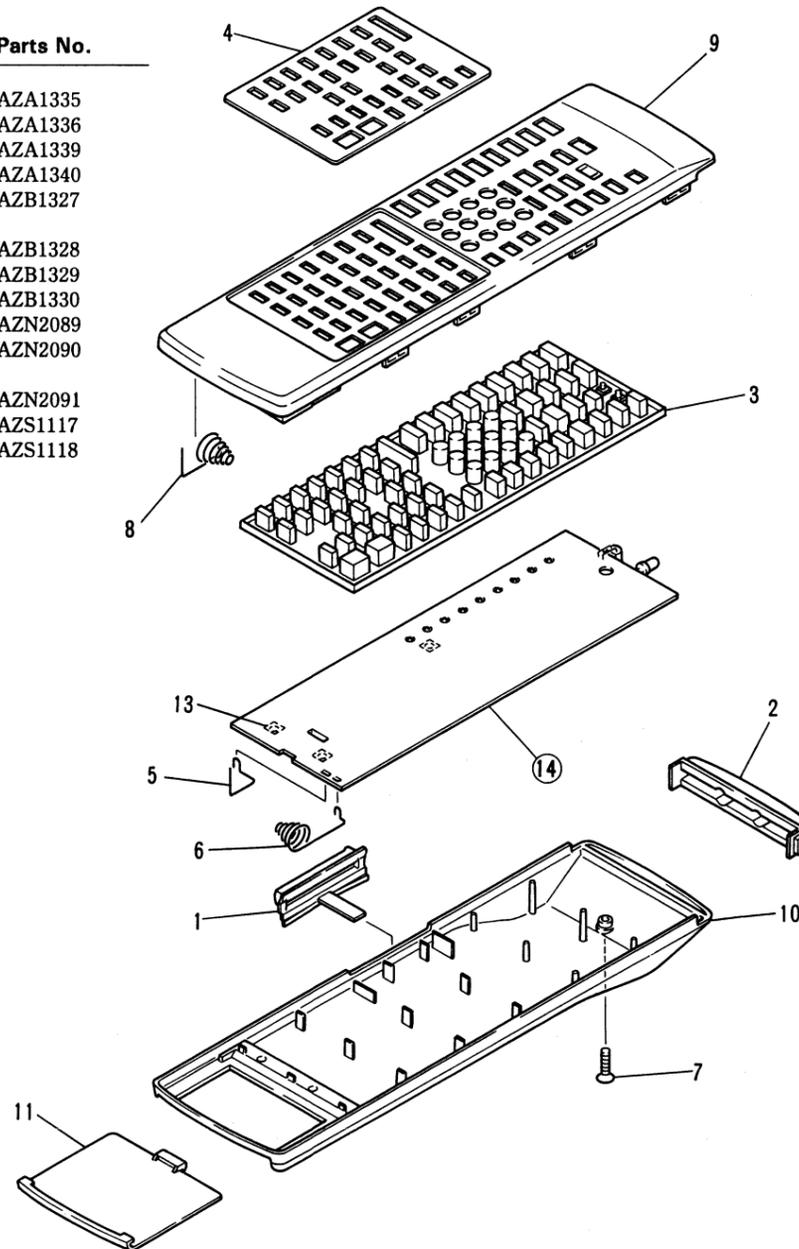
2.1 EXPLODED VIEWS AND PARTS LIST

NOTES:

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

Parts list of Exterior

Mark	No.	Description	Parts No.
	1	MODE CHECK KEY	AZA1335
	2	FILTER	AZA1336
	3	RUBBER SHEET	AZA1339
	4	PLATE	AZA1340
	5	TERMINAL (A, +)	AZB1327
	6	TERMINAL (B, -)	AZB1328
	7	SCREW	AZB1329
	8	TERMINAL (C)	AZB1330
	9	CASE (A)	AZN2089
	10	CASE (B)	AZN2090
	11	BATTERY CASE	AZN2091
	12	SLIDE SW	AZS1117
	13	TACT SW	AZS1118
	14	P.C.BOARD	



2.2 PCB's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by “ \odot ” 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 $\times 10^1$	5621.....	RN1/4SR \square \square \square F
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Mark	No.	Description	Parts No.
	IC1	μ -COM	ACM001-017
	IC2	IC	AZC1564
	IC3	LOGIC IC	MC74HC138F
	Q1, 2	CHIP TRANSISTOR	2SC3052E
	Q3, 4	POWER TRANSFORMER	2SD1622
	D1	DIODE	DWA010
	D10-17	LED	AZC1573
	D2-6	DIODE	DWA010
	D7	LED	SLR-938C
	D8	DIODE	SPS-503C-3
	D9	LED	AZC1573
CAPACITORS			
	C1, 2	CERAMIC CAPACITOR	CCDSL330J50
	C3	CERAMIC CAPACITOR	CCDSL221J50
	C4	CERAMIC CAPACITOR	CKDYX104M25
	C5	ELECTROLYTIC CAPACITOR	CEAS470M10
	C6	CERAMIC CAPACITOR	CKDYB103K50
	C7	ELECTROLYTIC CAPACITOR	CEAS221M10
	C8	ELECTROLYTIC CAPACITOR	CEAS4R7M50
RESISTORS			
	R7, 8	CARBON FILM RESISTOR	RD1/4PMFL1R5J
		Other resistors	RD1/8PM \square \square \square J
OTHERS			
	X1	RESONATOR	AZC1570

2.3 SCHEMATIC DIAGRAM

NOTE)

JP2 : The terminal for switching Fc (carrier frequency of the fixed code). This terminal is set at OPEN (Fc = 40kHz) when delivered. If a product of another manufacturer accidentally receives the PIONEER code, short the terminal so that Fc will be 36.7kHz. (In which case, the learned code and preset code do not change.)

JP3 : This remote control saves the learned data, timing data in ROM and other data (such as code data) in RAM. ROM already contains the timing data for other primary manufacturers. JP3 is a terminal for switching whether or not to use that pre-loaded timing data during learning.

This terminal is set at OPEN when delivered. If "data is learned but the product does not operate," there is the rare possibility that learned timing data is affected by the timing data for another primary manufacturer in ROM, causing the receiving product to be deactivated. In such a case, short JP3 to clear all the learned data and restart data learning, so that the data precision is increased. (In which case, the learned data in RAM is shared as is.)

NOTE:

- : Indicates a chipresistor.
- ⊕ : Indicates a chipcapacitor.
- ⊗ : Indicates a chiptransistor.
- ⊠ : Indicates a chipdiode.

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: pF Indication without voltage is 50V except electrolytic capacitor.

3. OTHERS:

→ : Signal route.

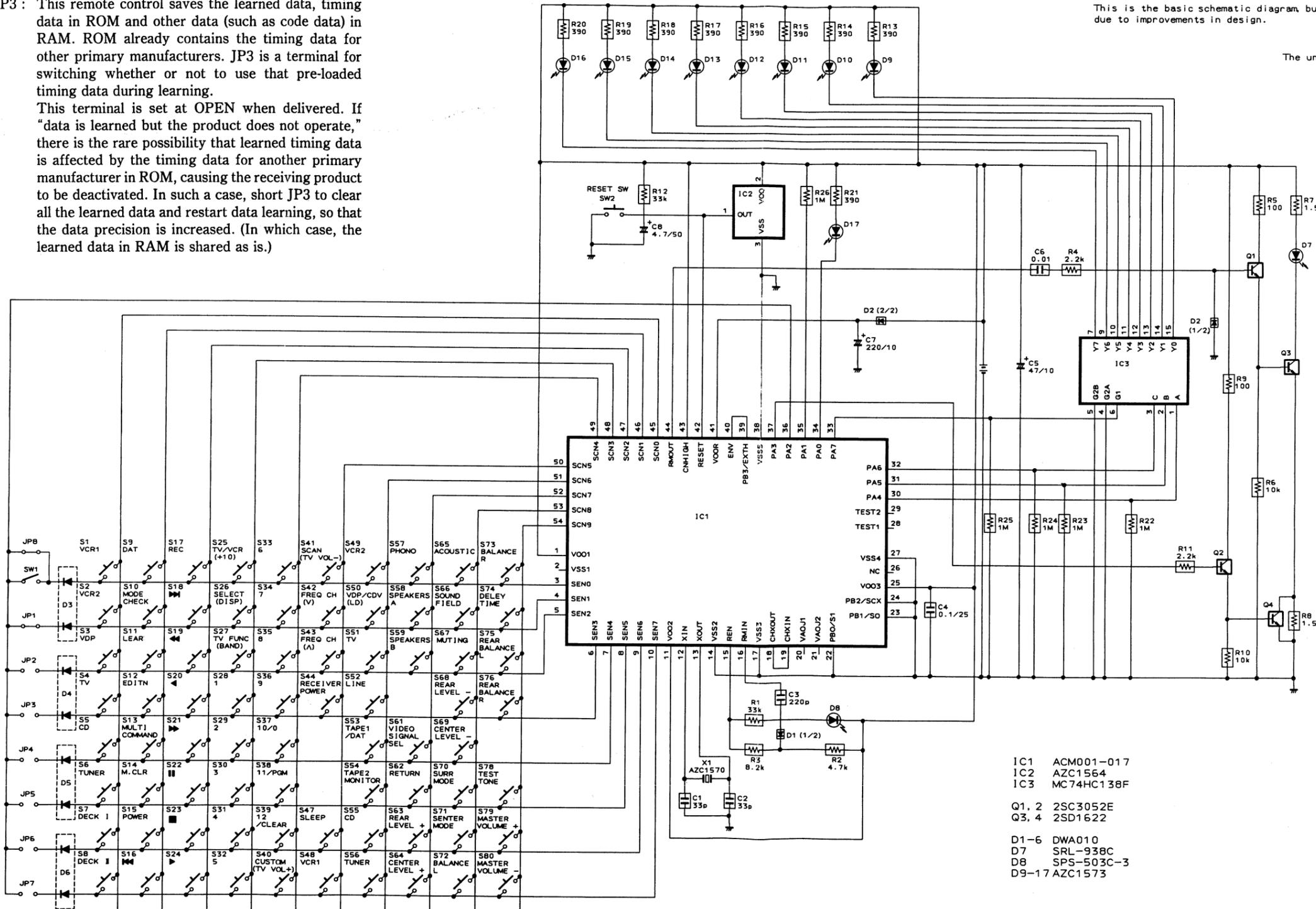
⊙ : Adjusting point.

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure of use parts of identical designation. * marked capacitors and resistors have parts numbers.

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

The underline indicates the switch position

- SW1: NOT USED
- SW2: RESET
- S1: VCR1
- S2: VCR2
- S3: VDP
- S4: TV
- S5: CD
- S6: TUNER
- S7: DECK I
- S8: DECK II
- S9: DAT
- S10: MODE CHECK
- S11: LEARN
- S12: EDIT
- S13: MULTI COMMAND
- S14: M. CLR
- S15: POWER
- S16:
- S17: REC
- S18:
- S19:
- S20:
- S21:
- S22:
- S23:
- S24:
- S25: TV/VCR (+10)
- S26: SELECT (DISP)
- S27: TV FUNC (BAND)
- S28: 1
- S29: 2
- S30: 3
- S31: 4
- S32: 5
- S33: 6
- S34: 7
- S35: 8
- S36: 9
- S37: 10/0
- S38: 11/PGM
- S39: 12/CLEAR
- S40: CUSTOM (TV VOL+)
- S41: SCAN (TV VOL-)
- S42: FREQ CH (V)
- S43: FREQ CH (A)
- S44: RECEIVER POWER
- S47: SLEEP
- S48: VCR1
- S49: VCR2
- S50: VDP/CDV (LD)
- S51: TV
- S52: LINE
- S53: TAPE1/DAT
- S54: TAPE2/MONITOR
- S55: CD
- S56: TUNER
- S57: PHONO
- S58: SPEAKERS A
- S59: SPEAKERS B
- S61: VIDEO SIGNAL SEL
- S62: RETURN
- S63: REAR LEVEL +
- S64: CENTER LERVEL +
- S65: ACOUSTIC
- S66: SOUND FIELD
- S67: MUTING
- S68: REAR LEVEL -
- S69: CENTER LERVEL -
- S70: SURR MODE
- S71: CENTER MODE
- S72: BALANCE L
- S73: BALANCE R
- S74: DELEY TIME
- S75: REAR BALANCE L
- S76: REAR BALANCE R
- S78: TEST TONE
- S79: MASTER VOLUME +
- S80: MASTER VOLUME -



- IC1 ACM001-017
- IC2 AZC1564
- IC3 MC74HC138F
- Q1, 2 2SC3052E
- Q3, 4 2SD1622
- D1-6 DWA010
- D7 SRL-938C
- D8 SPS-503C-3
- D9-17 AZC1573

A

B

C

D

A

B

C

D

2.4 P.C.BOARD PATTERN

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

A

A

B

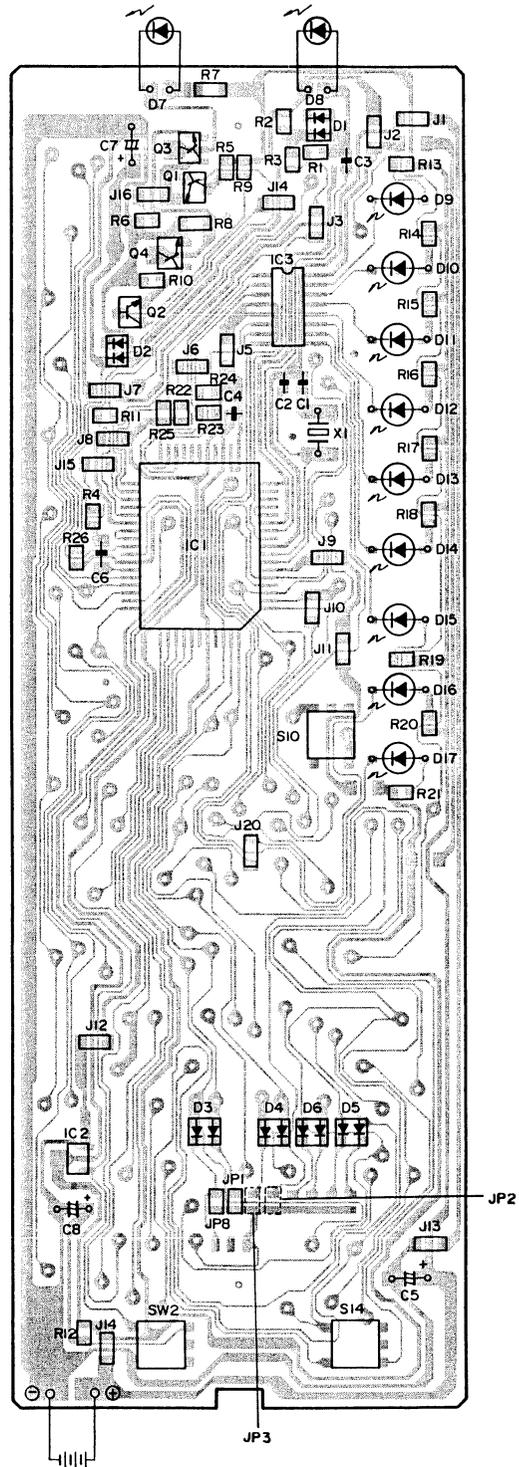
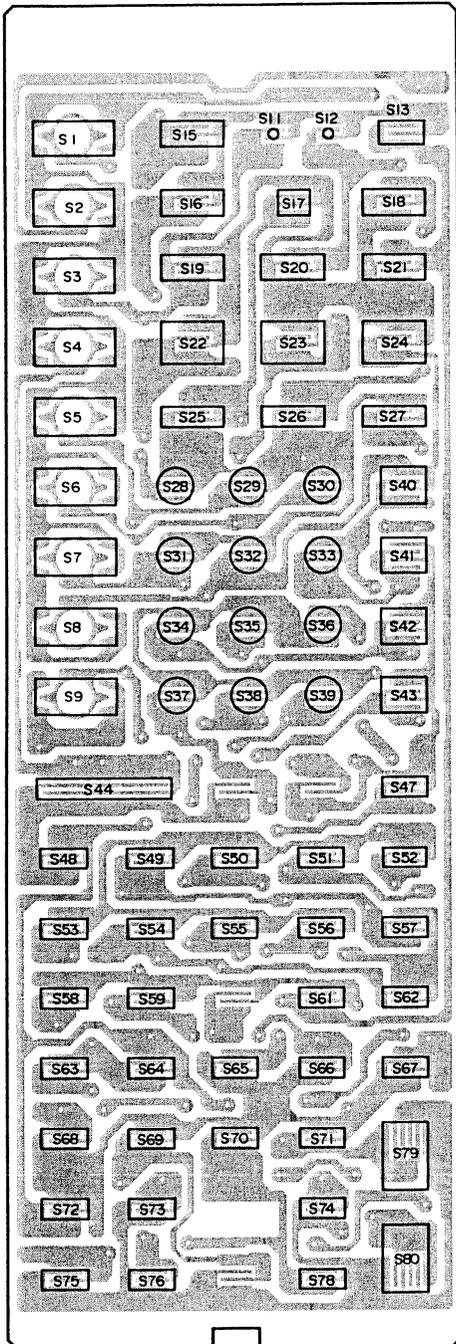
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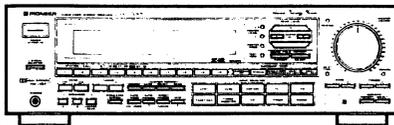
C

D

D



Service Manual



ORDER NO.
ARP2037

AUDIO/VIDEO STEREO RECEIVER

VSX-5700S

VSX-5600

MODELS VSX-5700S AND VSX-5600 HAVE FOLLOWING VERSIONS :

Type	Applicable model		Power requirement	Destination
	VSX-5700S	VSX-5600		
KUC	○	○	AC120V only	U.S.A. and Canada
SD	○	-	AC110V,120V-127V,220V,240V (Switchable)	Kingdom of Saudi Arabia and general market

- This manual is applicable to the VSX-5700S/KUC,SD and VSX-5600/KUC types.
- As to the VSX-5700S/SD and VSX-5600/KUC types, refer to page 65.
- The " S " at the end of the model number indicates that a programmable remote control unit is supplied.

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

1. SAFETY INFORMATION

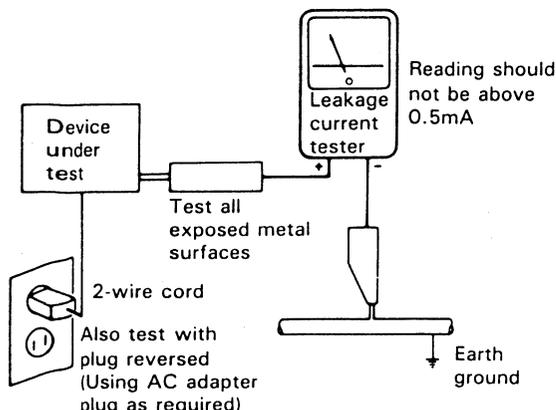
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

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

2. EXPLODED VIEWS, PACKING AND PARTS LIST

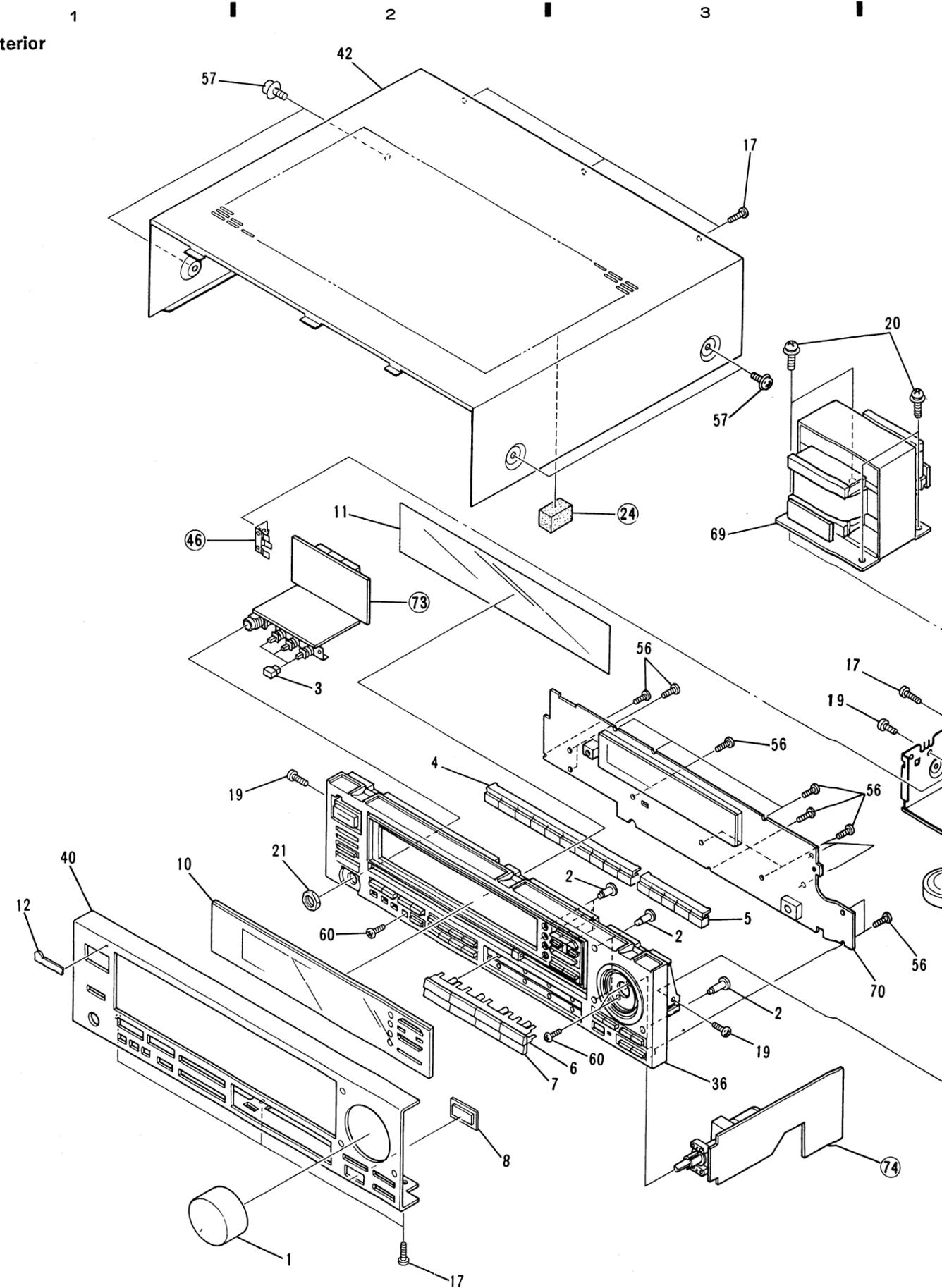
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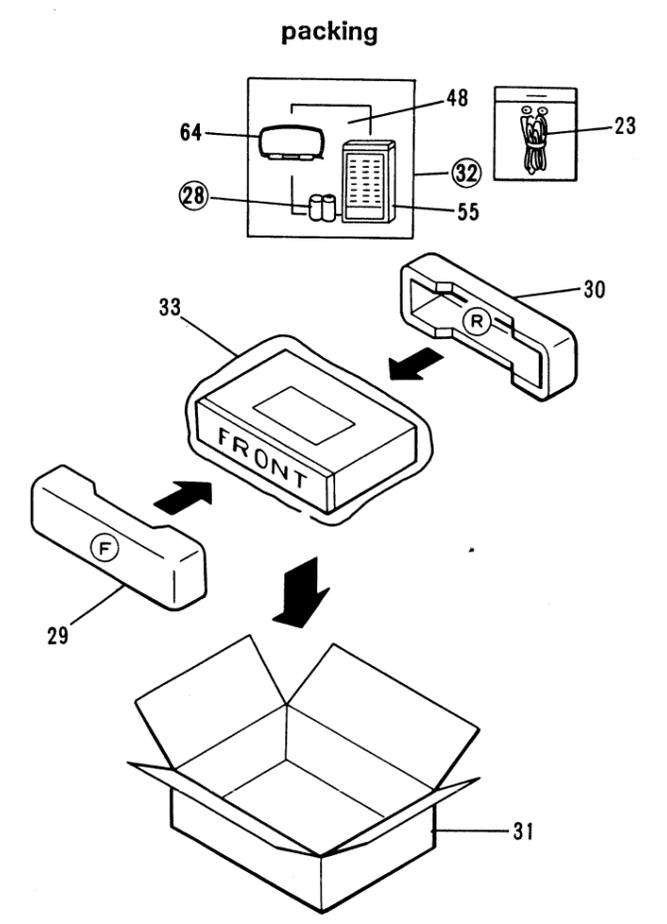
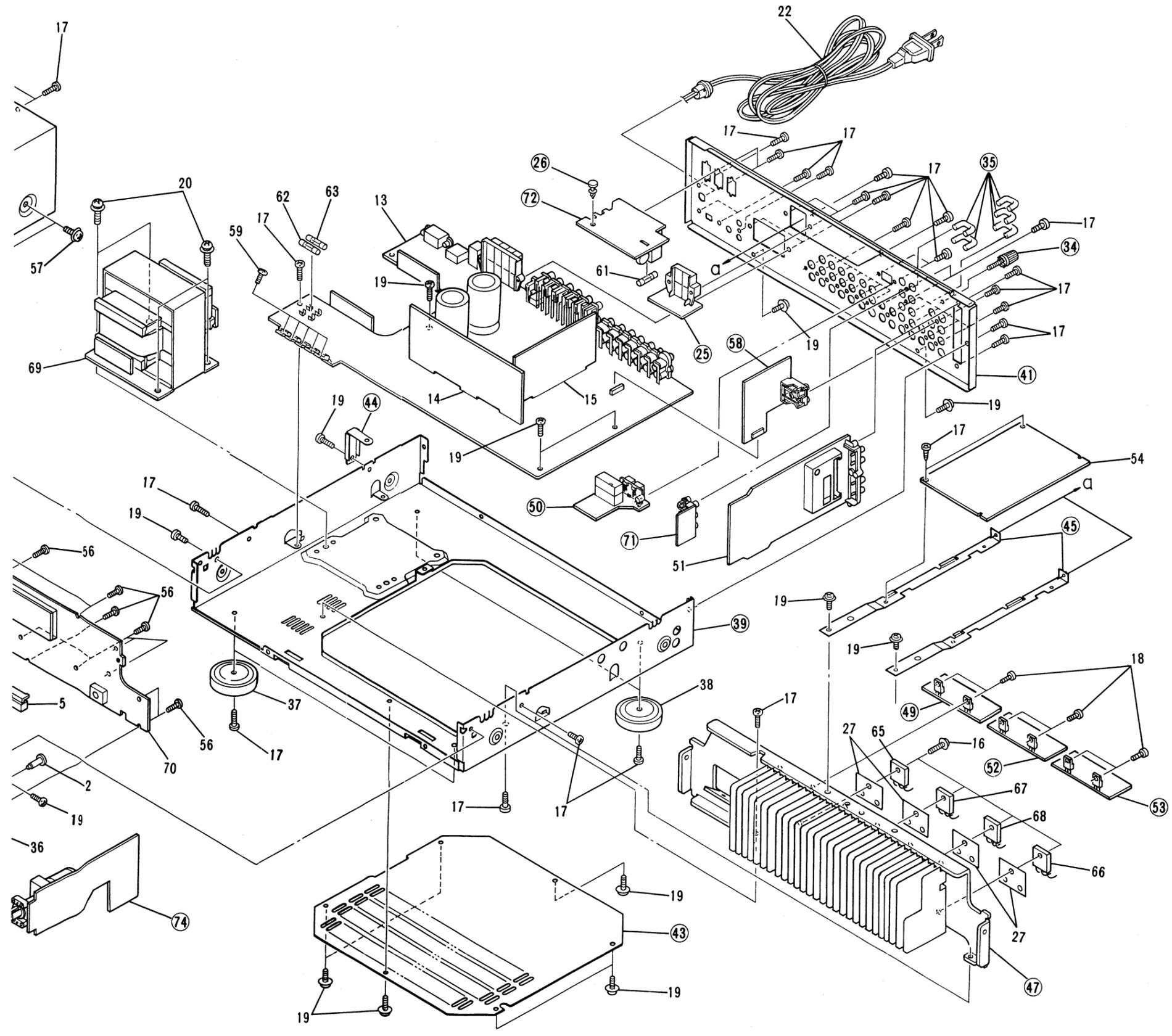
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- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Parts list of Exterior and packing

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	MASTER VOL ASSEMBLY	AAB1119		41	REAR PANEL	
	2	TACT KNOB	AAD1398		42	BONNET COVER	AZN1934
	3	SP SW BUTTON	AAD1587		43	BOTTOM PLATE	
	4	STATION BUTTON	AAD1588		44	PLATE	
	5	SURROUND MODE BUTTON	AAD1777		45	PLATE A	
	6	FUNCTION BUTTON	AAD1778		46	PLATE B	
	7	FUNCTION BUTTON	AAD1779		47	HEAT SINK	
	8	SENSOR ACRYLIC	AAK1323		48	INSTRUCTION MANUAL	ARB1250
	9	.....	.....		49	CENTER AMP ASSEMBLY	
	10	DISPLAY PANEL	AAK1934		50	CENTER SP ASSEMBLY	
	11	FL FILTER	AAK1935		51	TUNER ASSEMBLY	AWE1140
	12	NAME PLATE (METAL)	AAM1029		52	REAR AMP Lch ASSEMBLY	
	13	MAIN ASSEMBLY	AWZ2906		53	REAR AMP Rch ASSEMBLY	
	14	AMP ASSEMBLY	AWH1008		54	PROLOGIC ASSEMBLY	AWX1040
	15	SURROUND ASSEMBLY	AWX1039		55	REMOTE CONTROL UNIT	AXD1149
	16	SCREW(STEEL)	ABA-297		56	SCREW	BBZ26P080FMC
	17	SCREW	ABA-298		57	SCREW	FBT40P080FZK
	18	SCREW(STEEL)	ABA1007		58	EQ ASSEMBLY	
	19	SCREW(STEEL)	ABA1011		59	SCREW	PBZ25P100FMC
	20	SCREW(STEEL)	ABA1093		60	SCREW	VMZ30P060FMC
	21	NUT	ABN-065	⚠	61	FUSE(8A, FU1)	AEK1002
	22	AC POWER CORD	ADG1057	⚠	62	FUSE(6.3A, FU3)	AEK-309
	23	FM ANTENNA	ADH1004	⚠	63	FUSE(6.3A, FU4)	AEK-309
	24	CUSHION RUBBER M		⚠	64	LOOP ANTENNA	ATB1005
	25	REAR SP ASSEMBLY		⚠	65	TRANSISTOR Q1	2SC3281
	26	PIN GROMMET		⚠	66	TRANSISTOR Q2	2SC3281
	27	MICA SHEET	AEP-313	⚠	67	TRANSISTOR Q3	2SA1302
	28	AM4 BATTERY(1.5V)		⚠	68	TRANSISTOR Q4	2SA1302
	29	STYROL PROTECTOR	AHA1020	⚠	69	POWER TRANSFORMER T1	ATS1275
	30	STYROL PROTECTOR	AHA1021	⚠	70	FRONT ASSEMBLY	AWZ2914
	31	PACKING CASE	AHD1853		71	PRE POWER ASSEMBLY	
	32	LITERATURE BAG			72	PRIM ASSEMBLY	
	33	SHEET	AHG1016		73	SP SW ASSEMBLY	
	34	TERMINAL SCREW			74	VOL ASSEMBLY	
	35	PLUG					
	36	PANEL BASE ASSEMBLY	AMB1650				
	37	INSULATOR ASSEMBLY	AMR1434				
	38	INSULATOR ASSEMBLY	AMR1435				
	39	CHASSIS					
	40	FRONT PANEL	ANB1393				

Exterior



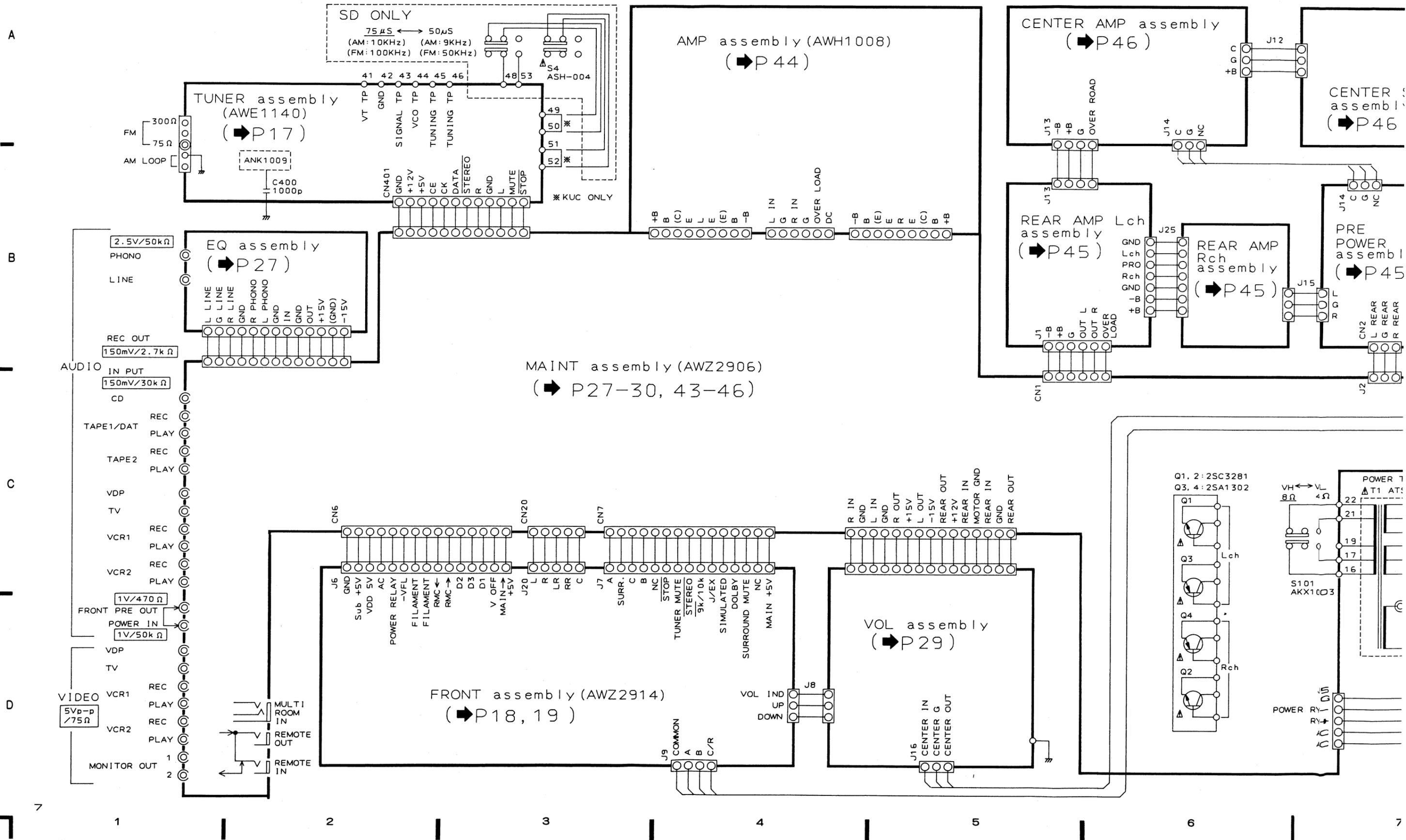


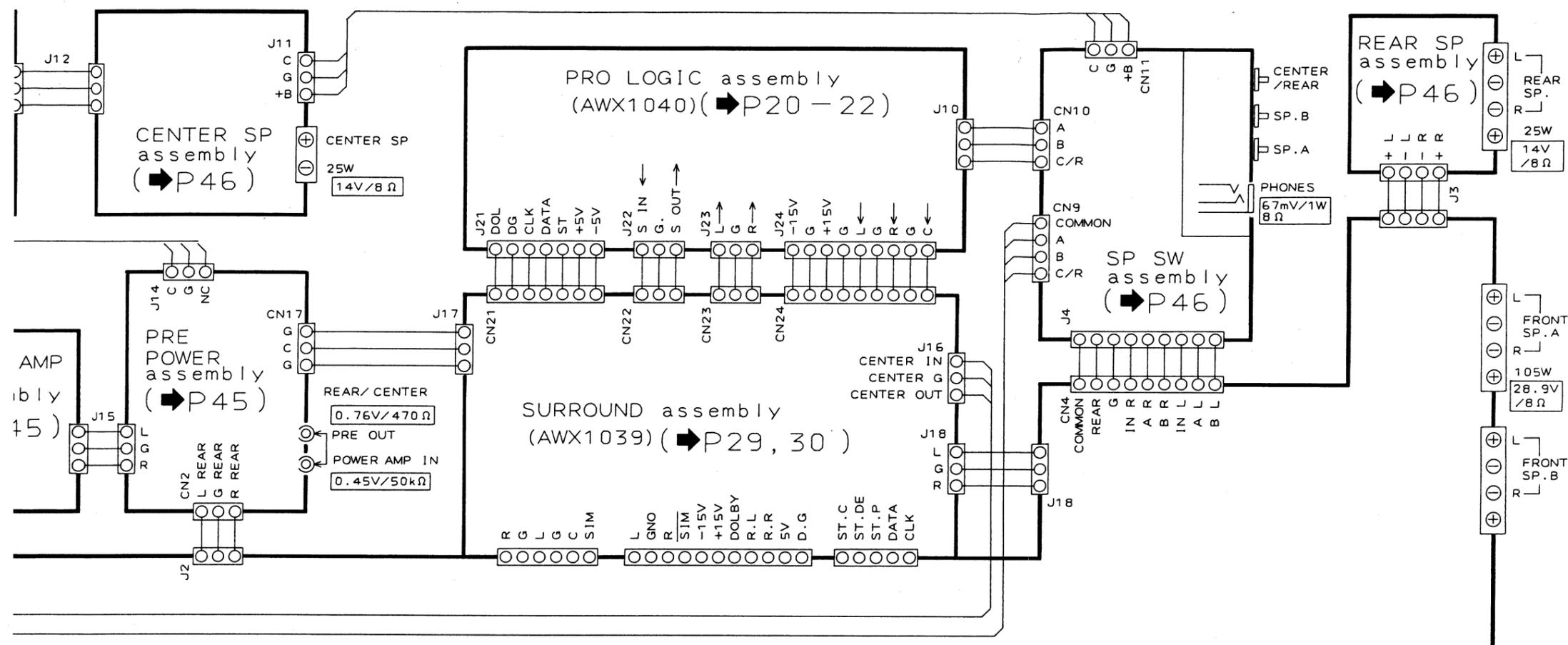
3 4 5 6 7 8 9

A B C D

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

3.1 OVER ALL SCHEMATIC DIAGRAM





- RESISTORS:**
Indicated in Ω, ¼W, ½W, ±5% tolerance unless otherwise noted k:kΩ, M:MΩ, (F): ±1%, (G): ±2%, (K): ±10% (M): ±20% tolerance
 - CAPACITORS:**
Indicated in capacity (μF)/voltage (V) unless otherwise noted p:pF
Indication without voltage is 50V except electrolytic capacitor.
 - VOLTAGE, CURRENT:**
□: Signal voltage at 100W + 100W /8Ω (FRONT), 20W + 20W /8Ω (REAR), 20W /8Ω (CENTER) output (1kHz)
○: DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
← mA: DC current at no input signal
 - 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.

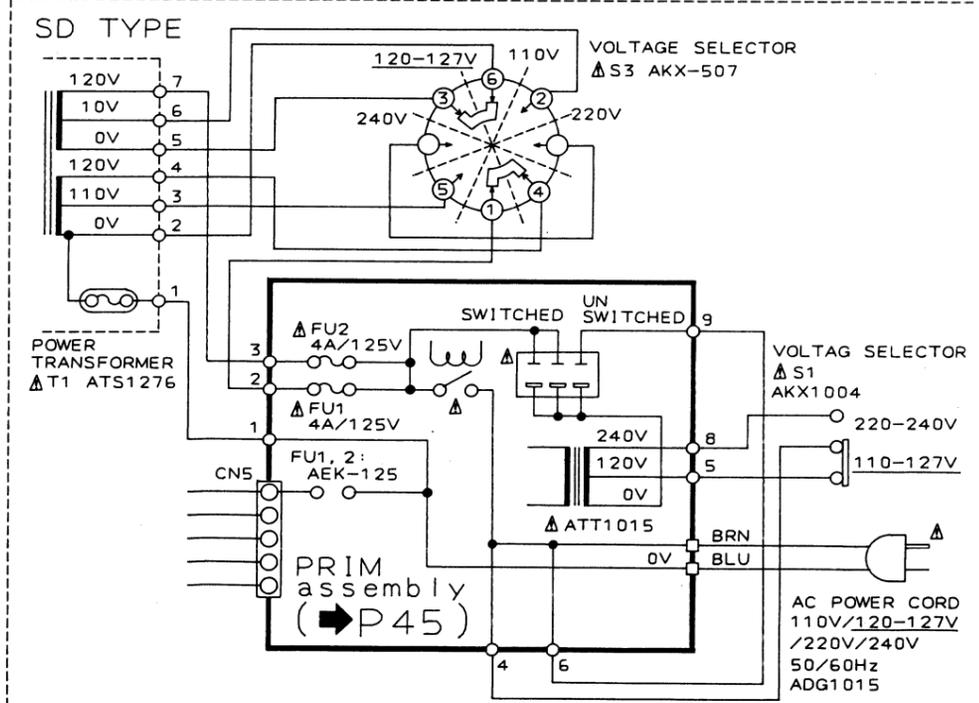
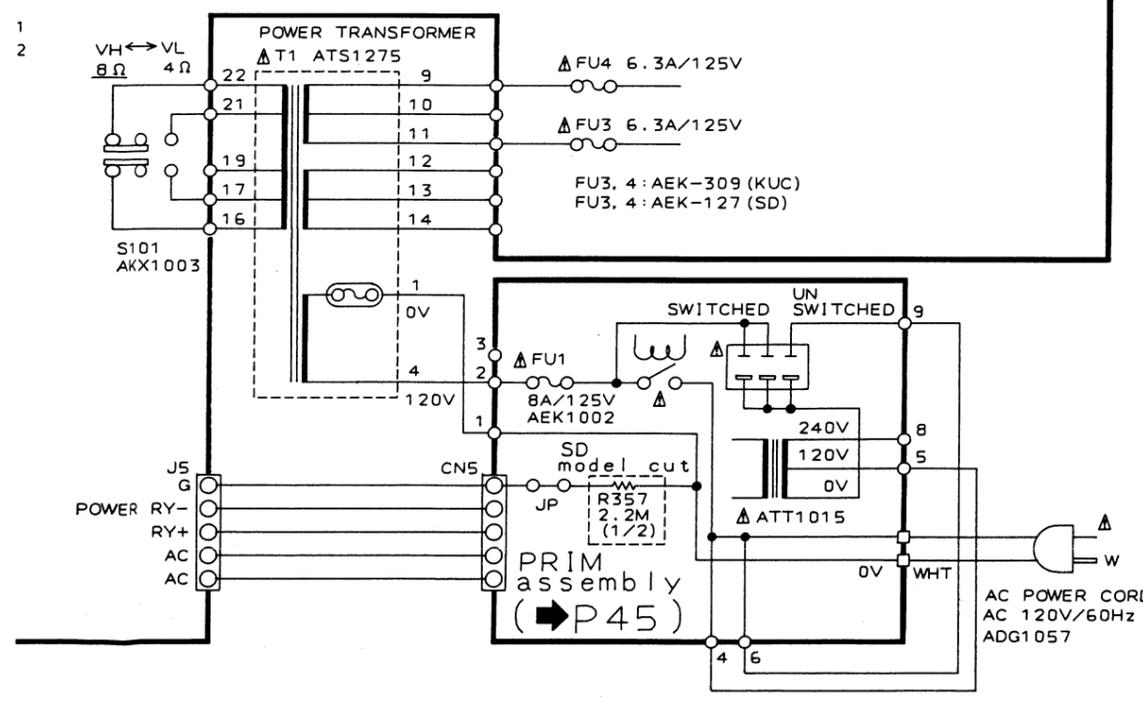
SWITCHES:

MAIN assembly

S101 VL(4Ω) - VH(8Ω)

FRONT assembly

S301	MUTING	S331	NAME
S302	DELAY TIME	S332	SELECT
S303	ACOUSTIC MEMORY	S333	SCAN
S304	ACOUSTIC SELECT	S334	VCR1
S305	POWER	S335	VCR2
S306	BAL.L	S336	TV
S307	BAL.R	S337	LINE
S308	REAR -	S338	BASS +
S309	REAR +	S339	TREBLE +
S310	SOUND FIELD MEMORY	S340	V.SEL
S311	SOUND FIELD SELECT	S341	S.S
S312	1	S342	AUTO/MONO
S313	2	S343	AUTO/MANUAL
S314	3	S344	DIRECT
S315	4	S345	HITS
S316	5	S346	TAPE1
S317	6	S347	TAPE2
S318	7	S348	TUNER
S319	8	S349	PHONO
S320	9	S350	BASS -
S321	10	S351	TREBLE -
S322	OFF	S352	RETURN
S323	STUDIO	S353	TEST TONE
S324	SIMULATED	S354	CENTER MODE
S325	DOLBY	S355	CENTER -
S326	FM	S356	CENTER +
S327	AM	S357	3ch
S328	TUNING -	S358	VDP
S329	TUNING +	S359	CD
S330	MEMORY		



- SP SW assembly**
- S360
- SP A ON-OFF/SP B ON-OFF/CENTER-REAR ON-OFF
- S1 VOLTAGE SELECTOR(SD TYPE ONLY)
220-240V / 110-127V
- S3 VOLTAGE SELECTOR(SD TYPE ONLY)
110V / 120-127V / 220V / 240V
- S4 75μS - 50μS (SD TYPE ONLY)

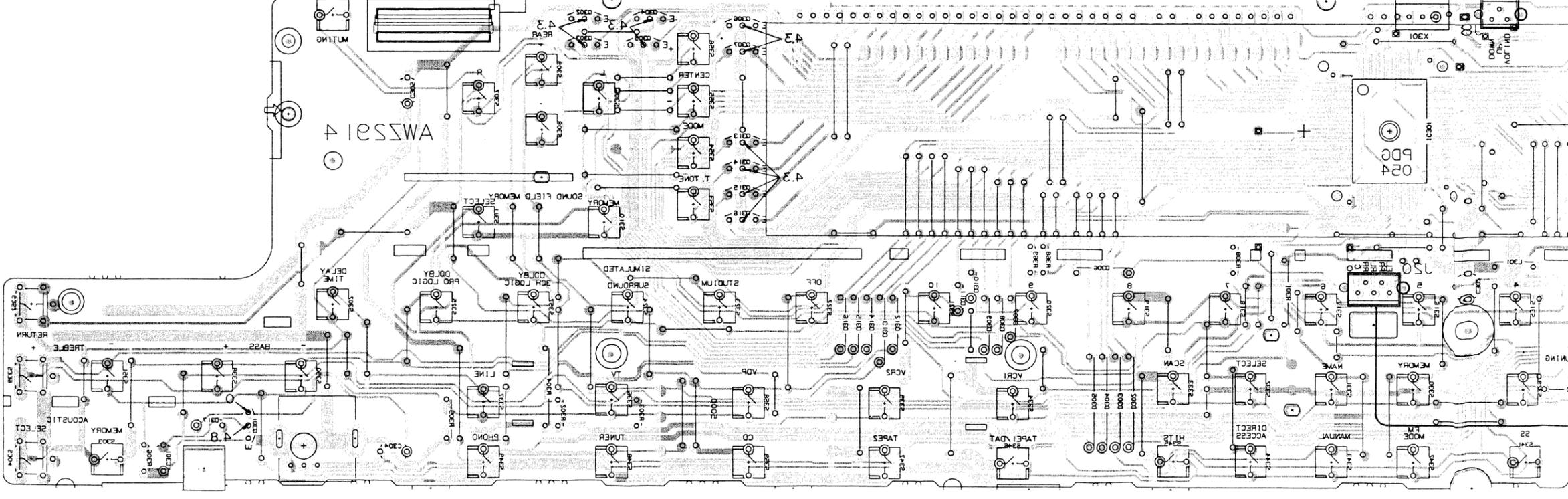
The underline indicates the switch position

4 2 e 8

IC301

0313-0316
0305-0307

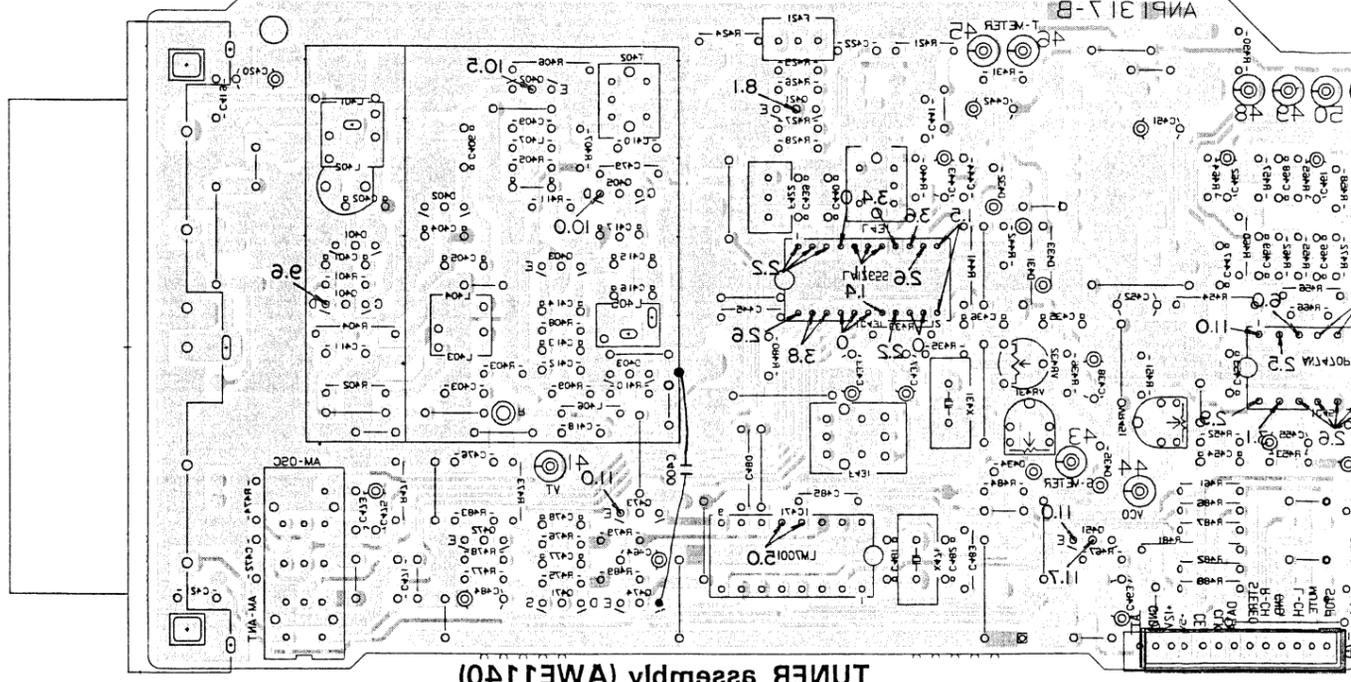
0301



AWSSA14

To VOL assembly 18
(To page 38)

TUNER assembly (AWE1140)



VR421 VR432 VR431

IC421 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

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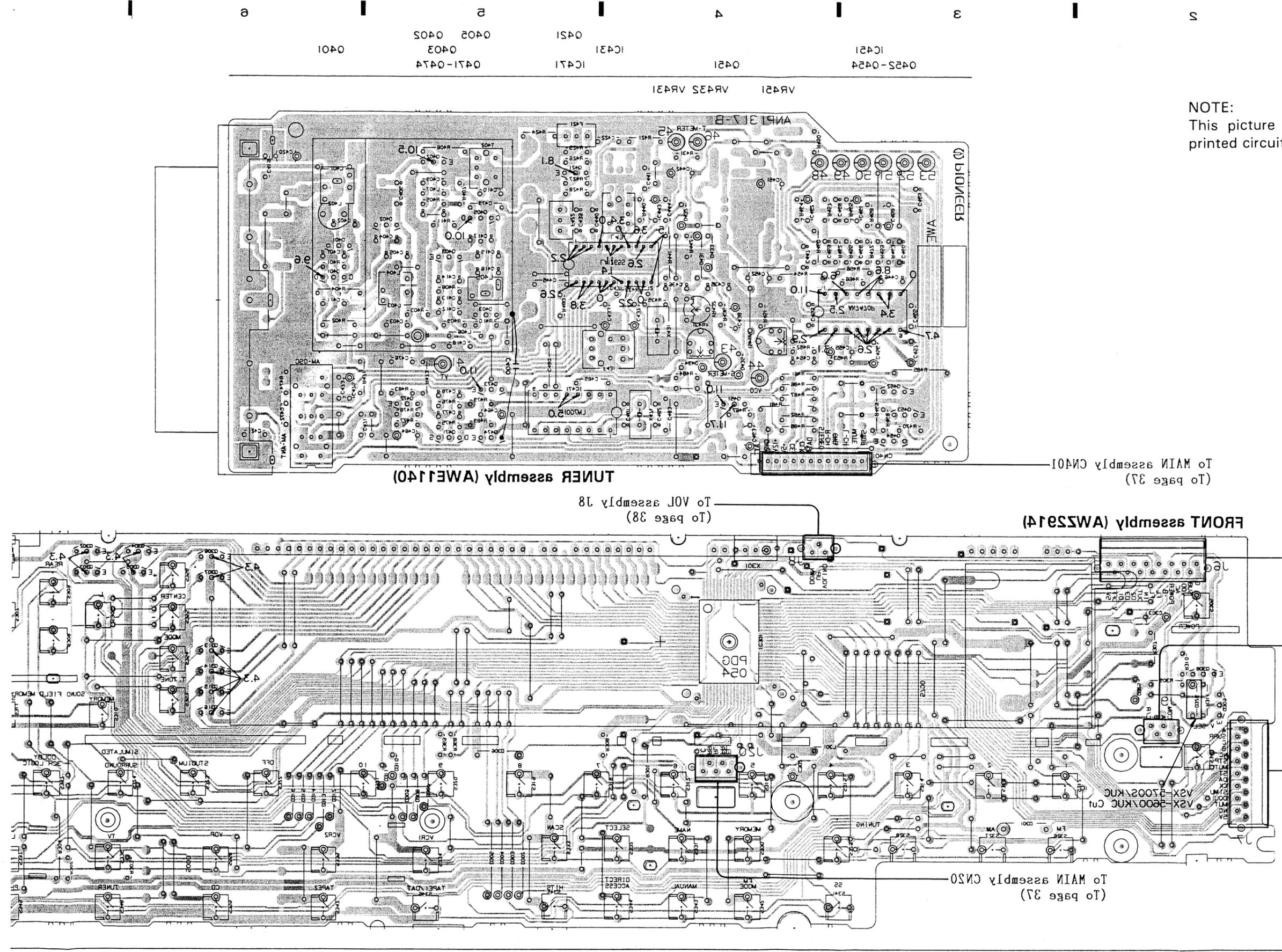
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IC421

0411-0414
0403
0402 0405

0401

4 2 e 8

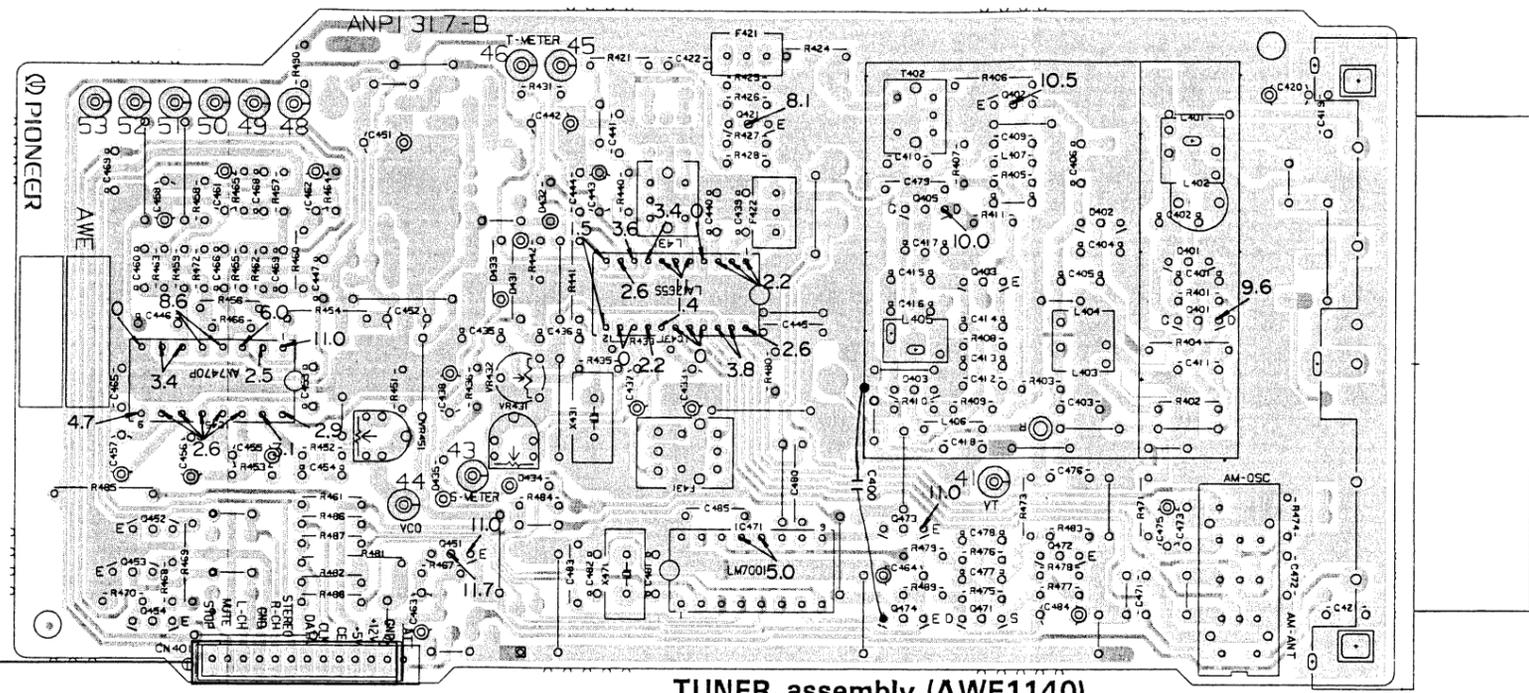


NOTE:
This picture shows the foil side of the printed circuit.

3.2 TUNER (AWE1140) and FRONT assembly (AWZ2914)

IC451 0452-0454 IC431 0451 IC471 0471 Q421 0405 Q402 Q403 Q401

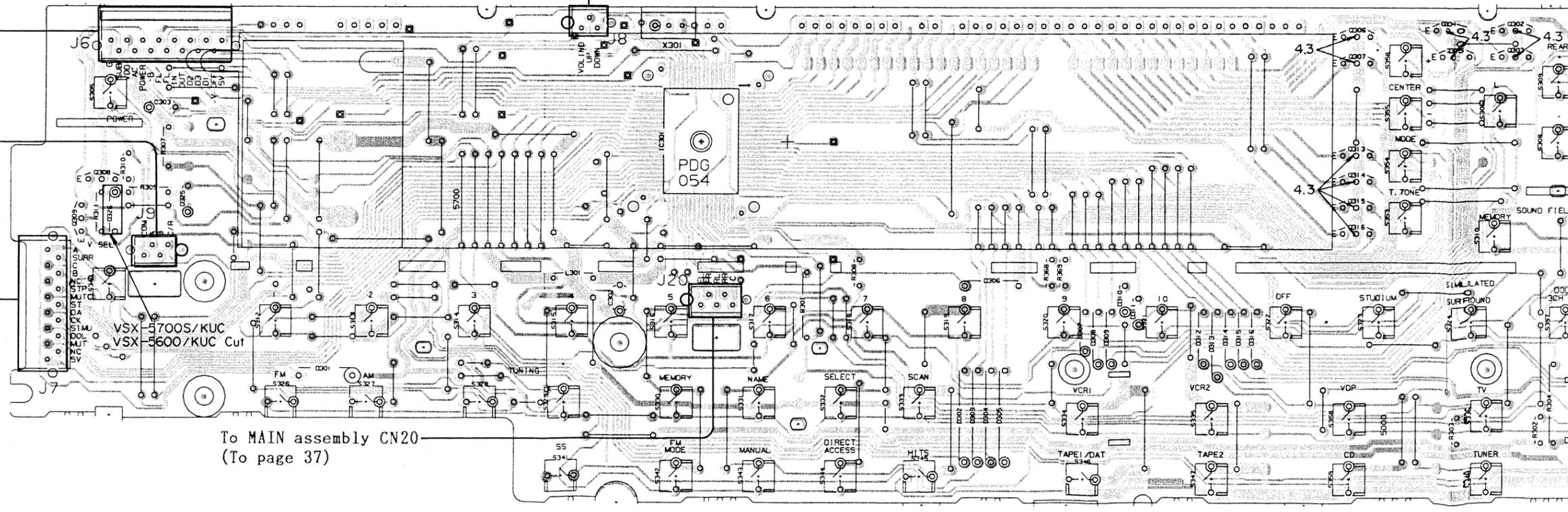
VR451 VR432 VR431



TUNER assembly (AWE1140)

To MAIN assembly CN401
(To page 37)

FRONT assembly (AWZ2914)



To VOL assembly J8
(To page 38)

To MAIN assembly CN6
(To page 36)

To SP SW assembly CN9
(To page 33)

To MAIN assembly CN7
(To page 37)

To MAIN assembly CN20
(To page 37)

Q309 Q308

IC301

Q302-Q301
Q313-Q316

IC451
-Q454

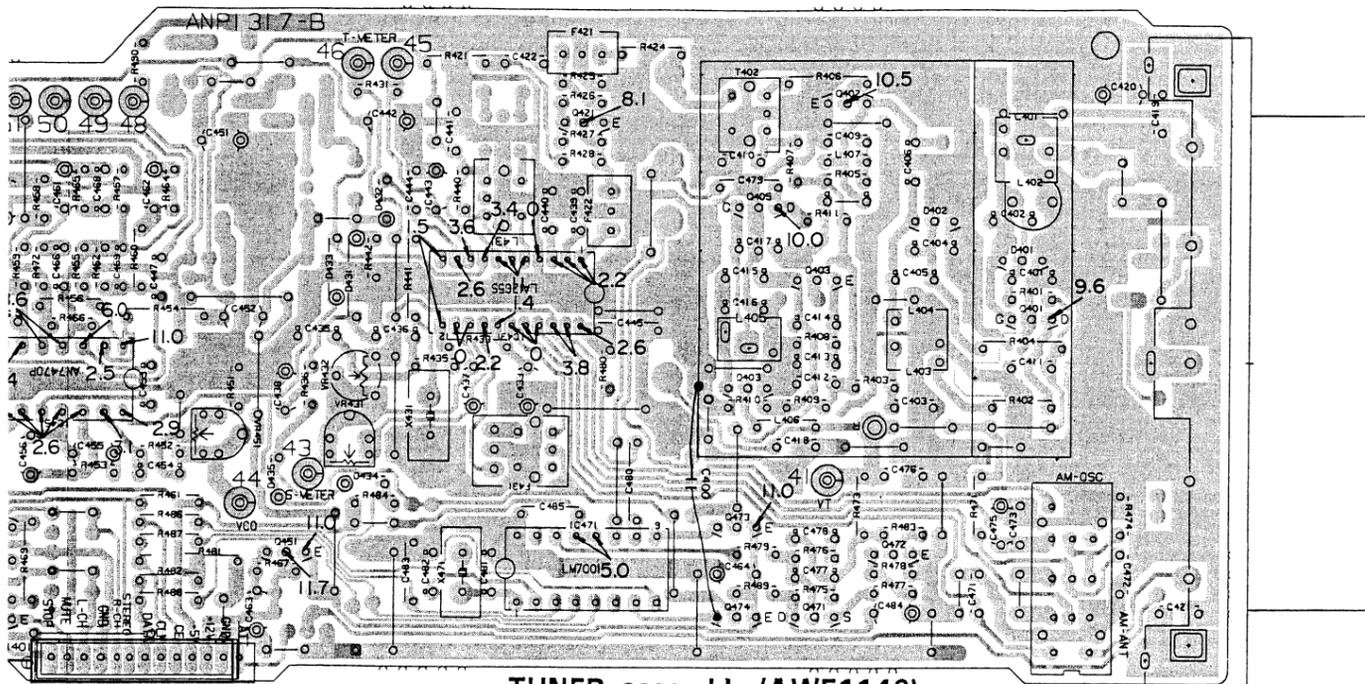
Q451

Q421
IC431
IC471

Q405 Q402
Q403
Q471-Q474

Q401

VR451 VR432 VR431



TUNER assembly (AWE1140)

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.

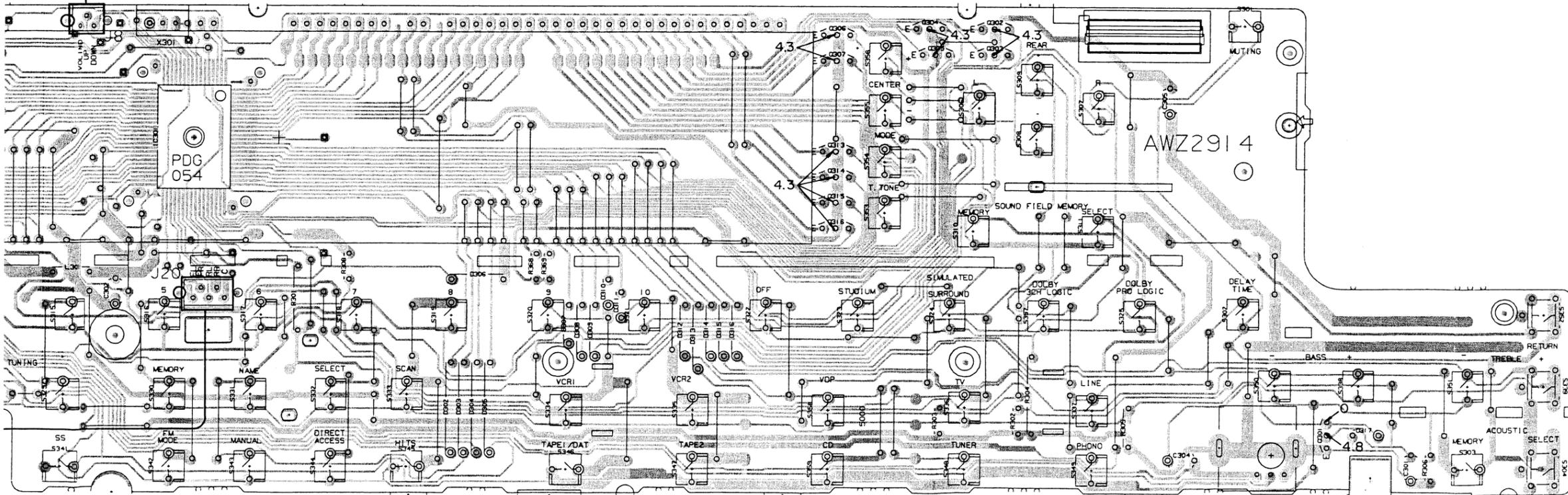
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

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 VOL assembly J8
(To page 38)



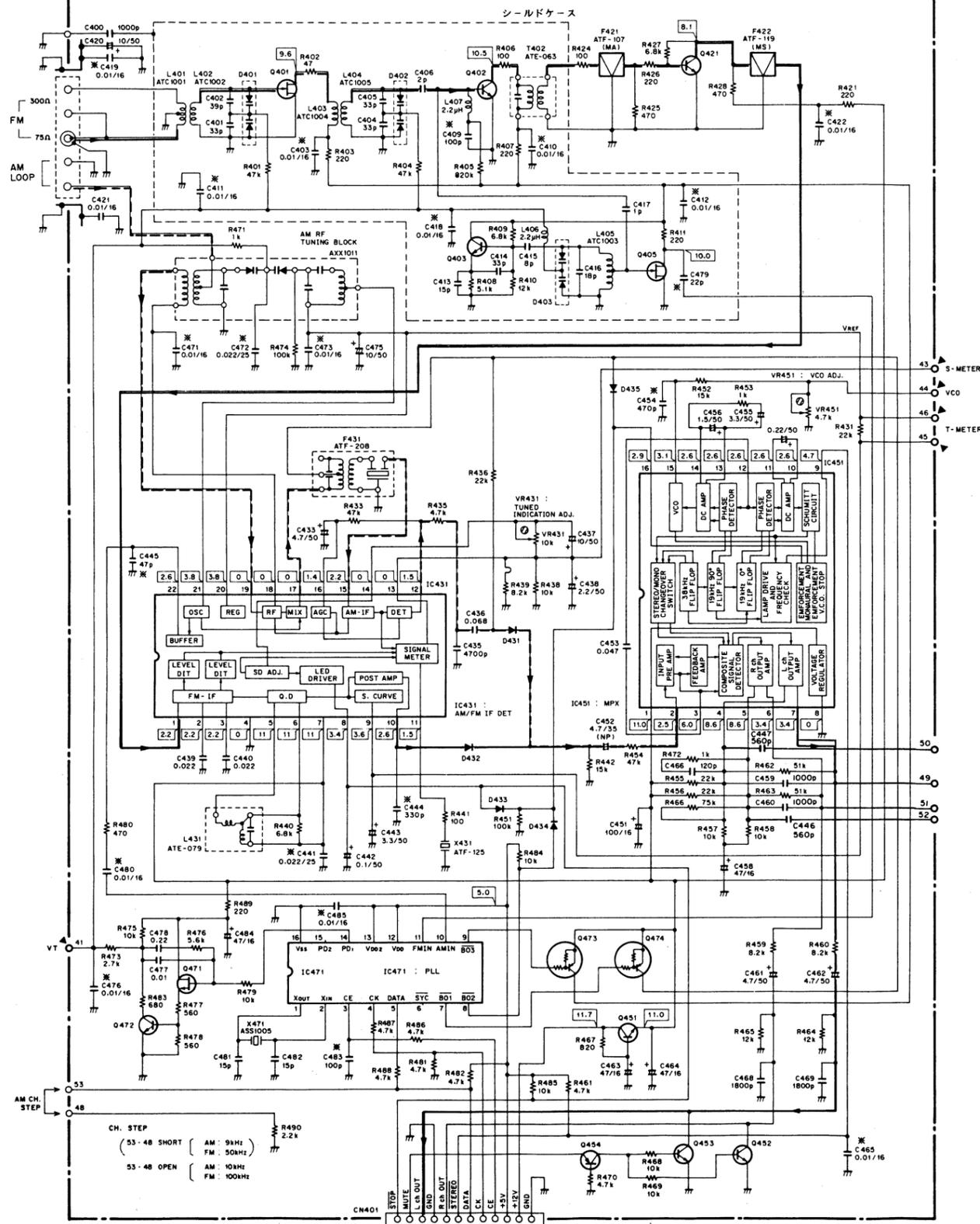
IC301

Q302-Q307
Q313-Q316

Q301

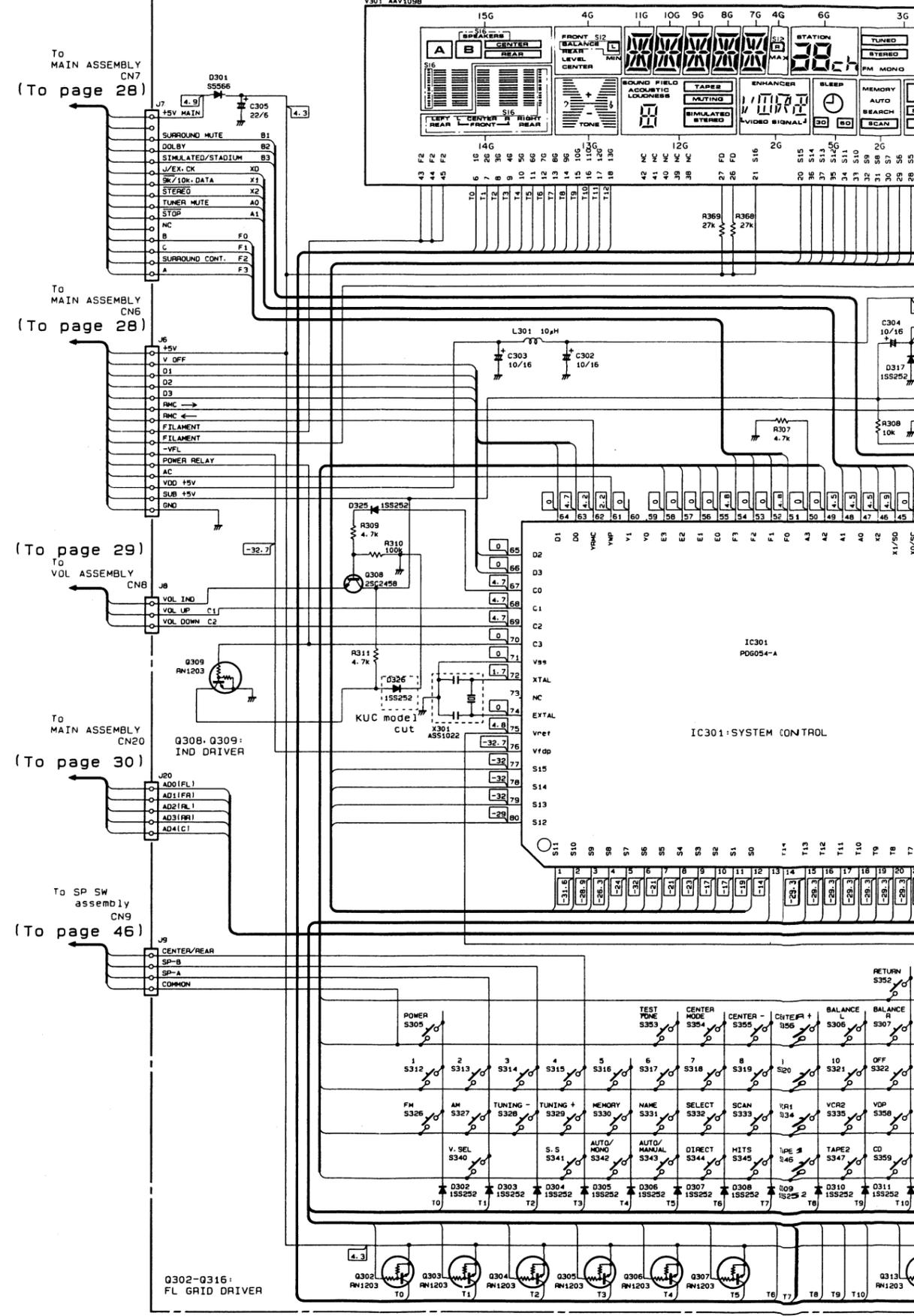
IC451	AN7470P	Q472	2SC1740SLN	D431-D435	1SS252
IC431	LA1265S	Q451	2SC2603	D401-D403	1SV147
IC471	LM7001	Q403,Q421	2SC2668		
		Q402	2SC2786		
		Q405	2SK161		
Q473,Q474	RN2201	Q401	2SK241		
Q454	2SA933S	Q471	2SK246		
Q452,Q453	2SC1740S				

TUNER ASSEMBLY (AWE1140)

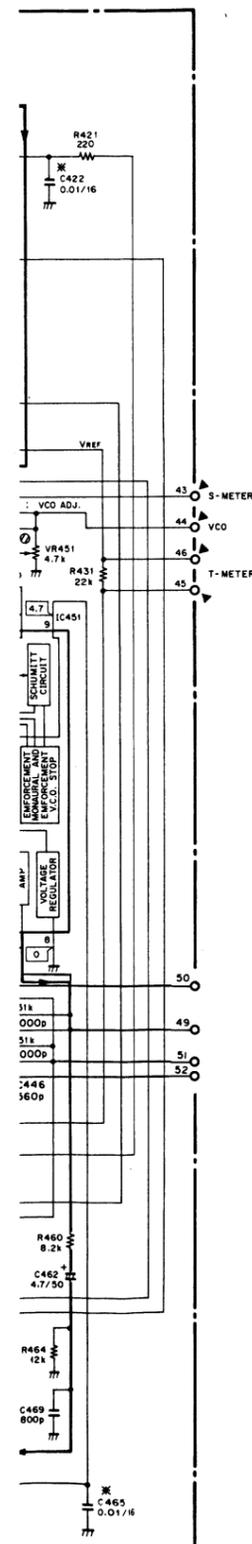
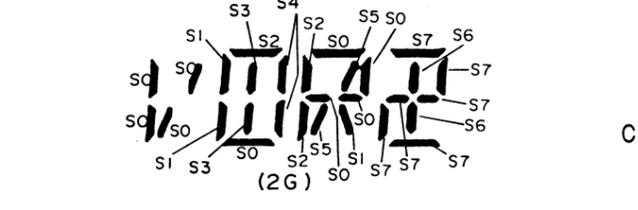
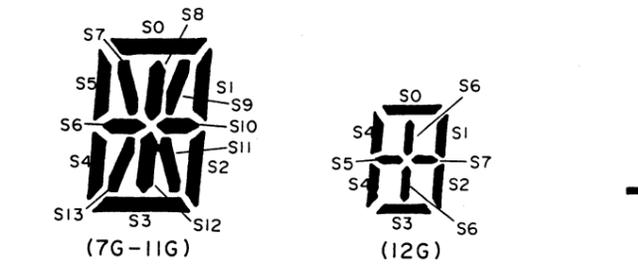
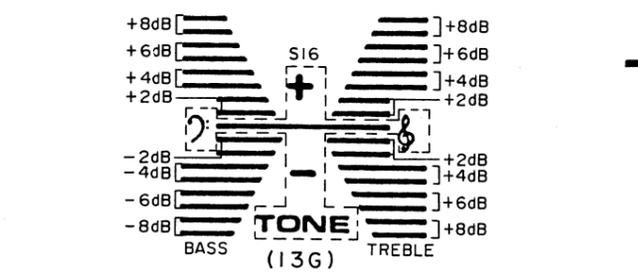
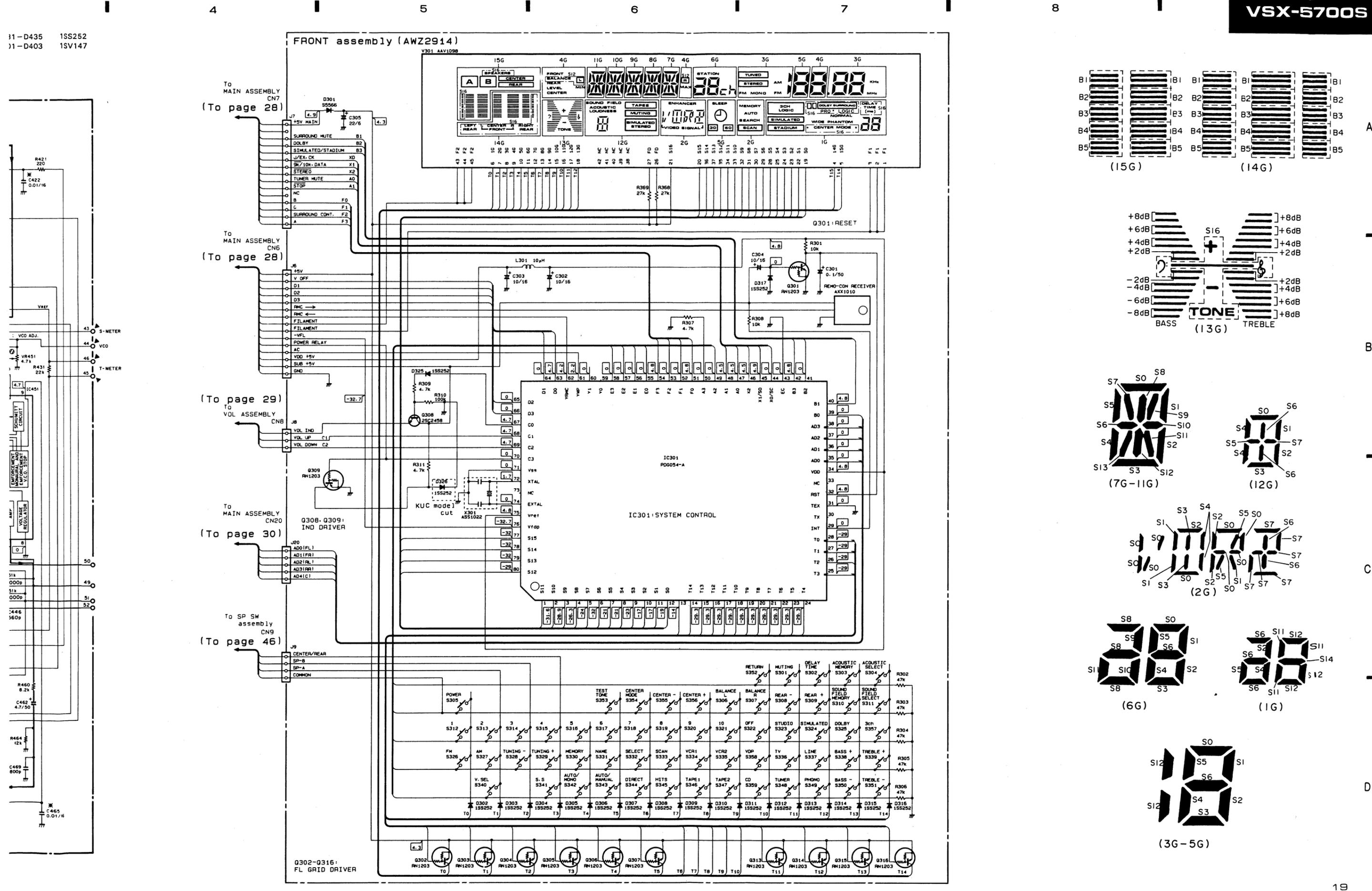


To MAIN ASSEMBLY (To page 28)

FRONT assembly (AWZ2914)



Q302-Q316 FL GRID DRIVER

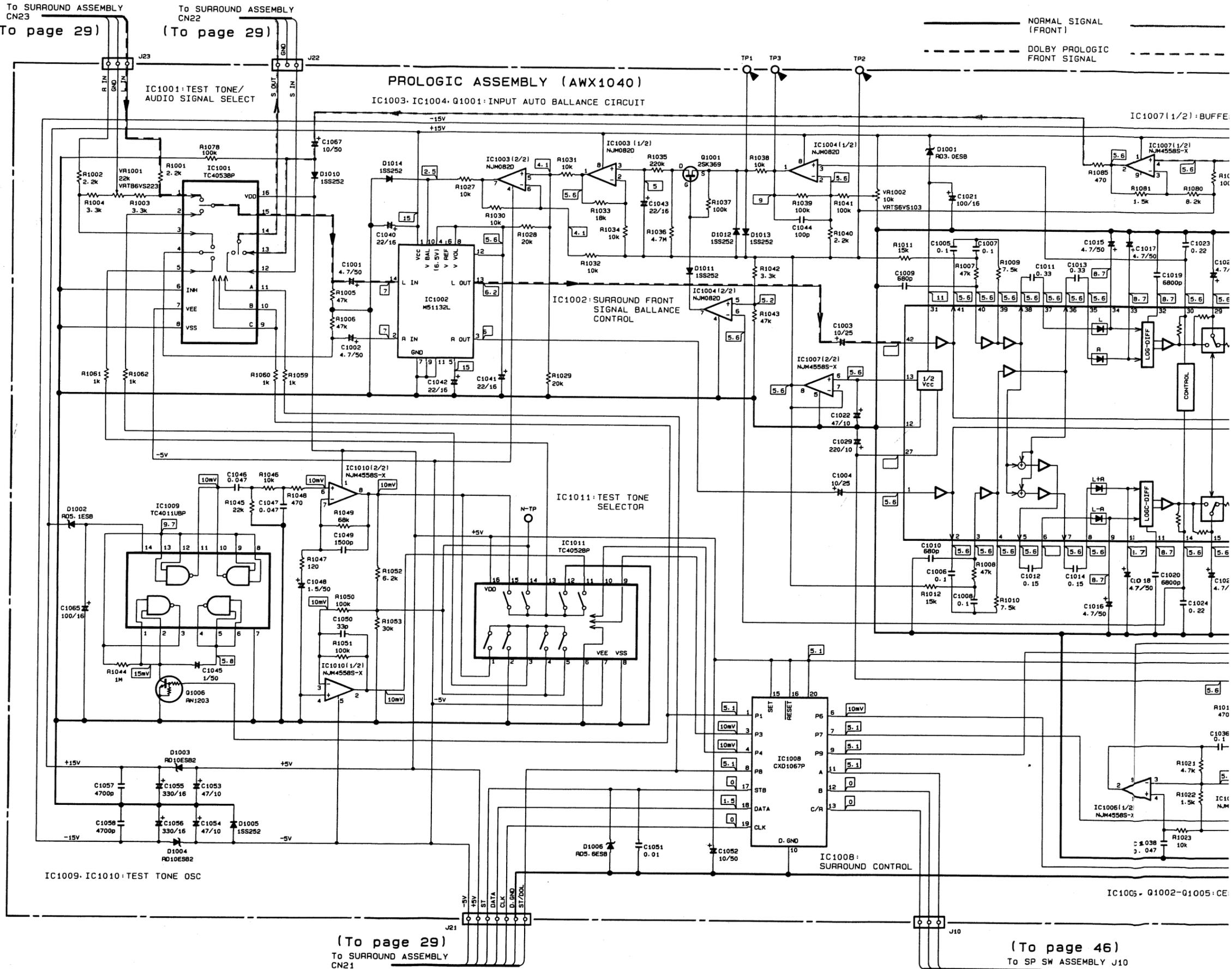


3.3 PRO LOGIC assembly (AWX1040)

To SURROUND ASSEMBLY CN23 (To page 29)

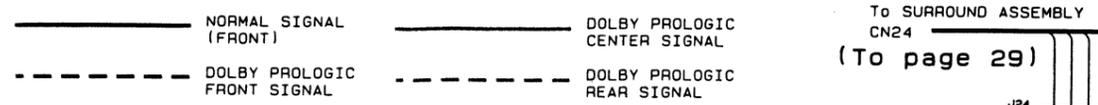
To SURROUND ASSEMBLY CN22 (To page 29)

NORMAL SIGNAL (FRONT)
DOLBY PROLOGIC FRONT SIGNAL



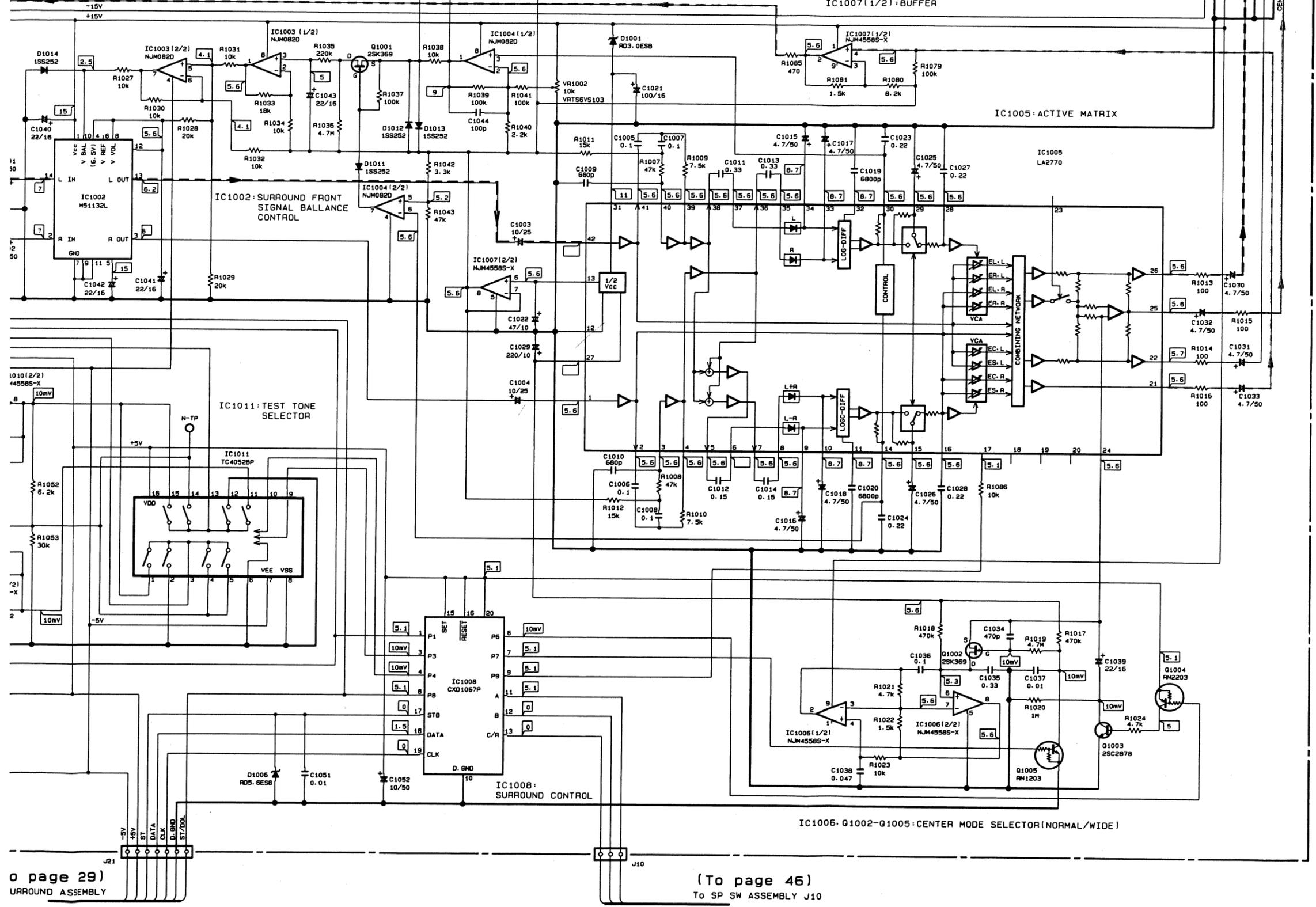
(To page 29)
To SURROUND ASSEMBLY CN21

(To page 46)
To SP SW ASSEMBLY J10



PROLOGIC ASSEMBLY (AWX1040)

IC1003, IC1004, Q1001: INPUT AUTO BALANCE CIRCUIT



o page 29)
URROUND ASSEMBLY

(To page 46)
To SP SW ASSEMBLY J10

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.

A

B

C

D

To SURROUND assembly CN21
(To page 38)

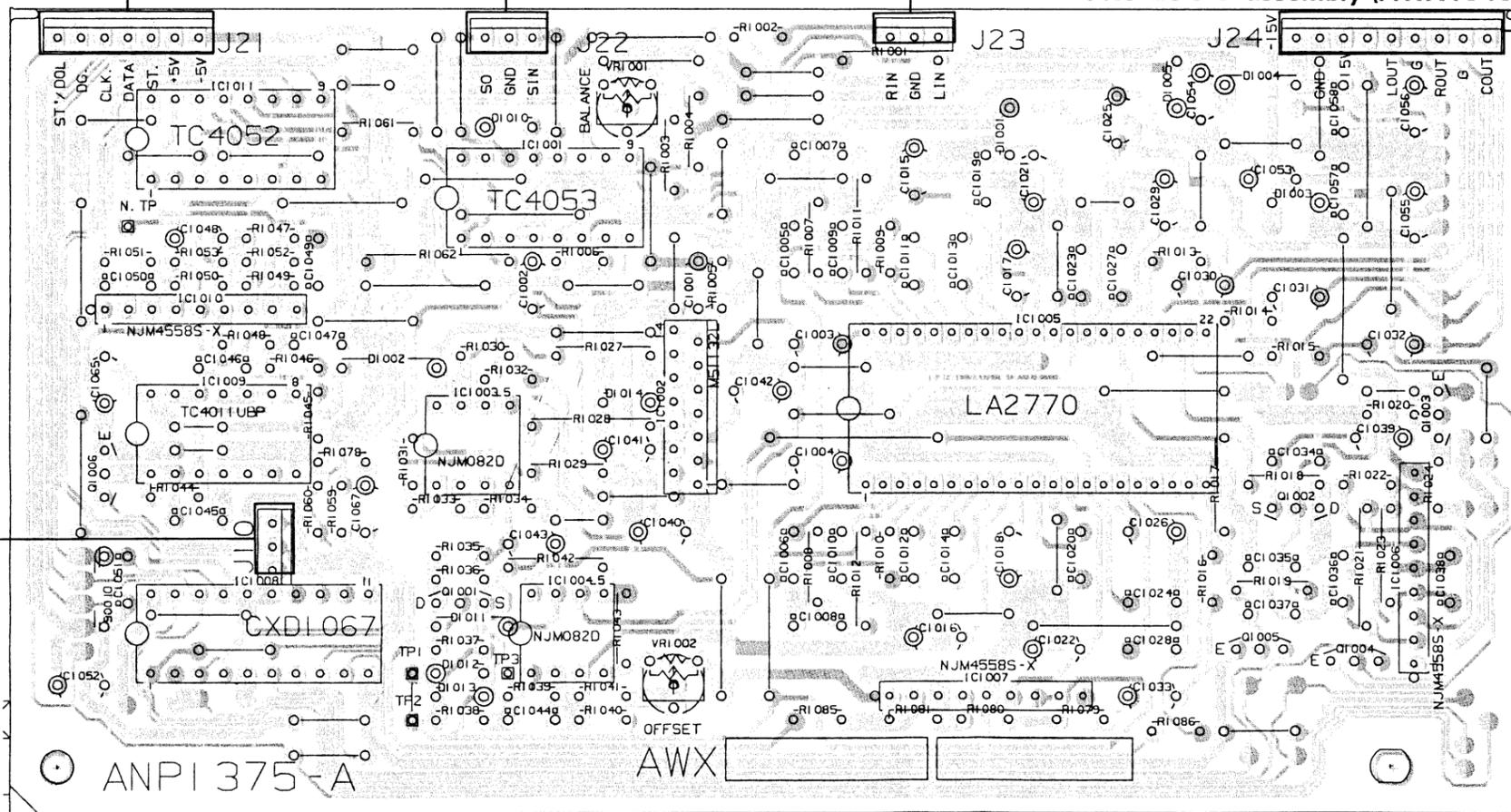
To SURROUND assembly CN22
(To page 38)

To SURROUND assembly CN23
(To page 38)

PRO LOGIC assembly (AWX1040)

To SURROUND assembly CN24
(To page 38)

To SP SW assembly CN10
(To page P33)



VR1001 VR1002

Q1006 ICI011 ICI001 Q1002 Q1003
 ICI010 ICI009 ICI003 ICI002 ICI005 Q1005 Q1004 ICI006
 ICI008 Q1001 ICI004 ICI007

A

B

C

D

SURROUND
embly CN24
page 38)

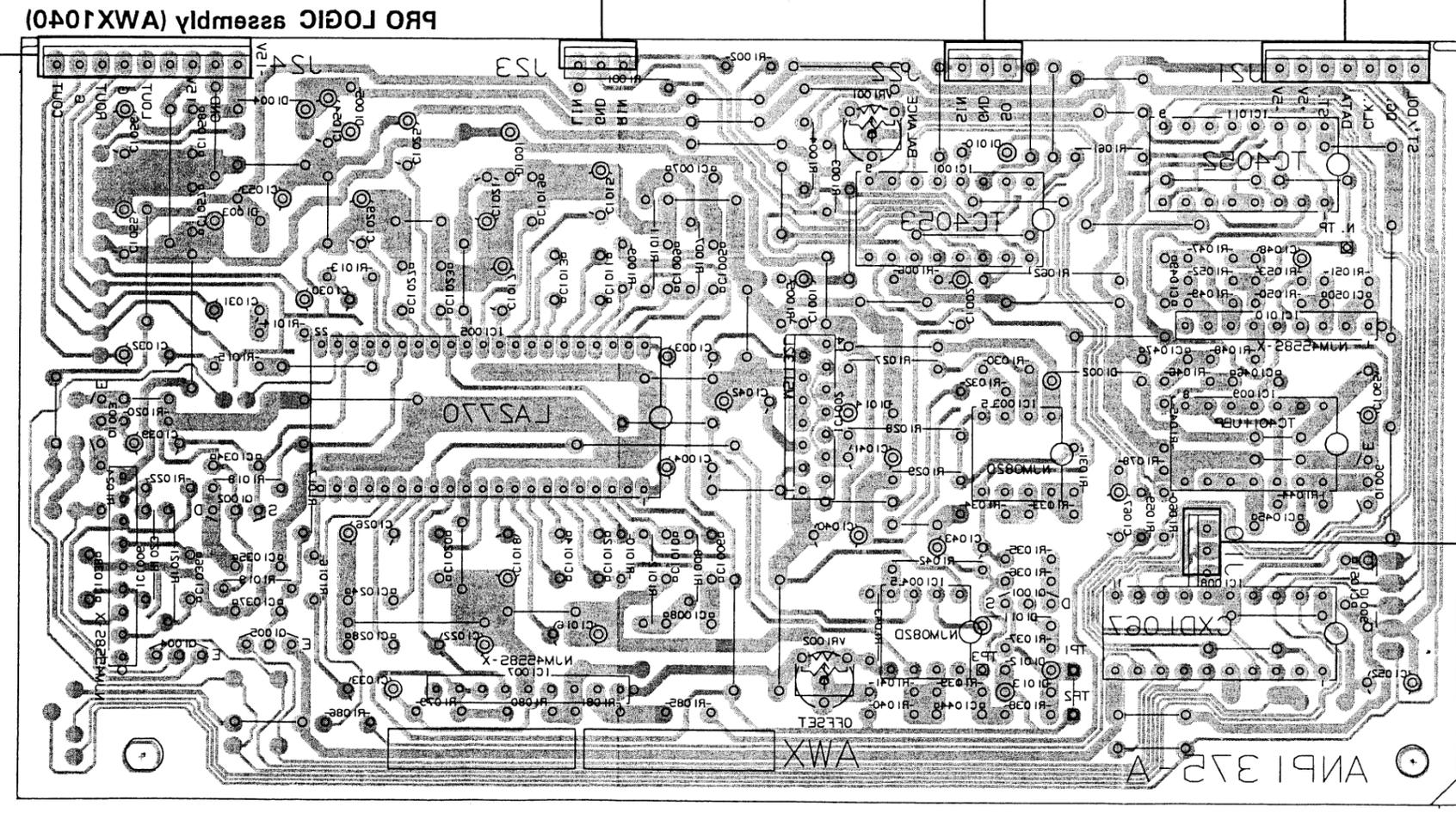
To SURROUND
assembly CN24
(To page 38)

To SURROUND assembly
CN23 (To page 38)

To SURROUND assembly CN22
(To page 38)

To SURROUND assembly CN21
(To page 38)

To 2P SW assembly
CN10 (To page P33)



IC1008 IC1010 IC1009 IC1011
 IC1001 IC1003 IC1004 IC1005
 IC1002 IC1007
 IC1003 IC1004 IC1005
 IC1002 IC1003 IC1004 IC1005
 IC1002 IC1003 IC1004 IC1005

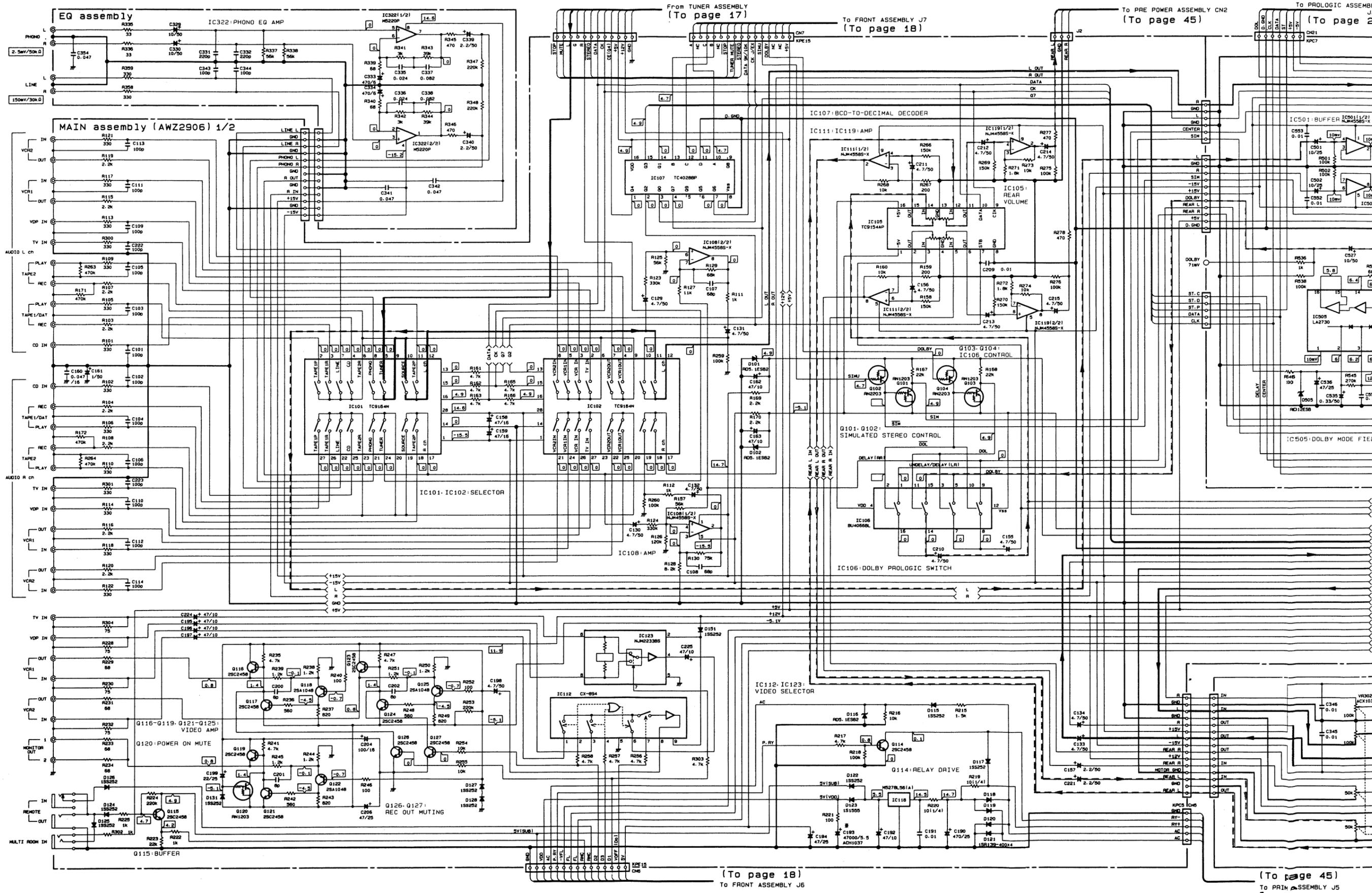
3.4 MAIN (AWZ2906)(1/2), EQ, SURROUND (AWX1039) and VOL assembly

A

B

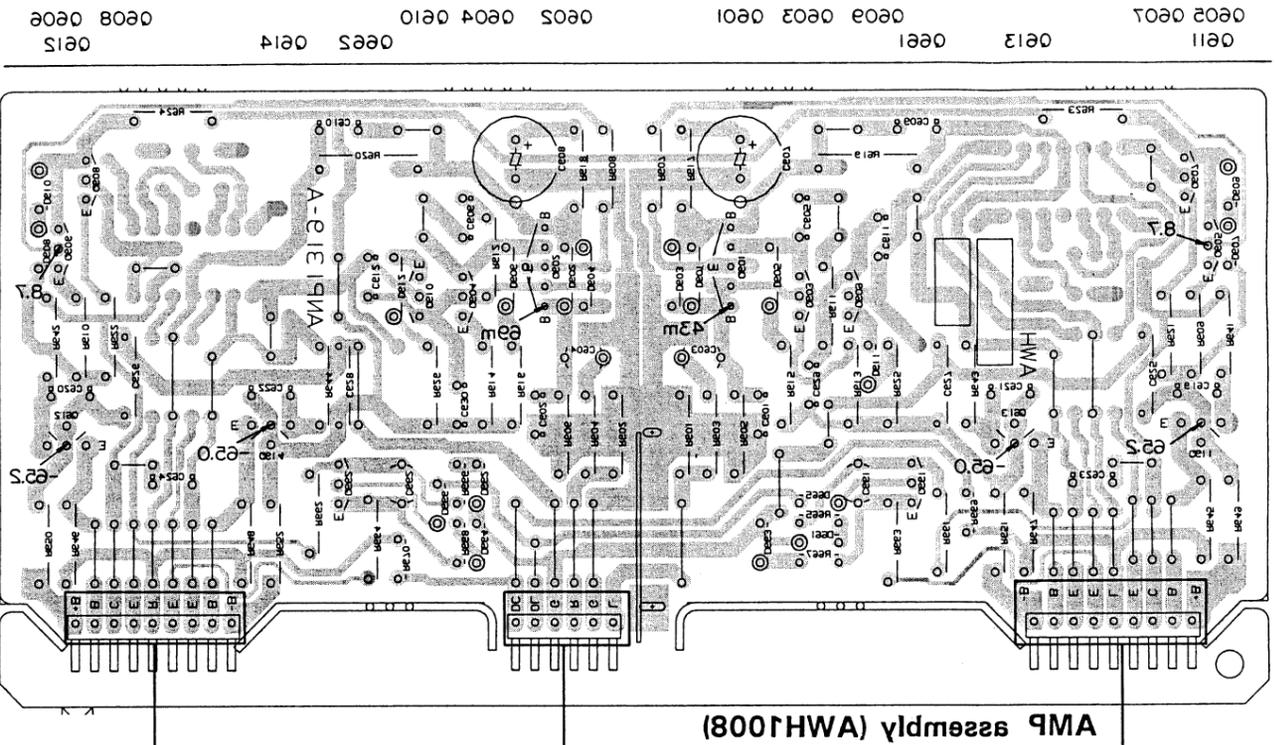
C

D

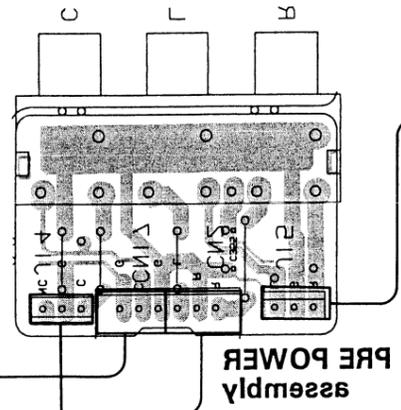
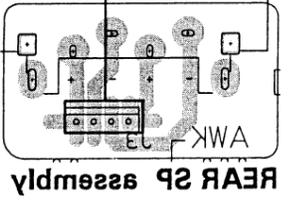
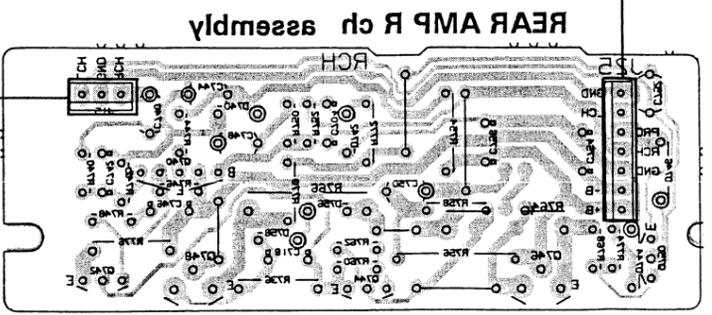
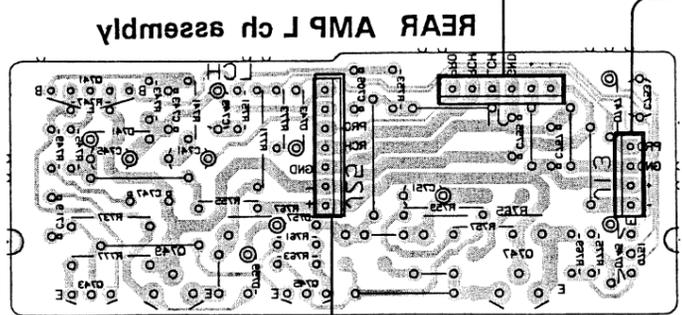
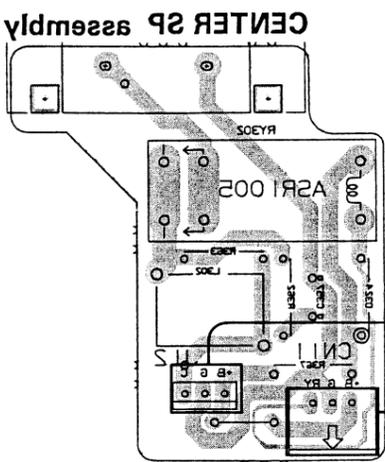
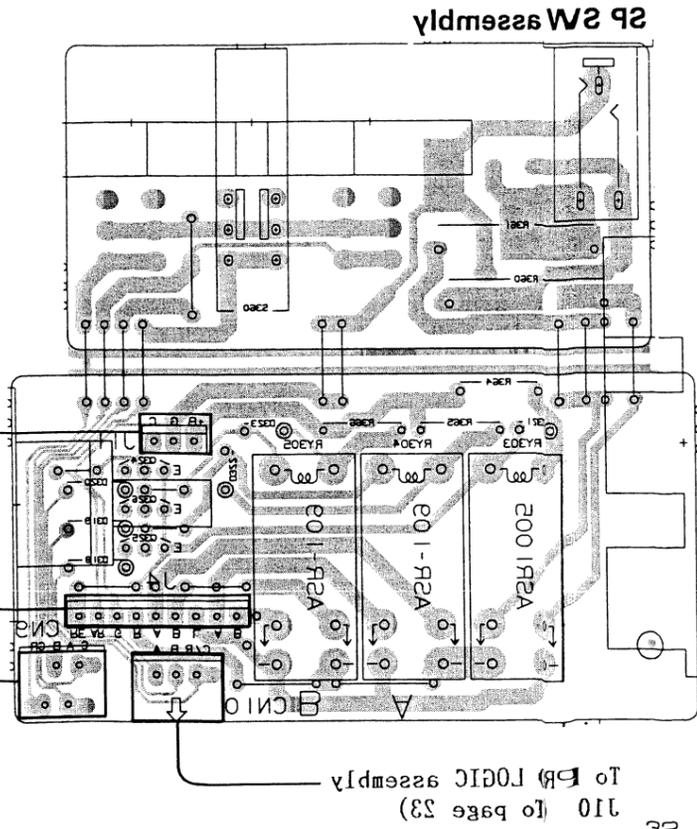
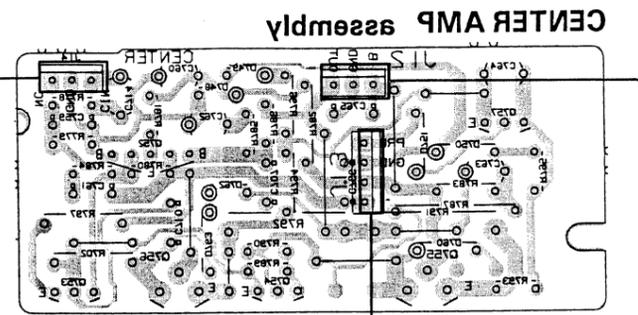


(To page 18)

(To page 45)



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



To FRONT assembly 19
(To page 14)

To PR LOGIC assembly 110
(To page 23)

A
B
A

C
D

e
2
4
3
5
1

Q605 Q607 Q609 Q603 Q601 Q602 Q604 Q610 Q608 Q606
 Q611 Q613 Q661 Q662 Q614 Q612

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.

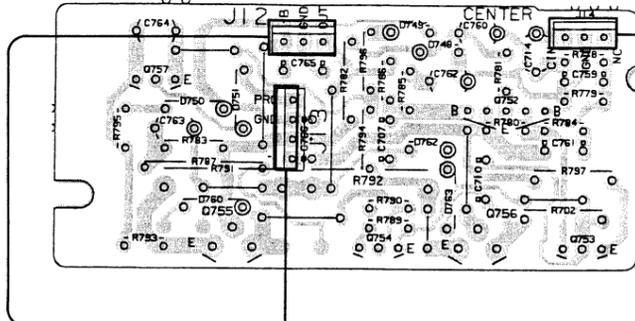
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

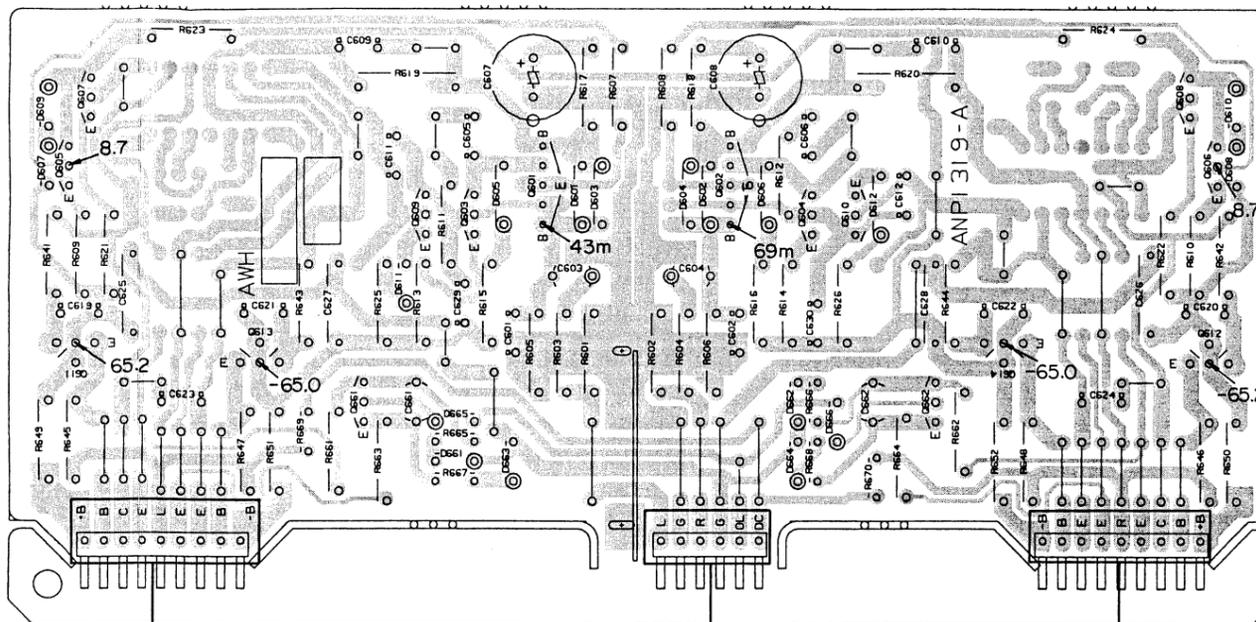
P.C.B. pattern diagram indication	Part Name
	IC
	Switch
	Relay
	Coil
	Filter
	Variable resistor or Semi-fixed resistor

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.

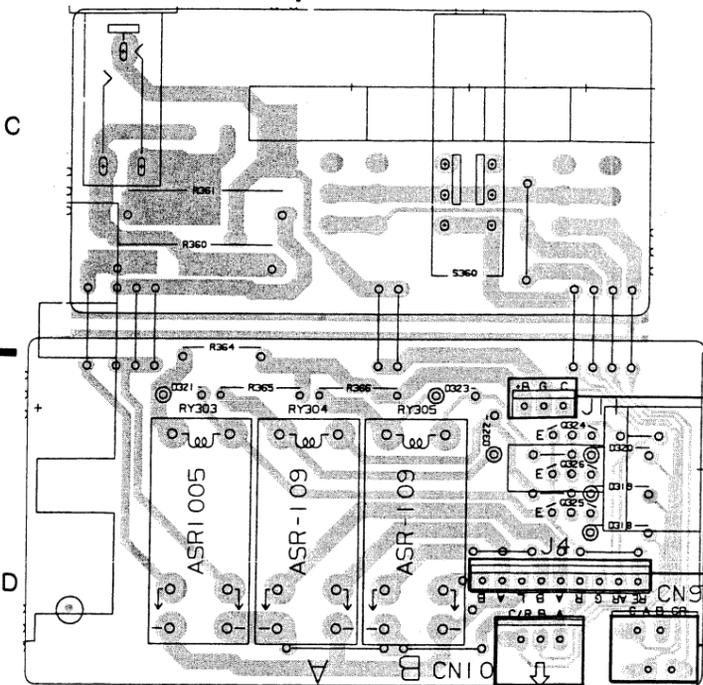
CENTER AMP assembly



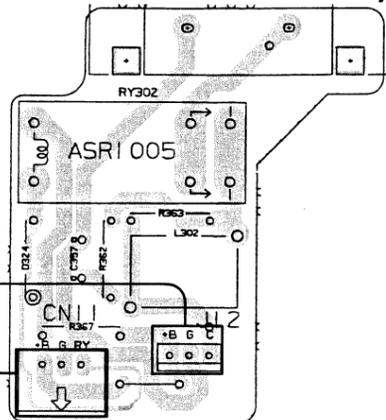
AMP assembly (AWH1008)



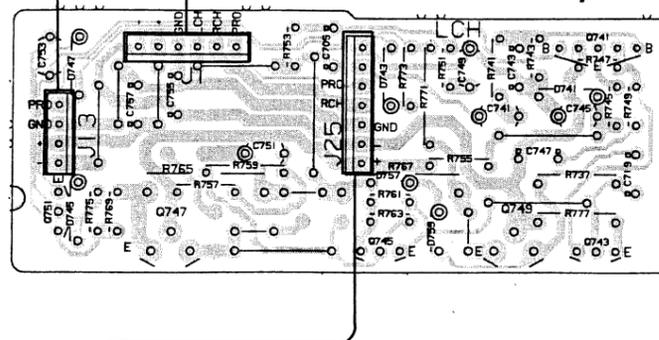
SP SW assembly



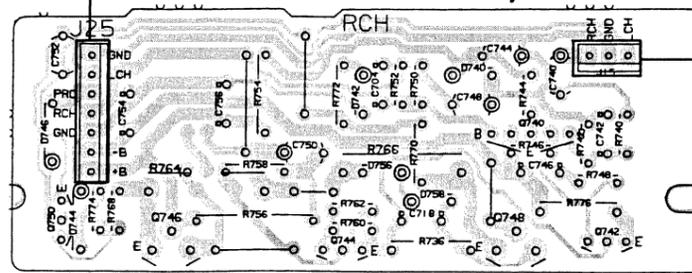
CENTER SP assembly



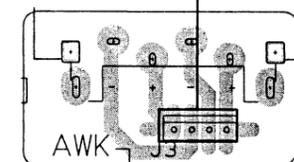
REAR AMP L ch assembly



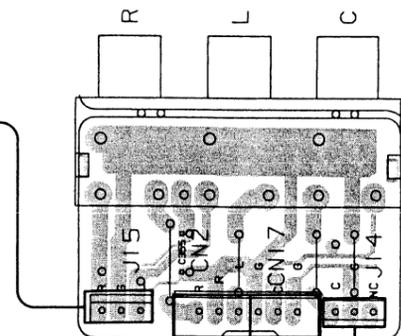
REAR AMP R ch assembly



REAR SP assembly



PRE POWER assembly

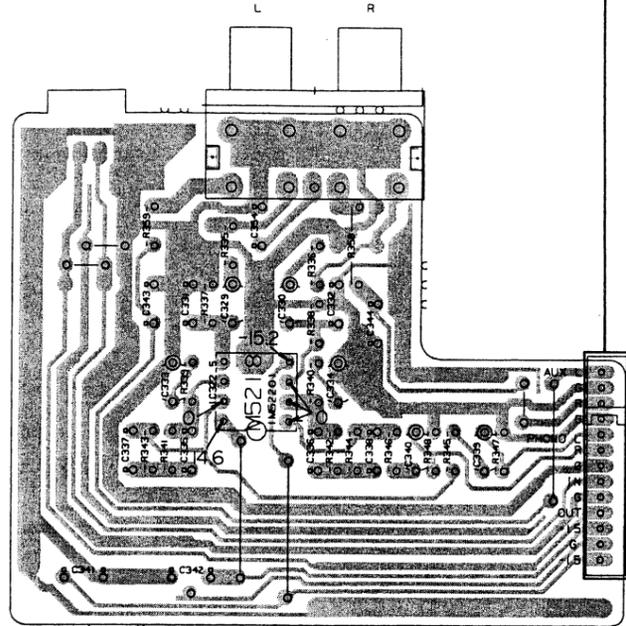


To PRO LOGIC assembly
 J10 (To page 23)

To FRONT assembly J9
 (To page 14)

1 2 3 4 5 6

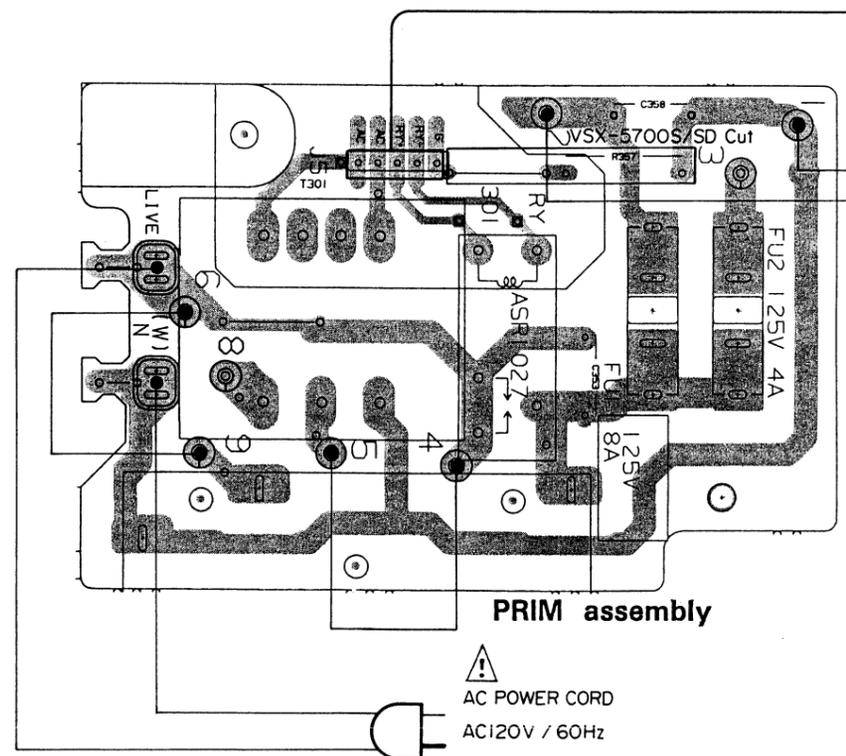
A



B

EQ assembly

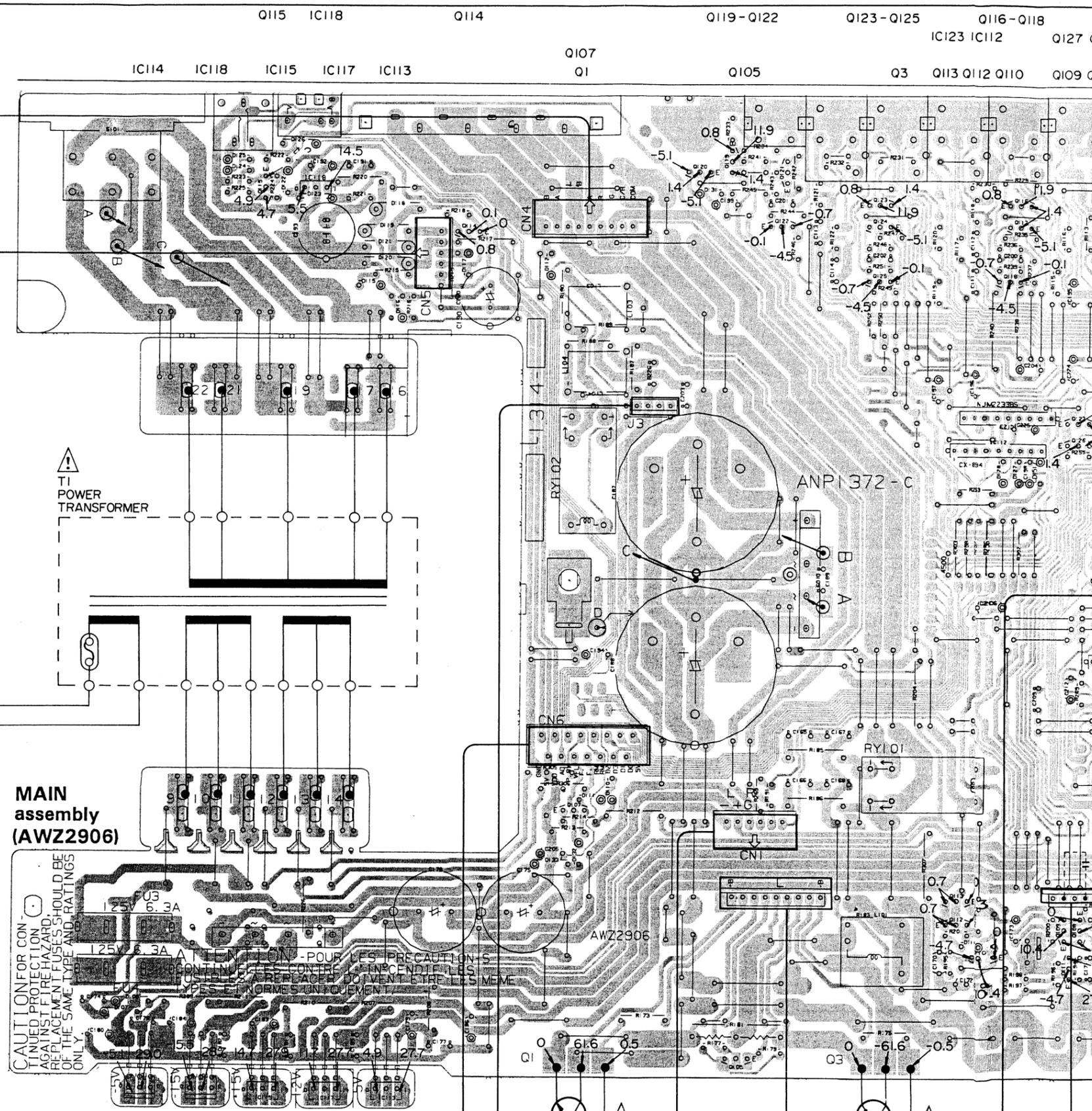
A



D

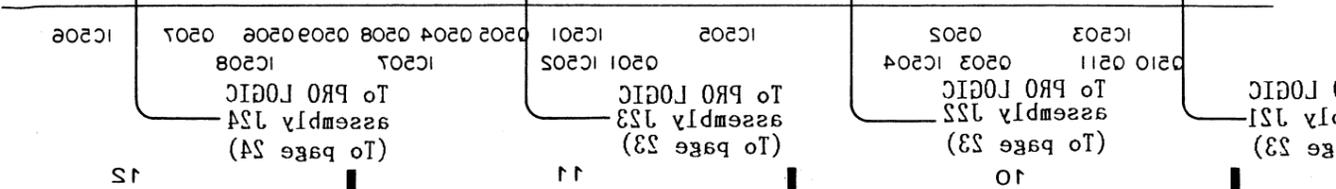
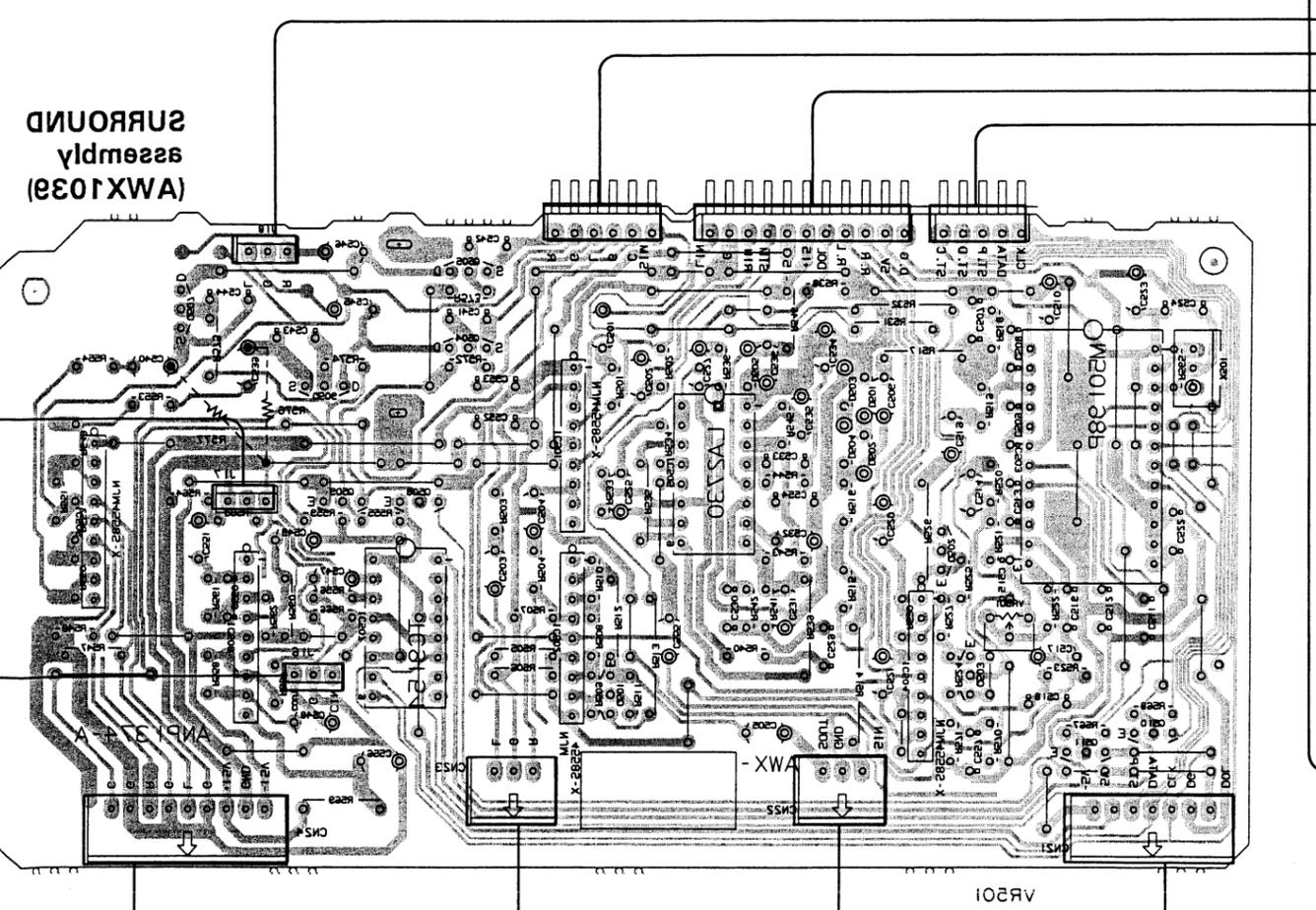
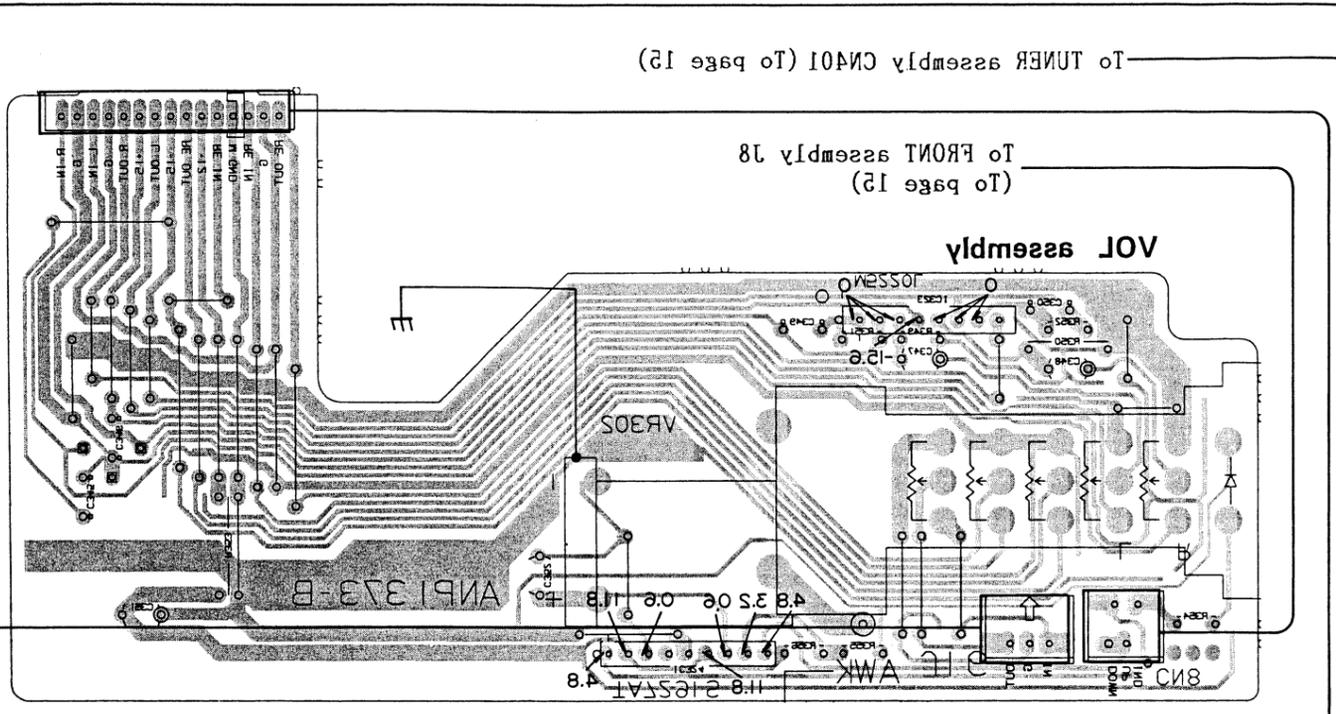
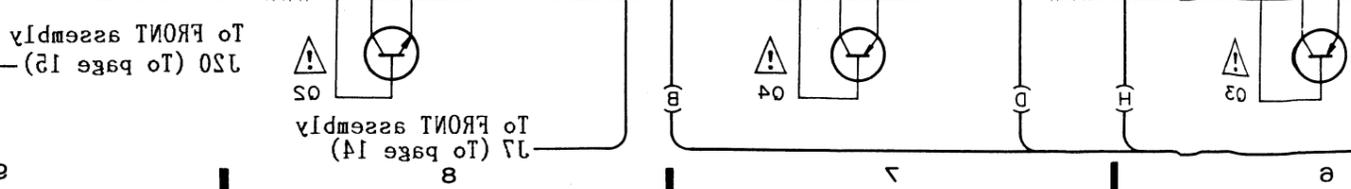
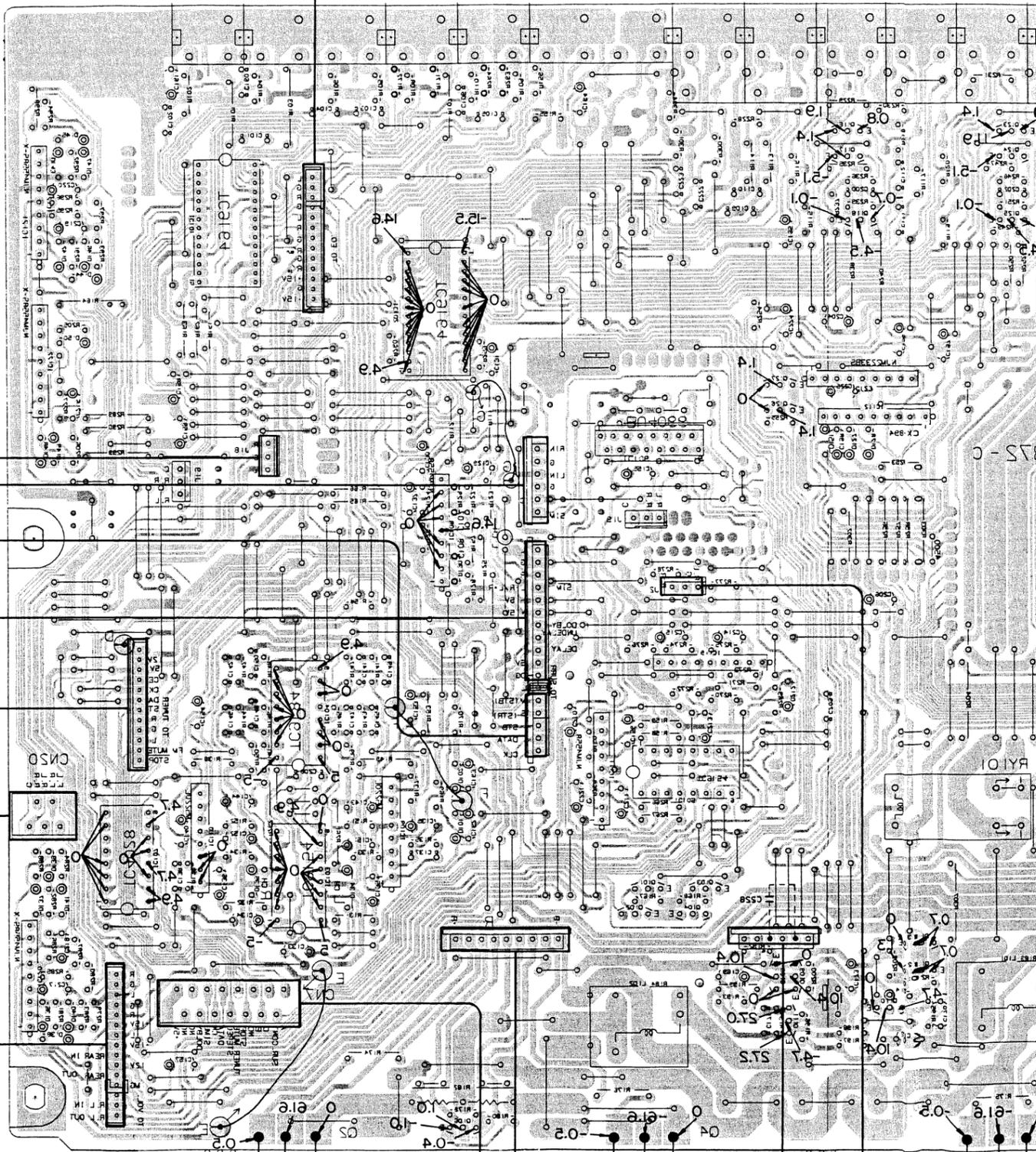
AC POWER CORD
AC120V / 60Hz

To FRONT assembly J6
(To page 14)



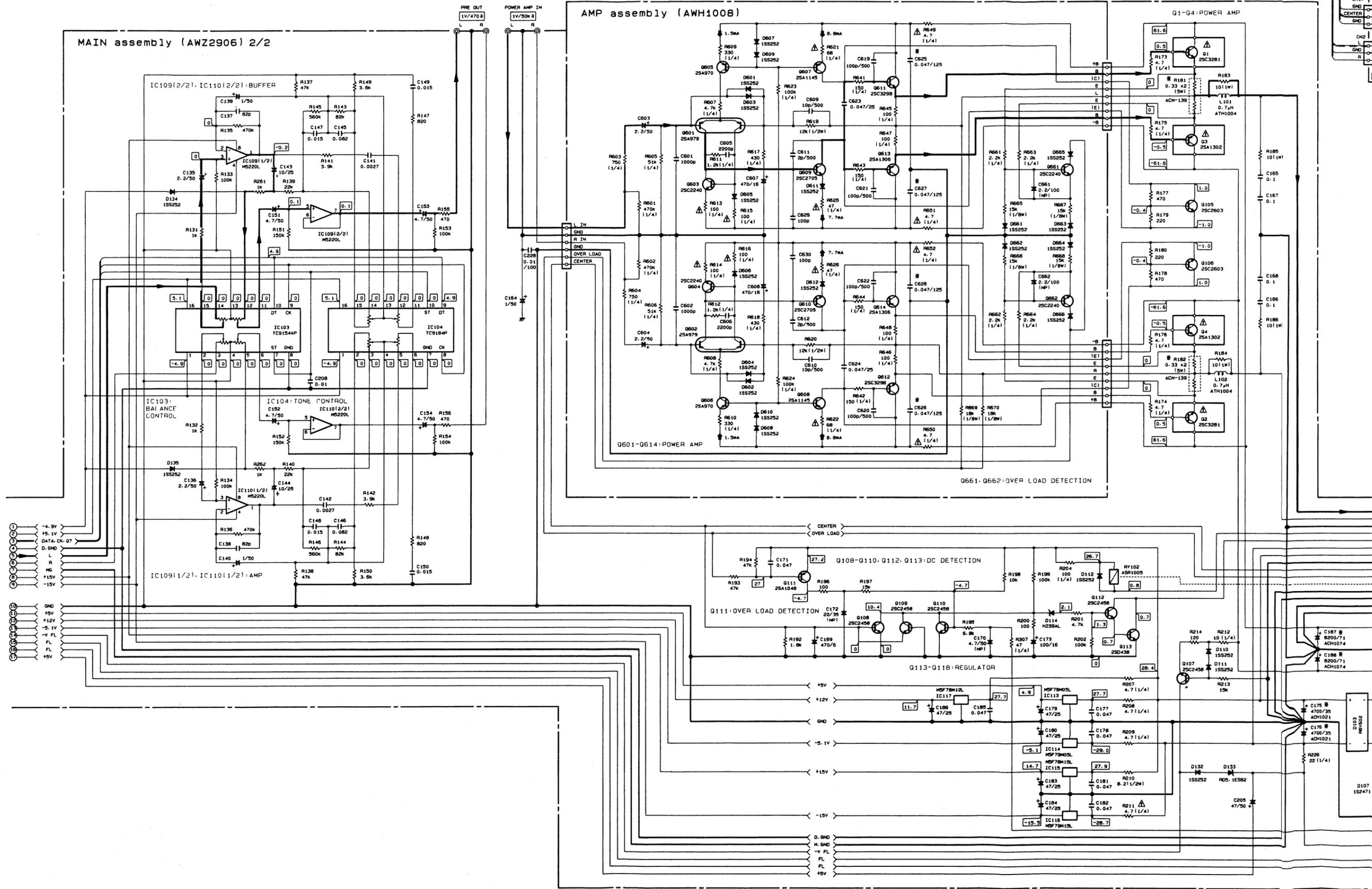
1 2 3 4 5 6

IC153 IC115
IC152 IC114
IC151 IC113
IC150 IC112
IC109 IC111
IC108 IC110
IC107 IC109
IC106 IC108
IC105 IC107
IC104 IC106
IC103 IC105
IC102 IC104
IC101 IC103
IC100 IC102
IC99 IC101
IC98 IC100
IC97 IC99
IC96 IC98
IC95 IC97
IC94 IC96
IC93 IC95
IC92 IC94
IC91 IC93
IC90 IC92
IC89 IC91
IC88 IC90
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IC74 IC76
IC73 IC75
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IC14 IC16
IC13 IC15
IC12 IC14
IC11 IC13
IC10 IC12
IC9 IC11
IC8 IC10
IC7 IC9
IC6 IC8
IC5 IC7
IC4 IC6
IC3 IC5
IC2 IC4
IC1 IC3



3.5 MAIN (AWZ2906)(2/2), AMP (AWH1008), REAR SP, CENTER AMP, CENTER SP,
REAR AMP L ch, REAR AMP R ch, PRE POWER, PRIM and SP SW assembly

(To page 30) To SURROUND ASSEMBLY J17
(To page 28) To MAIN ASSEMBLY(1/2) J2



A

B

C

D

1

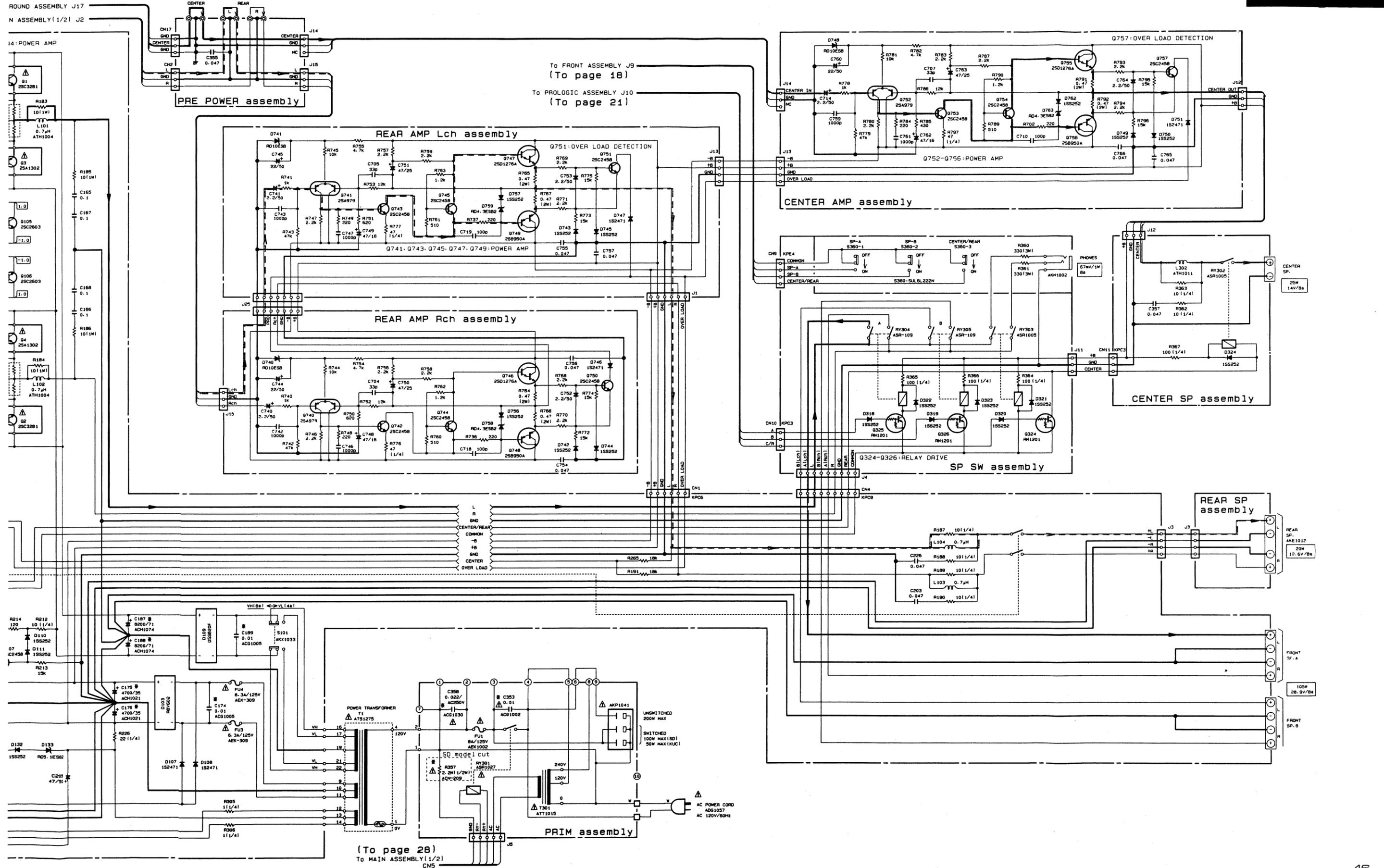
2

3

4

5

6



4. P.C.B 's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).
 560Ω 56 × 10¹ 561.....RD1/4PS ⊙ ⊙ ⊙ J
 47kΩ 47 × 10³ 473.....RD1/4PS ⊙ ⊙ ⊙ J
 0.5Ω 0R5.....RN2H ⊙ ⊙ ⊙ K
 1Ω 010.....RS1P ⊙ ⊙ ⊙ K
 Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
 5.62kΩ 562 × 10¹ 5621.....RN1/4SR ⊙ ⊙ ⊙ F

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
TUNER ASSEMBLY (AWE1,140)					
SEMICONDUCTORS					
IC431	AM/FM IC	LA1265S	C403	CERAMIC CAPACITOR	ACG1021
IC451	MPX IC	AN7470P	C404,405	CERAMIC CAPACITOR	CCDRH330J50
IC471	PLL IC	LM7001	C406	CERAMIC CAPACITOR	CCDCH020C50
Q401	MOS-FET	2SK241	C409	CERAMIC CAPACITOR	ACG1017
Q402	TRANSISTOR	2SC2786	C410-412	CERAMIC CAPACITOR	ACG1021
Q403	TRANSISTOR	2SC2668	C413	CERAMIC CAPACITOR	CCDCH150J50
Q405	N-FET	2SK161	C414	CERAMIC CAPACITOR	CCDCH330J50
Q421	TRANSISTOR	2SC2668	C415	CERAMIC CAPACITOR	CCDCH080D50
Q451	TRANSISTOR	2SC2603	C416	CERAMIC CAPACITOR	CCDTH180J50
Q452,453	TRANSISTOR	2SC1740S	C417	CERAMIC CAPACITOR	CCDCH010C50
Q454	TRANSISTOR	2SA933S	C418,419	CERAMIC CAPACITOR	ACG1021
Q471	N-FET	2SK246	C420	ELECTR.CAPACITOR	CEAS100M50
Q472	TRANSISTOR	2SC1740SLN	C421,422	CERAMIC CAPACITOR	ACG1021
Q473,474	TRANSISTOR	RN2201	C433	ELECTR.CAPACITOR	CEAS4R7M50
D401-403	VARI-CAP DIODE	1SV147	C435	CERAMIC CAPACITOR	CKCYF472Z50
D431-435	DIODE	1SS252	C436	CERAMIC CAPACITOR	CKCYX683M25
COILS & TRANSFORMER					
L401	COIL	ATC1001	C437	ELECTR.CAPACITOR	CEAS100M50
L402	COIL	ATC1002	C438	ELECTR.CAPACITOR	CEAS2R2M50
L403	COIL	ATC1004	C439,440	CERAMIC CAPACITOR	CKCYF223Z50
L404	COIL	ATC1005	C441	CERAMIC CAPACITOR	ACG1022
L405	COIL	ATC1003	C442	ELECTR.CAPACITOR	CEAS0R1M50
L406,407	AXIAL INDUCTOR	LAU2R2M	C443	ELECTR.CAPACITOR	CEAS3R3M50
L431	COIL	ATE-079	C444	CERAMIC CAPACITOR	ACG1018
T402	IF TRANSFORMER	ATE-063	C445	CERAMIC CAPACITOR	ACG1016
FILTERS					
F421	CERAMIC FILTER	ATF-107	C446,447	MYLOR FILM CAPACITOR	CQMA561K50
F422	CERAMIC FILTER	ATF-119	C451	ELECTR.CAPACITOR	CEAS101M16
F431	CERAMIC FILTER	ATF-208	C452	ELECTR.CAPACITOR	CEANP4R7M35
CAPACITORS					
C400	CERAMIC CAPACITOR	CKDYF102Z50	C453	CERAMIC CAPACITOR	CKCYF473Z50
C401	CERAMIC CAPACITOR	CCDRH330J50	C454	(470p)	ACE1039
C402	CERAMIC CAPACITOR	CCDRH390J50	C455	ELECTR.CAPACITOR	CEAS3R3M50
			C456	ELECTROLYTIC CAPACITOR	CEAS1R5M50
			C457	ELECTR.CAPACITOR	CEASR22M50

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
C458	ELECTR.CAPACITOR	CEAS470M16	IC113	REGURATOR IC	M5F78M05L
C459,460	MYLOR FILM CAPACITOR	CQMA102J50	IC114	REGURATOR IC	M5F79M05L
C461,462	ELECTR.CAPACITOR	CEAS4R7M50	IC115	REGURATOR IC	M5F78M15L
C463,464	ELECTR.CAPACITOR	CEAS470M16	IC116	REGURATOR IC	M5F79M15L
C465	CERAMIC CAPACITOR	ACG1021	IC117	REGURATOR IC	M5F78M12L
C466	CERAMIC CAPACITOR	CCCSL121J50	IC118	REGURATOR IC	M5278L56(A)
C468,469	MYLOR FILM CAPACITOR	CQMA182J50	IC119-122	OP-AMP IC	NJM4558S-X
C471	CERAMIC CAPACITOR	ACG1021	IC123	E-SW IC	NJM2233BS
C472	CERAMIC CAPACITOR	ACG1022	Q101	TRANSISTOR	RN1203
C473	CERAMIC CAPACITOR	ACG1021	Q102	TRANSISTOR	RN2203
C475	ELECTR.CAPACITOR	CEAS100M50	Q103	TRANSISTOR	RN1203
C476	CERAMIC CAPACITOR	ACG1021	Q104	TRANSISTOR	RN2203
C477	CERAMIC CAPACITOR	CKCYF103Z50	Q105,106	TRANSISTOR	2SC2603
C478	AUDIO FILM CAPACITOR	CFTXA224J50	Q107-110	TRANSISTOR	2SC2458
C479	CERAMIC CAPACITOR	ACG1025	Q111	TRANSISTOR	2SA1048
C480	CERAMIC CAPACITOR	ACG1021	Q112	TRANSISTOR	2SC2458
C481,482	CERAMIC CAPACITOR	CCDCH150J50	Q113	TRANSISTOR	2SD438
C483	CERAMIC CAPACITOR	ACG1017	Q114-117	TRANSISTOR	2SC2458
C484	ELECTR.CAPACITOR	CEAS470M16	Q118	TRANSISTOR	2SA1048
C485	CERAMIC CAPACITOR	ACG1021	Q119	TRANSISTOR	2SC2458
			Q120	TRANSISTOR	RN1203
			Q121	TRANSISTOR	2SC2458
			Q122	TRANSISTOR	2SA1048
			Q123,124	TRANSISTOR	2SC2458
			Q125	TRANSISTOR	2SA1048
			Q126,127	TRANSISTOR	2SC2458
RESISTORS					
VR431	VR(10K)	ACP1025	D103	DIODE	RBV602
VR432	VR	VRTS6VS153	D101,102	ZENER DIODE	RD5.1ESB2
VR451	VR(4.7K)	ACP1024	D107,108	DIODE	1S2471
	Other resistors	RD1/8PM□□□J	D109	DIODE	D5SB20F
			D110-112	DIODE	1SS252
OTHERS					
X431	CERAMIC FILTER	ATF-125	D114	ZENER DIODE	HZS9AL
X471	CRYSTAL RESONATOR	ASS1005	D115	DIODE	1SS252
	ANTENNA TERMINAL	AKA1014	D116	ZENER DIODE	RD5.1ESB2
	4-P		D117	DIODE	1SS252
	AM RF TUNING BLOCK	AXX1011	D118-121	DIODE	1SR139-400
			D122	DIODE	1SS252
			D123	DIODE	1S1555
			D124-128	DIODE	1SS252
			D131,132	DIODE	1SS252
			D133	ZENER DIODE	RD5.1ESB2
MAIN ASSEMBLY (AWZ2906)					
SEMICONDUCTORS					
IC101,102	E-SW IC	TC9164N	D134-139	DIODE	1SS252
IC103	E-VR IC	TC9154AP	D140,141	ZENER DIODE	RD5.6ESB3
IC104	E-TONE CONTROL IC	TC9184P	D142-145	DIODE	1SS252
IC105	E-VR IC	TC9154AP	D146,147	ZENER DIODE	RD5.6ESB3
IC106	LOGIC IC	BU4066BL	D148,149	DIODE	1SS252
IC107	LOGIC IC	TC4028BP	D150	ZENER DIODE	RD5.6ESB3
IC108	OP-AMP IC	NJM4558S-X	D151	DIODE	1SS252
IC109,110	OP-AMP IC	M5220L	COILS		
IC111	OP-AMP IC	NJM4558S-X	L101,102	COIL	ATH100
IC112	E-SW IC	CX-894	L103,104	COIL	ATH101

Mark No.	Description	Parts No.
RELAY		
RY102	RELAY	ASR1005
SWITCH		
S101	VOLTAGE SELECTOR	AKX1033
CAPACITORS		
C101-106	CERAMIC CAPACITOR	CCMSL101J50
C107,108	CERAMIC CAPACITOR	CCMSL680J50
C109-114	CERAMIC CAPACITOR	CCMSL101J50
C129-134	ELECTR.CAPACITOR	CEAS4R7M50
C135,136	ELECTR.CAPACITOR	CEAS2R2M50
C137,138	CERAMIC CAPACITOR	CCMSL820J50
C139,140	ELECTR.CAPACITOR	CEAS010M50
C141,142	MYLOR FILM CAPACITOR	CQMA272K50
C143,144	ELECTR.CAPACITOR	CEAS100M25
C145,146	AUDIO FILM CAPACITOR	CFTXA823J50
C147-150	AUDIO FILM CAPACITOR	CFTXA153J50
C151-156	ELECTR.CAPACITOR	CEAS4R7M50
C157	ELECTR.CAPACITOR	CEAS2R2M50
C158,159	ELECTR.CAPACITOR	CEAS470M16
C160	CERAMIC CAPACITOR	CKDYX473M16
C161	ELECTR.CAPACITOR	CEAS010M50
C162,163	ELECTR.CAPACITOR	CEAS470M10
C164	ELECTR.CAPACITOR	CEAS010M50
C165-168	AUDIO FILM CAPACITOR	CFTXA104J50
C169	ELECTROLYTIC CAPACITOR	CEAS471M6
C170	ELECTROLYTIC CAPACITOR	CEANP4R7M50
C171	CERAMIC CAPACITOR	CKCYF473Z50
C172	ELECTROLYTIC CAPACITOR	CEANP220M35
C173	ELECTR.CAPACITOR	CEAS101M16
C174	CKA(0.01/AC150V)	ACG1005
C175,176	ELECTROLYTIC CAPACITOR	ACH1021
C177,178	CERAMIC CAPACITOR	CKCYF473Z50
C179,180	ELECTR.CAPACITOR	CEAS470M25
C181,182	CERAMIC CAPACITOR	CKCYF473Z50
C183,184	ELECTR.CAPACITOR	CEAS470M25
C185	CERAMIC CAPACITOR	CKCYF473Z50
C186	ELECTR.CAPACITOR	CEAS470M25
C187,188	ELECTROLYTIC CAPACITOR	ACH1074
C189	CKA(0.01/AC150V)	ACG1005
C190	ELECTROLYTIC CAPACITOR	CEAS471M25
C191	CERAMIC CAPACITOR	CKCYF103Z50
C192	ELECTR.CAPACITOR	CEAS470M10

Mark No.	Description	Parts No.
C193	CEA(47000/5.5V)	ACH1037
C194	ELECTR.CAPACITOR	CEAS470M25
C195-197	ELECTR.CAPACITOR	CEAS470M10
C198	ELECTR.CAPACITOT	CEAS4R7M50
C199	ELECTR.CAPACITOR	CEAS220M25
C200-202	CERAMIC CAPACITOR	CCMSL080D50
C203	AUDIO FILM CAPACITOR	CFTXA473J50
C204	ELECTR.CAPACITOR	CEAS101M16
C205	ELECTR.CAPACITOR	CEAS470M50
C206	ELECTR.CAPACITOR	CEAS470M25
C208,209	CERAMIC CAPACITOR	CKCYF103Z50
C210-215	ELECTR.CAPACITOR	CEAS4R7M50
C216-220	ELECTR.CAPACITOR	CEASR47M50
C221	ELECTR.CAPACITOR	CEAS2R2M50
C222,223	CERAMIC CAPACITOR	CCMSL101J50
C224,225	ELECTR.CAPACITOR	CEAS470M10
C226	AUDIO FILM CAPACITOR	CFTXA473J50
C228		CQMXA103J100
RESISTORS		
R173-176	CARBON FILM RESISTOR	RD1/4PMF4R7J
R181,182	RESISTOR(0.33,5W)	ACN-139
R183-186	METAL OXIDE RESISTOR	RS1LMF100J
R187-190	CARBON FILM RESISTOR	RD1/4PMF100J
R204	CARBON FILM RESISTOR	RD1/4PMF101J
R207-209	CARBON FILM RESISTOR	RD1/4PMF4R7J
R210	CARBON FILM RESISTOR	RD1/2PMF8R2J
R211	CARBON FILM RESISTOR	RD1/4PMF4R7J
R212	CARBON FILM RESISTOR	RD1/4PMF100J
R219,220	CARBON FILM RESISTOR	RD1/4PMF100J
R226	FUSIBLE RESISTOR	RFA1/4PS220J
R305,306	CARBON FILM RESISTOR	RD1/4PMF010J
R307	CARBON FILM RESISTOR	RD1/4PMF470J
	Other resistors	RD1/8PM□□□□
OTHERS		
	2-P TERMINAL	AKB1100
	4-P TERMINAL	AKB1101
	3-P TERMINAL	AKB1102
	2-P TERMINAL	AKB1103
	SPEAKER TERMINAL	AKE-111
	8-P	

Mark No.	Description	Parts No.
	JACK 2-P JACK	AKN1006 AKN1020
	AMP ASSEMBLY SURROUND ASSEMBLY	AWH1008 AWX1039
CN1	JUMPER CONNECTOR	KPC6
CN20	JUMPER CONNECTOR	KPE5
CN4	JUMPER CONNECTOR	KPC9
CN5	JUMPER CONNECTOR	KPC5
CN6	JUMPER CONNECTOR	KPE15
CN7	JUMPER CONNECTOR	KPE15
AMP ASSEMBLY (AWH1008)		
Note: AMP assembly (AWH1008) is a part of MAIN assembly (AWZ2906).		
SEMICONDUCTORS		
Q601,602	TRANSISTOR	2SA979
Q603,604	TRANSISTOR	2SC2240
Q605,606	TRANSISTOR	2SA970
Q607,608	TRANSISTOR	2SA1145
Q609,610	TRANSISTOR	2SC2705
△ Q611,612	TRANSISTOR	2SC3298
△ Q613,614	TRANSISTOR	2SA1306
Q661,662	TRANSISTOR	2SC2240
D601-612	DIODE	1SS252
D661-666	DIODE	1SS252
CAPACITORS		
C601,602	MYLOR FILM CAPACITOR	CQMA102J50
C603,604	ELECTR.CAPACITOR	CEAS2R2M50
C605,606	CERAMIC CAPACITOR	CKCYB222K50
C607,608	ELECTROLYTIC CAPACITOR	CEXA471M16
C609,610	MICA CAPACITOR	CMA100D500
C611,612	CERAMIC CAPACITOR	CCCSL020C500
C619-622	CERAMIC CAPACITOR	CCCSL101K500
C623,624	CERAMIC CAPACITOR	CKCYX473M25
C625-628	CAPACITOR(CERAMIC)	ACG-009
C629,630	CERAMIC CAPACITOR	CCCSL101J50
C661,662	ELECTROLYTIC CAPACITOR	CEANP2R2M100
RESISTORS		
R605,606	CARBON FILM RESISTOR	RDR1/4PM513J

Mark No.	Description	Parts No.
R613-616	FUSIBLE RESISTOR	RFA1/4PS101J
R617,618	CARBON FILM RESISTOR	RDR1/4PM431J
R619,620	CARBON FILM RESISTOR	RDR1/2PM123J
R621,622	FUSIBLE RESISTOR	RFA1/4PS680J
R625,626	FUSIBLE RESISTOR	RFA1/4PS470J
R641-644	CARBON FILM RESISTOR	RD1/4PMF151J
R645-648	CARBON FILM RESISTOR	RD1/4PMF101J
R649-652	FUSIBLE RESISTOR	RFA1/4PS4R7J
R661-664	CARBON FILM RESISTOR	RD1/4PMF222J
R665-668	CARBON FILM RESISTOR	RD1/8PM153J
R669,670	CARBON FILM RESISTOR	RD1/8PM183J
	Other resistors	RD1/4PM□□□□
SURROUND ASSEMBLY (AWX1039)		
Note: SURROUND assembly (AWX1039) is a part of MAIN assembly (AWZ2906).		
SEMICONDUCTORS		
IC501,502	OP-AMP IC	NJM4558S-X
IC503	IC	M50198P
IC504	OP-AMP IC	NJM4558S-X
IC505	DOLBY-B IC	LA2730
IC506	OP-AMP IC	NJM4558S-X
IC507	E-VR IC	TC9154AP
IC508	OP-AMP IC	NJM4558S-X
Q501	TRANSISTOR	2SC1740S
Q502,503	TRANSISTOR	2SC2878
Q504-507	N-FET	2SK246
Q508	TRANSISTOR	RN2203
Q509-511	TRANSISTOR	RN1203
D501-504	DIODE	1SS252
D505	ZENER DIODE	RD12ESB
CAPACITORS		
C501-506	ELECTR.CAPACITOR	CEAS100M25
C507	MYLOR FILM CAPACITOR	CQMA562J50
C508	MYLOR FILM CAPACITOR	CQMA561J50
C509	AUDIO FILM CAPACITOR	CFTXA104J50
C510	ELECTR.CAPACITOR	CEAS470M16
C511,512	AUDIO FILM CAPACITOR	CFTXA474J50
C513	AUDIO FILM CAPACITOR	CFTXA104J50

Mark	No.	Description	Parts No.
C514		ELECTR.CAPACITOR	CEANP100M16
C515		MYLOR FILM CAPACITOR	CQMA562J50
C516		MYLOR FILM CAPACITOR	CQMA561K50
C517		ELECTR.CAPACITOR	CEAS100M25
C518		MYLOR FILM CAPACITOR	CQMA153J50
C519-521		ELECTR.CAPACITOR	CEAS100M25
C522		AUDIO FILM CAPACITOR	CFTXA103J50
C523		ELECTR.CAPACITOR	CEAS470M16
C524		CERAMIC CAPACITOR	CKCYX473M25
C525		ELECTR.CAPACITOR	CEAS100M50
C527		ELECTR.CAPACITOR	CEAS100M50
C529		AUDIO FILM CAPACITOR	CFTXA333J50
C530		MYLOR FILM CAPACITOR	CQMA472J50
C531		ELECTR.CAPACITOR	CEAS101M10
C532		ELECTR.CAPACITOR	CEAS220M16
C533		AUDIO FILM CAPACITOR	CFTXA333J50
C534		ELECTR.CAPACITOR	CEAS010M50
C535		ELECTR.CAPACITOR	CEASR33M50
C536		ELECTR.CAPACITOR	CEAS470M25
C539,540		ELECTR.CAPACITOR	CEAS100M25
C541-544		CERAMIC CAPACITOR	CKDYX473M25
C545,546		ELECTR.CAPACITOR	CEAS100M25
C547-549		ELECTR.CAPACITOR	CEAS4R7M50
C550		CERAMIC CAPACITOR	CKMYB471K50
C551		ELECTR.CAPACITOR	CEAS4R7M50
C552,553		CERAMIC CAPACITOR	CKDYB103K50
C554		AUDIO FILM CAPACITOR	CFTXA104J50
C555		ELECTR.CAPACITOR	CEAS100M50
C556		ELECTR.CAPACITOR	CEAS101M25
C557		MYLOR FILM CAPACITOR	CQMA153J50
RESISTORS			
VR501	VR		VRTS6HS223
R569	CARBON FILM RESISTOR		RD1/4PM221J
	Other resistors		RD1/8PM□□□J
OTHERS			
CN21	JUMPER CONNECTOR	KPC7	
	7-P		
CN22	JUMPER CONNECTOR	KPC3	
	3-P		
CN23	JUMPER CONNECTOR	KPC3	
	3-P		

Mark	No.	Description	Parts No.
CN24	JUMPER CONNECTOR	KPC9	
	9-P		
X501	CERAMIC OSCILATOR	ASS1016	
PRO LOGIC ASSEMBLY (AWX1040)			
SEMICONDUCTORS			
IC1001	LOGIC IC	TC4053BP	
IC1002	DUAL ATT/BAL IC	M51132L	
IC1003,1004	IC	NJM082D	
IC1005	OTHER IC	LA2770	
IC1006,1007	OP-AMP IC	NJM4558S-X	
IC1008	PORT-EXPANDER IC	CXD1067P	
IC1009	LOGIC IC	TC4011UBP	
IC1010	OP-AMP IC	NJM4558S-X	
IC1011	LOGIC IC	TC4052BP	
Q1001,1002	N-FET	2SK369	
Q1003	TRANSISTOR	2SC2878	
Q1004	TRANSISTOR	RN2203	
Q1005,1006	TRANSISTOR	RN1203	
D1001	ZENER DIODE	RD30ESB	
D1002	ZENER DIODE	RD51ESB	
D1003,1004	ZENER DIODE	RD10ESB2	
D1005	DIODE	1SS252	
D1006	ZENER DIODE	RD56ESB	
D1010-1014	DIODE	1SS252	
CAPACITORS			
C1001,1002	ELECTR.CAPACITOR	CEAS4R7M50	
C1003,1004	ELECTR.CAPACITOR	CEAS100M25	
C1005-1008	AUDIO FILM CAPACITOR	CFTXA104J50	
C1009,1010	MYLOR FILM CAPACITOR	CQMA681J50	
C1011	AUDIO FILM CAPACITOR	CFTXA334J50	
C1012	AUDIO FILM CAPACITOR	CFTXA154J50	
C1013	AUDIO FILM CAPACITOR	CFTXA334J50	
C1014	AUDIO FILM CAPACITOR	CFTXA154J50	
C1015-1018	ELECTROLYTIC CAPACITOR	CEANL4R7M50	
C1019,1020	MYLOR FILM CAPACITOR	CQMA682K50	
C1021	ELECTR.CAPACITOR	CEAS101M16	
C1022	ELECTR.CAPACITOR	CEAS470M10	
C1023,1024	AUDIO FILM CAPACITOR	CFTXA224J50	
C1025,1026	ELECTROLYTIC CAPACITOR	CEANL4R7M50	
C1027,1028	AUDIO FILM CAPACITOR	CFTXA224J50	

Mark	No.	Description	Parts No.
	C1029	ELECTR.CAPACITOR	CEAS221M10
	C1030-1033	ELECTR.CAPACITOR	CEAS4R7M50
	C1034	MYLOR FILM CAPACITOR	CQMA471K50
	C1035	AUDIO FILM CAPACITOR	CFTXA334J50
	C1036	AUDIO FILM CAPACITOR	CFTXA104J50
	C1037	AUDIO FILM CAPACITOR	CFTXA103J50
	C1038	AUDIO FILM CAPACITOR	CFTXA473J50
	C1039-1043	ELECTR.CAPACITOR	CEAS220M16
	C1044	CERAMIC CAPACITOR	CCDSL101J50
	C1045	ELECTR.CAPACITOR	CEANP010M50
	C1046,1047	AUDIO FILM CAPACITOR	CFTXA473J50
	C1048	ELECTROLYTIC CAPACITOR	CEAS1R5M50
	C1049	CERAMIC CAPACITOR	CKDYB152K50
	C1050	CERAMIC CAPACITOR	CCCSL330J50
	C1051	CERAMIC CAPACITOR	CKDYB103K50
	C1052	ELECTR.CAPACITOR	CEAS100M50
	C1053,1054	ELECTR.CAPACITOR	CEAS470M50
	C1055,1056	ELECTR.CAPACITOR	CEAS331M16
	C1057,1058	CERAMIC CAPACITOR	CKDYB472K50
	C1065	ELECTR.CAPACITOR	CEAS101M16
	C1067	ELECTR.CAPACITOR	CEAS100M50

RESISTORS

VR1001	VR	VRTB6VS223
VR1002	VR	VRTS6VS103
	Other resistors	RD1/8PM□□□J

REAR SP ASSEMBLY

OTHER

SPEAKER TERMINAL 4-P	AKE1012
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CENTER AMP ASSEMBLY

SEMICONDUCTORS

Q752	TRANSISTOR	2SA979
Q753,754	TRANSISTOR	2SC2458
Q755	TRANSISTOR	2SD1276A
Q756	TRANSISTOR	2SB950A
Q757	TRANSISTOR	2SC2458
D748	ZENER DIODE	RD10ESB
D749,750	DIODE	1SS252
D751	DIODE	1S2471
D762	DIODE	1SS252
D763	ZENER DIODE	RD4.3ESB2

Mark	No.	Description	Parts No.
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CAPACITORS

C707	CERAMIC CAPACITOR	CCCSL330J50
C710	CERAMIC CAPACITOR	CCCSL101J50
C714	ELECTR.CAPACITOR	CEAS2R2M50
C759	CERAMIC CAPACITOR	CKCYB102K50
C760	ELECTR.CAPACITOR	CEAS220M50
C761	CERAMIC CAPACITOR	CKCYB102K50
C762	ELECTR.CAPACITOR	CEAS470M16
C763	ELECTR.CAPACITOR	CEAS470M25
C764	ELECTR.CAPACITOR	CEANP2R2M50
C765,766	CERAMIC CAPACITOR	CKDYF473Z50

RESISTORS

R791,792	METAL OXIDE RESISTOR	RS2LMFR47J
R797	CARBON FILM RESISTOR	RD1/4PMF470J
	Other resistors	RD1/4PM□□□J

CENTER SP ASSEMBLY

SEMICONDUCTOR

D324	DIODE	1SS252
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COIL

L302	COIL	ATH1011
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RELAY

RY302	RELAY	ASR1005
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CAPACITOR

C357	AUDIO FILM CAPACITOR	CFTXA473J50
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RESISTORS

All resistors	RD1/4PMF□□□J
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OTHER

CN11	JUMPER CONNECTOR 3-P	KPC3
	SPEAKER TERMINAL 2-P	AKE-058

REAR AMP Lch ASSEMBLY

SEMICONDUCTORS

Q741	TRANSISTOR	2SA979
Q743	TRANSISTOR	2SC2458
Q745	TRANSISTOR	2SC2458
Q747	TRANSISTOR	2SD1276A
Q749	TRANSISTOR	2SB950A
Q751	TRANSISTOR	2SC2458
D741	ZENER DIODE	RD10ESB
D743	DIODE	1SS252
D745	DIODE	1SS252

Mark	No.	Description	Parts No.
	D747	DIODE	1S2471
	D757	DIODE	1SS252
	D759	ZENER DIODE	RD4.3ESB2
CAPACITORS			
	C705	CERAMIC CAPACITOR	CCCSL330J50
	C719	CERAMIC CAPACITOR	CCCSL101J50
	C741	ELECTR.CAPACITOR	CEAS2R2M50
	C743	CERAMIC CAPACITOR	CKCYB102K50
	C745	ELECTR.CAPACITOR	CEAS220M50
	C747	CERAMIC CAPACITOR	CKCYB102K50
	C749	ELECTR.CAPACITOR	CEAS470M16
	C751	ELECTR.CAPACITOR	CEAS470M25
	C753	ELECTR.CAPACITOR	CEANP2R2M50
	C755	CERAMIC CAPACITOR	CKDYF473Z50
	C757	CERAMIC CAPACITOR	CKDYF473Z50
RESISTORS			
	R765	METAL OXIDE RESISTOR	RS2LMFR47J
	R767	METAL OXIDE RESISTOR	RS2LMFR47J
	R777	CARBON FILM RESISTOR	RD1/4PMF470J
		Other resistors	RD1/8PM□□□J
REAR AMP Rch ASSEMBLY SEMICONDUCTORS			
	Q740	TRANSISTOR	2SA979
	Q742	TRANSISTOR	2SC2458
	Q744	TRANSISTOR	2SC2458
	Q746	TRANSISTOR	2SD1276A
	Q748	TRANSISTOR	2SB950A
	Q750	TRANSISTOR	2SC2458
	D740	ZENER DIODE	RD10ESB
	D742	DIODE	1SS252
	D744	DIODE	1SS252
	D746	DIODE	1S2471
	D756	DIODE	1SS252
	D758	ZENER DIODE	RD4.3ESB2
CAPACITORS			
	C704	CERAMIC CAPACITOR	CCCSL330J50
	C718	CERAMIC CAPACITOR	CCCSL101J50
	C740	ELECTR.CAPACITOR	CEAS2R2M50
	C742	CERAMIC CAPACITOR	CKCYB102K50
	C744	ELECTR.CAPACITOR	CEAS220M50
	C746	CERAMIC CAPACITOR	CKCYB102K50
	C748	ELECTR.CAPACITOR	CEAS470M16
	C750	ELECTR.CAPACITOR	CEAS470M25
	C752	ELECTR.CAPACITOR	CEANP2R2M50
	C754	CERAMIC CAPACITOR	CKDYF473Z50
	C756	CERAMIC CAPACITOR	CKDYF473Z50

Mark	No.	Description	Parts No.
RESISTORS			
	R764	METAL OXIDE RESISTOR	RS2LMFR47J
	R766	METAL OXIDE RESISTOR	RS2LMFR47J
	R776	CARBON FILM RESISTOR	RD1/4PMF470J
		Other resistors	RD1/8PM□□□J
EQ ASSEMBLY SEMICONDUCTOR			
	IC322	OP-AMP IC	M5220P
CAPACITORS			
	C329,330	ELECTR.CAPACITOR	CEAS100M50
	C331,332	CERAMIC CAPACITOR	CCCSL221J50
	C333,334	ELECTROLYTIC CAPACITOR	CEAS471M6
	C335,336	AUDIO FILM CAPACITOR	CFTXA243J50
	C337,338	AUDIO FILM CAPACITOR	CFTXA823J50
	C339,340	ELECTR.CAPACITOR	CEAS2R2M50
	C341,342	CERAMIC CAPACITOR	CKCYF473Z50
	C343,344	CERAMIC CAPACITOR	CCCSL101J50
	C354	CERAMIC CAPACITOR	CKCYF473Z50
RESISTORS			
		All resistors	RD1/8PM□□□J
OTHER			
		4-P JACK	AKB1 131
FRONT ASSEMBLY (AWZ2914) SEMICONDUCTORS			
	IC301		PDG054-A
	Q301-307	TRANSISTOR	RN1003
	Q308	TRANSISTOR	2SC2458
	Q309	TRANSISTOR	RN1003
	Q313-316	TRANSISTOR	RN1003
	D301	DIODE	S556
	D302-317	DIODE	1SS252
	D325,326	DIODE	1SS252
COIL			
	L301	AXIAL INDUCTOR	LAU100K
SWITCHES			
	S301-303	SWITCH	ASG1029
	S304	SWITCH	ASG-703

Mark	No.	Description	Parts No.
	S305-338	SWITCH	ASG1029
	S339	SWITCH	ASG-703
	S340-351	SWITCH	ASG1029
	S352	SWITCH	ASG-703
	S353-359	SWITCH	ASG1029
CAPACITORS			
	C301	ELECTROLYTIC CAPACITOR	CEJA0R1M50
	C302-304	ELECTR.CAPACITOR	CEJA100M16
	C305	ELECTROLYTIC CAPACITOR	CEJA220M6
RESISTORS			
		All resistors	RD1/8PM□□□J
OTHERS			
		REMOTE RECEIVER UNIT	AXX1010
	V301	FL TUBE	AAV1098
	X301	CERAMIC OSCILATOR	ASS1022
PRE POWER ASSEMBLY			
CAPACITOR			
	C355	CERAMIC CAPACITOR	CKDYF473Z50
OTHERS			
	CN	JACK 6-P JUMPER CONNECTOR 6-P	AKB1130 KPC6
PRIM ASSEMBLY			
RELAY			
	RY301	RELAY	ASR1027
TRANSFORMER			
	T301	POWER TRANSFORMER	ATT1015
CAPACITORS			
	C353	CKA(0.01/AC400V)	ACG1002
	C358	CKA(0.022/AC400V)	ACG1030
RESISTOR			
	R357	RESISTOR(2.2M,1/2W)	ACN-209
OTHER			
		AC SOCKET 3-P	AKP1041

Mark	No.	Description	Parts No.
SP SW ASSEMBLY			
SEMICONDUCTORS			
	Q324-326	TRANSISTOR	RN1201
	D318-323	DIODE	1SS252
SWITCH			
	S360	PUSH SWITCH	SUL6L222N
RELAIES			
	RY303	RELAY	ASR1005
	RY304,305	RELAY	ASR-109
RESISTORS			
	R360,361	METAL OXIDE RESISTOR	RS3LMF331J
	R364-366		RD1/4PMF101J
OTHERS			
	CN10	JACK JUMPER CONNECTOR 3-P	AKN1002 KPC3
	CN9	JUMPER CONNECTOR 4-P	KPE4
VOL ASSEMBLY			
SEMICONDUCTORS			
	IC323	OP-AMP IC	M5220L
	IC324		TA7291S
CAPACITORS			
	C345,346	CERAMIC CAPACITOR	CKCYB103K50
	C347,348	ELECTR.CAPACITOR	CEAS4R7M50
	C349,350	CERAMIC CAPACITOR	CKCYB331K50
	C351	ELECTR.CAPACITOR	CEAS470M16
	C352	ELECTR.CAPACITOR	CEANP2R2M50
RESISTORS			
	VR302	VR	ACX1038
	R353	CARBON FILM RESISTOR	RD1/4PMF2R2J
		Other resistors	RD1/8PM□□□J
OTHERS			
	CN16	JUMPER CONNECTOR 3-P	KPC3
	CN8	JUMPER CONNECTOR 3-P	KPE3

5. ADJUSTMENTS

5.1 TUNER SECTION

1. Wiring Connect the wires as shown in Fig.1 (FM ANT. terminal: 75Ω).
2. Preset Set the VR451 to center position.

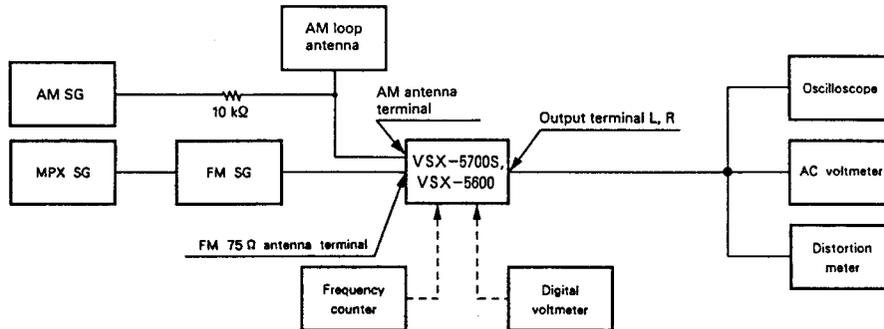


Fig. 5-1 AM and FM adjustment wiring diagram

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

FM Section

Order	Item	SSG			Receiving frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment location	Remarks
1	Checking front end VT	No signal			108MHz	—	Check that the voltage between terminal 41 and ground is 8.7 ± 2.0V.
2	Checking front end VT				87.5MHz	—	Check that the voltage between terminal 41 and ground is 3.4 ± 1.5V.
3	Increasing front end sensitivity	98MHz		Weak input	98MHz	L402, L404, T402	Set the voltage between terminal 43 and ground to maximum, and check that the practical sensitivity is as specified. (5dBμV/75Ω or less)
4	Center adjustment	98MHz		60dBμV	98MHz	L431	Adjust the voltage between terminals 45 and 46 to 0 ± 50mV.
5	Checking monophonic distortion	98MHz	1kHz ± 75kHz dev.	60dBμV	98MHz	—	Check that the monophonic distortion is as specified. (0.6% or less)
6	Adjusting VCO		OFF	60dBμV		VR451	Adjust the output of terminal 44 to 76.0kHz ± 1.0kHz.
7	Adjusting stereo distortion	98MHz	L-ONLY R-ONLY	60dBμV	98MHz	T402	Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification. (0.8%)
8	Checking separation	98MHz	L-ONLY R-ONLY	60dBμV	98MHz	—	Check that the separation of L→R and R→L is as specified. *1
9	Checking lighting levels of TUNED and STEREO IND.	98MHz	STEREO	10dBμV (+1dB / -2dB)	98MHz	VR432	Adjust TUNED and STEREO IND. to start lighting

*1: More than 30dB

AM Section

Order	Item	SSG			Receiving frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment location	Remarks
1	Checking front end VT	No signal			1700kHz	—	Check that the voltage between terminal 41 and ground is 7.5 ±1.0V.
2	Checking front end VT	No signal			530kHz	—	Check that the voltage between terminal 41 and ground is 1.5±0.5V.
3	Checking front end sensitivity	1000kHz	400kHz 30% MOD.	Practical sensitivity level	1000kHz	—	Check that the practical sensitivity (maximum sensitivity) is as specified. *2
4	Adjusting lighting level of TUNED IND.	1000kHz			1000kHz	VR431	Adjust the lighting level of TUNED IND. to 55dBμV/m ±3dB.

*2: 65dBμV/m or less

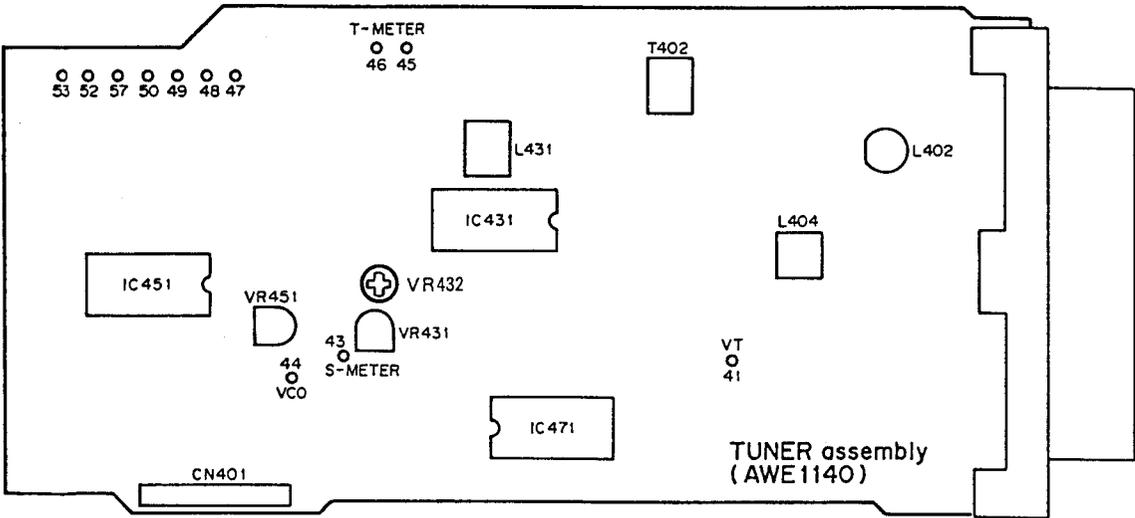


Fig. 5-2 Adjustment location of TUNER SECTION

5.2 SURROUND SECTION

Input 1kHz sine wave (L,R) negative phase, and adjust to achieve 350mV during assembly CN22 – SINE. adjust VR501 to achieve $71 \pm 5\text{mV}$ during Dolby TP.

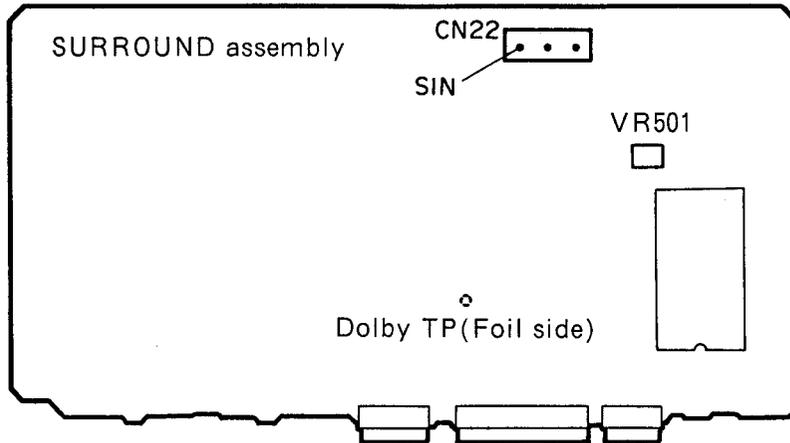


Fig. 5-3 Adjustment location of SURROUND SECTION

5.3 PRO LOGIC SECTION

Perform operation in DOLBY SURROUND PRO LOGIC mode and CENTER MODE WIDE.

1. Input 1kHz sine wave 150mV (L, R in-phase), shorten TP1 and TP2. Adjust VR1001 to get the same L, R output level.
2. According to the above condition, adjust VR1002 to achieve the smallest potential ($0 \pm 50\text{mV}$) at both sides of R1038.

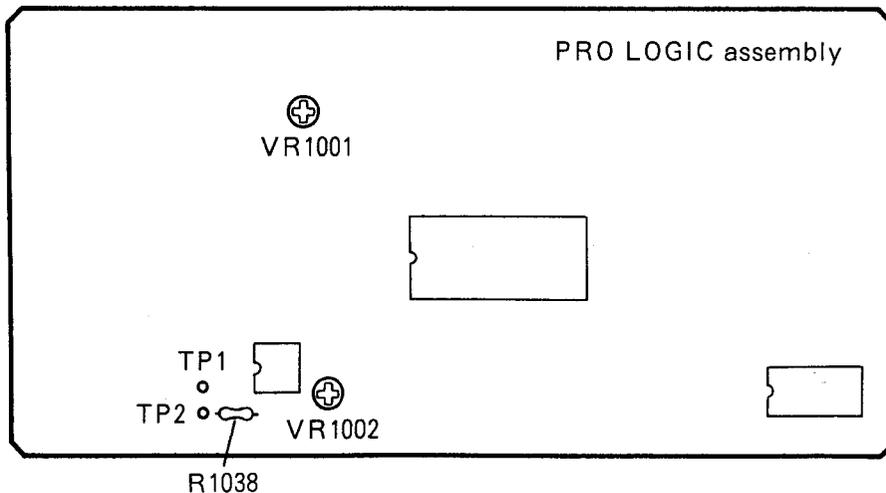


Fig. 5-4 Adjustment location of PRO LOGIC SECTION

6. IC INFORMATION

SYSTEM CONTROL MICRO COMPUTER (PDG054 – A)

•Terminal function

No.	Terminal Name	I/O	Function	No.	Terminal Name	I/O	Function
1	S11	DP	FL segment output (S11)	24	T4	DP	FL grid output (G5)
2	S10	DP	FL segment output (S10)	25	T3	DP	FL grid output (G4)
3	S9	DP	FL segment output (S9)	26	T2	DP	FL grid output (G3)
4	S8	DP	FL segment output (S8)	27	T1	DP	FL grid output (G2)
5	S7	DP	FL segment output (S7)	28	T0	DP	FL grid output (G1)
6	S6	DP	FL segment output (S6)	29	INT	I	Not used (Connected to GND)
7	S5	DP	FL segment output (S5)	30	TX	O	Not used (OPEN)
8	S4	DP	FL segment output (S4)	31	TEX	I	Not used (Connected to GND)
9	S3	DP	FL segment output (S3)	32	RST	I	RESET input
10	S2	DP	FL segment output (S2)	33	N.C.	–	Not connect
11	S1	DP	FL segment output (S1)	34	Vdd	5V	+5V supply voltage
12	S0	DP	FL segment output (S0)	35	PI0	I	FRONT LEVEL LEFT A/D input
13	N.C.	DP	Not used (OPEN)	36	PI1	I	FRONT LEVEL RIGHT A/D input
14	T14	DP	FL grid output (G15)	37	PI2	I	REAR LEVEL LEFT A/D input
15	T13	DP	FL grid output (G14)	38	PI3	I	REAR LEVEL RIGHT A/D input
16	T12	DP	FL grid output (G13)	39	PB0	I	CENTER LEVEL A/D input
17	T11	DP	FL grid output (G12)	40	PB1	O	MUTE output for surround
18	T10	DP	FL grid output (G11)	41	PB2	O	SURROUND switching output
19	T9	DP	FL grid output (G10)	42	PB3	O	SURROUND switching output
20	T8	DP	FL grid output (G9)	43	EC	I	Not used (Connected to GND)
21	T7	DP	FL grid output (G8)	44	PX0	O	SERIAL CLK output
22	T6	DP	FL grid output (G7)			I	Destination JAPAN (H)/EXPORT (L) switching
23	T5	DP	FL grid output (G6)				

No.	Terminal Name	I/O	Function
45	PX1	O	SERIAL DATA output
		I	Reference frequency 9kHz (H)/10kHz (L) switching
46	PX2	I	STEREO signal input
47	PA0	O	TUNER MUTE output
48	PA1	I	STOP signal input
49	PA2	I	KEY MATRIX input
50	PA3	O	Not used (OPEN)
51	PF0	O	Output for TC4028
52	PF1	O	Output for TC4028
53	PF2	O	SURROUND switching output
54	PF3	O	Output for TC4028
55	PE0	I	KEY MATRIX input
56	PE1	I	KEY MATRIX input
57	PE2	I	KEY MATRIX input
58	PE3	I	KEY MATRIX input
59	PY0	O	Not used (OPEN)
60	PY1	O	ENHANCER ON (H)/OFF (L) output
61	PY2	I	WAKE UP input
62	RMC	I	REMOCON input
63	PD0	O	VIDEO SELECTOR OFF (H)/TV (L) output
64	PD1	O	VIDEO SELECTOR VCR 1 output
65	PD2	O	VIDEO SELECTOR VCR 2 output
66	PD3	O	VIDEO SELECTOR VDP output
67	PC0	O	VOLUME INDICATOR Lights (H)/Light off (L)

No.	Terminal Name	I/O	Function
68	PC1	O	VOLUME DOWN output (electrically acitivated)
69	PC2	O	VOLUME UP output (electrically acitivated)
70	PC3	O	AC OUTLET relay output
71	Vss	-	GND
72	XTAL	O	Connected to the 4.19MHz ceramic resonator between EXTAL and terminal.
73	N.C.	-	Not connect
74	EXTAL	O	Connected to the 4.19MHz ceramic resonator between XTAL and terminal.
75	Vref	I	Connected to VDD
76	Vfdp	I	-30V negative input voltage for FDP
77	S15	DP	FL segment output (S15)
78	S14	DP	FL segment output (S14)
79	S13	DP	FL segment output (S13)
80	S12	DP	FL segment output (S12)

I: CMOS input

O: CMOS output

N: Nch open drain output

P: Pch open drain output with pull-up resistor

UN: Nch open drain output with pull-up resistor

DP: Pch open drain output with pull-down resistor

UI: CMOS input with pull-up resistor

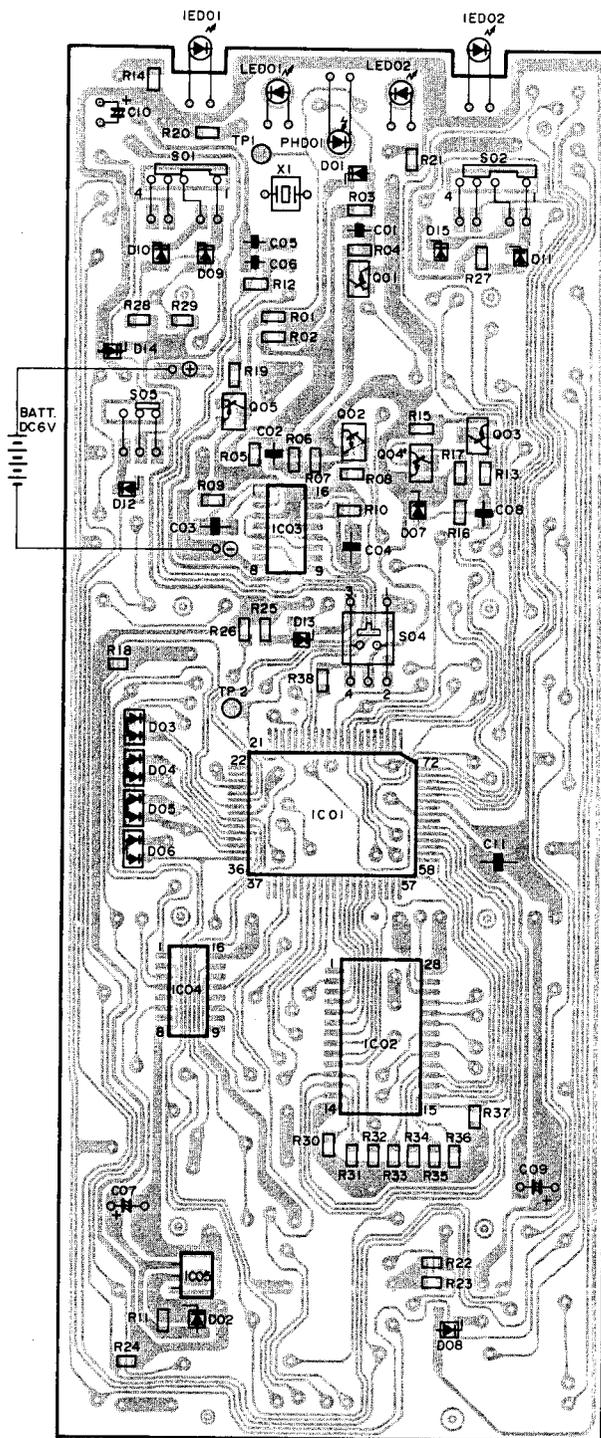
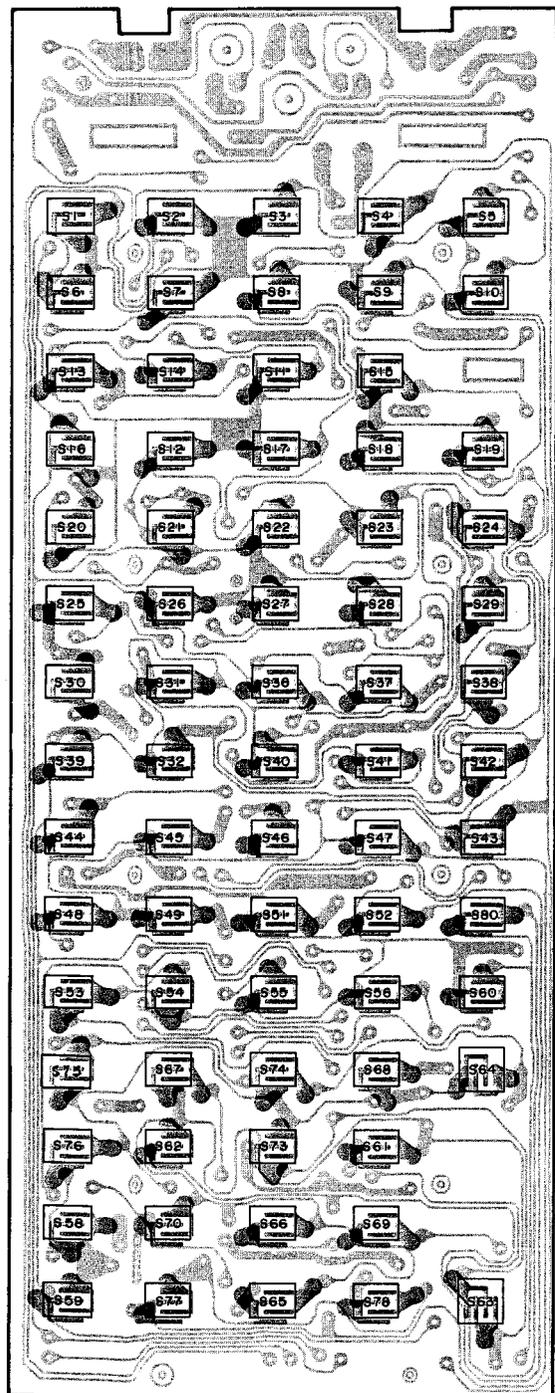
DI: CMOS input with pull-down resistor

7. REMOTE CONTROL UNIT (AXD1149)

7.1 P.C.BOARD PATTERN

NOTE :

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



A

B

C

D

7.2 SCHEMATIC DIAGRAM

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

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

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

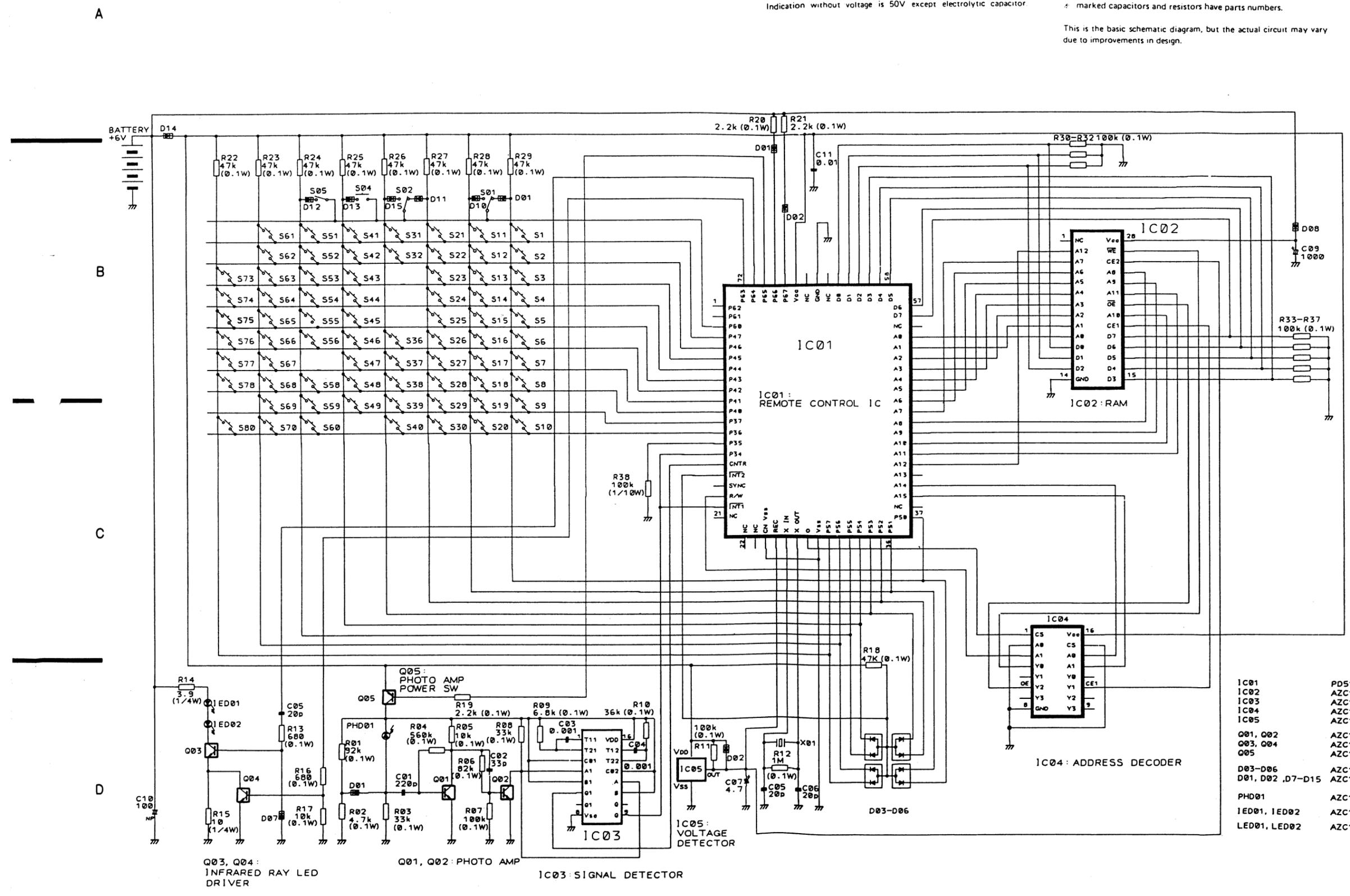
The underline indicates the switch position

- S01 : AUDIO/VIDEO/AUX
- S02 : SR RECALL/USE/LEARN
- S05 : DECK 1/DECK II
- S04 : RESET
- TAPE/VCR
 - S-1 : VCR POWER
 - S-2 : TAPE/VCR
 - S-3 : TAPE/VCR
 - S-4 : VCR CH-
 - S-5 : TAPE SELECT
 - S-6 : ←
 - S-7 : ANT
 - S-8 : →
 - S-9 : ▽
 - S-10 : ▽
- CD/VDP
 - S-11 : /SEARCH
 - S-12 : ▽
 - S-13 : CD/VDP POWER
 - S-14 : CHP/FR-TM
 - S-15 : DISC SEL DISPLAY
 - S-16 : ▽
 - S-17 : ▽
 - S-18 : ▽
 - S-19 : ▽
- TUNER/CD/TV/VDP
 - S-20 : 1
 - S-21 : 2
 - S-22 : 3
 - S-23 : 4
 - S-24 : 5
 - S-25 : 6
 - S-26 : 7
 - S-27 : 8
 - S-28 : 9
 - S-29 : 0, 10
 - S-30 : 11/MEMORY
 - S-31 : 12/CLEAR
 - TUNER/CD/PHONO/AMP/TV
 - S-32 : BAND/CH-RTN

- S-36 : PGM
- S-37 : FREQUENCY-/TV CHANNEL-
- S-38 : FREQUENCY+/TV CHANNEL+
- S-39 : TV POWER
- S-40 : CD+10/TV FUNC
- S-41 : PHONO/TV VOL-
- S-42 : PHONO/TV VOL+
- S-43 : TV DISPLAY
- S-44 : VCR 1
- S-45 : VCR 2
- S-46 : VCR 3
- S-47 : VDP
- S-48 : TV
- S-49 : VIDEO

- S-51 : TAPE 1/DAT
- S-52 : TAPE 2
- S-53 : LINE
- S-54 : CD
- S-55 : TUNER
- S-56 : PHONO
- S-58 : SLEEP
- S-59 : RECEIVER POWER
- S-60 : MUTING
- S-61 : FRONT BAL.R
- S-62 : FRONT BAL.L
- S-63 : MASTER VOLUME-
- S-64 : MASTER VOLUME+
- S-65 : REAR LEVEL-
- S-66 : REAR LEVEL+
- S-67 : SURROUND MODE
- S-68 : DELAY TIME
- S-69 : REAR BAL.R
- S-70 : REAR BAL.L

- S-73 : CENTER LEVEL-
- S-74 : CENTER LEVEL+
- S-75 : SOUND FIELD
- S-76 : ACOUSTIC
- S-77 : SP-A
- S-78 : SP-B
- S-80 : RETURN



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

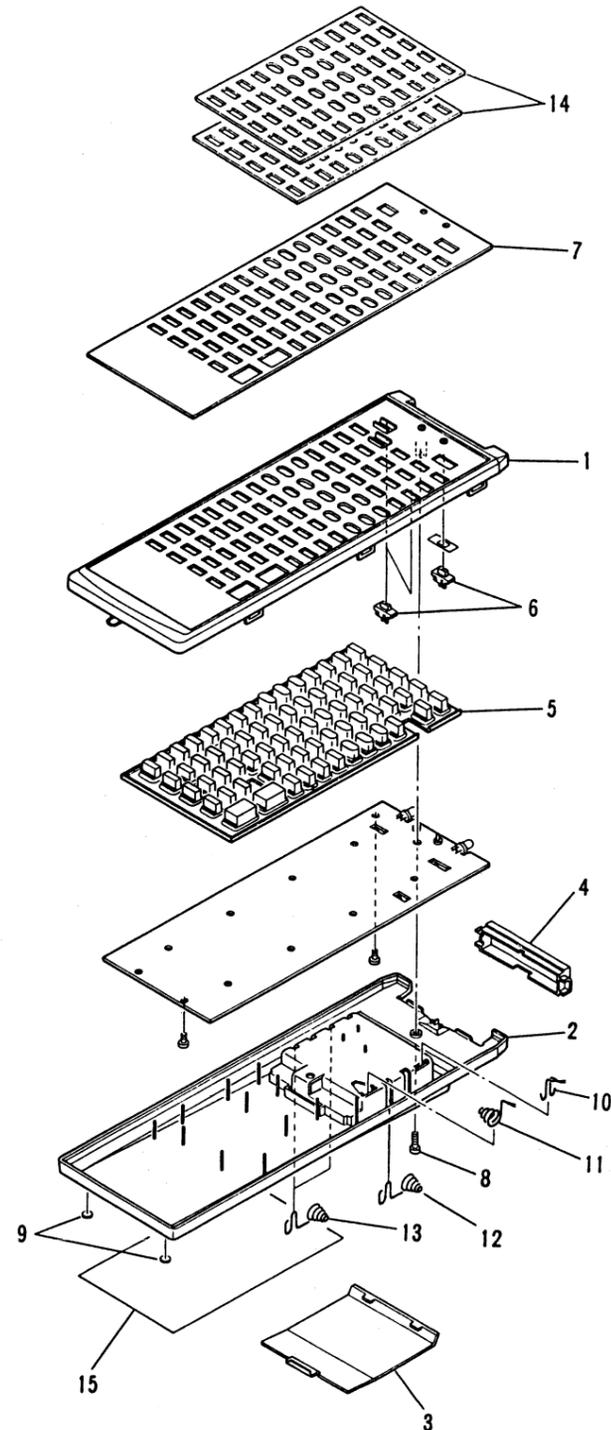
7.3 EXPLODED VIEWS AND PARTS LIST

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.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts list of remote control unit

Mark	No.	Parts No.	Description
	1	AZH1033	Case(A)
	2	AZH1034	Case(B)
	3	AZH1035	Case(C)
	4	AZN1400	Filter
	5	AZA1249	Rubber sheet
	6	AZS1042	Knob
	7	AZA1250	Name plate
	8	AZB1124	Screw
	9	AZN1401	Leg
	10	AZB1274	Electrode spring
	11	AZB1275	Electrode spring
	12	AZB1276	Electrode spring
	13	AZB1277	Electrode spring
	14	AAK1439	Sheet
	15		Label



7.4 ELECTRICAL PARTS LIST

NOTES:

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

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

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

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

5.62kΩ	562 × 10 ¹	5621.....	RN1/4SR	□ □ □ F
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SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC01	PD5140
	IC02	AZC1045
	IC03	AZC1046
	IC04	AZC1047
	IC05	AZC1048
	Q1,Q2	AZC1050
	Q3,Q4	AZC1051
	Q5	AZC1052
	D01,D02,D07-D15	AZC1233
	D03-D06	AZC1049
	PHD01	AZC1055
	LED01,LED02	AZC1054
	IED01,IED02	AZC1053

SWITCHES

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

CAPACITORS

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

RESISTORS

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

OTHERS

Mark	Symbol & Description	Part No.
	X01 Resonator	AZC1057

8. FOR VSX – 5700S/SD AND VSX – 5600/KUC types

CONTRAST OF MISCELLANEOUS PARTS

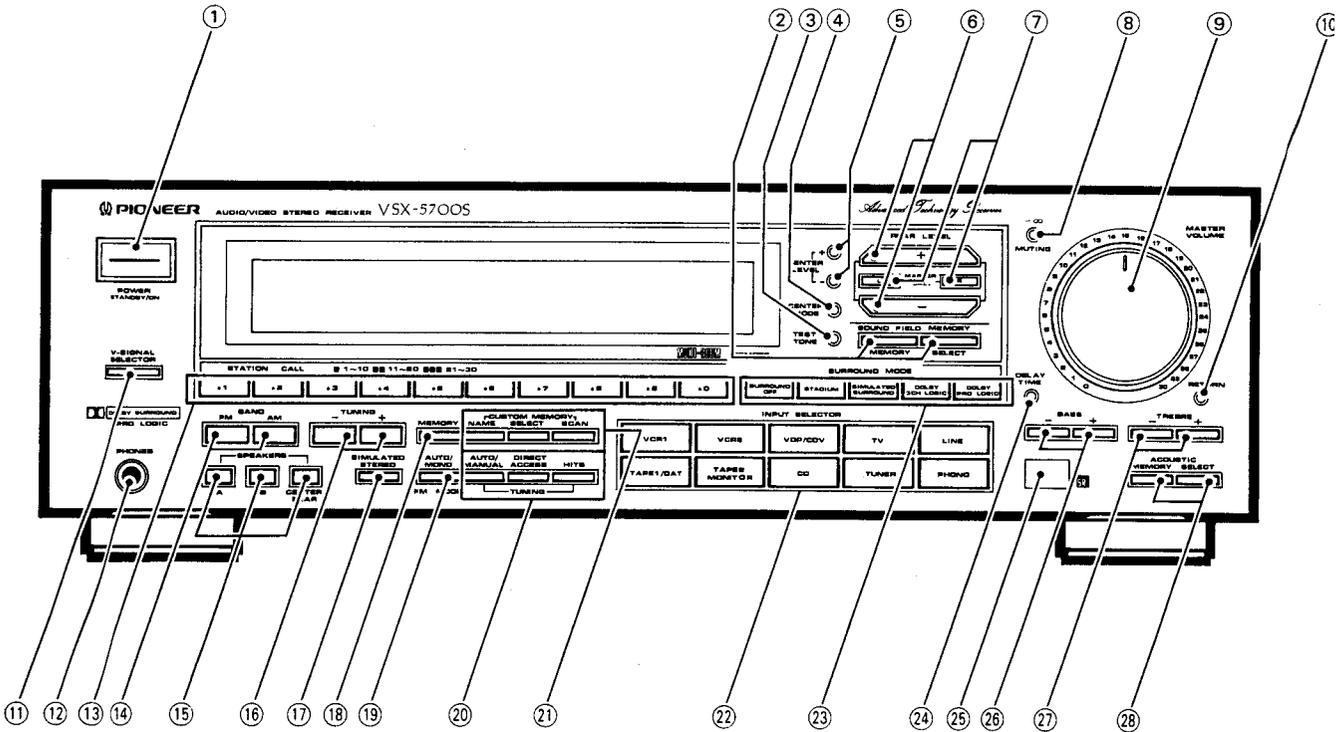
NOTES:

- 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 △ 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.

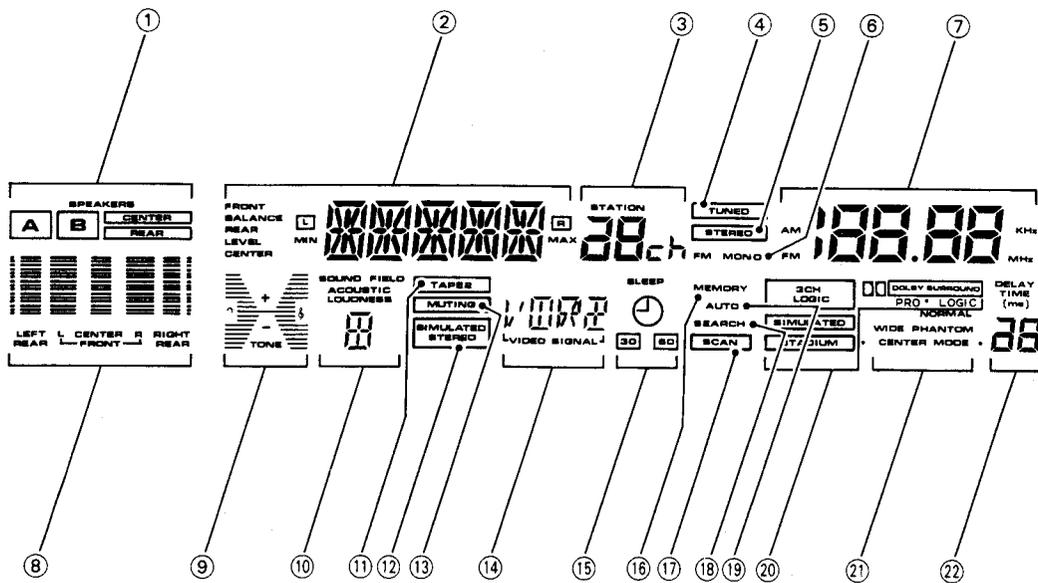
The VSX – 5700S/SD and VSX – 5600/KUC types are the same as the VSX – 5700S/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		VSX – 5700S/KUC type	VSX – 5700S/SD type	VSX – 5600/KUC type	
△	S1 Line voltage selector switch (AC110V – 127V/220V – 240V)	.....	AKX1004	.....
△	S3 Line voltage selector switch (AC110V/120V – 127V/220V/240V)	.....	AKX – 507	.....
△	S4 Slide switch (50μS/70μS)	.....	ASH – 004	.....
△	T1 Power transformer	ATS1275	ATS1276	ATS1275	
△	FU1 Fuse (8A/125V)	AEK1002	.....	AEK1002	
△	FU1 Fuse (4A/125V)	.....	AEK – 125	.....
△	FU2 Fuse (4A/125V)	.....	AEK – 125	.....
△	FU3,FU4 Fuse (6.3A/125V)	AEK – 309	AEK – 127	AEK – 309	
△	AC Power cord	ADG1057	ADG1015	ADG1057	
	Front panel	ANB1393	ANB1393	ANB1394	
	Push revet	.....	AEP – 319	.....
	Packing case	AHD1853	AHD1853	AHD1855	
	Operating Instructions (Spanish)	.....	ARC1216	.....
	Remote control unit	AXD1149	AXD1149	AXD1151	
	Case (C)	AZH1035	AZH1035	AZN1811	

9. PANEL FACILITIES



DISPLAY SECTION



① POWER STANDBY/ON switch

This is the switch for electric power.

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

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

On the multi-voltage model, the indicator on the MASTER VOLUME control knob lights during STANDBY.

[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.

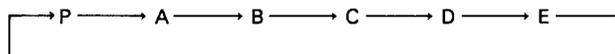
② SOUND FIELD MEMORY switches

MEMORY:

Pressing this switch will result in the memorization of the sound field condition. Press again to cancel this mode.

SELECT:

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



P: The sound field setting previously memorized in the unit.

③ TEST TONE switch

Operates when the DOLBY PRO LOGIC SURROUND or DOLBY 3CH LOGIC mode is selected. When the switch is turned ON, "TEST" appears on the display section and a test tone approximately two seconds in duration is generated in all channels in succession.

④ CENTER MODE switch

This operates if DOLBY PRO LOGIC SURROUND or DOLBY 3CH LOGIC is ON. 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.

PHANTOM — Use this setting when no center channel speaker is connected (DOLBY PRO LOGIC SURROUND).

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

NOTE FOR DOLBY PRO LOGIC SURROUND:

- 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.

⑤ CENTER LEVEL (+, -) switches

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

Operate when DOLBY PRO LOGIC SURROUND or DOLBY 3CH LOGIC mode is on.

After adjustment, use the MASTER VOLUME control to adjust the overall sound to a suitable level.

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

⑥ REAR LEVEL (-, +) switches

Operate only when the surround mode is on.

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

– : Rear speaker volume is reduced.

+ : Rear speaker volume is increased.

Press – and + together to restore front and surround to the default volume balance setting.

⑦ MASTER BAL switches

Use them to adjust the sound 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.

⑧ 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.

⑨ MASTER VOLUME control

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

When you adjust volume by remote control, the indicator above the knob flashes.

⑩ RETURN switch

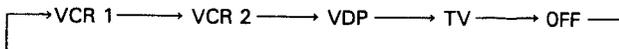
Pressing this switch returns the receiver to the following settings, the sound level being controlled by MASTER VOLUME control knob.

- TAPE 2 MONITOR OFF
- SURROUND MODE OFF
- SPEAKERS A ON
- MUTING OFF
- BALANCE CENTER
- INPUT SELECTOR TUNER
- STATION CALL 1 CH *

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

⑪ V-SIGNAL (VIDEO SIGNAL) SELECTOR switch

When recording simulcast programs, the recorded image can be selected from among VCR 1, VCR 2, VDP and TV.



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

⑫ PHONES jack

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

⑬ STATION CALL switches

Up to 30 FM or AM stations can be preset at random. These switches are used to preset and recall desired broadcasting stations, FM AUTO/MONO mode.

NOTE:

Pressing a **BAND selector switch** or **STATION CALL switch** will select **TUNER** as the source, regardless of what other listening source or function was selected.

⑭ BAND selector switches

FM: Press for FM reception.

AM: Press for AM reception.

⑮ SPEAKERS switches (A, B, CENTER/REAR)

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

⑯ TUNING switches

+: Performs tuning from the currently displayed station frequency in ascending frequency order.

-: Performs tuning in order to descending frequencies.

⑰ SIMULATED STEREO switch

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

"SIMULATED STEREO" appears on the display section.

NOTE:

- This effect is not produced through the rear speakers.
- Use with the **SURROUND MODE** in the **SIMULATED SURROUND** position or **OFF** position (There is no effect in the **STADIUM**, **DOLBY 3CH LOGIC** and **DOLBY PRO LOGIC SURROUND** positions). With a monaural source, it is more effective if used together with **SIMULATED SURROUND**.

⑱ 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, and FM AUTO/MONO mode.

This switch is also used to input custom memory names.

⑲ 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.

⑳ TUNING switches

AUTO/MANUAL TUNING selector switch:

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

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 lets you manually tune to particular broadcast frequencies. Each press of the **+** or **-** switch raises or lowers the frequency by one tuning step. For continuous scanning, keep the switch pressed, then release it to stop scanning.

DIRECT ACCESS TUNING switch:

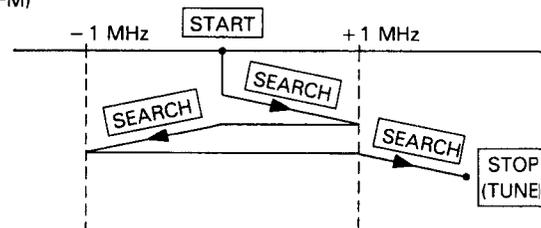
When this switch is pressed, the STATION CALL switches function as ten-key number switches for direct input of the desired reception frequency. Press again to cancel this mode.

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.

HITS (Hyper Intelligent Tuning System) switch:

- 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.
- 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.

(FM)



NOTE:

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

㉑ CUSTOM MEMORY switches

Stations can be assigned to STATION CALL switches according to the genre of material broadcast (for example, ROCK, JAZZ, etc.). You can recall a particular genre, and scan all the stations of that genre with Memory Scan until you reach the desired one.

The initial settings are ROCK, POP, JAZZ, NEWS, and PARTY.

NAME switch

Change the name of a genre with this switch.

SELECT switch

Recall a genre name with this switch.

SCAN switch

Use this switch to carry out Memory Scan within a genre recalled with the SELECT switch.

If it is pressed when "TUNER" is displayed, Memory Scan of successive STATION CALL NUMBERS and not genre will occur.

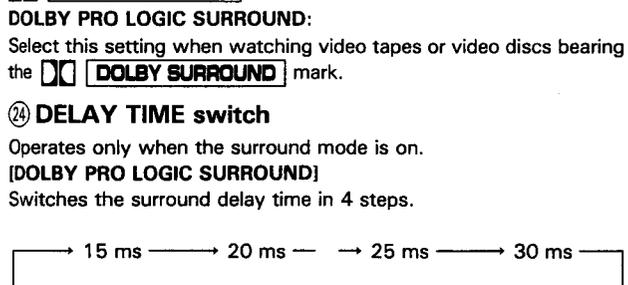
22 Audio/Video INPUT SELECTOR switches

- VCR 1:** Press when performing playback on a VCR unit.
- VCR 2:** Press when performing playback on a second VCR unit.
- VDP/CDV:** Press when performing playback on a video disc player (VDP) or CD CDV LD player.
- TV:** Press to watch TV broadcasts from the TV tuner connected to the rear panel TV jacks.
- LINE:** Press when performing playback on an audio component connected to the LINE jacks.
- TAPE 1/DAT:** Press when performing playback on a DAT or cassette deck.
- TAPE 2 MONITOR:** Press when performing playback on a second cassette deck or second DAT 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.

23 SURROUND MODE selector switches

- STADIUM:**
Ideal for sports broadcasts, etc.
- SIMULATED SURROUND:**
Select this setting when listening to music or a monaural source, etc. With a monaural source, a much better surround effect is achieved if it is used together with SIMULATED STEREO.
- DOLBY 3CH LOGIC:**
This mode is suitable for when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the  **DOLBY SURROUND** mark.
- DOLBY PRO LOGIC SURROUND:**
Select this setting when watching video tapes or video discs bearing the  **DOLBY SURROUND** mark.

24 DELAY TIME switch
Operates only when the surround mode is on.
[DOLBY PRO LOGIC SURROUND]
Switches the surround delay time in 4 steps.



[STADIUM and SIMULATED SURROUND]

Switches the surround delay time in 7 steps.
→ 5 ms → 10 ms → 15 ms → 20 ms → 25 ms → 30 ms → 35 ms →

NOTE:
In DOLBY 3CH LOGIC, the DELAY TIME switch has no effect.

25 Remote sensor

26 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 switches (+, -) of the BASS control are pressed simultaneously, the bass response will be set to the flat (normal) condition.

27 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 switches (+, -) of the TREBLE control are pressed simultaneously, the treble response will be set to the flat (normal) condition.

28 ACOUSTIC switches

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.



- No indication (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.

[DISPLAY SECTION]

1 SPEAKERS indicators

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

2 CHARACTER/LEVEL/BALANCE display

This displays the name of the component selected with the INPUT SELECTOR. It also displays the level and balance settings during adjustment.

3 STATION No. display

Shows the channel selected with the STATION CALL switch.

4 TUNED indicator

Lights up when a station is tuned in during TUNER operation.

5 STEREO indicator

Lights up when a stereo FM broadcast is being received.

6 FM MONO indicator

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

7 Frequency display

8 Level meter

9 TONE level indicator

Shows the settings of the BASS and TREBLE switches.

10 SOUND FIELD/ACOUSTIC display

Shows the setting of the SOUND FIELD and ACOUSTIC.

11 TAPE 2 indicator

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

⑫ **SIMULATED STEREO indicator**

⑬ **MUTING indicator**

Flashes when MUTING in ON.

⑭ **VIDEO SIGNAL SELECTOR indicators**

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

⑮ **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). (The sleep timer can be operated via the remote control.)

⑯ **MEMORY indicator**

⑰ **SCAN indicator**

Lights up during memory scan operation.

⑱ **SEARCH indicator**

⑲ **AUTO TUNING indicator**

Lights up when in the auto tuning mode.

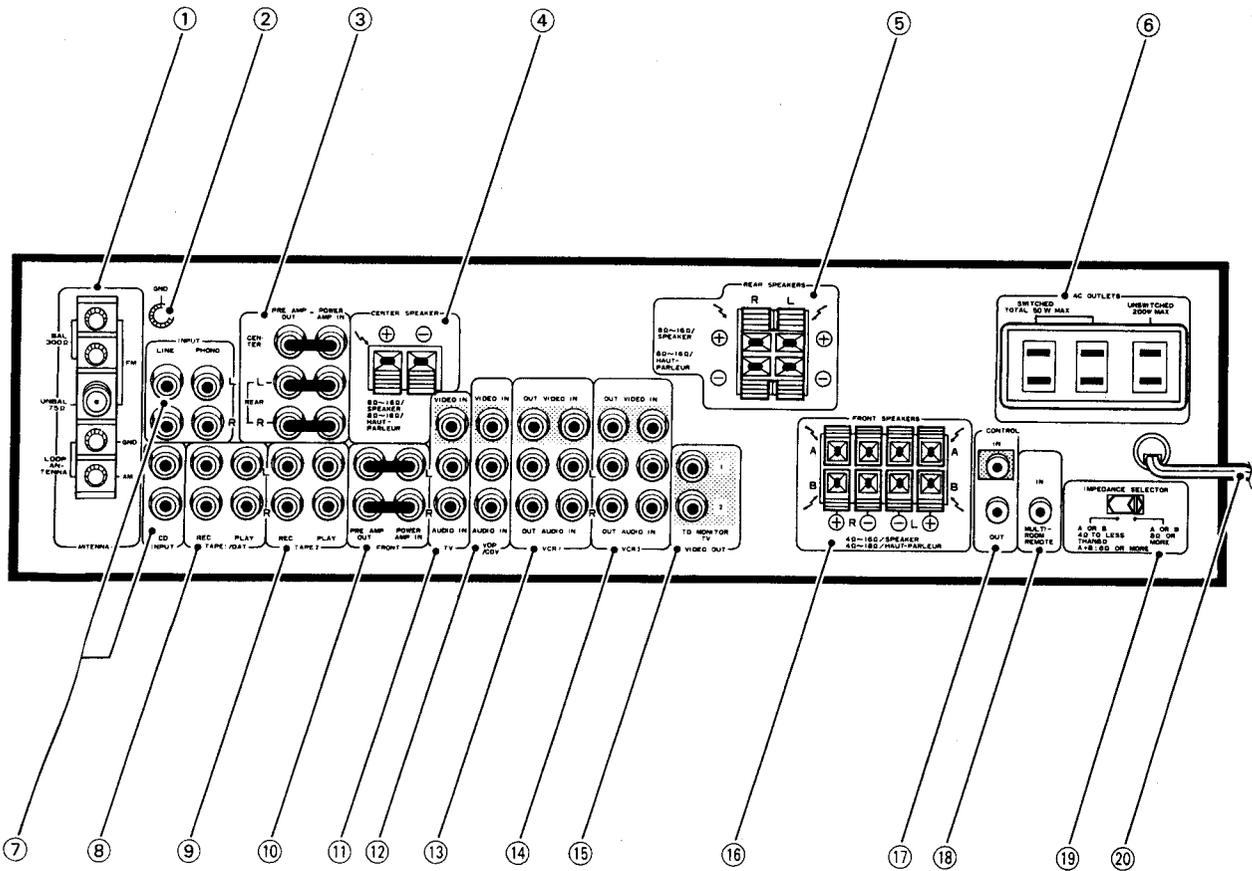
⑳ **SURROUND MODE indicators**

㉑ **DOLBY PRO LOGIC SURROUND/DOLBY 3CH LOGIC CENTER MODE indicator**

Displays the mode selected with the CENTER MODE switch.

㉒ **DELAY TIME display**

Shows the delay time during surround operation.



① FM/AM ANTENNA terminals

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

② GND terminal

Connect the turntable ground lead to this terminal.

③ CENTER, REAR PRE AMP OUT and POWER AMP IN jacks

[CENTER PRE AMP OUT]

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

[CENTER POWER AMP IN]

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

[REAR PRE AMP OUT]

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

[REAR POWER AMP IN]

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

④ CENTER SPEAKER terminals

Connect the center speaker to these terminals.

NOTE:

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

Use center speaker of impedance 8Ω – 16Ω.

⑤ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

NOTE:

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

Use rear speakers of impedance 8Ω – 16Ω.

⑥ AC OUTLETS

[U.S. and Canadian models]

SWITCHED TOTAL 50 W MAX

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 50 W.

UNSWITCHED 200 W MAX

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 200 W.

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

[Multi-voltage model]

SWITCHED TOTAL 100 W MAX

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

UNSWITCHED 200 W MAX

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 200 W.

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.

⑦ INPUT jacks

PHONO..... Connect to the output cables from a turntable.

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

CD..... Connect to the output jacks of a compact disc player.

⑧ TAPE 1/DAT jacks

Use these to connect a first cassette deck or DAT (digital audio tape deck).

Connecting for Recording

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

Connecting for Playback

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

⑨ TAPE 2 jacks

Connect a second cassette deck to these jacks.

Connecting for Recording

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

Connecting for Playback

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

⑩ FRONT PRE AMP OUT and POWER AMP IN jacks

[PRE AMP OUT]

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

[POWER AMP IN]

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

⑪ TV jacks

Use these jacks if you 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.

⑫ VDP/CDV jacks

[VIDEO IN]

When watching the video image from a LD player (VDP) or a CDV player, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

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

⑬ VCR 1 jacks

[VIDEO OUT]

Connect to the VIDEO INPUT jacks of the first VCR.

[AUDIO OUT (L, R)]

Connect to the AUDIO INPUT jacks of the first VCR.

[VIDEO IN]

Connect to the VIDEO OUTPUT jack of the first VCR.

[AUDIO IN (L, R)]

Connect to the AUDIO OUTPUT jacks of the first VCR.

⑭ VCR 2 jacks

[VIDEO OUT]

Connect to the VIDEO INPUT jacks of the second VCR.

[AUDIO OUT (L, R)]

Connect to the AUDIO INPUT jacks of the second VCR.

[VIDEO IN]

Connect to the VIDEO OUTPUT jack of the second VCR.

[AUDIO IN (L, R)]

Connect to the AUDIO OUTPUT jacks of the second VCR.

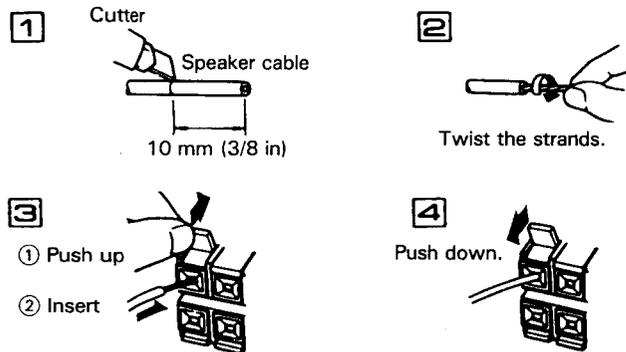
⑮ VIDEO OUT TO MONITOR TV jacks

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR or VDP/CDV connected to this unit.

⑯ FRONT SPEAKERS terminals

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

Speaker lead wire preparation and connection.



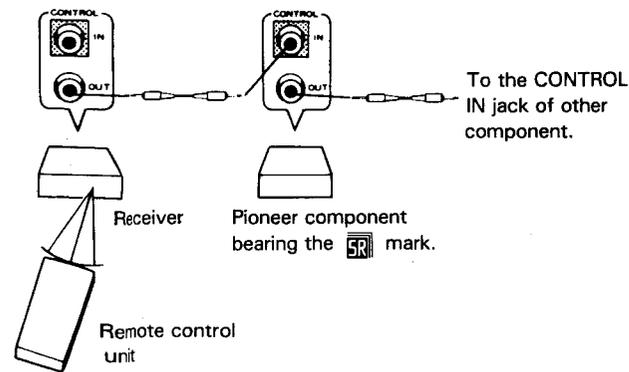
NOTE:
 Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other. Use speakers of impedance 4 Ω–16 Ω. Also set the **IMPEDANCE SELECTOR** switch to match the impedance of your speakers.

⑰ CONTROL IN/OUT jacks

IN: Connect this jack to other Pioneer components (main unit or remote control unit) when using those components to control this unit.

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

NOTE:
 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.

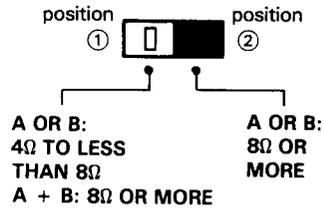


⑱ MULTI-ROOM REMOTE IN jack

Connect the adaptor (MR-100, sold separately) to this Multi-Remote IN jack. You can operate the unit by remote control through the adaptor. It is convenient when the unit is located in a separate room.

⑲ IMPEDANCE SELECTOR switch

Set this switch to match the impedance of your speakers.



• When using a pair of speakers:

Impedance of a speaker	Selector position
4 Ω to less than 8 Ω	①
8 Ω 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 setting.

⑳ Power cord

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10. SPECIFICATIONS

Amplifier section

[POWER AMP IN]

Continuous average power output of 105 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.008 % total harmonic distortion (front).**

Continuous power output

Rear 25 W + 25 W (1 kHz, 0.08%, 8 Ω)

Center 25 W (1 kHz, 0.08%, 8 Ω)

Dynamic Power (2 Ω/4 Ω/8 Ω) 230 W/200 W/150 W

Input (Sensitivity/Impedance)

PHONO MM 2.5 mV/47 kΩ

CD, TAPE 1/DAT, TAPE 2, LINE, VDP/CDV, TV,

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 130 mV

Frequency Response

PHONO MM 20 Hz to 20,000 Hz ± 0.3 dB

CD, TAPE 1/DAT, TAPE 2, LINE, VDP/CDV, TV,

VCR 1, VCR 2 5 Hz to 100,000 Hz ± 0.3 dB

Output (Level/Impedance)

TAPE 1/DAT REC, TAPE 2 REC 150 mV/2.2 kΩ

VCR 1 OUT, VCR 2 OUT 150 mV/2.2 kΩ

PRE AMP OUT 1 V/470 Ω

Tone Control

BASS 100 Hz ± 8 dB

TREBLE 10 kHz ± 8 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, TAPE 2, LINE, VDP/CDV, TV,

VCR 1, VCR 2 98 dB

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

PHONO MM 77 dB

CD, TAPE 1/DAT, TAPE 2, LINE, VDP/CDV, TV,

VCR 1, VCR 2 80 dB

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

** Measured by Audio Spectrum Analyzer.

VIDEO Section

Input (Sensitivity/Impedance)

VCR 1, VCR 2, VDP/CDV, TV 1 Vp-p/75 Ω

Output (Level/Impedance)

VCR 1, VCR 2, MONITOR 1 Vp-p/75 Ω

Frequency Response

VCR 1, VCR 2, VDP/CDV, TV→MONITOR 5 Hz — 10 MHz ± 0.5 dB

Signal to noise ratio 55 dB

Cross Talk 55 dB

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz

Usable Sensitivity Mono; 10.8 dBf, IHF (0.95 μV/75 Ω)

50 dB Quieting Sensitivity Mono; 15.3 dBf, (1.6 μV/75 Ω)

Stereo; 37.0 dBf, (19.5 μV/75 Ω)

Signal-to-Noise Ratio Mono; 80 dB (at 65 dBf)

Stereo; 76 dB (at 85 dBf)

Distortion Mono; 0.2 % (1 kHz)

Stereo; 0.3 % (1 kHz)

Capture Ratio 1 dB

Alternate Channel Selectivity 65 dB (400 kHz)

Stereo Separation 45 dB (1 kHz)

Frequency Response 30 Hz to 15 kHz (± 0.5) dB

Image Interference Ratio 50 dB

IF Interference Ratio 80 dB

Antenna Input 300 Ω balanced

75 Ω unbalanced

AM Tuner Section

Frequency range

U.S. and Canadian models 530 kHz to 1,700 kHz

Multi-voltage model

With 10 kHz step 530 kHz to 1,700 kHz

With 9 kHz step 531 kHz to 1,602 kHz

Sensitivity (IHF, Loop antenna) 300 μV/m

Selectivity 25 dB

Signal-to-Noise Ratio 50 dB

Antenna Loop antenna

Miscellaneous

Power requirements

U.S. and Canadian models AC 120 V, 60 Hz

Multi-voltage model AC 110 V/120-127 V/220 V/
240 V (switchable) 50/60 Hz

Power consumption

U.S. and Canadian models 440 W, 550 VA

Multi-voltage model 620 W

In standby condition 3 W

AC Outlets

U.S. and Canadian models

SWITCHED x 2 TOTAL 50 W MAX

UNSWITCHED x 1 200 W MAX

Multi-voltage model

SWITCHED x 2 TOTAL 100 W MAX

UNSWITCHED x 1 200 W MAX

Dimensions 420 (W) x 125.5 (H) x 395 (D) mm

16-7/16 (W) x 4-15/16 (H) x 15-9/16 (D) in

Weight (without package) 10.7 kg (23 lb 10 oz)

Furnished Parts

FM T-type antenna 1

AM Loop antenna 1

Dry cell battery

VSX-5700S size "AAA" (LR03/AM-4) Alkaline 4

VSX-5600 size "AAA" (R03/JM-4) 2

Remote control unit 1

Operating Instructions 1

Template (VSX-5700S) 2

NOTE:

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