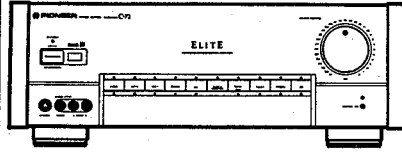


Service Manual

PIONEER
The future of sound and vision.



ORDER NO.
ARP2106

STEREO CONTROL AMPLIFIER

C-72

C-73

MODELS C-72 AND C-73 HAVE FOLLOWING VERSIONS:

Type	Applicable model		Power requirement	Destination
	C-72	C-73		
KU/CA	○	—	AC120V only	U.S.A. and Canada
SD	○	—	AC110V, 120V – 127V, 220V, 240V (Switchable)	Kingdom of Saudi Arabia and General market
HEZ	—	○	AC220V, 240V (Switchable) *	West Germany
HB	—	○	AC220V, 240V (Switchable) *	United Kingdom

* Change the connection of the power transformer lead wire.

- This manual is applicable to the C-72/KU/CA, SD, C-73/HEZ and HB types.
- As to the C-72/SD type, refer to page 44.
- As to the C-73/HB type, refer to page 72.

CONTENTS

1. SAFETY INFORMATION	2	4. FOR C-72/SD TYPE	44
2. EXPLODED VIEWS, PACKING AND PARTS LIST (FOR C-72/KU/CA AND C-73/HEZ TYPES)	4	5. FOR C-73/HEZ TYPE	45
3. FOR C-72/KU/CA TYPE	11	6. FOR C-73/HB TYPE	72
		7. IC INFORMATION	73

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SEV AUG. 1990 Printed in Japan

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

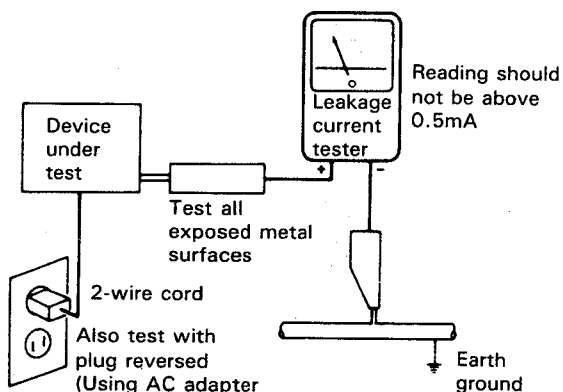
(FOR USA MODEL ONLY)

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.

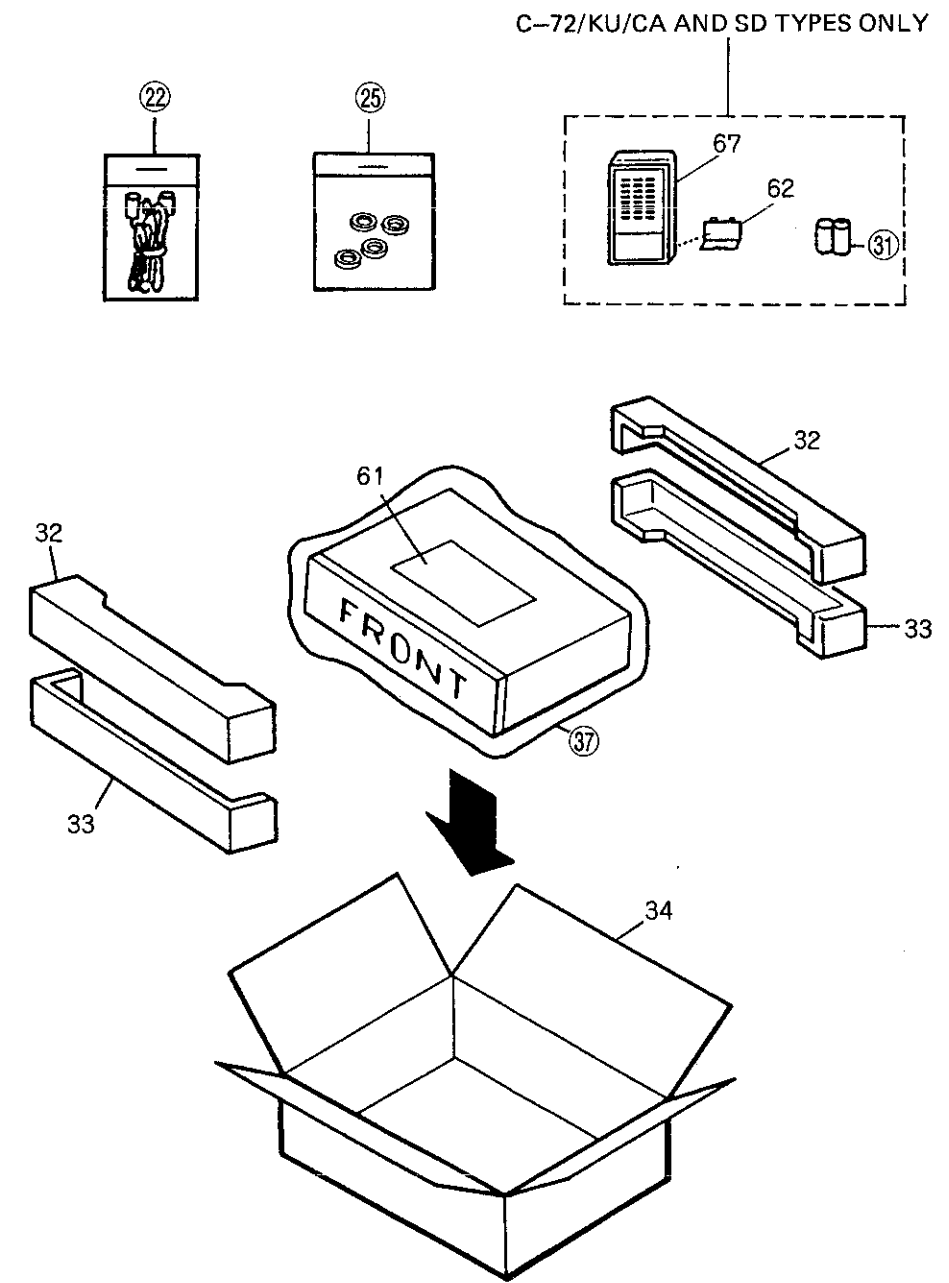
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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.

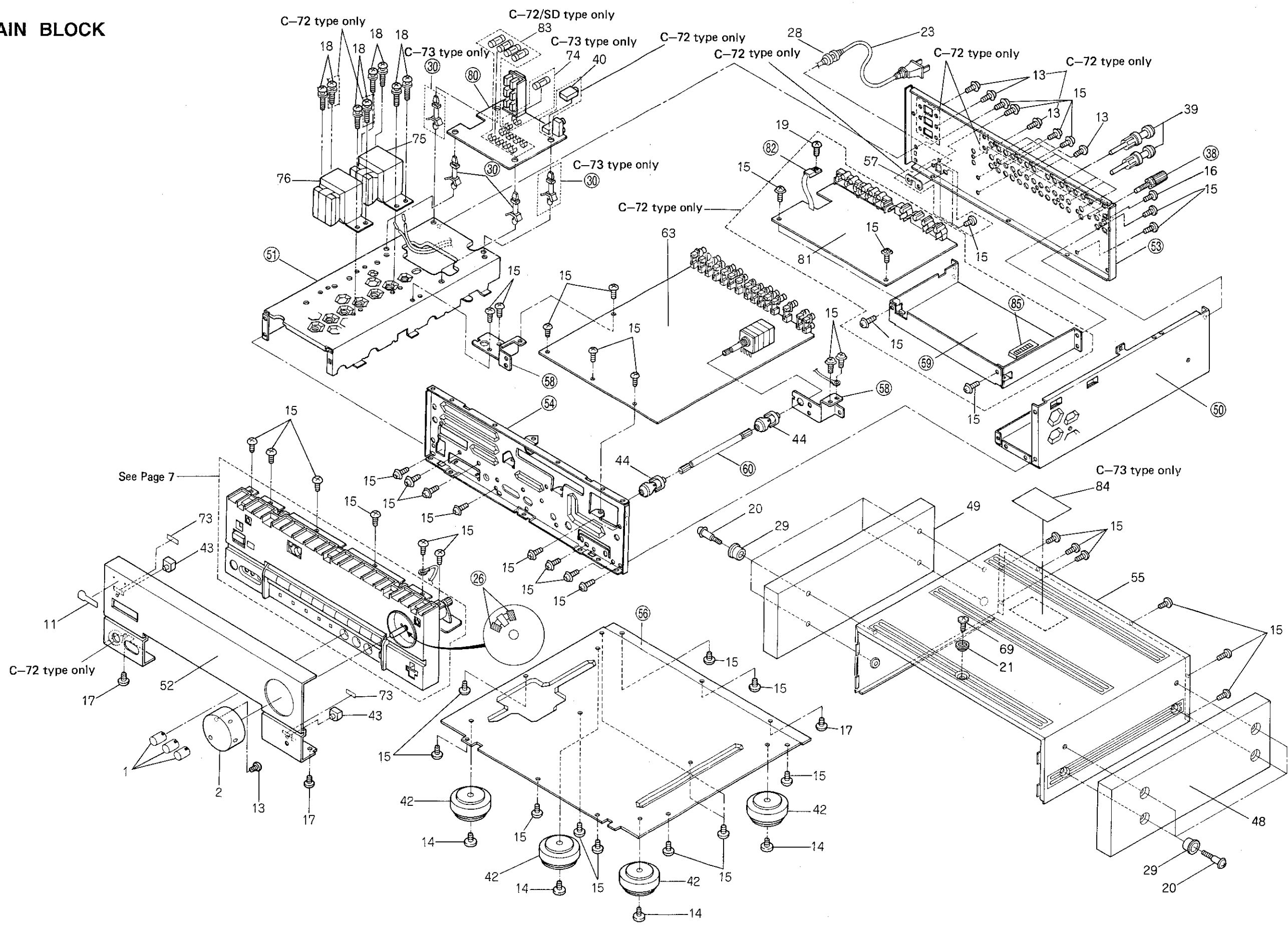
2. EXPLODED VIEWS, PACKING AND PARTS LIST (FOR C-72/KU/CA AND C-73/HEZ TYPES)

2.1 PACKING

MEMO



2.2 MAIN BLOCK



A

B

C

D

2.3 FRONT BLOCK

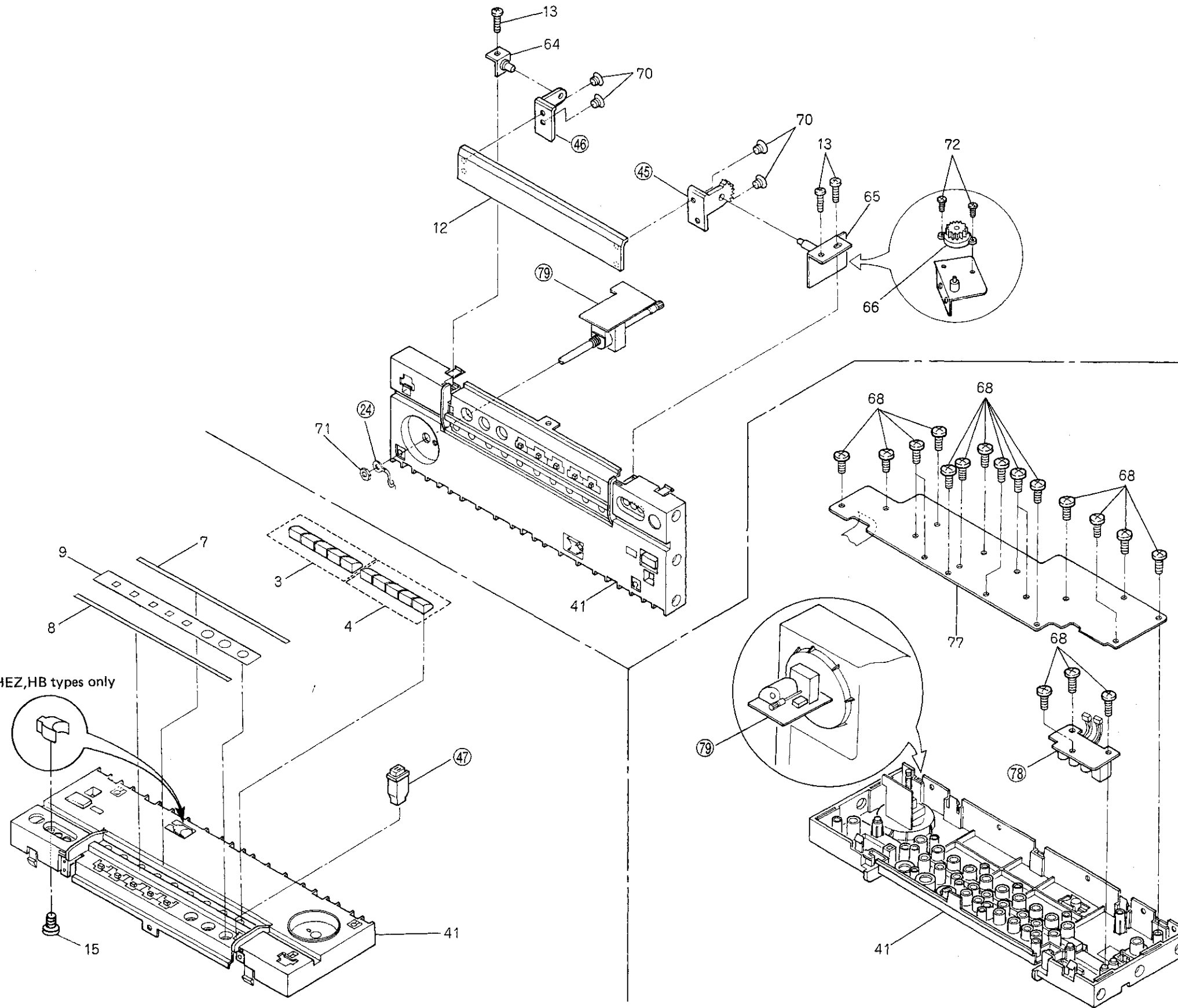
A

B

C

D

C-73HEZ, HB types only



NOTES:
 • Parts
 • The
 factor
 tion.
 • Parts
 than

A

B

C

D

△

2.4
 Mark

8

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.

A

2.4 PARTS LIST OF C-72/KU/CA

Mark.	No.	Description	Parts No.	Mark.	No.	Description	Parts No.
	1	ROTARY KNOB	AAB1052		46	HINGE R ASS'Y	
	2	ROTARY KNOB L	AAB1199		47	MAGNETIC LATCH	
	3	KNOB	AAD1824		48	SIDE BOARD R	AMS1049
	4	KNOB	AAD1825		49	SIDE BOARD L	AMS1050
	5	-----			50	RIGHT FRAME	
	6	-----			51	TRANS. FRAME	
	7	PVC SHEET A	AAK2086		52	FRONT PANEL	ANB1414
	8	PVC SHEET B	AAK2087		53	REAR PANEL	
	9	PVC SHEET C	AAK2089		54	PANEL STAY	
	10	-----			55	METAL BONNET	ANE1255
	11	NAME PLATE (METAL)	AAM1001		56	BOTTOM PLATE	
	12	DOOR PANEL	AAN1222		57	-----	
	13	SCREW	ABA-298		58	VOLUME HOLDER	
	14	SCREW (STEEL)	ABA1004		59	-----	
	15	SCREW (STEEL)	ABA1011		60	SHAFT	
	16	SCREW (STEEL)	ABA1047		61	OPERATING INSTRUCTIONS (ENGLISH)	ARB1268
	17	SCREW (STEEL)	ABA1048		62	BATTERY COVER	AZH1035
	18	SCREW	ABA1052		63	AF ASS'Y	AWK1301
	19	SCREW	ABA1054		64	SHAFT HOLDER ASS'Y R	AWL1053
	20	SCREW (STEEL)	ABA1086		65	SHAFT HOLDER ASS'Y L	AWL1054
	21	WASHER	ABE1009		66	DAMPER	AXA1010
	22	PLUG CORD			67	REMOTE CONTROL UNIT (CU-C001)	AXD1171
	23	AC POWER CORD	ADG1076		68	SCREW	BBZ26P080FMC
	24	GROUND LEAD			69	SCREW	BBZ40P080FZK
	25	SPACER SET			70	SCREW	CMZ30P040FZK
	26	CUSHION SPACER			71	NUT	NK90FCU
	27	-----			72	SCREW	PBZ20P040FZK
	28	-----			73	ADHESIVE TAPE	ZTABS-5
	29	WOOD COLOR	AEC1165		74	FU1 FUSE (T500mA)	AEK-401
	30	PCB SPACER			75	T1 POWER TRANSFORMER	ATT1124
	31	DRY CELL			76	T2 POWER TRANSFORMER	ATT1128
	32	STYROL PROTECTOR	AHA1003		77	CONTROL ASS'Y	AWZ2899
	33	STYROL PROTECTOR	AHA1004		78	FRONT INPUT ASS'Y	
	34	PACKING CASE	AHD1927		79	VOLUME DRIVE ASS'Y	
	35	-----			80	POWER ASS'Y	
	36	-----			81	-----	
	37	PACKING SHEET			82	-----	
	38	TERMINAL SCREW			83	-----	
	39	SHORT PIN PLUG	AKM-050		84	CAUTION SHEET	AAX1431
	40	JACK	AKN1020		85	-----	
	41	PANEL BASE ASS'Y	AMB1682				
	42	FOOT ASS'Y	AMR1159				
	43	INDICATING LENS	AMR1160				
	44	JOINT	AMR1178				
	45	HINGE L					

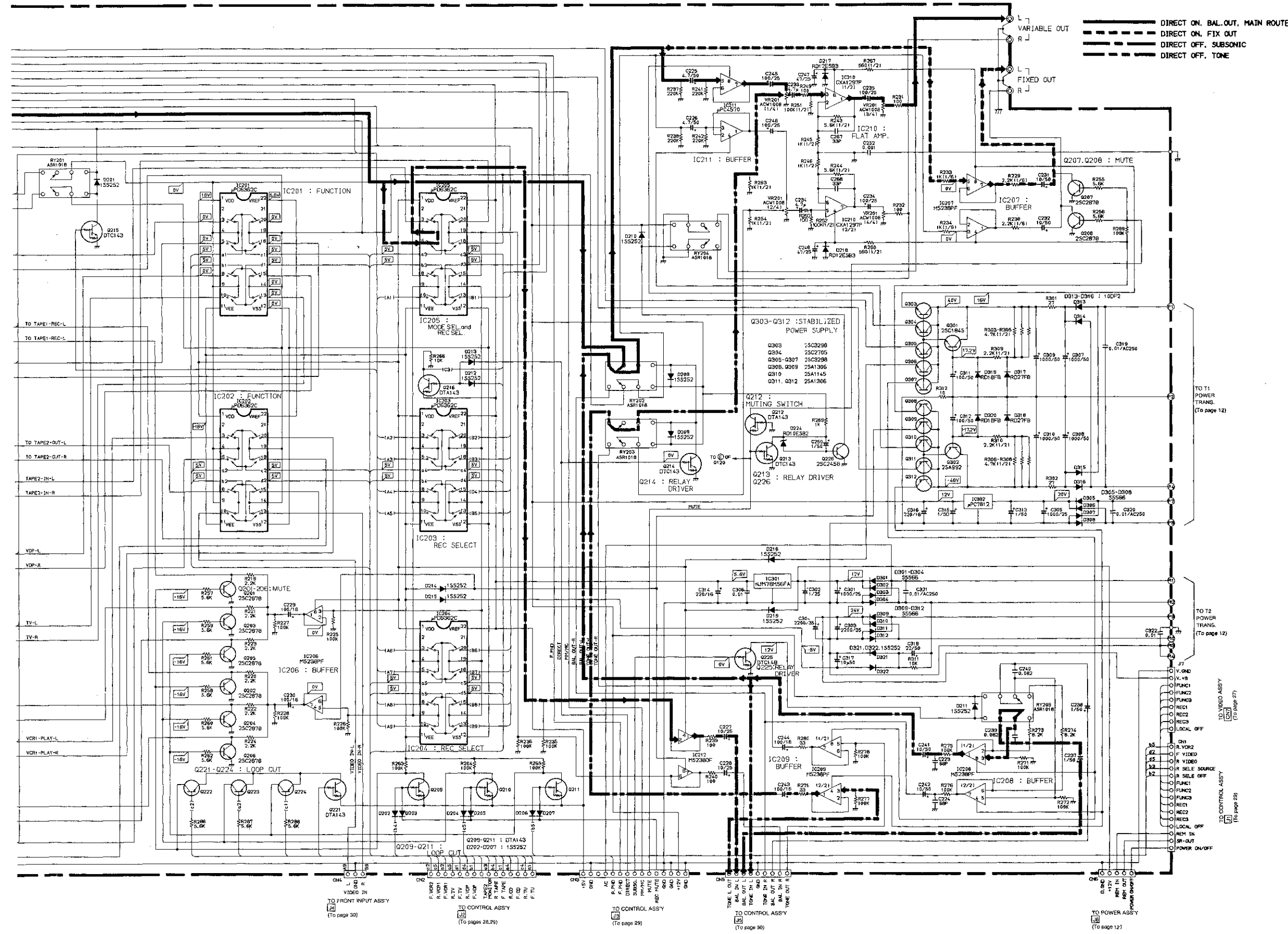
B

C

D

2.5 PARTS LIST OF C-73/HEZ

Mark.	No.	Description	Parts No.	Mark.	No.	Description	Parts No.
	1	ROTARY KNOB	AAB1052		46	HINGE R ASS'Y	
	2	ROTARY KNOB L	AAB1199		47	MAGNETIC LATCH	
	3	KNOB	AAD1828		48	SIDE BOARD R	AMS1049
	4	KNOB	AAD1825		49	SIDE BOARD L	AMS1050
	5	-----			50	RIGHT FRAME	
	6	-----			51	TRANS. FRAME	
	7	PVC SHEET A	AAK2086		52	FRONT PANEL	ANB1413
	8	PVC SHEET B	AAK2088		53	REAR PANEL	
	9	PVC SHEET C	AAK2090		54	PANEL STAY	
	10	-----			55	METAL BONNET	ANE1255
	11	NAME PLATE (METAL)	AAM1001		56	BOTTOM PLATE	
	12	DOOR PANEL	AAN1222		57	-----	
	13	SCREW	ABA-298		58	VOLUME HOLDER	
	14	SCREW (STEEL)	ABA1004		59	-----	
	15	SCREW (STEEL)	ABA1011		60	SHAFT	
	16	SCREW (STEEL)	ABA1047		61	OPERATING INSTRUCTIONS (ENGLISH/GERMAN/FRENCH/ITALIAN/SPANISH/DUTCH/PORTUGUESE/SWEDISH)	ARE1167
	17	SCREW (STEEL)	ABA1048		62	-----	
	18	SCREW	ABA1052		63	AF ASS'Y	AWK1302
	19	-----			64	SHAFT HOLDER ASS'Y R	AWL1053
	20	SCREW (STEEL)	ABA1086		65	SHAFT HOLDER ASS'Y L	AWL1054
	21	WASHER	ABE1009		66	DAMPER	AXA1010
	22	PLUG CORD			67	-----	
	23	AC POWER CORD	ADG1036		68	SCREW	BBZ26P080FMC
	24	GROUND LEAD			69	SCREW	BBZ40P080FZK
	25	SPACER SET			70	SCREW	CMZ30P040FZK
	26	CUSHION SPACER			71	NUT	NK90FCU
	27	-----			72	SCREW	PBZ20P040FZK
	28	STRAIN RELIEF	AEC-882		73	ADHESIVE TAPE	ZTABS-5
	29	WOOD COLOR	AEC1165		74	FU1 FUSE (T500mA)	AEK-401
	30	PCB SPACER			75	T1 POWER TRANSFORMER	ATT1124
	31	-----			76	T2 POWER TRANSFORMER	ATT1128
	32	STYROL PROTECTOR	AHA1003		77	CONTROL ASS'Y	AWZ2899
	33	STYROL PROTECTOR	AHA1004		78	FRONT INPUT ASS'Y	
	34	PACKING CASE	AHD1928		79	VOLUME DRIVE ASS'Y	
	35	-----			80	POWER ASS'Y	
	36	-----			81	-----	
	37	PACKING SHEET			82	-----	
	38	TERMINAL SCREW			83	-----	
	39	SHORT PIN PLUG	AKM-050		84	CAUTION SHEET	AAX1431
	40	-----			85	-----	
	41	PANEL BASE ASS'Y	AMB1683				
	42	FOOT ASS'Y	AMR1159				
	43	INDICATING LENS	AMR1160				
	44	JOINT	AMR1178				
	45	HINGE L					



1. RESISTORS:
Indicated in R, 1/8, 1/4W, ±5% tolerance unless otherwise noted
K; kΩ, M; MΩ, (F); ±1%, (G); ±2%, (K); ±10%, (M); ±20% tolerance.
2. CAPACITORS:
Indicated in capacity (μF) / voltage (V) unless otherwise noted p; pF.
Indication without voltage is 50V except electrolytic capacitor.
3. VOLTAGE CURRENT:
□ : DC voltage (V) at no input signal.
Value in () is DC voltage at rated power.
⊖mA : DC current at no input signal.
4. OTHERS
• ← : Signal route.
• ⊕ : Adjusting point.
• The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
• ⌘ marked capacitor and resistor have parts number.
• This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.
5. SWITCHES (The underline indicates the switch position)
CONTROL Assembly
S701 : POWER SW (STANDBY-ON)
S702 : LD
S703 : T/VAUX
S704 : VCR1
S705 : VCR2
S706 : VIDEO
S707 : PHONO
S708 : TAPE 2/MONITOR
S709 : CD
S710 : TUNER
S711 : TAPE 1/DAT
S712 : MUTING
S713 : SUBSONIC
S714 : PHONO-SEL
S715 : DIRECT
S716 : V-SEL
S717 : REC-SEL
Outside of P.C. Board
S2 : VOLTAGE SELECTOR AKX-507 (SD type only)
S1 : VOLTAGE SELECTOR AKX-507 (SD type only)

A

B

C

D

POWER ASS'Y

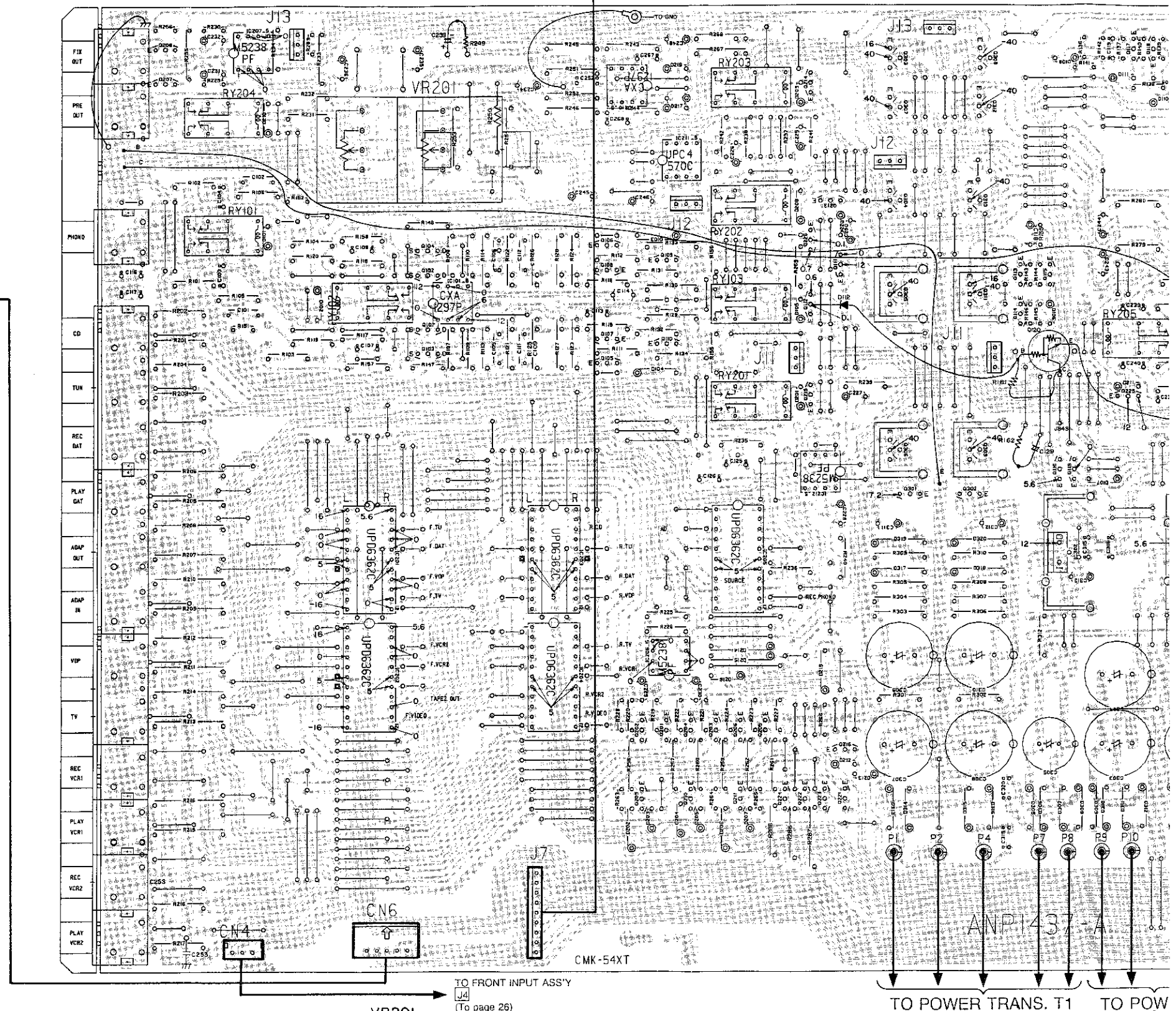
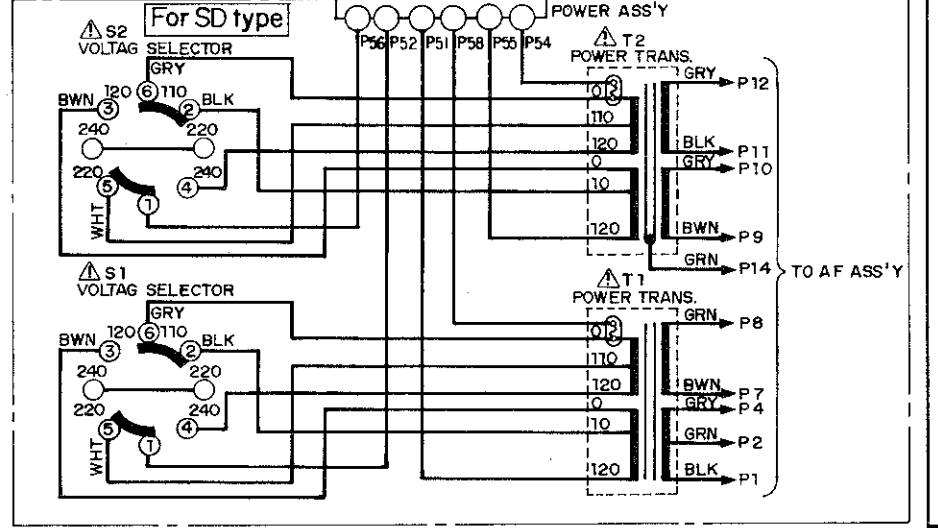
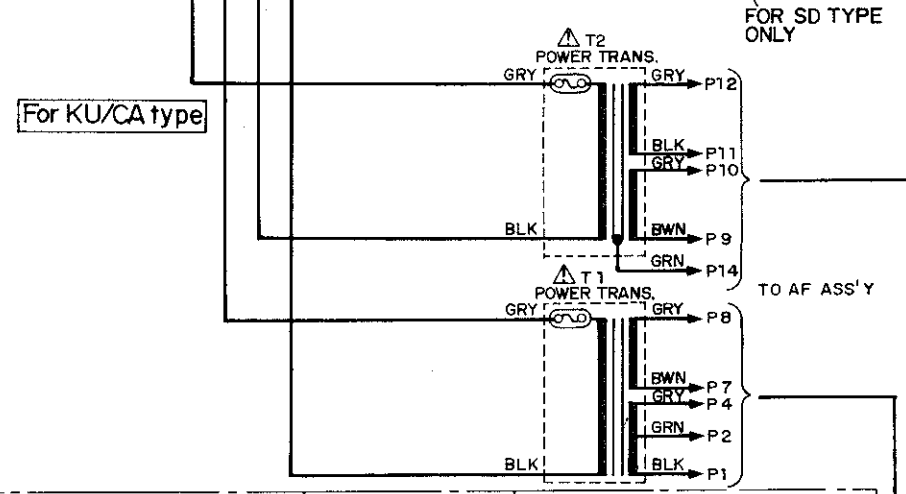
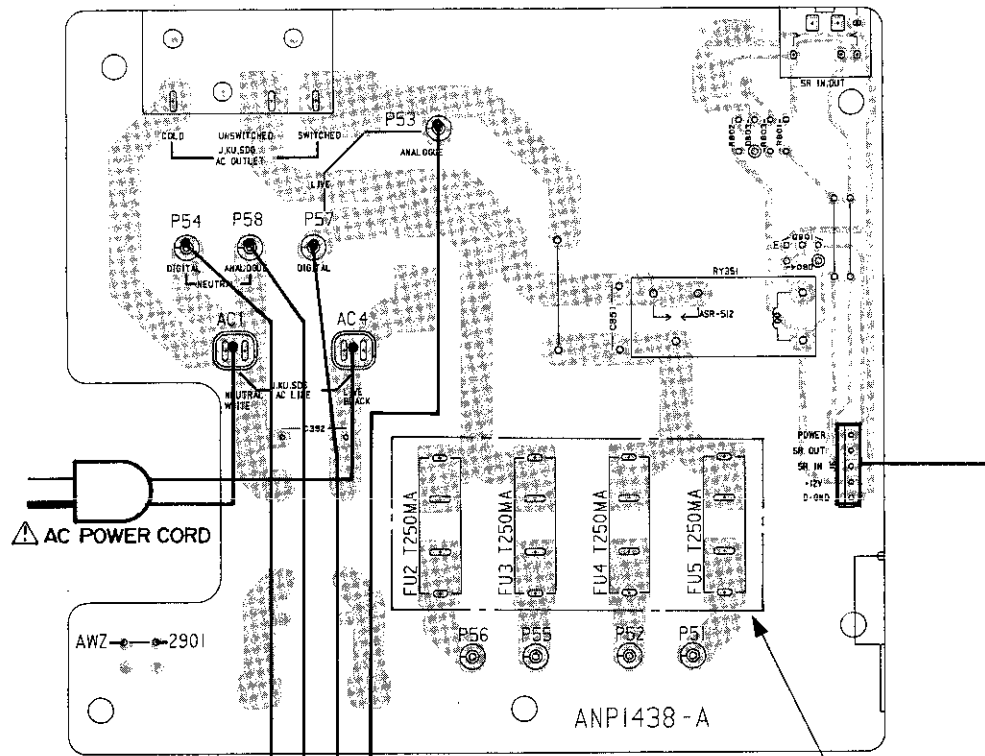
AF ASS'Y (AWK1301)

A

B

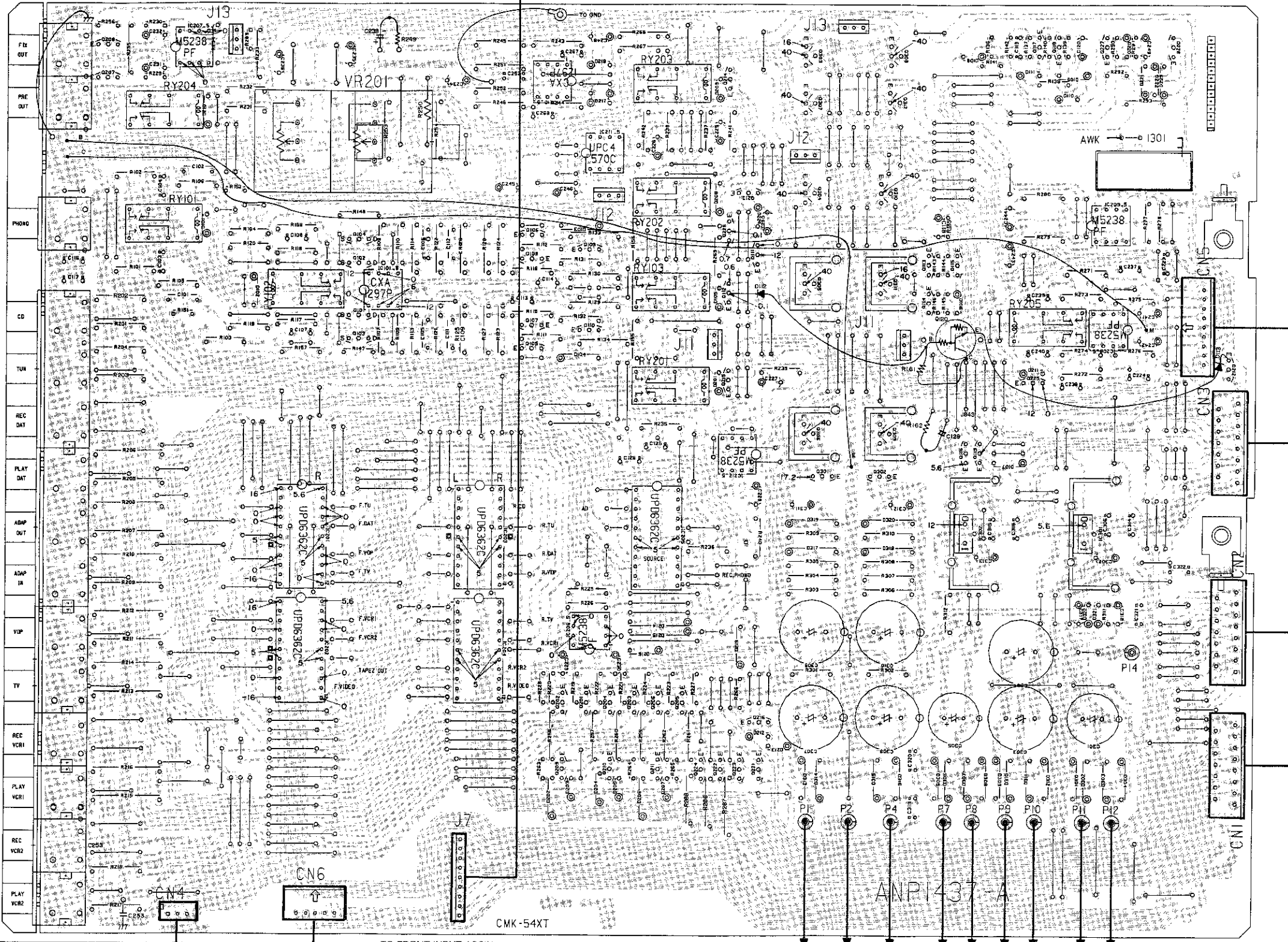
C

D



Q208	IC207	IC210 IC211	Q214	Q303	Q308
Q207	Q104	Q106 Q109	Q226 Q213	Q307	Q312
	Q102 IC101	Q108	Q112 Q111	Q304	Q310
	Q101	Q107 Q110	IC212	Q305	Q311
	Q103	Q105	IC205	Q306	Q309
	IC201	IC203	IC206	Q301	Q302
	IC202	IC204	Q202 Q201 Q204 Q203 Q206 Q205 Q216	Q113	Q115
			Q209 Q210 Q211 Q224 Q222 Q223 Q221	Q114	Q120
				Q116	Q119
					IC302
					Q225
					Q117 Q1

AF ASS'Y (AWK1301)



- TO VIDEO ASS'Y
CN7
(To page 25)
- TO CONTROL ASS'Y
J3
(To page 25)
- TO CONTROL ASS'Y
J2
(To page 25)
- TO CONTROL ASS'Y
J1
(To page 24)
- TO CONTROL ASS'Y
J5
(To page 25)

1. This P.C.B. connection diagram is seen from the parts mount side.
2. The parts mounted on to the P.C.B. can be replaced with those shown in the following correspondence table with wiring marks.

Indication of the P.C.B. pattern	Symbol of corresponding parts	Parts name
EO Q504	or	Transistor
Q215		Radiator type transistor
D203		Diode
R237		Resistor
C513		Condenser (Polar type)
C518		Condenser (Non-polar type)

Others

Wiring mark on the P.C.B. pattern diagram	Parts list
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or semi-fixed resistor

3. The condenser terminal marked with double circles (⊙) represents (-) terminal.
4. The diode terminal marked with double circles (⊙) represents the cathode side.
5. The transistor terminal marked with "E" represents an emitter.

Q208 Q207	IC207	IC210 IC211	Q214 Q226 Q213 Q112 Q111 Q215 IC212	Q303 Q308 Q307 Q312 Q304 Q310 Q305 Q311 Q306 Q309 Q301 Q302	Q113 Q115 Q114 Q120 Q116 Q119 IC302	Q117 Q118 Q227 Q228	IC209 IC208 IC301	Q212
Q104 Q102 IC101 Q101 Q103 IC201 IC202	IC203 IC204	Q106 Q109 Q107 Q110 Q105	IC206 Q202 Q201 Q204 Q203 Q206 Q205 Q216 Q209 Q210 Q211 Q224 Q222 Q223 Q221					

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

AF ASSY (WK1301)

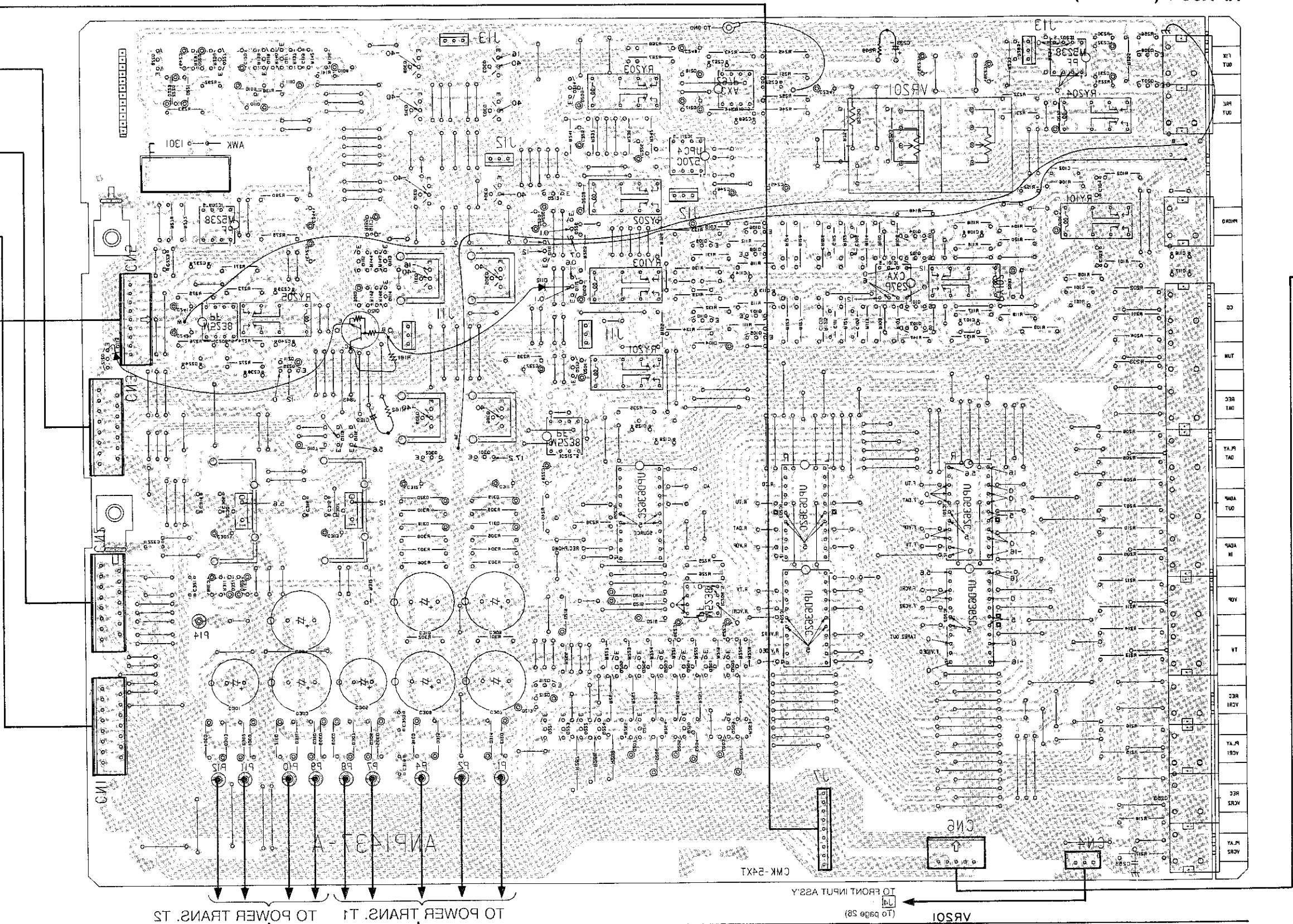
TO VIDEO ASSY
 CN7
 (To page 25)

TO CONTROL ASSY
 J3
 (To page 25)

TO CONTROL ASSY
 J5
 (To page 25)

TO CONTROL ASSY
 J1
 (To page 24)

TO CONTROL ASSY
 J2
 (To page 25)



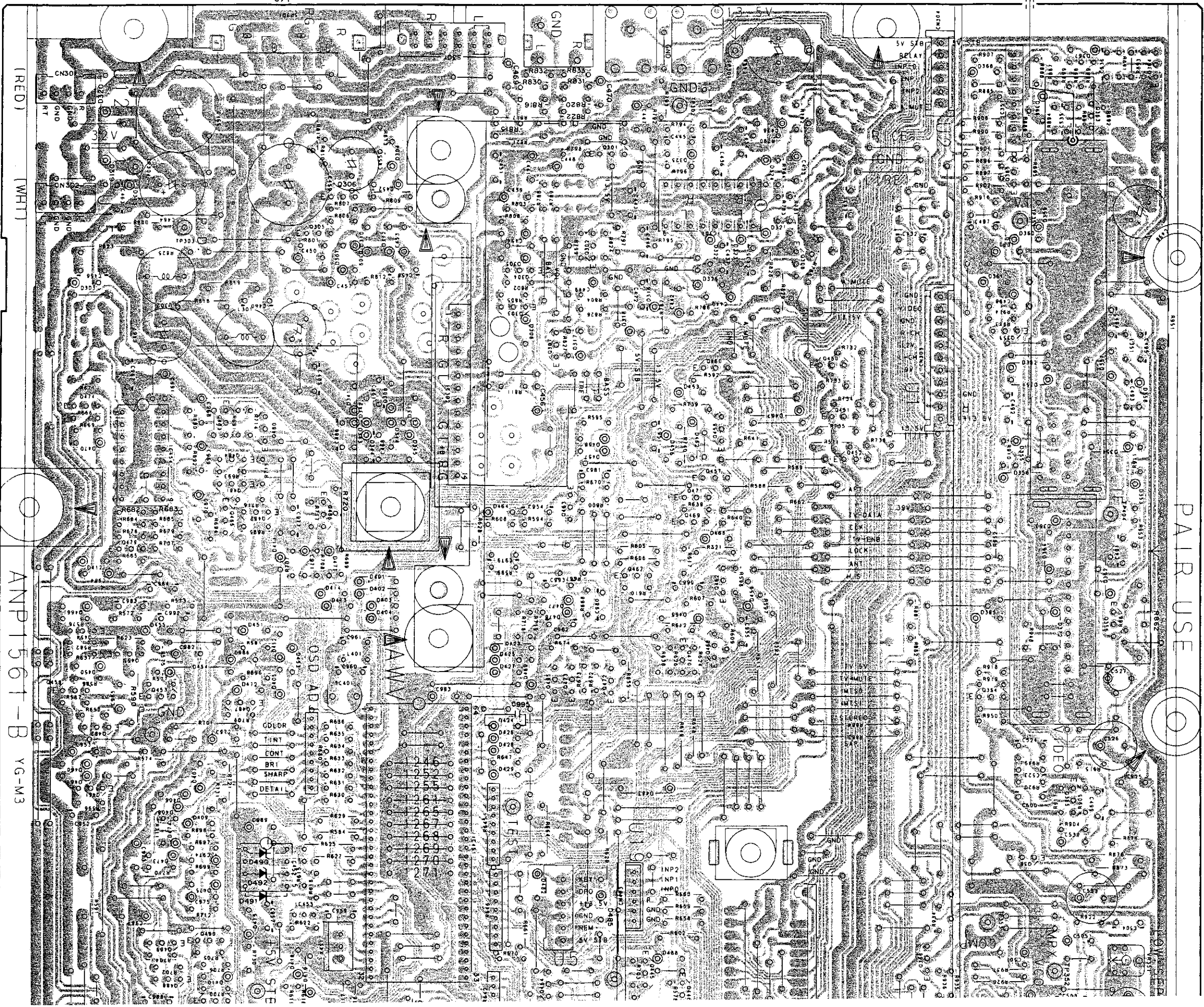
TO POWER TRANS. T1
 0518 0519 0520 0521 0522 0523 0524 0525 0526 0527 0528 0529 0530 0531 0532 0533 0534 0535 0536 0537 0538 0539 0540 0541 0542 0543 0544 0545 0546 0547 0548 0549 0550 0551 0552 0553 0554 0555 0556 0557 0558 0559 0560 0561 0562 0563 0564 0565 0566 0567 0568 0569 0570 0571 0572 0573 0574 0575 0576 0577 0578 0579 0580 0581 0582 0583 0584 0585 0586 0587 0588 0589 0590 0591 0592 0593 0594 0595 0596 0597 0598 0599 0600

TO FRONT INPUT ASSY
 (To page 28)

VR301

IC301 IC302 IC303 IC304 IC305 IC306 IC307 IC308 IC309 IC310 IC311 IC312 IC313 IC314 IC315 IC316 IC317 IC318 IC319 IC320 IC321 IC322 IC323 IC324 IC325 IC326 IC327 IC328 IC329 IC330 IC331 IC332 IC333 IC334 IC335 IC336 IC337 IC338 IC339 IC340 IC341 IC342 IC343 IC344 IC345 IC346 IC347 IC348 IC349 IC350 IC351 IC352 IC353 IC354 IC355 IC356 IC357 IC358 IC359 IC360 IC361 IC362 IC363 IC364 IC365 IC366 IC367 IC368 IC369 IC370 IC371 IC372 IC373 IC374 IC375 IC376 IC377 IC378 IC379 IC380 IC381 IC382 IC383 IC384 IC385 IC386 IC387 IC388 IC389 IC390 IC391 IC392 IC393 IC394 IC395 IC396 IC397 IC398 IC399 IC400

TUNER-VIDEO ASSEMBLY
(AWV1271)



PAIR USE

ANTENNA

CONTROL IN

CONTROL OUT

AUDIO OUTPUT VARIABLE

SP SELECT

EXTERNAL SPEAKERS

(RED)

(WHT)

ANP1561-B YG-M3

F

E

D

C

B

A

1

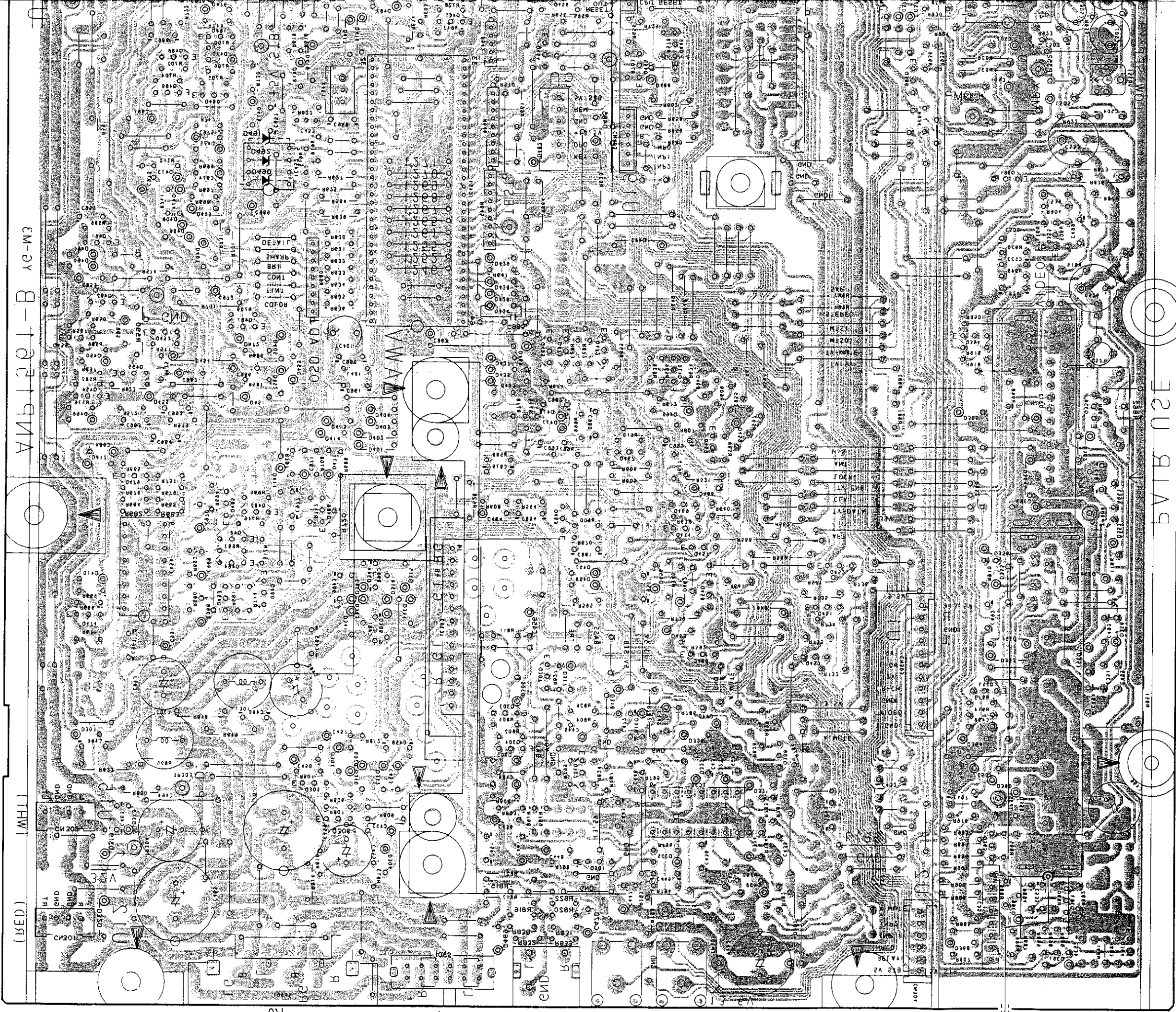
2

3

4

5

Section diagram is viewed from the foil side.



A-M-3

(BED) (MHL)

ANTENNA

EXTERNAL SPEAKERS

SELECT 2B

DIGITAL OUTPUT DATA

CONTROL IN

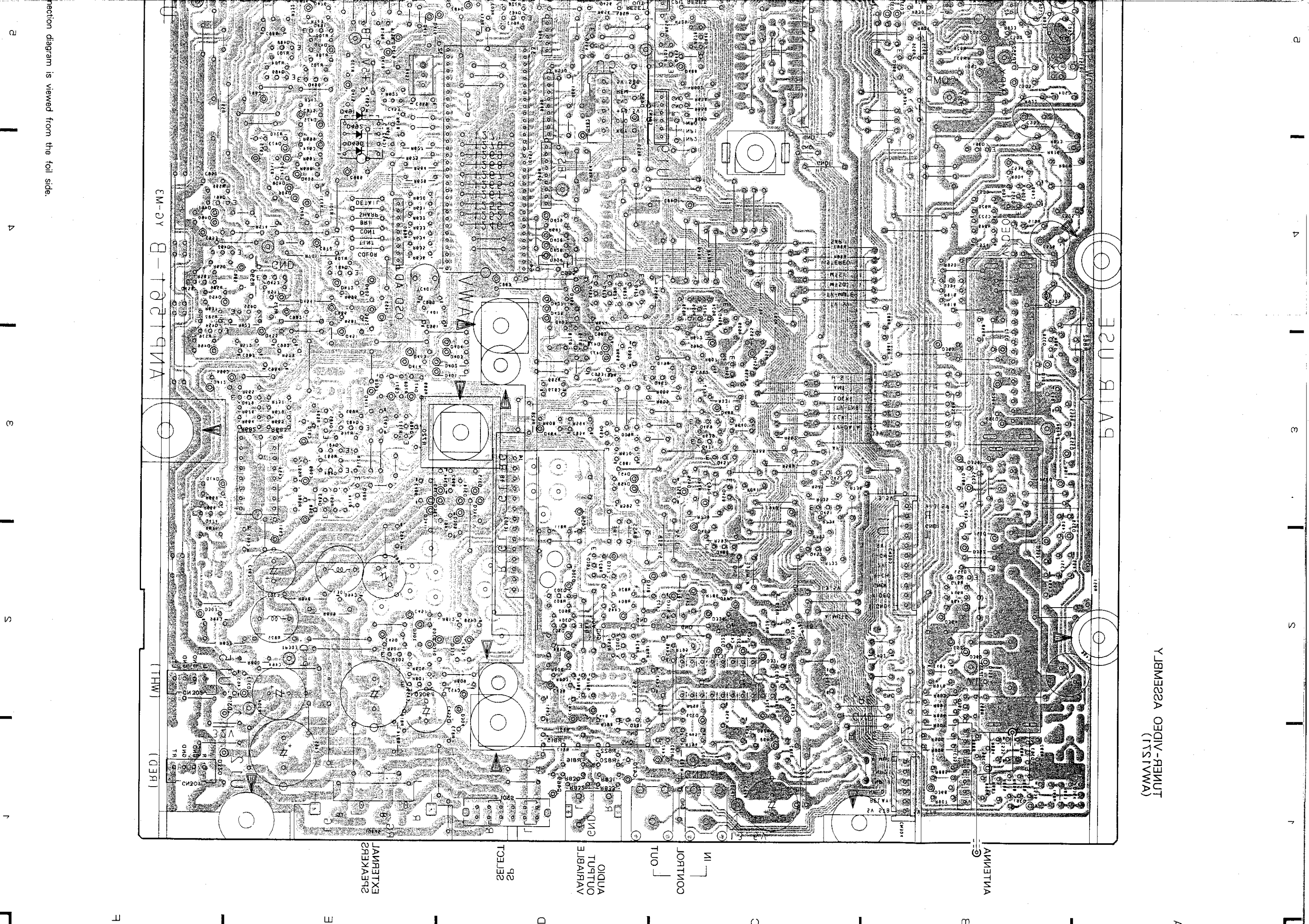
VIDEO

DATA IN

VIDEO

B-1B-2E

Y1BM32A 02IV-EMUT
(1T51WMA)



VIDEO ASS'Y (AWZ2900)

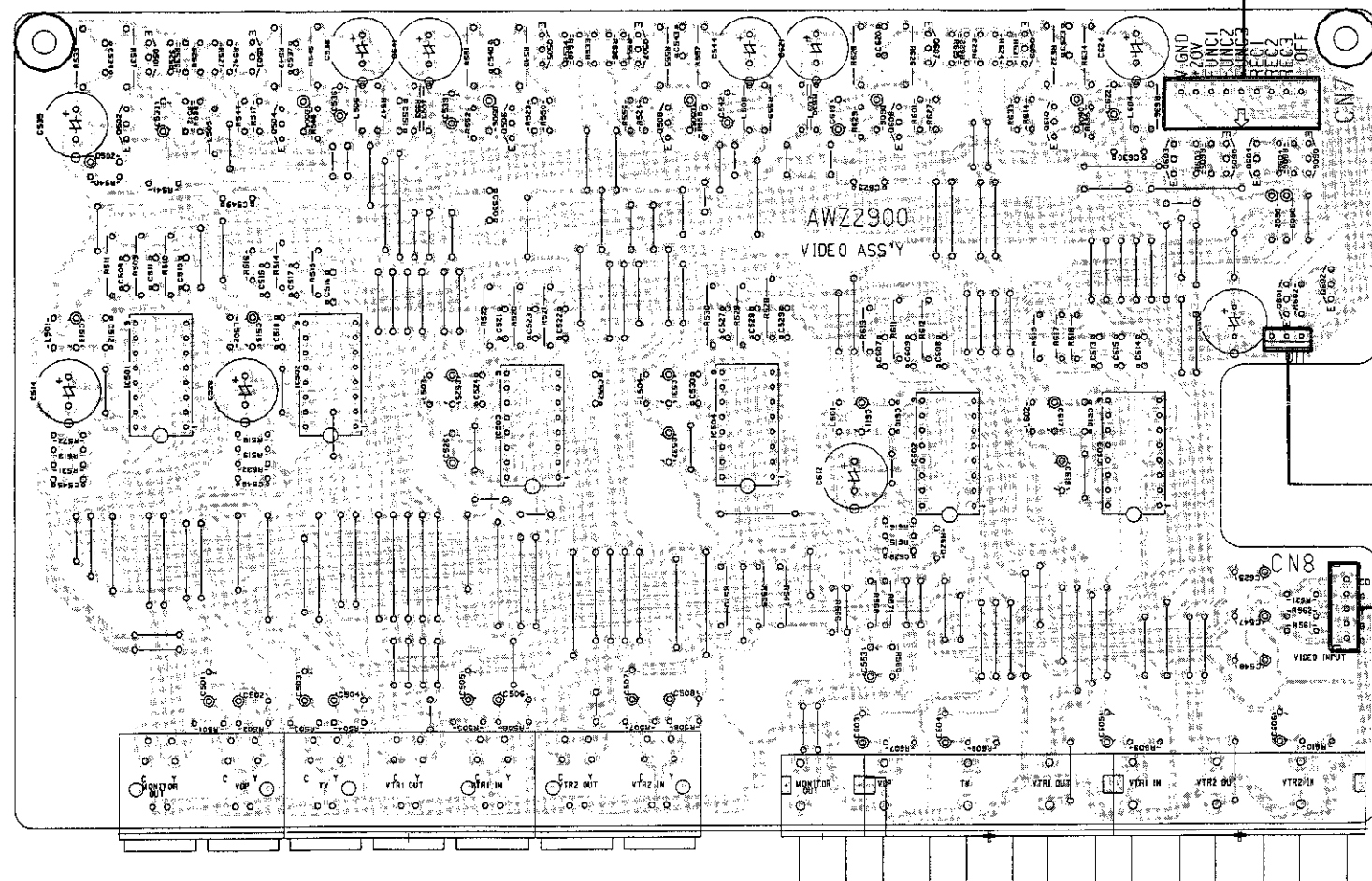
TO AF ASS'Y
J7
(To page 16)

TO AF ASS'Y
CN3
(To page 17)

TO AF ASS'Y
CN2
(To page 17)

TO AF ASS'Y
CN1
(To page 17)

TO AF ASS'Y
CN5
(To page 17)



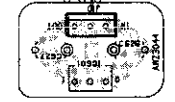
Q501 Q505 Q607
Q503 Q507 Q609
Q502 Q506 Q608
Q504 Q508 Q610

Q60
Q60
Q60

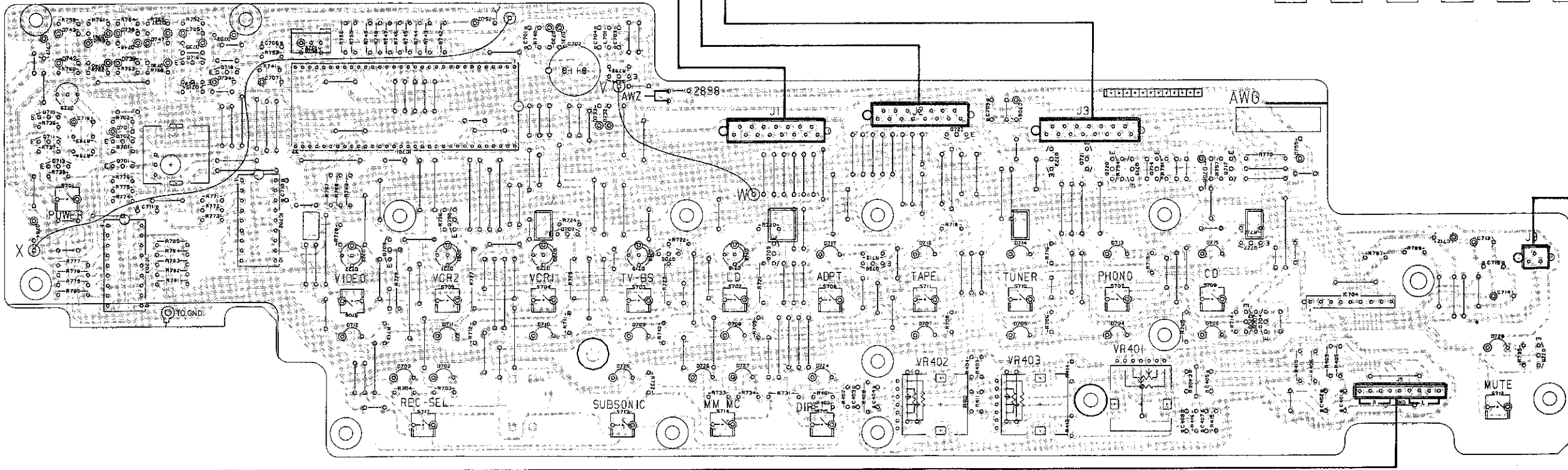
Q60
Q60

IC501 IC503 IC602
IC502 IC504 IC603

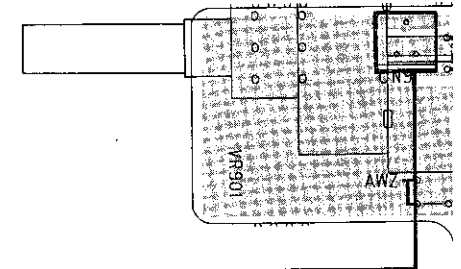
REGULATOR



CONTROL ASS'Y (AWZ2898)



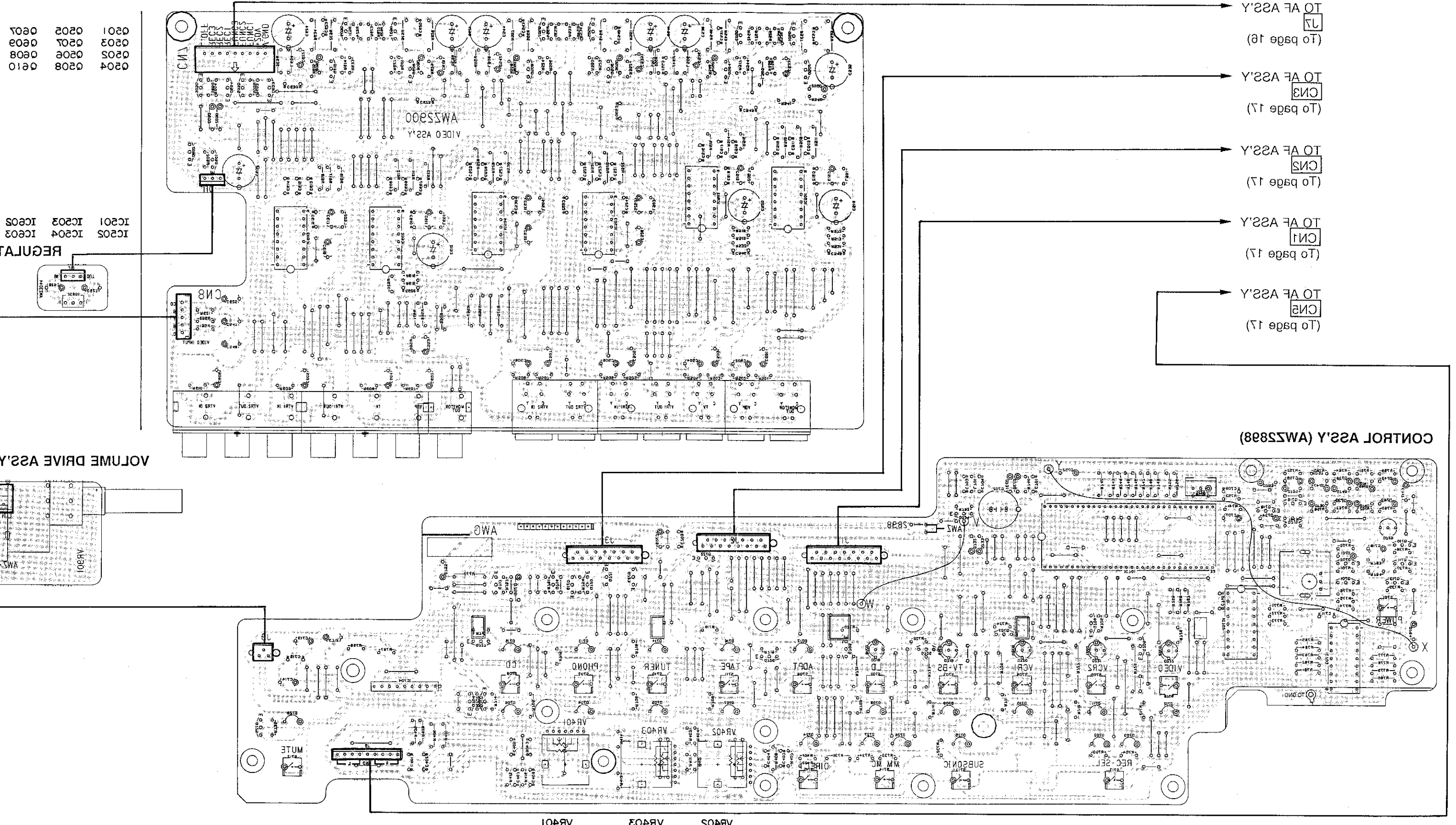
VOLUME DRIVE ASS'Y



Q710 Q702 Q716 Q718 Q724 VR402 VR403 VR401 Q717 IC704
Q711 Q701 Q715 Q718 Q722 Q723 Q720 Q719 Q717 Q727
Q713 IC703 IC702 IC701 Q709 Q708 Q707 Q706 Q705 Q726 Q703 Q704
Q725

VIDEO ASS'Y (AW35300)

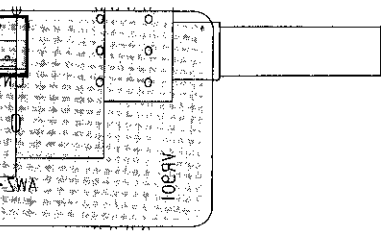
CONTROL ASS'Y (AW35388)



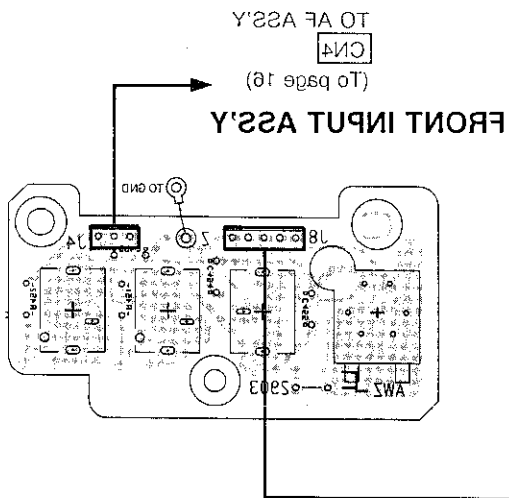
- IC203 0213 0211 0210
- IC205 0212 0218 0205 0203
- IC208 0208 0209 0201
- IC206 0206 0207 0208
- IC202 0202 0205
- IC204 0204 0203 0202 0217
- IC204 0214 0218 0219 0213 0212
- VR401 0211 0214 0218 0219 0213 0212
- VR403 0211 0214 0218 0219 0213 0212
- VR405 0211 0214 0218 0219 0213 0212
- VR406 0211 0214 0218 0219 0213 0212
- Q252 0252

- 0204 0208 0208 0210
- 0201 0202 0203 0208
- IC201 IC203 IC203
- IC205 IC204 IC203

VOLUME DRIVE ASS'Y

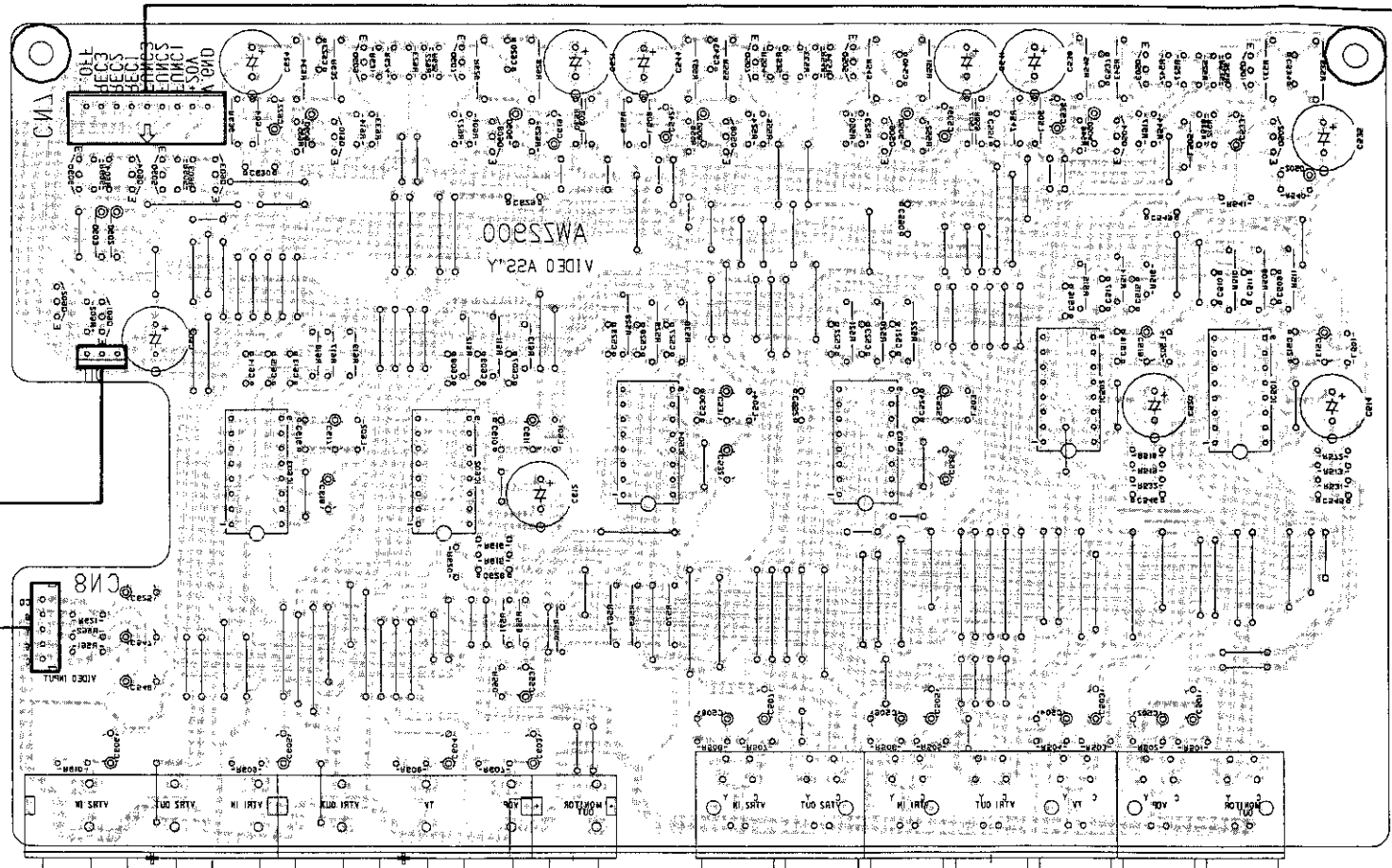


This P.C.B. connection diagram is viewed from the foil side.

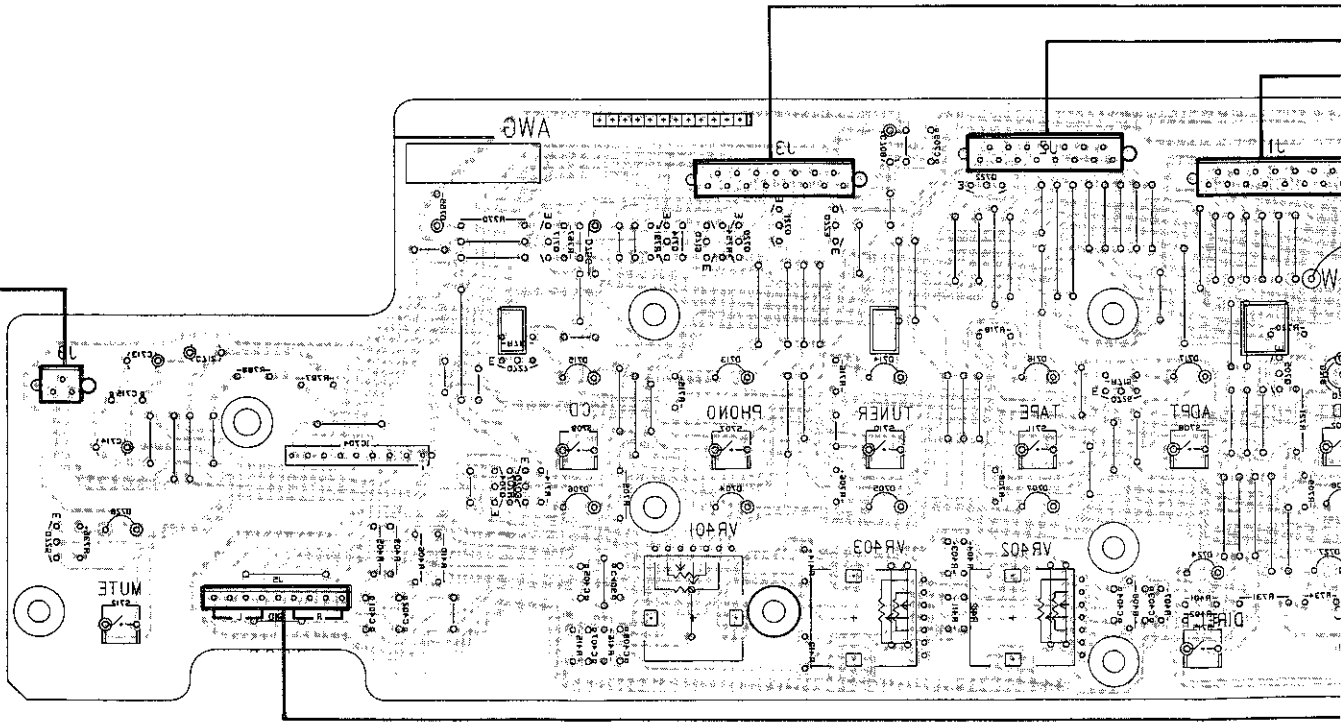
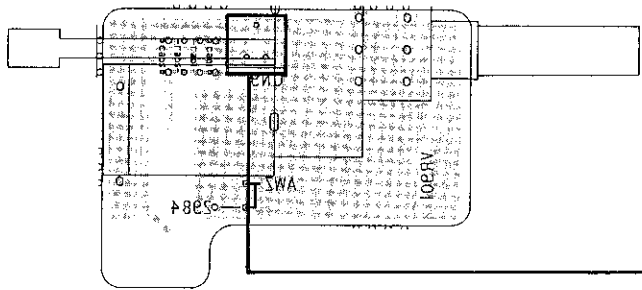


REGULATOR ASSY
 IC201 IC203 IC203
 IC205 IC204 IC203

- Q204
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VOLUME DRIVE ASSY



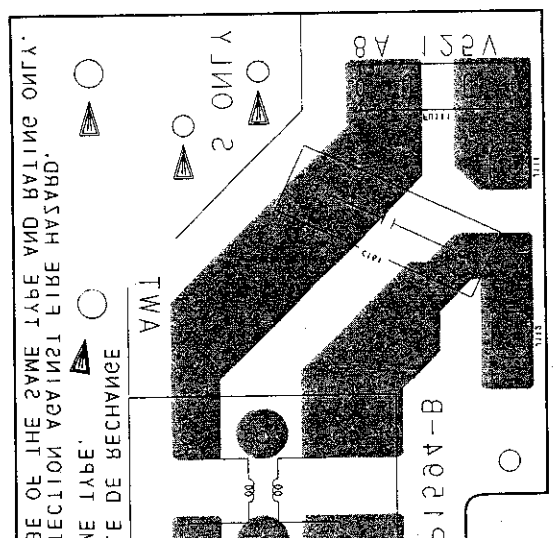
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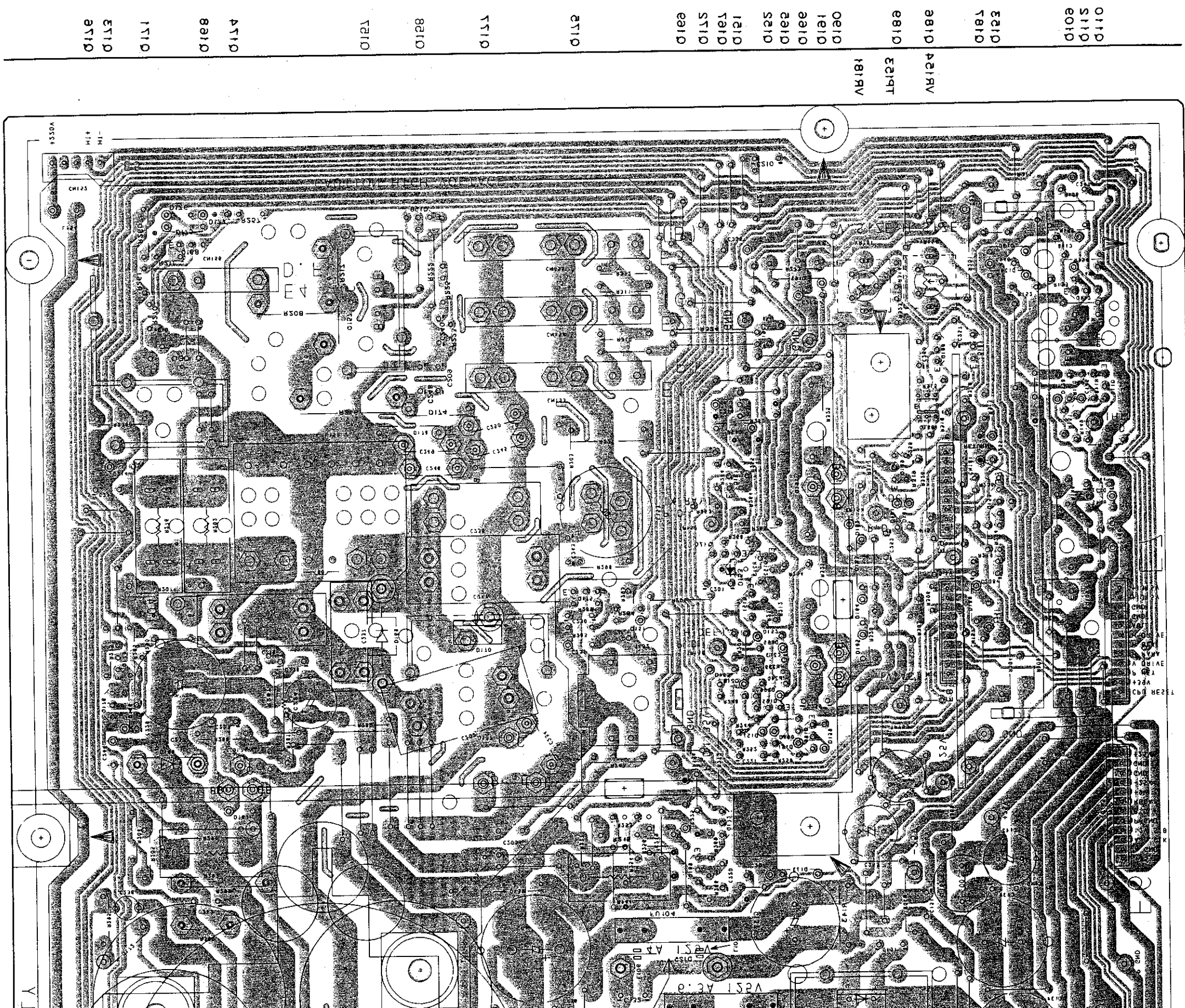
C

D



(4) POWER SUPPLY and LINE FILTER ASSEMBLIES

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



- 0110
- S110
- 8010
- 8210
- 7810
- 8810
- 421RV
- 8810
- 821PT
- 181RV
- 0810
- 1810
- 2810
- 3810
- 4810
- 5810
- 6810
- 7810
- 8810
- 9810
- 0910
- 1910
- 2910
- 3910
- 4910
- 5910
- 6910
- 7910
- 8910
- 9910

F

E

D

C

B

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9

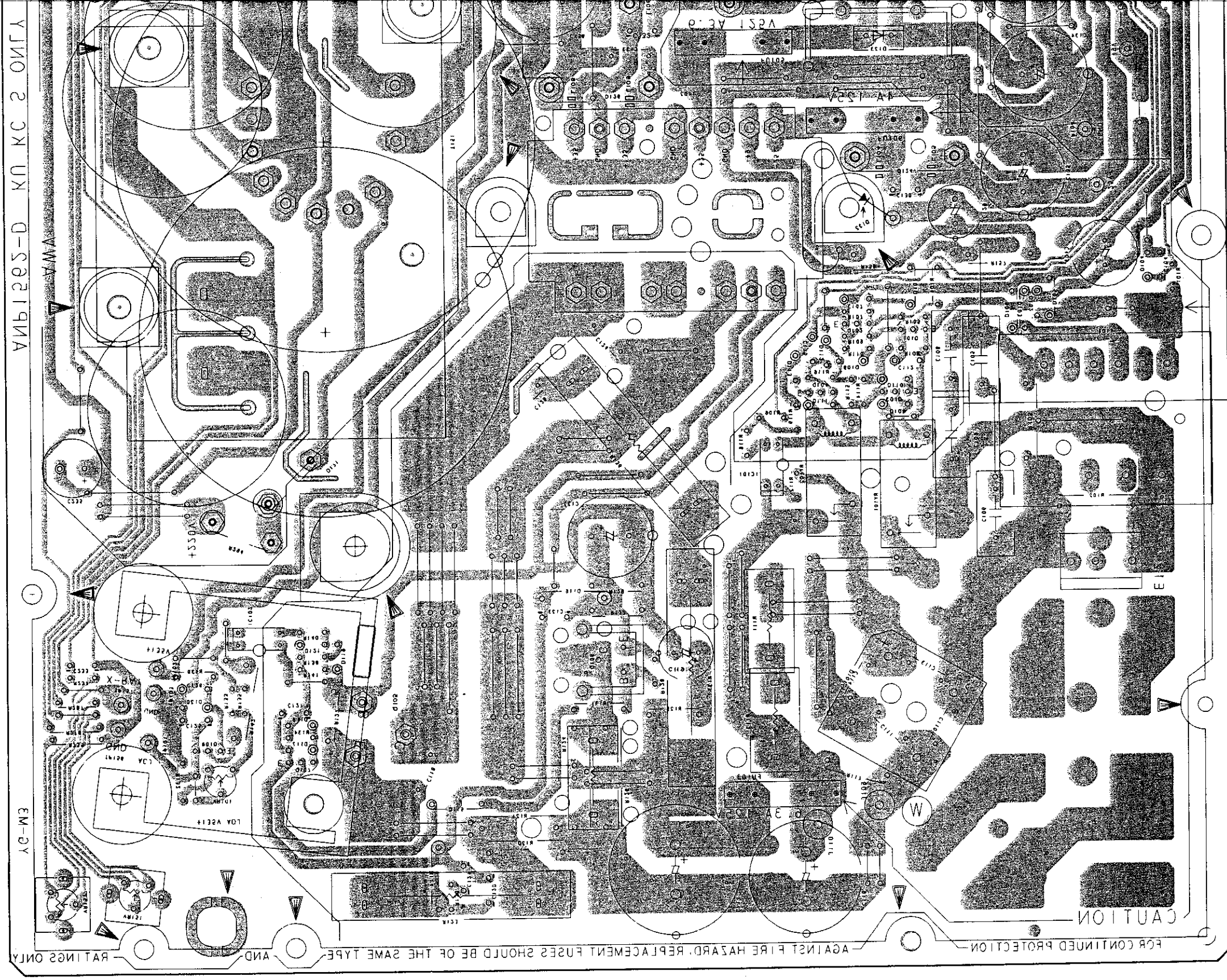
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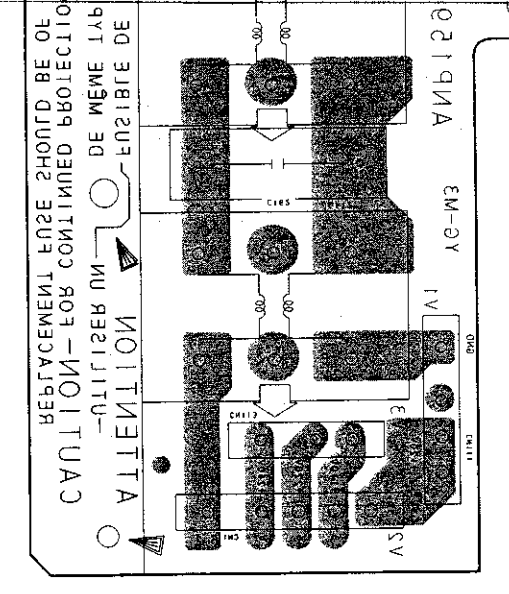
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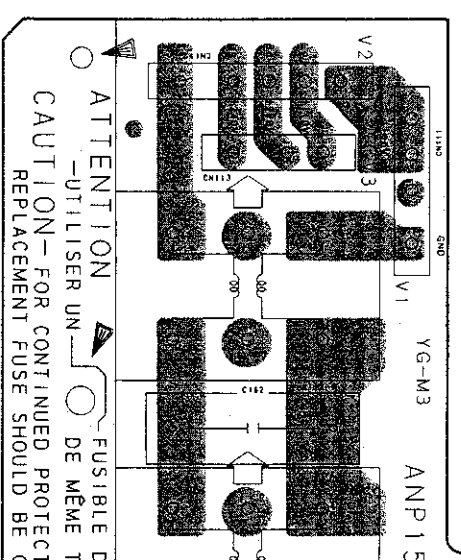
УИЫ1253-D КУ КС 2 ОИГД



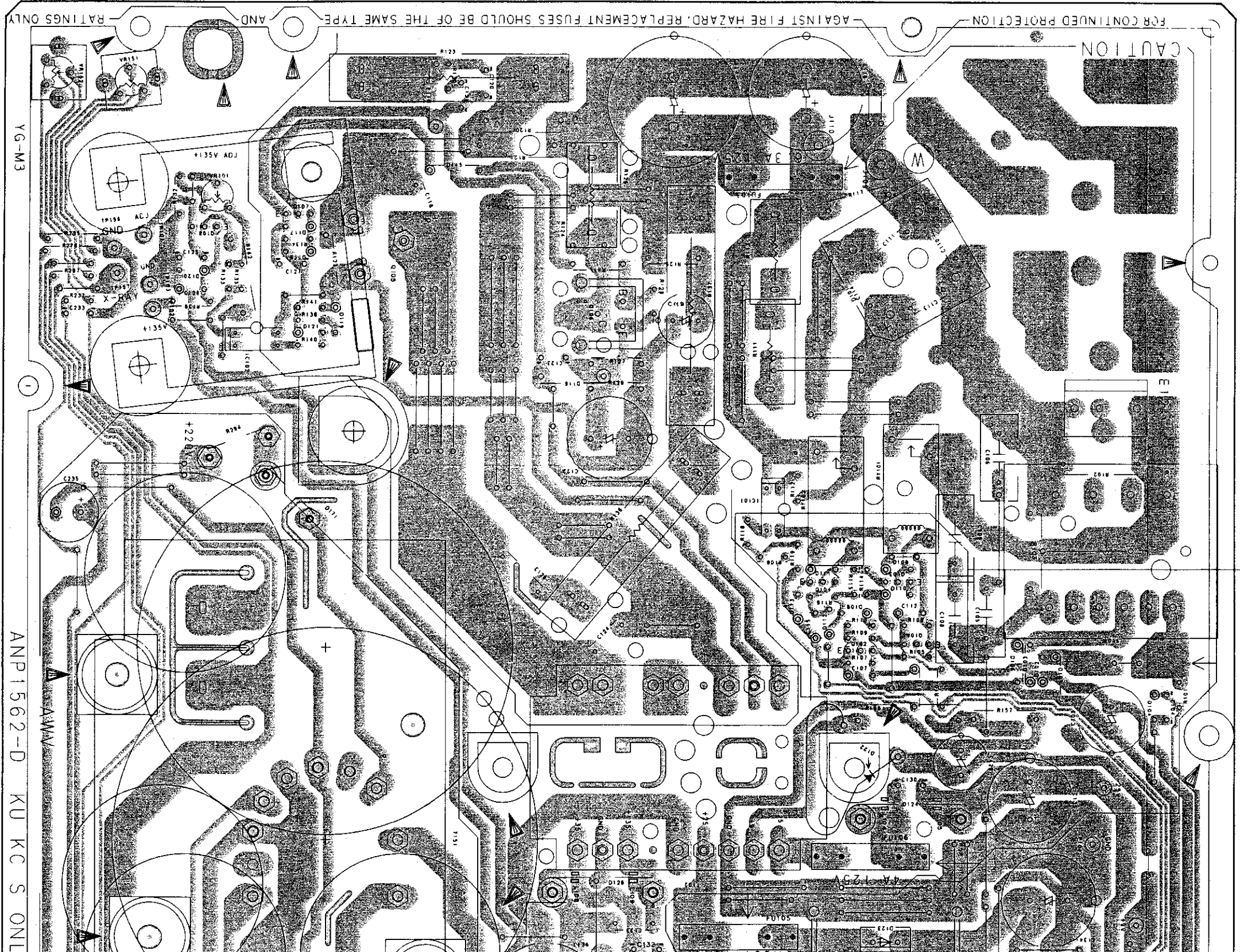
SA1RV
 121RV
 101RV
 1010
 1010
 1010
 2010
 3010
 4010
 5010
 6010
 7010
 8010
 9010
 A010
 B010
 C010
 D010
 E010
 F010
 G010
 H010
 J010
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 M010
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 Q010
 R010
 S010
 T010
 U010
 V010
 W010
 X010
 Y010
 Z010

☆ POWER SUPPLY ASSEMBLY (AMV1253)





★ POWER SUPPLY ASSEMBLY
 (AWV1295)



- Q101
- Q103
- Q102
- Q104
- IC101
- Q106
- Q105
- Q107
- IC102
- Q108
- VR101
- VR151
- VR152

ANP1562-D KU KC S ONLL

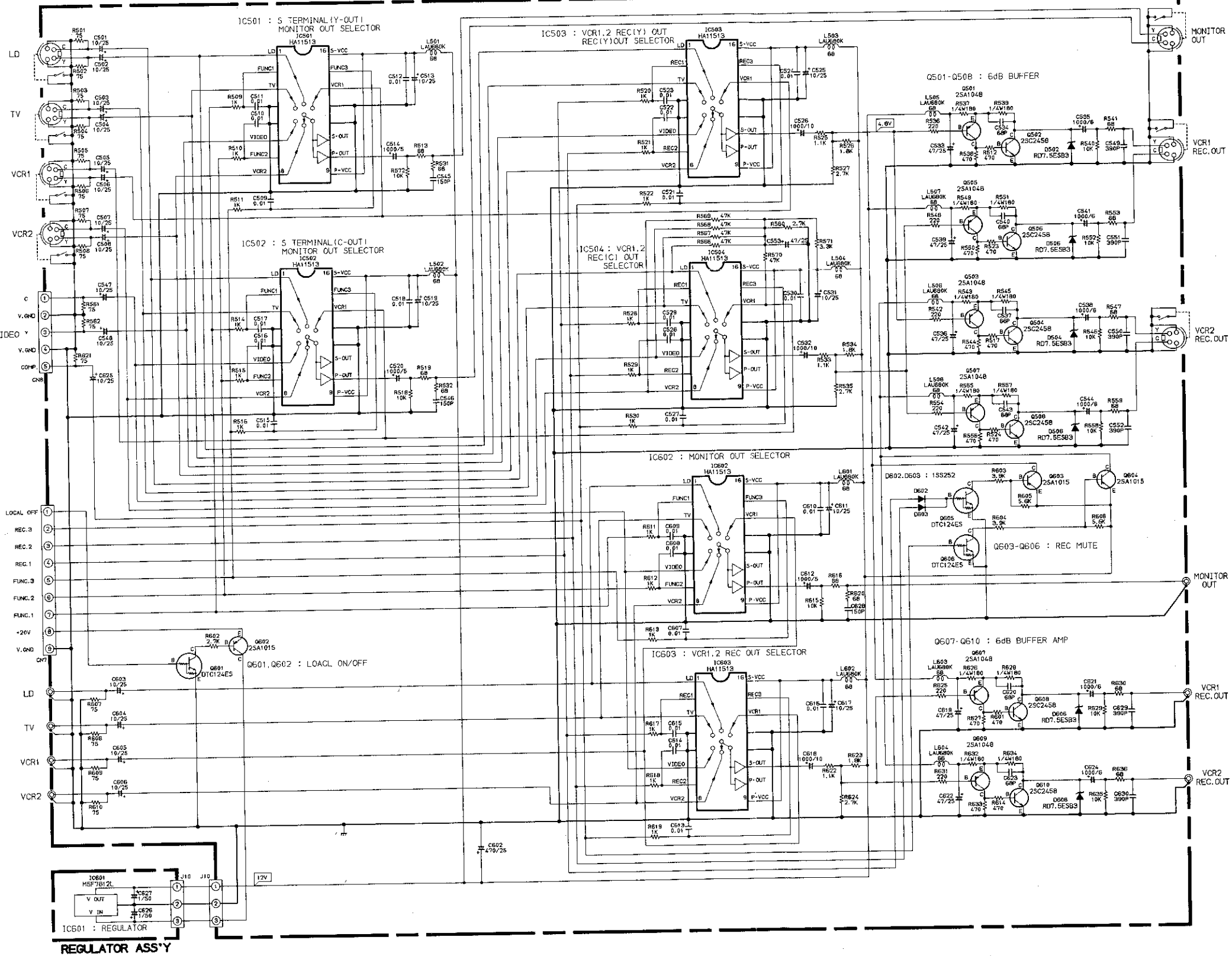
VIDEO ASS'Y AWZ2900

A

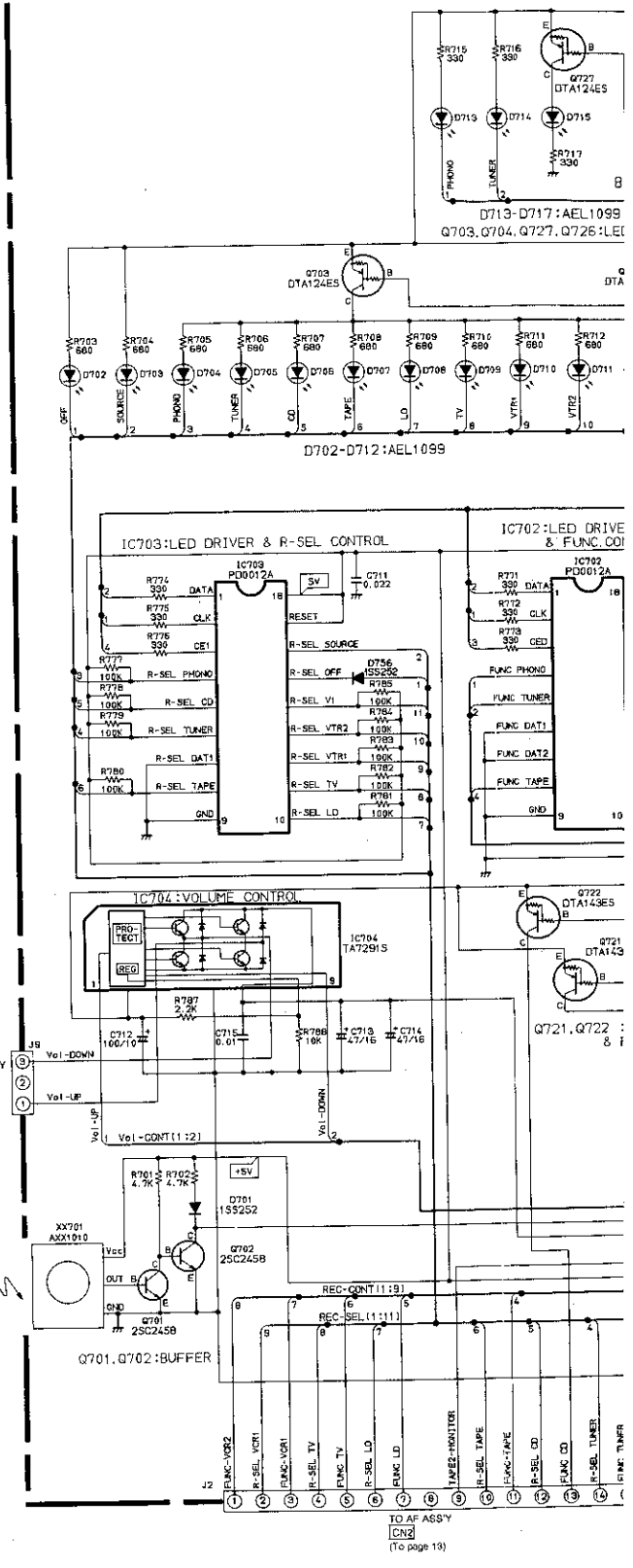
B

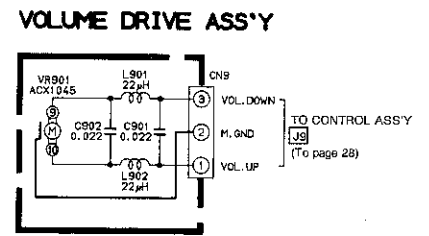
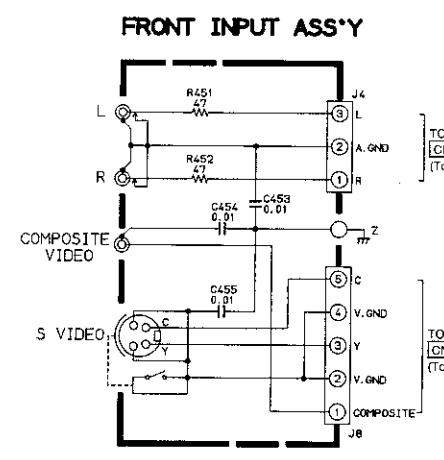
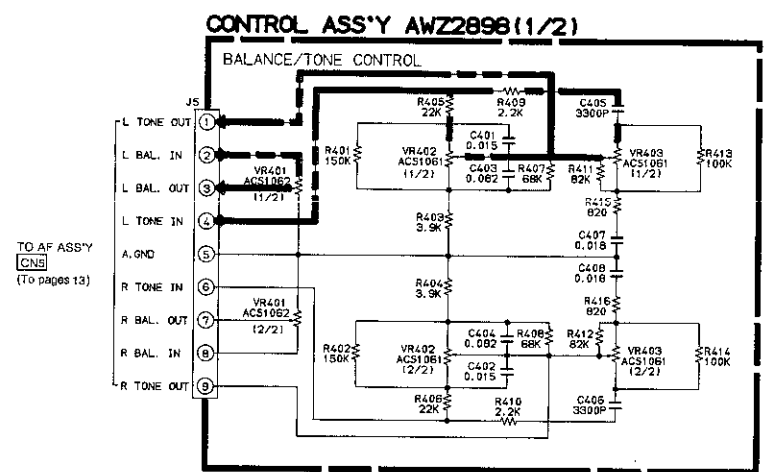
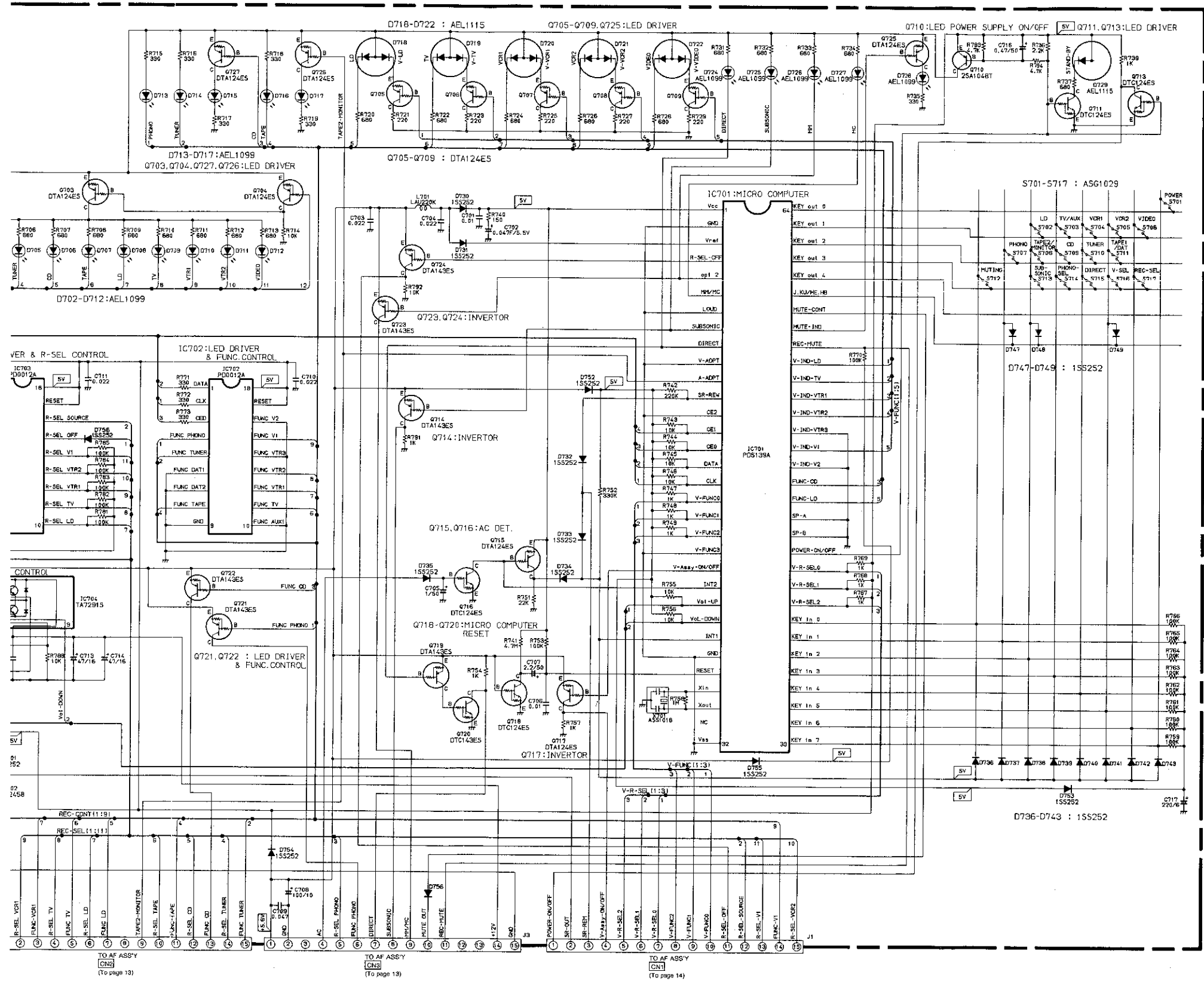
C

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CONTROL ASS'Y AWZ2998 (2/2)





3.2 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%).

560 Ω	56 × 10 ¹	561.....	RD1/4PS	5	6	1	J
47k Ω	47 × 10 ³	473.....	RD1/4PS	4	7	3	J
0.5 Ω	0R5.....		RN2H	0	5		K
1 Ω	010.....		RS1P	0	1		K

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

5.62k Ω	562 × 10 ¹	5621.....	RN1/4SR	5	6	2	1	F
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Mark.	No.	Description	Parts No.	Mark.	No.	Description	Parts No.
POWER ASS'Y				REGULATOR ASS'Y			
SEMICONDUCTORS				SEMICONDUCTORS			
	Q801	TRANSISTOR	DTC143ES		IC601	REGULATOR IC	M5F7812L
	D803	ZENER DIODE	RD5.1ESB	CAPACITORS			
	D804	DIODE	1SS252		C626,C627	ELECTR. CAPACITOR	CEHAQ010M50
CAPACITORS				VIDEO ASS'Y (AWZ2900)			
	Δ C351,C352	CKA(0.01/AC400V)	ACG1002	SEMICONDUCTORS			
RESISTORS					IC501-IC504	5CH VIDEO-SW IC	HA11513
	R801-R803	CARBON FILM RESISTOR	RD1/8PM□□□J		IC602,IC603	5CH VIDEO-SW IC	HA11513
OTHERS					Q501	TRANSISTOR	2SA1048
	Δ RY351	RELAY	ASR-512		Q502	TRANSISTOR	2SC2458
		JACK(CONTROL)	AKN1006		Q503	TRANSISTOR	2SA1048
		AC OUTLET(3P)	AKP1053		Q504	TRANSISTOR	2SC2458
FRONT INPUT ASS'Y					Q505	TRANSISTOR	2SA1048
CAPACITORS					Q506	TRANSISTOR	2SC2458
	C453-C455	CERAMIC CAPACITOR	CKDYF103Z50		Q507	TRANSISTOR	2SA1048
RESISTORS					Q508	TRANSISTOR	2SC2458
	R451,R452	CARBON FILM RESISTOR	RD1/8PM470J		Q601	TRANSISTOR	DTC124ES
OTHERS					Q602-Q604	TRANSISTOR	2SA1515
		PIN JACK(1P)(AUDIO)	AKB1082		Q605,Q606	TRANSISTOR	DTC124ES
		PIN JACK(1P)(VIDEO)	AKB1083		Q607	TRANSISTOR	2SA1048
		SOCKET(S-VIDEO)	AKP1067		Q608	TRANSISTOR	2SC2458
VOLUME DRIVE ASS'Y					Q609	TRANSISTOR	2SA1048
CAPACITORS					Q610	TRANSISTOR	2SC2458
	C901,C902	CERAMIC CAPACITOR	CKCYF223Z50		D502	ZENER DIODE	RD7.5ESB3
COILS & FILTERS					D504	ZENER DIODE	RD7.5ESB3
	L901,L902	AXIAL INDUCTOR	LAU220K		D506	ZENER DIODE	RD7.5ESB3
RESISTOR					D508	ZENER DIODE	RD7.5ESB3
	VR901	VOLUME CONTROL(MOTOR)	ACX1045		D602,D603	DIODE	1SS252
OTHERS					D606	ZENER DIODE	RD7.5ESB3
	CN9	CONNECTOR(3P)	KPE3		D608	ZENER DIODE	RD7.5ESB3
				COILS & FILTERS			
					L501-L508	AXIAL INDUCTOR	LAU680K
					L601-L604	AXIAL INDUCTOR	LAU680K

Mark. No.	Description	Parts No.
CAPACITORS		
C501-C508	ELECTR. CAPACITOR	CEAS100M25
C509-C512	CERAMIC CAPACITOR	CKDYF103Z50
C513	ELECTR. CAPACITOR	CEAS100M25
C514	ELECTR. CAPACITOR	CEAS102M6
C515-C518	CERAMIC CAPACITOR	CKDYF103Z50
C519	ELECTR. CAPACITOR	CEAS100M25
C520	ELECTR. CAPACITOR	CEAS102M6
C521-C524	CERAMIC CAPACITOR	CKDYF103Z50
C525	ELECTR. CAPACITOR	CEAS100M25
C526	ELECTR. CAPACITOR	CEAS101M10
C527-C530	CERAMIC CAPACITOR	CKDYF103Z50
C531	ELECTR. CAPACITOR	CEAS100M25
C532	ELECTR. CAPACITOR	CEAS101M10
C533	ELECTR. CAPACITOR	CEAS470M25
C534	CERAMIC CAPACITOR	CCDSL680J50
C535	ELECTR. CAPACITOR	CEAS102M6
C536	ELECTR. CAPACITOR	CEAS470M25
C537	CERAMIC CAPACITOR	CCDSL680J50
C538	ELECTR. CAPACITOR	CEAS102M6
C539	ELECTR. CAPACITOR	CEAS470M25
C540	CERAMIC CAPACITOR	CCDSL680J50
C541	ELECTR. CAPACITOR	CEAS102M6
C542	ELECTR. CAPACITOR	CEAS470M25
C543	CERAMIC CAPACITOR	CCDSL680J50
C544	ELECTR. CAPACITOR	CEAS102M6
C545,C546	CERAMIC CAPACITOR	CCDSL151J50
C547,C548	ELECTR. CAPACITOR	CEAS100M25
C549-C552	CERAMIC CAPACITOR	CKDYB391K50
C553	ELECTR. CAPACITOR	CEAS470M25
C602	ELECTR. CAPACITOR	CEAS471M25
C603-C606	ELECTR. CAPACITOR	CEAS100M25
C607-C610	CERAMIC CAPACITOR	CKDYF103Z50
C611	ELECTR. CAPACITOR	CEAS100M25
C612	ELECTR. CAPACITOR	CEAS102M6
C613-C616	CERAMIC CAPACITOR	CKDYF103Z50
C617	ELECTR. CAPACITOR	CEAS100M25
C618	ELECTR. CAPACITOR	CEAS101M10
C619	ELECTR. CAPACITOR	CEAS470M25
C620	CERAMIC CAPACITOR	CCDSL680J50
C621	ELECTR. CAPACITOR	CEAS102M6
C622	ELECTR. CAPACITOR	CEAS470M25
C623	CERAMIC CAPACITOR	CCDSL680J50
C624	ELECTR. CAPACITOR	CEAS102M6
C625	ELECTR. CAPACITOR	CEAS100M25
C628	CERAMIC CAPACITOR	CCDSL151J50
C629,C630	CERAMIC CAPACITOR	CKDYB391K50
RESISTORS		
R537	CARBON FILM RESISTOR	RD1/4PM□□□J
R539	CARBON FILM RESISTOR	RD1/4PM□□□J
R543	CARBON FILM RESISTOR	RD1/4PM□□□J
R545	CARBON FILM RESISTOR	RD1/4PM□□□J
R549	CARBON FILM RESISTOR	RD1/4PM□□□J

Mark. No.	Description	Parts No.
R551	CARBON FILM RESISTOR	RD1/4PM□□□J
R555	CARBON FILM RESISTOR	RD1/4PM□□□J
R557	CARBON FILM RESISTOR	RD1/4PM□□□J
R626	CARBON FILM RESISTOR	RD1/4PM□□□J
R628	CARBON FILM RESISTOR	RD1/4PM□□□J
R632	CARBON FILM RESISTOR	RD1/4PM□□□J
R634	CARBON FILM RESISTOR	RD1/4PM□□□J
	OTHER RESISTORS	RD1/8PM□□□J

OTHERS

Mark. No.	Description	Parts No.
CN7	CONNECTOR(9P) PIN JACK(3P)(VCR1 IN- VCR2 IN-VCR2 OUT) PIN JACK(3P)(LD IN- TV/AUX IN-VCR1 OUT) PIN JACK(1P) (MONITOR OUT) SOCKET(4Px2, DIN) (MONITOR OUT-LD IN)	KPC9 AKB1143 AKB1150 AKB1152 AKP1064
	SOCKET(4Px3, DIN) (TV/AUX-VCR1 IN- VCR1 OUT)	AKP1065

CONTROL ASS'Y (AWZ2898)

SEMICONDUCTORS

Mark. No.	Description	Parts No.
IC701	AMP CONTROL MICOM	PD5139A
IC702,IC703	OUTPUT EXPANDER IC	PD0012A
IC704	MECHANISM DRIVER IC	TA7291S
Q701,Q702	TRANSISTOR	2SC2458
Q703-Q709	TRANSISTOR	DTA124ES
Q710	TRANSISTOR	2SA1048
Q711	TRANSISTOR	DTC124ES
Q713	TRANSISTOR	DTC124ES
Q714	TRANSISTOR	DTA143ES
Q715	TRANSISTOR	DTA124ES
Q716	TRANSISTOR	DTC124ES
Q717	TRANSISTOR	DTA124ES
Q718	TRANSISTOR	DTC124ES
Q719	TRANSISTOR	DTA143ES
Q720	TRANSISTOR	DTC143ES
Q721-Q724	TRANSISTOR	DTA143ES
Q725-Q727	TRANSISTOR	DTA124ES
D701	DIODE	1SS252
D702-D717	LED(RED)	AEL1099
D718-D722	LED(RED,AMBER)	AEL1115
D724-D728	LED(RED)	AEL1099
D729	LED(RED,AMBER)	AEL1115
D730-D743	DIODE	1SS252
D747-D749	DIODE	1SS252
D752-D756	DIODE	1SS252

COIL & FILTER

Mark. No.	Description	Parts No.
L701	AXIAL INDUCTOR	LAU220K

Mark. No.	Description	Parts No.	Mark. No.	Description	Parts No.
CAPACITORS			Q216	TRANSISTOR	DTA143ES
C401,C402	AUDIO FILM CAPACITOR	CFTXA153J50	Q221	TRANSISTOR	DTA143ES
C403,C404	AUDIO FILM CAPACITOR	CFTXA823J50	Q222-Q224	TRANSISTOR	2SA1048
C405,C406	MYLOR FILM CAPACITOR	CQMA332J50	Q225	TRANSISTOR	DTC143ES
C407,C408	AUDIO FILM CAPACITOR	CFTXA183J50	Q226	TRANSISTOR	2SC2458
C701	CERAMIC CAPACITOR	CKCYF103Z50	Q227	TRANSISTOR	DTA143ES
C702	CEA(47000/5.5V)	ACH1037	Q228	TRANSISTOR	2SC2458
C703,C704	CERAMIC CAPACITOR	CKDYF223Z50	Q301	TRANSISTOR	2SC1845
C705	ELECTR. CAPACITOR	CEJA010M50	Q302	TRANSISTOR	2SA992
C706	CERAMIC CAPACITOR	CKCYF103Z50	Q303	TRANSISTOR	2SC3298
C707	ELECTR. CAPACITOR	CEJA2R2M50	Q304	TRANSISTOR	2SC2705
C708	ELECTR. CAPACITOR	CEJA101M10	Q305-Q307	TRANSISTOR	2SC3298
C709	CERAMIC CAPACITOR	CKCYF473Z50	Q308,Q309	TRANSISTOR	2SA1306
C710,C711	CERAMIC CAPACITOR	CKDYF223Z50	Q310	TRANSISTOR	2SA1145
C712	ELECTR. CAPACITOR	CEJA101M10	Q311,Q312	TRANSISTOR	2SA1306
C713,C714	ELECTR. CAPACITOR	CEJA470M16	D101,D102	DIODE	1SS252
C715	CERAMIC CAPACITOR	CKCYF103Z50	D103,D104	ZENER DIODE	RD12ESB1
C716	ELECTR. CAPACITOR	CEJAR47M50	D105-D113	DIODE	1SS252
C717	ELECTR. CAPACITOR	CEJA221M6	D201-D216	DIODE	1SS252
RESISTORS			D217,D218	ZENER DIODE	RD12ESB3
VR401	VARIABLE	ACS1062	D219-D223	DIODE	1SS252
VR402,VR403	VARIABLE(250Kx2)	ACS1061	D224	ZENER DIODE	RD10ESB2
OTHER RESISTORS		RD1/8PM□□□□	D301-D312	DIODE	S5566
SWITCHES			D313-D316	DIODE	10DF2FD
S701-S717	SWITCH	ASG1029	D317,D318	ZENER DIODE	RD27FB
OTHERS			D319,D320	ZENER DIODE	RD18FB2
X701	CERAMIC RESONATOR REMOTE RECEIVER UNIT	ASS1018 AXX1010	D321,D322	DIODE	1SS252
AF ASS'Y (AWK1301)			CAPACITORS		
SEMICONDUCTORS			C101,C102	PP CAPACITOR(0.01/50V)	ACE1018
IC101	OP-AMP IC	CXA1297P	C103,C104	PP CAPACITOR(68pF)	ACE1024
IC201-IC205	E-SW IC	UPD6362C	C105,C106	PP CAPACITOR(0.01/50V)	ACE1018
IC206-IC209	OP AMP IC	M5238PF	C107,C108	ELECTR. CAPACITOR	CEXANP101M25
IC210	OP AMP IC	CXA1297P	C109,C110	PP CAPACITOR(0.051/50V)	ACE1049
IC211	IC	UPC4570C	C111,C112	PP CAPACITOR(0.015/50V)	ACE1030
IC212	OP AMP IC	M5238PF	C113,C114	ELECTR. CAPACITOR	CEXANP3R3M50
IC301	REGULATOR IC	NJM78M56FA	C116,C117	CERAMIC CAPACITOR	CKDYB103K50
IC302	REGULATOR IC	UPC7812H	C118	ELECTR. CAPACITOR	CEAS100M25
Q101-Q104	N-FET	2SK369	C119	CERAMIC CAPACITOR	CKDYF103Z50
Q105-Q108	TRANSISTOR	2SC1845	C120	ELECTR. CAPACITOR	CEAS101M16
Q109	TRANSISTOR	2SA992	C125,C126	POLYESTER CAPACITOR	CQMXA472J100
Q110	TRANSISTOR	2SC1845	C129	ELECTR. CAPACITOR	CEANP010M50
Q111	TRANSISTOR	DTC143ES	C223,C224	CERAMIC CAPACITOR	CCCSL680K500
Q112	TRANSISTOR	2SC2458	C225,C226	ELECTR. CAPACITOR	CEXA4R7M50
Q113	TRANSISTOR	2SA992	C227,C228	ELECTR. CAPACITOR	CEYA100M50
Q114	TRANSISTOR	2SC1845	C229,C230	ELECTR. CAPACITOR	CEAS101M16
Q115	TRANSISTOR	DTC143ES	C231,C232	ELECTR. CAPACITOR	CEYA100M50
Q116	TRANSISTOR	DTA143ES	C233,C234	ELECTR. CAPACITOR	CEXA4R7M50
Q117	TRANSISTOR	2SA1048	C235,C236	ELECTR. CAPACITOR	CEXA101M25
Q118	TRANSISTOR	2SC2458	C237,C238	ELECTR. CAPACITOR	CEAS010M50
Q119	TRANSISTOR	DTC124ES	C239,C240	AUDIO FILM CAPACITOR	CFTXA823J50
Q120	TRANSISTOR	DTC143ES	C241,C242	ELECTR. CAPACITOR	CEAS100M50
Q201-Q208	TRANSISTOR	2SC2878	C243,C244	ELECTR. CAPACITOR	CEAS101M16
Q209-Q212	TRANSISTOR	DTA143ES	C245,C246	ELECTR. CAPACITOR	CEXA101M25
Q213-Q215	TRANSISTOR	DTC143ES			

Mark. No.	Description	Parts No.	Mark. No.	Description	Parts No.
C247,C248	ELECTR. CAPACITOR	CEYA470M25		SCREW	ABA1027
C249	ELECTR. CAPACITOR	CEAS101M16		PIN JACK(6P)(VCR1-VCR2)	AKB1129
C250	ELECTR. CAPACITOR	CEAS010M50		PIN JACK(4P)(PRE OUT)	AKB1147
C252	CERAMIC CAPACITOR	CKCYB102K50		PIN JACK(6P)(TAPE1/DAT·	AKB1148
C253	CERAMIC CAPACITOR	CKDYF103Z50		TAPE2/MONITOR, LD·	
				TV/AUX-VCR1)	
C267,C268	CERAMIC CAPACITOR	CCCSL330J50		PIN JACK(6P)(CD·TUNER·	AKB1149
C301	ELECTR. CAPACITOR	CEAS222M25		TAPE1/DAT)	
C302	ELECTR. CAPACITOR	CEHAQ010M50			
C303,C304	ELECTR. CAPACITOR	CEAS222M35		PIN JACK(2P)(PHONO)	AKB1151
C305	ELECTR. CAPACITOR	CEAS102M25			
C306	CERAMIC CAPACITOR	CKDYF103Z50			
C307-C310	ELECTR. CAPACITOR	CEYA102M50			
C311,C312	ELECTR. CAPACITOR	CEYA101M25			
C313	ELECTR. CAPACITOR	CEHAQ010M50			
C314	ELECTR. CAPACITOR	CEAS221M16			
C315	ELECTR. CAPACITOR	CEHAQ010M50			
C316	ELECTR. CAPACITOR	CEAS221M16			
C317	ELECTR. CAPACITOR	CEAS100M50			
C318	ELECTR. CAPACITOR	CEAS220M50			
C319-C321	CKA(0.01/AC250V)	ACG1005			
C322	CERAMIC CAPACITOR	CKCYF103Z50			
RESISTORS					
VR201	VARIABLE	ACW1008			
R101-R120	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R121,R122	CARBON FILM RESISTOR	RD1/4PM□□□J			
R123-R130	CARBON FILM RESISTOR	RDR1/2PM□□□J			
R131,R132	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R133,R134	CARBON FILM RESISTOR	RDR1/2PM□□□J			
R155-R158	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R201-R218	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R225,R226	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R229,R230	CARBON FILM RESISTOR	RDR1/6PU□□□J			
R231,R232	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R233,R234	CARBON FILM RESISTOR	RDR1/6PU□□□J			
R235-R242	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R243-R246	CARBON FILM RESISTOR	RDR1/2PM□□□J			
R249,R250	CARBON FILM RESISTOR	RDR1/4PM101J			
R251-R254	CARBON FILM RESISTOR	RDR1/2PM□□□J			
R267,R268	CARBON FILM RESISTOR	RDR1/2PM□□□J			
R269	CARBON FILM RESISTOR	RD1/4PM102J			
R271-R280	CARBON FILM RESISTOR	RDR1/4PM□□□J			
R301,R302	FUSIBLE RESISTOR	RFA1/4PS270J			
R303-R310	CARBON FILM RESISTOR	RDR1/2PM□□□J			
R312	CARBON FILM RESISTOR	RD1/4PM100J			
OTHER RESISTORS		RD1/8PM□□□J			
OTHERS					
CN1-CN3	CONNECTOR(15P)	KPE15			
CN5	CONNECTOR(9P)	KPC9			
CN6	CONNECTOR(5P)	KPC5			
RY101-RY103	RELAY	ASR1018			
RY201-RY205	RELAY	ASR1018			

3.3 REMOTE CONTROL UNIT (AXD1171)

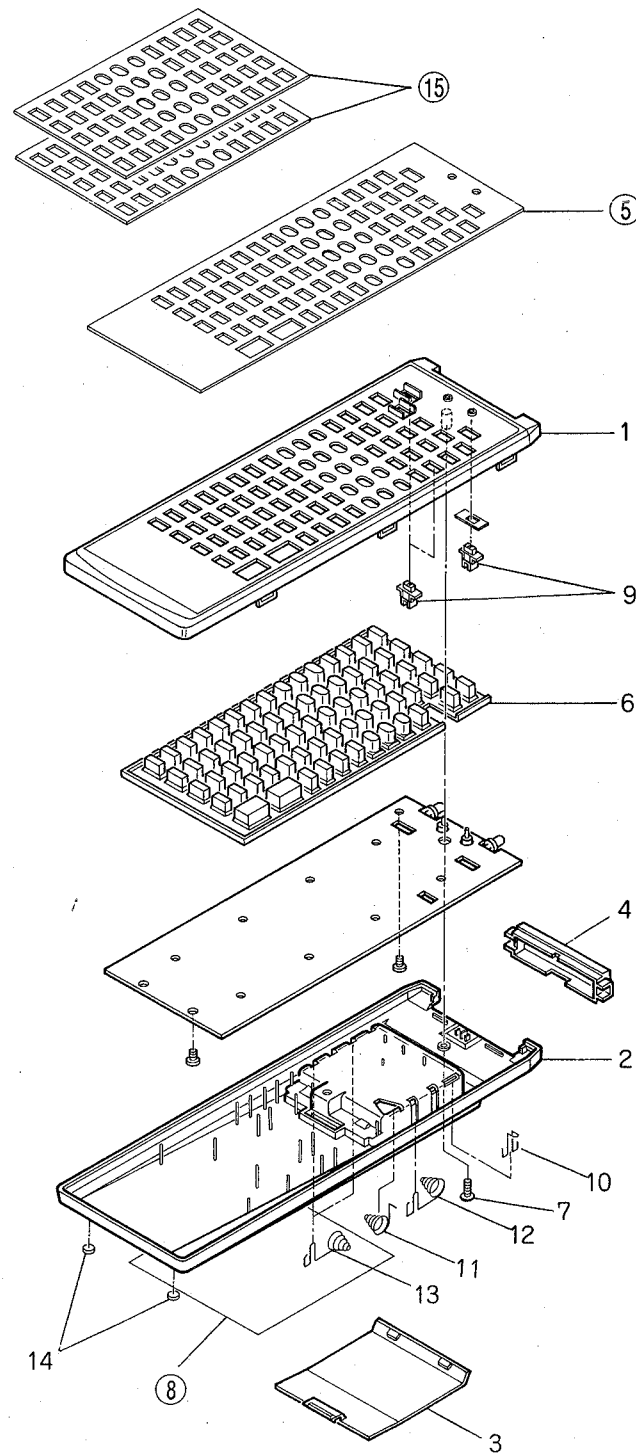
EXPLODED VIEWS AND PARTS LIST

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.	Description	Parts No.
	1	Case (A)	AZH1033
	2	Case (B)	AZH1034
	3	Case (C)	AZH1035
	4	Filter	AZN1400
	5	Name plate	
	6	Rubber sheet	AZA1275
	7	Screw	AZB1124
	8	Label	
	9	Knob	AZS1042
	10	Electrode spring	AZB1274
	11	Electrode spring	AZB1275
	12	Electrode spring	AZB1276
	13	Electrode spring	AZB1277
	14	Leg	AZN1401
	15	Template	



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	5 6 1 J
47kΩ	47 × 10 ³	473.....	RD1/4PS	4 7 3 J
0.5Ω	0R5.....		RN2H	0 5 K
1Ω	010.....		RS1P	0 1 0 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	5 6 2 1 F
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SEMICONDUCTORS

Mark	Symbol & Description	Parts No.
	IC01	PD5149A
	IC02	AZC1045
	IC03	AZC1046
	IC04	AZC1047
	IC05	AZC1048
	Q01, Q02	AZC1050
	Q03, Q04	AZC1051
	Q05	AZC1052
	D01, D02, D07-D15	AZC1233
	D03-D06	AZC1049
	PHD01	AZC1055
	LED01, LED02	AZC1054
	IED01, IED02	AZC1053

RESISTORS

Mark	Symbol & Description	Parts No.
	R01 (32K)	AZC1064
	R02 (4.7K)	AZC1065
	R03, R08 (33K)	AZC1066
	R04 (560K)	AZC1256
	R05, R17 (10K)	AZC1068
	R06 (82K)	AZC1069
	R09 (6.8K)	AZC1070
	R10 (36K)	AZC1071
	R12 (1M)	AZC1072
	R7, R11, R30-R38 (100K)	AZC1073
	R19-R21 (2.2K)	AZC1074
	R13, R16 (680K)	AZC1075
	R15 (10K)	AZC1076
	R18, R22-R29 (47K)	AZC1077
	R14 (3.9Ω)	AZC1078

SWITCHES

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

OTHERS

Mark	Symbol & Description	Parts No.
	X01 Resonator	AZC1057

CAPACITORS

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

SCHEMATIC DIAGRAM

NOTE:

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

1. RESISTORS:

Indicated in Ω, 1/8, 1/4W, ±5% tolerance unless otherwise noted
K; kΩ, M; MΩ, (F); ±1%, (G); ±2%, (K); ±10%, (M); ±20% tolerance.

2. CAPACITORS:

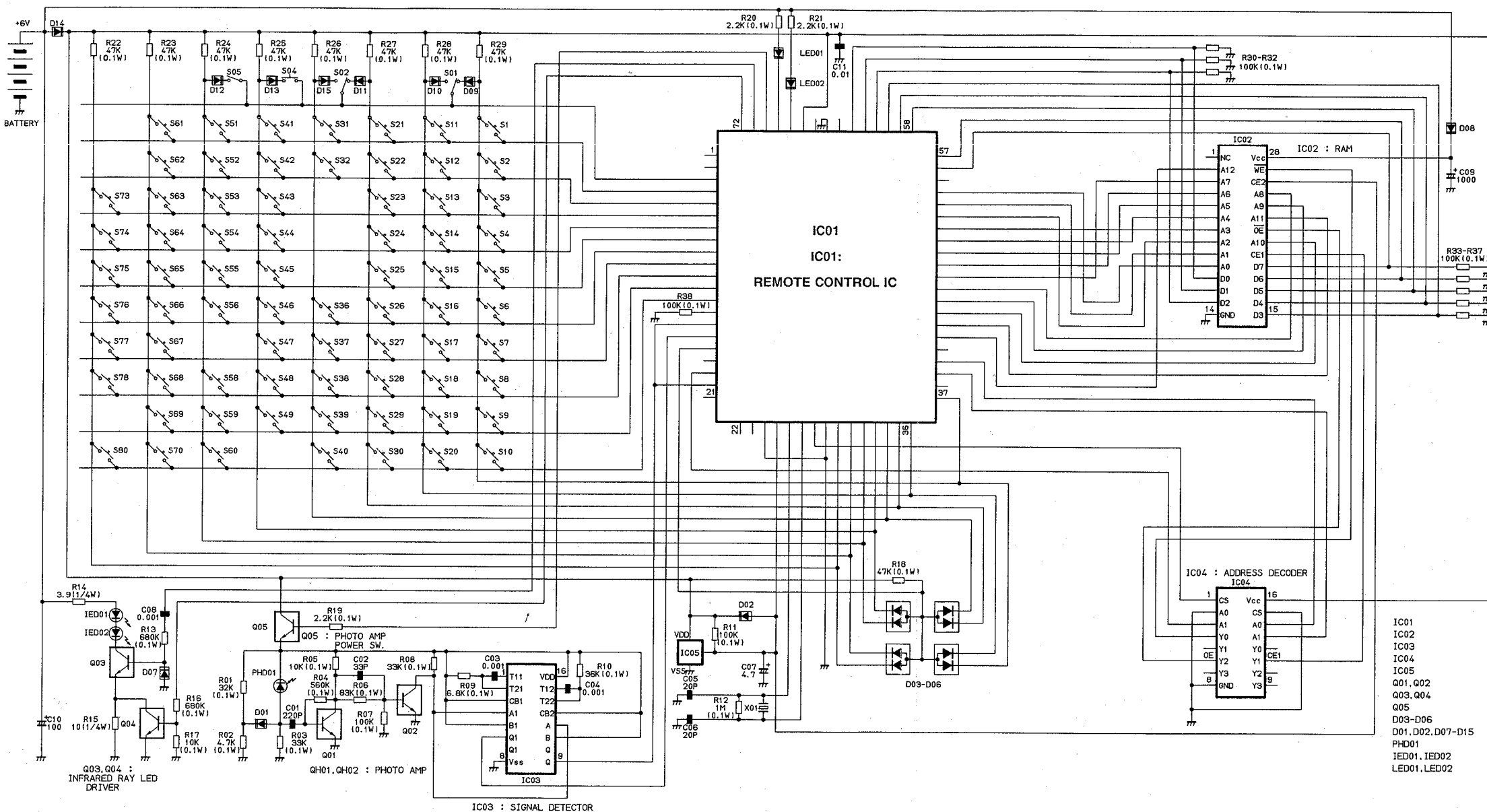
Indicated in capacity (μF) / voltage (V) unless otherwise noted; pF.
Indication without voltage is 50V except electrolytic capacitor.

3. OTHERS

- : Signal route.
- ⊙: Adjusting point.
- △: The 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 capacitor and resistor have parts number.
- : This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

4. SWITCHES (The underline indicates the switch position)

- S01 : AUDIO/VIDEO/AUX
 - S02 : SR RECALL/USE/LEARN
 - S05 : DECK I/DECK II
 - S04 : RESET
- TAPE/VCR
- S-1 : VCR POWER
 - S-2 : TAPE/VCR
 - S-3 : TAPE/VCR
 - S-4 : / VCR CH-
 - S-5 : TAPE SELECT
 - S-6 : / ANT
 - S-7 : / ANT
 - S-8 : / ANT
 - S-9 : / ANT
 - S-10 : / ANT
- CD/LD
- S-11 : / SEARCH
 - S-12 : / SEARCH
 - S-13 : CD/LD POWER
 - S-14 : CHP/FR-TM
 - S-15 : DISC SEL DISPLAY
 - S-16 : / SEARCH
 - S-17 : / SEARCH
 - S-18 : / SEARCH
 - S-19 : / SEARCH
- TUNER/CD/TV/LD
- 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 : LD
 - S-44 : VIDEO
 - S-45 : VCR 2
 - S-46 : VCR 1
 - S-47 : TV
 - S-48 : TAPE 2
 - S-49 : TAPE 1
 - S-51 : TUNER
 - S-52 : PHONO
 - S-53 : DIRECT/TV. SEL
 - S-54 : CENTER MODE
 - S-55 : TV DISP
 - S-56 : DUAL
 - S-58 : REAR BALANCE L
 - S-59 : AMP POWER
 - S-60 : MUTING
 - S-61 : PROC. LEVEL +
 - S-62 : CENTER LEVEL -
 - S-63 : VOL -
 - S-64 : VOL +
 - S-65 : MODE -
 - S-66 : REAR BALANCER
 - S-67 : CENTER LEVEL +
 - S-68 : PROC. ON/OFF
 - S-69 : PROC. LEVEL -
 - S-70 : REAR LEVEL +
 - S-73 : PROC. BALANCE R
 - S-74 : FUNCTION
 - S-75 : TEST TONE
 - S-76 : PROC. BALANCE L
 - S-77 : REAR LEVEL -
 - S-78 : MODE +
 - S-80 : CD



3.4 SPECIFICATIONS

Amplifier Section

Rated output	
20 Hz — 20 kHz, 0.01 % 10 k Ω	7 V
Total harmonic distortion	
20 Hz — 20 kHz, 1 V	0.002 %
Input terminals (sensitivity/impedance)	
PHONO MM	2.5 mV/50 k Ω
PHONO MC	250 μ V/100 Ω
CD, TUNER, TAPE PLAY, AUX	150 mV/50 k Ω
Output terminals (output level/output impedance)	
TAPE REC	150 mV/2.2 k Ω
PRE OUT	1 V/1 k Ω
Frequency response	
PHONO MM 20 Hz — 20 kHz	\pm 0.2 dB
PHONO MC 20 Hz — 20 kHz	\pm 0.3 dB
CD, TUNER, TAPE PLAY, AUX, 1 Hz — 150 kHz	\pm $\frac{1}{3}$ dB
Tone control (Volume control set at —40 dB position)	
BASS	\pm 8 dB, 100 Hz
TREBLE	\pm 8 dB, 10 kHz
Filter	
SUBSONIC	17 Hz, —12 dB/oct
MUTING	— ∞ dB
SN ratio (short-circuit, A network)	
PHONO MM	93 dB (5 mV)
PHONO MC	76 dB (500 μ V)
CD, TUNER, TAPE PLAY, AUX	106 dB

Video section

Video (Base Band)	
Input terminals (Output level/impedance)	
LD, VCR 1, 2, VIDEO, TV/AUX	1 Vp-p/75 Ω unbalanced
Output terminals (Output level/impedance)	
VCR 1, 2, REC MONITOR	1 Vp-p/75 Ω unbalanced
DG	2 %
DP	2°
Frequency response 10 Hz — 10 MHz	\pm $\frac{1}{3}$ dB
Noise level	—60 dB or less

S type terminal

Input terminal (luminance signals sensitivity/impedance, color signals sensitivity/impedance)	
LD, VCR 1, 2, VIDEO, TV/AUX	1 Vp-p/75 Ω unbalanced
	0.286 Vp-p/75 Ω unbalanced
Output terminal (luminance signals output level/impedance, color signals output level/impedance)	
VCR 1, 2, MONITOR	1 Vp-p/75 Ω unbalanced
	0.286 Vp-p/75 Ω unbalanced
Luminance signals frequency characteristic 10 Hz — 10 MHz	
	\pm $\frac{1}{3}$ dB
Noise level (luminance signal)	max. —60 dB

Power section, other

Power requirements	AC 120 V, 60 Hz
Power consumption	30 W
AC outlets	
SWITCHED	TOTAL 900 W MAX
UNSWITCHED	TOTAL 100 W MAX
External dimensions	459 (W) x 417 (D) x 163 (H) mm
	18-1/16 (W) x 16-7/16 (D) x 6-7/16 (H) in
Weight	11.3 kg (24 lb 15 oz)

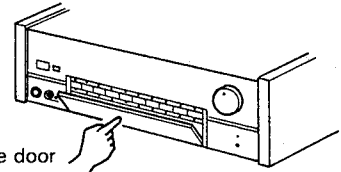
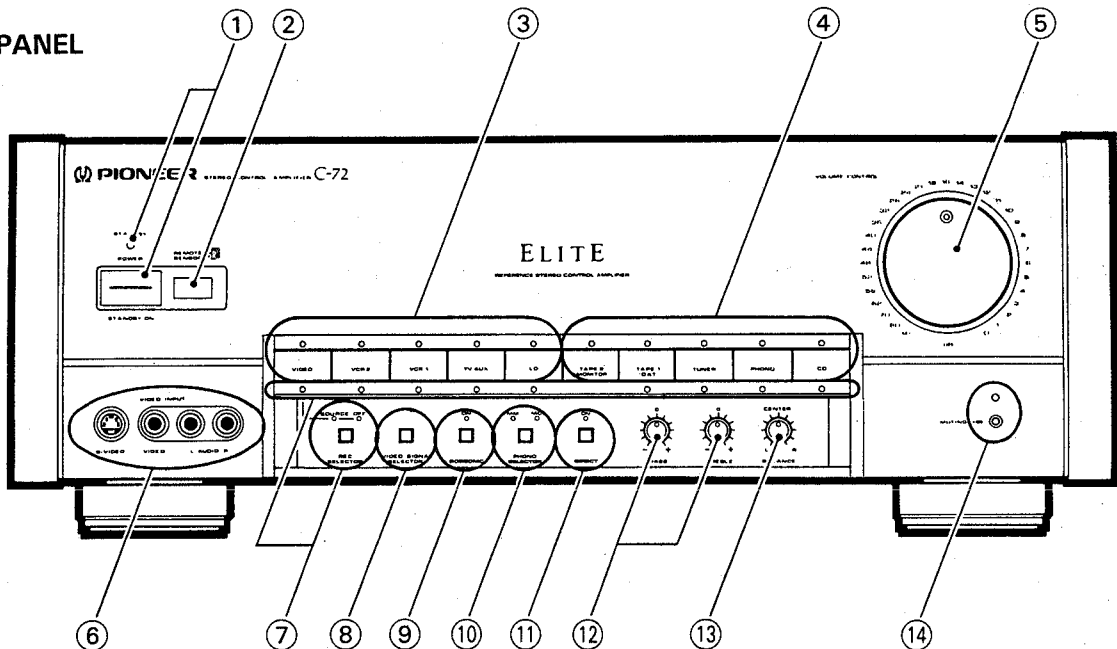
Accessories

Remote control unit	1
Alkaline dry cell batteries (IEC LR03 (AM-4))	4
Templates added	2
Pin-plug cord	1
Cushion spacer	2
Operating Instructions	1

The specifications and design noted above are subject to change without notice, due to improvements.

3.5 PANEL FACILITIES

FRONT PANEL



Press the top part of the door
in the center to open.

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. The STANDBY indicator is off.

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. At this time the STANDBY indicator is on.

② REMOTE SENSOR

③ VIDEO INPUT selector buttons/indicators

Use to select the video component for play back.

[VIDEO]: To play back the video equipment connected to the front panel VIDEO INPUT terminals.

[VCR 2]: To play back the VCR connected to the rear panel VCR 2 terminals.

[VCR 1]: To play back the VCR connected to the rear panel VCR 1 terminals.

[TV/AUX]: To use the TV tuner or a monitor TV connected to the rear panel TV/AUX terminals.

[LD]: To play back the video disc player connected to the rear panel LD terminals.

- The red indicator above the button lights to show the selected video source.
- When selecting with the VIDEO SIGNAL SELECTOR button ⑧, a yellow indicator above the button lights.
- The indicator under the button lights when selection is made with the REC SELECTOR button ⑦.

④ AUDIO INPUT selector buttons/indicators

Use to select the audio component for playback.

[TAPE 2 MONITOR]: To use the cassette deck connected to the rear panel TAPE 2 MONITOR terminals.

[TAPE 1/DAT]: To use the cassette deck connected to the rear panel TAPE 1/DAT terminals.

[TUNER]: For listening to FM/AM broadcasts with a tuner.

[PHONO]: For turntable.

[CD]: For compact disc player.

- The TAPE 2 MONITOR button go ON or OFF alternately each time they are pressed, independently of the other buttons.
- The red indicator above the button lights to show the selected audio source.
- The indicator under the button lights when selection is made with the REC SELECTOR button ⑦.

⑤ VOLUME CONTROL

Use to adjust the sound volume. At the $[-\infty]$ position, sound will not be heard, while at the $[0]$ position, sound volume will be at its maximum.

⑥ VIDEO INPUT terminals

Video components such as a video camera can be connected here.

AUDIO: Connect to the video component's audio output terminals.

VIDEO: Connect to the video component's video output terminal.

S-VIDEO: Connect to the video component's S-VIDEO OUT terminal.

⑦ REC SELECTOR button/indicators

Use to select the playback source component used when performing audio and video recording. The audio and video signals (in the case of an audio component) from the select component will be output from the OUTPUT terminals. When set to SOURCE (indicator lights), the signals selected with the audio or video input selector switch will be output.

① PRE OUTPUT terminals

Connect to the power amplifier or surround processor input terminals.

FIXED: The output level of the signal is fixed, regardless of this unit's VOLUME CONTROL setting.

Connect to a surround processor with volume control capability.

VARIABLE: Adjust the output level of the signal with this unit's VOLUME CONTROL.

When using with a power amplifier, connect to this terminal.

When using in combination with a Pioneer M-72 stereo power amplifier, set the M-72's INPUT LEVEL control to MAX, and adjust volume level with this unit's VOLUME CONTROL.

② S VIDEO terminals

When used in conjunction with VCR 1, VCR 2, LaserDisc player or monitor TV equipped with S video terminals, connect to these terminals.

③ MONITOR OUT terminal

This terminal outputs the video playback picture from the video components connected to this unit. Connect to the video input terminal of a monitor TV or television set.

④ AC OUTLETS

SWITCHED TOTAL 900 W MAX

Power supplied through these outlets is turned on and off by this equipment's POWER switch. Total electrical power consumption of commented equipment should not exceed 900 W.

With a switched AC outlet, you can connect a separately sold M-72 power cord.

UNSWITCHED TOTAL 100 W MAX

Power flows continually to this outlet, regardless of whether this equipment is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

NOTE:

- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk. This can cause the control amplifier to malfunction.

CAUTION: DO NOT CONNECT TV SET OR MONITOR

⑤ Ground (GND) terminal

Connect to the ground terminal of your turntable.

⑥ Audio components terminals

- [PHONO]: Turntable.
- [CD]: Compact disc player.
- [TUNER]: FM/AM Tuner.
- [TAPE 1/DAT]: Cassette deck 1 (first deck) or DAT.
 - PLAY: For playback (connect to the tape deck's PLAY terminals).
 - REC: For recording (connect to the tape deck's REC terminals).
- [TAPE 2 MONITOR]: Cassette deck 2 (second deck).
 - PLAY: For playback. Connect to the cassette deck PLAY terminals.
 - REC: For recording. Connect to the cassette deck REC terminal.

⑦ Video components terminals


Connect to the video and audio terminals of the video components you plan to use.

- [LD]: LaserDisc player.
- [TV]: TV Tuner.
- [VCR 1]: Video cassette recorder 1 (first unit).
 - IN: For input. Connect to the VCR's video and audio output terminals.
 - OUT: For output. Connect to the VCR's video and audio input terminals.
- [VCR 2]: Video cassette recorder 2 (second unit).
 - IN: For input. Connect to the VCR's video and audio output terminals.
 - OUT: For output. Connect to the VCR's video and audio input terminals.

⑧ CONTROL terminals

- IN: Use a control cord to connect when performing remote operations using this unit's remote control unit in conjunction with the remote sensor on the Pioneer component display.
- OUT: The control signal received at the amplifier's signal sensor from the remote control unit is output here to other components. Use a control cord to connect to other components when controlling those components with this remote control unit.

NOTE:

Control connections can be performed only when using Pioneer components bearing the  mark.

⑨ MULTI-ROOM REMOTE IN terminals


Connect the multi-room remote control unit (MR-100; sold separately) to this terminal. You can operate this unit by remote control through the MR-100. It is convenient when this unit is located a separate room.

⑩ Power cord

Connect to a household wall outlet, or the power outlet of an audio timer.










4. FOR C-72/SD TYPE

NOTES:

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

CONTRAST OF MISCELLANEOUS PARTS

The C-72/SD type is the same as the C-72/KU/CA type with the exception of the following sections.

Mark	Symbol & Description	Parts No.		Remarks
		C-72/KU/CA type	C-72/SD type	
	AC POWER CORD	ADG1076	ADG1051	
	FU2 FUSE (T250mA)	-----	AEK-037	
	FU3 FUSE (T250mA)	-----	AEK-037	
	FU4 FUSE (T250mA)	-----	AEK-037	
	FU5 FUSE (T250mA)	-----	AEK-037	
	PACKING CASE	AHD1927	AHD1926	
	S1 VOLTAGE SELECT SWITCH	-----	AKX-507	
	S2 VOLTAGE SELECT SWITCH	-----	AKX-507	
	FRONT PANEL	ANB1414	ANB1412	
	OPERATING INSTRUCTIONS (ENGLISH)	ARB1268	ARB1269	
	T1 POWER TRANSFORMER	ATT1122	ATT1123	
	T2 POWER TRANSFORMER	ATT1126	ATT1127	
	STRAIN RELIEF	-----	AEC-882	
	FRONT PANEL	ANB1414	ANB1412	
	AC CORD SPACER	ANG1153	-----	

5. FOR C-73/HEZ TYPE

5.1 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%).

560 Ω	56 $\times 10^1$	561.....	RD1/4PS	$\text{\textcircled{5}}$	$\text{\textcircled{6}}$	$\text{\textcircled{1}}$	J
47k Ω	47 $\times 10^3$	473.....	RD1/4PS	$\text{\textcircled{4}}$	$\text{\textcircled{7}}$	$\text{\textcircled{3}}$	J
0.5 Ω	0R5.....		RN2H	$\text{\textcircled{0}}$	$\text{\textcircled{5}}$	$\text{\textcircled{0}}$	K
1 Ω	010.....		RSIP	$\text{\textcircled{0}}$	$\text{\textcircled{1}}$	$\text{\textcircled{0}}$	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	$\text{\textcircled{5}}$	$\text{\textcircled{6}}$	$\text{\textcircled{2}}$	$\text{\textcircled{1}}$	F
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Mark. No.	Description	Parts No.	Mark. No.	Description	Parts No.
VOLUME DRIVE ASS'Y			Q720	TRANSISTOR	DTC143ES
OTHERS			Q721-Q724	TRANSISTOR	DTA143ES
VR901	GEAR BOX	ACX1046	Q725-Q727	TRANSISTOR	DTA124ES
POWER ASS'Y			D702-D706	LED(RED)	AEL1099
SEMICONDUCTORS			D708-D722	LED(RED)	AEL1099
Q801	TRANSISTOR	DTC143ES	D724-D728	LED(RED)	AEL1099
D804	DIODE	1SS252	D729	LED(RED,AMBER)	AEL1115
CAPACITORS			D730,D731	DIODE	1SS252
Δ C351,C352	CKA (0.01/AC400V)	ACG1002	D734-D743	DIODE	1SS252
OTHER			D745	DIODE	1SS252
Δ RY351	RELAY	ASR1027	D750	DIODE	1SS252
FRONT INPUT ASS'Y			D752-D757	DIODE	1SS252
CAPACITORS			CAPACITORS		
C451,C452	CERAMIC CAPACITOR	CCDSL181J50	C401,C402	AUDIO FILM CAPACITOR	CFTXA153J50
C453	CERAMIC CAPACITOR	CKDYF103Z50	C403,C404	AUDIO FILM CAPACITOR	CFTXA823J50
RESISTORS			C405,C406	MYLOR FILM CAPACITOR	CQMA332J50
R451,R452	CARBON FILM RESISTOR	RD1/8PM470J	C701	CERAMIC CAPACITOR	CKCYF103Z50
OTHER			C702	CEA(47000/5.5V)	ACH1037
	PIN JACK(1P)(LINE5 INPUT)	AKB1082	C703,C704	CERAMIC CAPACITOR	CKDYF223Z50
CONTROL ASS'Y (AWZ2899)			C705	ELECTR. CAPACITOR	CEJA010M50
SEMICONDUCTORS			C706	CERAMIC CAPACITOR	CKCYF103Z50
IC701	AMP CONTROL MICOM	PD5139A	C707	ELECTR. CAPACITOR	CEJA2R2M50
IC702,IC703	OUTPUT EXPANDER IC	PD0012A	C708	ELECTR. CAPACITOR	CEJA101M10
Q703,Q704	TRANSISTOR	DTA124ES	C709	CERAMIC CAPACITOR	CKCYF473Z50
Q710	TRANSISTOR	2SA1048	C710,C711	CERAMIC CAPACITOR	CKDYF223Z50
Q712,Q713	TRANSISTOR	DTC124ES	C716	ELECTR. CAPACITOR	CEJAR47M50
Q714	TRANSISTOR	DTA143ES	C717	ELECTR. CAPACITOR	CEJA221M6
Q715	TRANSISTOR	DTA124ES	COILS & FILTERS		
Q716	TRANSISTOR	DTC124ES	L701	AXIAL INDUCTOR	LAU220K
Q718	TRANSISTOR	DTC124ES	RESISTORS		
Q719	TRANSISTOR	DTA143ES	VR401	VARIABLE	ACS1062
			VR402,VR403	VARIABLE(250K)	ACS1061
			OTHER RESISTORS		
			RD1/8PM		
			SWITCHES		
			S701-S715	SWITCH	ASG1029
			S717	SWITCH	ASG1029

Mark. No.	Description	Parts No.	Mark. No.	Description	Parts No.
OTHERS					
X701	CERAMIC RESONATOR	ASS1018	D313-D316	DIODE	10DF2FD
			D317,D318	ZENER DIODE	RD27FB
			D319,D320	ZENER DIODE	RD18FB2
			D321,D322	DIODE	1SS252
AF ASS'Y (AWK1302)					
SEMICONDUCTORS			CAPACITORS		
IC101	OP AMP IC	CXA1297P	C101,C102	PP CAPACITOR(0.01/50V)	ACE1018
IC201-IC205	E-SW IC	UPD6362C	C103,C104	CERAMIC CAPACITOR	CCDSL181J50
IC206	OP AMP IC	M5238PF	C105,C106	PP CAPACITOR(0.01/50V)	ACE1018
IC208,IC209	OP AMP IC	M5238PF	C107,C108	ELECTR. CAPACITOR	CEXANP101M25
IC210	OP AMP IC	CXA1297P	C109,C110	PP CAPACITOR(0.051/50V)	ACE1049
IC211	IC	UPC4570C	C111,C112	PP CAPACITOR(0.015/50V)	ACE1030
IC212	OP AMP IC	M5238PF	C113,C114	ELECTR. CAPACITOR	CEXANP3R3M50
IC301	REGULATOR IC	NJM78M56FA	C115	CERAMIC CAPACITOR	CKDYF103Z50
IC302	REGULATOR IC	UPC7812H	C116,C117	CERAMIC CAPACITOR	CKDYB103K50
Q101-Q104	N-FET	2SK369	C118	ELECTR. CAPACITOR	CEAS100M25
Q105-Q108	TRANSISTOR	2SC1845	C119	CERAMIC CAPACITOR	CKDYF103Z50
Q109	TRANSISTOR	2SA992	C120	ELECTR. CAPACITOR	CEAS101M16
Q110	TRANSISTOR	2SC1845	C121,C122	CERAMIC CAPACITOR	CKDYF103Z50
Q111	TRANSISTOR	DTC143ES	C123,C124	CERAMIC CAPACITOR	CCDSL121J50
Q112	TRANSISTOR	2SC2458	C125,C126	POLYESTER CAPACITOR	QOMXA472J100
Q113	TRANSISTOR	2SA992	C127,C128	CERAMIC CAPACITOR	CCDCH330J50
Q114	TRANSISTOR	2SC1845	C129	ELECTR. CAPACITOR	CEANP010M50
Q115	TRANSISTOR	DTC143ES	C201-C204	CERAMIC CAPACITOR	CCDSL181K500
Q116	TRANSISTOR	DTA143ES	C205,C206	CERAMIC CAPACITOR	CCDSL271K500
Q117	TRANSISTOR	2SA1048	C207,C208	CERAMIC CAPACITOR	CCDSL181K500
Q118	TRANSISTOR	2SC2458	C209,C210	CERAMIC CAPACITOR	CCDSL101K500
Q119	TRANSISTOR	DTC124ES	C211-C220	CERAMIC CAPACITOR	CCDSL181K500
Q120	TRANSISTOR	DTC143ES	C221,C222	CERAMIC CAPACITOR	CCDSL271K500
Q201,Q202	TRANSISTOR	2SC2878	C223,C224	CERAMIC CAPACITOR	CCCSL680K500
Q209	TRANSISTOR	DTA143ES	C225,C226	ELECTR. CAPACITOR	CXA4R7M50
Q213-Q215	TRANSISTOR	DTC143ES	C227,C228	ELECTR. CAPACITOR	CEAS100M25
Q216	TRANSISTOR	DTA143ES	C229,C230	ELECTR. CAPACITOR	CEAS101M16
Q221	TRANSISTOR	DTA143ES	C233,C234	ELECTR. CAPACITOR	CXA4R7M50
Q222	TRANSISTOR	2SA1048	C235,C236	ELECTR. CAPACITOR	CEXA101M25
Q225	TRANSISTOR	DTC143ES	C237,C238	ELECTR. CAPACITOR	CEAS010M50
Q226	TRANSISTOR	2SC2458	C239,C240	AUDIO FILM CAPACITOR	CFTXA823J50
Q227	TRANSISTOR	DTA143ES	C241,C242	ELECTR. CAPACITOR	CEAS100M50
Q228	TRANSISTOR	2SC2458	C243,C244	ELECTR. CAPACITOR	CEAS101M16
Q301	TRANSISTOR	2SC1845	C245,C246	ELECTR. CAPACITOR	CEXA101M25
Q302	TRANSISTOR	2SA992	C247,C248	ELECTR. CAPACITOR	CEYA470M25
Q303,Q304	TRANSISTOR	2SC2705	C249	ELECTR. CAPACITOR	CEAS101M16
Q305-Q307	TRANSISTOR	2SC3298	C250	ELECTR. CAPACITOR	CEAS010M50
Q308	TRANSISTOR	2SA1145	C251,C252	CERAMIC CAPACITOR	CKCYF103Z50
Q309	TRANSISTOR	2SA1306	C253	CERAMIC CAPACITOR	CKDYF103Z50
Q310	TRANSISTOR	2SA1145	C255,C256	CERAMIC CAPACITOR	CCDSL330J50
Q311,Q312	TRANSISTOR	2SA1306	C257,C258	CERAMIC CAPACITOR	CCDSL151J50
D101,D102	DIODE	1SS252	C259-C262	CERAMIC CAPACITOR	CCDSL101J50
D103,D104	ZENER DIODE	RD12ESB1	C265,C266	CERAMIC CAPACITOR	CCCSL151J50
D105-D113	DIODE	1SS252	C267,C268	CERAMIC CAPACITOR	CCCSL330J50
D201-C203	DIODE	1SS252	C301	ELECTR. CAPACITOR	CEAS222M25
D208-D216	DIODE	1SS252	C302	ELECTR. CAPACITOR	CEHAQ010M50
D217,D218	ZENER DIODE	RD12ESB3	C305	ELECTR. CAPACITOR	CEAS102M25
D219-D223	DIODE	1SS252	C306	CERAMIC CAPACITOR	CKDYF103Z50
D224	ZENER DIODE	RD10ESB2	C307-C310	ELECTR. CAPACITOR	CEYA102M50
D301-D308	DIODE	S5566	C311,C312	ELECTR. CAPACITOR	CEYA101M25

5. FOR C-73/HEZ TYPE

5.1 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%).

560 Ω	56 $\times 10^1$	561.....	RD1/4PS	\square \square J
47k Ω	47 $\times 10^3$	473.....	RD1/4PS	\square \square J
0.5 Ω	0R5.....		RN2H	\square \square K
1 Ω	010.....		RS1P	\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.	Mark. No.	Description	Parts No.
VOLUME DRIVE ASS'Y					
OTHERS					
VR901	GEAR BOX	ACX1046			
POWER ASS'Y					
SEMICONDUCTORS					
Q801	TRANSISTOR	DTC143ES	Q720	TRANSISTOR	DTC143ES
D804	DIODE	1SS252	Q721-Q724	TRANSISTOR	DTA143ES
CAPACITORS					
Δ C351,C352	CKA (0.01/AC400V)	ACG1002	Q725-Q727	TRANSISTOR	DTA124ES
OTHER					
Δ RY351	RELAY	ASR1027	D702-D706	LED(REDF)	AEL1099
FRONT INPUT ASS'Y					
CAPACITORS					
C451,C452	CERAMIC CAPACITOR	CCDSL181J50	D708-D722	LED(REDF)	AEL1099
C453	CERAMIC CAPACITOR	CKDYF103Z50	D724-D728	LED(REDF)	AEL1099
RESISTORS					
R451,R452	CARBON FILM RESISTOR	RD1/8PM470J	D729	LED(REDF,AMBER)	AEL1115
OTHER					
	PIN JACK(1P)(LINE5 INPUT)	AKB1082	D730,D731	DIODE	1SS252
CONTROL ASS'Y (AWZ2899)					
SEMICONDUCTORS					
IC701	AMP CONTROL MICOM	PD5139A	D734-D743	DIODE	1SS252
IC702,IC703	OUTPUT EXPANDER IC	PD0012A	D745	DIODE	1SS252
Q703,Q704	TRANSISTOR	DTA124ES	D750	DIODE	1SS252
Q710	TRANSISTOR	2SA1048	D752-D757	DIODE	1SS252
Q712,Q713	TRANSISTOR	DTC124ES	CAPACITORS		
Q714	TRANSISTOR	DTA143ES	C401,C402	AUDIO FILM CAPACITOR	CFTXA153J50
Q715	TRANSISTOR	DTA124ES	C403,C404	AUDIO FILM CAPACITOR	CFTXA823J50
Q716	TRANSISTOR	DTC124ES	C405,C406	MYLOR FILM CAPACITOR	CQMA332J50
Q718	TRANSISTOR	DTC124ES	C701	CERAMIC CAPACITOR	CKCYF103Z50
Q719	TRANSISTOR	DTA143ES	C702	CEA(47000/5.5V)	ACH1037
COILS & FILTERS					
	L701	AXIAL INDUCTOR	C703,C704	CERAMIC CAPACITOR	CKDYF223Z50
RESISTORS					
	VR401	VARIABLE	C705	ELECTR. CAPACITOR	CEJA010M50
	VR402,VR403	VARIABLE(250K)	C706	CERAMIC CAPACITOR	CKCYF103Z50
	OTHER RESISTORS		C707	ELECTR. CAPACITOR	CEJA2R2M50
SWITCHES					
	S701-S715	SWITCH	C708	ELECTR. CAPACITOR	CEJA101M10
	S717	SWITCH	C709	CERAMIC CAPACITOR	CKCYF473Z50
			C710,C711	CERAMIC CAPACITOR	CKDYF223Z50
			C716	ELECTR. CAPACITOR	CEJAR47M50
			C717	ELECTR. CAPACITOR	CEJA221M6

Mark. No.	Description	Parts No.	Mark. No.	Description	Parts No.
OTHERS					
X701	CERAMIC RESONATOR	ASS1018	D313-D316	DIODE	10DF2FD
AF ASS'Y (AWK1302)					
SEMICONDUCTORS					
IC101	OP AMP IC	CXA1297P	D317,D318	ZENER DIODE	RD27FB
IC201-IC205	E-SW IC	UPD6362C	D319,D320	ZENER DIODE	RD18FB2
IC206	OP AMP IC	M5238PF	D321,D322	DIODE	1SS252
IC208,IC209	OP AMP IC	M5238PF	CAPACITORS		
IC210	OP AMP IC	CXA1297P	C101,C102	PP CAPACITOR(0.01/50V)	ACE1018
IC211	IC	UPC4570C	C103,C104	CERAMIC CAPACITOR	CCDSL181J50
IC212	OP AMP IC	M5238PF	C105,C106	PP CAPACITOR(0.01/50V)	ACE1018
IC301	REGULATOR IC	NJM78M56FA	C107,C108	ELECTR. CAPACITOR	CEXANP101M25
IC302	REGULATOR IC	UPC7812H	C109,C110	PP CAPACITOR(0.051/50V)	ACE1049
Q101-Q104	N-FET	2SK369	C111,C112	PP CAPACITOR(0.015/50V)	ACE1030
Q105-Q108	TRANSISTOR	2SC1845	C113,C114	ELECTR. CAPACITOR	CEXANP3R3M50
Q109	TRANSISTOR	2SA992	C115	CERAMIC CAPACITOR	CKDYF103Z50
Q110	TRANSISTOR	2SC1845	C116,C117	CERAMIC CAPACITOR	CKDYB103K50
Q111	TRANSISTOR	DTC143ES	C118	ELECTR. CAPACITOR	CEAS100M25
Q112	TRANSISTOR	2SC2458	C119	CERAMIC CAPACITOR	CKDYF103Z50
Q113	TRANSISTOR	2SA992	C120	ELECTR. CAPACITOR	CEAS101M16
Q114	TRANSISTOR	2SC1845	C121,C122	CERAMIC CAPACITOR	CKDYF103Z50
Q115	TRANSISTOR	DTC143ES	C123,C124	CERAMIC CAPACITOR	CCDSL121J50
Q116	TRANSISTOR	DTA143ES	C125,C126	POLYESTER CAPACITOR	CQMXA472J100
Q117	TRANSISTOR	2SA1048	C127,C128	CERAMIC CAPACITOR	CCDCH330J50
Q118	TRANSISTOR	2SC2458	C129	ELECTR. CAPACITOR	CEANP010M50
Q119	TRANSISTOR	DTC124ES	C201-C204	CERAMIC CAPACITOR	CCDSL181K500
Q120	TRANSISTOR	DTC143ES	C205,C206	CERAMIC CAPACITOR	CCDSL271K500
Q201,Q202	TRANSISTOR	2SC2878	C207,C208	CERAMIC CAPACITOR	CCDSL181K500
Q209	TRANSISTOR	DTA143ES	C209,C210	CERAMIC CAPACITOR	CCDSL101K500
Q213-Q215	TRANSISTOR	DTC143ES	C211-C220	CERAMIC CAPACITOR	CCDSL181K500
Q216	TRANSISTOR	DTA143ES	C221,C222	CERAMIC CAPACITOR	CCDSL271K500
Q221	TRANSISTOR	DTA143ES	C223,C224	CERAMIC CAPACITOR	CCCSL680K500
Q222	TRANSISTOR	2SA1048	C225,C226	ELECTR. CAPACITOR	CEXA4R7M50
Q225	TRANSISTOR	DTC143ES	C227,C228	ELECTR. CAPACITOR	CEAS100M25
Q226	TRANSISTOR	2SC2458	C229,C230	ELECTR. CAPACITOR	CEAS101M16
Q227	TRANSISTOR	DTA143ES	C233,C234	ELECTR. CAPACITOR	CEXA4R7M50
Q228	TRANSISTOR	2SC2458	C235,C236	ELECTR. CAPACITOR	CEXA101M25
Q301	TRANSISTOR	2SC1845	C237,C238	ELECTR. CAPACITOR	CEAS101M50
Q302	TRANSISTOR	2SA992	C239,C240	AUDIO FILM CAPACITOR	CFTXA823J50
Q303,Q304	TRANSISTOR	2SC2705	C241,C242	ELECTR. CAPACITOR	CEAS100M50
Q305-Q307	TRANSISTOR	2SC3298	C243,C244	ELECTR. CAPACITOR	CEAS101M16
Q308	TRANSISTOR	2SA1145	C245,C246	ELECTR. CAPACITOR	CEXA101M25
Q309	TRANSISTOR	2SA1306	C247,C248	ELECTR. CAPACITOR	CEYA470M25
Q310	TRANSISTOR	2SA1145	C249	ELECTR. CAPACITOR	CEAS101M16
Q311,Q312	TRANSISTOR	2SA1306	C250	ELECTR. CAPACITOR	CEAS101M50
D101,D102	DIODE	1SS252	C251,C252	CERAMIC CAPACITOR	CKCYF103Z50
D103,D104	ZENER DIODE	RD12ESB1	C253	CERAMIC CAPACITOR	CKDYF103Z50
D105-D113	DIODE	1SS252	C255,C256	CERAMIC CAPACITOR	CCDSL330J50
D201-C203	DIODE	1SS252	C257,C258	CERAMIC CAPACITOR	CCDSL151J50
D208-D216	DIODE	1SS252	C259-C262	CERAMIC CAPACITOR	CCDSL101J50
D217,D218	ZENER DIODE	RD12ESB3	C265,C266	CERAMIC CAPACITOR	CCCSL151J50
D219-D223	DIODE	1SS252	C267,C268	CERAMIC CAPACITOR	CCCSL330J50
D224	ZENER DIODE	RD10ESB2	C301	ELECTR. CAPACITOR	CEAS222M25
D301-D308	DIODE	S5566	C302	ELECTR. CAPACITOR	GEHAQ010M50
			C305	ELECTR. CAPACITOR	CEAS102M50
			C306	CERAMIC CAPACITOR	CKDYF103Z50
			C307-C310	ELECTR. CAPACITOR	CEYA102M50
			C311,C312	ELECTR. CAPACITOR	CEYA101M25

Parts No.	Mark. No.	Description	Parts No.
10DF2FD	C313	ELECTR. CAPACITOR	CEHAQ010M50
RD27FB	C314	ELECTR. CAPACITOR	CEAS221M16
RD18FB2	C315	ELECTR. CAPACITOR	CEHAQ010M50
1SS252	C316	ELECTR. CAPACITOR	CEAS221M16
	C317	ELECTR. CAPACITOR	CEAS100M50
0V)	C318	ELECTR. CAPACITOR	CEAS220M50
1	C319-C321	CKA(0.01/AC250V)	ACG1005
0V)	C322,C324	CERAMIC CAPACITOR	CKCYF103Z50
CEXANP101M25	C323	CERAMIC CAPACITOR	CKCYF473Z50
50V)			
50V)			
ACE1030	L101,L102	COIL	ATH1010
CEXANP3R3M50			
CKDYF103Z50			
CKDYB103K50			
CEAS100M25			
CKDYF103Z50			
CEAS101M16			
CKDYF103Z50			
CCDSL121J50			
OR			
CQMXA472J100			
CCDCH330J50			
CEANP010M50			
CCDSL181K500			
CCDSL271K500			
CCDSL181K500			
CCDSL101K500			
CCDSL181K500			
CCDSL271K500			
CCCSL680K500			
CEXA4R7M50			
CEAS100M25			
CEAS101M16			
CEXA4R7M50			
CEXA101M25			
CEAS010M50			
OR			
CFTXA823J50			
CEAS100M50			
CEAS101M16			
CEXA101M25			
CEYA470M25			
CEAS101M16			
CEAS010M50			
CKCYF103Z50			
CKDYF103Z50			
CCDSL330J50			
CCDSL151J50			
CCDSL101J50			
CCCSL151J50			
CCCSL330J50			
CEAS222M25			
CEHAQ010M50			
CEAS102M25			
CKDYF103Z50			
CEYA102M50			
CEYA101M25			

COILS & FILTERS

RESISTORS

OTHERS

Mark. No.	Description	Parts No.
C313	ELECTR. CAPACITOR	CEHAQ010M50
C314	ELECTR. CAPACITOR	CEAS221M16
C315	ELECTR. CAPACITOR	CEHAQ010M50
C316	ELECTR. CAPACITOR	CEAS221M16
C317	ELECTR. CAPACITOR	CEAS100M50
C318	ELECTR. CAPACITOR	CEAS220M50
C319-C321	CKA(0.01/AC250V)	ACG1005
C322,C324	CERAMIC CAPACITOR	CKCYF103Z50
C323	CERAMIC CAPACITOR	CKCYF473Z50

COILS & FILTERS

L101,L102	COIL	ATH1010
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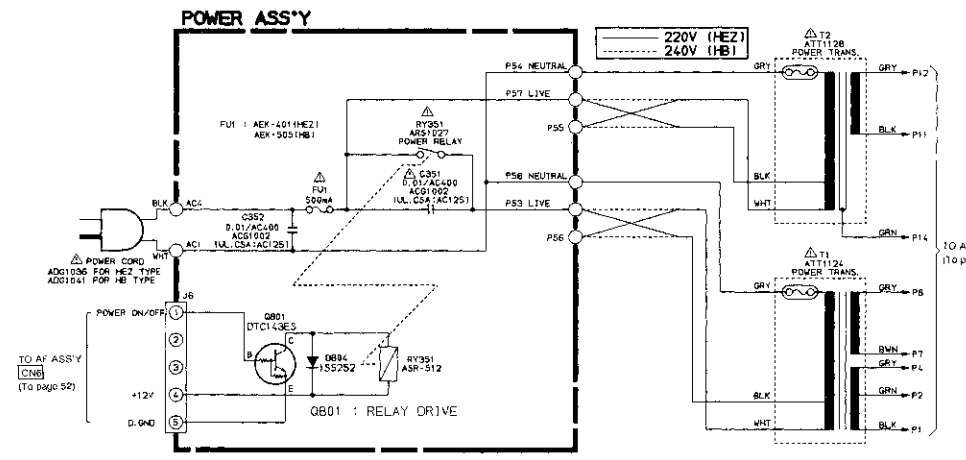
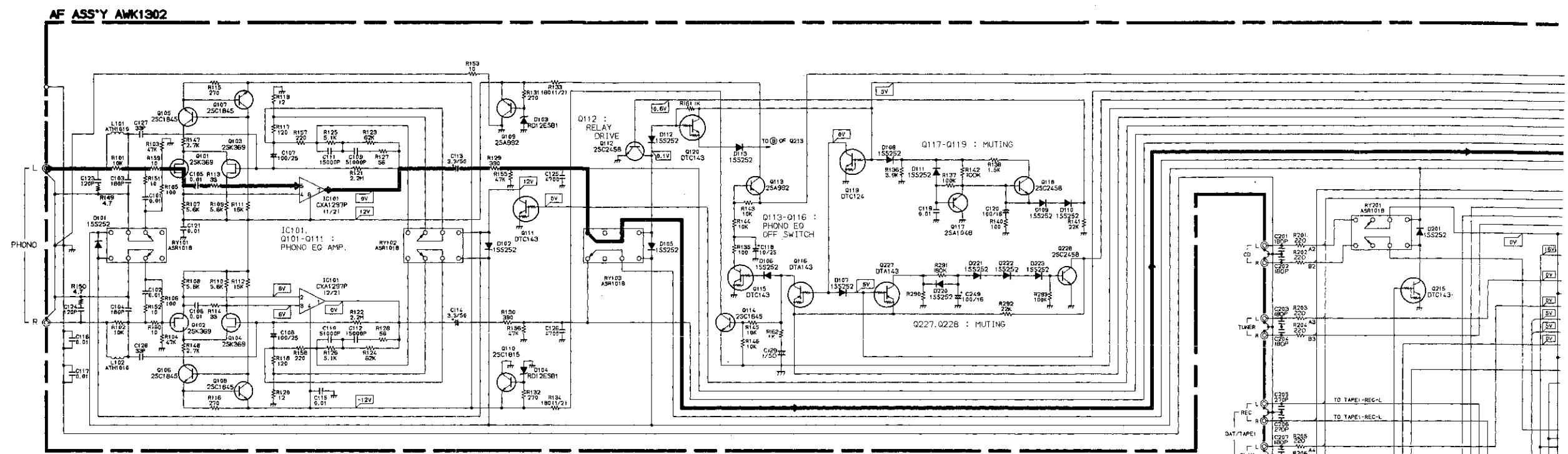
RESISTORS

VR201	VARIABLE	ACW1008
R103-R120	CARBON FILM RESISTOR	RDR1/4PM□□□J
R121,R122	CARBON FILM RESISTOR	RD1/4PM□□□J
R123-R132	CARBON FILM RESISTOR	RDR1/4PM□□□J
R133,R134	CARBON FILM RESISTOR	RDR1/2PM□□□J
R153	CARBON FILM RESISTOR	RD1/4PM100J
R155-R160	CARBON FILM RESISTOR	RDR1/4PM□□□J
R201,R202	CARBON FILM RESISTOR	RDR1/4PM□□□J
R203-R218	CARBON FILM RESISTOR	RD1/4PM□□□J
R225,R226	CARBON FILM RESISTOR	RD1/4PM□□□J
R231,R232	CARBON FILM RESISTOR	RDR1/4PM□□□J
R235,R236	CARBON FILM RESISTOR	RD1/4PM□□□J
R237,R238	CARBON FILM RESISTOR	RDR1/4PM□□□J
R239,R240	CARBON FILM RESISTOR	RD1/4PM□□□J
R241-R248	CARBON FILM RESISTOR	RDR1/4PM□□□J
R249,R250	CARBON FILM RESISTOR	RDR1/4PM101J
R251-R254	CARBON FILM RESISTOR	RDR1/4PM□□□J
R267,R268	CARBON FILM RESISTOR	RDR1/2PM□□□J
R269	CARBON FILM RESISTOR	RD1/4PM102J
R271-R280	CARBON FILM RESISTOR	RD1/4PM□□□J
R294	CARBON FILM RESISTOR	RD1/4PM100J
R301,R302	FUSIBLE RESISTOR	RFA1/4PS270J
R303-R310	CARBON FILM RESISTOR	RDR1/2PM□□□J
R312	CARBON FILM RESISTOR	RD1/4PM100J
OTHER RESISTORS		RD1/8PM□□□J

OTHERS

CN1-CN3	CONNECTOR(15P)	KPE15
CN5	CONNECTOR(9P)	KPC9
CN6	CONNECTOR(5P)	KPC5
RY101-RY103	RELAY	ASR1018
RY201-RY205	RELAY	ASR1018
	SCREW	ABA1027
	PIN JACK(4P)(LINE1·LINE2)	AKB1124
	PIN JACK(6P)(CD·TUNER·TAPE1/DAT)	AKB1129
	PIN JACK(2P)(LINE3·LINE4)	AKB1146
	PIN JACK(6P)(TAPE2 MONITOR)	AKB1148
	PIN JACK(2P)(OUTPUT, PHONO)	AKB1151

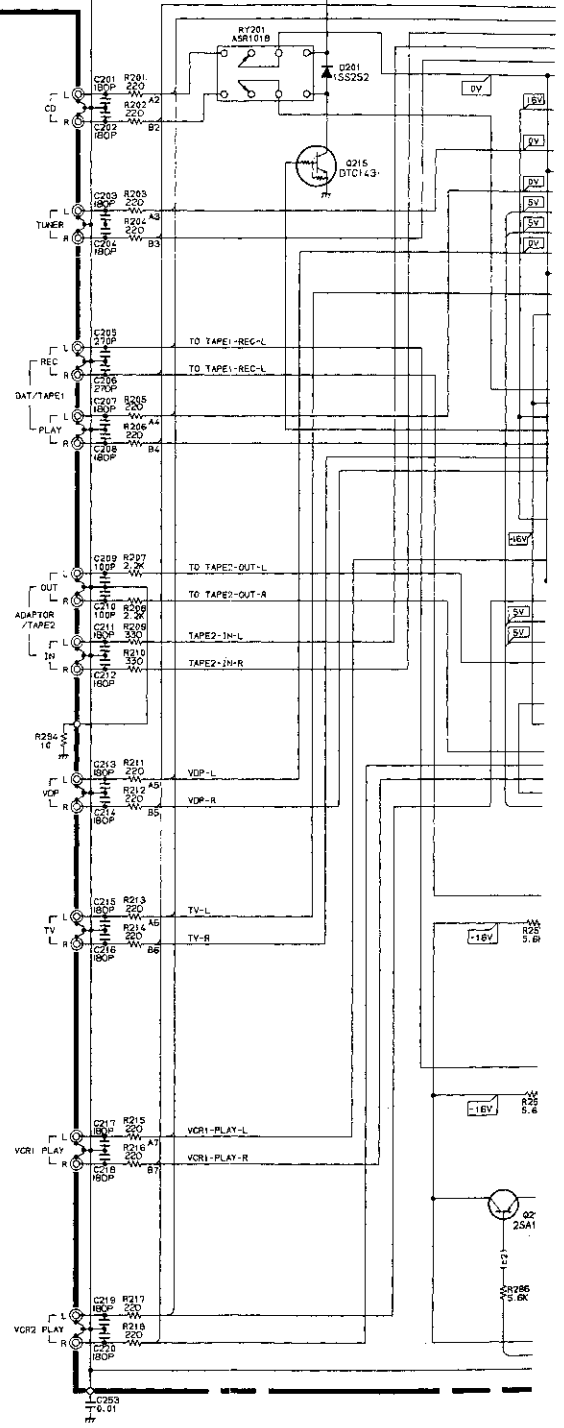
SCHEMATIC DIAGRAM AND P.C. BOARDS CONNECTION DIAGRAM



Line Voltage Selection (For HEZ and HB types)

- Line voltage can be changed with following steps.
1. Disconnect the AC power cord.
 2. Remove the top cover.
 3. Change the connection of the power transformers T1 and T2 lead wire.
 4. Stick the line voltage label on the rear panel.

Part No.	Description
AAX-193	220V label
AAX-192	240V label



POWER ASS'Y

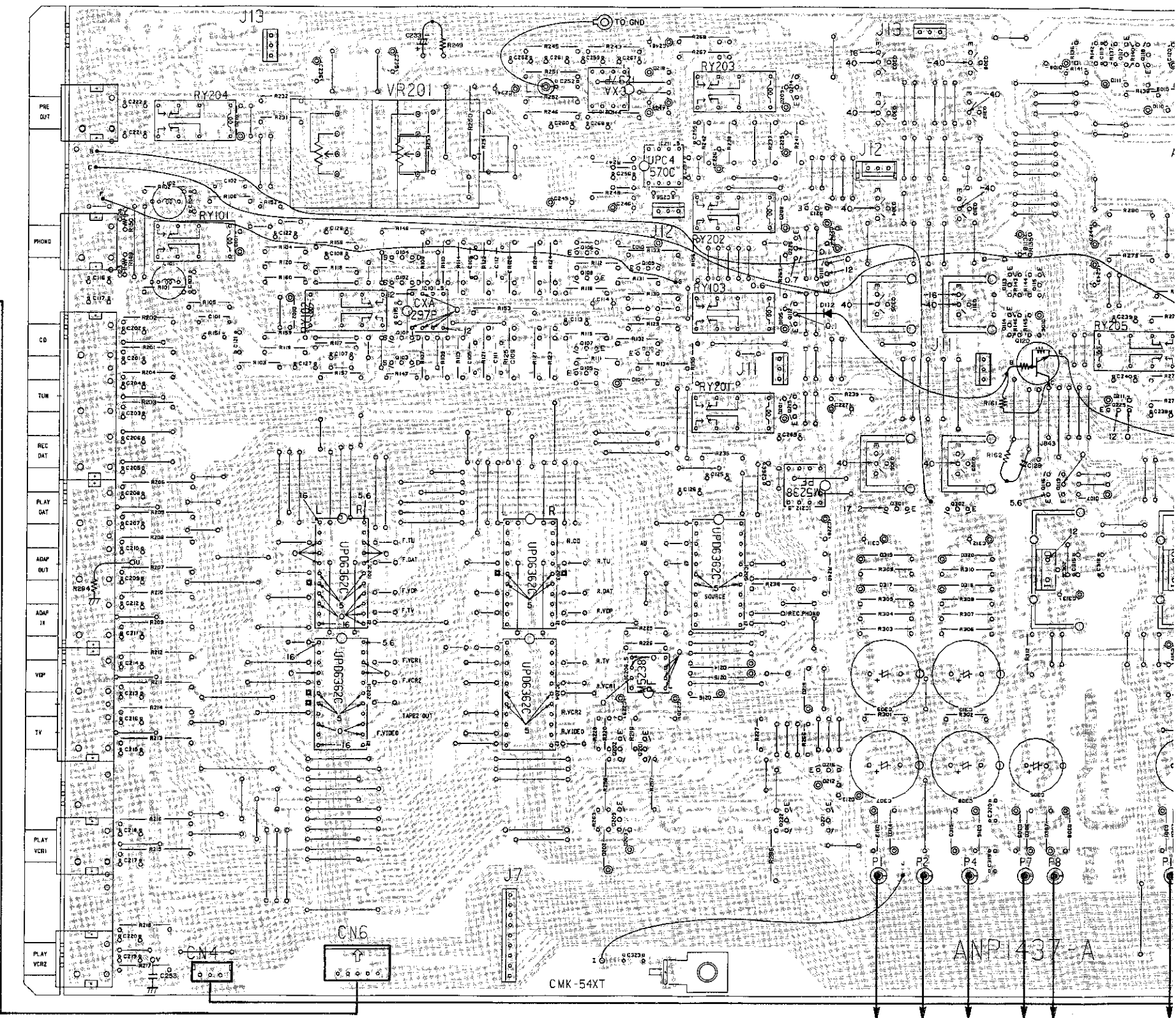
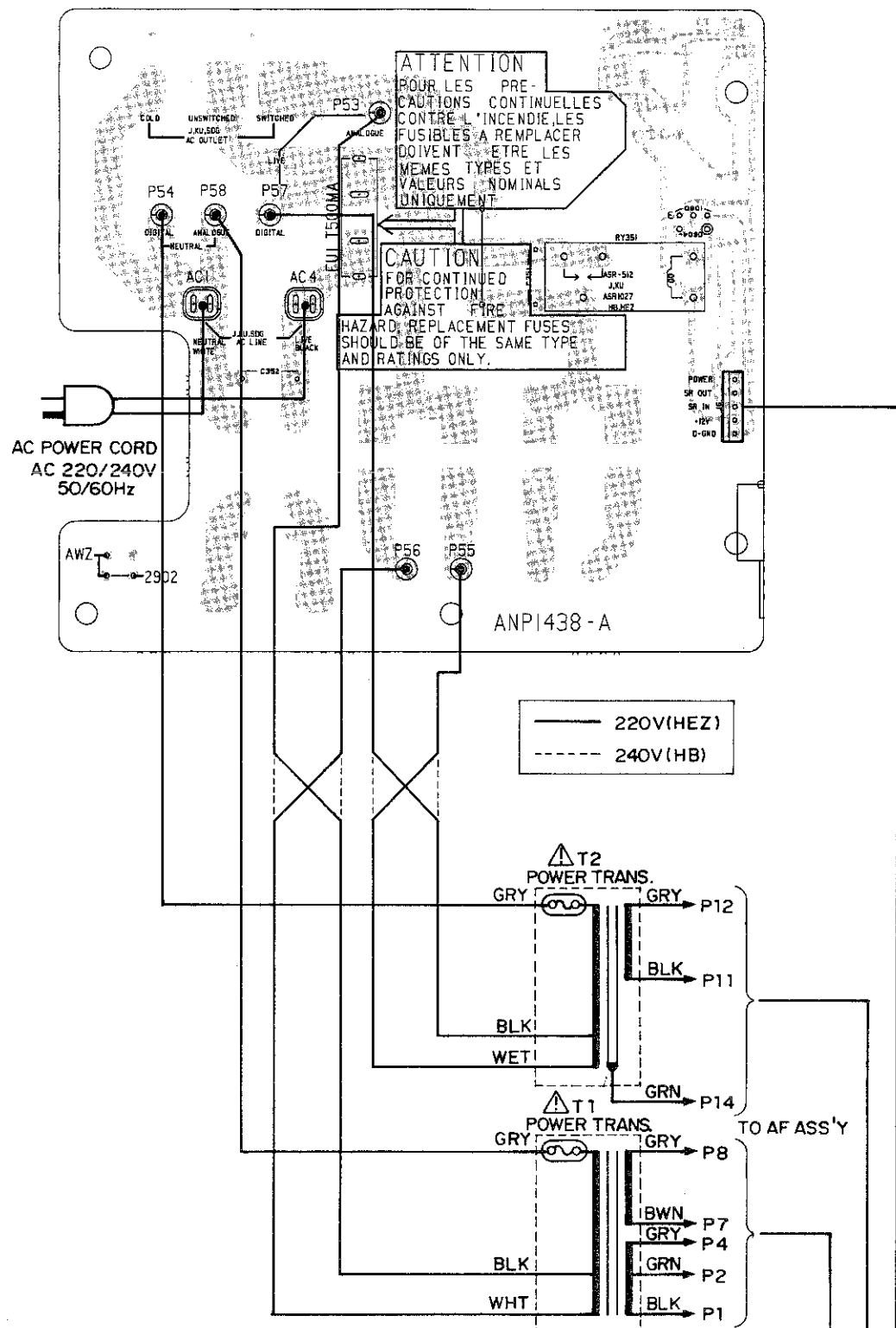
AF ASS'Y (AWK1302)

A

B

C

D



VR201

TO POWER TRANS. T1

TO POW

1

2

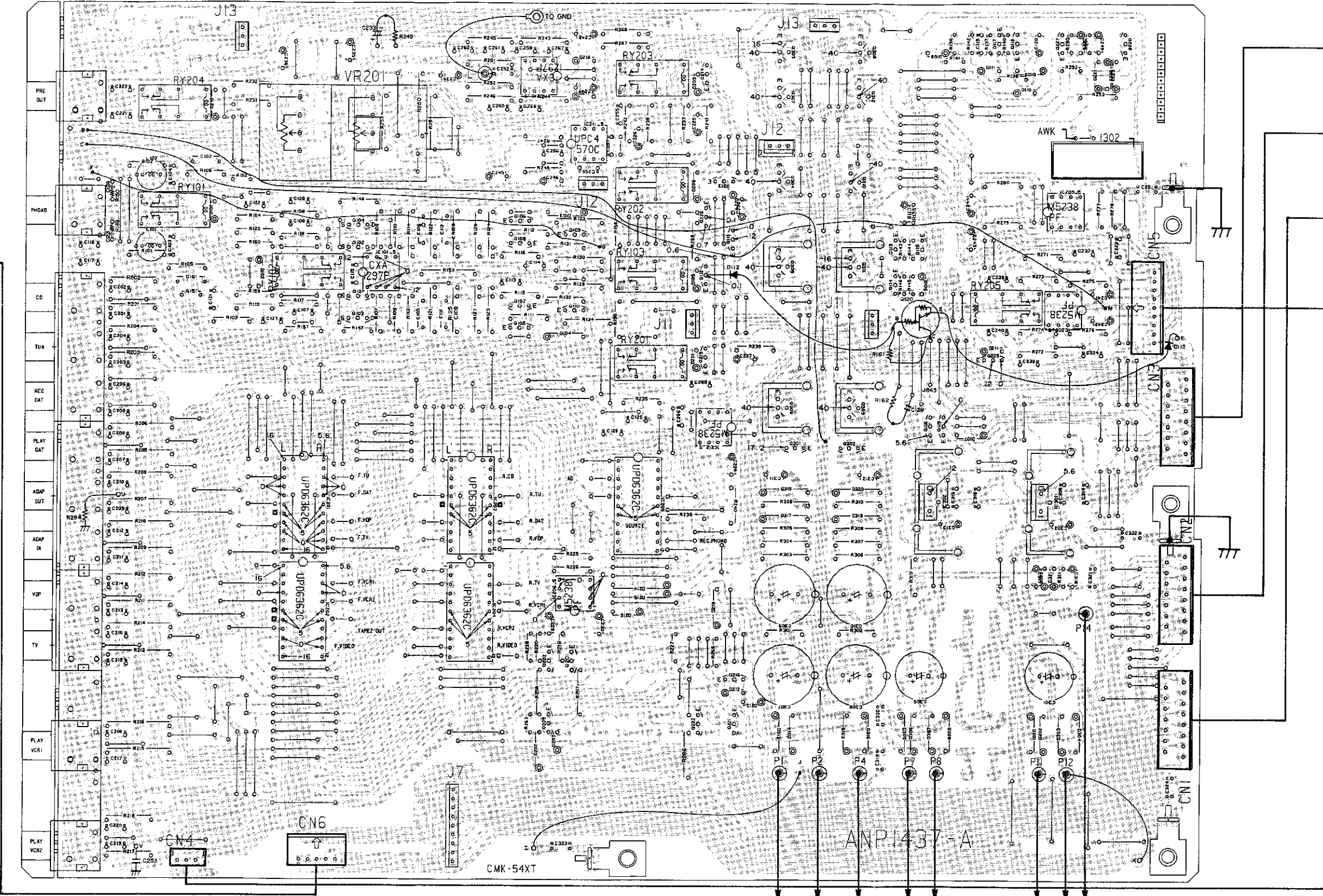
3

4

5

6

AF ASS'Y (AWK1302)



- TO CONTROL ASS'Y
J3
(To page 63)
- TO CONTROL ASS'Y
J2
(To page 63)
- TO CONTROL ASS'Y
J1
(To page 63)
- TO CONTROL ASS'Y
J5
(To page 63)
- TO FRONT INPUT ASS'Y
J4
(To page 62)

1. This P.C.B connection diagram is seen from the parts mount side.
2. The parts mounted on to the P.C.B can be replaced with those shown in the following correspondence table with wiring marks.

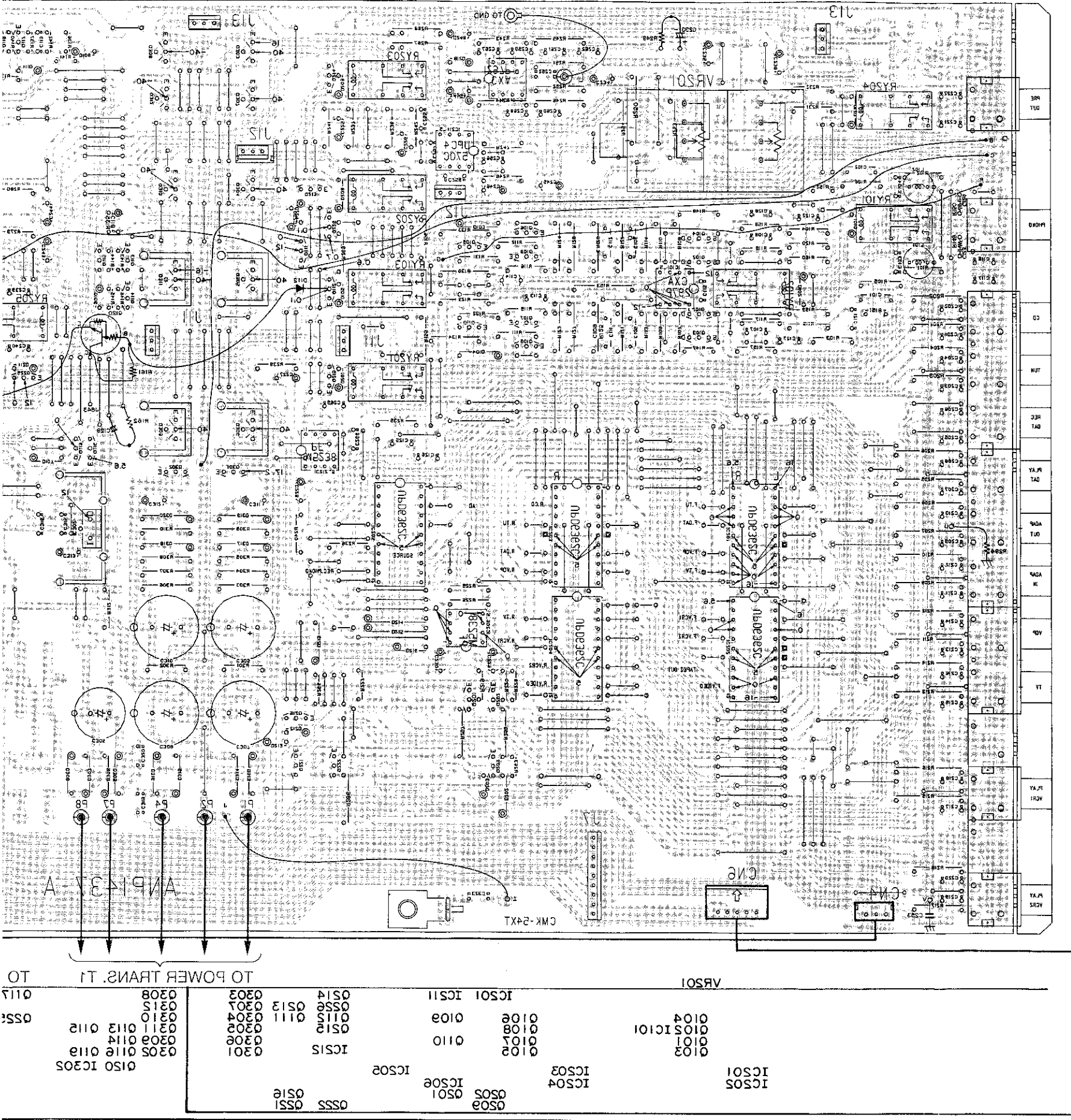
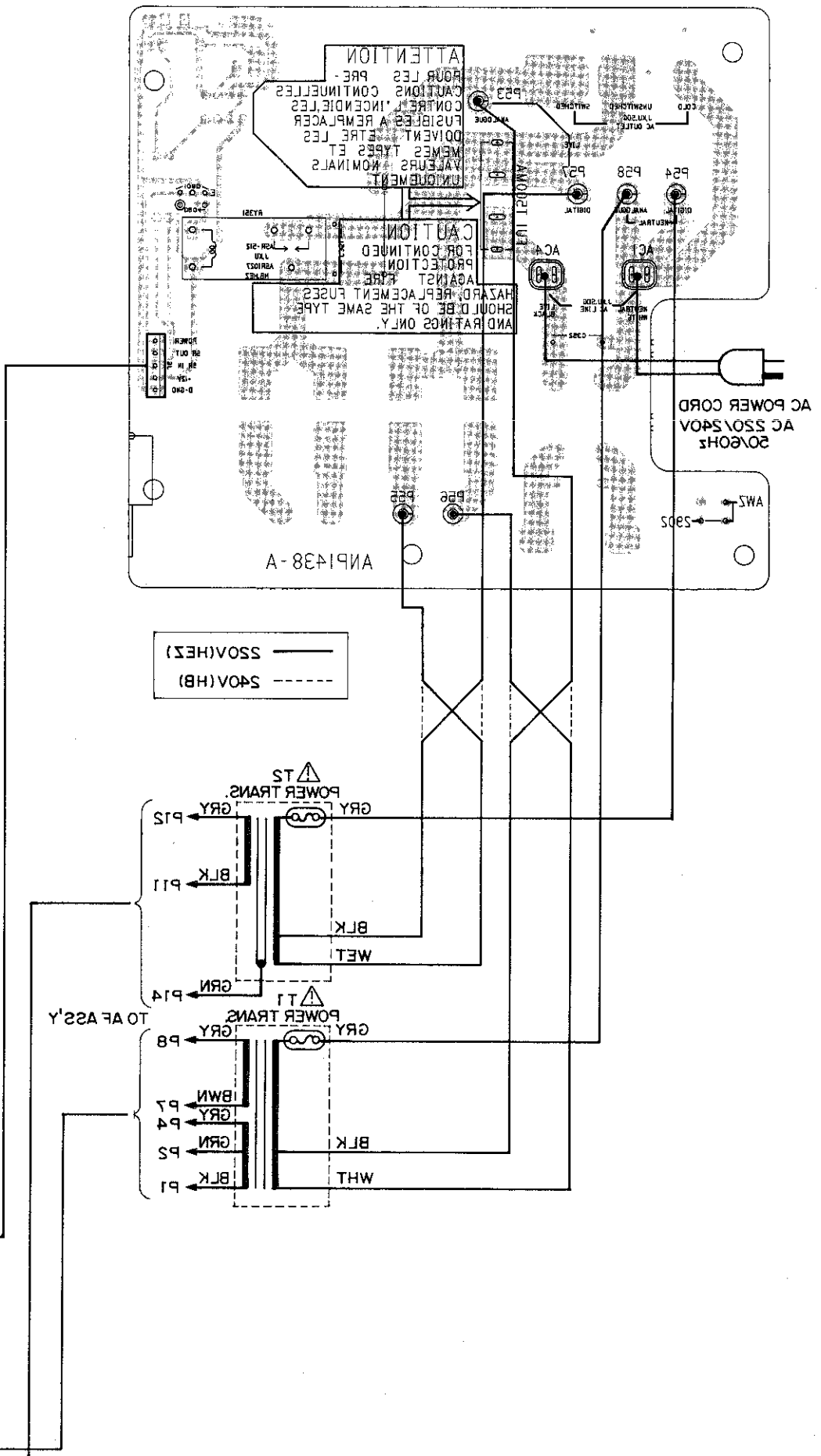
Indication of the P.C.B. pattern	Symbol of corresponding parts	Parts name
Q504		Transistor
Q215		Radiator type transistor
D203		Diode
R237		Resistor
C513		Condenser (Polar type)
C518		Condenser (Non-polar type)

Others

Wiring mark on the P.C.B pattern diagram	Parts list
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or semi-fixed resistor

- 3. The condenser terminal marked with double circles (©) represents (-) terminal.
- 4. The diode terminal marked with double circles (©) represents the cathode side.
- 5. The transistor terminal marked with "E" represents an emitter.

VR201		IC201		IC203		IC204		IC206		IC205		TO POWER TRANS. T1		TO POWER TRANS. T2	
Q104	Q102	Q106	Q109	Q108	Q107	Q105	Q202	Q201	Q209	Q222	Q216	Q221	Q214	Q226	Q308
Q101	Q103	Q110	Q111	Q112	Q113	Q114	Q215	Q217	Q218	Q219	Q220	Q223	Q224	Q225	Q312
		Q115	Q116	Q117	Q118	Q119	Q227	Q228	Q229	Q230	Q231	Q232	Q303	Q304	Q310
		Q120	Q121	Q122	Q123	Q124	Q233	Q234	Q235	Q236	Q237	Q238	Q305	Q306	Q311
		Q125	Q126	Q127	Q128	Q129	Q239	Q240	Q241	Q242	Q243	Q244	Q307	Q308	Q313
		Q130	Q131	Q132	Q133	Q134	Q245	Q246	Q247	Q248	Q249	Q250	Q309	Q310	Q314
		Q135	Q136	Q137	Q138	Q139	Q251	Q252	Q253	Q254	Q255	Q256	Q311	Q312	Q315
		Q140	Q141	Q142	Q143	Q144	Q257	Q258	Q259	Q260	Q261	Q262	Q313	Q314	Q316
		Q145	Q146	Q147	Q148	Q149	Q263	Q264	Q265	Q266	Q267	Q268	Q315	Q316	Q317
		Q150	Q151	Q152	Q153	Q154	Q269	Q270	Q271	Q272	Q273	Q274	Q317	Q318	Q318
		Q155	Q156	Q157	Q158	Q159	Q275	Q276	Q277	Q278	Q279	Q280	Q319	Q320	Q319
		Q160	Q161	Q162	Q163	Q164	Q281	Q282	Q283	Q284	Q285	Q286	Q321	Q322	Q320
		Q165	Q166	Q167	Q168	Q169	Q287	Q288	Q289	Q290	Q291	Q292	Q323	Q324	Q321
		Q170	Q171	Q172	Q173	Q174	Q293	Q294	Q295	Q296	Q297	Q298	Q325	Q326	Q322
		Q175	Q176	Q177	Q178	Q179	Q299	Q300	Q301	Q302	Q303	Q304	Q327	Q328	Q323
		Q180	Q181	Q182	Q183	Q184	Q305	Q306	Q307	Q308	Q309	Q310	Q329	Q330	Q324
		Q185	Q186	Q187	Q188	Q189	Q311	Q312	Q313	Q314	Q315	Q316	Q331	Q332	Q325
		Q190	Q191	Q192	Q193	Q194	Q317	Q318	Q319	Q320	Q321	Q322	Q333	Q334	Q326
		Q195	Q196	Q197	Q198	Q199	Q323	Q324	Q325	Q326	Q327	Q328	Q335	Q336	Q327
		Q200	Q201	Q202	Q203	Q204	Q329	Q330	Q331	Q332	Q333	Q334	Q337	Q338	Q328
		Q205	Q206	Q207	Q208	Q209	Q335	Q336	Q337	Q338	Q339	Q340	Q339	Q340	Q329
		Q210	Q211	Q212	Q213	Q214	Q341	Q342	Q343	Q344	Q345	Q346	Q341	Q342	Q330
		Q215	Q216	Q217	Q218	Q219	Q347	Q348	Q349	Q350	Q351	Q352	Q343	Q344	Q331
		Q220	Q221	Q222	Q223	Q224	Q353	Q354	Q355	Q356	Q357	Q358	Q345	Q346	Q332
		Q225	Q226	Q227	Q228	Q229	Q359	Q360	Q361	Q362	Q363	Q364	Q347	Q348	Q333
		Q230	Q231	Q232	Q233	Q234	Q365	Q366	Q367	Q368	Q369	Q370	Q349	Q350	Q334
		Q235	Q236	Q237	Q238	Q239	Q371	Q372	Q373	Q374	Q375	Q376	Q351	Q352	Q335
		Q240	Q241	Q242	Q243	Q244	Q377	Q378	Q379	Q380	Q381	Q382	Q353	Q354	Q336
		Q245	Q246	Q247	Q248	Q249	Q383	Q384	Q385	Q386	Q387	Q388	Q355	Q356	Q337
		Q250	Q251	Q252	Q253	Q254	Q389	Q390	Q391	Q392	Q393	Q394	Q357	Q358	Q338
		Q255	Q256	Q257	Q258	Q259	Q395	Q396	Q397	Q398	Q399	Q400	Q359	Q360	Q339
		Q260	Q261	Q262	Q263	Q264	Q401	Q402	Q403	Q404	Q405	Q406	Q361	Q362	Q340
		Q265	Q266	Q267	Q268	Q269	Q407	Q408	Q409	Q410	Q411	Q412	Q363	Q364	Q341
		Q270	Q271	Q272	Q273	Q274	Q413	Q414	Q415	Q416	Q417	Q418	Q365	Q366	Q342
		Q275	Q276	Q277	Q278	Q279	Q419	Q420	Q421	Q422	Q423	Q424	Q367	Q368	Q343
		Q280	Q281	Q282	Q283	Q284	Q425	Q426	Q427	Q428	Q429	Q430	Q369	Q370	Q344
		Q285	Q286	Q287	Q288	Q289	Q431	Q432	Q433	Q434	Q435	Q436	Q371	Q372	Q345
		Q290	Q291	Q292	Q293	Q294	Q437	Q438	Q439	Q440	Q441	Q442	Q373	Q374	Q346
		Q295	Q296	Q297	Q298	Q299	Q443	Q444	Q445	Q446	Q447	Q448	Q375	Q376	Q347
		Q300	Q301	Q302	Q303	Q304	Q449	Q450	Q451	Q452	Q453	Q454	Q377	Q378	Q348
		Q305	Q306	Q307	Q308	Q309	Q455	Q456	Q457	Q458	Q459	Q460	Q379	Q380	Q349
		Q310	Q311	Q312	Q313	Q314	Q461	Q462	Q463	Q464	Q465	Q466	Q381	Q382	Q350
		Q315	Q316	Q317	Q318	Q319	Q467	Q468	Q469	Q470	Q471	Q472	Q383	Q384	Q351
		Q320	Q321	Q322	Q323	Q324	Q473	Q474	Q475	Q476	Q477	Q478	Q385	Q386	Q352
		Q325	Q326	Q327	Q328	Q329	Q479	Q480	Q481	Q482	Q483	Q484	Q387	Q388	Q353
		Q330	Q331	Q332	Q333	Q334	Q485	Q486	Q487	Q488	Q489	Q490	Q389	Q390	Q354
		Q335	Q336	Q337	Q338	Q339	Q491	Q492	Q493	Q494	Q495	Q496	Q391	Q392	Q355
		Q340	Q341	Q342	Q343	Q344	Q497	Q498	Q499	Q500	Q501	Q502	Q393	Q394	Q356
		Q345	Q346	Q347	Q348	Q349	Q503	Q504	Q505	Q506	Q507	Q508	Q395	Q396	Q357
		Q350	Q351	Q352	Q353	Q354	Q509	Q510	Q511	Q512	Q513	Q514	Q397	Q398	Q358
		Q355	Q356	Q357	Q358	Q359	Q515	Q516	Q517	Q518	Q519	Q520	Q399	Q400	Q359
		Q360	Q361	Q362	Q363	Q364	Q521	Q522	Q523	Q524	Q525	Q526	Q401	Q402	Q360
		Q365	Q366	Q367	Q368	Q369	Q527	Q528	Q529	Q530	Q531	Q532	Q403	Q404	Q361
		Q370	Q371	Q372	Q373	Q374	Q533	Q534	Q535	Q536	Q537	Q538	Q405	Q406	Q362
		Q375	Q376	Q377	Q378	Q379	Q539	Q540	Q541	Q542	Q543	Q544	Q407	Q408	Q363
		Q380	Q381	Q382	Q383	Q384	Q545	Q546	Q547	Q548	Q549	Q550	Q409	Q410	Q364
		Q385	Q386	Q387	Q388	Q389	Q551	Q552	Q553	Q554	Q555	Q556	Q411	Q412	Q365
		Q390	Q391	Q392	Q393	Q394	Q557	Q558	Q559	Q560	Q561	Q562	Q413	Q414	Q366
		Q395	Q396	Q397	Q398	Q399	Q563	Q564	Q565	Q566	Q567	Q568	Q415	Q416	Q367
		Q400	Q401	Q402	Q403	Q404	Q569	Q570	Q571	Q572	Q573	Q574	Q417	Q418	Q368
		Q405	Q406	Q407	Q408	Q409	Q575	Q576	Q577	Q578	Q579	Q580	Q419	Q420	Q369
		Q410	Q411	Q412	Q413	Q414	Q581	Q582	Q583	Q584	Q585	Q586	Q421	Q422	Q370
		Q415	Q416	Q417	Q418	Q419	Q587	Q588	Q589	Q590	Q591	Q592	Q423	Q424	Q371
		Q420	Q421	Q422	Q423	Q424	Q593	Q594	Q595	Q596	Q597	Q598	Q425	Q426	Q372
		Q425	Q426	Q427	Q428	Q429	Q599	Q600	Q601	Q602	Q603	Q604	Q427	Q428	Q373
		Q430	Q431	Q432	Q433	Q434	Q605	Q606	Q607	Q608	Q609	Q610	Q429	Q430	Q374
		Q435	Q436	Q437	Q438	Q439	Q611	Q612	Q613	Q614	Q615	Q616	Q431	Q432	Q375
		Q440	Q441	Q442	Q443	Q444	Q617	Q618	Q619	Q620	Q621	Q622	Q433	Q434	Q376
		Q445	Q446	Q447	Q448	Q449	Q623	Q624	Q625	Q626	Q627	Q628	Q435	Q436	Q377
		Q450	Q451	Q452	Q453	Q454	Q629	Q630	Q631	Q632	Q633	Q634	Q437	Q438	Q378
		Q455	Q456	Q457											



A
B
C
D

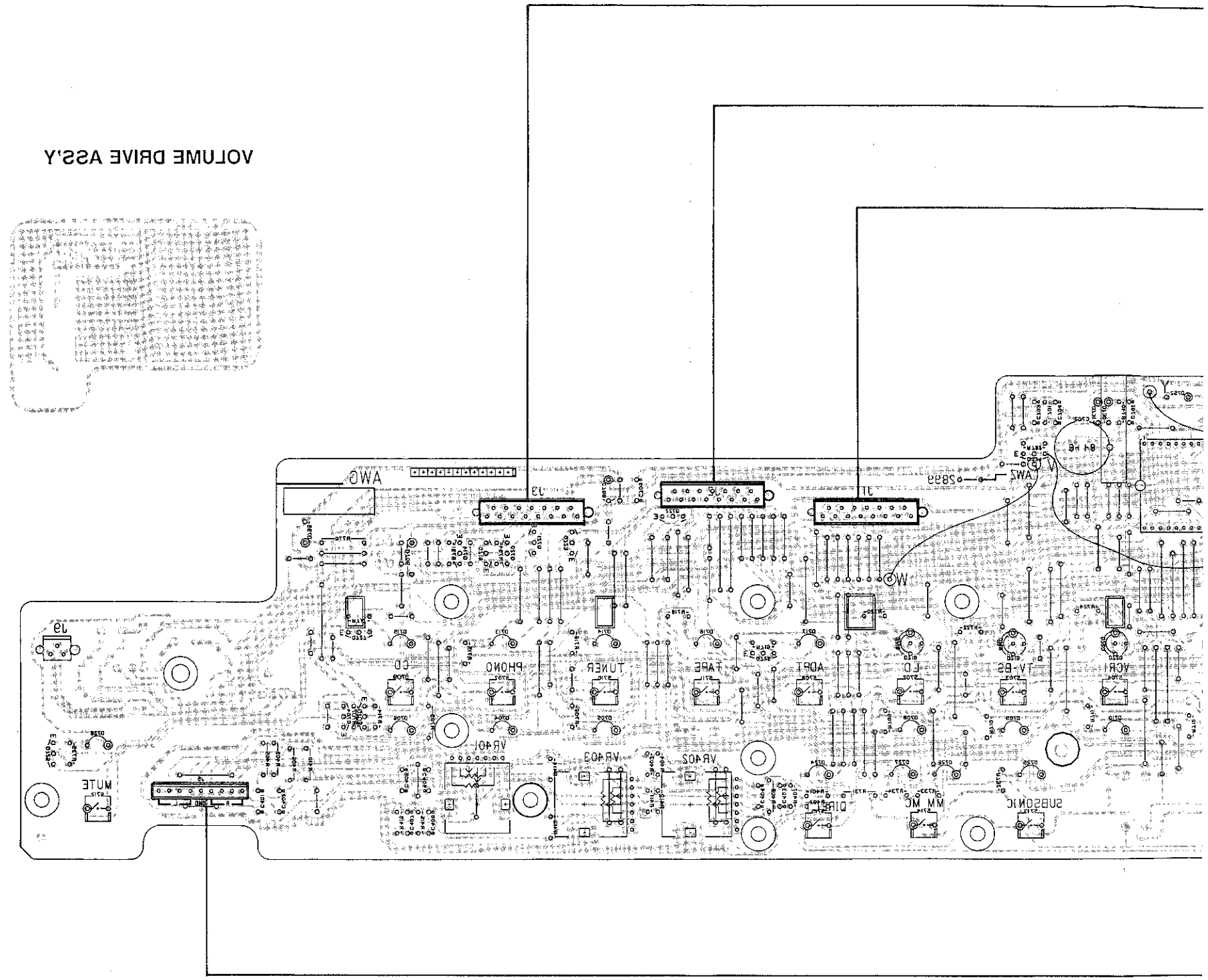
This P.C.B. connection diagram is viewed from the foil side.

A

B

C

D



Q754
Q758
Q703
Q704
Q750
Q751
Q752
Q753
Q754
Q755
Q756
Q757
Q758
Q759
Q760
Q761
Q762
Q763
Q764
Q765
Q766
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Q784
Q785
Q786
Q787
Q788
Q789
Q790
Q791
Q792
Q793
Q794
Q795
Q796
Q797
Q798
Q799
Q800

TO AF ASS'Y
CN3
(To page 55)

TO AF ASS'Y
CN2
(To page 55)

TO AF ASS'Y
CN1
(To page 55)

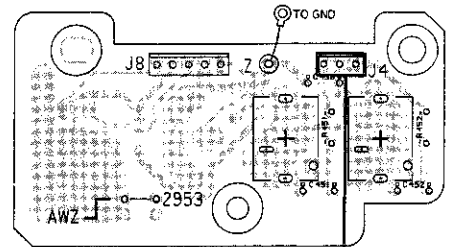
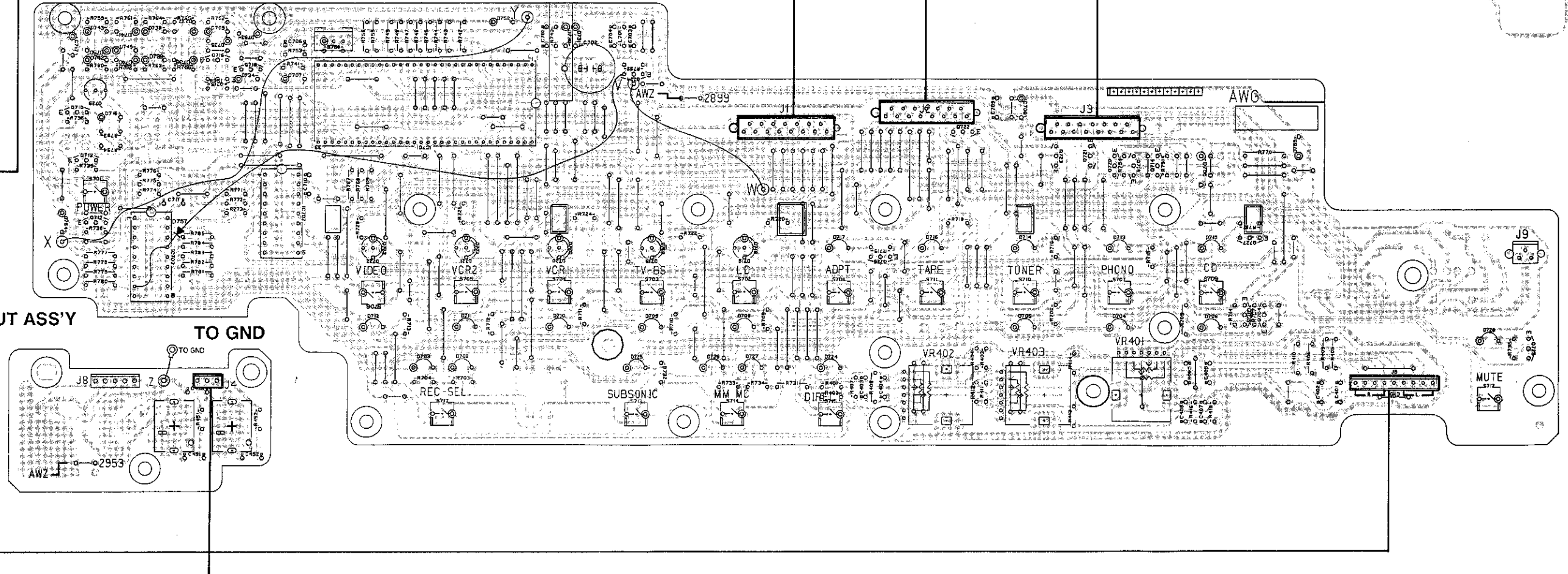
TO AF ASS'Y
CN5
(To page 55)

TO AF ASS'Y
CN4
(To page 54)

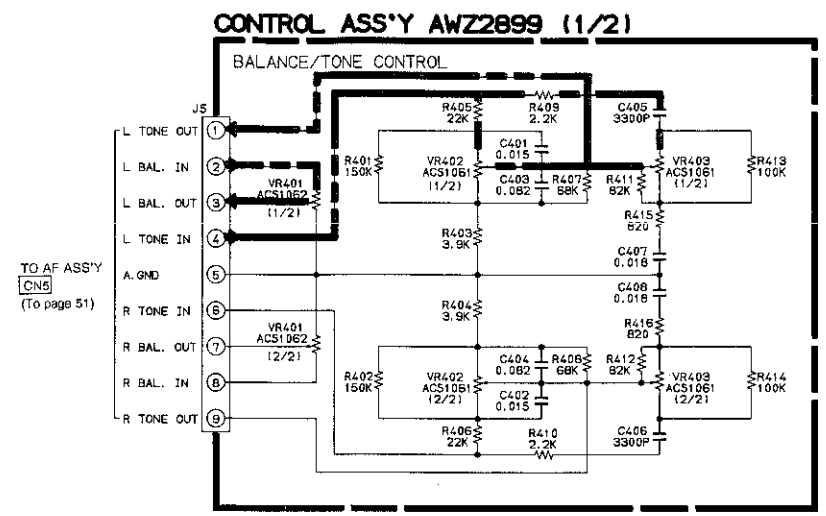
VOLUME DRIVE ASS'Y

CONTROL ASS'Y (AWZ2899)

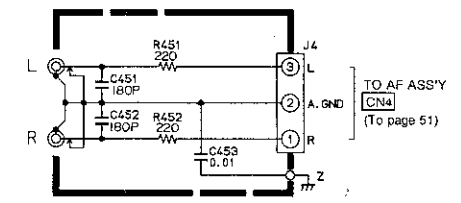
FRONT INPUT ASS'Y



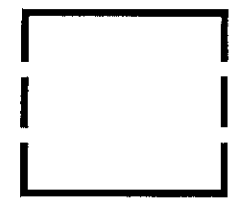
Q710	Q716 Q718	Q724	VR402	VR403	VR401	Q727
	Q715		Q722	Q723 Q721	Q720 Q719 Q714	
Q713	IC701					
Q712						
	IC703	IC702	Q726			Q704
						Q703
						Q725



FRONT INPUT ASS'Y



VOLUME DRIVE ASS'Y



ASS'Y ONLY FOR VOLUME MECHANISM

5.3 SPECIFICATIONS

Amplifier Section

Rated output	
20 Hz — 20 kHz, 0.01 % 10 k Ω	7 V
Total harmonic distortion	
20 Hz — 20 kHz, 1 V 10 k Ω	0.002 %
Input terminals (sensitivity/impedance)	
PHONO MM	2.5 mV/50 k Ω
PHONO MC	250 μ V/100 Ω
CD, TUNER, TAPE PLAY, LINE	150 mV/50 k Ω
Output terminals (output level/output impedance)	
TAPE REC	150 mV/2.2 k Ω
PRE OUT	1 V/1 k Ω
Frequency response	
PHONO MM 20 Hz — 20 kHz	\pm 0.2 dB
PHONO MC 20 Hz — 20 kHz	\pm 0.3 dB
CD, TUNER, TAPE PLAY, LINE, 1 Hz — 150 kHz	\pm $\frac{1}{3}$ dB
Tone control (Volume at -40 dB)	
BASS	\pm 8 dB, 100 Hz
TREBLE	\pm 8 dB, 10 kHz
Filter	
SUBSONIC	17 Hz, -12 dB/oct
MUTING	$-\infty$
SN ratio (short-circuit, A network)	
PHONO MM	93 dB (5 mV)
PHONO MC	76 dB (500 μ V)
CD, TUNER, TAPE PLAY, LINE	106 dB

Power section, other

Power requirements	a.c. 240 Volts~, 50/60 Hz
Power consumption	30 W
External dimensions	459 (W) x 417 (D) x 163 (H) mm
Weight	10.1 kg

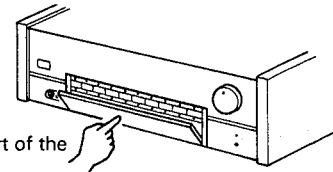
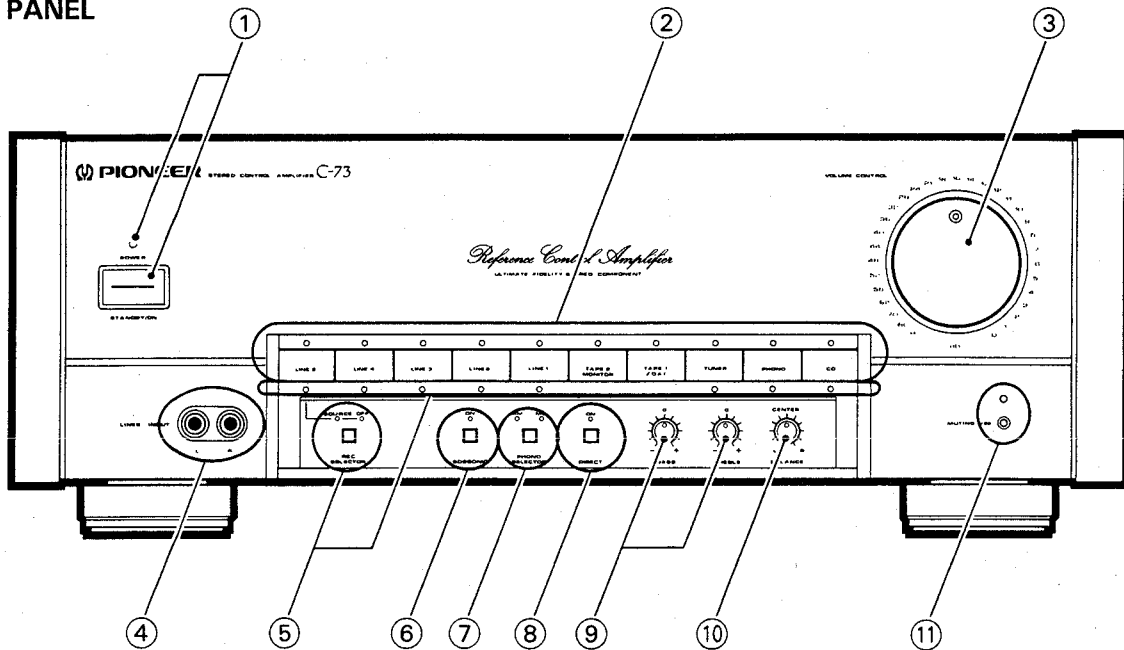
Accessories

Pin-plug cord	1
Operating Instructions	1
Cushion spacer	2

The specifications and design noted above are subject to change without notice, due to improvements.

5.4 PANEL FACILITIES

FRONT PANEL



Press the center top part of the door to open.

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.

The POWER indicator is on.

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.

When the POWER indicator is off, the unit is in STANDBY.

② Input selector buttons/indicators

Use to select the component for playback.

[CD] : For compact disc player.

[PHONO] : For turntable.

[TUNER] : For listening to FM/AM broadcasts with a tuner.

[TAPE 1/ DAT] : To use the cassette deck or DAT connected to the TAPE 1/DAT terminals.

[TAPE 2 MONITOR] : To use the cassette deck, connected to the TAPE 2 MONITOR terminals.

[LINE 1] : For components connected to LINE 1 terminal.

[LINE 2] : For components connected to LINE 2 terminal.

[LINE 3] : For components connected to LINE 3 terminal.

[LINE 4] : For components connected to LINE 4 terminal.

[LINE 5] : For components connected to LINE 5 terminal on front panel.

③ VOLUME CONTROL

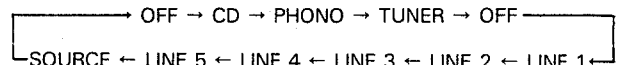
Use to adjust the sound volume. At the $[-\infty]$ position, sound will not be heard, while at the $[0]$ position, sound volume will be at its maximum.

④ LINE 5 INPUT terminals

Connect to an audio component's output terminal.

⑤ REC SELECTOR button/indicators

Use to select the playback source component used when performing recording. The audio signals from the select component will be output from the output terminals. When set to SOURCE (SOURCE indicator lights), the signals selected with the input selector switch will be output.



⑥ SUBSONIC button/indicator

When the button is pressed to the ON position, the indicator lights and the subsonic filter acts to cut out all frequencies below 17 Hz.

⑦ PHONO SELECTOR button/indicators

Set in accordance with the type of cartridge used on your record player (the corresponding indicator will light).

[MM]: Set here when using a moving magnet cartridge, or a high-output (1 mV or more) moving coil (MC) cartridge.

[MC]: Set here when using a moving coil cartridge.

⑧ DIRECT button/indicator

Use this to listen to the audio signal without routing it through subsonic, tone control (BASS, TREBLE), or balance control circuitry.

NOTE:

When the DIRECT button is in the ON position, the TAPE 2 MONITOR button and SUBSONIC button do not operate.

⑨ Tone controls

[BASS]: Use to adjust low frequency sounds. The central [0] indicates the standard (flat) position. When the control is rotated to the right, low-frequency sounds are augmented; when rotated to the left, low-frequency sounds are attenuated.

[TREBLE]: Use to adjust high-frequency sounds. The central [0] indicates the standard (flat) position. When the control is rotated to the right, high-frequency sounds are augmented; when rotated to the left, high-frequency sounds are attenuated.

⑩ BALANCE control

Normally leave in the center position. Use to adjust the balance of sound from right and left channels.

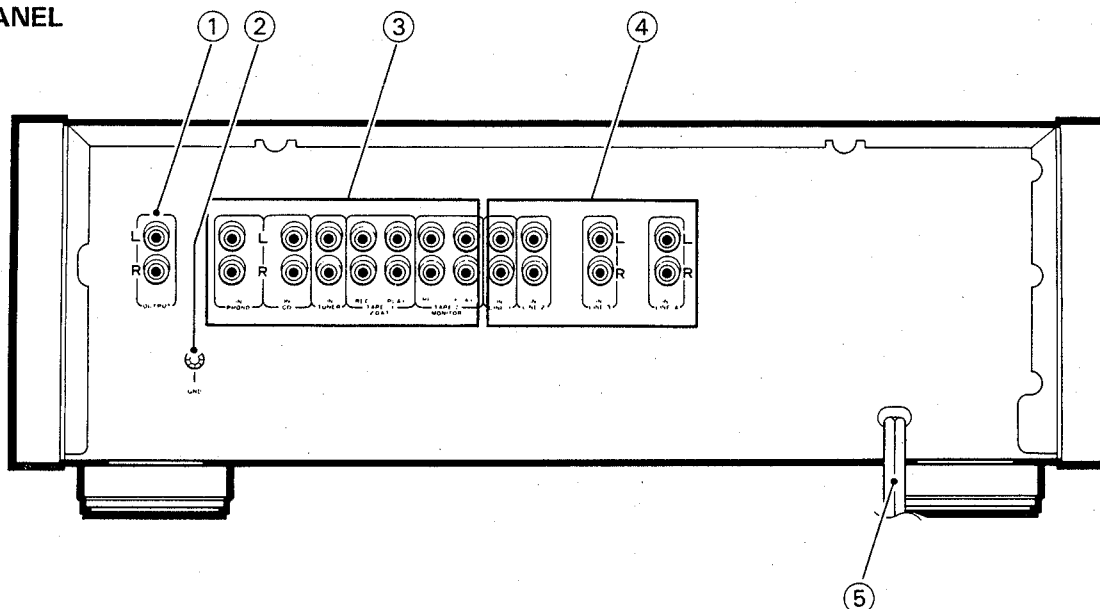
⑪ MUTING button/indicator

Use to temporarily cut the sound. The muting function is on when the MUTING indicator lights. Press the button again to turn the muting function off and return the sound volume to the normal level (the indicator goes out).

NOTE:

When listening at high volume levels, even if you switch MUTING ON, you will still hear a faint sound.

REAR PANEL



① OUTPUT terminals

Connect to the power amplifier input terminals. Adjust the output level of the signal with this unit's VOLUME CONTROL. When using with a power amplifier or surround processor without volume control capability, connect to this terminal.

② Ground (GND) terminal

Connect to the ground terminal of your turntable.

③ Audio components terminals

[PHONO] : Turntable.
[CD] : Compact disc player.
[TUNER] : FM/AM Tuner.
[TAPE 1/DAT] : Cassette deck 1 (first deck) or DAT.
PLAY : For playback (connect to the tape deck's PLAY terminals).
REC : For recording (connect to the tape deck's REC terminals).
[TAPE 2 MONITOR] : Cassette deck 2 (second deck).
PLAY : For playback. Connect to the cassette deck PLAY terminal.
REC : For recording. Connect to the cassette deck REC terminal.

④ LINE 1-4 input terminals


Connect to an audio component's output terminal.

⑤ Power cord

Connect to a household wall outlet, or the power outlet of an audio timer.



6. FOR C-73/HB TYPE

NOTES:

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

CONTRAST OF MISCELLANEOUS PARTS

The C-73/HB type is the same as the C-73/HEZ type with the exception of the following sections.

Mark	Symbol & Description	Parts No.		Remarks
		C-73/HEZ type	C-73/HB type	
	AC POWER CORD	ADG1036	ADG1041	
	FU1 FUSE (T500mA)	AEK-401	AEK-505	
	OPERATING INSTRUCTIONS (ENGLISH/GERMAN/ FRENCH/ITALIAN/DUTCH/ SWEDISH/SPANISH/ PORTUGUESE)	ARE1167	-----	
	OPERATING INSTRUCTIONS (ENGLISH)	-----	ARB1270	

7. IC INFORMATION

● PD5139A

TERMINAL FUNCTION

No.	Terminal name	I/O	P type	Function	Active
1	Vcc	—	—	+5V power supply	
2	GND	—	—	A/D, D/A analog GND	
3	Vref	—	—	A/D, D/A reference voltage	
4	R-SEL-OFF	O	AD	REC-SELECTOR ON/OFF	H:OFF
5	OPT2	O	N	MM/MC Switching	H:MC
6	MM/MC	O	N	MM/MC Switching (LED Drive)	H:MM
7	LOUD	O	N	LOUDNESS ON/OFF (Not used: GND)	H:OFF
8	SUBSONIC	O	N	SUBSONIC ON/OFF	H:OFF
9	DIRECT	O	N	DIRECT ON/OFF	H:OFF
10	V-ADPT	O	N	VIDEO ADPT. ON/OFF (Not used: GND)	H:OFF
11	A-ADPT	O	N	AUDIO ADPT. (TAPE2/MONITOR) ON/OFF	H:OFF
12	SR-REM	I	C	SR Remote control input	SR
13	CE2	O	N	PD0012A CE ₂ (Not used: GND)	L:ON
14	CE1	O	N	PD0012A CE ₁	L:ON
15	CE0	O	N	PD0012A CE ₀	L:ON
16	DATA	O	N	PD0012A DATA	
17	CLK	O	N	PD0012A CLK	
18	V-FUNC0	O	N	VIDEO FUNCTION control (0)*1	H/L
19	V-FUNC1	O	N	VIDEO FUNCTION control (1)*1	H/L
20	V-FUNC2	O	N	VIDEO FUNCTION control (2)*1	H/L
21	V-FUNC3	O	N	VIDEO FUNCTION control (3) (Not used : GND)	H/L
22	V-ASS'Y-ON/OFF	O	N	VIDEO ASS'Y LOCAL ON/OFF*1	L:ON
23	INT2	I	C	For SILENT operation. POWER ON signal	L:ON
24	Vol-UP	O	N	VOLUME UP output (electrically activated)	H:UP
25	Vol-DOWN	O	N	VOLUME DOWN output (electrically activated)	H:DOWN
26	INT1	I	C	For SILENT operation. POWER OFF signal	L:OFF
27	GND	—	—	0V	
28	RESET	I	—	RESET input. 0V: reset at 2 μs and plus.	L:Reset
29	Xin	I	—	The 4.19MHz ceramic resonator is connected between terminals.	
30	Xout	O			
31	NC	O	C	TIMING CLOCK output (Not used: NC)	
32	Vss	—	—	0V	
33	KEYin7	I	C	Key matrix input	L:Key ON
34	KEYin6	I	C	Key matrix input	L:Key ON

No.	Terminal name	I/O	P type	Function	Active
35	KEYin5	I	C	Key matrix input	L:Key ON
36	KEYin4	I	C	Key matrix input	L:Key ON
37	KEYin3	I	C	Key matrix input	L:Key ON
38	KEYin2	I	C	Key matrix input	L:Key ON
39	KEYin1	I	C	Key matrix input	L:Key ON
40	KEYin0	I	C	Key matrix input	L:Key ON
41	V-R-SEL2	O	N	VIDEO REC-SEL control (2)*1	H/L
42	V-R-SEL1	O	N	VIDEO REC-SEL control (1)*1	H/L
43	V-R-SEL0	O	N	VIDEO REC-SEL control (0)*1	H/L
44	POWER-ON/OFF	O	N	AC primary side ON/OFF	H:OFF
45	SP-B	O	N	SPEAKER B ON/OFF (Not used: GND)	H:OFF
46	SP-A	O	N	SPEAKER A ON/OFF (Not used: GND)	H:OFF
47	FUNC-LD	O	N	FUNCTION [LD] : AUDIO control*2	L:Selects
48	FUNC-CD	O	N	FUNCTION [CD] : AUDIO control*2	L:Selects
49	V-IND-V2	O	N	FUNCTION [VIDEO2] : VIDEO-IND (Not used: GND)	L:Lights
50	V-IND-V1	O	N	FUNCTION [VIDEO] : VIDEO-IND*2	L:Lights
51	V-IND-VTR3	O	N	FUNCTION [VCR3] : VIDEO-IND (Not used: GND)	L:Lights
52	V-IND-VTR2	O	N	FUNCTION [VCR2] : VIDEO-IND*2	L:Lights
53	V-IND-VTR1	O	N	FUNCTION [VCR1] : VIDEO-IND*2	L:Lights
54	V-IND-TV	O	N	FUNCTION [TV] : VIDEO-IND*2	L:Lights
55	V-IND-LD	O	N	FUNCTION [LD] : VIDEO-IND*2	L:Lights
56	REC-MUTE	O	N	REC MUTE CONTROL	L:ON
57	MUTE-IND	O	C	MUTE IND	L:Lights
58	MUTE-CONT	O	C	MUTE CONTROL	H:ON
59	J.KU/HE.HB	O	C	Destination switching strobe OUT*3	L:OUT
60	KEYout4	O	C	Key strobe OUT4	L:OUT
61	KEYout3	O	C	Key strobe OUT3	L:OUT
62	KEYout2	O	C	Key strobe OUT2	L:OUT
63	KEYout1	O	C	Key strobe OUT1	L:OUT
64	KEYout0	O	C	Key strobe OUT0	L:OUT

P type (Port type)

- C: CMOS input or CMOS output
- N: Nch open drain output
- AN: 8-bit A/D analog input

VIDEO Function Control

Pin 18	Pin 19	Pin 20	Pin 21	Function
H	H	H	L	TV
L	H	H	L	LD
H	L	H	L	VIDEO
L	L	H	L	VCR1
H	H	L	L	VCR2

VIDEO REC-SEL Control

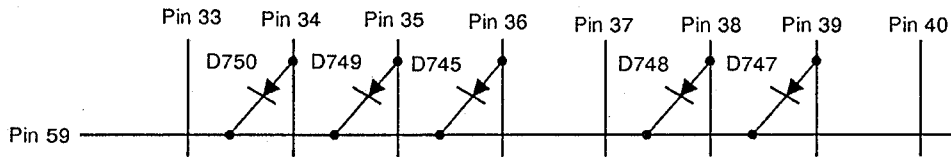
Pin 43	Pin 42	Pin 41	Function
H	H	H	TV
L	H	H	LD
H	L	H	VIDEO
L	L	H	VCR1
H	H	L	VCR2

*1: Used only for C-72.

*2: Function names are different between C-72 and C-73 as follows. The names shown in above tables are in accordance with C-72.

Functions of C-72	Functions of C-73
CD	CD
PHONO	PHONO
TUNER	TUNER
TAPE1/DAT	TAPE1/DAT
TAPE2/MONITOR	TAPE2/MONITOR
LD	LINE1
TV/AUX	LINE2
VCR1	LINE3
VCR2	LINE4
VIDEO	LINE5

*3: Diode matrix



By connecting (C) or disconnecting (NC) D745 and D747-D750, switching of below-mentioned optional functions is available.

D750: Destination switching

(C): For destinations corresponding to only AUDIO functions (C-73/HEZ and HB types.)

(NC): For destinations corresponding to AUDIO/VIDEO functions (C-70/J, C-72/KU/CA and SD types).

D749 and D745: Switching of AUDIO functions, and switching of common functions to AUDIO/VIDEO.

Type	D749	D745	CD	PHONO	TUNER	TAPE1	LINE 1 LD	LINE 2 TV	LINE 3 VCR1	LINE 4 VCR2	LINE5 VIDEO
C-72/KU/CA and SD types	C	NC	**1	**1	**1	**1	5	6	7,8	9	10
C-73/HEZ and HB types	NC	C	1	2	3	4	5	6	7	8	9

Note: Figures in the tables show the cyclic order.

**1: D747 and D748: Switching of AUDIO functions (Available only for destinations corresponding to AUDIO/VIDEO).

D748	D747	CD	PHONO	TUNER	TAPE1
C	C	1	2	3	4

Note: Figures in the tables show the cyclic order.

● PD0012A (IC702)

No.	Terminal name	I/O	P type	Function	Active
1	DATA	—	—	DATA input	
2	CLK	—	—	CLOCK input	
3	CEO	—	—	CHIP ENABLE input	
4	FUNC PHONO	O	N	FUNCTION [PHONO] : AUDIO control*1	L:Selects
5	FUNC TUNER	O	N	FUNCTION [TUNER] : AUDIO control*1	L:Selects
6	FUNC DAT1	O	N	FUNCTION [DAT-1] : AUDIO control (Not used: GND)	L:Selects
7	FUNC DAT2	O	N	FUNCTION [DAT-2] : AUDIO control (Not used: GND)	L:Selects
8	FUNC TAPE	O	N	FUNCTION [TAPE1] : AUDIO control*1	L:Selects
9	GND	—	—	GND	
10	FUNC AUX1	O	N	FUNCTION [AUX-1] : AUDIO control (Not used: GND)	L:Selects
11	FUNC TV	O	N	FUNCTION [TV] : AUDIO control*1	L:Selects
12	FUNC VTR1	O	N	FUNCTION [VCR-1] : AUDIO control*1	L:Selects
13	FUNC VTR2	O	N	FUNCTION [VCR-2] : AUDIO control*1	L:Selects
14	FUNC VTR3	O	N	FUNCTION [VCR-3] : AUDIO control (Not used: GND)	L:Selects
15	FUNC V1	O	N	FUNCTION [VIDEO] : AUDIO control*1	L:Selects
16	FUNC V2	O	N	FUNCTION [VIDEO2] : AUDIO control (Not used: GND)	L:Selects
17	RESET	—	—	RESET input	
18	+5V	—	—	+5V power supply	

NOTE: For P type (Port type), refer to PD5139A.

*1: Refer to *2 of PD5139A.

● PD0012A (IC703)

No.	Terminal name	I/O	P type	Function	Active
1	DATA	—	—	DATA input	
2	CLK	—	—	CLOCK input	
3	CE1	—	—	CHIP ENABLE input	
4	R-SEL PHONO	O	N	REC-SEL [PHONO] : AUDIO control*1	L:Selects
5	R-SEL CD	O	N	REC-SEL [CD] : AUDIO control*1	L:Selects
6	R-SEL TUNER	O	N	REC-SEL [TUNER] : AUDIO control*1	L:Selects
7	R-SEL DAT1	O	N	REC-SEL [DAT-1] : AUDIO control (Not used: GND)	L:Selects
8	R-SEL TAPE	O	N	REC-SEL [TAPE1] : AUDIO control*1	L:Selects
9	GND	—	—	GND	
10	R-SEL LD	O	N	REC-SEL [LD] : AUDIO control*1	L:Selects
11	R-SEL TV	O	N	REC-SEL [TV] : AUDIO control*1	L:Selects
12	R-SEL VTR1	O	N	REC-SEL [VCR-1] : AUDIO control*1	L:Selects
13	R-SEL VTR2	O	N	REC-SEL [VCR-2] : AUDIO control*1	L:Selects
14	R-SEL V1	O	N	REC-SEL [VIDEO] : AUDIO control*1	L:Selects
15	R-SEL OFF	O	N	REC-SEL [OFF] IND	L:Selects
16	R-SEL SOURCE	O	N	REC-SEL [SOURCE] control	L:Selects
17	RESET	—	—	RESET input	
18	+5V	—	—	+5V power supply	

NOTE: For P type (Port type), refer to PD5139A.

*1: Refer to *2 of PD5139A.