

Service Manual

ORDER NO.
ARP1982

STEREO DOUBLE CASSETTE DECK RECEIVER

RX-530_{KU}

- Refer to the service manual ARP1789, RX-720/KU, KC, RX-520/KU and KC types.
- This manual is applicable to the RX-530/KU type.

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.

CONTRAST OF MISCELLANEOUS PARTS

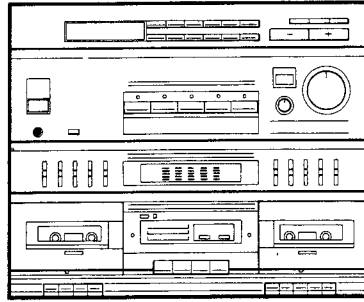
NOTES:

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

The RX-530/KU type is the same as the RX-720/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		RX-720/KU type	RX-530/KU type	
	Button (FUNCTION)	AAD1534	AAD1799	
	Button (BAND)	AAD1666	AAD1759	
	Button (COPY)	AAD1572	AAD1798	
	Button (STATION)	AAD1574	AAD1800	
	Button (DECK)	AAE1114	AAE1130	
	Button (DECK)	AAE1115	AAE1131	
	Button (DECK)	AAE1116	AAE1132	
	Button (DECK)	AAE1117	AAE1133	
	Button (DECK)	AAE1118	AAE1108	
	Power panel	AAK1718	AAK1675	
	Deck center panel A	AAK1719	AAK1943	
	Deck center panel B	AAK1720	AAK1945	
	Spectrum analyzer panel A	AAK1721	AAK1947	
	Spectrum analyzer panel B	AAK1722	AAK1950	
	Tuner display panel	AAK1725	AAK1953	
	Door R	AAN1129	AAN1205	
	Door L	AAN1130	AAN1206	
	Front panel	AMB1501	AMB1657	
\triangle	T1 Power transformer	ATS1196	ATS1197	
	Packing case	AHD1645	AHD1846	
	Operating Instructions(English)	ARB1180	ARB1242	
	Remote control unit	AXD1048	.....
	Remote control unit	.....	AXD1140	

Service Manual



ORDER NO.
ARP1789

STEREO CASSETTE TAPE DECK RECEIVER

RX-720

RX-520

US

Original

RX-720 AND RX-520 HAVE TWO VERSIONS:

Type	Applicable model		Power requirement	Destination
	RX-720	RX-520		
KU	○	○	AC120V only	U.S.A.
KC	○	○	AC120V only	Canada

- This manual is applicable to the RX-720/KU, KC, RX-520/KU, KC types.

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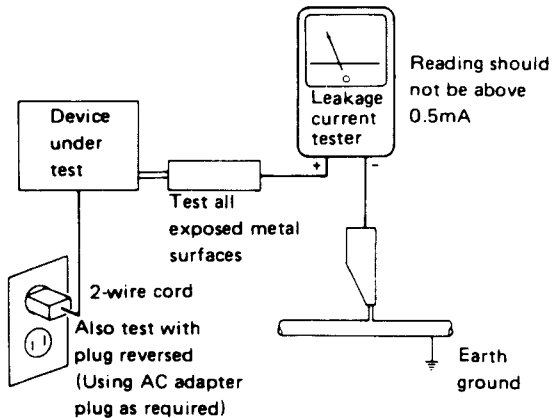
1. SAFETY INFORMATION

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

The use of a substitute replacement component which 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 AND PARTS LIST

NOTES:

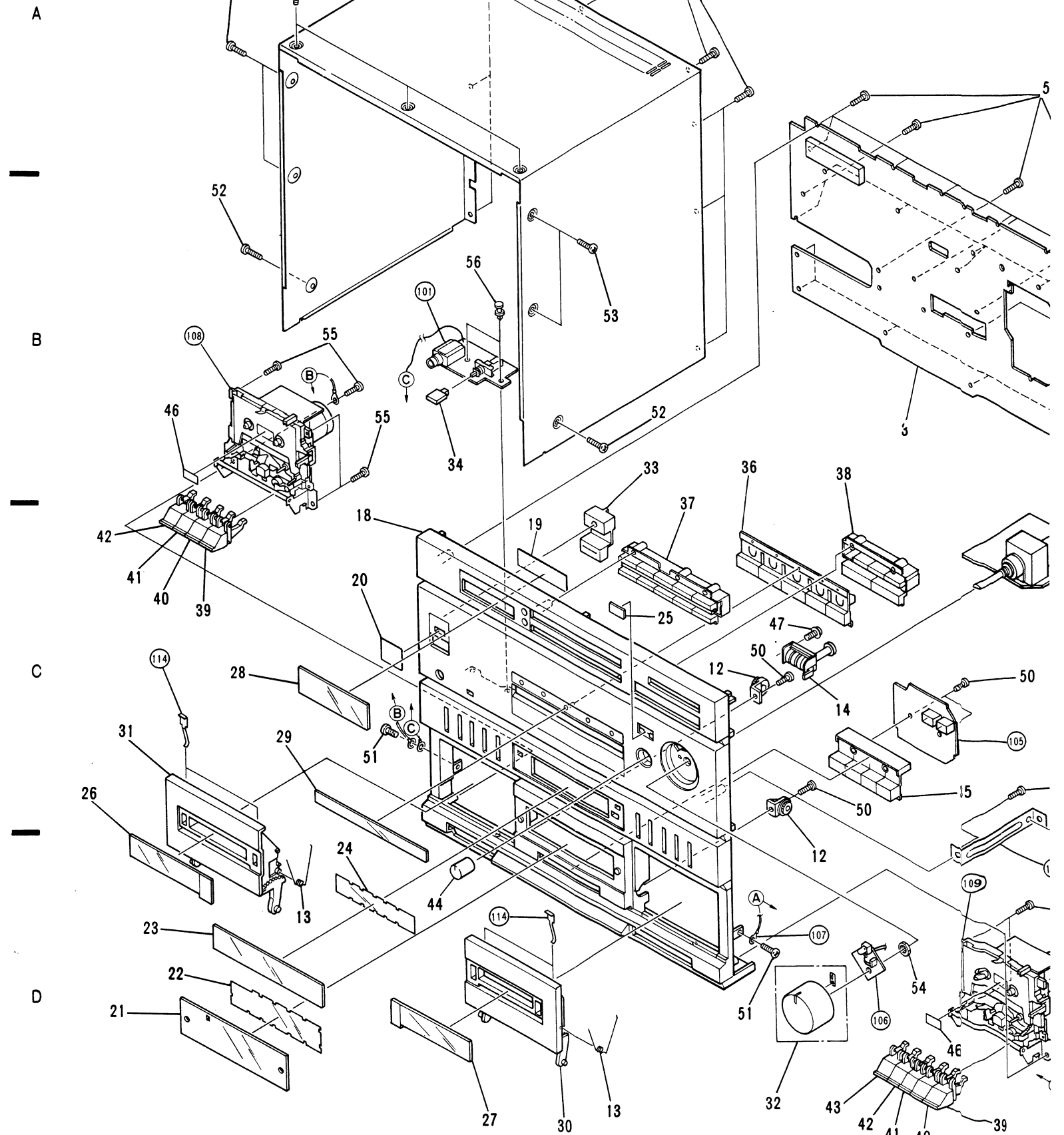
- Parts without part number cannot be supplied.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be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

2.1 EXTERIOR

Parts list of Exterior

Mark	No.	Parts No.	Description	Mark	No.	Parts No.	Description
	1	AWZ2288	Power assembly		38	AAD1566	Button (BAND)
	2	AWZ2292	Complex assembly		39	AAE1114	Button (DECK)
	3	AWZ2294	Control assembly		40	AAE1115	Button (DECK)
Δ	4	NJM7812FA	Regulator IC (IC701,IC702)		41	AAE1116	Button (DECK)
Δ	5	2SA1302	Transistor (Q3,Q4)		42	AAE1117	Button (DECK)
Δ	6	2SC3281	Transistor (Q1,Q2)		43	AAE1118	Button (DECK)
Δ	7	ATS1196	Power transformer (AC120V,T1)		44	RAC1211	VR knob B
Δ	8	AKP1015	AC socket (1P OUTLET)		45	ANE1191	Bonnet case
Δ	9	AEK-122	Fuse (2A/125V,FU2,FU3)		46	AAX1301	Remain display sheet
Δ	10	AEK-309	Fuse (6.3A/125V,FU1)		47	ABA1005	Screw
Δ	11	ADG1033	AC Power cord		48	ABA1021	Screw (3 x 10)
	12	AXA1004	Damper assembly		49	ABA1037	Screw (3 x 14)
	13	ABH1043	Door spring		50	BBZ26P080FMC	Screw
	14	AAW1008	Counter		51	BBZ30P080FMC	Screw
	15	AEC-784	Leg assembly		52	BBZ30P080FZK	Screw
	16	AEE1014	Mica sheet		53	BPZ30P100FZK	Screw
	17	AEP-113	Strain relief		54	NK90FUC	Nut
	18	AMB1501	Front panel		55	VPZ30P080FMC	Screw
	19	AAK1227	FL filter		56	AMR1066	Plastic revet
	20	AAK1718	Power panel		101		Head phone assembly
	21	AAK1719	Deck center panel A		102		SP Out assembly
	22	AAK1720	Deck center panel B		103		Connect assembly
	23	AAK1721	Spectrum analyzer panel A		104		Main VR assembly
	24	AAK1722	Spectrum analyzer panel B		105		Deck SW assembly
	25	AAK1680	IR filter		106		VR LED assembly
	26	AAK1723	Door panel L		107		Earth lead
	27	AAK1724	Door panel R		108		Tape transport unit (DECK I)
	28	AAK1725	Tuner display panel		109		Tape transport unit (DECK II)
	29	AAK1726	Function panel		110		Chassis
	30	AAN1129	Door R		111		Rear panel
	31	AAN1130	Door L		112		Bottom plate
	32	AAB1102	Rotary knob assembly		113		Heat sink
	33	AAD1336	Button (POWER)		114		Keep plate
	34	AAD1544	Push button		115		PCB Heat sink holder
	35	AAD1572	Button (COPY)		116		Binder
	36	AAD1534	Button (FUNCTION)		117		PC suport
	37	AAD1574	Button (STATION)		118		Spacer
					119		Pin grommet

Exterior



Exterior

A

B

C

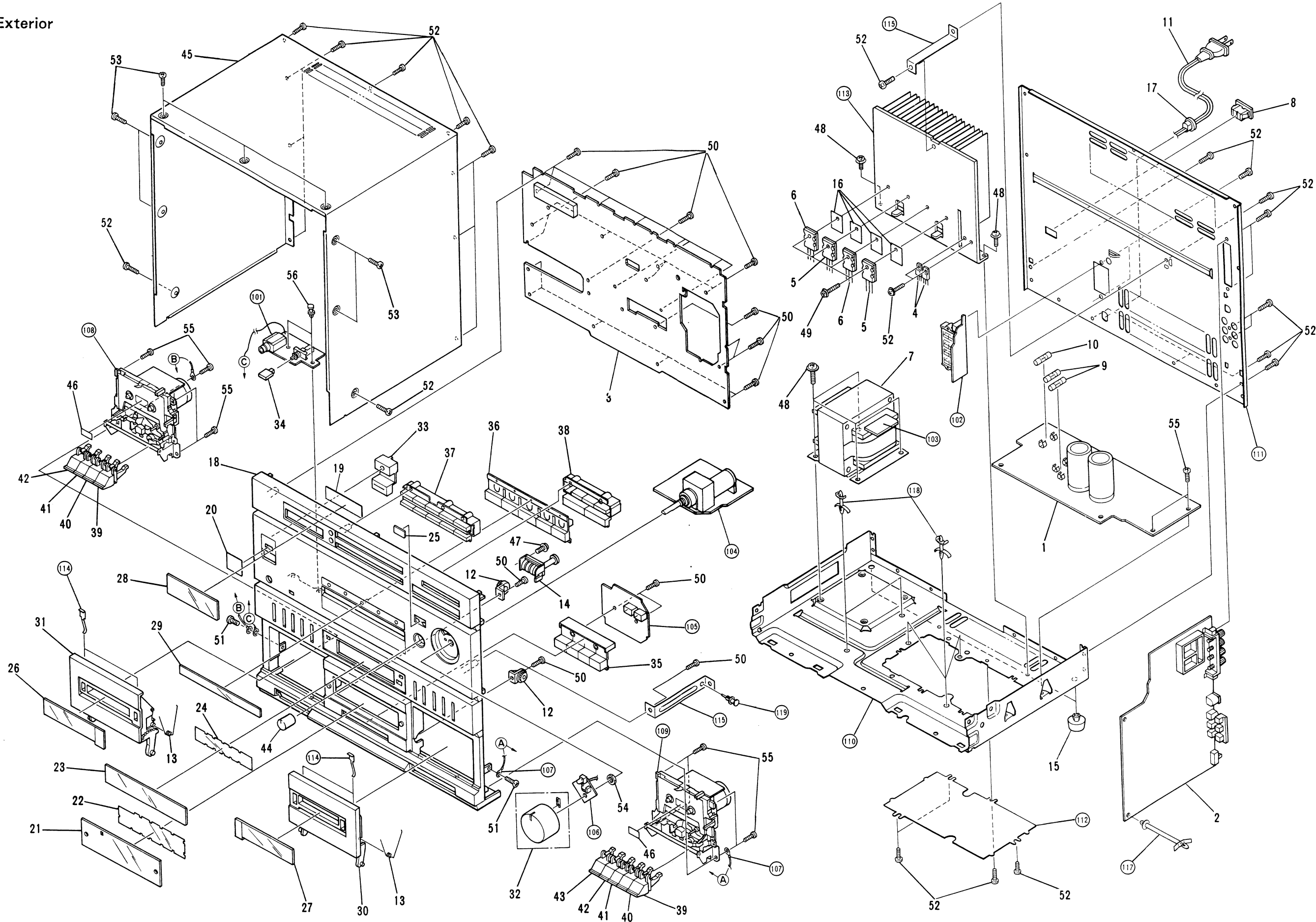
D

A

B

C

D

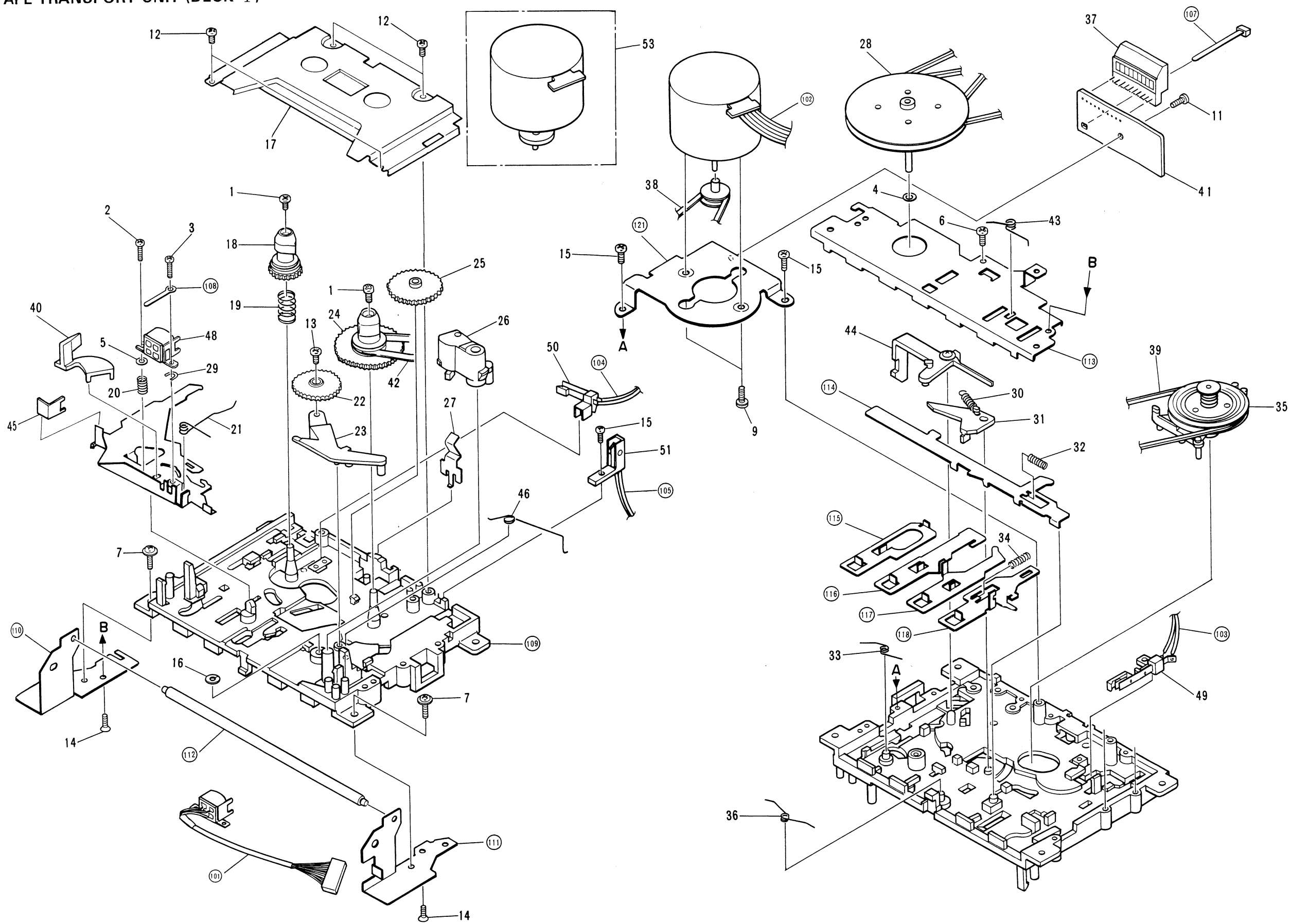


HECK I)
HECK II)

3

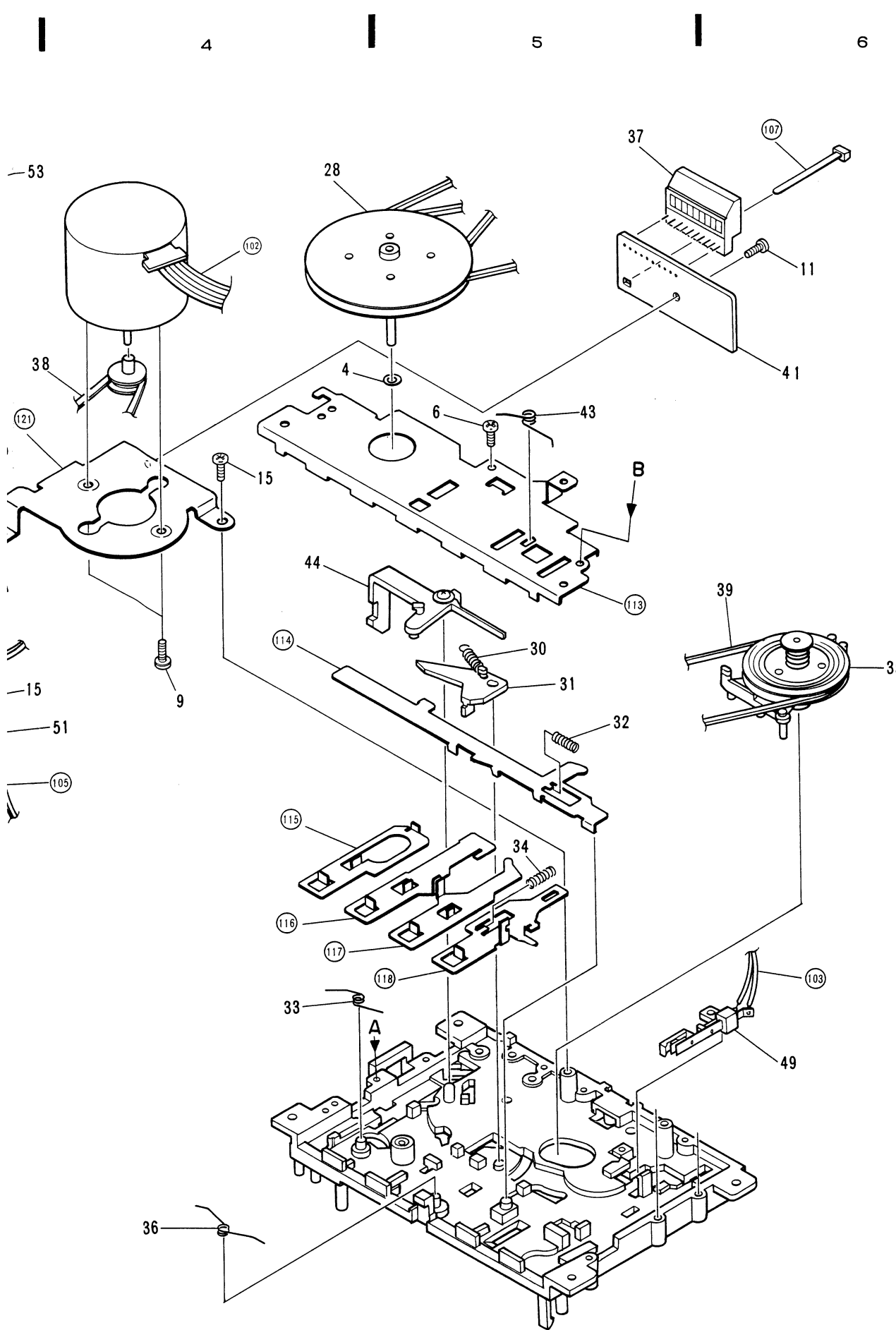
5

2.2 TAPE TRANSPORT UNIT (DECK I)



Parts list

Mark	No.
A	1
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	53



Parts list of Tape transport unit (DECK I)

Mark	No.	Parts No.	Description	Mark	No.	Parts No.	Description
A	1	AZB1165	Bush D	46	AZN1922	Spring	
	2	AZB1166	N screw	47	.....	.....
	3	AZB1167	P screw	48	AZP1036	R/P head	
	4	AZB1168	P washer	49	AZS1059	Leaf switch (MOTOR)	
	5	AZB1169	F washer	50	AZS1060	Leaf switch (MUTE)	
	6	AZB1170	Bush C	51	AZS1061	Leaf switch (CrO2)	
	7	AZB1171	D screw	52	.....	.....
	8	.....	.....	53	AZX1021	Motor assembly	
	9	AZB1173	P screw				
	10	.....	.....		
	11	AZB1176	D screw				
	12	AZB1183	L screw	101		Connector assembly	
	13	AZB1184	Bush	102		Jumper wire	
	14	AZB1190	L screw	103		Lead wire	
	15	AZB1191	L screw	104		Lead wire	
			105		Lead wire		
B	16	AZB1194	N washer				
	17	AZN1902	Mechanism cover	106		.....
	18	AZN1480	S reel	107		Nylon band	
	19	AZN1481	C spring	108		Lug plate	
	20	AZN1482	Azimuth C spring	109		Chassis assembly	
				110		Holder button	
	21	AZN1483	Pinch arm spring				
	22	AZN1484	Idler gear	111		Holder button R	
	23	AZN1485	Idler arm	112		Shaft	
	24	AZN1486	T reel assembly	113		Back plate	
25	AZN1487	F gear	114		Function lever		
			115		SE lever		
C	26	AZN1488	Pinch arm assembly				
	27	AZN1489	Cassette spring	116		FF lever	
	28	AZN1491	FW assembly W	117		REW lever	
	29	AZN1494	Spacer C	118		PLAY lever	
	30	AZN1498	T spring	119		.....
				120		.....
	31	AZN1499	S arm				
	32	AZN1500	C spring	121		Motor bracket	
	33	AZN1501	Spring	122		.....
	34	AZN1502	C spring	123		Head base B	
35	AZN1503	Power arm assembly					
D	36	AZN1504	Spring				
	37	AZN1901	Connector				
	38	AZN1506	Belt				
	39	AZN1507	Belt				
	40	AZN1508	Tape sensor				
	41	AZN1571	Main PCB				
	42	AZN1899	Counter belt				
	43	AZN1752	Spring				
	44	AZN1753	Eject arm				
	45	AZN1900	Tape guide				

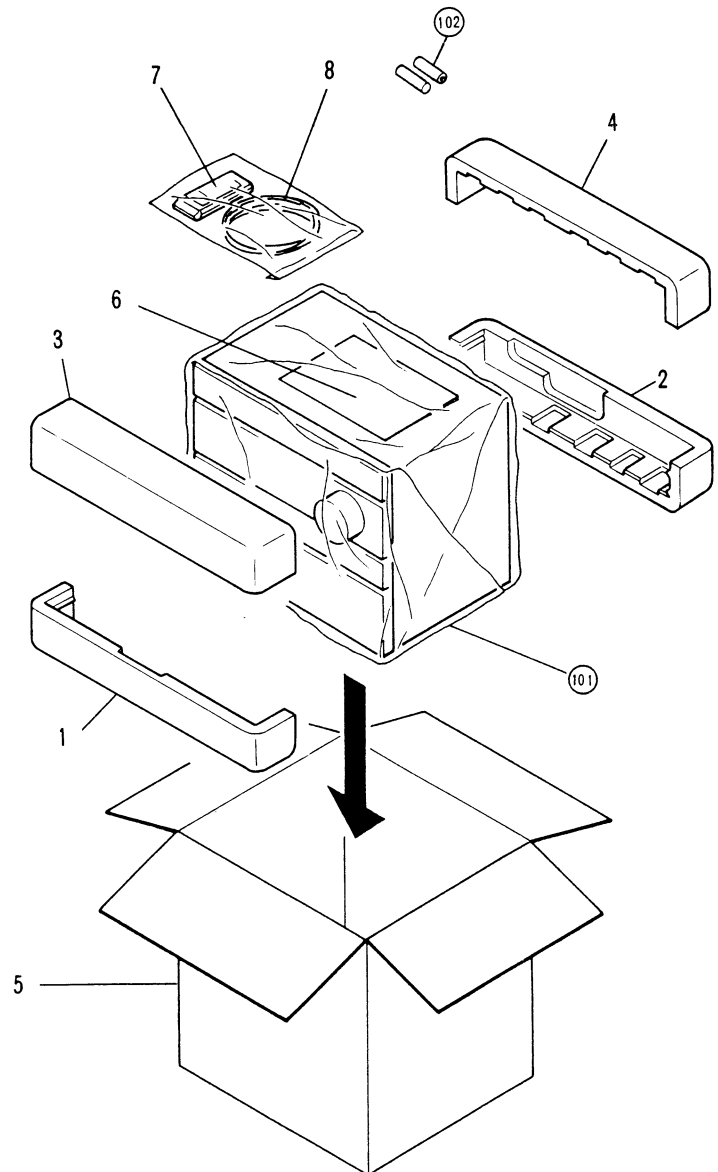
Parts list of Tape transport unit (DECK II)

Mark	No.	Parts No.	Description	Mark	No.	Parts No.	Description	
A	1	AZB1165	Bush D		51	AZS1061	Leaf switch (CrO2)	
	2	AZB1166	N screw		52	AZS1062	Leaf switch (REC)	
	3	AZB1167	P screw		53	AZX1021	Motor assembly	
	4	AZB1168	P washer					
	5	AZB1169	F washer					
	6	AZB1170	Bush C					
	7	AZB1171	D screw		101			Connector assembly
	8	AZB1172	D screw		102			Jumper wire
	9	AZB1173	P screw		103			Lead wire
	10	AZB1175	D bind screw		104			Lead wire
					105			Lead wire
	11	AZB1176	D screw					
	12	AZB1183	L screw		106			Lead wire
	13	AZB1184	Bush		107			Nylon band
	14	AZB1190	L screw		108			Lug plate
15	AZB1191	L screw	109			Chassis assembly		
B	16	AZB1194	N washer	110			Holder button	
	17	AZN1479	Mechanism cover	111			Holder button R	
	18	AZN1480	S reel	112			Shaft	
	19	AZN1481	C spring	113			Back plate	
	20	AZN1482	Azimuth C spring	114			Function lever	
				115			SE lever	
	21	AZN1483	Pinch arm spring					
	22	AZN1484	Idler gear	116			FF lever	
	23	AZN1485	Idler arm	117			REW lever	
	24	AZN1486	T reel assembly	118			PLAY lever	
	25	AZN1487	F gear	119			REC STOP lever	
				120			REC lever	
	26	AZN1488	Pinch arm assembly					
	27	AZN1489	Cassette spring	121			Motor bracket	
	28	AZN1491	FW assembly W	122			RSW lever	
	29	AZN1494	Spacer C	123			Head base B	
	30	AZN1498	T spring	124			SW plate	
	C	31	AZN1499	S arm				
		32	AZN1500	C spring				
		33	AZN1501	Spring				
34		AZN1502	C spring					
35		AZN1503	Power arm assembly					
36		AZN1504	Spring					
37		AZN1505	Connector					
38		AZN1506	Belt					
39		AZN1507	Belt					
40		AZN1508	Tape sensor					
D	41	AZN1571	Main PCB					
	42	AZN1572	Interlock arm					
	43	AZN1752	Spring					
	44	AZN1753	Eject arm					
	45	AZN1903	Spring					
46	AZN1922	Spring						
47	AZP1025	E head						
48	AZP1036	R/P head						
49	AZS1059	Leaf switch (MOTOR)						
50	AZS1060	Leaf switch (MUTE)						

3. PACKING

Parts list of Packing

Mark	No.	Parts No.	Description
	1	AHA1242	Front pad A
	2	AHA1243	Rear pad A
	3	AHA1244	Front pad B
	4	AHA1245	Rear pad B
	5	AHD1645	Packing case
	6	ARB1180	Operating instructions (English)
	7	AXD1048	Remote control unit
	8	AEA1007	Antenna set
	101		Sheet
	102		Battery



4. SCHEMATIC DIAGRAM

1. RESISTORS:
Indicated in Ω , $\frac{1}{2}W$, $\frac{1}{4}W$, $\pm 5\%$ tolerance unless otherwise noted k : k Ω , M : M Ω , (F) : $\pm 1\%$, (G) : $\pm 2\%$, (K) : $\pm 10\%$ (M) ; $\pm 20\%$ tolerance

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

3. VOLTAGE, CURRENT:
Signal voltage at (W + W Ω)output (1kHz)
DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
mA : DC current at no input signal

4. OTHERS:

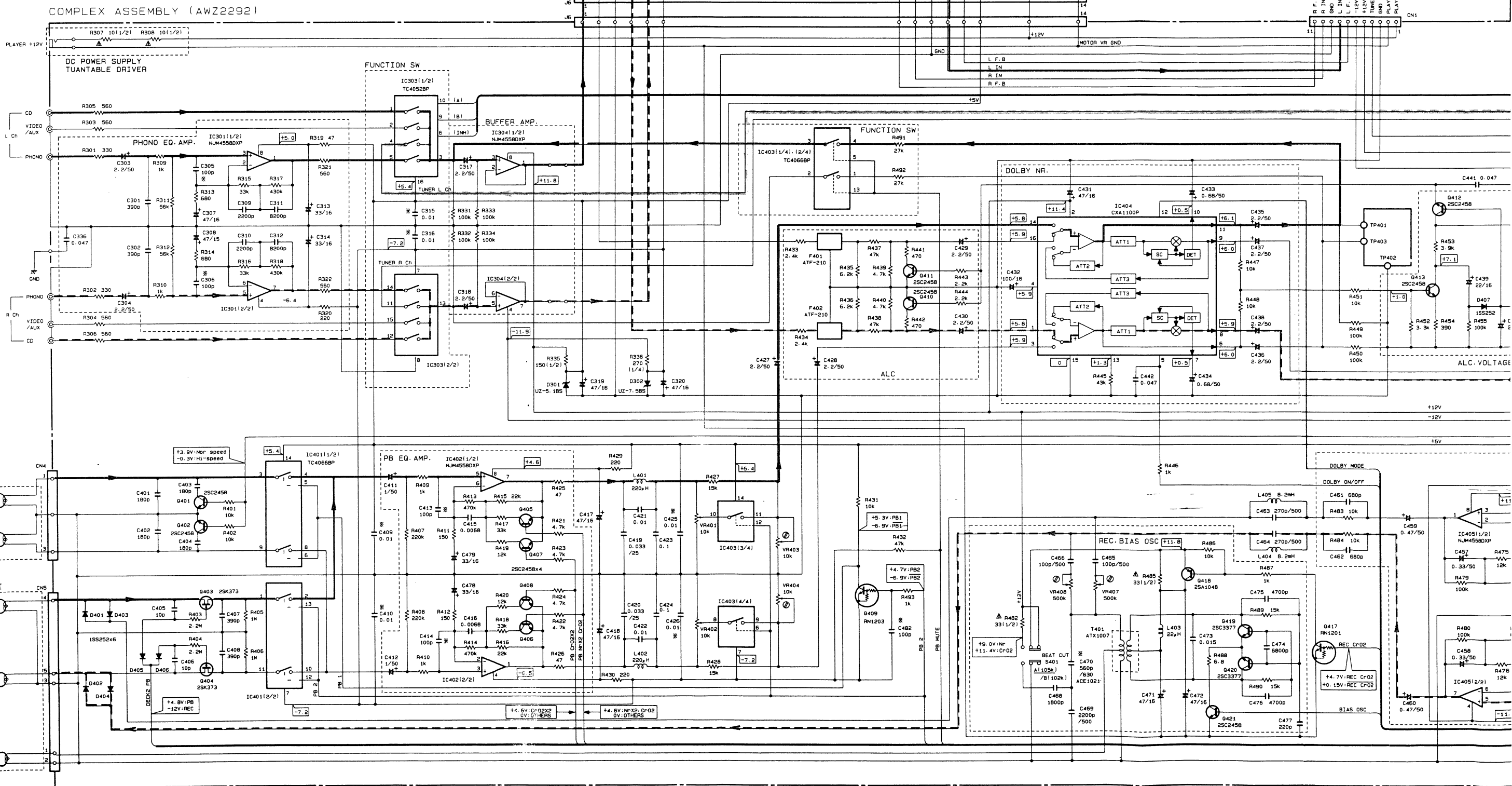
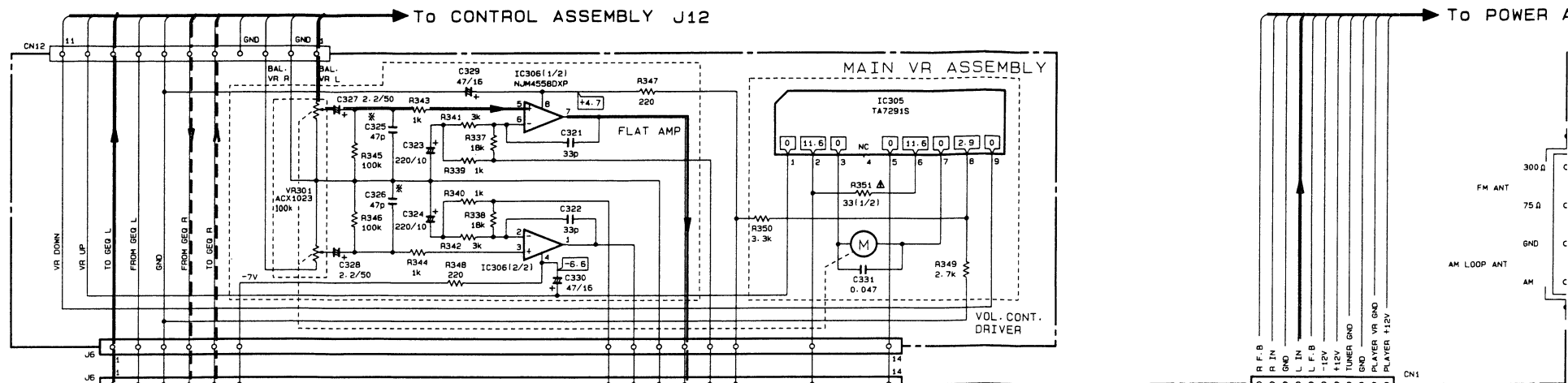
→ Signal route.

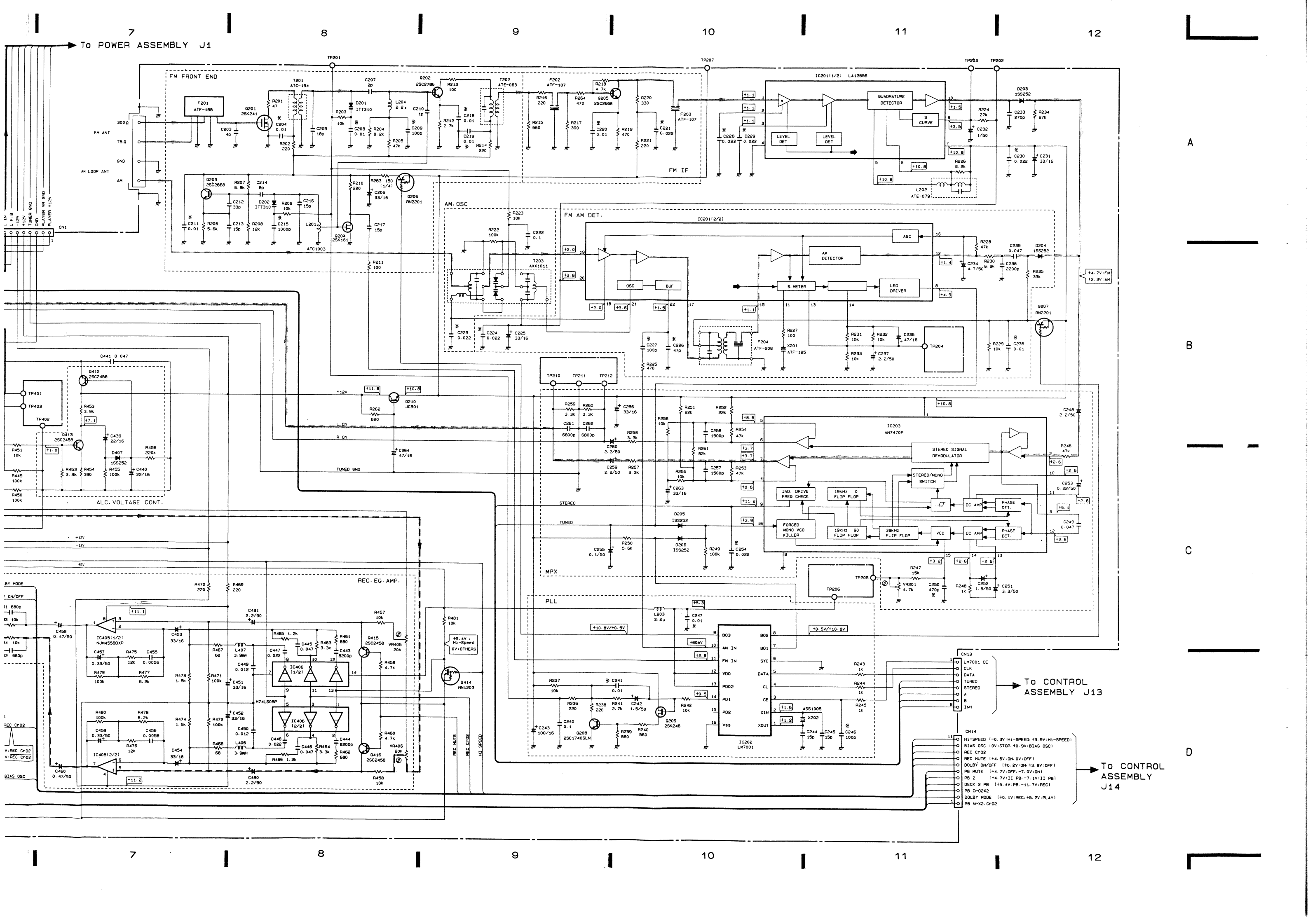
⊗ Adjusting point.

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 capacitors and resistors have parts numbers.

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





A

B

C

D

TO CONTROL ASSEMBLY J13

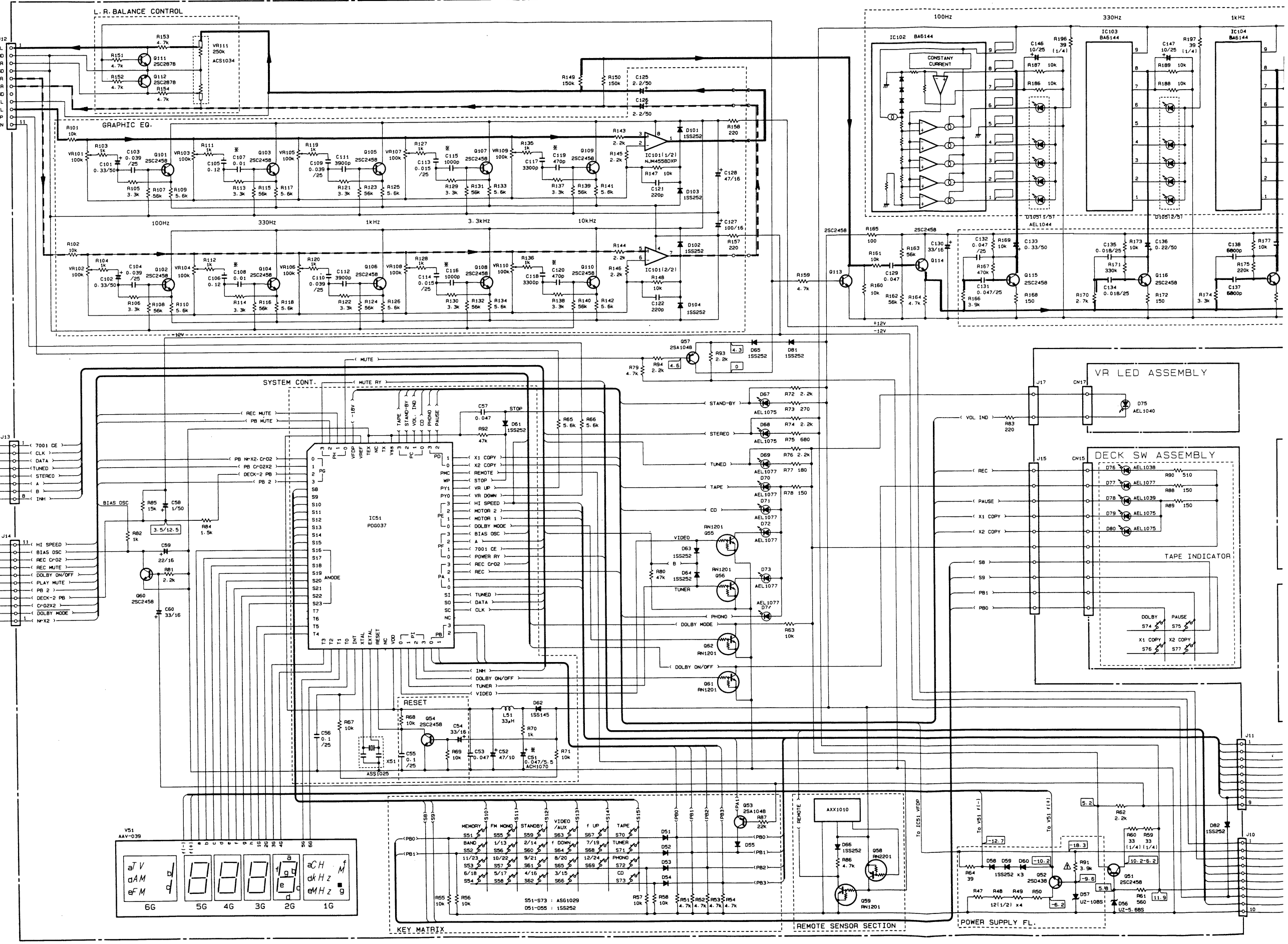
TO CONTROL ASSEMBLY J14

CONTROL ASSEMBLY (AWZ2294)

TO MAIN VR ASSEMBLY CN12

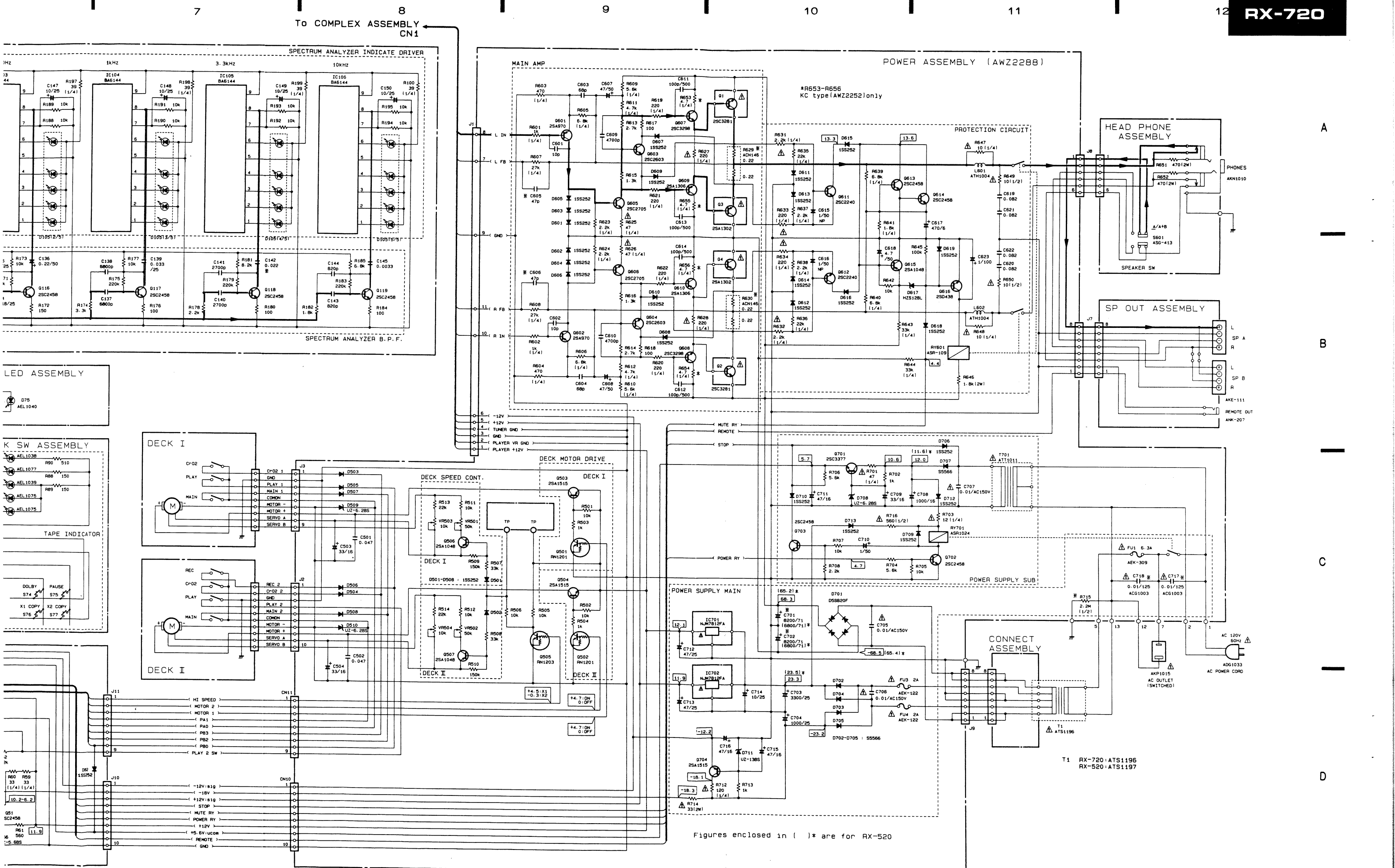
COMPLEX ASSEMBLY CN13

COMPLEX ASSEMBLY CN14



1 2 3 4 5 6

1 2 3 4 5 6



To COMPLEX ASSEMBLY CN1

SPECTRUM ANALYZER INDICATE DRIVER

MAIN AMP

POWER ASSEMBLY (AWZ2288)

HEAD PHONE ASSEMBLY

SP OUT ASSEMBLY

DECK I

DECK II

DECK MOTOR DRIVE

DECK SPEED CONT.

POWER SUPPLY MAIN

POWER SUPPLY SUB

CONNECT ASSEMBLY

Figures enclosed in () * are for RX-520

T1 RX-720:ATS1196
RX-520:ATS1197

A

B

C

D

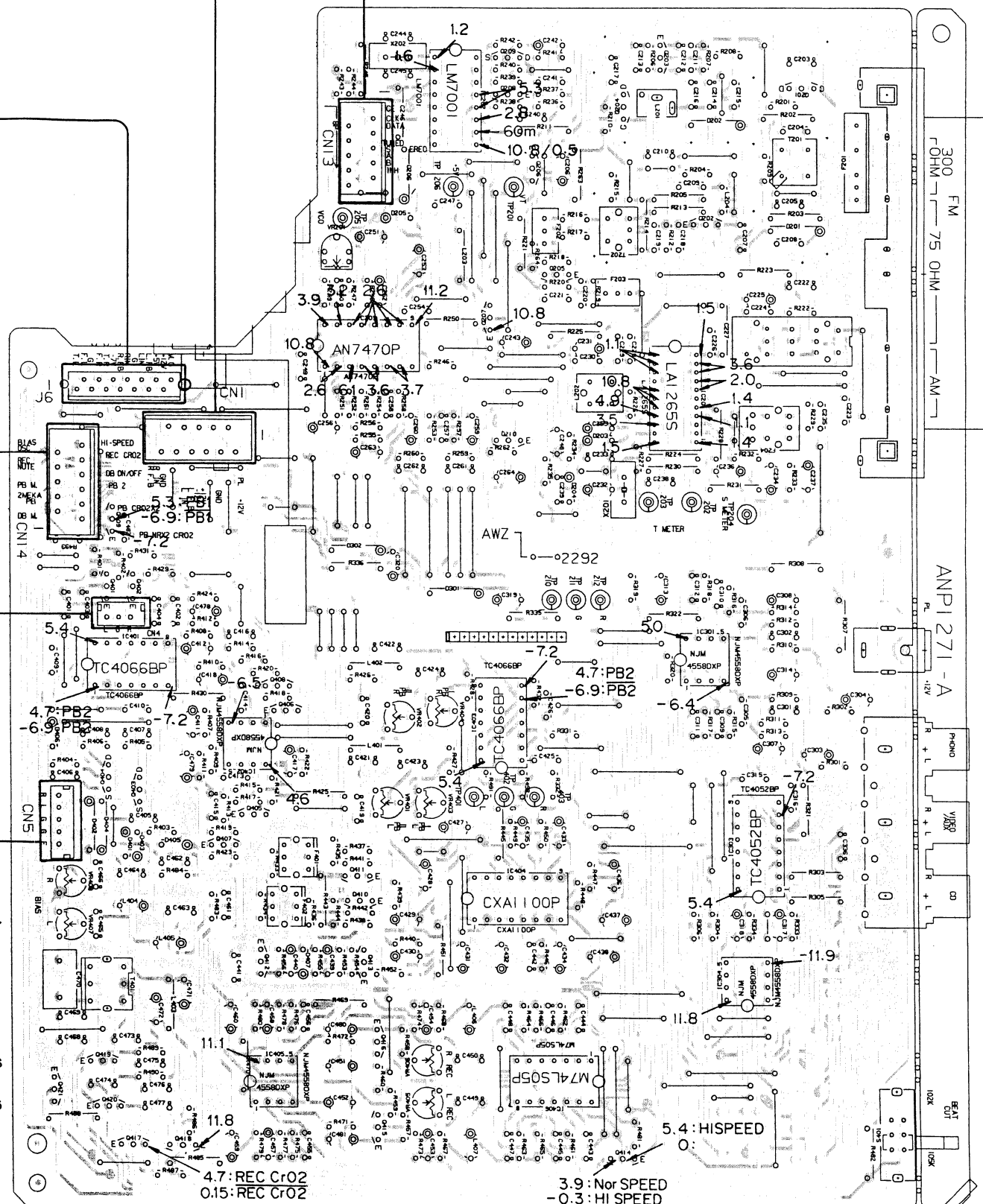
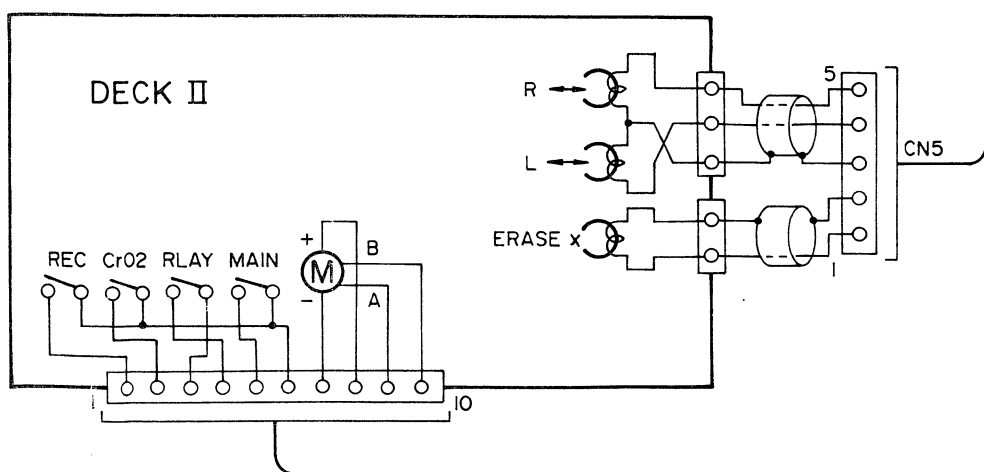
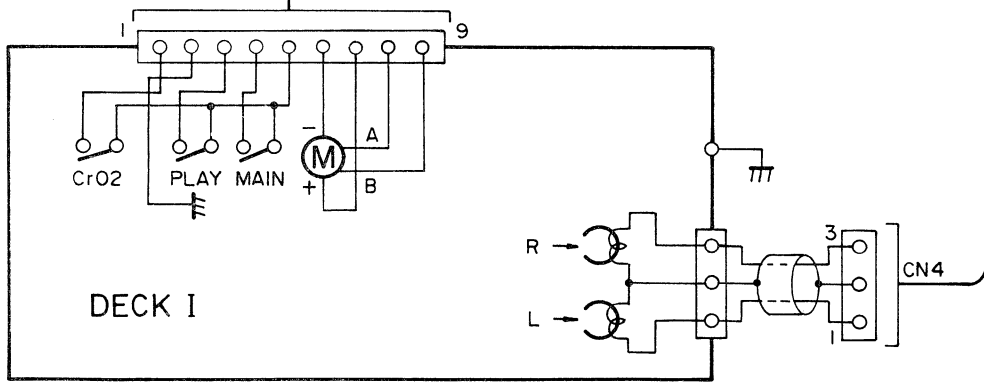
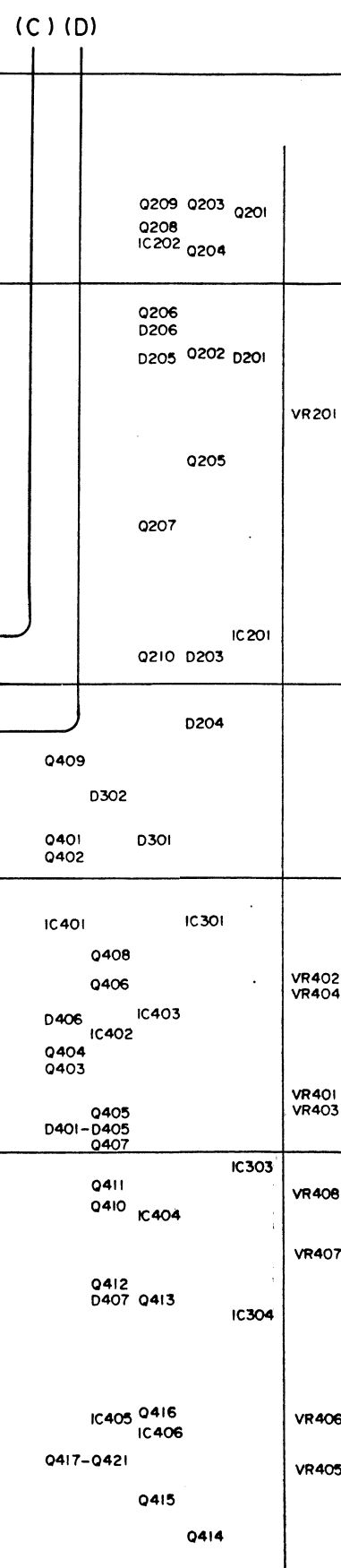
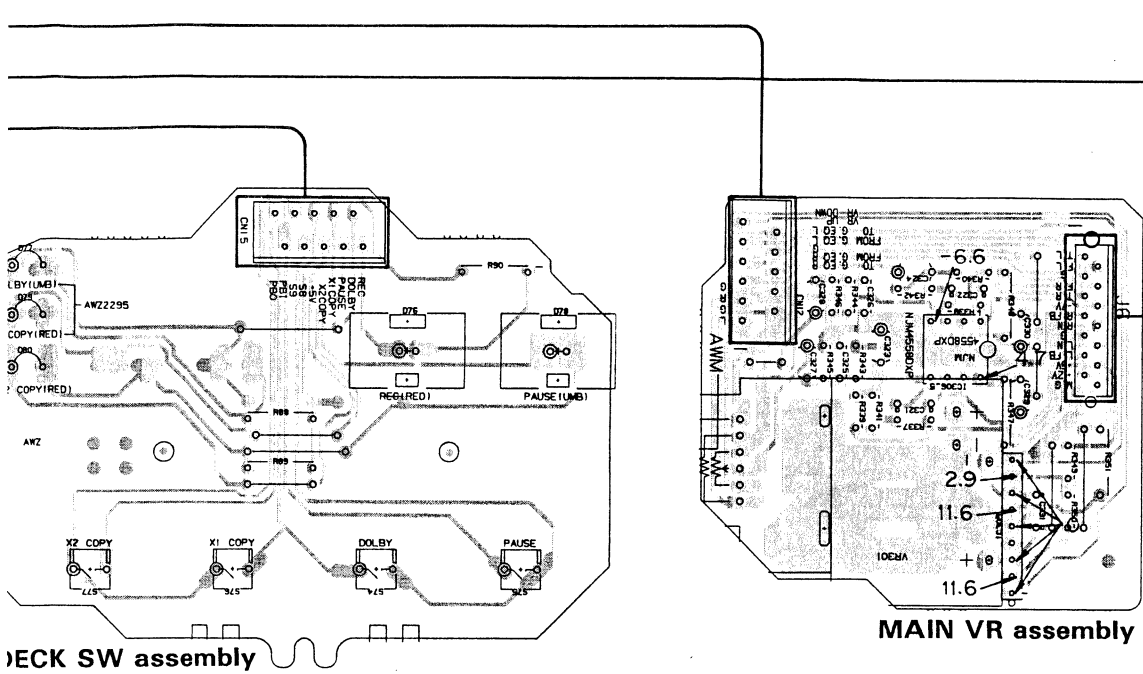
(A)

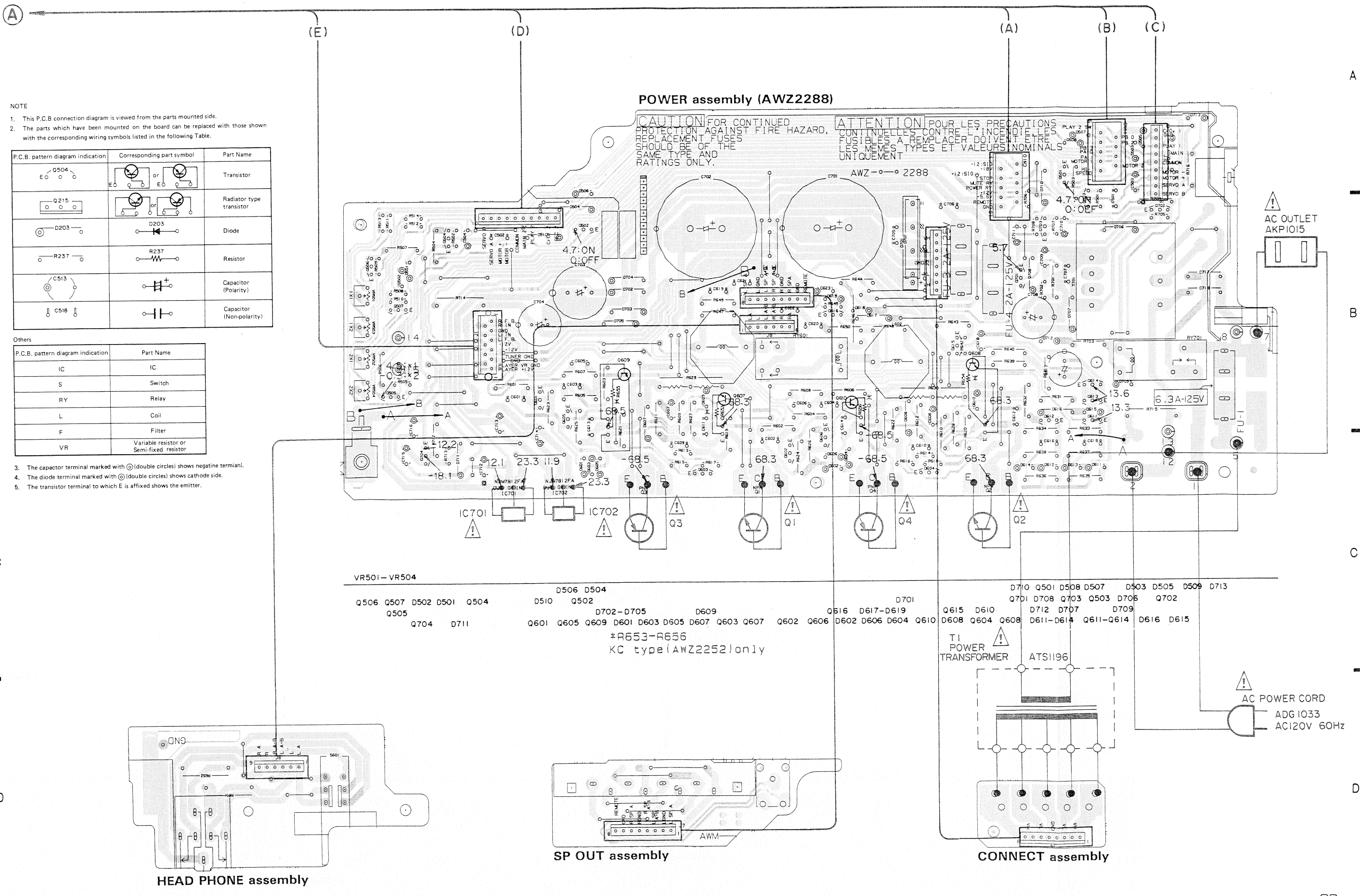
A

B

C

D





NOTE

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

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 EO	or	Transistor
Q215		Radiator type transistor
D203		Diode
R237		Resistor
C513		Capacitor (Polarity)
C518		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.

VR501-VR504

D506 D504

Q506 Q507 D502 D501 Q504 D510 Q502 D702-D705 D609 Q516 D617-D619 Q615 D610 Q701 D708 Q703 Q503 D706 Q702 D712 D707 D709 Q608 Q604 Q608 D611-D614 Q611-Q614 D616 D615

*R653-R656
KC type (AWZ2252) only

A

B

C

D

(A) (B) (C)

(D) (E)

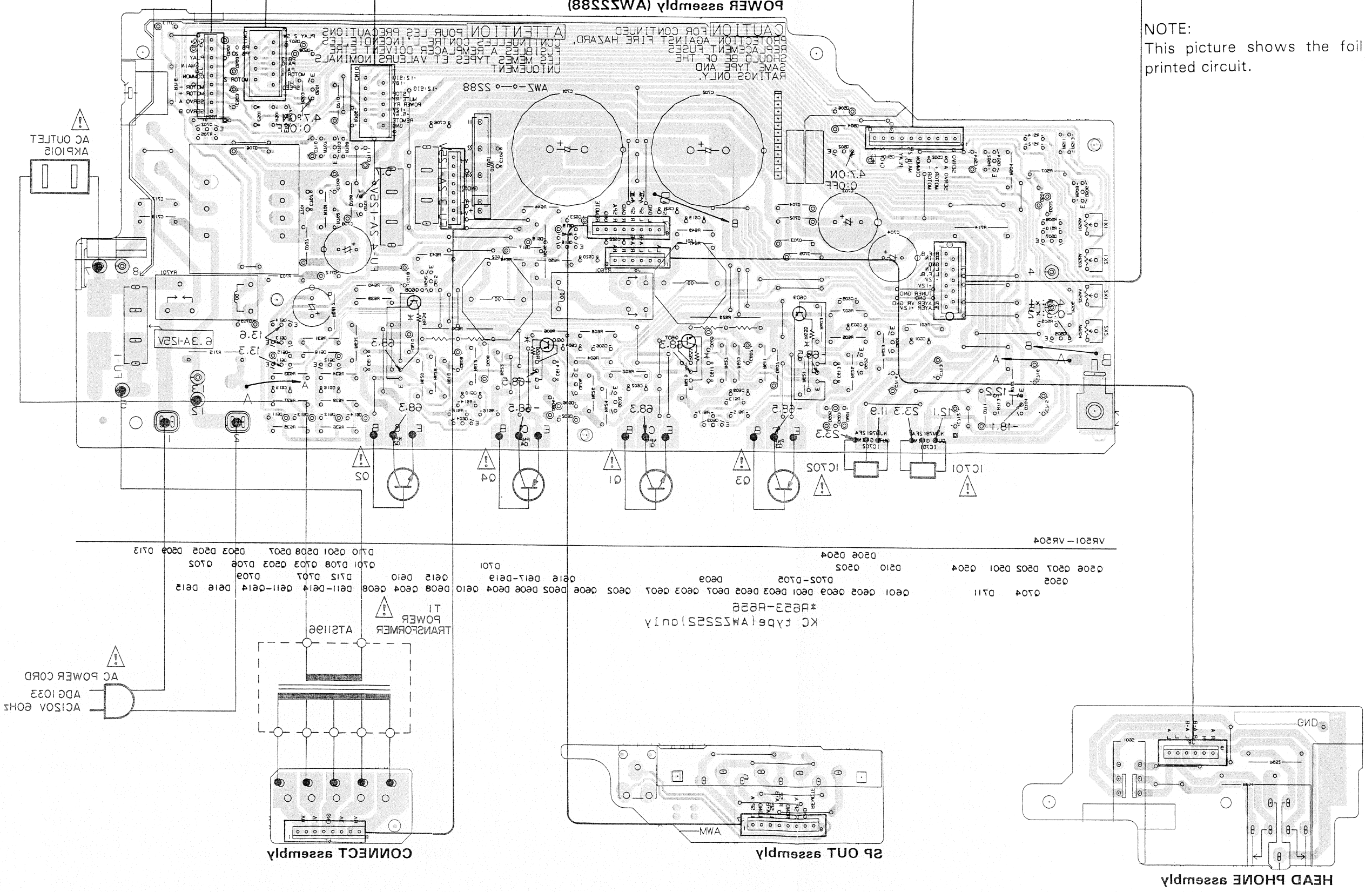
A

A

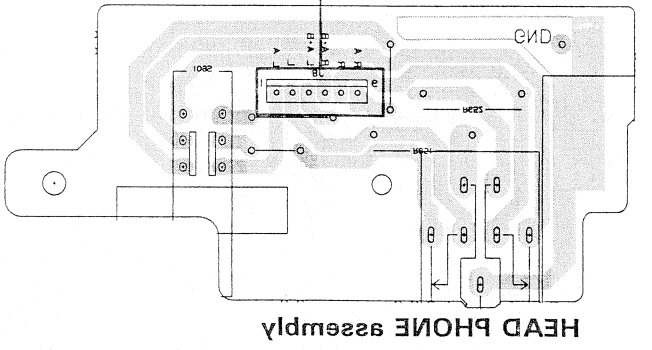
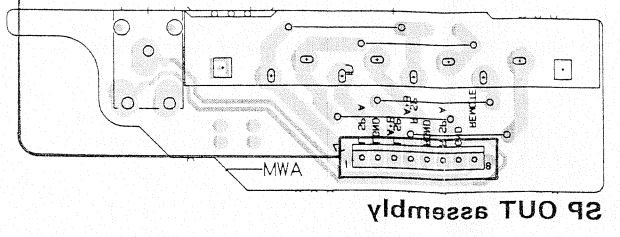
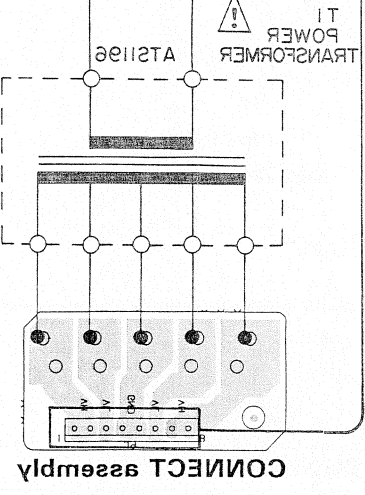
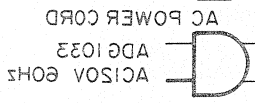
B

C

D



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



0204 D111	0201 0202 0203 0204	0205 0206 0207	0208 0209 0210 0211	0212 0213 0214 0215 0216 0217 0218 0219 0220 0221 0222 0223 0224 0225 0226 0227 0228 0229 0230 0231 0232 0233 0234 0235 0236 0237 0238 0239 0240 0241 0242 0243 0244 0245 0246 0247 0248 0249 0250 0251 0252 0253 0254 0255 0256 0257 0258 0259 0260 0261 0262 0263 0264 0265 0266 0267 0268 0269 0270 0271 0272 0273 0274 0275 0276 0277 0278 0279 0280 0281 0282 0283 0284 0285 0286 0287 0288 0289 0290 0291 0292 0293 0294 0295 0296 0297 0298 0299 0300
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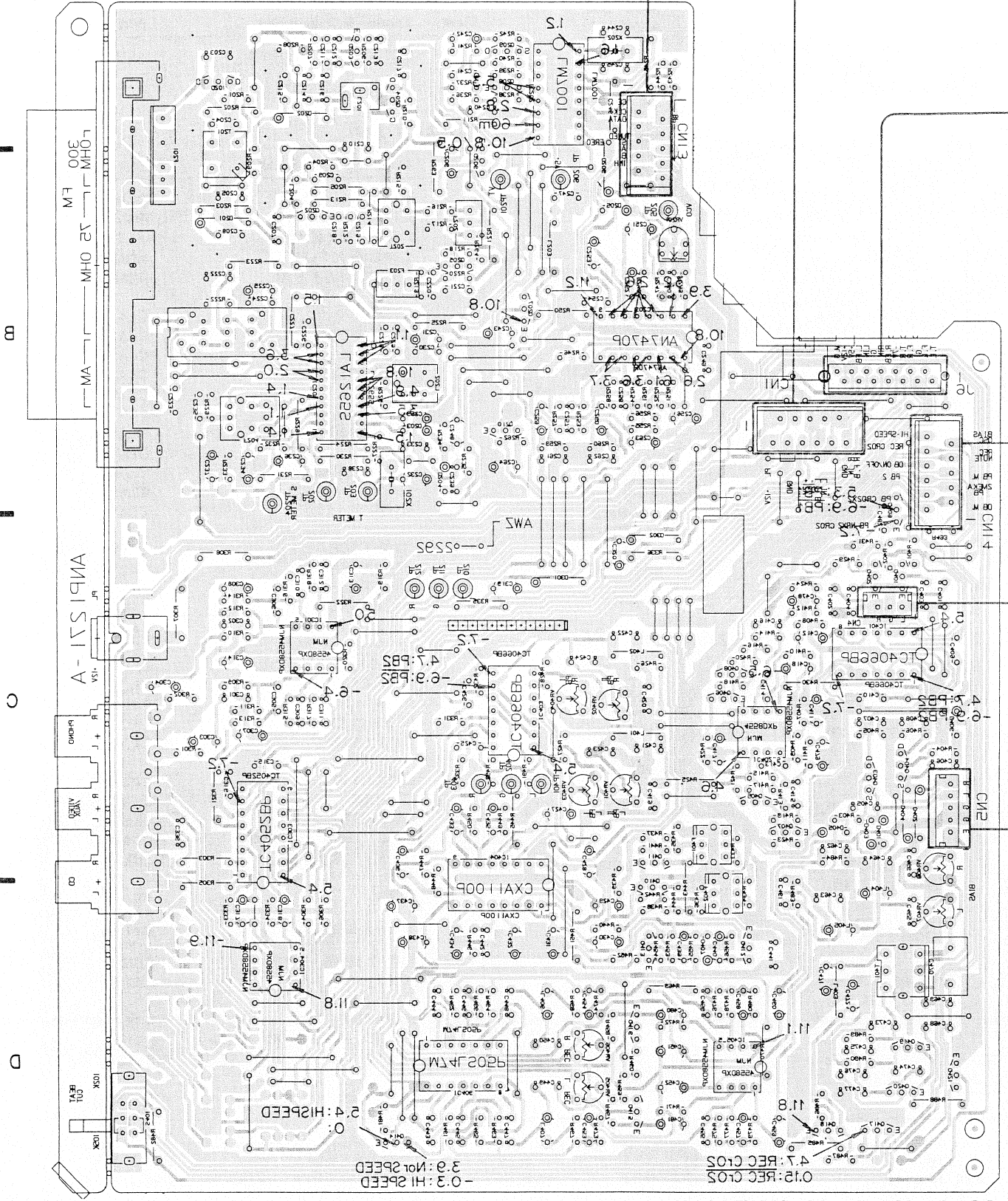
A

A

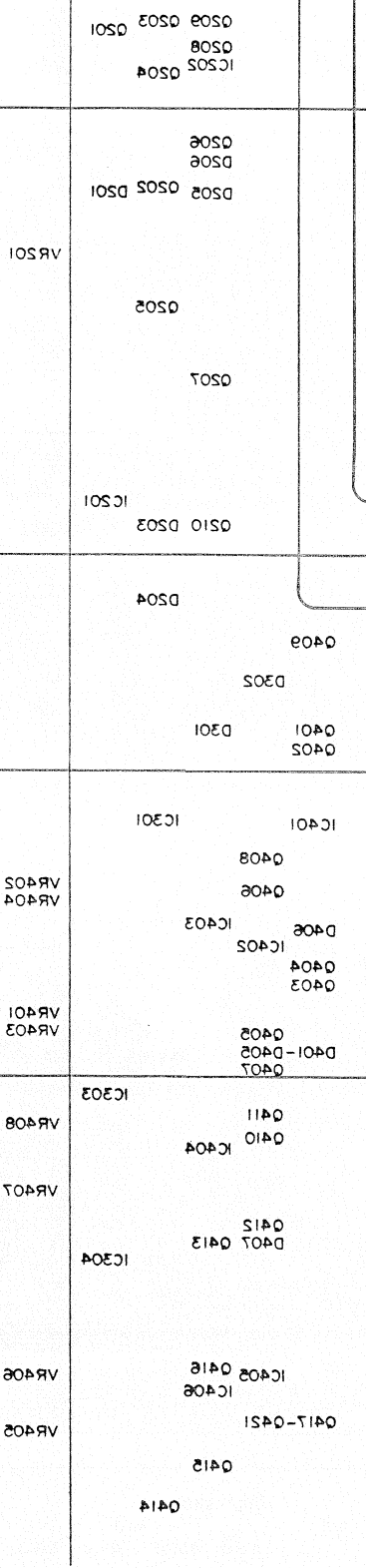
B

C

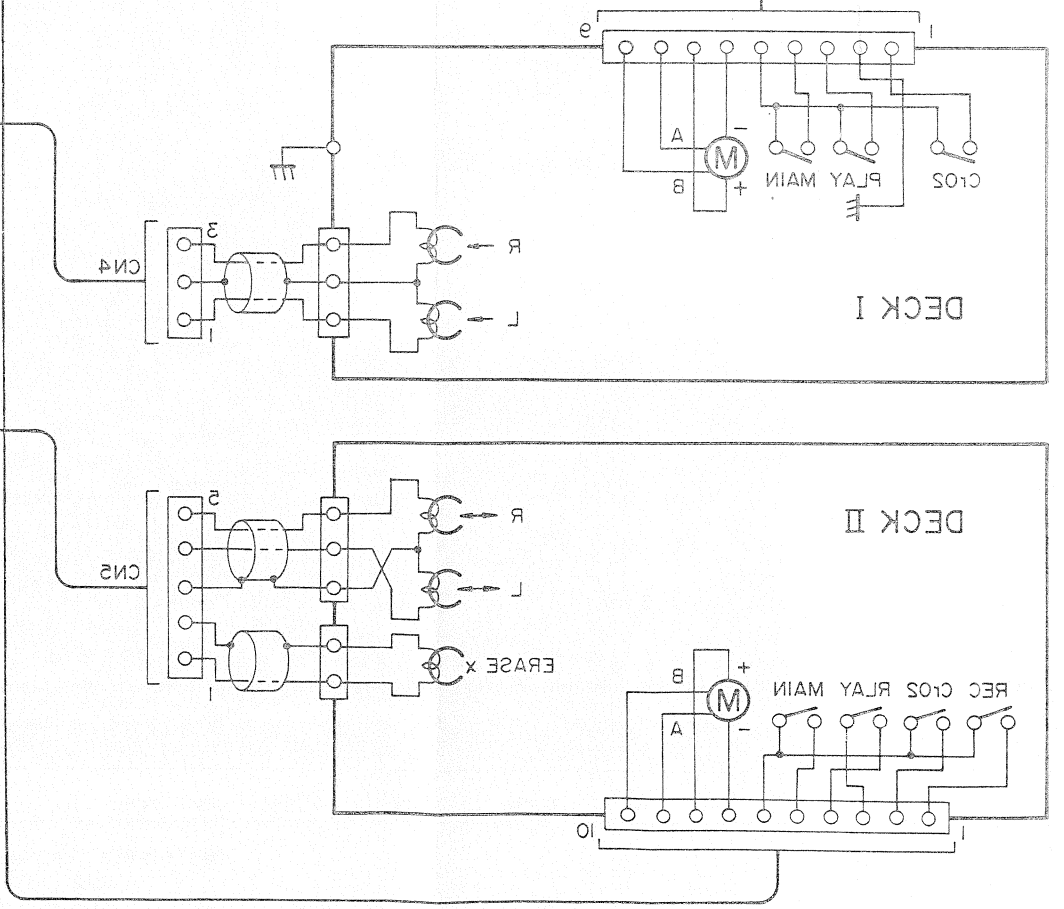
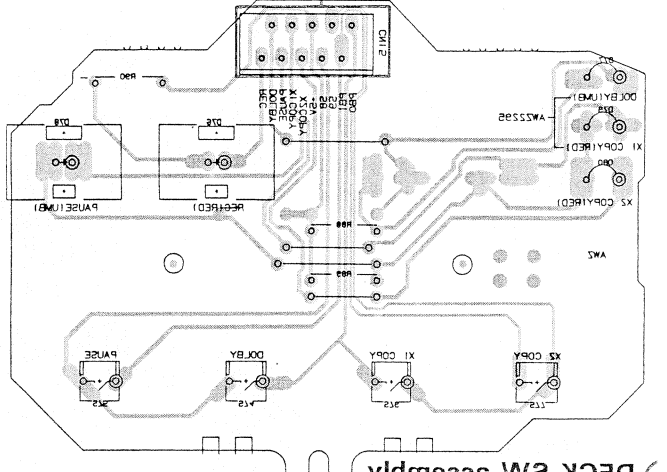
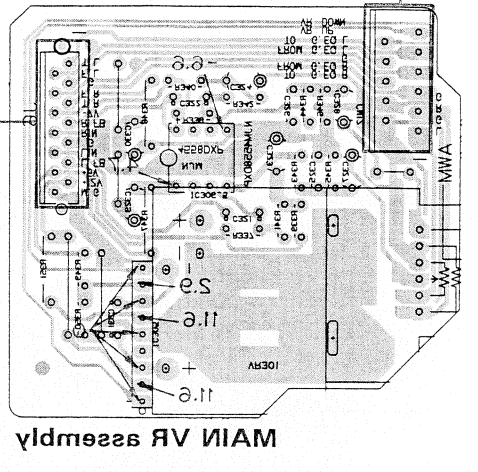
D



COMPLEX assembly (WAZ333)



(C) (D)



6. ELECTRICAL PARTS LIST

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

Miscellaneous parts

P.C. BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.
	Power assembly	AWZ2288
	Head phone assembly	
	SP Out assembly	
	Connect assembly	
	Complex assembly	AWZ2292
	Main VR assembly	
	Control assembly	AWZ2294
	DECK SW assembly	
	VR LED assembly	
	Pattern assembly	
Δ	IC701,IC702 Regulator IC	NJM7812FA
Δ	Q3,Q4 Transistor	2SA1302
Δ	Q1,Q2 Transistor	2SC3281
Δ	T1 Power transformer (AC120V)	ATS1196
Δ	AC Outlet (1P)	AKP1015
Δ	FU2,FU3 Small type fuse (2A/125V)	AEK-122
Δ	FU1 Fuse (6.3A/125V)	AEK-309
Δ	AC Power cord	ADG1033
	Strain relief	AEP-113
	Leaf switch (MOTOR)	AZN1509
	Leaf switch (MUTE)	AZS1060
	Leaf switch (CrO2)	AZS1061
	Leaf switch (REC)	AZS1062
	Motor assembly	AZX1021
	R/P Head	AZP1036
	E Head	AZP1025

POWER assembly (AWZ2288)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	Q501,Q502	RN1201
	Q505	RN1203
	Q506,Q507,Q615	2SA1048
	Q609,Q610	2SA1306
	Q503,Q504,Q704	2SA1515
	Q601,Q602	2SA970
	Q611,Q612	2SC2240
	Q613,Q614,Q702,Q703	2SC2458
	Q603,Q604	2SC2603
	Q605,Q606	2SC2705
	Q607,Q608	2SC3298
	Q701	2SC3377
	Q616	2SD438
	D701	D5SB20F
	D617	HZS12BL
	D702-D705,D707	S5566
	D711 Zener diode	UZ-13BS
	D708,D509,D510 Zener diode	UZ-6.2BS
	D501-D508,D601-D616,D618, D619,D706,D709,D710,D712, D713	1SS252

COILS & TRANSFORMER

Mark	Symbol & Description	Part No.
	L601,L602 AF Choke coil	ATH1004
Δ	T701 Power transformer	ATT1011

RELAIIES

Mark	Symbol & Description	Part No.
	RY601	ASR-109
	RY701	ASR1024

CAPACITORS

Mark	Symbol & Description	Part No.
Δ	C717,C718 (0.01 μ F/AC125V)	ACG1003
Δ	C705-C707 (0.01 μ F/AC150V)	ACG1005
	C605,C606 (47p)	ACG1016
	C701,702 (8200/71)	ACH1071
	C611-614	CCCSL101K500
	C601,C602	CCMSL100D50
	C603,C604	CCMSL680J50
	C615,C616	CEANP010M50
	C623	CEASO10M100
	C710	CEASO10M50
	C714	CEAS100M25
	C708	CEAS102M16
	C704	CEAS102M25
	C503,C504,C709	CEAS330M16
	C703	CEAS332M25
	C618	CEAS4R7M50
	C711,C715,C716	CEAS470M16
	C712,C713	CEAS470M25
	C607,C608	CEAS470M50
	C617	CEAS471M6
	C619-C622	CFTXA823J50
	C609,C610	CKCYB472K50
	C501,C502	CKDYF473Z50

RESISTORS

Mark	Symbol & Description	Part No.
	VR503,VR504 (10k)	VRTM6H103
	VR501,VR502 (50k)	VRTM6H503
	R629,R630 (0.22 μ F)	ACN-146
Δ	R715 (2.2M)	ACN-208
Δ	R649,R650,R716	RD1/2PMF \square \square \square J
Δ	R631-R634,R701,R703,R712	RD1/4PMF \square \square \square J
Δ	R601,R602,R605-R612, R619-R624,R635-R641,R643, R644	RD1/4PM \square \square \square J
Δ	R625-R628,R647,R648,R603, R604	RFA1/4PS \square \square \square J
	R646,R714	RS2LMF \square \square \square J
	Other resistors	RD1/8PM \square \square \square J

HEAD PHONE assembly

SWITCH

Mark	Symbol & Description	Part No.
	S601 Push switch (SPEAKERS)	ASG-413

RESISTORS

Mark	Symbol & Description	Part No.
	R651,R652	RS2LMF471J

OTHERS

Mark	Symbol & Description	Part No.
	Jack (HEAD PHONE)	AKN1010

SP OUT assembly

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 8P (SPEAKER)	AKE-111
	Mini jack (REMOTE OUT)	AKN-207

CONNECT assembly

No parts are supplied with the CONNECT assembly.

COMPLEX assembly (AWZ2292)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC203	AN7470P
	IC404	CXA1100P
	IC201	LA1265S
	IC202	LM7001
	IC406	M74LS05P
	IC301,IC304,IC402,IC405	NJM4558DXP
	IC303	TC4052BP
	IC401,IC403	TC4066BP
	Q210	JC501
	Q417	RN1201
	Q409,Q414	RN1203
	Q206,Q207	RN2201
	Q418	2SA1048
	Q208	2SC1740SLN
	Q401,Q402,Q405-Q408, Q410-Q413,Q415,Q416,Q421	2SC2458
	Q203,Q205	2SC2668
	Q202	2SC2786
	Q419,Q420	2SC3377
	Q204	2SK161
	Q201	2SK241
	Q209	2SK246
	Q403,Q404	2SK373
	D201,D202	ITT310
	D301 Zener diode	UZ-5.1BS
	D302 Zener diode	UZ-7.5BS
	D203-D206,D401-D407	1SS252

COILS & TRANSFC

Mark	Symbol & Des
	X202 Crystal
	X201 Cerami
	T201 FM RF
	T202 FM Co
	T401 Bias O
	L201 FM Coi
	L202 FM Det
	L203,L204 A
	L403 Axial in
	L401,L402 A
	L406,L407 Ir
	L404,L405 Ir
	F202,F203 F
	F201 FM Bar
	F204 AM Ce
	F401,F402 C

SWITCH

Mark	Symbol & De
	S401 Slide s

CAPACITORS

Mark	Symbol & De
	C470 (560p/t
	C250 (470p)
	C226 (47p)
	C209,C227,C
	C413,C414,C
	C215 (1000p
	C204,C208,C
	C235,C241,C
	C409,C410,C
	C221,C223,C
	C254 (0.022
	C465,C466
	C401-C404
	C463,C464
	C210
	C207
	C205
	C477
	C233
	C216
	C203
	C214
	C213,C217,C
	C212
	C405,C406
	C248

COILS & TRANSFORMERS

Mark	Symbol & Description	Part No.
X202	Crystal resonator	ASS1005
X201	Ceramic resonator	ATF-125
T201	FM RF transformer	ATC-194
T202	FM Coupling transformer	ATE-063
T401	Bias OSC transformer	ATX1007
L201	FM Coil	ATC1003
L202	FM Detector coil	ATE-079
L203,L204	Axial inductor (2.2μH)	LAU2R2M
L403	Axial inductor (22μH)	LAU220K
L401,L402	Axial inductor (220μH)	LAU221K
L406,L407	Inductor (3.9mH)	LTA392J
L404,L405	Inductor (8.2mH)	LTA822J
F202,F203	FM Ceramic filter	ATF-107
F201	FM Band pass filter	ATF-155
F204	AM Ceramic filter	ATF-208
F401,F402	Dolby filter	ATF-210

SWITCH

Mark	Symbol & Description	Part No.
S401	Slide switch (BEAT CUT)	ASH1009

CAPACITORS

Mark	Symbol & Description	Part No.
C470	(560p/630)	ACE1021
C250	(470p)	ACE1039
C226	(47p)	ACG1016
C209,C227,C246,C305,C306,C413,C414,C482	(100p)	ACG1017
C215	(1000p)	ACG1020
C204,C208,C211,C218-C220,C235,C241,C247,C315,C316,C409,C410,C425,C426 (0.01μF)		ACG1021
C221,C223,C224,C228-C230,C254 (0.022μF)		ACG1022
C465,C466		CCCSL101K500
C401-C404		CCCSL181J50
C463,C464		CCCSL271K500
C210		CCDCH010C50
C207		CCDCH020C50
C205		CCDRH180J50
C477		CCDSL221J50
C233		CCDSL271J50
C216		CCDTH150J50
C203		CCMCH040C50
C214		CCMCH080D50
C213,C217,C244,C245		CCMCH150J50
C212		CCMCH330J50
C405,C406		CCMSL100D50
C248		CEANP2R2M50

Mark	Symbol & Description	Part No.
C253		CEASR22M50
C457,C458		CEASR33M50
C459,C460		CEASR47M50
C433,C434		CEASR68M50
C255		CEASOR1M50

Mark	Symbol & Description	Part No.
C232,C411,C412		CEASO10M50
C242,C252		CEAS1R5M50
C243,C432		CEAS101M16
C237,C259,C260,C303,C304,C317,C318,C427-C430,C435-C438,C480,C481		CEAS2R2M50

Mark	Symbol & Description	Part No.
C439,C440		CEAS220M16
C251		CEAS3R3M50
C206,C225,C231,C256,C263,C313,C314,C451-C454,C478,C479		CEAS330M16

Mark	Symbol & Description	Part No.
C234		CEAS4R7M50
C236,C264,C307,C308,C319,C320,C417,C418,C431,C471,C472		CEAS470M16
C421,C422		CFTXA103J50

Mark	Symbol & Description	Part No.
C222,C240,C423,C424		CFTXA104J50
C449,C450		CFTXA123J50
C473		CFTXA153J50
C447,C448		CFTXA223J50
C445,C446		CFTXA473J50

Mark	Symbol & Description	Part No.
C468		CKCYB182K50
C469		CKCYB222K500
C475,C476		CKCYB472K50
C261,C262,C474		CKCYB682K50
C311,C312,C443,C444		CKCYB822K50

Mark	Symbol & Description	Part No.
C249,C336,C441		CKCYF473Z50
C419,C420		CKCYX333M25
C238,C309,C310		CKDYB222K50
C239,C442		CKDYF473Z50
C257,C258		CKMYB152K50

Mark	Symbol & Description	Part No.
C301,C302,C407,C408		CKMYB391K50
C461,C462		CKMYB681K50
C455,C456		CQMA562K50
C415,C416		CQMA682J50

RESISTORS

Mark	Symbol & Description	Part No.
VR201 (4.7k)		ACP1024
VR401-VR404 (10k)		VRTM6V103
VR405,VR406 (20k)		VRTM6V203
VR407,VR408 (500k)		VRTM6V504
R307,R308		RD1/2PMF100J
R335,R482,R485		RD1/2PM□□□J
R263,R336		RD1/4PM□□□J
Other resistors		RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 4P (ANTENNA)	AKA1009
	Pin Jack 6P (PHONO,VIDEO/AUX,CD)	AKB1023
	DC Jack (PLAYER +12V)	AKN-203
	AMRF tuning block	AXX1011

MAIN VR assembly SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC306	NJM4558DXP
	IC305	TA7291S

CAPACITORS

Mark	Symbol & Description	Part No.
	C325,C326 (47p)	ACG1016
	C321,C322	CCMSL330J50
	C327,C328	CEAS2R2M50
	C323,C324	CEAS221M10
	C329,C330	CEAS470M16
	C331	CKCYF473Z50

RESISTORS

Mark	Symbol & Description	Part No.
	VR301 (100k)	ACX1023
	R351	RD1/2PM330J
	Others resistors	RD1/8PM□□□J

CONTROL assembly (AWZ2294) SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC102-IC106	BA6144
	IC101	NJM4558DXP
	IC51	PDG037
	Q55,Q56,Q59,Q61,Q62	RN1201
	Q58	RN2201
	Q53,Q57	2SA1048
	Q51,Q54,Q60,Q101-Q110,Q113-Q119	2SC2458
	Q111,Q112	2SC2878
	Q52	2SD438
	D105 LED assembly	AEL1044
	D67,D68 LED	AEL1075
	D69-D74 LED	AEL1077
	D57 Zener diode	UZ-10BS
	D56 Zener diode	UZ-5.6BS
	D62	1SS145
	D51-D55,D58-D61,D63-D66,D81,D82,D101-D104	1SS252

SWITCHES

Mark	Symbol & Description	Part No.
	S51-S73 Tact switch	ASG1029

COILS

Mark	Symbol & Description	Part No.
	X51 Ceramic resonator	ASS1025
	L51 Axial inductor (33μH)	LAU330K

CAPACITORS

Mark	Symbol & Description	Part No.
	C119,C120 (470p)	ACG1019
	C115,C116 (1000p)	ACG1020
	C107,C108 (0.01μF)	ACG1021
	C142 (0.022μF)	ACG1022
	C51 (0.047μF/5.5)	ACH1070
	C136	CEASR22M50
	C101,C102,C133	CEASR33M50
	C58	CEASO10M50
	C146-C150	CEAS100M25
	C127	CEAS101M16
	C125,C126	CEAS2R2M50
	C59	CEAS220M16
	C54,C60,C130	CEAS330M16
	C52	CEAS470M10
	C128	CEAS470M16
	C105,C106	CFTXA124J50
	C140,C141	CKCYB272K50
	C145	CKCYB332K50
	C137,C138	CKCYB682K50
	C143,C144	CKCYB821K50
	C53,C57,C129	CKCYF473Z50
	C134,C135	CKCYX183M25
	C139	CKCYX333M25
	C131,C132	CKCYX473M25
	C117,C118	CKDYB332K50
	C111,C112	CKDYB392K50
	C55,C56	CKDYX104M25
	C113,C114	CKDYX153M25
	C103,C104,C109,C110	CKDYX393M25
	C121,C122	CKMYB221K50

RESISTORS

Mark	Symbol & Description	Part No.
	VR111 (250k×2-B)	ACS1034
	VR101-VR110 (100k)	ACU1032
	R47-R50	RD1/2PM120J
	R59,R60,R100,R196-R199	RD1/4PM□□□J
	R64	RS2LMF390J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	V51 Fluorescent indicator tube	AAV-039
	2P Wire assembly	ADX1190
	REMOTE CONTROL SENCOR assembly	AXX1010

**DECK SW assembly
SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
	D76 LED assembly	AEL1038
	D78 LED assembly	AEL1039
	D79,D80 LED	AEL1075
	D77 LED	AEL1077

SWITCHES

Mark	Symbol & Description	Part No.
	S74-S77 Tact switch	ASG1029

RESISTORS

Mark	Symbol & Description	Part No.
	All resistors	RD1/8PM□□□J

**VR LED assembly
SEMICONDUCTOR**

Mark	Symbol & Description	Part No.
	D75 LED assembly	AEL1040

PATTERN assembly

No parts are supplied with the PATTERN assembly.

7. ADJUSTMENTS

7.1 TAPE DECK SECTION

7.1.1 Mechanical adjustments

• Adjustment point are as shown in Fig. 7-1

1. Connect the frequency counter to the TP401 terminal (Dolby TP: Lch) on the complex assembly.
2. Turn the tape switch on.
3. Mount the test tape STD-301 onto deck I.
4. Short circuit between terminals TP14 and TP15 on the complex assembly and put the deck I into play mode. (STD-301 is play backed in double speed.)
5. Adjust with VR503 so that the playback signal frequency of deck I becomes $6020\text{Hz} \pm 20\text{Hz}$.
6. Release the short circuit between terminals TP14 and TP15.
7. Put the deck I into play mode and adjust with VR501 so that the playback signal frequency becomes $3010\text{Hz} \pm 10\text{Hz}$.
(Note 1: Be sure not to turn VR503 while performing the normal speed adjustment.)
(Note 2: Be sure to first perform double speed adjustment in both Decks I and II.)
8. At this point, be sure to confirm that wow and flutter are within 0.3% both in the double and normal speeds.

9. Mount the test tape STD-301 onto deck II.
10. Short circuit between terminals TP14 and TP15 on the complex assembly A and put the deck II into play mode. (STD-301 is play backed in double speed.)
11. Adjust with VR504 so that the playback signal frequency of deck II becomes $6020\text{Hz} \pm 20\text{Hz}$ against that of deck I.
12. Release the short-circuit between terminals TP14 and TP15.
13. Put the deck II into play mode and adjust with VR502 so that the playback signal frequency of deck II becomes $3010\text{Hz} \pm 10\text{Hz}$ against that of deck I.
(Note: Be sure not to turn VR504 while performing the normal speed adjustment.)
14. At this point, be sure to confirm that the wow and flutter within 0.3% both in the double and normal speeds.

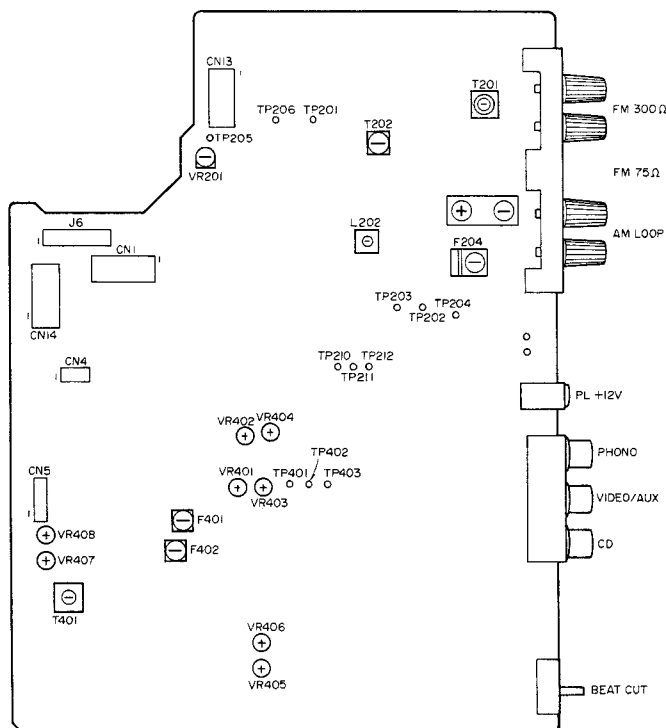


Fig. 7-1 Adjustments point

7.1.2 Electrical adjustments

Adjustment Conditions

1. The mechanical adjustments must be completed first.
2. The head must be cleaned and demagnetized.
3. Turn power on allow the deck to warm up for at least a few minutes before commencing any electrical adjustments.
4. The reference signal is 0dBv = 1Vrms.
5. Connect a 50 kilo-ohm (or between 47 to 52 kilo-ohm) load resistance to the OUTPUT terminals.
6. Unless otherwise specified, the switches listed below are left in the positions indicated.
 DOLBY NR :OFF
 TAPE SELECTOR :NORM

List of Adjustments

PLAYBACK SECTION

1. Head azimuth adjustment.
2. Playback level adjustment.

RECORDING SECTION

1. Recording sections
2. Recording level adjustment.

NOTE: This unit has an automatic tape selection feature.

Test Tapes

- STD-331B :Playback adjustments
(See Fig. 7-2)
- STD-608A :NORMAL blank tape
- STD-620 :CrO₂ blank tape
- STD-610 :METAL blank tape

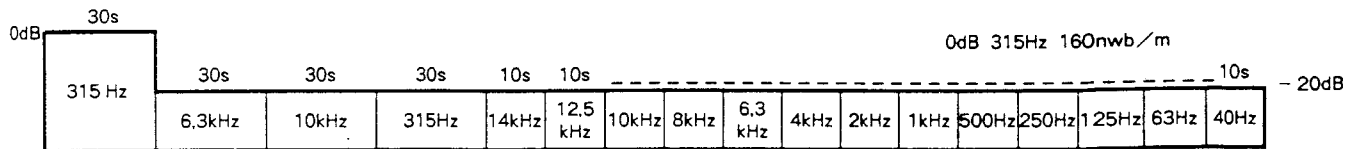


Fig. 7-2 Constants of the test tape STD-331B

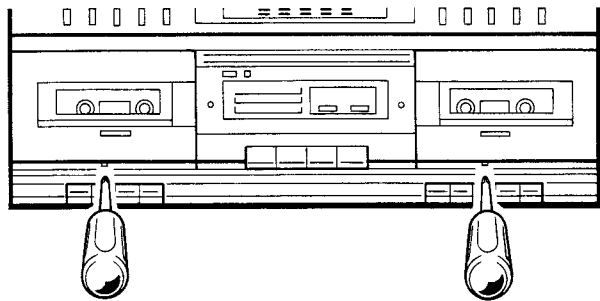


Fig. 7-3 Head azimuth adjustment

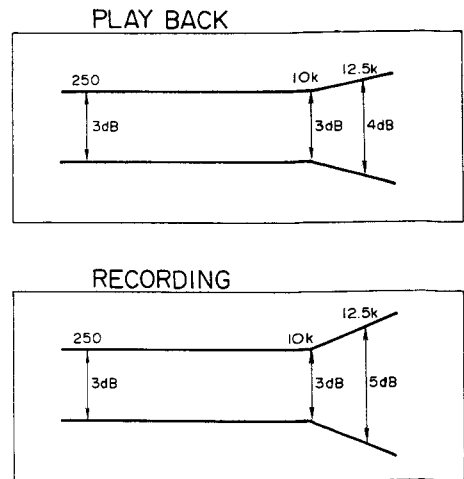


Fig. 7-4 Frequency response

DECK (PLAYBACK SECTION)
1. Head Azimuth Adjustment

- Turn VR, (Deck I) or VR, (Deck II) to mechanical center positions.

NO	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	PLAY	Play the 10kHz/−20dB section of STD-331B test tape.	Head azimuth adjustment screw. (See Fig. 7-3)	TP401 (L) TP403 (R)	Maximum playback signal level.	
2.	STOP	Lock the screw with scrwe lock after completing adjustment.				

2. Playback level Adjustment

- This adjustment determines the DOLBY NR level, and must be performed with great care.

NO	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks	
1.	PLAY	Play the 315Hz/0dB section of the STD-331B test tape.	Deck I	VR403 (Lch) VR404 (Rch)	TP.401 (Lch) TP.403 (Rch)	−5.2 dBv ±0.5 dBv	Adjust the playback level first at DESK I, and then at DECK II.
			Deck II	VR401 (Lch) VR402 (Rch)			

DECK (RECORDING SECTION)
1. Recording Bias Adjustment

- After the adjustment, caution should be exercised so as not to become under bias by checking the distortion rate.

NO	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	STOP	Set the TAPE SELECTOR switch to the NORM position.				
2.	REC	STD-630 (NORM) −20dB	Deck II	VR407 (Lch) VR408 (Rch)	LINE OUT TP401 TP403	0dB ±0.5dB (10kHz/315Hz)

2. Recording Level Adjustment

NO	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	STOP	Set the TAPE SELECTOR switch to the NORM position.				
2.	REC PAUSE	Apply a 315Hz/0dBv signal to the Line Input terminals.	Rec Level contorol	TP.401 (Lch) TP.403 (Rch)	−5.2 dBv	
3.		Set the DOLBY NR switch to the ON position. (DOLBY B)				
4.	REC/PLAY	Record the above signal on-to the STD-630 test tape, and playback.	Deck II	VR405 (Lch) VR406 (Lch)	TP.401 (Lch) TP.402 (Rch)	−5.2dBv ±0.5dB
5.	STOP	Set the TAPE SELECTOR switch to the CrO ₂ position.				
6.	REC/PLAY	Record the above signal on-to the STD-620 test tape, and playback.	Confirm	TP.401 (Lch) TP.402 (Rch)	−4.5dBV ±2dB	
7.	STOP	Set the TAPE SELECTOR switch to the METAL position.				

7.2 TUNER SECTION

7.2.1 FM (MONO) Tuner adjustment

- Adjustment point are as shown in Fig. 7-1
- Make the wire connections as shown in Fig. 7-5
- Set the function to FM (MONO)

FM MONO

Item	Adjustment location	Measuring location	Adjustment value	Conditions
Sensitivity adjustment	T201	TP210 TP212	Max. voltage	Level at which the standard modulation of 98MHz does not saturate voltage of TP3
Tuning voltage check at 8.75 MHz	—	TP201	3.5V ± 1.5V	—
Tuning voltage check at 108 MHz	—	TP201	8.7V +1.3V -2V	—
T METER adjustment	L202	TP202 TP203	Voltage 0V difference ± 10mV	Standard modulation at 98MHz 60dB

7.2.2 FM (STEREO) Tuner adjustment

- Adjustment point are as shown in Fig. 7-1
- Make the wire connections as shown in Fig. 7-5
- Set the function to FM (STEREO)

FM STEREO

Item	Adjustment location	Measuring location	Adjustment value	Conditions
MPX VCO Adjustment	VR201	TP205	76kHz ± 100Hz	Non modulation at 98MHz 80dBμV
Confirmation of distortion factor check	—	TP210, TP212	1.5% or less	Stereo modulation at 98MHz 60dBμV
Distortion factor adjustment ※	T202	TP210, TP212	Min. distortion	Stereo modulation at 98MHz 60dBμV

※ Perform the above adjustment only when the distortion factor check exceeds 1.5%.

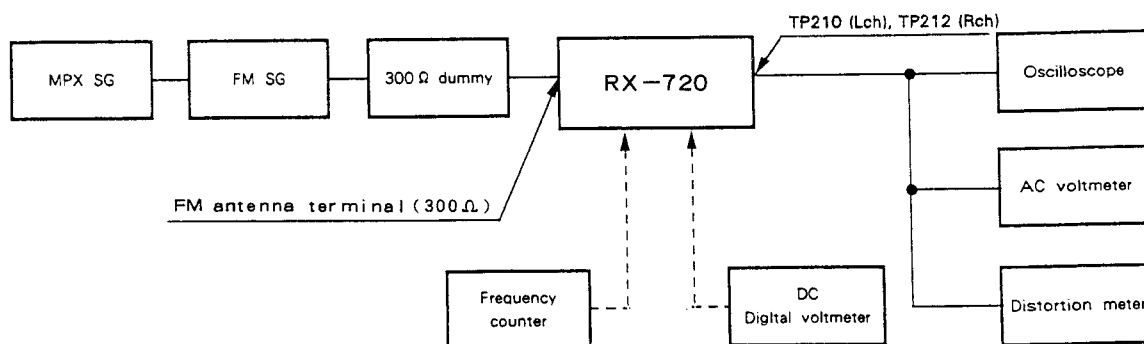


Fig. 7-5 FM adjustment wiring diagram

7.2.3 AM Tuner adjustment

- Adjustment point are as shown in Fig. 7-1
- Make the wire connections as shown in Fig. 7-6
- Set the function to AM

AM

Item	Adjustment location	Measuring location	Adjustment value	Conditions
TURND IND lighting level adjustment	R232	※ CN "TUNED"	60dB μ V/m or less	Standard modulation at 1000 kHz.

※10k Ω are applied to the "TUNED" terminal (+B = 5V). TUNED IND lights up at "L" level.

NOTE: Separate the R232 if out of specification.

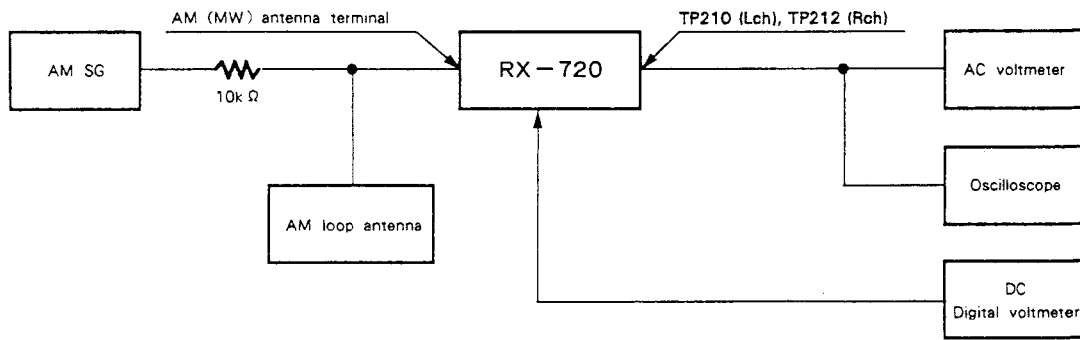
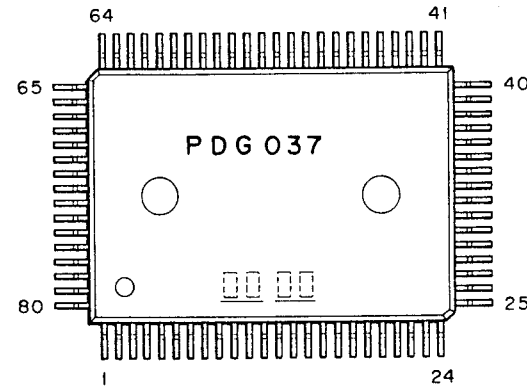


Fig. 7-6 AM adjustment wiring diagram

8. IC INFORMATION

<PDG037> SYSTEM CONTROL MICROCOMPUTER



1. Terminal Functions

No.	Name	I/O	P style	Function	LOGIC
1	S4/PG0	O	P	PB Nr × 2, CrO ₂	H: CrO ₂ playback or high speed copy with tape transport unit 1=normal
2	S5/PG1	O	P	PB CrO ₂ × 2	H: high speed copy with tape transport unit 1=CrO ₂
3	S6/PG2	O	P	tape transport unit 2 PLAY/REC	L: tape transport unit 2=REC H: tape transport unit 2=PLAY
4	S7/PG3	O	P	PLAY selection from tape transport units 1 and 2	L: tape transport unit 1=PLAY H: tape transport unit 2=PLAY
5	S8	O	P	Key output	
6	S9	O	P	Key output	
7	S10	O	P	Key output	
8	S11	O	P	Key output	
9	S12	O	P	Key output	
10	S13	O	P	Key output	
11	S14	O	P	Key output	
12	S15	O	P	Key output	
13	S16/T15	O	DP	FL segment a	
14	S17/T14	O	DP	FL segment b	
15	S18/T13	O	DP	FL segment c	
16	S19/T12	O	DP	FL segment d	
17	S20/T11	O	DP	FL segment e	
18	S21/T10	O	DP	FL segment f	
19	S22/T9	O	DP	FL segment g	
20	S23/T8	O	DP	FL segment h	
21	T7	O	DP	Unused (open)	
22	T6	O	DP	Unused (open)	
23	T5	O	DP	FL grid 1	
24	T4	O	DP	FL grid 2	
25	T3	O	DP	FL grid 3	
26	T2	O	DP	FL grid 4	
27	T1	O	DP	FL grid 5	
28	T0	O	DP	FL grid 6	
29	INT	I	C	switchover	L: MW9kHz, FM50kHz H: MW10kHz, FM100kHz
30	XTAL	O	C	Clock pulse output	
31	EXTAL	I	C	Clock pulse input	
32	RST	I	C	Reset	L: Reset
33	NC				
34	V _{DD}	I		Supply voltage	
35	PI0/AD0	O	C	VIDEO	H: FUNC=VIDEO
36	PI1/AD1	O	C	TUNER	H: FUNC=TUNER
37	PI2/AD2	O	C	DOLBY IND	H: DOLBY IND light up = DOLBY ON
38	PI3/AD3	O	C	SW INH	H: Scanning in progress with FUNC=TAPE or FUNC=TUNER
39	PB0/AD4	I	C	Key input 0	
40	PB1/AD5	I	C	Key input 1	

No.	Name	I/O	P style	Function	LOGIC
41	PB2/AD6	I	C	Key input 2	
42	PB3/AD7	I	C	Key input 3	
43	NC				
44	PX0/SC	O	C	Serial clock pulse output	
45	PX1/SO	O	C	Serial data output	
46	PX2/SI	I	C	Auto stop input	L: Auto tuning stop
47	PA0	O	C	Deck SW output 0	
48	PA1	O	C	Deck SW output 1	
49	PA2	O	C	REC IND	L: REC IND light up
50	PA3	O	C	REC CrO ₂	H: Tape transport unit 2 = CrO ₂
51	PF0	O	C	POWER Relay	H: Relay ON
52	PF1	O	C	LM7001 CE	H: Enable.
53	PF2	O	C	Function SW control A	H: FUNC = PHONO or FUNC = TUNER
54	PF3	O	C	BIAS OSC	H: ON = BIAS OSC
55	PE0	O	C	DOLBY MODE	L: DOLBY ON
56	PE1	O	C	MOTOR 1	H: tape transport unit 1 MOTOR ON
57	PE2	O	C	MOTOR 2	H: tape transport unit 2 MOTOR ON
58	PE3	O	C	TAPE SPEED	L: High speed copy in progress
59	PY0	O	C	VOLUME DOWN	H: Motor volume DOWN
60	PY1/PWM	O	C	VOLUME UP	H: Motor volume UP
61	PY2/WP	I	C	Power failure detec- tion	
62	PY3/EC/RMC	I	C	Remote control signal input	
63	PD0	O	C	×2 COPY IND.	L: ×2 COPY IND light up
64	PD1	O	C	×1 COPY IND.	L: ON = ×1 COPY IND light up
65	PD2	O	C	PAUSE IND.	L: PAUSE IND light up
66	PD3	O	C	PHONO	L: FUNC = PHONO
67	PC0	O	C	CD	L: FUNK = CD
68	PC1	O	C	VOLUME IND.	L: VOLUME IND light up
69	PC2	O	C	STANDBY IND.	L: STANDBY IND light up
70	PC3	O	C	TAPE	L: FUNC = TAPE
71	V _{SS}	I		GND terminal	
72	TX	O	C	Unused	Open
73	NC				
74	TEX	I	C	Unused	Connected to GND
75	V _{REF}	I		Reset standard voltage	Connected to V _{DD}
76	V _{FDP}	I		Power terminal for FL	
77	S0/PH0	O	P	MUTING	L: MUTING ON (Signal OFF)
78	S1/PH1	O	P	REC MUTE	H: MUTING ON (Signal OFF)
79	S2/PH2	O	P	PB MUTE	L: MUTING ON (Signal OFF)
80	S3/PH3	O	P	PROTECTION RELAY	H: RELAY ON

C: CMOS I/O

P: Pch open drain output

DP: Pch open drain output with pull-down resistor

9. FOR RX-720/KC, RX-520/KU, KC TYPES

CONTRAST OF MISCELLANEOUS PARTS

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.

The RX-720/KC, RX-520/KU, KC types are the same as the RX-720/KU type with the exception of the following sections.

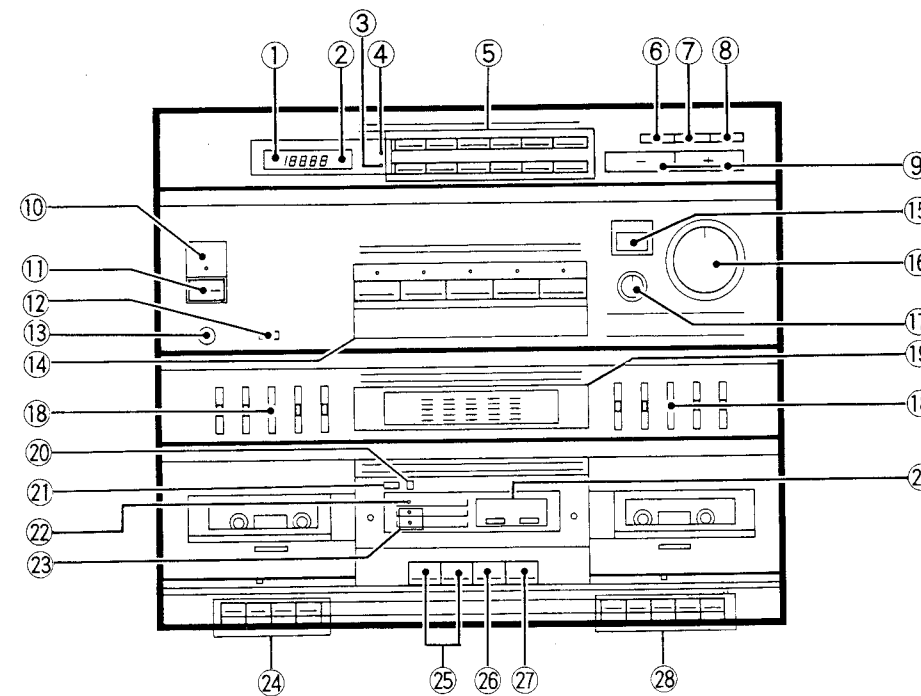
Mark	Symbol & Description	Part No.				Remarks
		RX-720/ KU type	RX-720/ KC type	RX-520/ KU type	RX-520/ KC type	
Δ	T1 Power transformer (AC120V)	ATS1196	ATS1196	ATS1197	ATS1197	
	Front panel	AMB1501	AMB1501	AMB1502	AMB1502	
	Packing case	AHD1645	AHD1645	AHD1646	AHD1646	
	Remote control unit	AXD1048	AXD1048	AXD1048	AXD1048	
	Operating instructions (English)	.....	.....	.....	.....
	Power assembly	AWZ2288	AWZ2552	AWZ2288	AWZ2552	

POWER ASSEMBLY (AWZ2552)

The Power assembly (AWZ2552) is the same as the (AWZ2288) with the exception of the following sections.

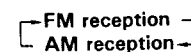
Mark	Symbol & Description	Part No.		Remarks
		AWZ2288	AWZ2552	
Δ	R653-R656	.....	FFA1/4PS4R7J	

10. PANEL FACILITIES



TUNER SECTION

- ① **FREQUENCY/station number display**
- ② **FM MONO indicator**
Lights when the FM MONO switch is pressed to select monaural FM reception.
- ③ **STEREO indicator**
This lights during FM stereo reception.
- ④ **TUNED indicator**
This lights to indicate that a station has been optimally tuned in.
- ⑤ **STATION CALL switches**
These are used to recall preset broadcasting stations and to preset the station.
- ⑥ **MEMORY switch**
This switch is used to memorize stations. When the switch is pressed, the FREQUENCY indicator will flash. To memorize the frequency of any station, press one of the STATION CALL switch while the frequency indicator is flashing.
- ⑦ **FM MONO switch**
Normally, the FM MONO indicator remains off. However, it may not be possible to tune in a desired FM station because it is too far away or because its signals are too weak. In cases like these, press the switch to set the reception to the monaural mode (FM MONO indicator lights) and tune in the station. The program of an FM stereo broadcast will be heard in mono. This switch will not function for AM reception. The FM MONO setting is memorized along with station frequency when presetting a station.
- ⑧ **BAND selector switch (FM/ AM)**
This is used to select the band of the desired station. The bands change alternately each time the switch is pressed.



⑨ TUNING switch (-, +)

These are used to locate stations. Push the "-" switch to locate a station broadcasting on a lower frequency and the "+" switch to locate a station broadcasting on a higher frequency.

AMPLIFIER SECTION

- ⑩ **STANDBY/SLEEP indicator**
This indicator lights in standby status or when the sleep timer function is operating when the power cord is connected to a power outlet.
When the SLEEP key on the remote control unit is pressed, the sleep function activated for approximately 60 minutes, then enters the standby mode. (The STANDBY/SLEEP indicator flashes faster as the end of the set time nears.)
- ⑪ **POWER (STANDBY/ON) switch**
When this switch is set to the ON position, the STANDBY/SLEEP indicator goes out and power is supplied to the main circuits of the cassette tape deck receiver. The POWER unit's switch is geared to selecting the transformer's secondary so that even in STANDBY position, the unit's circuitry will work as long as the power cord is connected to a power outlet.
Disconnect the power cord from the power outlet when you do not plan to use the cassette tape deck receiver for a long period of time.

The cassette tape deck receiver has a backup function, so it will return to the original status when the power cord is unplugged and soon again plugged into the power outlet.

⑫ SPEAKERS switch (■ A, ■ A + B)

This is used to select the speaker through which you wish to listen.

■ A : When the speakers connected to A terminals are in use.

■ A + B : When the speakers connected to A and B terminals are in use.

(There is no sound at this position when speakers are connected only to the A terminals.)

Be sure to use A terminals when you use a pair of speakers only. No sound will be heard through the speakers when only a pair of speakers are connected to B terminals.

⑬ PHONES jack

This is a "standard plug-type jack" for headphones.

NOTE:

Sound is not heard from the speakers when headphones are in use.

⑭ FUNCTION switches/indicators

The indicators light for the specified functions.

⑮ REMOTE SENSOR window

⑯ VOLUME control/indicator

The volume is increased when this control is turned clockwise, decreased when turned counterclockwise. When operating with the remote control unit, the control automatically turns clockwise when "+" is pressed, counterclockwise when "-" is pressed, and the indicator on the VOLUME control flashes rapidly.

The indicator also flashes when the muting function is operated by the remote control unit.

⑰ BALANCE control

Usually set this control to the central position. If turned counterclockwise, the volume of the right channel will decrease. If turned clockwise, the volume of the left channel will decrease.

GRAPHIC EQUALIZER SECTION

⑱ GRAPHIC EQUALIZER controls

⑲ SPECTRUM ANALYZER display

CASSETTE TAPE DECK SECTION

• The cassette tape deck receiver is provided with an automatic tape selector function.

Deck I NORMAL/CrO₂, METAL

Deck II NORMAL/CrO₂

⑳ DECK I TAPE COUNTER RESET switch

㉑ DECK I TAPE COUNTER

3-digital display measures tape travel on deck I.

㉒ DOLBY NR indicator

㉓ COPY MODE indicators

㉔ Deck I switches

- ▶ (PLAY) Playback.
- ◀◀ (REW) Rewind
- ▶▶ (FF) Fast forward
- /▲ (STOP/EJECT) Stops tape travel. Ejects cassette if pressed when tape is stopped.

㉕ COPY MODE switches

These switches are used to select the copy mode.

HIGH High speed copying (double-speed, halftime copying)

NORMAL Normal speed copying


NOTE :

When the COPY MODE indicator is blinking (copy standby mode) the playback operation is not available for only DECK I or only DECK II, and the recording operation is not available for DECK II only.

㉖ DOLBY* NR switch

Press to activate noise reduction system. Use to play back tapes recorded using Dolby B NR.

- Tapes recorded using Dolby B NR should always be played back with the noise reduction system on. Sound quality will be adversely affected if they are played back with the system off, or if tapes recorded using a different noise reduction system are played back with the Dolby B NR system on.
- It is recommended that tapes recorded using Dolby B NR be so marked on the label. This will help to prevent incorrect setting of the noise reduction switch during playback.

*
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

㉗ DECK II PAUSE (■) switch

This switch is used to temporarily stop the tape in deck II. The PAUSE indicator lights during the pause mode. The pause mode is cancelled when the switch is pressed again. The PAUSE switch will not function while copying a tape.

㉘ Deck II switches

- (REC) Set to the recording mode.
- ▶ (PLAY) Playback
- ◀◀ (REW) Rewind
- ▶▶ (FF) Fast forward
- /▲ (STOP/EJECT) Stops tape travel. Ejects cassette if pressed when tape is stopped.

㉙ DECK II MODE indicators

- REC (●) Lights during recording
- PAUSE (■) Lights during the pause mode.

