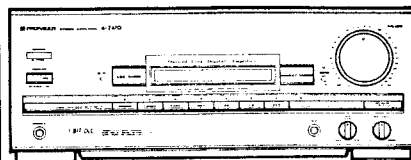


# Service Manual

**PIONEER**  
The Art of Entertainment



ORDER NO.  
ARP2157

## STEREO AMPLIFIER **A-Z470**

MODEL A-Z470 HAS FOLLOWING VERSIONS :

Type	Power requirement	Export destination
HE	AC220V, 240V(switchable) *	European continent
HB	AC220V, 240V(switchable) *	United Kingdom
HEWZIW	AC220V, 240V(switchable) *	Germany and Italy

\* : Change the primary wiring.

- This manual is applicable to the A-Z470/HE, HB and HEWZIW types.
- As to the HB and HEWZIW types, refer to page 46.
- This product is a component of a system. As to the system composition, refer to the system manual.
- This product does not function properly when independent ; to avoid malfunctions, be sure to connect it to the prescribed system component, otherwise damage may result.
- Ce manuel pour le service comprend les explications de réglage en français.
- Este manual de servicio trata del método ajuste escrito en español.

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# 1. SPECIFICATIONS

## Amplifier Section

Continuous Power Output (DIN) .....	70 W + 70 W
	(1 kHz, T.H.D. 1 %, 8 Ω)
Music power (DIN) .....	110 W + 110 W (1 kHz, T.H.D. 1 %, 8 Ω)
D/A converter section	
Signal-to-Noise Ratio .....	More than 96 dB (EIAJ)
Dinamic range .....	More than 94 dB (EIAJ)
Frequency range .....	25 Hz to 20 kHz
Total Harmonic Distortion (1 kHz, 35 W, 8 Ω)..No more than 0.06 %**	
Input sensitivity	
PHONO (MM) .....	2.5 mV
MIC .....	0.25 mV
VCR .....	150 mV
LD .....	250 mV
Output level	
DAT, VCR .....	150 mV
MUTING .....	-∞

## Power Supply/Miscellaneous

Power requirements .....	a.c.240 Volts~, 50/60 Hz
Power consumption .....	360 W
AC outlets switched (x 1) .....	50 W
Dimensions .....	360 (W) x 343 (D) x 135.5 (H) mm
Weight (without package) .....	8.6 kg

## Accessories

Operating instructions .....	1
Remote control unit .....	1
Dry cell batteries "AAA" (IEC R03/UM-4) .....	2

\*\* Measured By Audio Spectrum Analyzer.

# 2. EXPLODED VIEWS, PACKING AND 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  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

## 2.1 PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	VOL KNOB(VOLUME)	AAB1117		50	PLATE	AMR2133
	2	ROTARY KNOB(MIC LEVEL, BALANCE)	AAB1130		51	SASH	
	3	POWER BUTTON	AAD1595		52	CHASSIS	
	4	BOTTUN L(LSS MODE)	AAD1596		53	REAR PANEL	
	5	BUTTON L(DIRECT MODE)	AAD1597		54	BOTTOM PLATE	
	6	KIN BUTTON(MUTING, LSS SET))	AAD1682		55	BONNET CASE	ANE1208
	7	FUNCTION BUTTON	AAD1968		56	TRANS. HOLDER	
	8	BUTTON S(SPEAKERS)	AAD1970		57	HEAT SINK HOLDER	
	9	LENS L	AAK1757		58	VOLUME HOLDER	
	10	LENS S	AAK1758		59	HOLDER	
	11	LENS	AAK1759		60	HOLDER A	
	12	SHEET			61	HEAT SINK	
	13	SHEET			62	HEAT SINK	
	14	PVC SHEET			63	GROUND PLATE	
	15	PANEL	AAK2116		64	SHIELD CASE	
	16	.....			65	SHIELD COVER	
	17	NAME PLATE(PLASTIC)			66	OPERATING INSTRUCTIONS (Dutch, Swedish, Spanish, Portuguese)	ARC1249
	18	NAME PLATE			67	OPERATING INSTRUCTIONS (English, German, French, Italian)	ARE1181
	19	FUSE CARD			68	WARRANTY CARD	
	20	SCREW (STEEL)	ABA-283		69	.....	
	21	SCREW	ABA-298		70	DAC ASSEMBLY	AWK1385
	22	SCREW (STEEL)	ABA1009		71	MIC ASSEMBLY	
	23	SCREW (STEEL)	ABA1011		72	HEAD PHONE ASSEMBLY	
	24	SCREW	ABA1018		73	SUB TRANS ASSEMBLY	
	25	SCREW (STEEL)	ABA1047		74	POWER VR ASSEMBLY	
	26	SCREW (STEEL)	ABA1050		75	RELAY ASSEMBLY	
	27	SCREW (STEEL)	ABA1072		76	SP TERMINAL ASSEMBLY	
	28	SCREW	ABA1098		77	FUSE ASSEMBLY	
	29	SPRING	ABH1032		78	DISPLAY ASSEMBLY	AWZ3361
△	30	AC POWER CORD	ADG1019	●	79	AF ASSEMBLY	AWZ3403
	31	RUBBER CUSHION		●	80	POWER ASSEMBLY	AWZ2747
	32	.....		●	81	STANDBY ASSEMBLY	AWZ3505
	33	NYLON RIVET	AEC-510	●	82	DSP ASSEMBLY	AWK1445
	34	STRAIN RELIEF	AEC-882		83	REMOTE CONTROLLER (CU-AZ020)	AXD1194
	35	PCB SUPPORT			84	SCREW	BBZ26P060FMC
	36	CUSHION			85	SCREW	BBZ26P080FMC
	37	PCB SPACER			86	NUTS	NK90FZB
	38	.....			87	FOOT(PLASTIC)	RXA1276
	39	BATTERY (R03, AAA)			88	.....	
	40	FRONT PAD	AHA1272	△	89	FU1 FUSE(T2.5A)	AEK-403
	41	REAR PAD	AHA1273	△	90	FU2 FUSE(T2A)	AEK-017
	42	PACKING CASE	AHD2008	△	91	FU3 FUSE(T1.6A)	AEK-405
	43	LITERATURE BAG			92	FU4 FUSE(T1.6A)	AEK-405
	44	PACKING SHEET	AHG1016		93	FU5 FUSE(T2.5A)	AEK-403
	45	TERMINAL SCREW			94	T1 POWER TRANSFORMER	ATS1335
	46	MOUNTING PLATE			95	BATTERY COVER	AZN2072
	47	FRONT PANEL ASSY	AMB1761				
	48	PCB MOULD					
	49	LEG ASSY(S)					

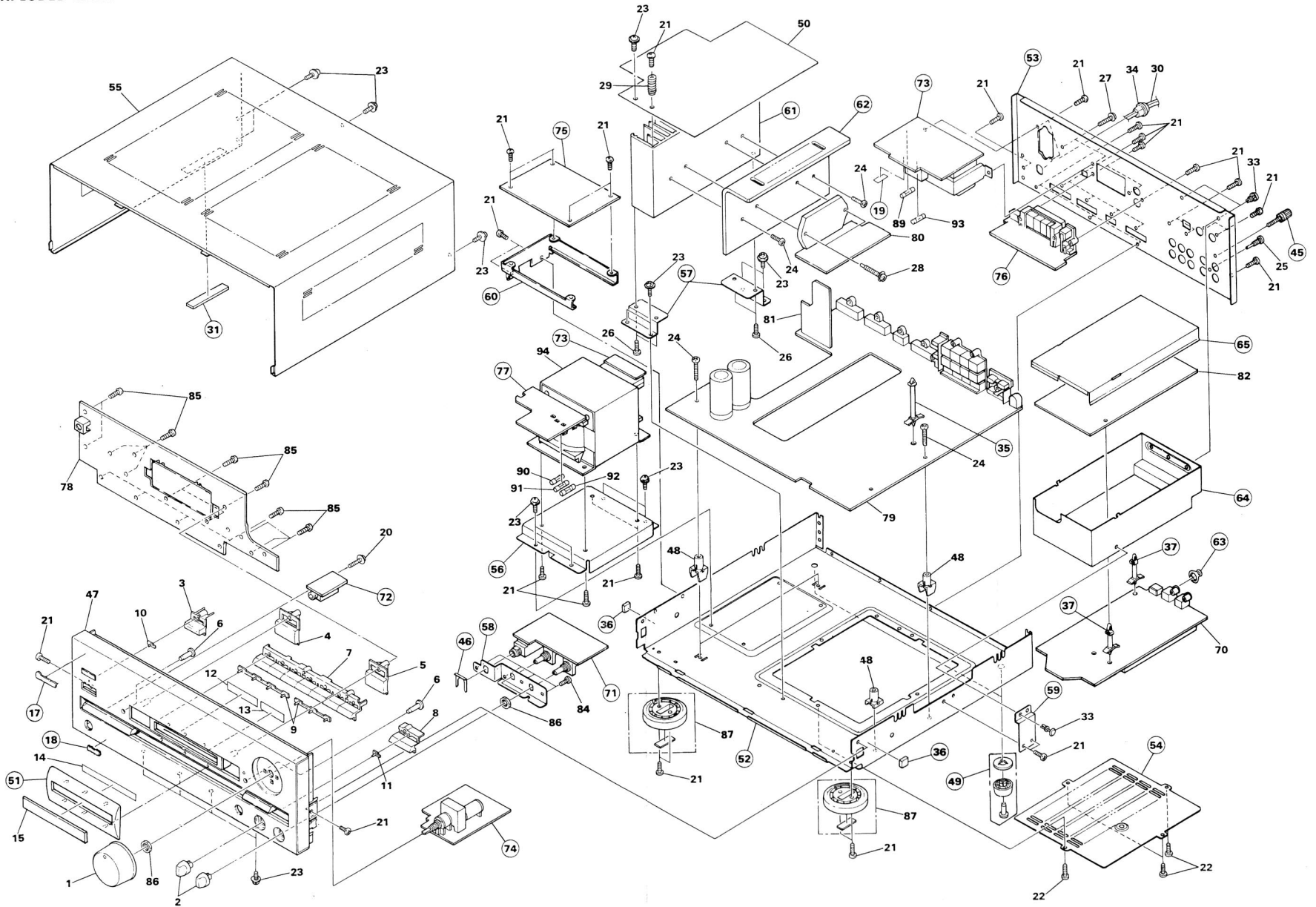
2. 2 EXPLODED VIEWS

A

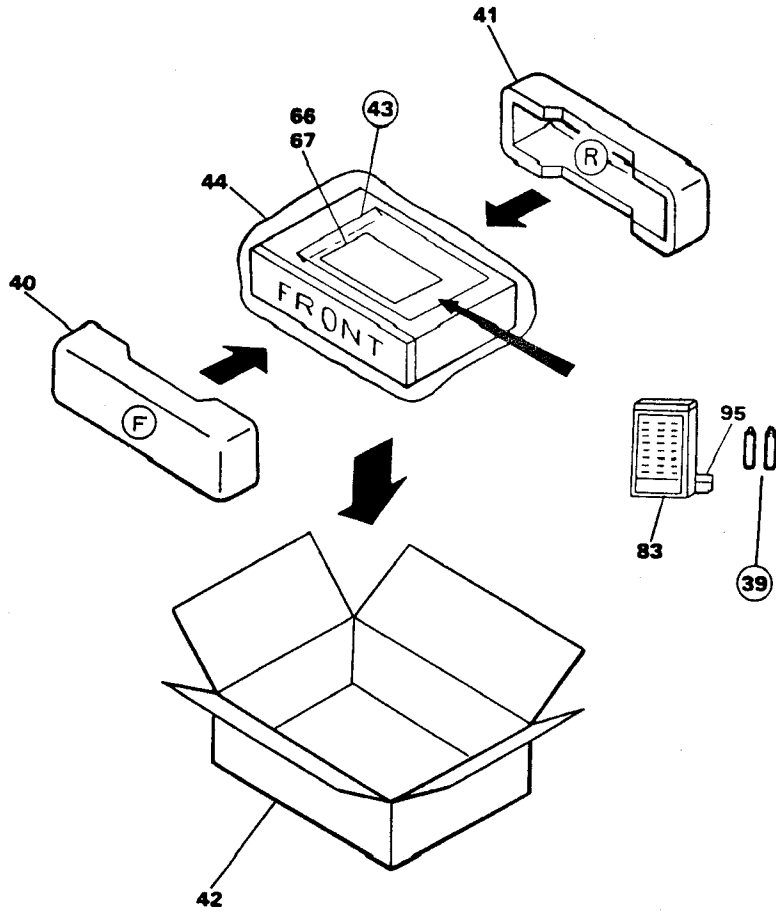
B

C

D



2.3 PACKING



A

B

C

D

### 3. 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  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

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

560Ω	56 × 10 <sup>1</sup>	561	RD1/4PS	5	6	1	J
47kΩ	47 × 10 <sup>3</sup>	473	RD1/4PS	4	7	3	J
0.5Ω	0R5		RD2H	0	R	5	K
1Ω	010		RD1P	0	1	0	K

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

5.62kΩ	562 × 10 <sup>1</sup>	5621	RD1/4SR	5	6	2	1	F
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Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
<b>DAC ASSEMBLY (AWK1385)</b>			C810	ELECTR.CAPACITOR	CEAS010M50
<b>SEMICONDUCTORS</b>			C811	AUDIO FILM CAPACITOR	CFTXA224J50
	IC801 LOGIC IC	TC74HCU04AP	C812	ELECTR.CAPACITOR	CEAS470M10
	IC802 DIGITAL I.F. IC	PD0037	C813	CERAMIC CAPACITOR	ACG1021
	IC803 IC DIGITAL FILTER	PD0060	C814	CERAMIC CAPACITOR	CCDCH220J50
	IC804 LOGIC IC	TC74HC32AP	C815	ELECTR.CAPACITOR	CEAS101M10
	IC805 D/A CONVERTER	SAA7350GP	C816	CERAMIC CAPACITOR	ACG1022
	IC806,IC807 IC	NJM072D-E	C818	ELECTR.CAPACITOR	CEAS101M10
	IC808 OP AMP IC	RC4558DXP	C819	MICA CAPACITOR	CMA220J500
	Q801,Q802 TRANSISTOR	RN2203	C820	ELECTR.CAPACITOR	CEAS470M10
	Q804,Q805 TRANSISTOR	2SC2458	C821,C822	CERAMIC CAPACITOR	CKDYX473M16
	Q806,Q807 TRANSISTOR	2SC2878	C823	CERAMIC CAPACITOR	ACG1021
	Q808,Q809 TRANSISTOR	RN1203	C824	ELECTR.CAPACITOR	CEAS010M50
	Q810 TRANSISTOR	RN2203	C825	ELECTR.CAPACITOR	CEAS101M10
	Q811 TRANSISTOR	RN2201	C826	CERAMIC CAPACITOR	ACG1021
	Q812 TRANSISTOR	RN2203	C827	CERAMIC CAPACITOR	CKDYX473M16
	D801-D810 DIODE	HSS104-02	C828	ELECTR.CAPACITOR	CEAS470M10
	D811 ZENER DIODE	RD6.2ESB	C829	CERAMIC CAPACITOR	CKDYX473M16
<b>COIL</b>			C830	ELECTR.CAPACITOR	CEAS470M10
	L801 AXIAL INDUCTOR	LAU330K	C831,C832	CERAMIC CAPACITOR	ACG1019
	L803 BEAD FILTER	ATX1008	C833,C834	CERAMIC CAPACITOR	CCDSL390J50
	L804 FERRITE BEAD	ATX1008	C835	CERAMIC CAPACITOR	ACG1019
	L807,L808 AXIAL INDUCTOR	LAU010M	C836	CERAMIC CAPACITOR	CKDYB471K50
	L809 FERRITE BEAD	ATX1008	C837,C838	CERAMIC CAPACITOR	CCDSL390J50
	L810-L813 AXIAL INDUCTOR	LAU010M	C839,C840	CERAMIC CAPACITOR	CKDYX473M16
	L814 FERRITE BEAD	ATX1008	C841,C842	ELECTROLYTIC CAPACIT	CEAS470M10
	L817 AXIAL INDUCTOR	LAU010M	C843	CERAMIC CAPACITOR	CKDYX473M16
	L818 FERRITE BEAD	ATX1008	C844,C845	CERAMIC CAPACITOR	CKDYB222K50
	L819,L820 AXIAL INDUCTOR	LAU010M	C847	ELECTR.CAPACITOR	CEAS101M10
	L821,L822 AXIAL INDUCTOR	LAU220K	C848	CERAMIC CAPACITOR	CKDYX473M16
	L823-L826 AXIAL INDUCTOR	LAU010M	C849-C852	ELECTROLYTIC CAPACIT	CEAS470M10
	L827 FERRITE BEAD	ATX1008	C853,C854	CERAMIC CAPACITOR	CKDYX473M16
<b>CAPACITORS</b>			C855-C858	CERAMIC CAPACITOR	ACG1017
	C805 CERAMIC CAPACITOR	CKDYX473M16	C859,C860	MYLOR FILM CAPACITOR	CQMA102J50
	C806 CERAMIC CAPACITOR	ACG1021	C861,C862	PL.STYRENE CAPACITOR	CQSA101J50
	C807 ELECTR.CAPACITOR	CEAS010M50	C863,C864	ELECTROLYTIC CAPACIT	CEYA2R2M50
	C808 CERAMIC CAPACITOR	ACG1021	C865,C866	MYLOR FILM CAPACITOR	CQMA683J50
	C809 ELECTR.CAPACITOR	CEAS101M10	C867,C868	CERAMIC CAPACITOR	ACG1018
			C869,C870	ELECTROLYTIC CAPACIT	CEYA2R2M50
			C871-C876	ELECTR.CAPACITOR	CEAS470M10

Mark	Symbol & Description	Part No.
<b>RESISTORS</b>		
	R870-R873 CARBON FILM RESISTOR	RD1/4PM390J
	Other resistors	RD1/8PM□□□J
<b>OTHERS</b>		
	DIGITAL JACK 1-P	AKB1073
	PHOTO SENSOR MODULE	AKX1015
	CN1 CONNECTOR(11P)	KPE11
	CN5 CONNECTOR(8P)	KPE8
	T801 OSC TRANSFORMER	ATX1003
<b>MIC ASSEMBLY</b>		
<b>SEMICONDUCTORS</b>		
	IC601 OP-AMP IC	RC4558DXP
	Q601,Q602 TRANSISTOR	2SC2458
	D601,D602 DIODE	HSS104-02
<b>CAPACITORS</b>		
	C601 ELECTROLYTIC CAPACIT	CEJA220M16
	C602 CERAMIC CAPACITOR	ACG1019
	C603 ELECTROLYTIC CAPACIT	CEJA3R3M50
	C604 CERAMIC CAPACITOR	ACG1017
	C605 AUDIO FILM CAPACITOR	CFTXA474J50
	C606 CERAMIC CAPACITOR	CKCYB681K50
	C607 ELECTROLYTIC CAPACIT	CEJA100M25
	C608 ELECTR.CAPACITOR	CEJA010M50
	C609,C610 ELECTR.CAPACITOR	CEAS470M10
	C611 CERAMIC CAPACITOR	CKCYF103Z50
	C612,C613 ELECTROLYTIC CAPACIT	CEJA100M25
<b>RESISTORS</b>		
	R614,R615 CARBON FILM RESISTOR	RD1/4PM390J
	VR601 VARIABLE(100K-X1)	ACS1026
	VR602 VARIABLE( 10K-X1)	ACS1025
	Other resistors	RD1/8PM□□□J
<b>OTHERS</b>		
	JACK	AKN1017
<b>HEAD PHONE ASSEMBLY</b>		
<b>CAPACITORS</b>		
	C451 CERAMIC CAPACITOR	CKDYX104M25
<b>RESISTORS</b>		
△	R453-R456 METAL OXIDE RESISTOR	RS2LMF331J
<b>OTHERS</b>		
	JACK	AKN1010
<b>SUB TRANS ASSEMBLY</b>		
<b>SEMICONDUCTORS</b>		
△	D191,D192 ZENER DIODE	RD6.2ESB3
<b>CAPACITORS</b>		
△	C191,C192 CKA (0.01/AC400V)	ACG1003
<b>OTHERS</b>		
△	AC SOCKET 1-P	AKP1034
	SOCKET 8-P	AKP1045
△	RY191 RELAY	ASR1024
	T191 POWER TRANSFORMER	ATT1115

Mark	Symbol & Description	Part No.
<b>POWER VR ASSEMBLY</b>		
<b>SEMICONDUCTORS</b>		
	IC651 OP-AMP IC	RC4558DXP
<b>CAPACITORS</b>		
	C651,C652 ELECTR.CAPACITOR	CEAS100M25
	C653 ELECTR.CAPACITOR	CEAS470M10
	C654 ELECTROLYTIC CAPACIT	CEYA470M25
	C655 CERAMIC CAPACITOR	CKCYX103M25
	C656 ELECTROLYTIC CAPACIT	CEYA470M25
	C657,C658 CERAMIC CAPACITOR	CCCSL390J50
	C661,C662 ELECTR.CAPACITOR	CEAS100M50
<b>RESISTORS</b>		
	R659-R661 CARBON FILM RESISTOR	RD1/4PM390J
	VR651 VARIABLE RESISTOR	ACX1027
	Other resistors	RD1/8PM□□□J
<b>OTHERS</b>		
	CN2 CONNECTOR(15P)	KPE15
<b>◎DISPLAY ASSEMBLY (AWZ3361)</b>		
<b>SEMICONDUCTORS</b>		
	IC701 SYSTEM CONTROL IC	PD5160A
	Q701-Q704 TRANSISTOR	DTA124ES
	Q705 TRANSISTOR	DTA143ES
	Q711 TRANSISTOR	DTC124ES
	Q712,Q713 TRANSISTOR	2SC2458
	Q716 TRANSISTOR	DTC124ES
	Q717,Q718 TRANSISTOR	2SC2458
	Q719 TRANSISTOR	2SA1048
	Q720 TRANSISTOR	2SC2458
	Q721-Q723 TRANSISTOR	2SA1048
	D701,D702 DIODE	HSS104-02
	D703 LED(RED)	AEL1099
	D704-D706 DIODE	HSS104-02
	D707,D708 LED(RED)	AEL1099
	D710-D715 LED(RED)	AEL1099
	D719-D721 DIODE	HSS104-02
	D722 LED(RED)	AEL1099
	D723 DIODE	HSS104-02
	D725,D726 LED	AEL1091
	D727 LED	AEL1074
	D728 LED(RED)	AEL1038
	D729 LED	AEL1091
	D730,D731 DIODE	HSS104-02
<b>SWITCHES</b>		
	S701-S710 SWITCH	ASG1029
	S712-S714 SWITCH	ASG1029
<b>COIL</b>		
	L701 AXIAL INDUCTOR	LAU101K
<b>CAPACITORS</b>		
	C701 CERAMIC CAPACITOR	CKCYX473M25
	C702 ELECTR.CAPACITOR	CEAS221M10
	C703,C704 CERAMIC CAPACITOR	CKCYX103M25
	C705 CERAMIC CAPACITOR	CKCYB102K50
	C706 ELECTR.CAPACITOR	CEAS010M50

Mark	Symbol & Description	Part No.
	C707 CEA (47000/5.5V)	ACH1070
	C708 ELECTR.CAPACITOR	CEAS4R7M50
	C709,C710 CERAMIC CAPACITOR	ACG1021
	C711 CERAMIC CAPACITOR	CKCYX473M25
<b>RESISTORS</b>		
	R742 RESISTOR ARRAY 100K	RA5T104J
	R744 RESISTOR ARRAY(100K)	RA6T104J
	R761 RESISTOR ARRAY (10K)	RA4T104J
	Other resistors	RD1/8PM□□□J
<b>OTHERS</b>		
	X701 CERAMIC RESONATOR SOCKET(10P)	ASS1025
	REMOTE RECEIVER UNIT	AKP1044
		AXX1010
<b>RELAY ASSEMBLY</b>		
<b>SEMICONDUCTORS</b>		
	Q451 TRANSISTOR	DTC124ES
	Q452,Q453 TRANSISTOR	2SD438
	Q454 TRANSISTOR	DTC124ES
	Q455,Q456 TRANSISTOR	2SD438
	D451-D460 ZENER DIODE	RD12ESB3
<b>COILS</b>		
	L451,L452 COIL	ATH1004
<b>CAPACITORS</b>		
	C461-C464 MYLOR FILM CAPACITOR	CQMA104J50
<b>RESISTORS</b>		
	R461-R464 CARBON FILM RESISTOR	RD1/4PMFL100J
	R474-476 METAL OXIDE RESISTOR	RS2LMF102J
	Other resistors	RD1/8PM□□□J
<b>OTHERS</b>		
	CN451 CONNECTOR(7P)	KPC7
	RY451-RY455 RELAY	ASR-112
<b>SP TERMINAL ASSEMBLY</b>		
<b>SWITCHES</b>		
	S451 SWITCH	ASH1015
<b>CAPACITORS</b>		
	C465 ELECTROLYTIC CAPACIT	CEANP4R7M100
<b>OTHERS</b>		
	PIN JACK(2P)	AKB1039
	SPEAKER TERMINAL 8-P	AKE-111
	CN453 JUMPER CONNECTOR	KPC8
<b>POWER ASSEMBLY (AWZ2747)</b>		
<b>SEMICONDUCTORS</b>		
	IC401 AUDIO IC	STK4211-5P
<b>CAPACITORS</b>		
	C401,402 CERAMIC CAPACITOR	CKDYF472Z50
	C403 ELECTR.CAPACITOR	CEAS4R7M50
	C404 ELECTROLYTIC CAPACIT	CEHAQ4R7M50
	C405,C406 CERAMIC CAPACITOR	CCDSL470J50
	C407,C408 ELECTROLYTIC CAPACIT	CEYA101M50

Mark	Symbol & Description	Part No.
	C409,410 CERAMIC CAPACITOR	CKDYB102K50
	C411,C412 ELECTR.CAPACITOR	CEAS010M50
	C413,C414 ELECTR.CAPACITOR	CEAS220M50
	C415,C416 ELECTR.CAPACITOR	CEAS470M50
	C417,C418 ELECTR.CAPACITOR	CEAS101M25
	C423 ELECTR.CAPACITOR	CEAS470M50
	C425,C426 CERAMIC CAPACITOR	CCDSL030C50
	C427-C430 ELECTROLYTIC CAPACIT	CEYA220M50
<b>RESISTORS</b>		
	R405,R406 CARBON FILM RESISTOR	RDR1/4PM563
	R411-R414 CARBON FILM RESISTOR	RD1/2PM472J
▲	R417,R418 CARBON FILM RESISTOR	RD1/4PMFL22
▲	R419 CARBON FILM RESISTOR	RD1/2PM102J
	R420 CARBON FILM RESISTOR	RD1/4PMFL10
▲	R421 CARBON FILM RESISTOR	RD1/4PMFL47
▲	R422 CARBON FILM RESISTOR	RD1/4PMFL10
	Other resistors	RD1/8PM□□□
<b>FUSE ASSEMBLY</b>		
<b>CAPACITORS</b>		
	C390 MYLOR FILM CAPACITOR	CQMA104K250
<b>AF ASSEMBLY (AWZ3403)</b>		
<b>SEMICONDUCTORS</b>		
	IC101 REGULATOR IC	UPC78M05H
	IC102 REGULATOR IC	NJM78M56FA
	IC103 REGULATOR IC	NJM79M05FA
	IC104 REGULATOR IC	UPC78M12H
	IC105 MECHANISM DRIVER IC	TA7291S
	IC201 OP-AMP IC	RC4558DXP
	IC202 LOGIC IC	TC4066BP
	IC203 LOGIC IC	MC14052BCP
	IC204 OP-AMP IC	M5218ALF
	IC205 E-SW IC	LC4966
	IC206 LOGIC IC	MC14052BCP
	IC207 OP-AMP IC	RC4558DXP
	IC208 OP-AMP IC	M5218ALF
	Q101 TRANSISTOR	2SB560
	Q102 TRANSISTOR	2SA970
	Q103-Q105 TRANSISTOR	2SC2458
	Q106 TRANSISTOR	2SD438
	Q107,Q108 TRANSISTOR	DTC124ES
	Q551 TRANSISTOR	2SA1048
	Q552 TRANSISTOR	2SC2603
	Q553 TRANSISTOR	2SA1048
	D101 DIODE	RBV602
	D102-D107 DIODE	S5566
	D108 DIODE	RB152
	D109 DIODE	HSS104-02
	D110 ZENER DIODE	RD33ESB2
	D111 ZENER DIODE	RD6.2ESB
	D112,D113 DIODE	HSS104-02
	D114 ZENER DIODE	RD3.0ESB1
	D115 DIODE	HSS104-02



Mark	Symbol & Description	Part No.
D116	ZENER DIODE	RD4.7ESB
D117	DIODE	HSS104-02
D158	ZENER DIODE	RD12ESB3

### CAPACITORS

C101	CKA (0.01/AC250V)	ACG1005-A
C102,C103	CERAMIC CAPACITOR	CKDYF103Z50
C104,C105	ELECTROLYTIC CAPACIT	ACH1031
C106,C107	ELECTR.CAPACITOR	CEAS222M16
C108	ELECTR.CAPACITOR	CEAS471M50
C109	ELECTR.CAPACITOR	CEAS332M25
C110	ELECTR.CAPACITOR	CEHAQ101M50
C111,C112	ELECTR.CAPACITOR	CEAS101M50
C113	ELECTROLYTIC CAPACIT	CEHAQ220M50
C114	ELECTROLYTIC CAPACIT	CEHAQ470M50

C115	ELECTR.CAPACITOR	CEHAQ101M50
C116	ELECTROLYTIC CAPACIT	CEHAQ221M10
C117	ELECTR.CAPACITOR	CEAS100M25
C118	CERAMIC CAPACITOR	CKCYX103M25
C119	ELECTR.CAPACITOR	CEAS221M10

C120	ELECTR.CAPACITOR	CEAS010M50
C121	CERAMIC CAPACITOR	ACG1021-A
C160	ELECTR.CAPACITOR	CEAS101M50
C201,C202	CERAMIC CAPACITOR	ACG1017-A
C203,C204	ELECTR.CAPACITOR	CEAS2R2M50

C205,C206	ELECTR.CAPACITOR	CEAS3R3M50
C206	ELECTR.CAPACITOR	CEAS3R3M50
C207,C208	CERAMIC CAPACITOR	ACG1017-A
C209,C210	CERAMIC CAPACITOR	CKCYB152K50
C211,C212	CERAMIC CAPACITOR	CKCYB562K50

C213,C214	ELECTR.CAPACITOR	CEAS010M50
C215,C216	ELECTR.CAPACITOR	CEAS470M10
C217,C218	ELECTR.CAPACITOR	CEAS4R7M50
C219,C220	ELECTR.CAPACITOR	CEAS100M25
C221,C222	ELECTROLYTIC CAPACIT	CEYA470M50

C223,C224	ELECTR.CAPACITOR	CEAS100M25
C233-C236	ELECTR.CAPACITOR	CEAS100M25
C237	CERAMIC CAPACITOR	CKDYX104M25
C238	CERAMIC CAPACITOR	CKDYF473Z50
C239,C240	ELECTR.CAPACITOR	CEAS2R2M50

C241-C244	ELECTR.CAPACITOR	CEAS100M25
C245	ELECTR.CAPACITOR	CEASR22M50
C247,C248	ELECTROLYTIC CAPACIT	CEYA470M50

### RESISTORS

△	R101,R102	METAL OXIDE RESISTOR	RS2LMFR22J
△	R103	METAL OXIDE RESISTOR	RS2LMF222J
△	R105,R106	CARBON FILM RESISTOR	RD1/4PMF470J
△	R121,R122	METAL OXIDE RESISTOR	RS1LMF8R2J
△	R129	CARBON FILM RESISTOR	RD1/2PMFL2R2J

	R130,R131	CARBON FILM RESISTOR	RD1/2PM472J
	R132-R134	CARBON FILM RESISTOR	RD1/4PM100J
△	R135	CARBON FILM RESISTOR	RD1/4PM100J
△	R136	METAL OXIDE RESISTOR	RS3LMF2R2J
	R217,R218	CARBON FILM RESISTOR	RD1/4PM390J

△	R289,R290	CARBONFILM RESISTOR	RD1/8PM104J
	Other resistors		RD1/8PM□□□J

Mark	Symbol & Description	Part No.
<b>OTHERS</b>		
	PHONO JACK 4-P	AKB-115
	PIN JACK(6P)	AKB1123
	PLUG(10P)	AKM1037
	JACK	AKN-203
	SOCKET(4P)	AKP1046
	SOCKET(14P)	AKP1048
	SOCKET(15P)	AKP1049
	SOCKET(13P)	AKP1052
	SCREW	PBZ30P080FMC

### ●STANDBY ASSEMBLY (AWZ3505)

#### SEMICONDUCTORS

IC151	REGULATOR IC	NJM78M56FAS
Q152	TRANSISTOR	2SB560
Q554	TRANSISTOR	2SD438
D151-D154	DIODE	S5566
D156	ZENER DIODE	RD33ESB2

D157	ZENER DIODE	RD6.2ESB
------	-------------	----------

#### CAPACITORS

C151	ELECTROLYTIC CAPACIT	CEHAQ222M16
C152	ELECTROLYTIC CAPACIT	CEHAQ471M16
C153,C156	ELECTROLYTIC CAPACIT	CEHAQ221M50
C157	ELECTROLYTIC CAPACIT	CEHAQ220M50
C158	ELECTROLYTIC CAPACIT	CEHAQ470M50
C159	ELECTROLYTIC CAPACIT	CEHAQ221M10

#### RESISTORS

△	R151,R152	METAL OXIDE RESISTOR	RS3LMF122J
△	R153	METAL OXIDE RESISTOR	RS2LMF222J
△	R157	CARBON FILM RESISTOR	RD1/4PMFL4R7J
	Other resistors		RD1/8PM□□□J

### DSP ASSEMBLY (AWK1445)

#### SEMICONDUCTORS

IC901-IC903	OP-AMP IC	RC4558DXP
IC904	AD CONVERTER IC	TD6726N
IC905	DSP IC	PD0055
IC906,IC907	MEMORY IC	MB81464-12
IC908	CONTROL MCU	PDG071A

Q901	TRANSISTOR	DTA143ES
D901,D902	DIODE	HSS104-02

#### COILS, FILTERS

F901,F902	FILTER	ATF1071
L901-L903	AXIAL INDUCTOR	LAU330K
L904	AXIAL INDUCTOR	LAUR22M
L905,L906	AXIAL INDUCTOR	LAU220K
L999	AXIAL INDUCTOR	LAU330K

#### CAPACITORS

C901,C902	ELECTR.CAPACITOR	CEAS2R2M50
C903,C904	MYLOR FILM CAPACITOR	CQMA563J50
C905,C906	ELECTR.CAPACITOR	CEAS220M25
C907,C908	PL.STYRENE CAPACITOR	CQSA202J50
C909,C910	CERAMIC CAPACITOR	CCCSL151J50

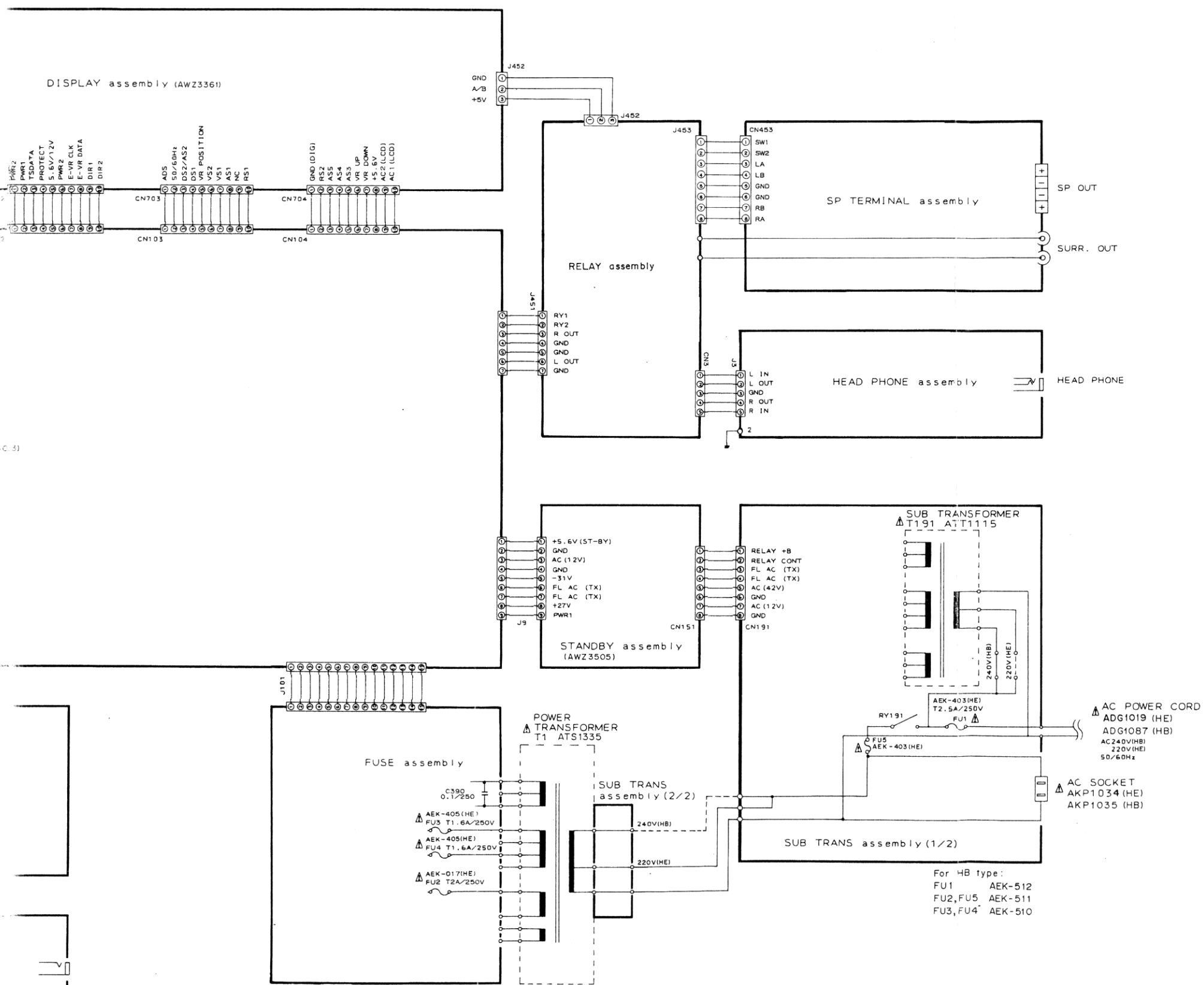
Mark	Symbol & Description	Part No.
C911,C912	CERAMIC CAPACITOR	CCCSL180J50
C913-C916	CERAMIC CAPACITOR	CKCYX473M25
C917,C918	ELECTROLYTIC CAPACIT	CEANP470M16
C919	CERAMIC CAPACITOR	CCDCH100D50
C920	CERAMIC CAPACITOR	CCDCH330J50
<b>C921</b>	<b>CERAMIC CAPACITOR</b>	<b>CKDYF473Z50</b>
C922	CERAMIC CAPACITOR	CCDCH100D50
C923	CERAMIC CAPACITOR	CKDYF473Z50
C924	ELECTR.CAPACITOR	CEAS470M10
C925	CERAMIC CAPACITOR	ACG1022
C926	ELECTR.CAPACITOR	CEAS470M25
C927	CERAMIC CAPACITOR	ACG1022
C928-C930	ELECTR.CAPACITOR	CEAS470M25
C931	ELECTR.CAPACITOR	CEAS010M50
C932	CERAMIC CAPACITOR	ACG1022
C933	ELECTR.CAPACITOR	CEAS101M16
C934	ELECTR.CAPACITOR	CEAS101M50
C935	CERAMIC CAPACITOR	CKDYF473Z50
C936	CERAMIC CAPACITOR	ACG1021
C937,C938	CERAMIC CAPACITOR	CCDCH100D50
C939	CERAMIC CAPACITOR	ACG1022
C940	CERAMIC CAPACITOR	ACG1022
C941	CERAMIC CAPACITOR	CKDYF473Z50
C943,C944	ELECTR.CAPACITOR	CEAS101M50
C945	CERAMIC CAPACITOR	CKDYF473Z50
C947,C948	CERAMIC CAPACITOR	ACG1021

**RESISTORS**

R952,R953	CARBON FILM RESISTOR	RD1/4PM390J
R955	RESISTOR ARRAY (10K)	RA7T103J
VR901	VR	VRTB6VS102
VR902	VR	VRTB6VS102
	Other resistors	RD1/8PM□□□J

**OTHERS**

CN6	CONNECTOR(15P)	KPE15
CN7	CONNECTOR(12P)	KPE12
X901	CRYSTAL RESONATOR	ASS1036
X902	CRYSTAL RESONATOR	ASS1035
X903	CRYSTAL RESONATOR	ASS1015



1.RESISTORS :

Indicated in  $\Omega$ , 1/8, 1/4W,,  $\pm 5\%$  tolerance unless otherwise noted  
 k; k $\Omega$ , M; M $\Omega$ , (F);  $\pm 1\%$ , (G);  $\pm 2\%$ , (K);  $\pm 10\%$ , (M);  
 $\pm 20\%$  tolerance.

2.CAPACITORS :

Indicated in capacity ( $\mu$ F)/voltage(V) unless otherwise noted p;  
 pF. Indication without voltage is 50V except electrolytic capacitor.

3.VOLTAGE, CURRENT :

$\square$  V ; Signal voltage at 70 W + 70 W, 8 $\Omega$  output(1kHz).  
 $\square$  ; DC voltage (V) at no input signal.  
 Value in ( ) is DC voltage at rated power.  
 $\square$  mA ; DC current at no input signal.

4.OTHERS :

$\rightarrow$  ; Signal route.  
 $\odot$  ; Adjusting point  
 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.  
 \* marked capacitors and resistors have parts numbers.  
 This is the basic schematic diagram, but the actual circuit may  
 vary due to improvements in design.

5.SWITCHES :

DISPLAY ASSEMBLY

- |                 |                               |
|-----------------|-------------------------------|
| S701 : POWER    | S708 : CD                     |
| S702 : LSS SET  | S709 : LD                     |
| S703 : LSS MODE | S710 : VCR                    |
| S704 : PHONO    | S712 : DIRECT MODE            |
| S705 : TUNER    | S713 : MUTING                 |
| S706 : TAPE     | S714 : SPEAKERS A/B OR<br>A+B |
| S707 : DAT      |                               |

A

B

C

D

# 4. SCHEMATIC DIAGRAMS AND P.C.BOARD CONNECTION DIAGRAMS

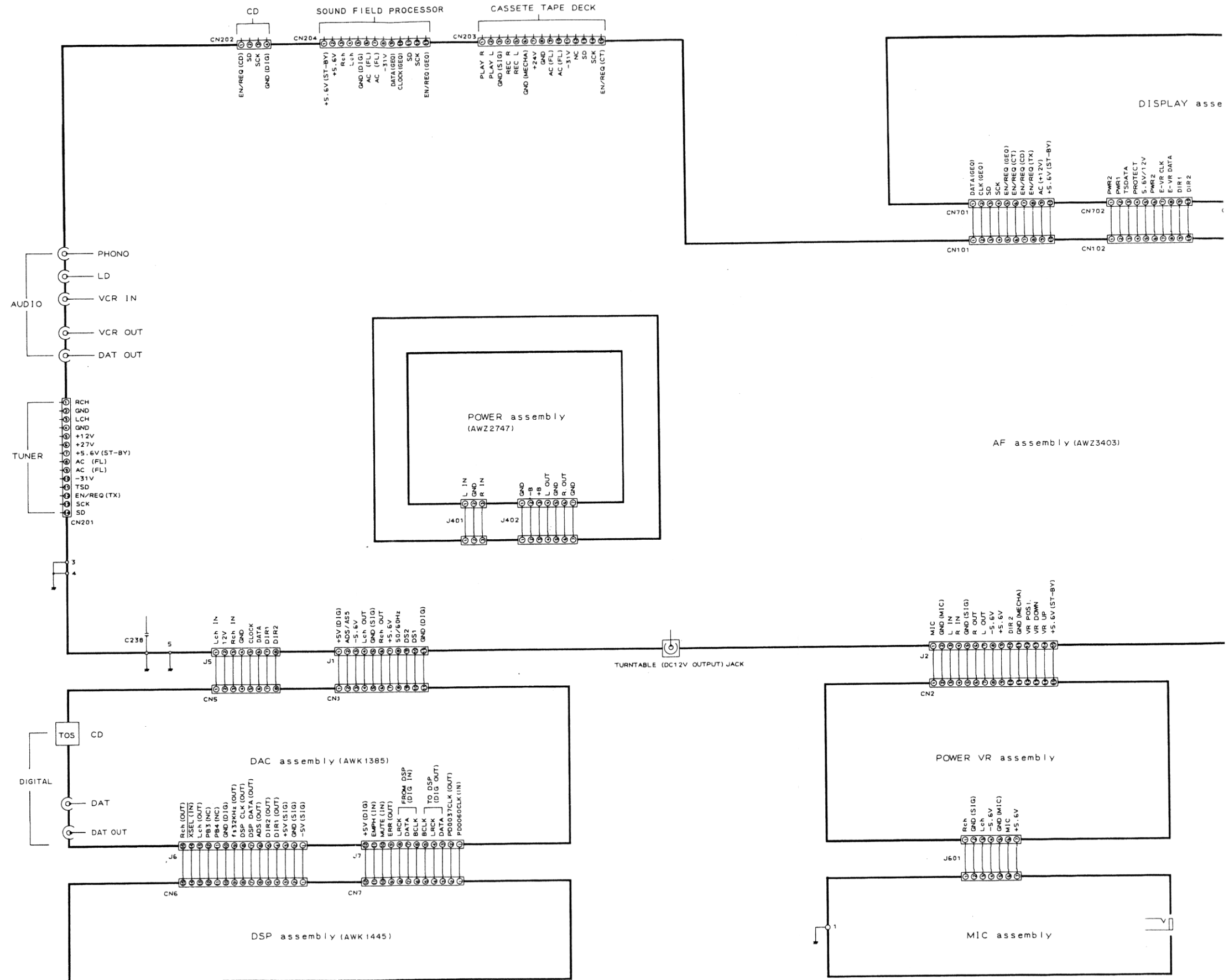
## 4.1 OVER ALL SCHEMATIC DIAGRAM

A

B

C

D



1

2

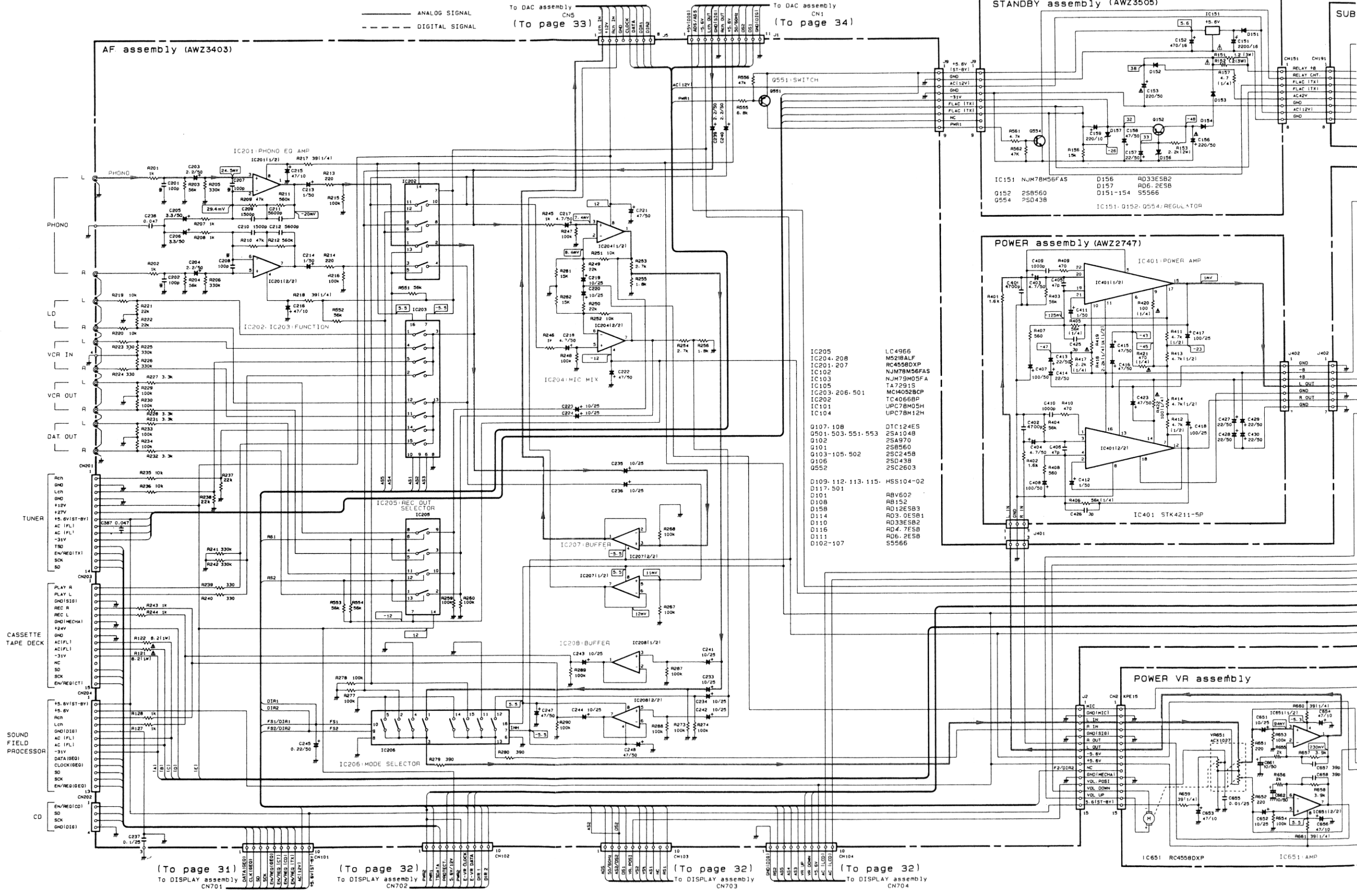
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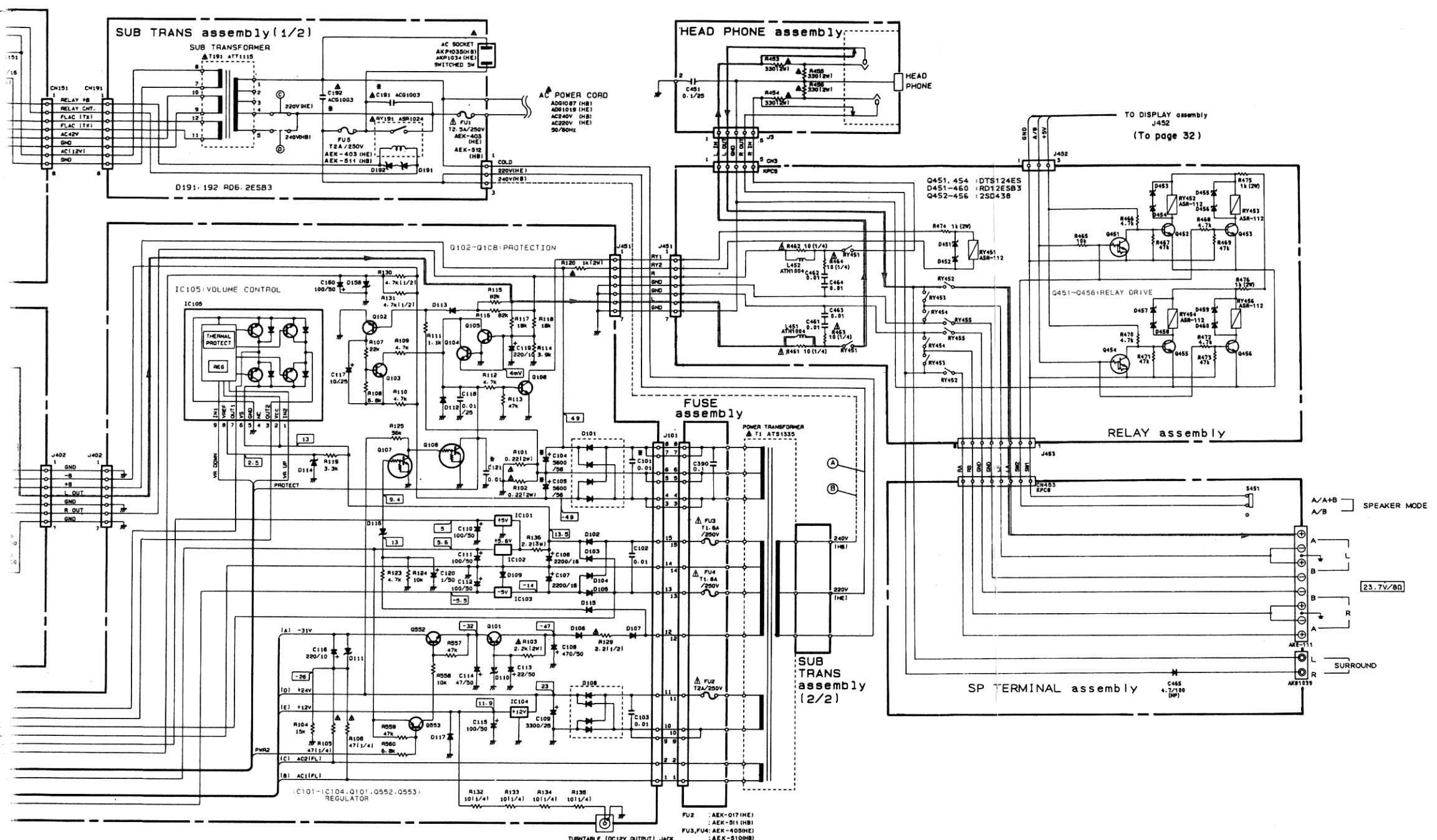
4

5

6

4.2 AF(AWZ3403), STANDBY(AWZ3505), SP TERMINAL, FUSE, POWER(AWZ2747), MIC, POWER VR, RELAY, SUB TRANS and HEAD PHONE assemblies





**Line Voltage Selection (HE, HB AND HEWZIW TYPES)**

Line voltage can be changed with the following steps.

1. Disconnect the AC power cord.
2. Remove the top cover.
3. Change the position of the connection wires to SUB TRANS ASSEMBLY (1/2) from SUB TRANS ASSEMBLY (2/2) as follows.

Voltage	Connection Wire(A)	Connection Wire(B)
220V	○	×
240V	×	○

○ : Be needed  
 × : Be needless

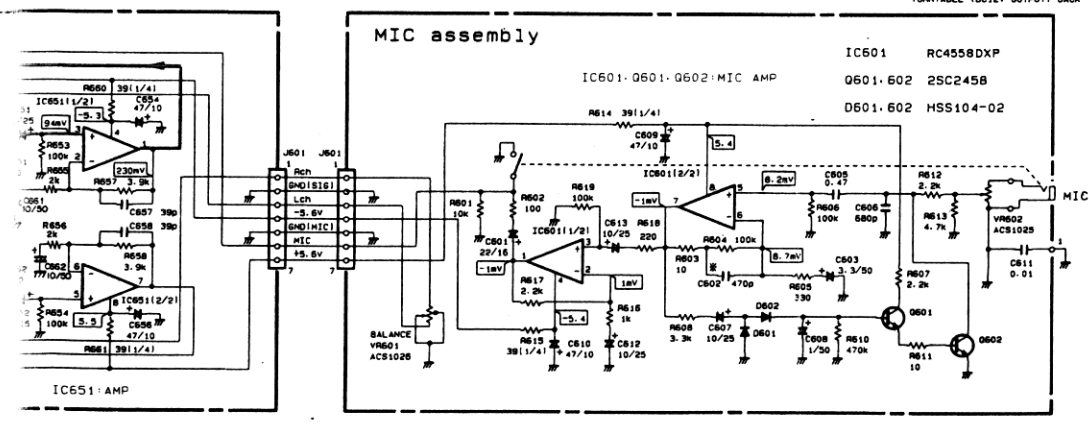
4. Change the position of the jumper wires (C) and (D) as follows. (SUB TRANS ASSEMBLY(1/2)).

Voltage	Jumper Wire(C)	Jumper Wire(D)
220V	○	×
240V	×	○

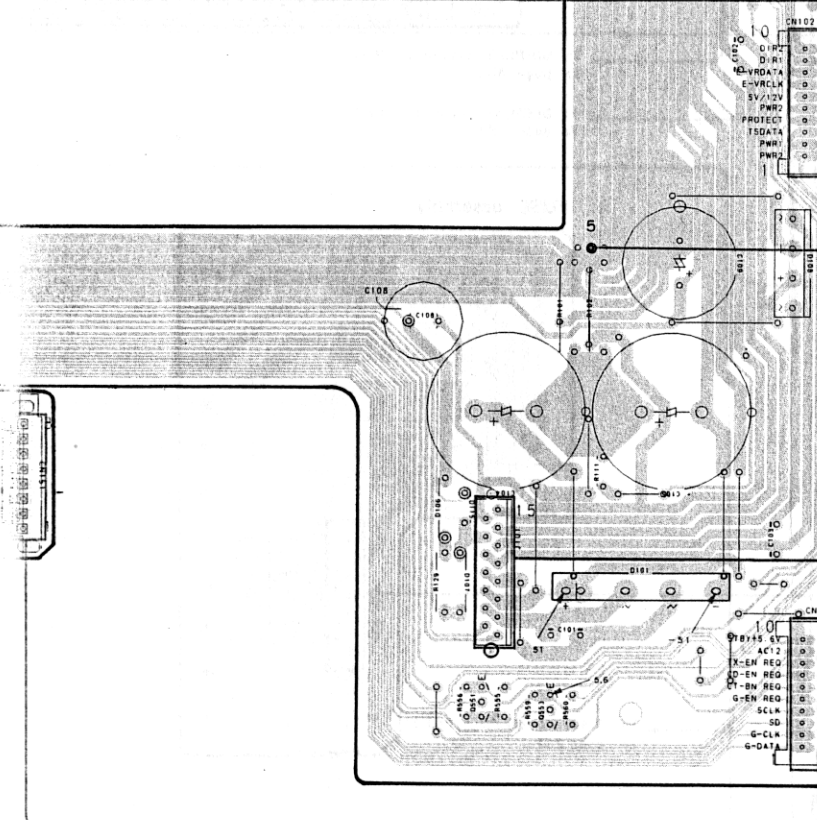
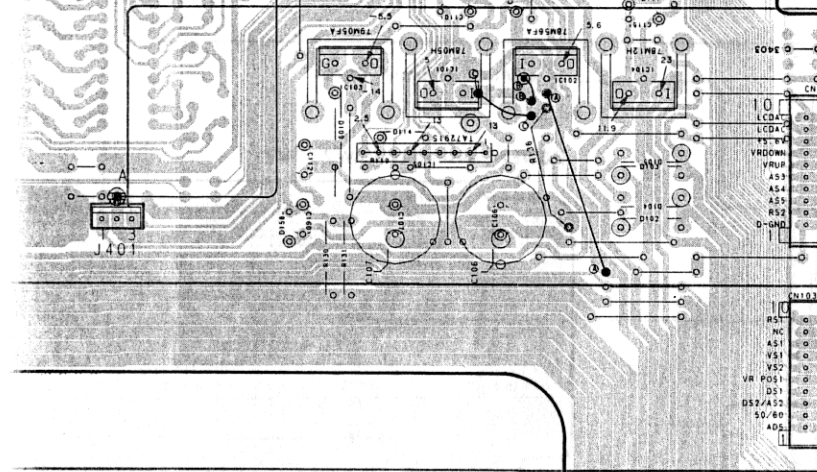
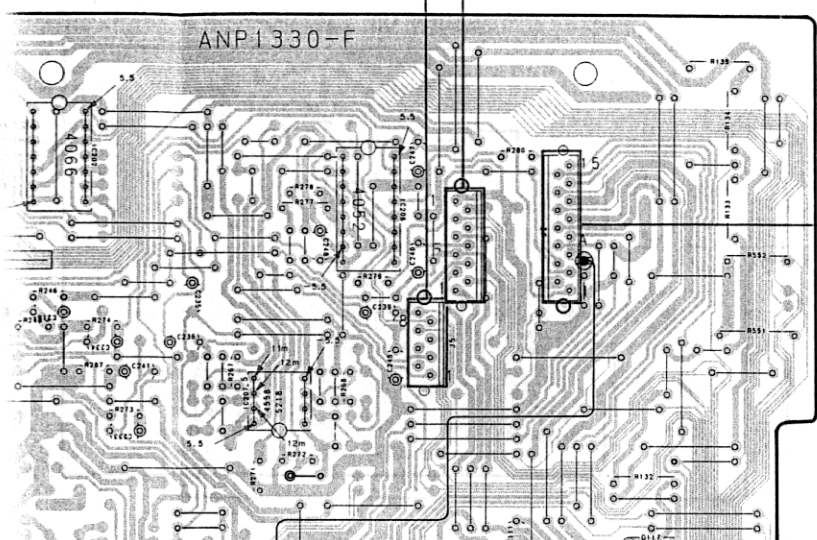
○ : Be needed  
 × : Be needless

5. Stick the line voltage label on the rear panel.

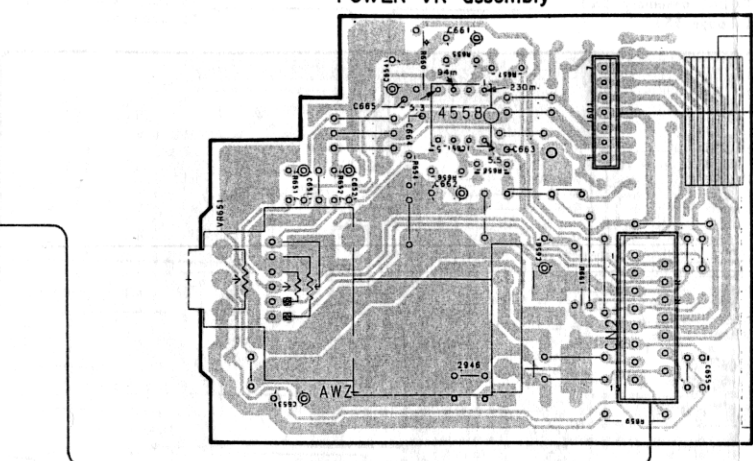
Parts No.	Description
AXX-193	220V label
AXX-192	240V label



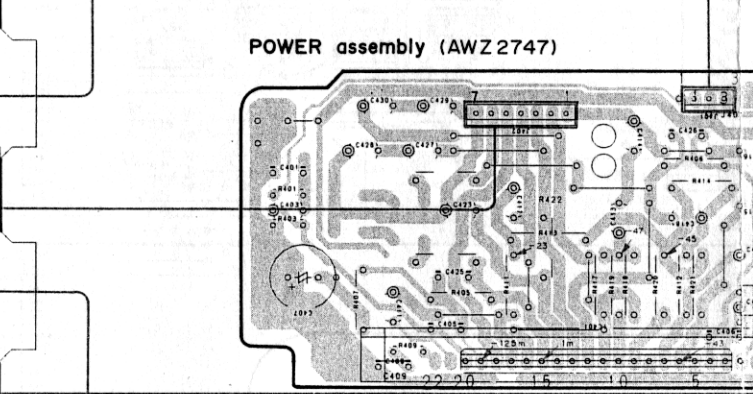
To DAC assembly CN5  
(To page 35)



To DAC assembly CN1  
(To page 35)

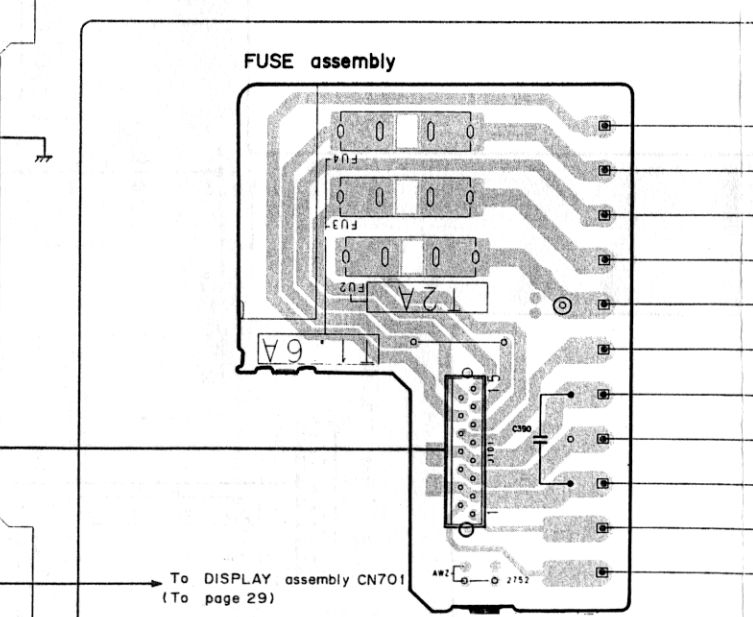


To DISPLAY assembly CN704  
(To page 30)



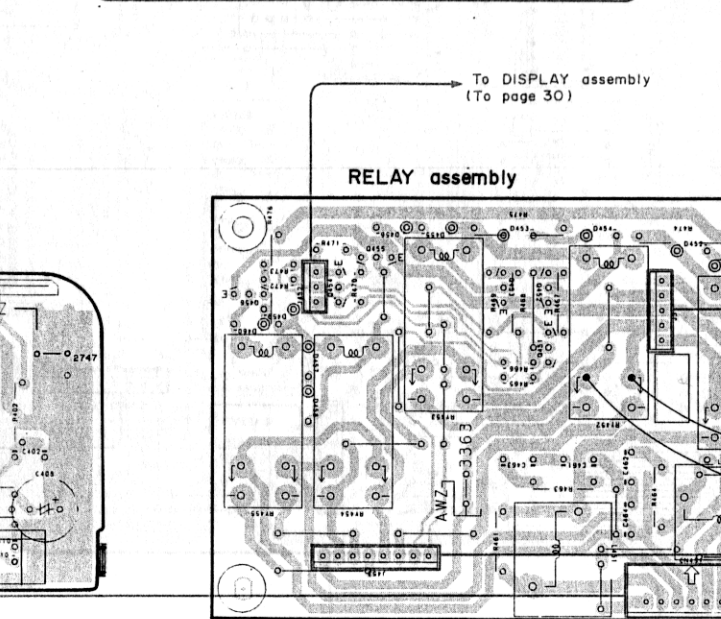
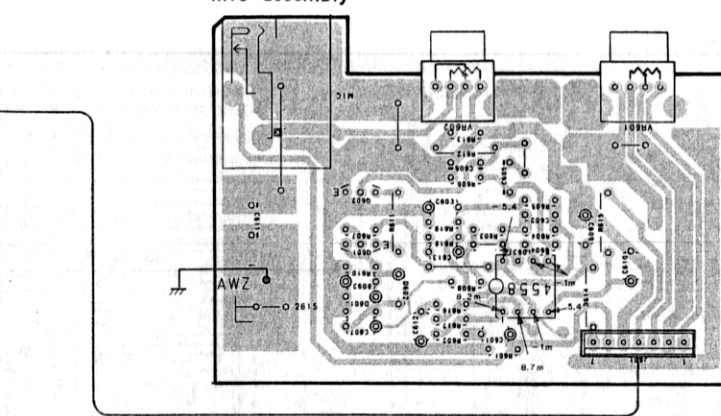
To DISPLAY assembly CN703  
(To page 30)

To DISPLAY assembly CN702  
(To page 29)

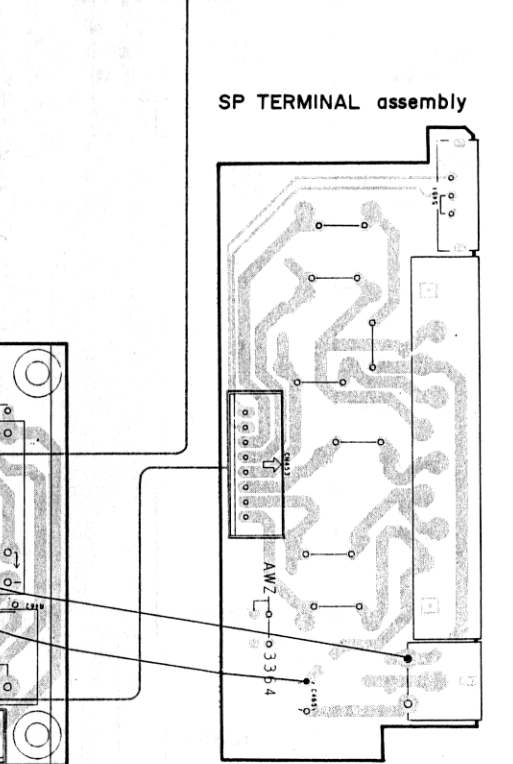
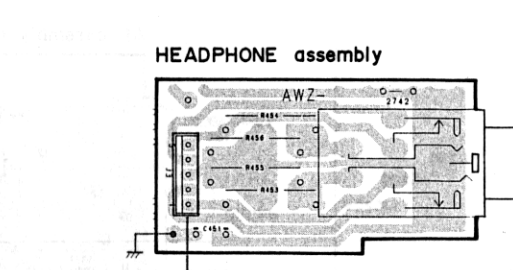


To DISPLAY assembly CN701  
(To page 29)

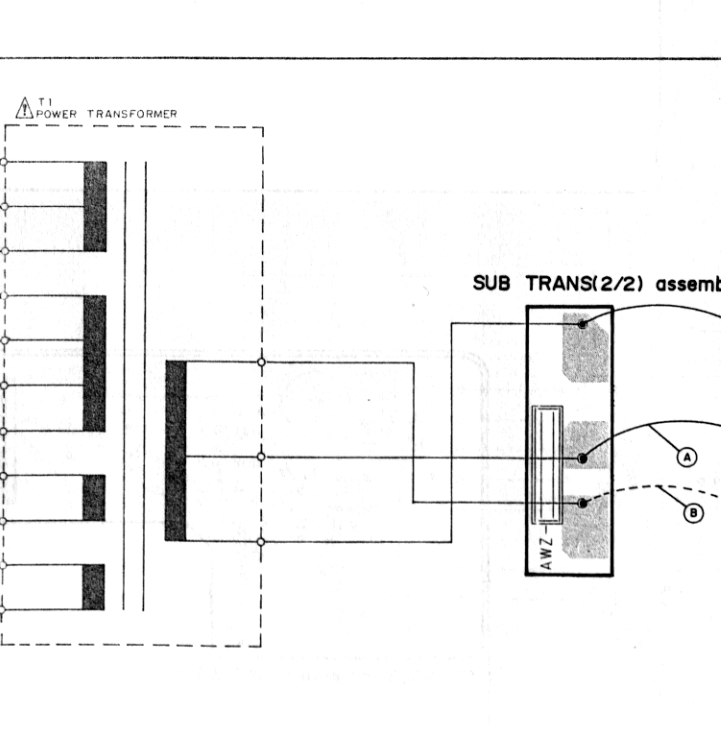
To DISPLAY assembly  
(To page 30)



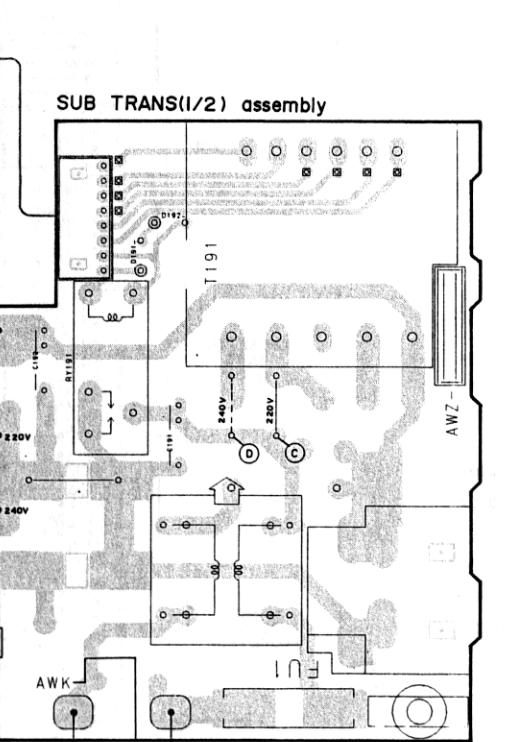
To DISPLAY assembly  
(To page 30)



To DISPLAY assembly  
(To page 30)



To DISPLAY assembly  
(To page 30)



AC POWER CORD  
220V  
240V  
50/60Hz

A  
B  
C  
D

4

5

6

7

8

9

4

5

6

7

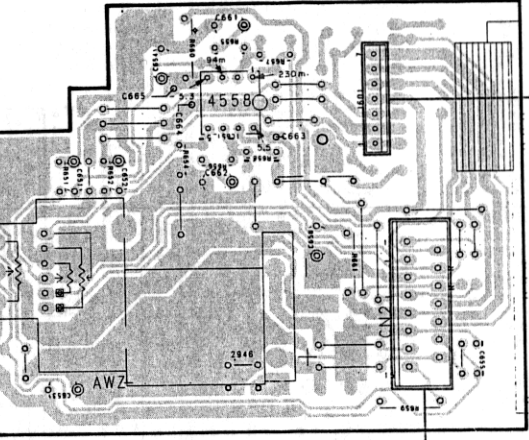
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9

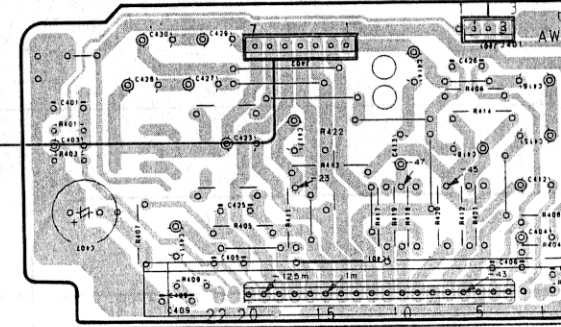
AF assembly (AWZ3403)

ANP1330-F

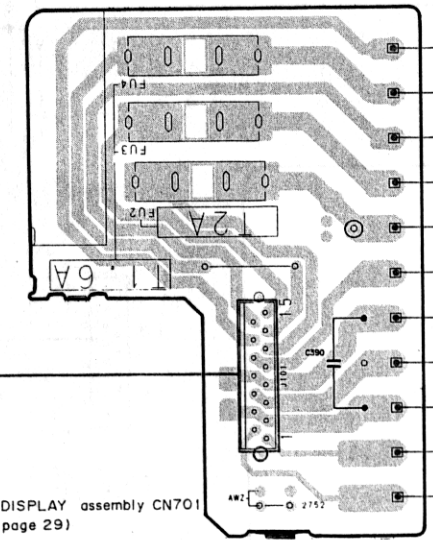
POWER VR assembly



POWER assembly (AWZ2747)



FUSE assembly



- TURNTABLE DC 12V
- PHONO
- DAT OUT
- VCR OUT
- VCR IN
- LD IN
- TUNER
- CD
- CASSETTE TAPE DECK
- SOUND FIELD PROCESSOR

- IC201
- IC202
- IC206
- IC205
- IC204
- IC203
- IC207
- IC208
- IC101
- IC105
- Q103
- Q102
- Q106
- Q104
- Q105
- Q108
- Q107
- Q101
- Q552
- Q551
- Q553

To DAC assembly CN5 (To page 35)

To DAC assembly CN1 (To page 35)

To DISPLAY assembly CN704 (To page 30)

To DISPLAY assembly CN703 (To page 30)

To DISPLAY assembly CN702 (To page 29)

To DISPLAY assembly CN701 (To page 29)

STANDBY assembly (AWZ3505)

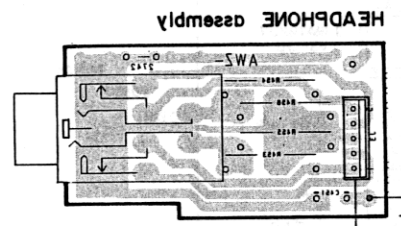


A

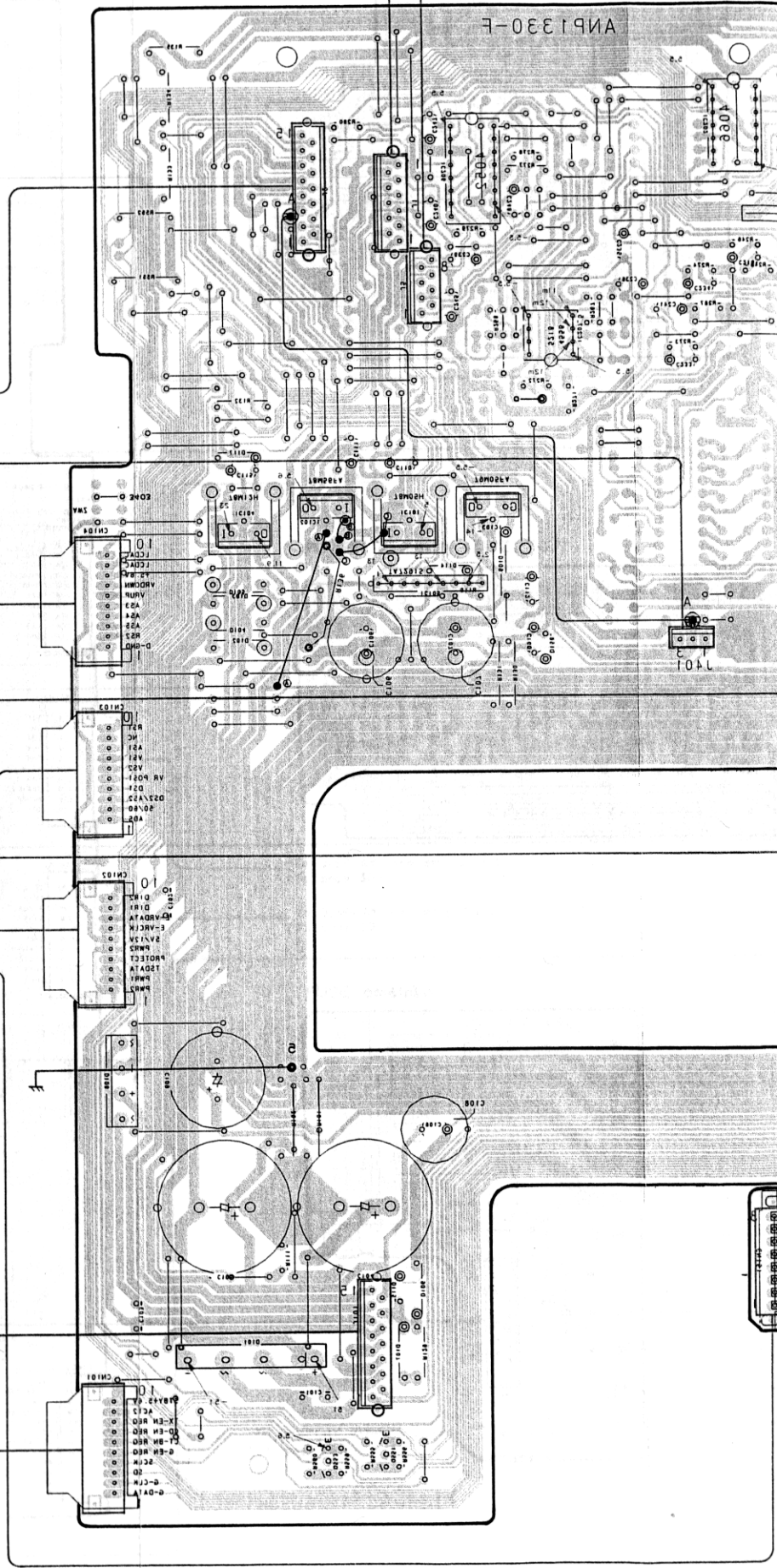
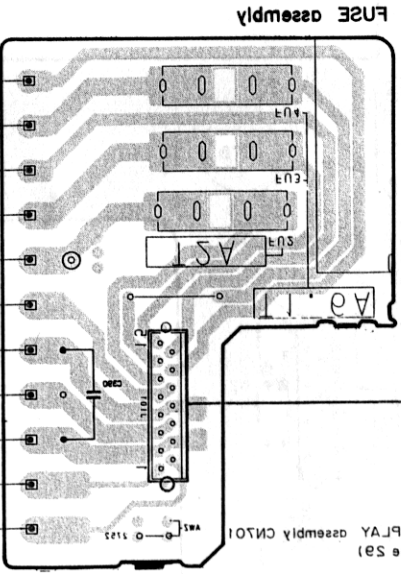
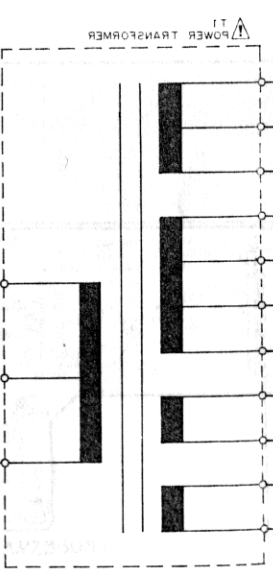
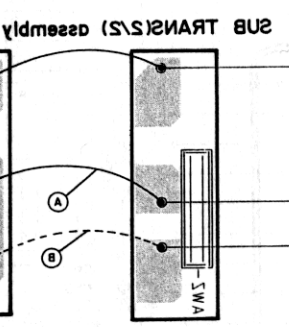
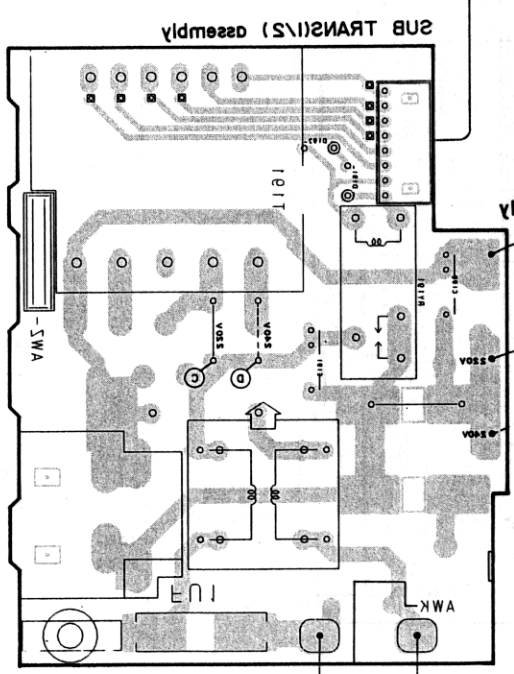
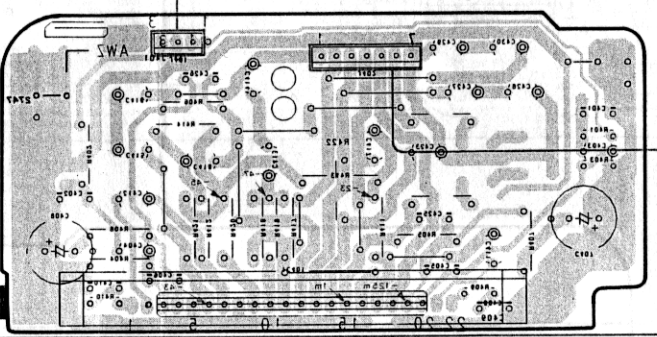
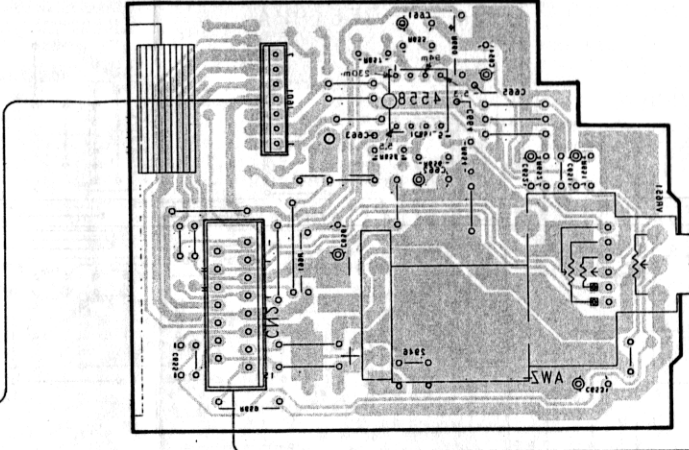
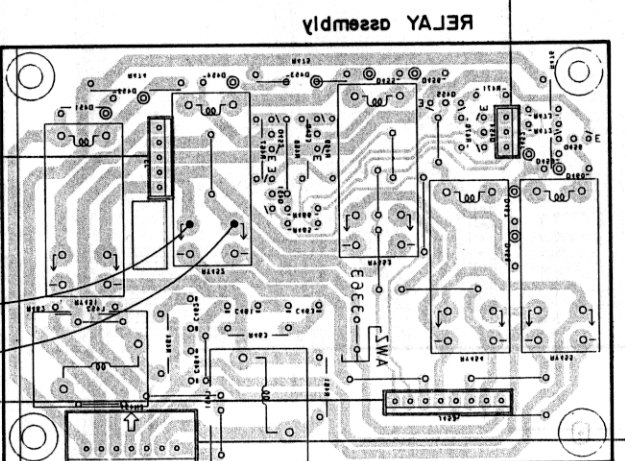
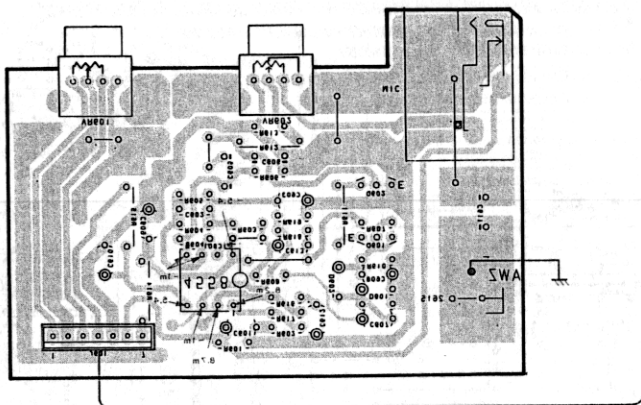
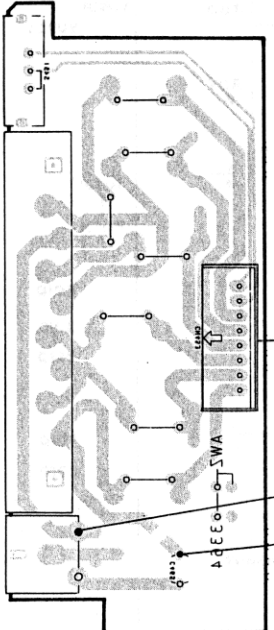
B

C

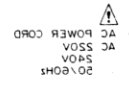
D

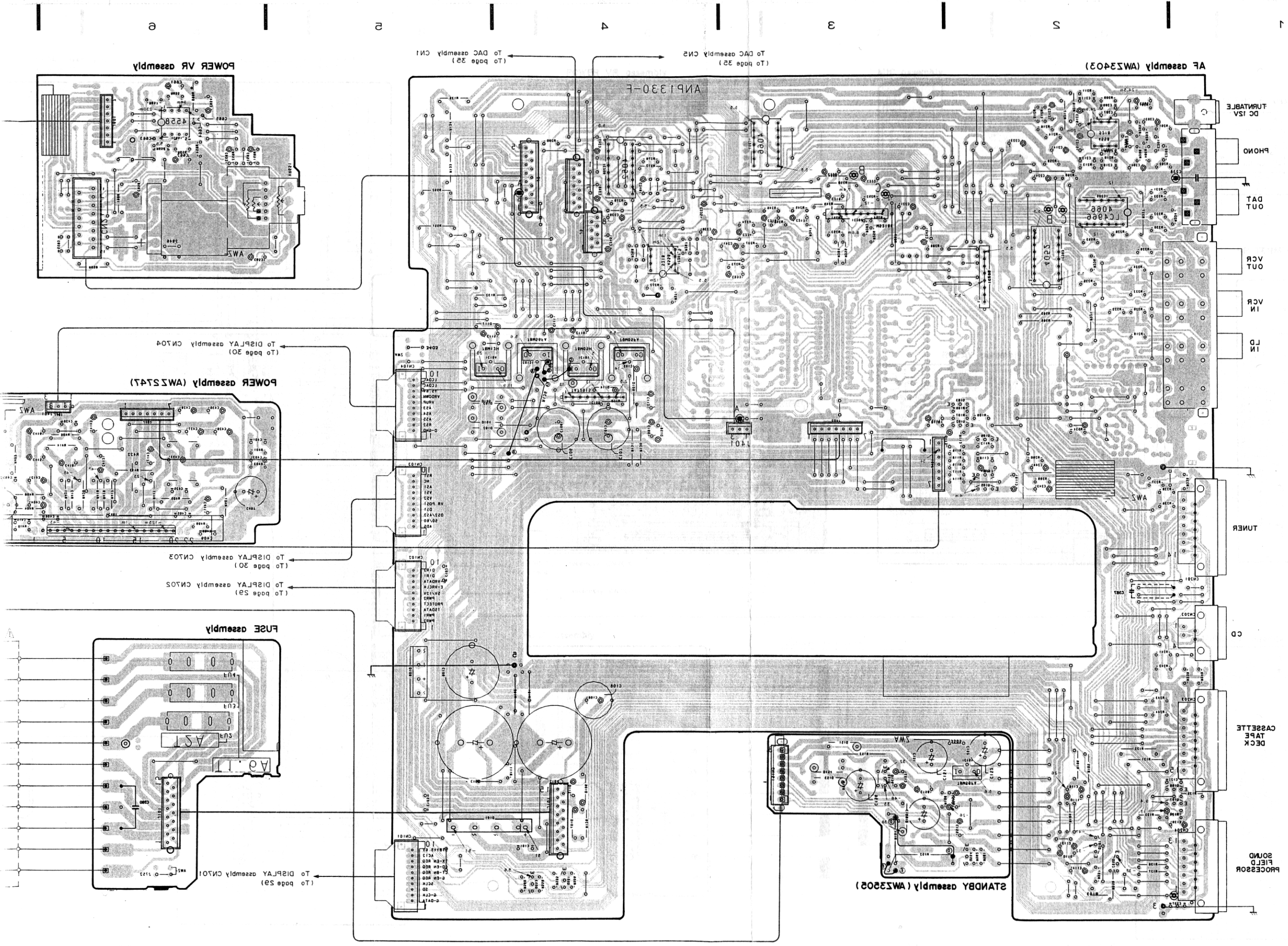


SP TERMINAL assembly



This P.C.B. connection diagram is viewed from the foil side.





- IC301
- IC305
- IC306
- IC308
- IC309
- IC101
- IC108
- 0102
- 0105
- 0106
- 0108
- 0109
- 0108
- 0107
- 0101
- 0225
- 0221
- 0222

A

B

C

D

e

2

4

3

5

1

e

2

4

3

5

1

To DAC assembly C12  
(To page 32)

To DAC assembly C12  
(To page 32)

POWER VR assembly

AF assembly (AW3403)

POWER assembly (AW3247)

FUSE assembly

STANDBY assembly (AW3202)

To DISPLAY assembly C104  
(To page 30)

To DISPLAY assembly C103  
(To page 30)

To DISPLAY assembly C105  
(To page 30)

To DISPLAY assembly C101  
(To page 30)

DC 12V FURNITABLE

PHONO

DAT OUT

VCR OUT

VCR IN

LD IN

TUNER

CD

CASSETTE DECK

FIELD SOUND PROCESSOR

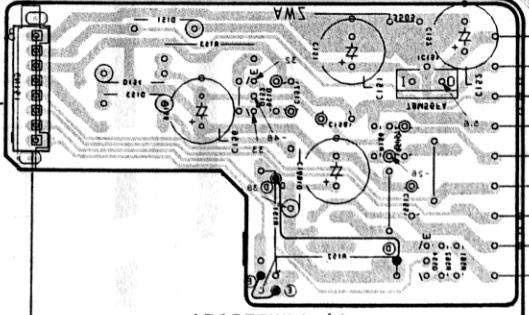
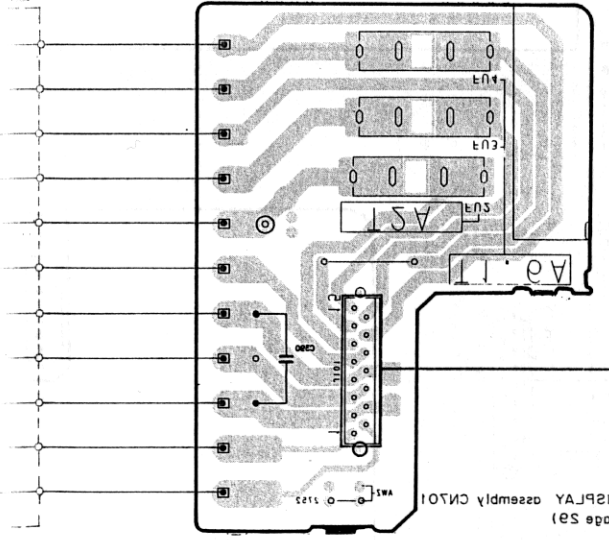
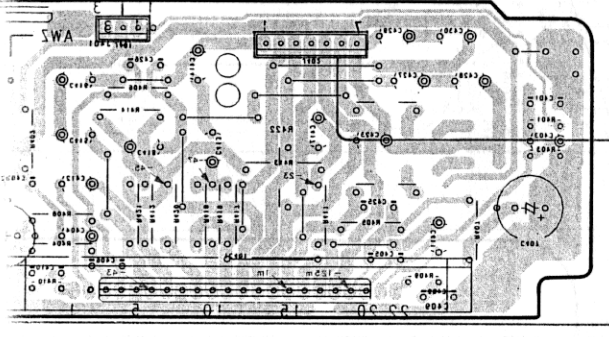
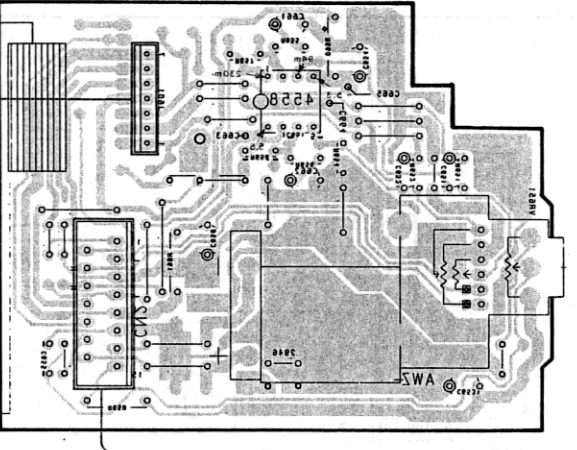
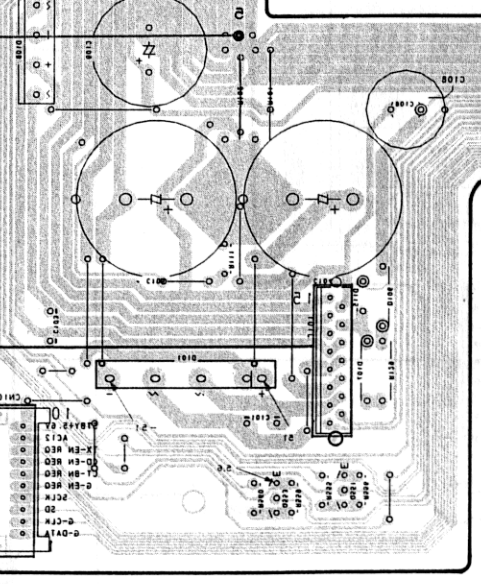
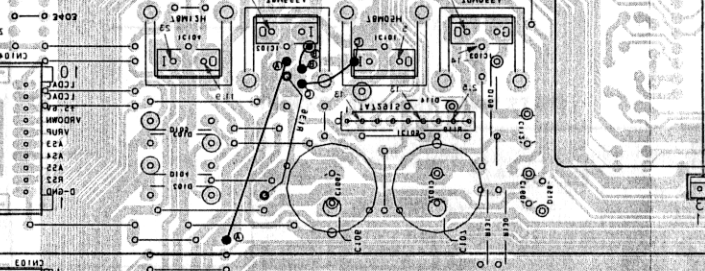
ANP1330-F

4000

1025

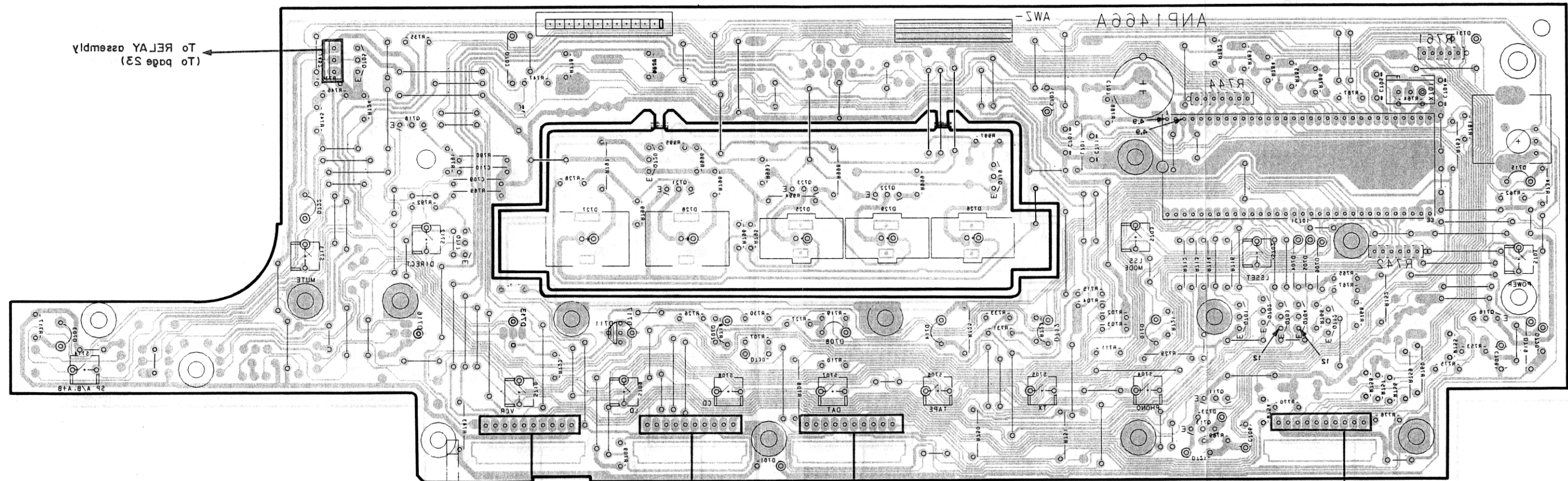
SWA

SWA



This P.C.B. connection diagram is viewed from the foil side.

DISPLAY assembly (AW3361)



To RELAY assembly  
(To page S3)

To AF assembly CN104  
(To page S5)

To AF assembly CN103  
(To page S5)

To AF assembly CN105  
(To page S5)

(To page S5)

To AF assembly CN101  
(To page S5)

IC101 0211 0213  
0204 0205 0206

0217 0218 0202

0251 0250

0253

0255

0219

0215 0203 0205

0216

A

B

C

D

A

B

C

D

1

2

3

4

5

6

1

2

3

4

5

6

4.3 DISPLAY (AWZ3361) assembly

NOTE

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

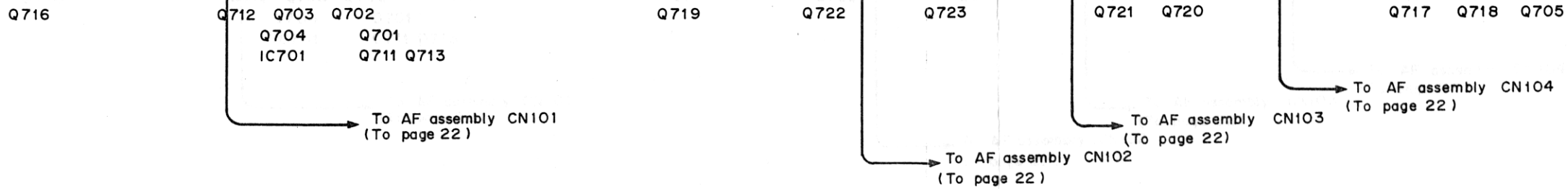
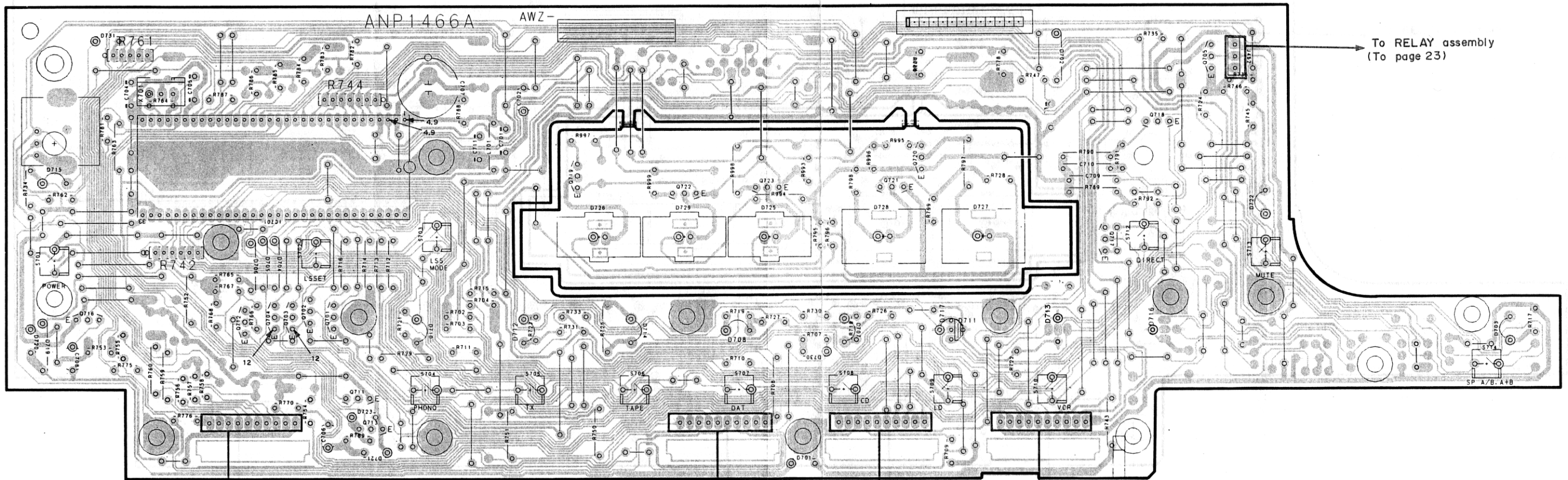
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

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.

DISPLAY assembly (AWZ3361)



1 2 3 4 5 6

DISPLAY assembly (AWZ3361)

A

B

C

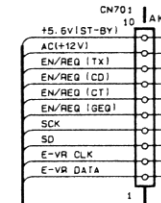
D

A

B

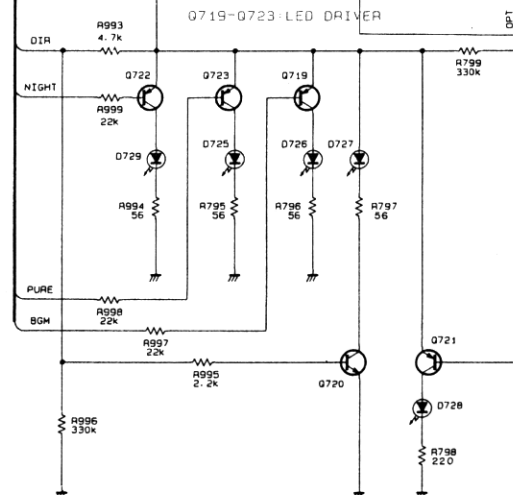
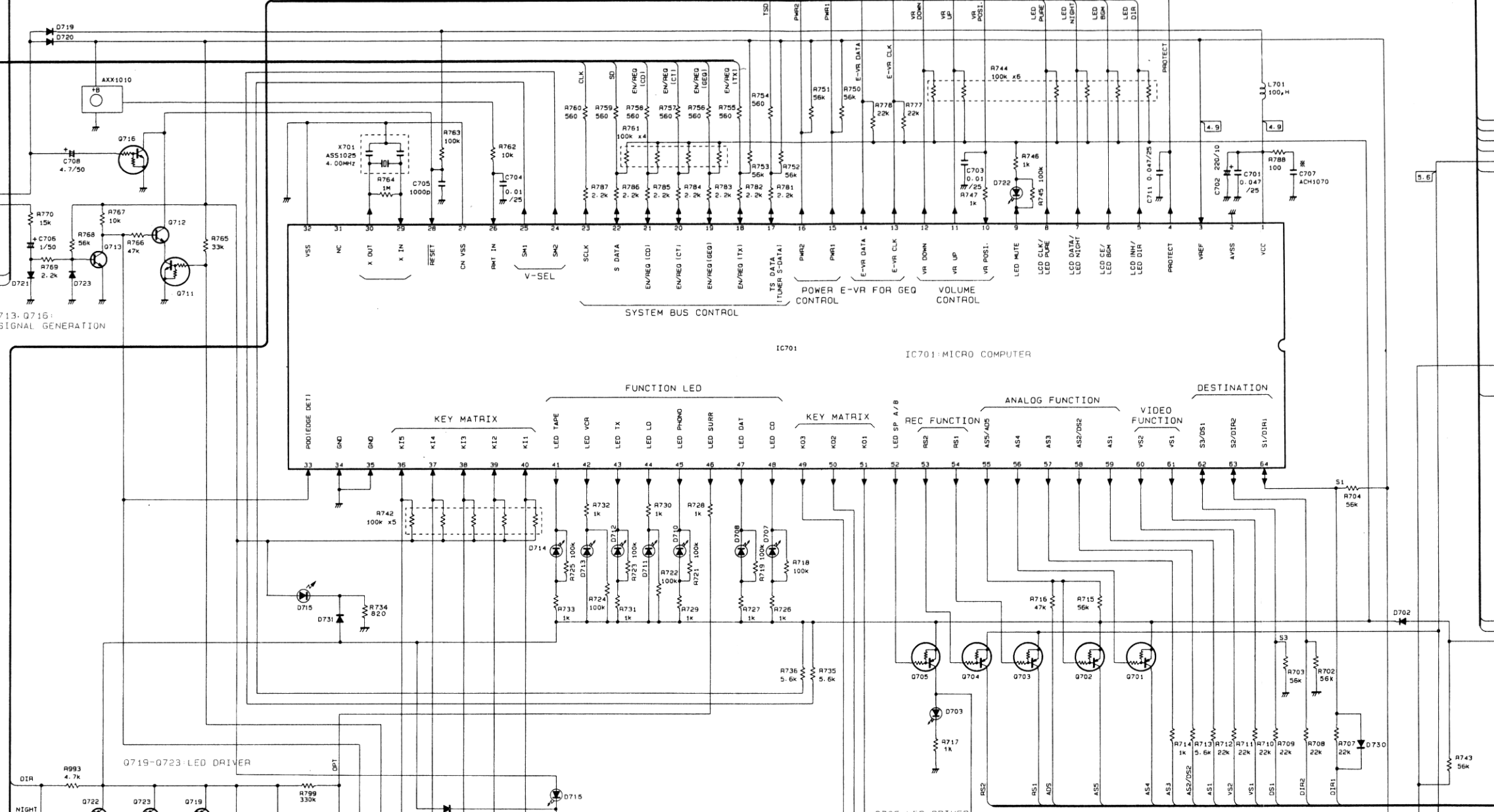
C

D



Q711-Q713, Q715: RESET SIGNAL GENERATION

To AF assembly CN101 (To page 18)

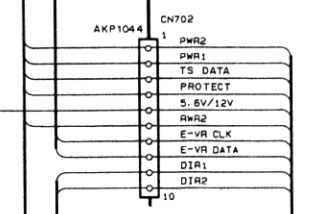


Q719-Q723: LED DRIVER

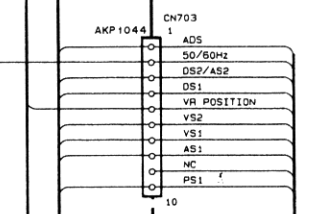
Q705: LED DRIVER Q701-Q704: INVERTER

Q717, Q718: SWITCH

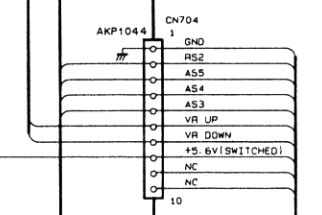
IC701	PD5160A
Q701-704	DTA124ES
Q705	DTA143ES
Q711, 716	DTC124ES
Q712, 713, 717, 718, 720	2SC2458
Q719, 721-723	2SA1048
D707, 708, 710-715, 722, 723	AEL1099
D701, 702, 704-706, 719-721, 723	HSS104-02
D725, 726, 729	AEL1091
D727	AEL1038
D727	AEL1074
D730, 731	HSS104-02



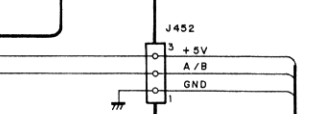
To AF assembly CN102 (To page 18)



To AF assembly CN103 (To page 18)



To AF assembly CN104 (To page 18)



To RELAY assembly J452 (To page 20)

1 2 3 4 5 6

4.4 DAC(AWK1385) assembly

DAC assembly (AWK1385)

A

B

C

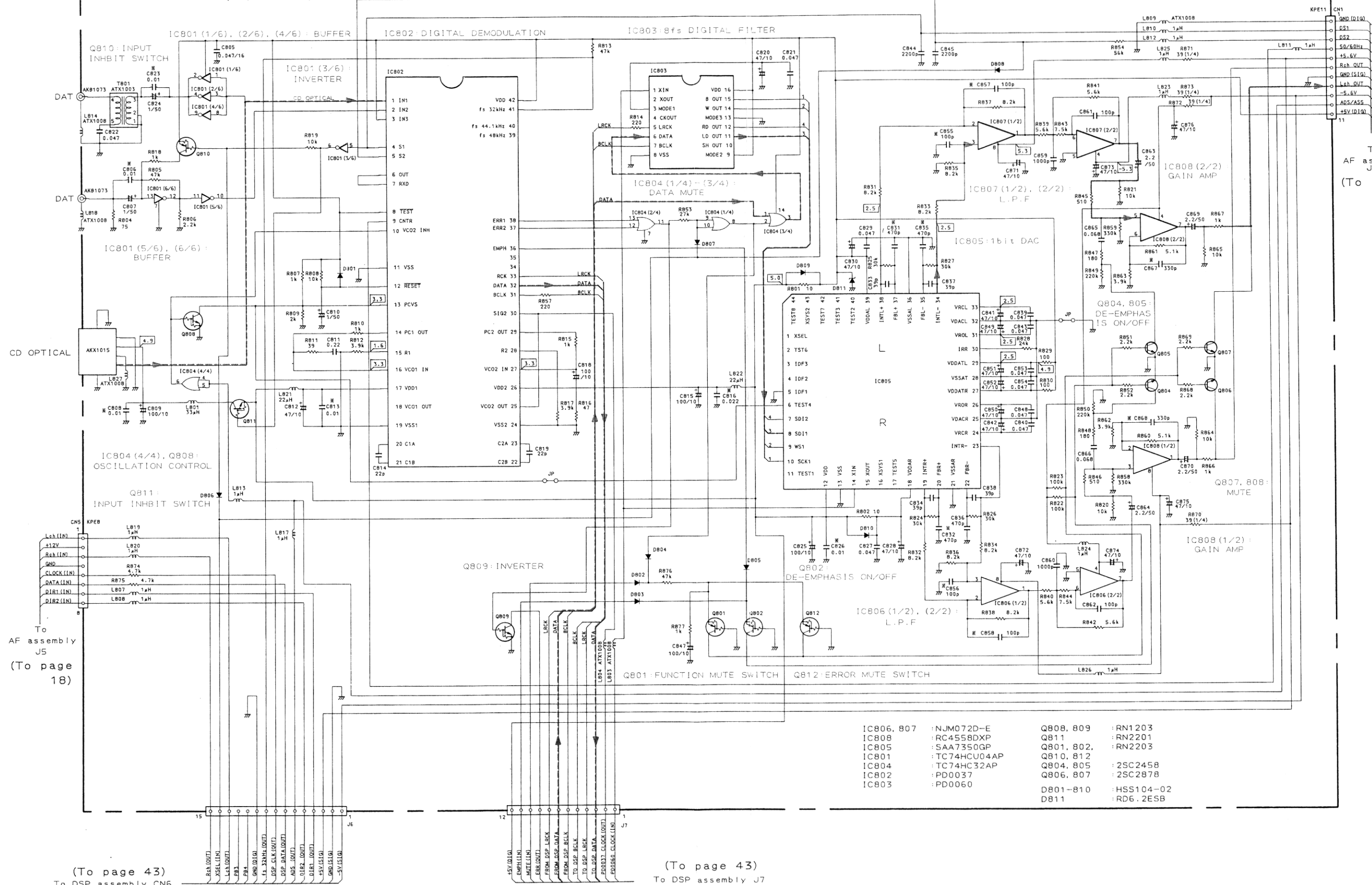
D

A

B

C

D



To AF assembly J1 (To page 18)

To AF assembly J5 (To page 18)

(To page 43) To DSP assembly J7

(To page 43) To DSP assembly CN6

IC806, 807	: NJM072D-E	Q808, 809	: RN1203
IC808	: RC4558DXP	Q811	: RN2201
IC805	: SAA7350GP	Q801, 802,	: RN2203
IC801	: TC74HC04AP	Q810, 812	
IC804	: TC74HC32AP	Q804, 805	: 2SC2458
IC802	: PD0037	Q806, 807	: 2SC2878
IC803	: PD0060	D801-810	: HSS104-02
		D811	: RD6.2ESB

1 2 3 4 5 6

A

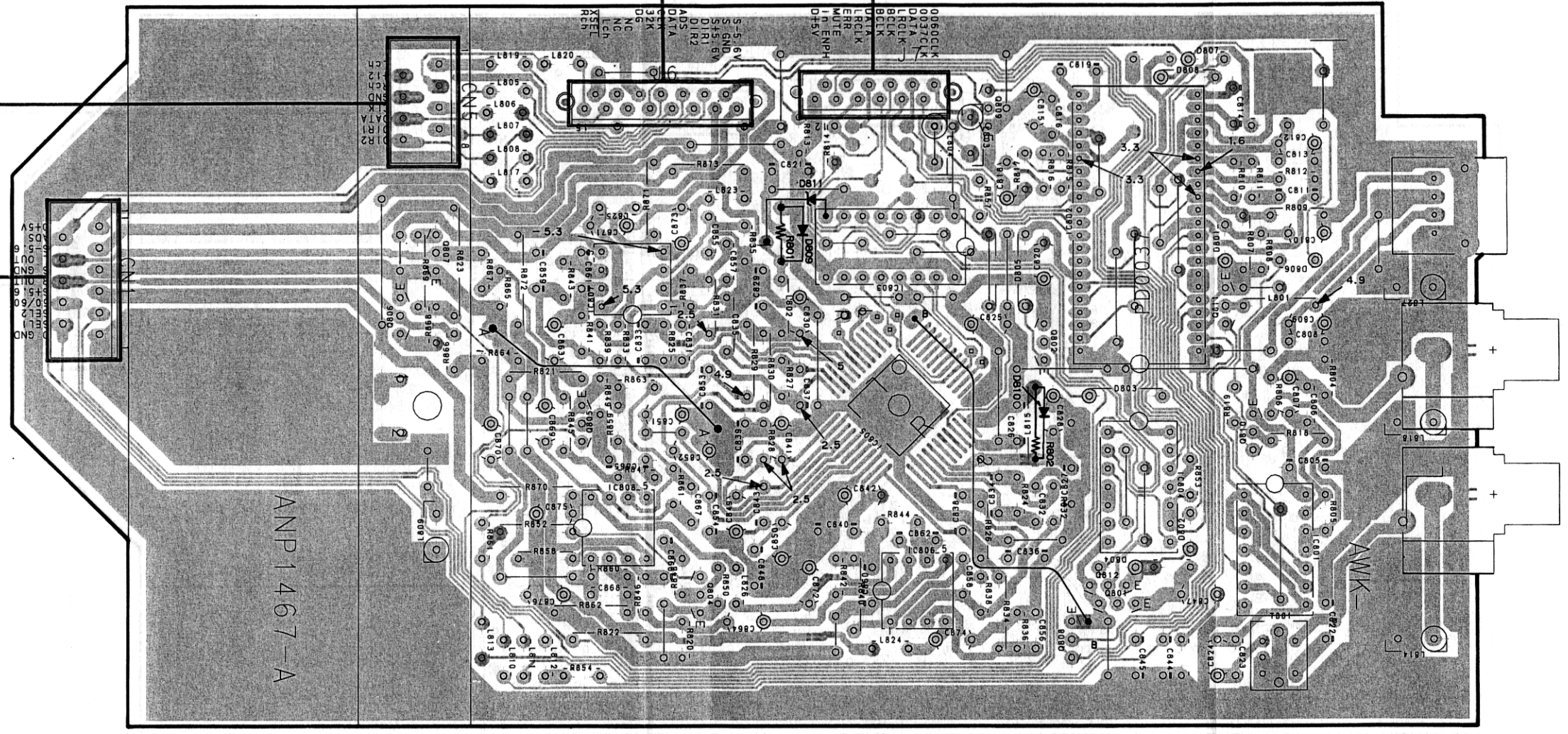
DAC assembly (AWK1385)

To AF assembly J5  
(To page 22)

To AF assembly J1  
(To page 22)

To DSP assembly CN6  
(To page 42)

To DSP assembly CN7  
(To page 41)



DIGITAL IN  
CD OPTICAL DAT  
DIGITAL OUT  
DAT

B

C

- Q806 Q807
- Q805 IC807
- IC803 Q809 Q802 IC802 Q811 Q810
- IC805 IC806 Q808 IC804
- Q812
- Q801

- NOTE
- This P.C.B. connection diagram is viewed from the parts mounted side.
  - 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)

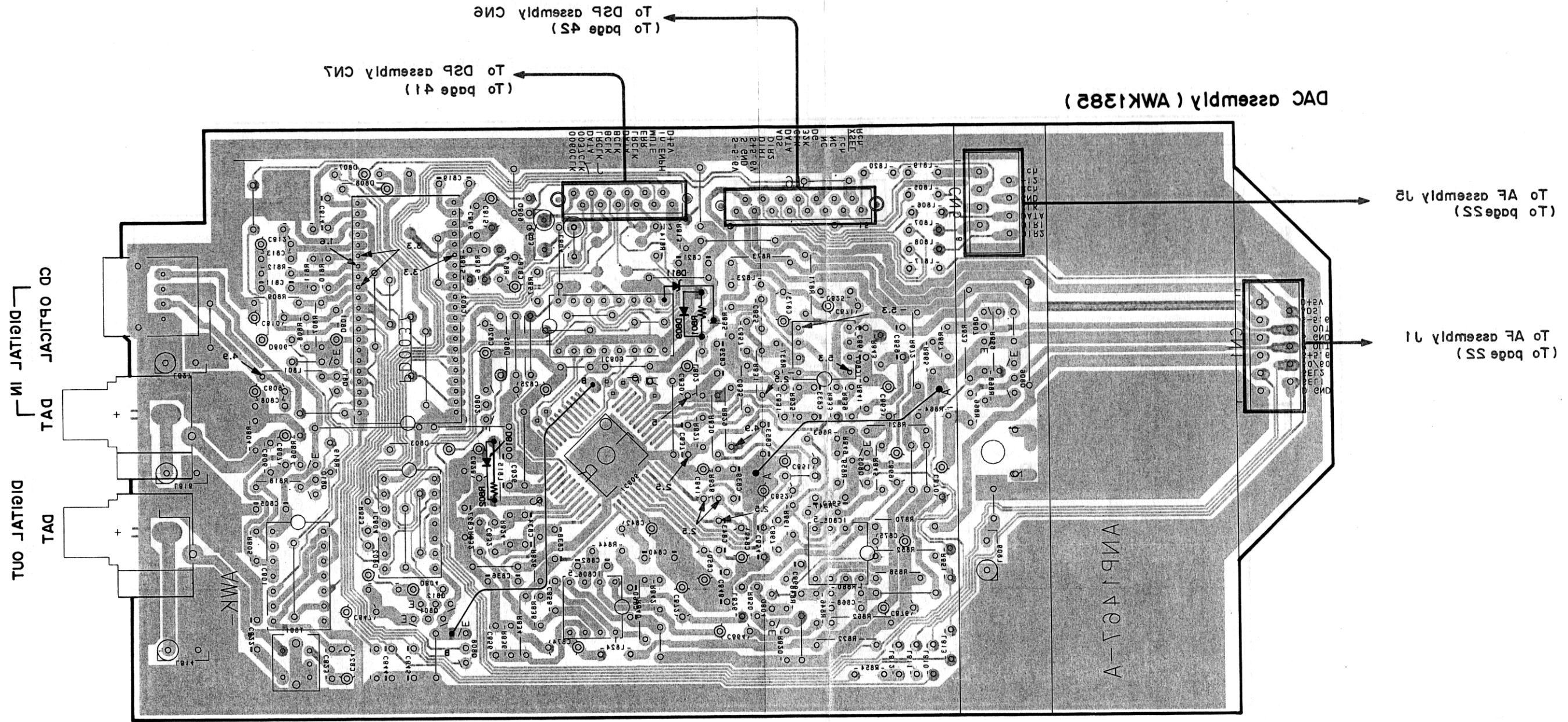
Others

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

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

D

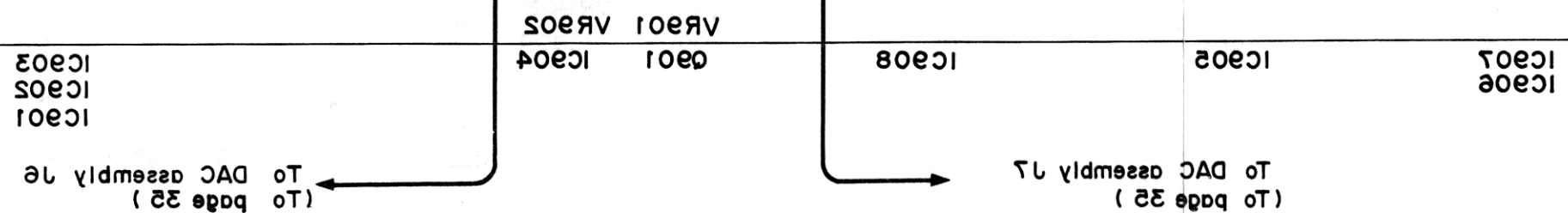
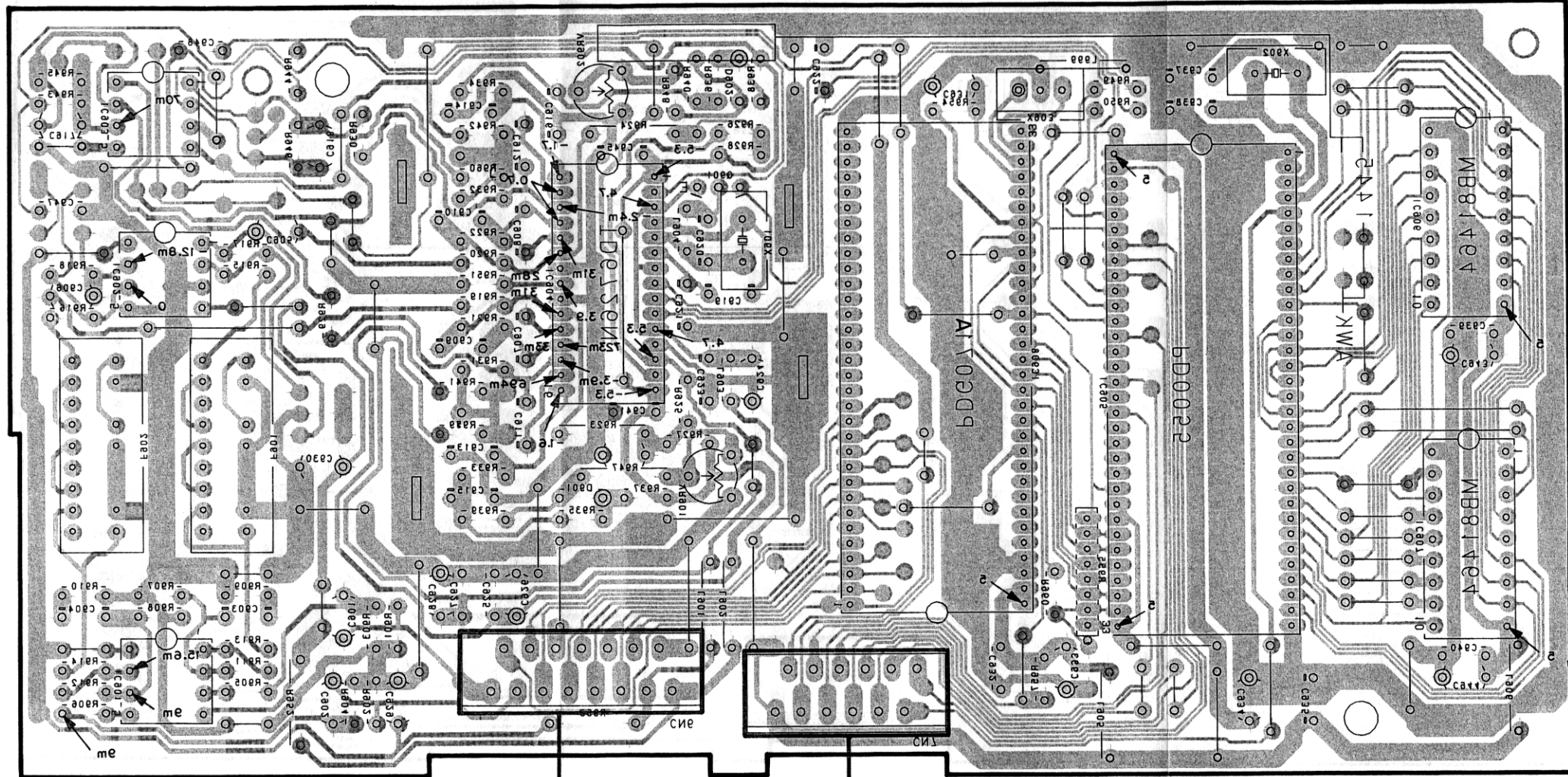
1 2 3 4 5 6



This P.C.B. connection diagram is viewed from the foil side.



DSP assembly (WK142)



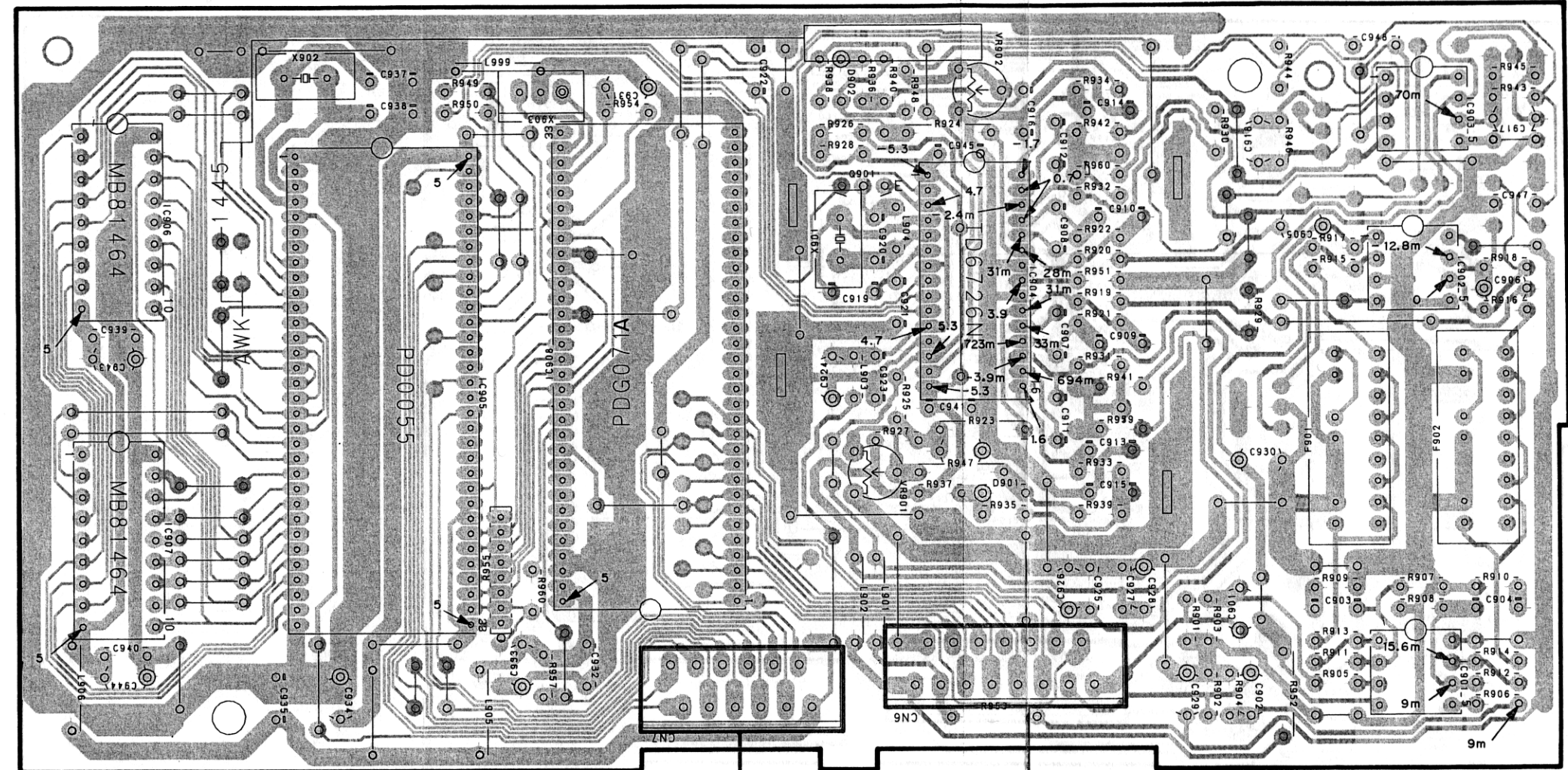
This P.C.B. connection diagram is viewed from the foil side.

A  
B  
C  
D

A  
B  
C  
D

4.5 DSP(AWK1445) assembly

DSP assembly (AWK1445)



IC907  
IC906

IC905

IC908

VR901 VR902  
Q901 IC904

IC903  
IC902  
IC901

To DAC assembly J7  
(To page 35)

To DAC assembly J6  
(To page 35)

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.



## 5. ADJUSTMENTS

1. If the SP-Z570(sound field processor) is connected to the A-Z470, disconnect them. (This makes DSP processing in the A-Z470 flat.)
2. Input 1kHz/600mV to LD INPUT AUDIO Lch and Rch, then turn function to LD, followed by turning the main VR into the center position.
3. Adjust the VR901(Rch) and VR902(Lch) until the distortion of the Lch and Rch is minimized(0.15% or less) at the speaker output.

## 5. RÉGLAGE

1. Si le SP-Z570(processeur de champ d'ambiance) est connecté au A-Z470, les déconnecter. (Ceci neutralise le traitement DSP dans le A-Z470.)
2. Enter 1kHz/600mV aux bornes gauche et droite d'entrée audio LD(LD INPUT AUDIO), mettre le sélecteur de fonction sur "LD", suivi du réglage de la résistance variable(VR) principale à la position centrale.
3. Régler VR901 (D) et VR902 (G) jusqu'à ce que la distorsion des canaux gauche et droit soit réduite (0,15% ou moins) à la sortie des haut-parleurs.

## 5. AJUSTE

1. Si el SP-Z570(procesador de campo sonoro) está conectado al A-Z470, desconéctelos. (De este modo el procedo DSP en el A-Z470 será plano.)
2. Introduzca 1kHz/600mV en los canales izquierdo y derecho de INPUT AUDIO del LD, cambie entonces la función a LD, y gire luego la VR principal a la posición central.
3. Ajuste la VR901 (canal derecho) y VR902 (canal izquierdo) hasta que la distorsión de los canales izquierdo y derecho se minimice(0.15% o menos) en la salida del altavoz.

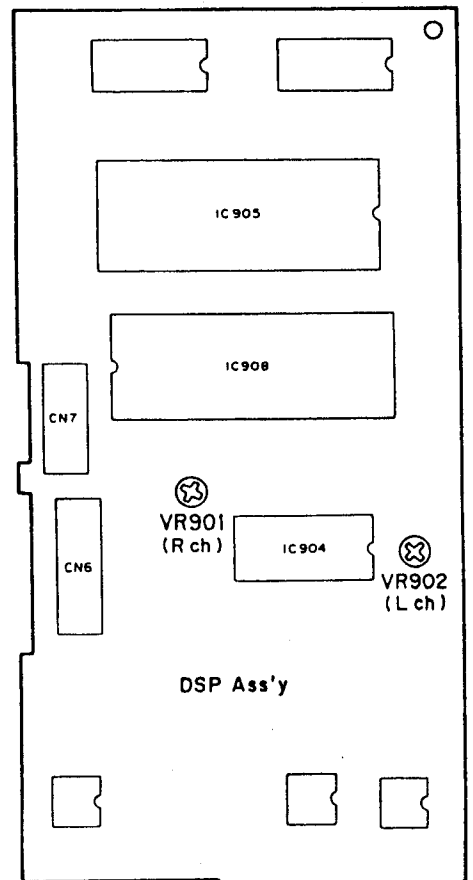


Fig. 5-1. Adjustment location

Fig. 5-1. Emplacements de réglage

Fig. 5-1. Puntos de ajustes

## 6. FOR HB AND HEWZIW TYPES

### 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.

### CONTRAST OF MISCELLANEOUS PARTS

The A-Z470/HB and HEWZIW types are the same as the A-Z470/HE type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		HE type	HB type	HEWZIW type	
●	AF assembly	AWZ3403	AWZ3403	AWZ3406	
●	POWER assembly	AWZ2747	AWZ2747	AWZ2744	
	SP TERMINAL assembly	Non supply	Non supply	Non supply	
	POWER VR assembly	Non supply	Non supply	Non supply	
	HEAD PHONE assembly	Non supply	Non supply	Non supply	
	SUB TRANS assembly	Non supply	Non supply	Non supply	
	MIC assembly	Non supply	Non supply	Non supply	
⚠	AC power cord	ADG1019	ADG1087	ADG1012	
⚠	FU1 Fuse	AEK-403	AEK-512	AEK-403	
⚠	FU2 Fuse	AEK-017	AEK-511	AEK-017	
⚠	FU3,4 Fuse	AEK-405	AEK-510	AEK-405	
⚠	FU5 Fuse	AEK-403	AEK-511	AEK-403	
	PWB Screw	ABA-283	ABA-283	.....	
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARC1249	.....	.....	
	Operating instructions (English, German, French, Italian)	ARE1181	.....	.....	
	Operating instructions (English)	.....	ARB1291	.....	
	Operating instructions (German)	.....	.....	ARC1247	

**AF assembly (AWZ3406)**

The AF assembly(AWZ3406) is the same as the AF assembly(AWZ3403) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3403	AWZ3406	
	C102, C103	CKDYF103Z50	CKDYF473Z50	
	C341-344, 347-349, 383, 386, 387	.....	CKDYF473Z50	
	C345, 346	.....	QMA104K50	
	C351, 352	.....	ACG1020	
	C353, 354, 357, 358, 361, 362	.....	CKDYB331K50	
	C355, 356, 359, 360, 363, 364, 373-382	.....	ACG1018	
	C384, 385	.....	CKDYB391K50	
	R201, 202	RD1/8PM102J	RD1/8PM222J	

**POWER assembly (AWZ2744)**

The POWER assembly(AWZ2744) is the same as the POWER assembly(AWZ2747) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2747	AWZ2744	
	C405, 406	CCDSL470J50	CCDSL221J50	
	C431, 432	.....	CCDSL101K500	
	C433, 434	.....	CCDSL101J50	
	C435, 436	.....	CKDYB331K50	
	R425	.....	RD1/8PM100J	

**SP TERMINAL assembly**

The SP TERMINAL assembly (HEWZIW type) is the same as the SP TERMINAL assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C365, 366	.....	CFTXA103J50	
	C471-482	.....	CQMXA103J100	
	L353, 354	.....	ATH1002	

**POWER VR assembly**

The POWER VR assembly (HEWZIW type) is the same as the POWER VR assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C663-665 C666, 667	..... .....	CKDYB103K50 CCDSL470J50	
	R700	.....	RD1/8PM100J	

**HEAD PHONE assembly**

The HEAD PHONE assembly (HEWZIW type) is the same as the HEAD PHONE assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C369, 370	.....	CKDYX473M25	

**SUB TRANS assembly**

The SUB TRANS assembly (HB type) is the same as the SUB TRANS assembly (HE and HEWZIW types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HEWZIW types	HB type	
	AC socket (OUTLET 1P)	AKP1034	AKP1035	

**MIC assembly**

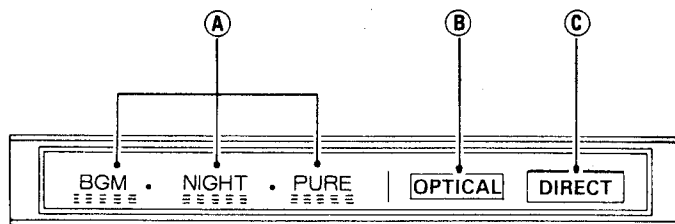
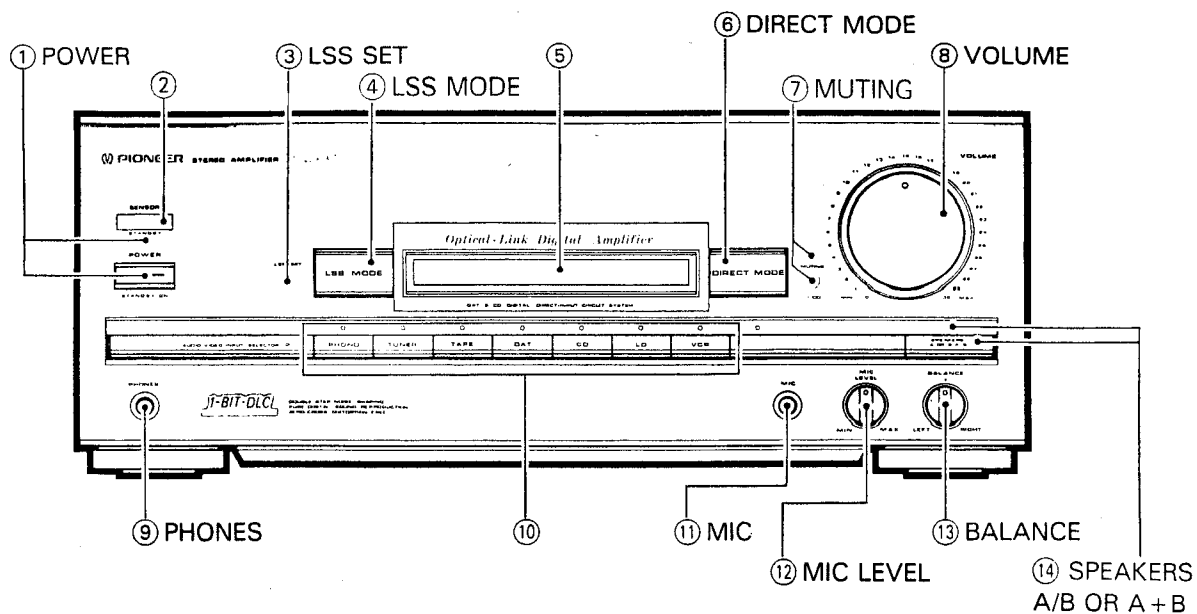
The MIC assembly (HEWZIW type) is the same as the MIC assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C371	.....	ACG1020	
	C372	.....	ACG1017	
	C604	ACG1017	ACG1020	
	L601	.....	LAUR56M	
	R351	.....	RD1/8PM222J	

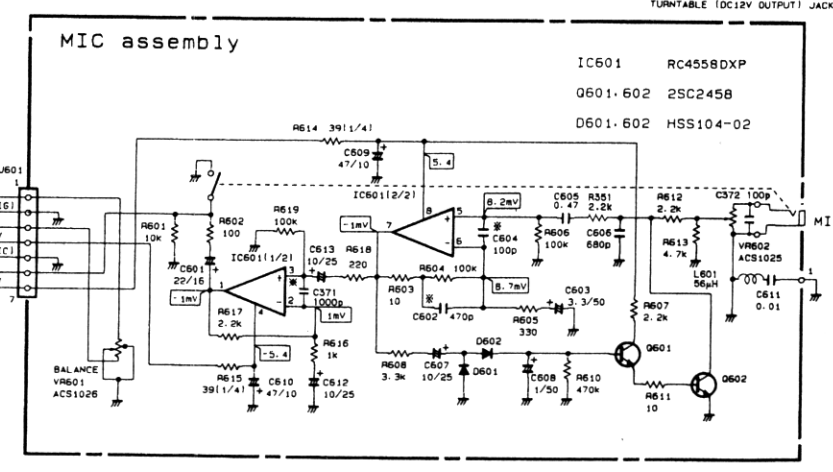
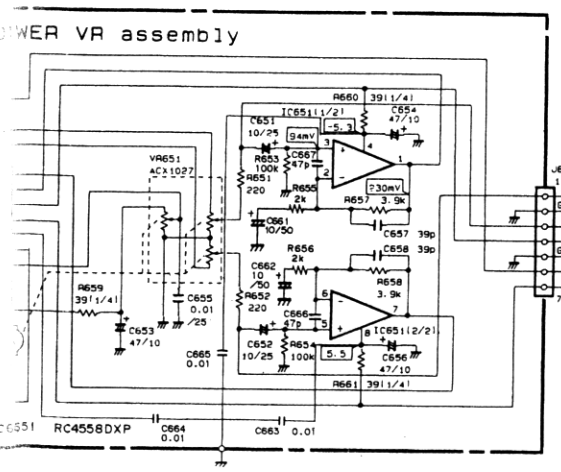
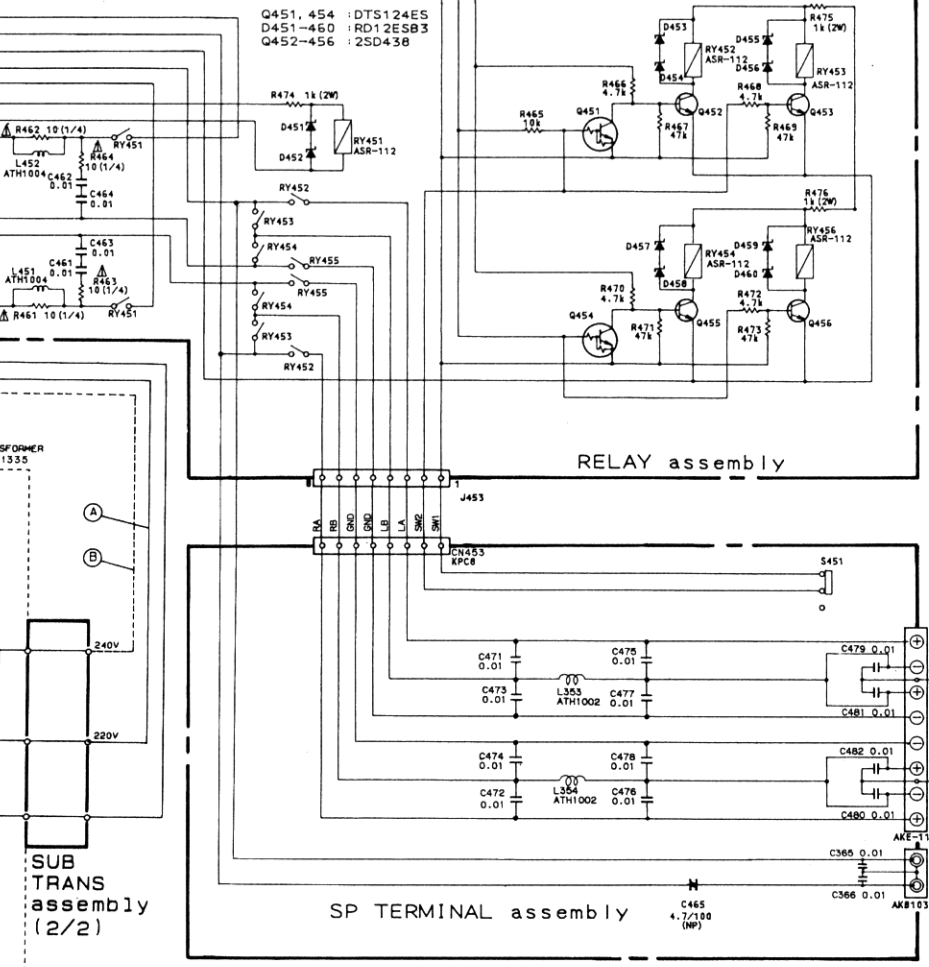
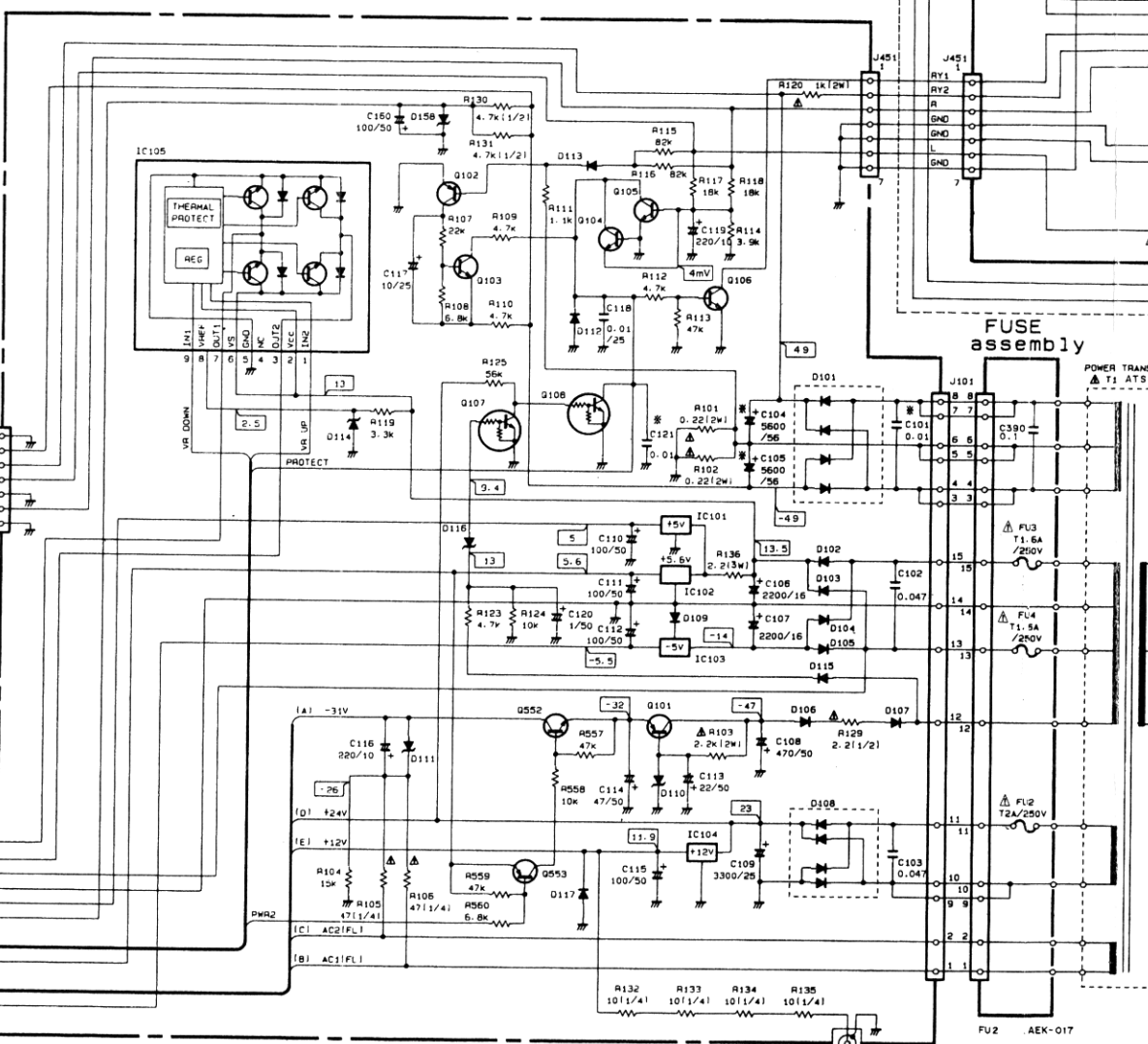
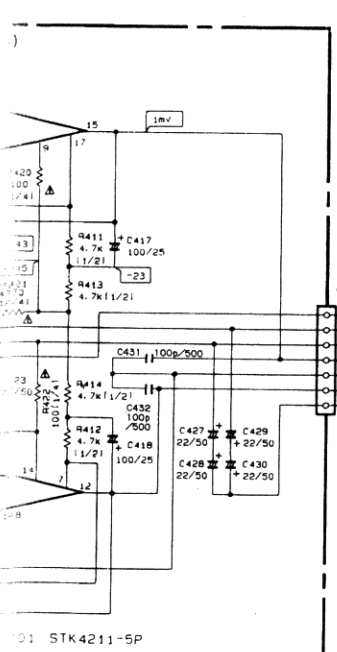
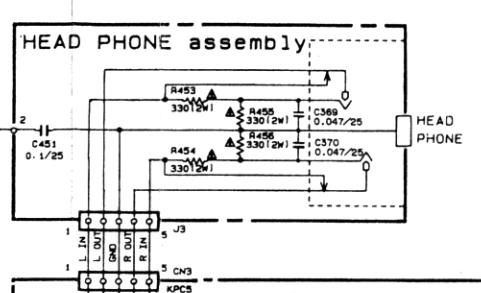
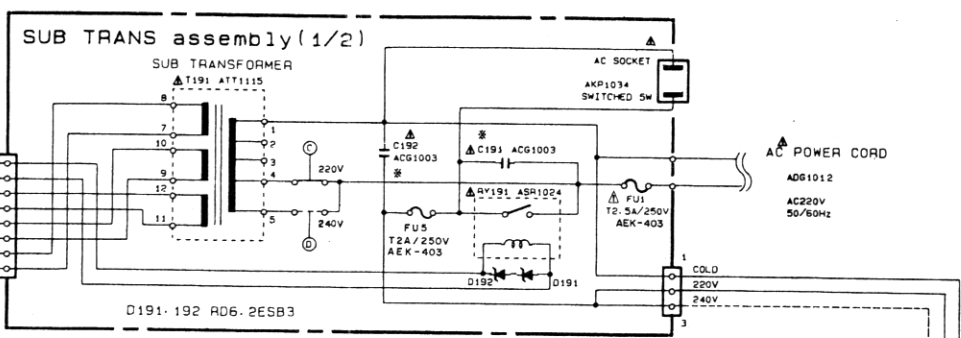
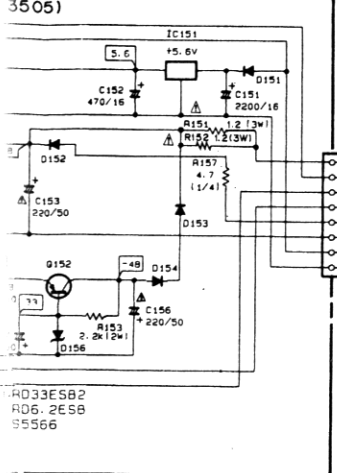


# 7. PANEL FACILITIES

## Front panel and display section







A  
B  
C  
D

4

5

6

7

8

9

4

5

6

7

8

9

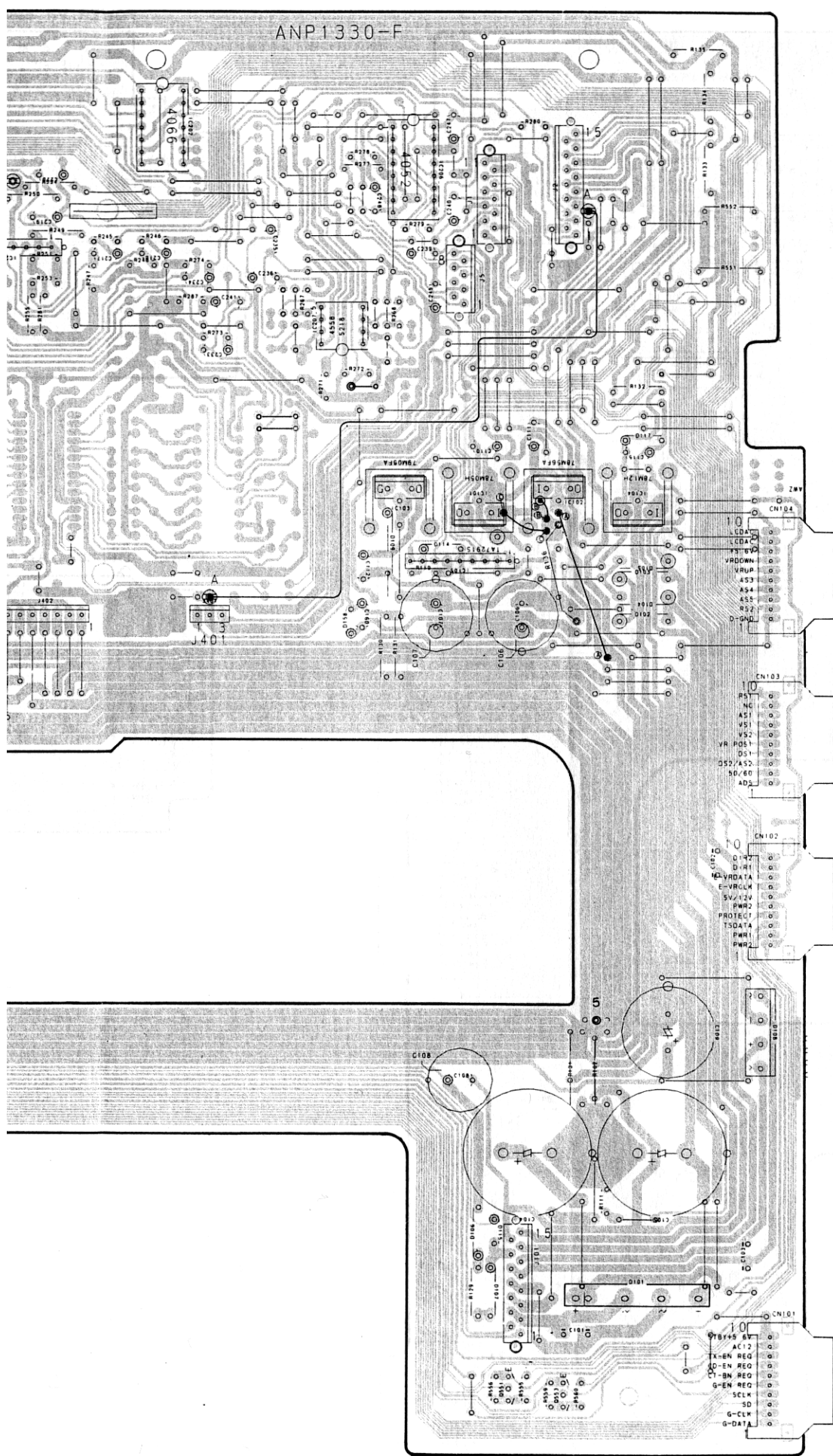
A

B

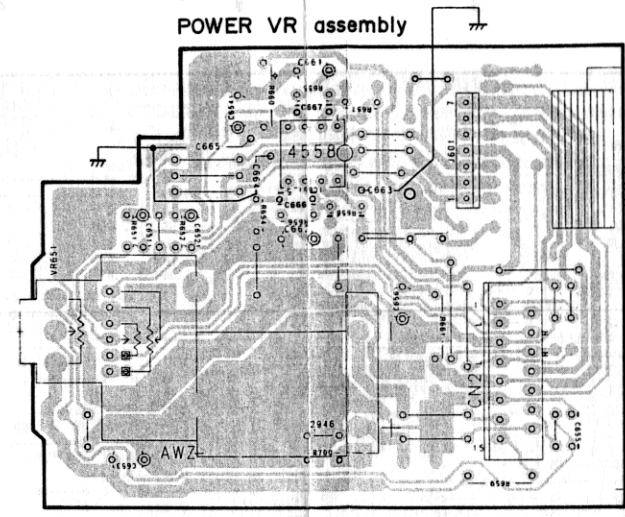
C

D

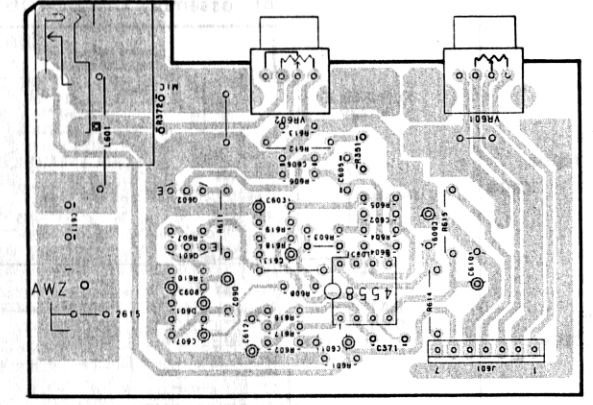
ANP1330-F



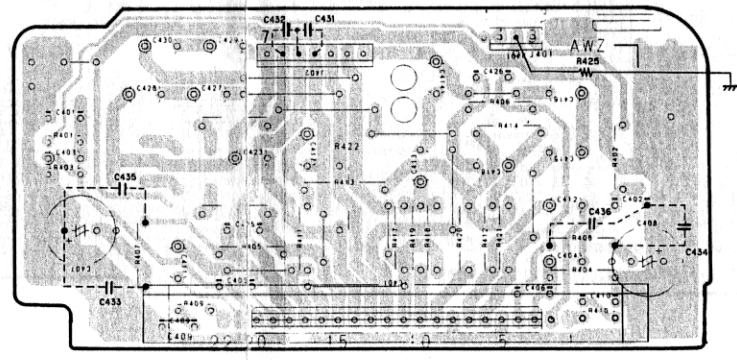
POWER VR assembly



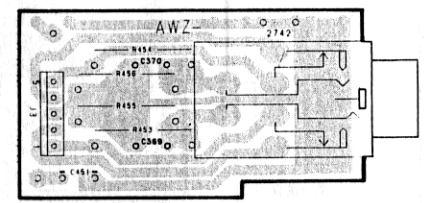
MIC assembly



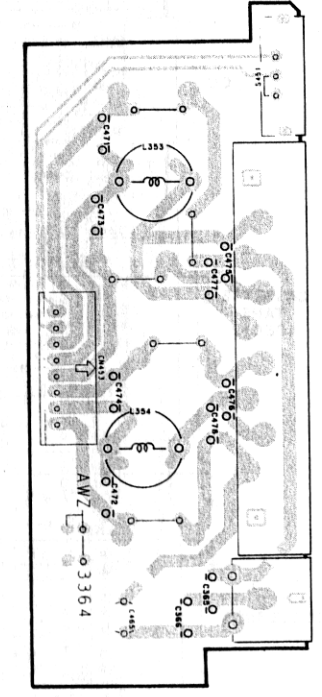
POWER assembly (AWZ2744)



HEADPHONE assembly



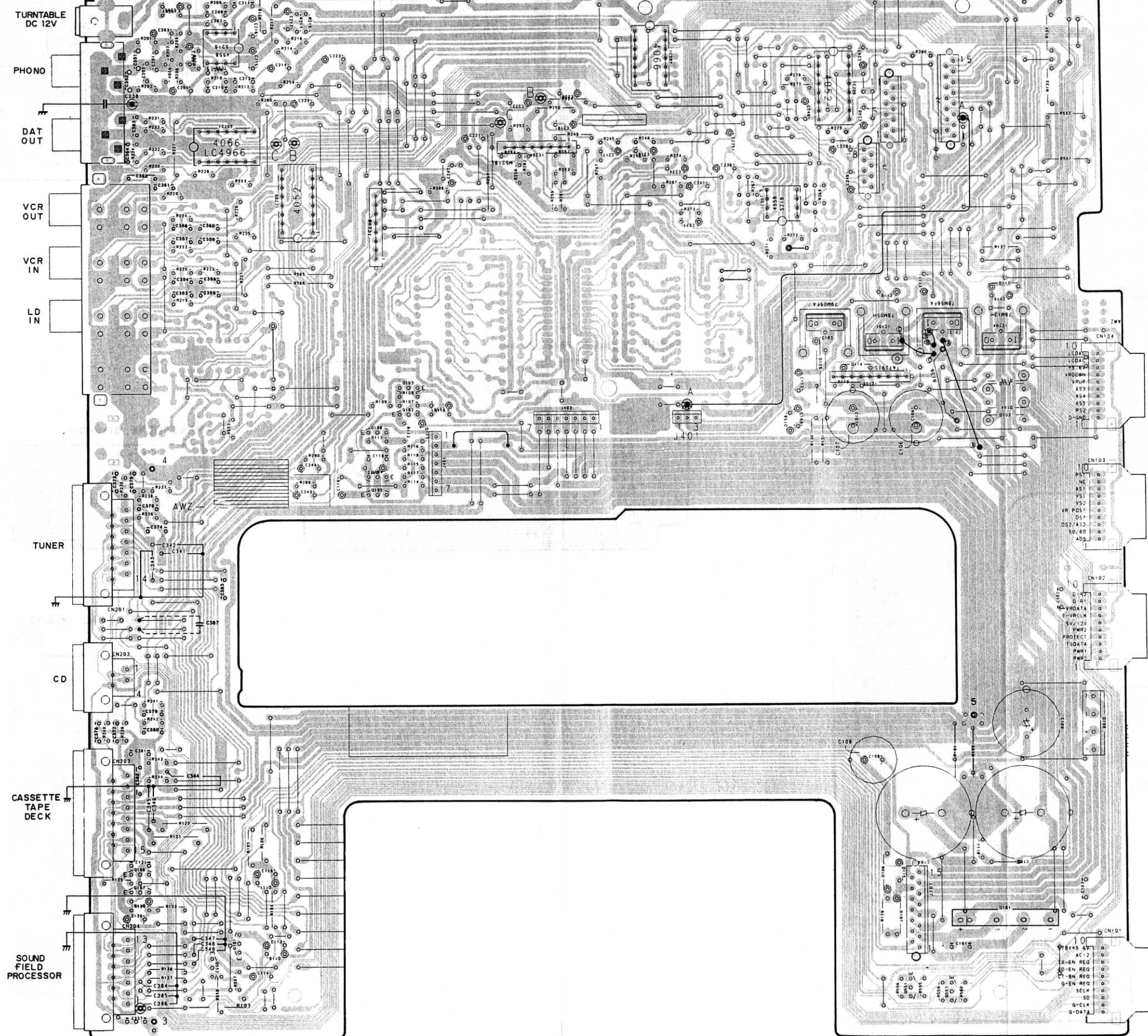
SP TERMINAL assembly



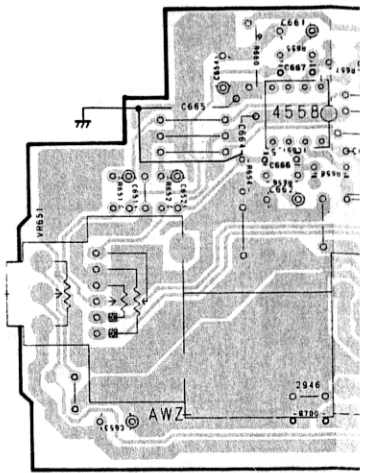
1 2 3 4 5 6

AF assembly (AWZ3406)

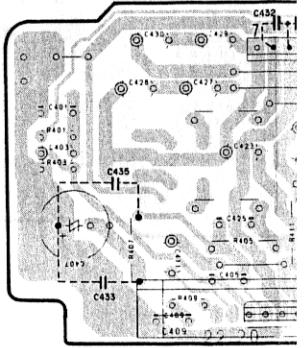
ANP1330-F



POWER VR assem



POWER assembly (AWZ2)



A

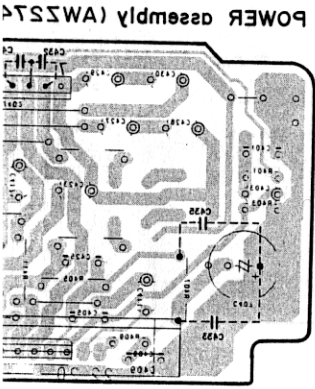
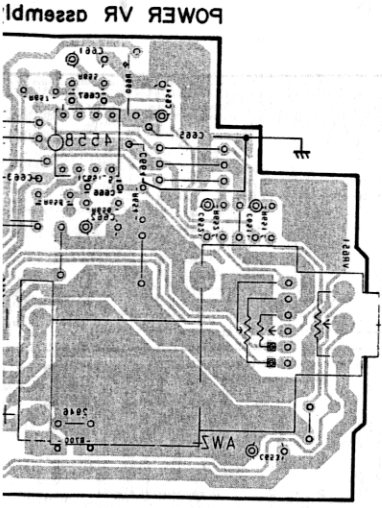
B

C

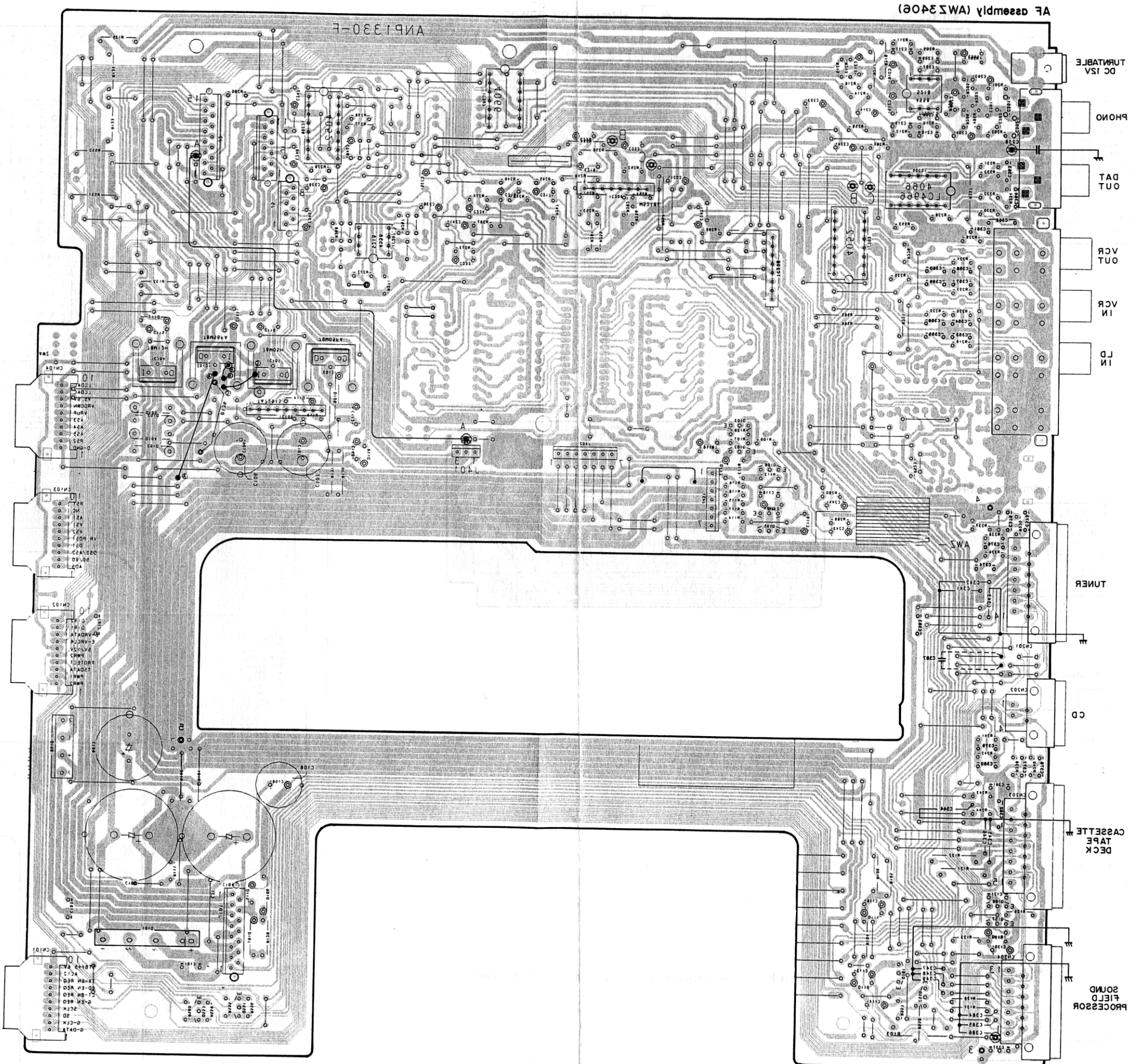
D

1 2 3 4 5 6





iewed from the foil side.



- IC501
- IC508
- IC504
- IC502
- IC508
- IC501
- IC502
- 0102
- 0105
- 0108
- 0104
- 0102
- 0108
- 0107
- 0101
- 0223
- 0221
- 0223

A  
B  
C  
D

9  
2  
4  
3  
5  
1

9  
2  
4  
3  
5  
1

**① POWER STANDBY/ON switch/indicator**

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.

The indicator above the switch lights when the power is STANDBY, and goes out during ON.

**② Remote sensor**

**③ LSS SET button**

Use to operate the Listening Style Selector memory.

**④ LSS MODE button**

Use to call the Listening Style Selector.

**⑤ Display section**

- Ⓐ This shows the position of the listening style selector.
- Ⓑ This lights when you play a CD.
- Ⓒ This lights when you can select CD and DAT direct mode.

**⑥ DIRECT MODE button**

Use this when you want by-pass sound quality adjustment circuitry and listen to a CD or DAT in the direct mode.

**⑦ MUTING button/indicator**

Use when you want to temporarily cut sound during playback. Press again to return to the previous volume level.

**⑧ VOLUME control**

**⑨ PHONES jack**

For stereo headphones.

**NOTE:**

*There is no output from the speakers when headphones are plugged into PHONES jack.*

**⑩ Input selector buttons/indicators**

**[PHONO]**

Press to play records on a turntable connected to the PHONO input jacks.

**[TUNER]**

Press to listen to radio broadcast.

**[TAPE]**

Press to listen to cassette tape.

**[DAT]**

Press to listen to a DAT playing on a digital audio tape deck connected to the DAT jacks.

**[CD]**

Press to listen to compact disc.

**[LD]**

Press to play an LD on a video disc player connected to the LD input jacks.

**[VCR]**

Press to play a tape on a video cassette recorder connected to the VCR jacks.

**⑪ MIC (microphone) jack**

This is a standard jack for connecting a microphone.

**NOTE:**

*Microphone mixing is not possible when CD DIRECT or DAT DIRECT are ON.*

**⑫ MIC LEVEL control**

Used for adjusting the volume of microphone.

**⑬ BALANCE control**

Used for changing the balance between left and right channels. Usually sets this control to the center position.

**⑭ SPEAKERS button (A/ B OR A + B)/indicator**

When the SPEAKER MODE selector switch on the rear panel is set to the A/B (left), use this button to switch between sound from speakers A only, and sound from speakers B only.

When the SPEAKER MODE selector switch is set to the A/A + B (right), use this button to switch between sound from speakers A only, and sound from both speakers A and B.

Refer to page 20 No.⑤ concerning SPEAKER MODE selector switch.

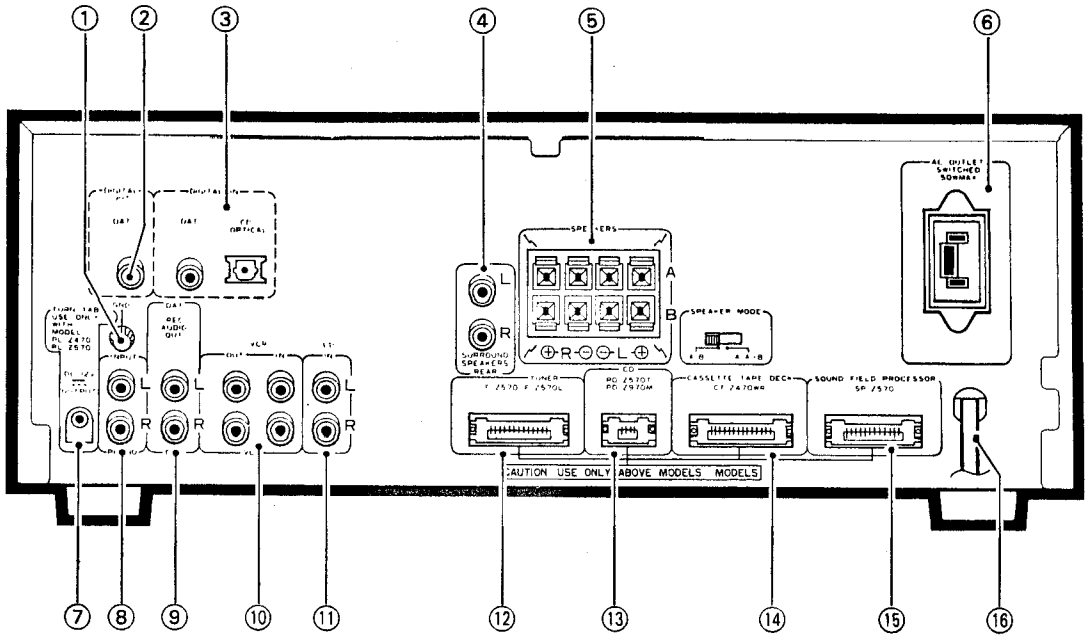
Rear panel SPEAKER MODE switch	SPEAKERS	
	Indicator off	Indicator lit
A/B	A	B
A/A + B	A	A + B

**NOTE:**

*If speakers A and B are not both connected, there will be no sound when the button is set for A + B.*



**REAR PANEL FACILITIES**



① **Ground terminal (GND)**

Connect this to the ground terminal on the turntable (except for PL-Z570/PL-Z470).

② **DIGITAL OUT (DAT)**

Outputs digital signal taken from CD player optical input.

A digital audio tape deck's digital input jack (coaxial cable input) can be connected here. Consult with your dealer to see if it's possible to connect your digital audio tape deck.

③ **DIGITAL IN jacks**

**[DAT]**

A digital audio tape deck's digital output jack (coaxial cable output) can be connected here.

Consult with your dealer to see if it's possible to connect your digital audio tape deck.

**[CD]**

Connect a CD player's OPTICAL OUT jack.

④ **SURROUND SPEAKERS jacks**

Connect the Surround speaker systems.

**NOTE:**

Connect a speaker system having a nominal impedance of 16  $\Omega$  or more.

⑤ **SPEAKERS terminals and SPEAKER MODE selector switch**

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

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

Set the selector switch to the A/B (left), and use the SPEAKERS button on the front panel to switch between sound from speakers A only, and sound from speakers B only.

If you set the selector switch to the A/A + B (right), use the SPEAKERS button on the front panel to switch between sound from speakers A only, and sound from both speakers A and B.

**NOTE:**

Connect a speaker system having a nominal impedance ranging from 8  $\Omega$  to 16  $\Omega$ .

⑥ **AC OUTLET (SWITCHED 50 W MAX)**

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

PD-Z570T or PD-Z970M CD player power cord can be connected.

**NOTE:**

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

This can cause the amplifier to malfunction.

⑦ **TURNTABLE (DC 12V OUTPUT) jack**

This jack supplies power to the turntable PL-Z470/PL-Z570.

⑧ **PHONO input jacks**

Connect the output cord of the turntable to these jacks.

⑨ **DAT REC OUT jacks**

Connect to audio input jacks of the digital audio tape deck.

⑩ **VCR jacks**

**IN:** Connect to the audio output jacks of VCR.

**OUT:** Connect to audio input jacks of VCR.

⑪ **LD input jacks**

Connect to the audio output jacks of the LD player.

⑫ **TUNER jack**

Connect the tuner cord here.

⑬ **CD jack**

Connect the compact disc player (PD-Z570T/ PD-Z970M) cord here.

⑭ **CASSETTE TAPE DECK jack**

Connect the cassette deck cord here.

⑮ **SOUND FIELD PROCESSOR jack**

Connect the sound field processor cord here.

⑯ **Power cord**

Connect this to the AC wall socket.