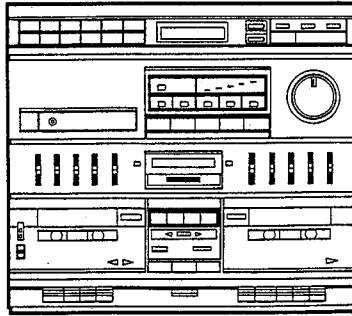


# Service Manual

**PIONEER**  
The future of sound and vision.



ORDER NO.  
ARP1491

STEREO CASSETTE TAPE DECK RECEIVER

# RX-Z71L

MODELS RX-Z71L, RX-Z71 AND RX-Z71S HAVE FIVE VERSIONS :

Type	Applicable model			Power requirement	Export destination
	RX-Z71L	RX-Z71	RX-Z71S		
HEI	○	—	—	AC220V,240V (switchable)	European continent
HB	○	—	—	AC220V,240V (switchable)	United Kingdom
HEZ	—	○	—	AC220V,240V (switchable)	West Germany
YP	—	○	—	AC240V only	Australia
SD	—	○	○	AC110V,120V - 127V,220V,240V (switchable)	Kingdom of Saudi Arabia and general market
HEIXSG	○	—	—	AC220V,240V (switchable)	European continent

- This manual is applicable to the RX-Z71L/HEI and HB types.
- For the other types, refer to additional service manuals.
- Ce manuel pour le service comprend les explications en français de réglage.
- Este manual de servicio trata del método ajusto escrito en español.

## CONTENTS

1. SAFETY INFORMATION .....	2	6. RÉGLAGES .....	49
2. EXPLODED VIEWS AND PARTS LIST .....	2	6. AJUSTES .....	56
3. PACKING .....	14	7. IC INFORMATION .....	63
4. SCHEMATIC AND P.C.BOARDS DIAGRAM .....	15	8. SPECIFICATIONS .....	65
5. ELECTRICAL PARTS LIST .....	37	9. CONNECTIONS .....	66
6. ADJUSTMENTS .....	42	10. PANEL FACILITIES .....	68

**PIONEER ELECTRONIC CORPORATION** 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan  
**PIONEER ELECTRONICS SERVICE INC.** P.O. Box 1760, Long Beach, California 90801 U.S.A.  
**PIONEER ELECTRONICS OF CANADA, INC.** 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada  
**PIONEER ELECTRONIC [EUROPE] N.V.** Keetberglaan 1, 2740 Beveren, Belgium  
**PIONEER ELECTRONICS AUSTRALIA PTY. LTD.** 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

IFV© JAN.1988 Printed in Japan

# 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 120 V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.

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.

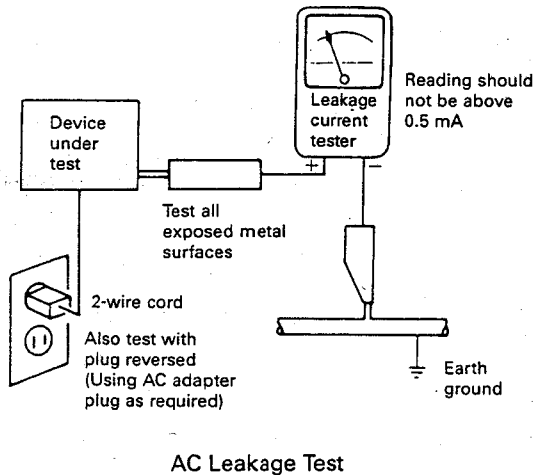
## 2. PRODUCT SAFETY NOTICE

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  $\Delta$  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  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks  $\star\star$  and  $\star$ .  
 $\star\star$  GENERALLY MOVES FASTER THAN  $\star$   
 This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by "Ⓞ" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

## 2.1 Exterior

### Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
$\Delta$ $\star$	1	ATS1125	Power transformer (T1)	$\Delta$ $\star\star$	4	AEK-018	Fuse (T1.25A/250V,FU1) (HEI type)
$\Delta$	2	AKP1024	1P AC socket (HEI type)	$\Delta$ $\star\star$		AEK-509	Fuse (T1.25A/250V,FU1) (HB type)
$\Delta$		AKP1023	1P AC socket (HB type)	$\Delta$ $\star\star$	5	AEK-402	Fuse (T1A/250V,FU2) (HEI type only)
$\Delta$ $\star\star$	3	AEK-017	Fuse (T2A/250V,FU5,FU6) (HEI type)				
$\Delta$ $\star\star$		AEK-511	Fuse (T2A/250V,FU5,FU6) (HB type)				

Mark	No.	Part No.	Description
▲★★	6	AEK-405	Fuse (T1.6A/250V,FU4) (HEI type)
▲★★		AEK-510	Fuse (T1.6A/250V,FU4) (HB type)
	7	AXA1005	Damper assembly
	8	AMB1305	Front panel assembly
	9	AAB1054	Knob (VOLUME)
	10	AAD-015	Push knob (MAIN POWER)
	11	AAD1314	Memory button (CLOCK/FREQ)
	12	AAD1315	Tuning button (TUNING +,-)
	13	AAD1316	Station button A (1/13 - 6/18)
	14	AAD1317	Station button B (7/19 - 12/24)
	15	AAD1318	Button (TIMER,DOLBY NR)
	16	AAD1324	Memory button (MEMORY)
	17	AAD1325	Memory button (MODE)
	18	AAD1326	Band button (BAND)
	19	AAE1081	Cassette button A (REW)
	20	AAE1082	Cassette button A (FF)
	21	AAE0183	Cassette button A (STOP/EJECT)
	22	AAE1084	Cassette button A (PLAY)
	23	AAE1085	Cassette button C (REC)
	24	AAE1086	PAUSE button
	25	AAE1087	REVERSE MODE knob
	26	AAE1088	DIRECTION knob
	27	AAE1089	Cassette button B (PLAY)
	28	AAK1420	Door cover
	29	AAK1422	Door cover
	30	AAK1424	Amplifier plate B
	31	AAK1425	Graphic Equalizer plate
	32	AAK1427	Deck plate B
	33	AAK1429	Tuner plate
	34	AAK1430	FL filter
	35	AAK1431	Amplifier plate A
	36	AAK1432	Deck plate A
	37	AAK1065	Cassette door
	38	AZN1453	Bonnet case

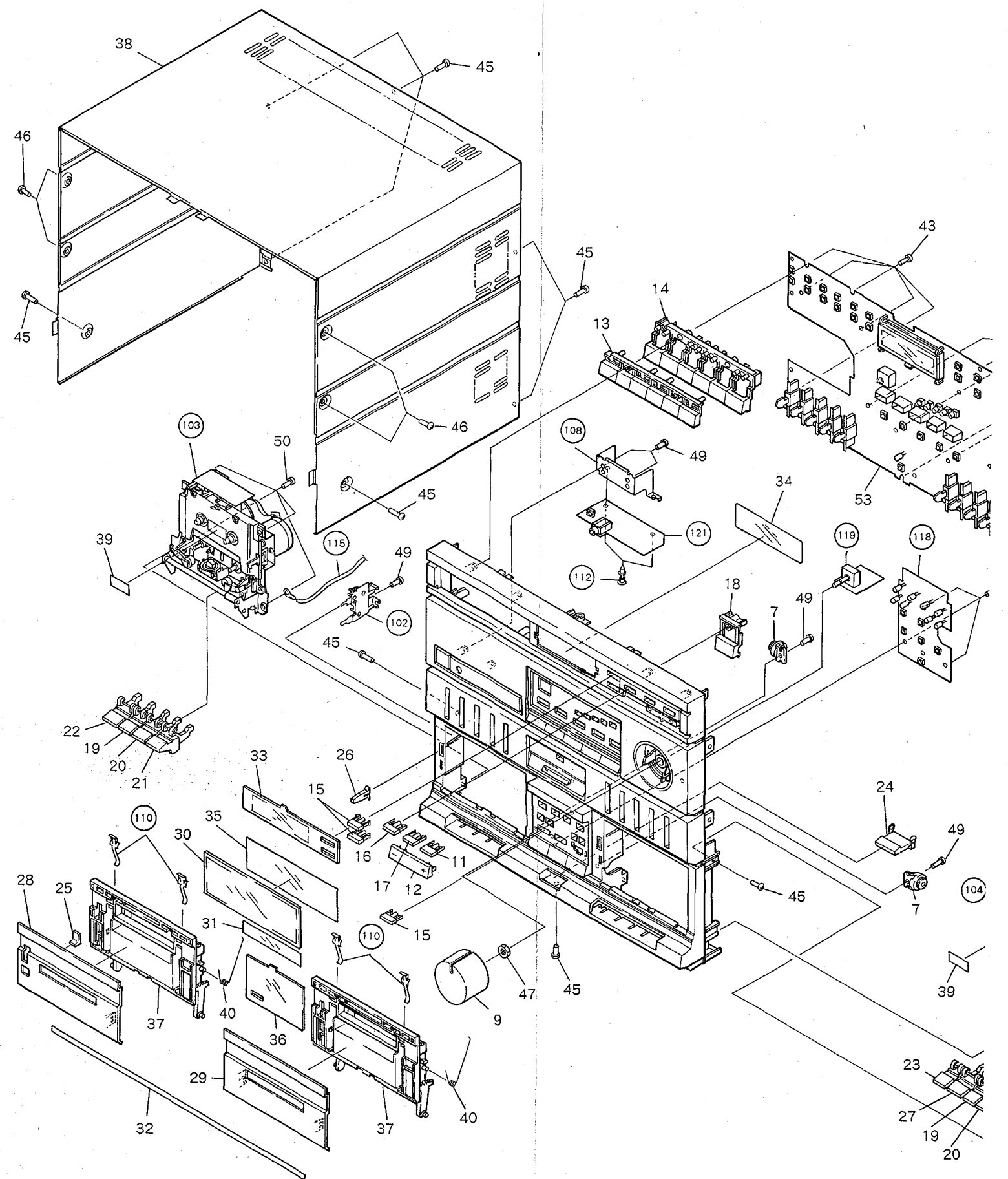
Mark	No.	Part No.	Description
		39	AAX1054 Fluorescent sheet
		40	ABH1043 Door spring
		41	AEC-847 Leg assembly
▲		42	ADG1021 AC power cord (HEI type)
▲		ADG-063 AC power cord (HB type)	
		43	BBZ26P080FMC Screw
		44	BBZ30P080FMC Screw
		45	BBZ30P080FZK Screw
		46	BPZ30P100FZK Screw
		47	NK70FUC Nut
		48	VBZ30P060FMC Screw
		49	VPZ30P080FMC Screw
		50	VPZ30P100FMC Screw
		51	AWE1059 TUNER assembly
		52	AWZ1754 MAIN assembly
▲★★		53	AWZ1757 $\mu$ -CON assembly
		54	AEK-508 Fuse (T1A/250V,FU3) (HB type only)
	101		Terminal (GND)
	102		Lever assembly
	103		Tape transport unit (DECK I)
	104		Tape transport unit (DECK II)
	105		Chassis
	106		Rear panel
	107		Bottom plate
	108		PCB support A
	109		PCB support B
	110		Keep plate
	111		.....
	112		Pin-grommet
	113		PCB holder
	114		PCB support
	115		Earth lead
	116		Heat sink support
	117		CONNECT assembly
	118		SWITCH assembly
	119		VR SW assembly
	120		POWER SUPPLY assembly
	121		HEADPHONE assembly

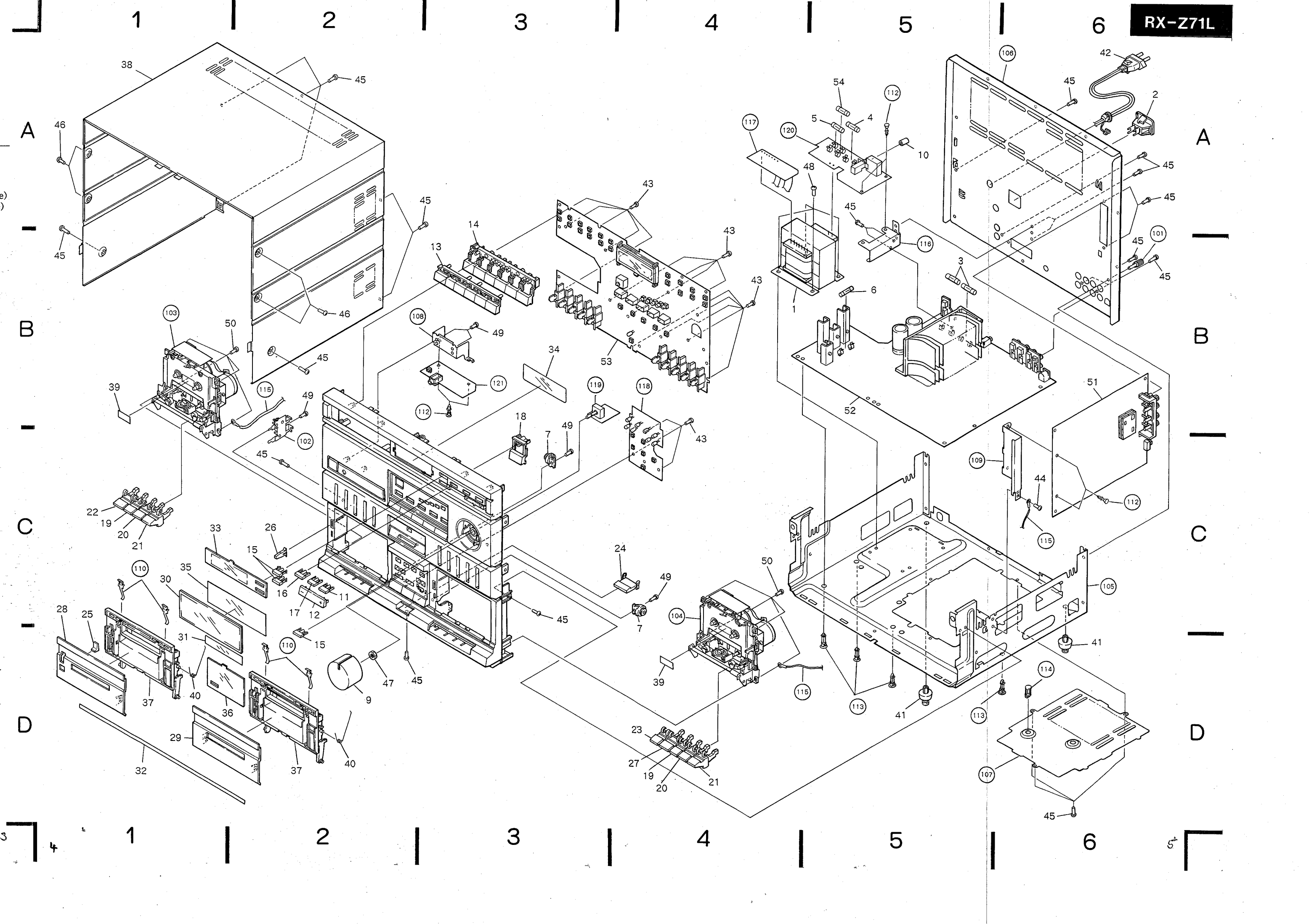
A

B

C

D





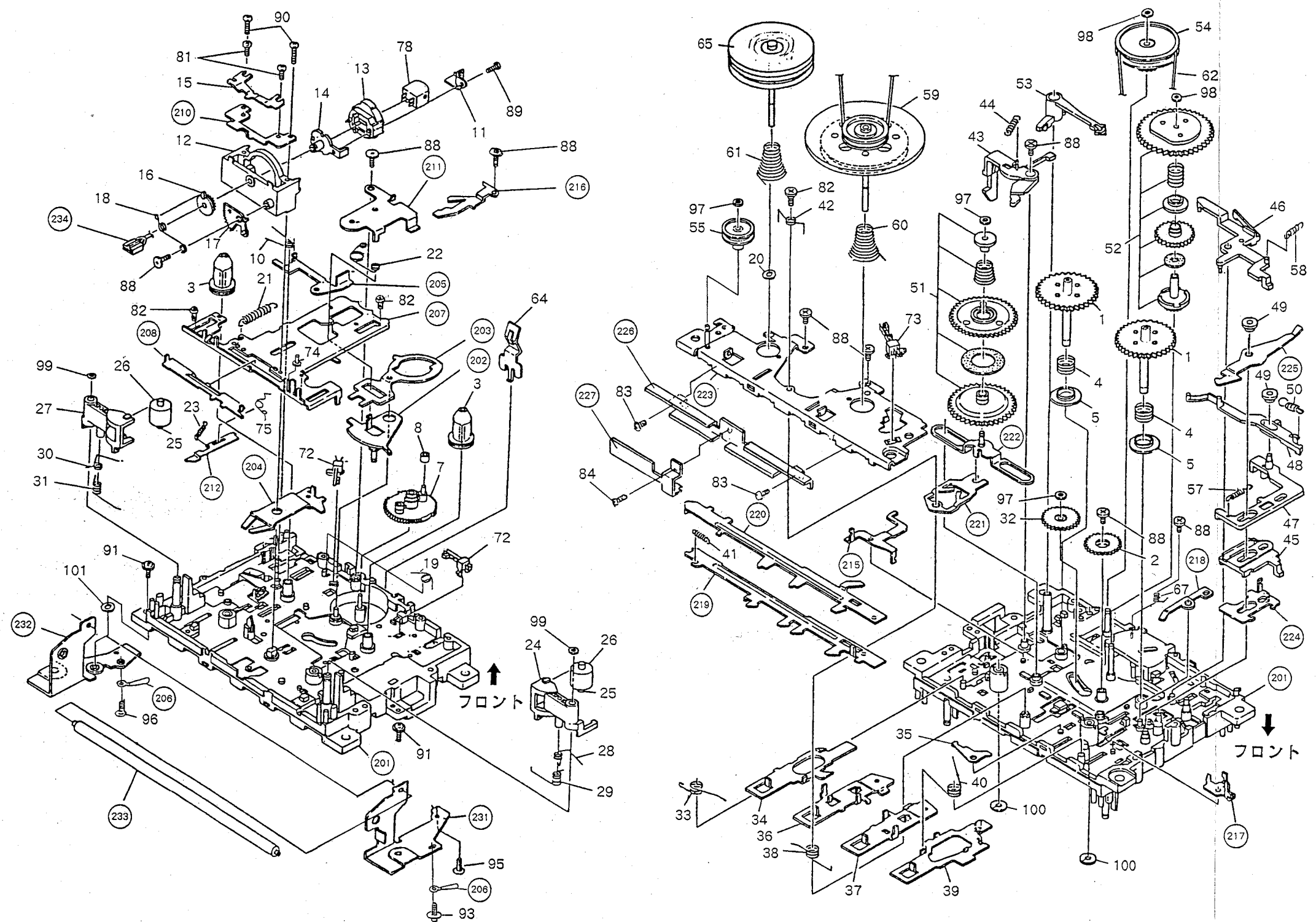
2.2 Tape Transport Unit (DECK I)

A

B

C

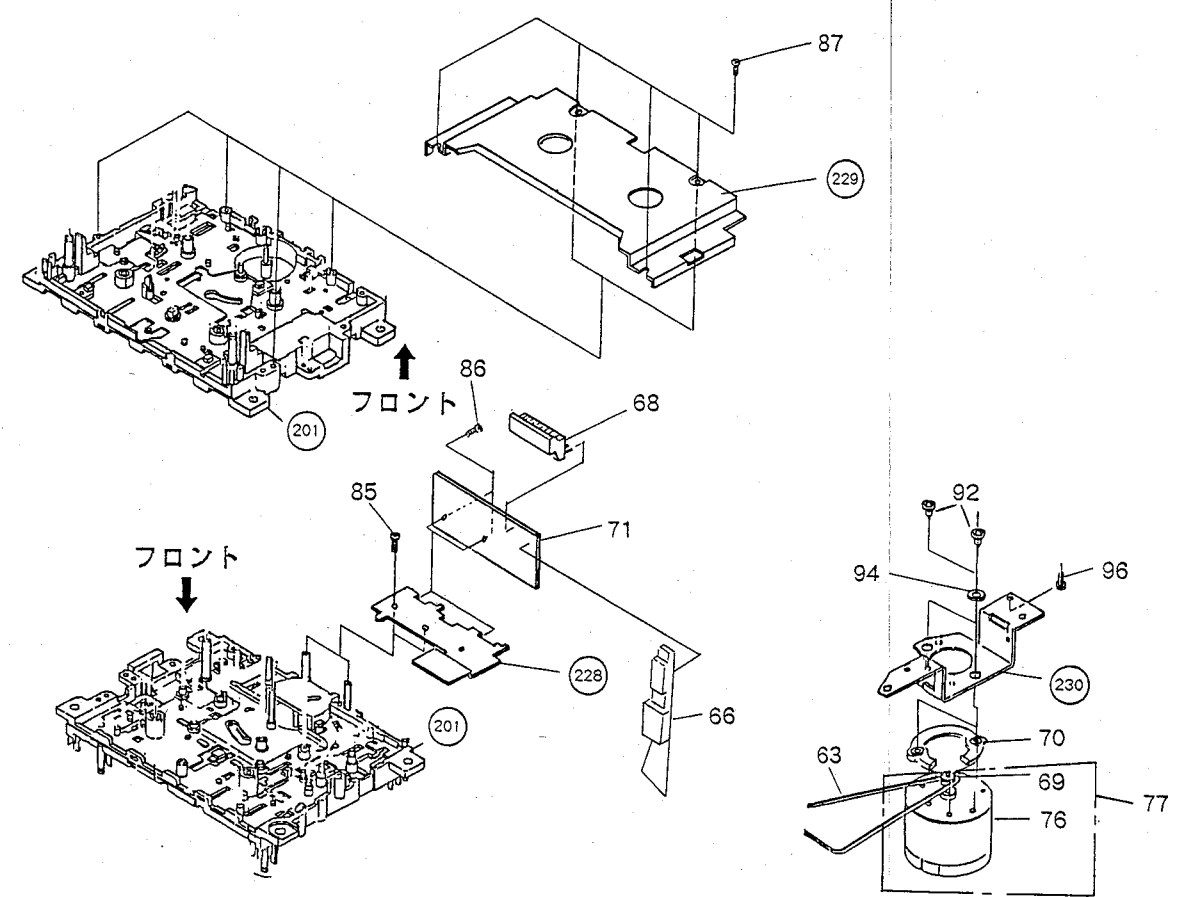
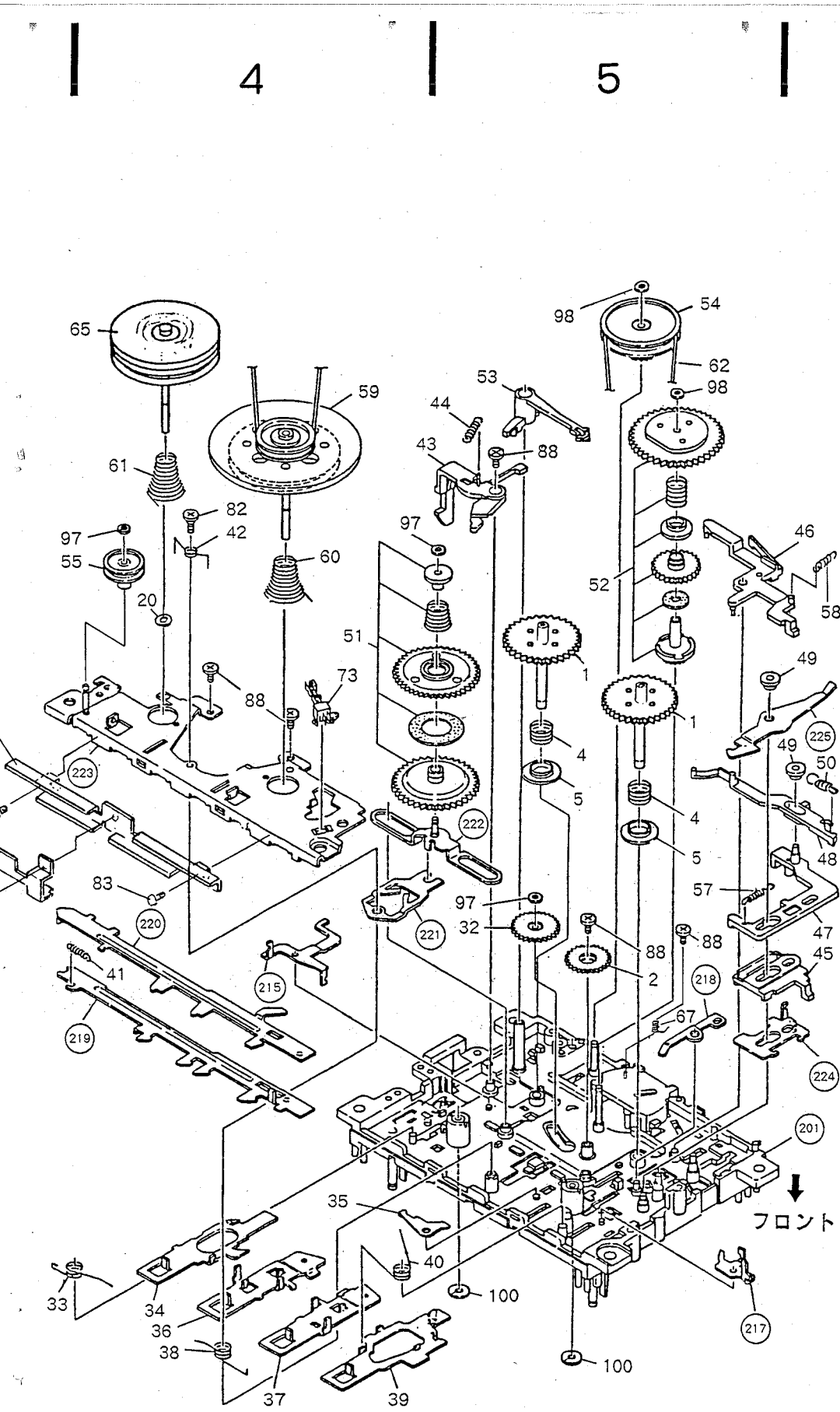
D



Parts List

Mark	No.	Pa
	1	A:
	2	A:
	3	A:
	4	A:
	5	A:
	6	
	7	A:
	8	A:
	9	
	10	A:
	11	A:
	12	A:
	13	A:
	14	A:
	15	A:
	16	A:
	17	A:
	18	A:
	19	A:
	20	A:
	21	A:
	22	A:
	23	A:
	24	A:
	25	A:





**Parts List**

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	AZN1510	Reel gear		26	AZN1532	Pinch roller
	2	AZN1511	FWD gear		27	AZN1533	Pinch arm L
	3	AZN1512	Reel cap		28	AZN1534	Spring
	4	AZN1513	Spring		29	AZN1535	Spring
	5	AZN1514	Reel D bush		30	AZN1536	Spring
	6		.....		31	AZN1537	Spring
	7	AZN1515	Reverse gear assembly	★★	32	AZN1538	Idler gear
	8	AZN1516	Coller B		33	AZN1539	Spring
	9		.....		34	AZN1540	STOP lever
	10	AZN1518	Spring		35	AZN1541	CUE arm
	11	AZN1522	SP head plate		36	AZN1542	FF lever
	12	AZN1519	Head holder		37	AZN1543	REW lever
	13	AZN1520	Head holder B		38	AZN1544	Spring
	14	AZN1521	Head holder A assembly		39	AZN1545	PLAY lever B
	15	AZN1523	Azimuth spring plate		40	AZN1546	Spring
	16	AZN1524	Head gear A		41	AZN1547	Spring
	17	AZN1525	Head gear B		42	AZN1548	Spring
	18	AZN1526	Spring		43	AZN1549	EJECT lever
	19	AZN1574	Spring		44	AZN1550	Spring
	20	AZB1241	Washer		45	AZN1551	MO lever
	21	AZN1527	Spring		46	AZN1552	DR lever
	22	AZN1528	Spring		47	AZN1553	Senser lever
	23	AZN1529	Spring		48	AZN1554	Senser lever B
	24	AZN1530	Pinch arm R		49	AZN1555	Bush
	25	AZN1531	Shaft		50	AZN1556	Spring

A  
B  
C  
D

1

2

3

4

5

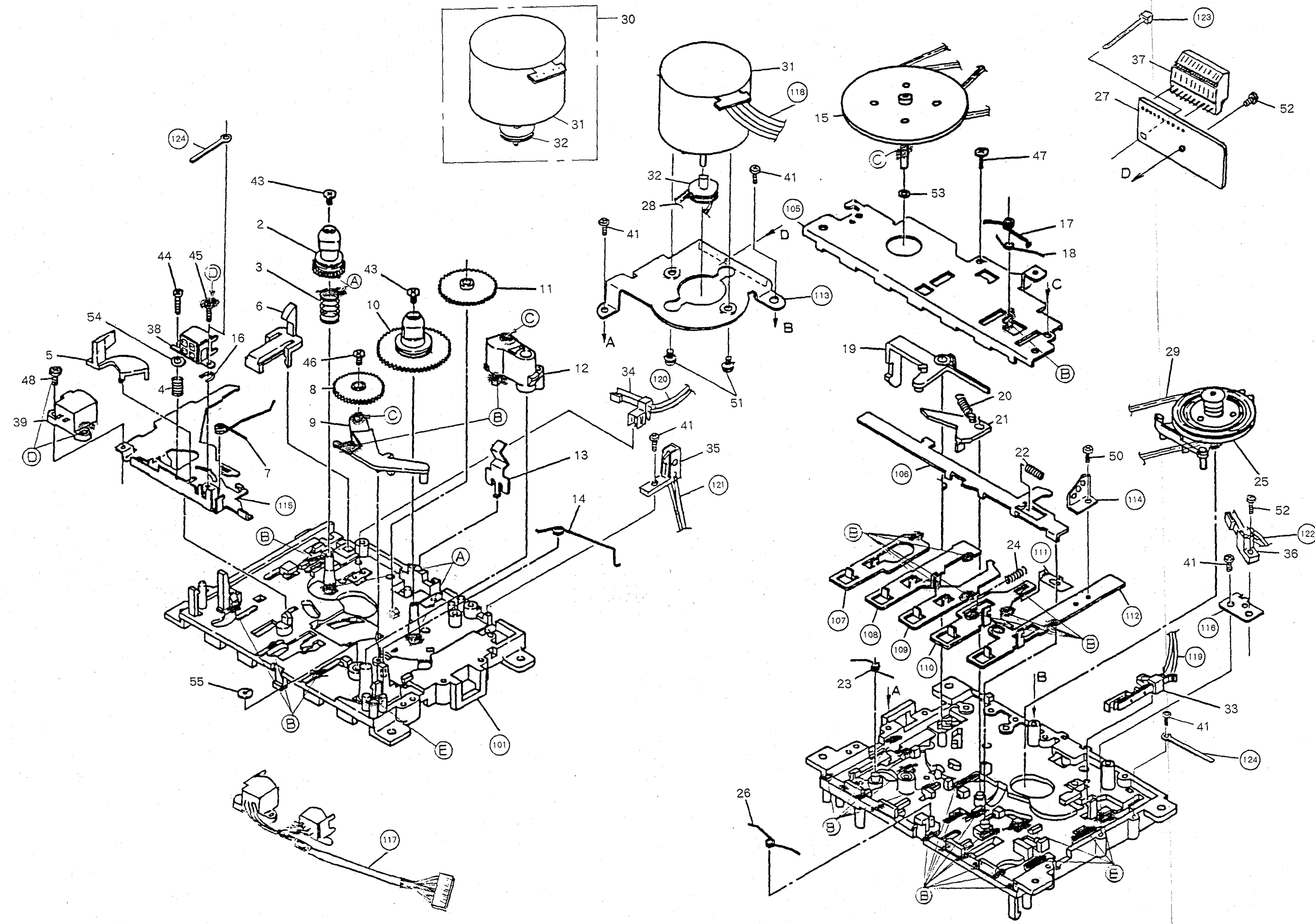
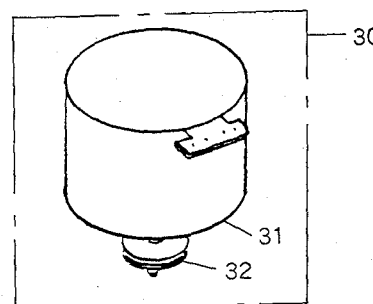
6

A

B

C

D



1

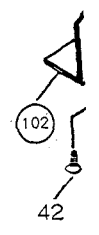
2

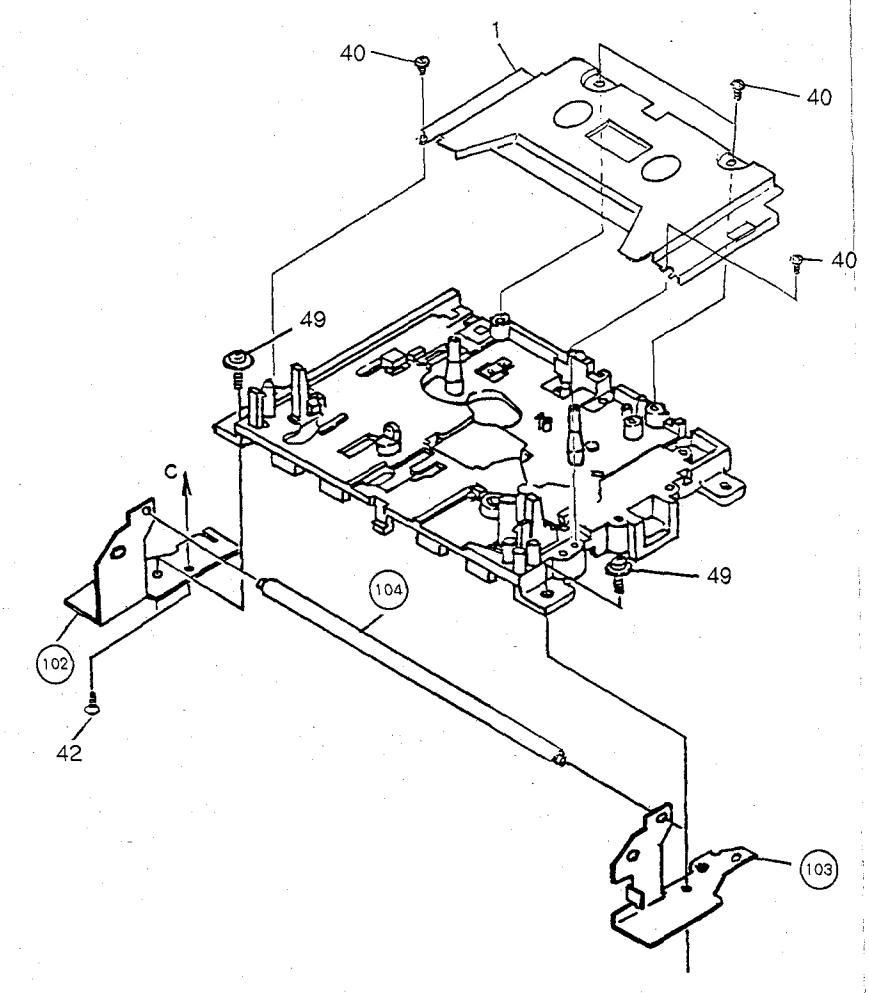
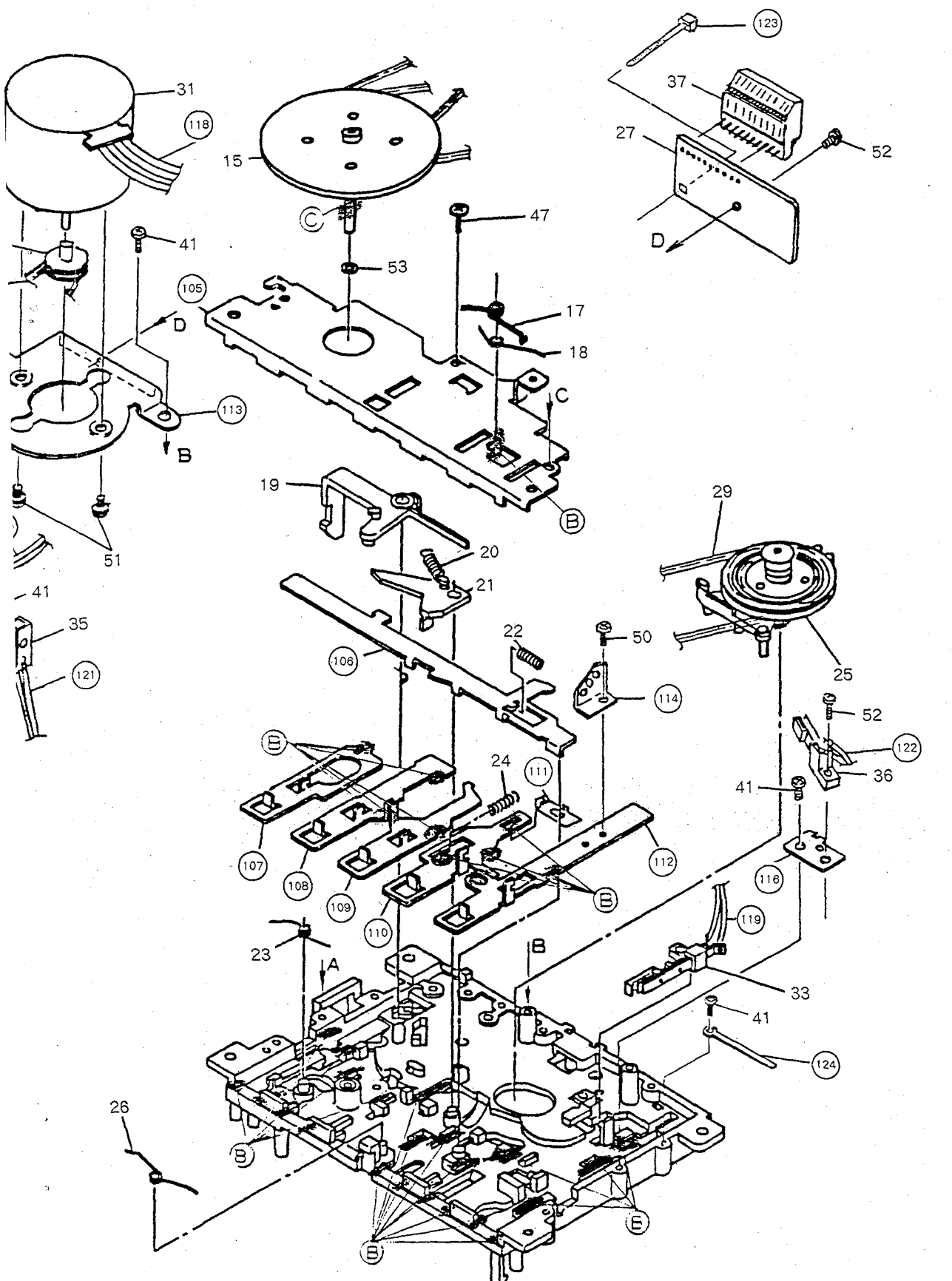
3

4

5

6





A  
|  
B  
|  
C  
|  
D  
|

4

5

6

7

8

9

4

5

6

7

8

9



<u>Mark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Mark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>
	51	AZN1557	FF tension assembly		201		Mechanism chassis assembly
	52	AZN1558	Tension assembly		202		Idler plate assembly
	53	AZN1559	STOP sensor arm		203		Reverse arm A
	54	AZN1560	Drive pulley		204		Reverse plate B
	55	AZN1561	Pulley		205		MO connect arm
	56		. . . . .		206		. . . . .
	57	AZN1578	Spring		207		Head chassis
	58	AZN1562	Spring		208		Slide plate
	59	AZN1563	Flywheel assembly		209		. . . . .
	60	AZN1565	Spring		210		Azimuth plate
	61	AZN1564	Spring		211		Gear holder
★★	62	AZN1566	Belt		212		Stop gear lever
★★	63	AZN1567	Belt		213		. . . . .
	64	AZN1580	Cassette SP plate		214		. . . . .
	65	AZN1569	Flywheel assembly		215		STOP sensor plate
★★	66	AZS1065	Leaf switch		216		Stopper
	67	AZB1244	Spring		217		Switch plate A
	68	AZN1573	Connector		218		Switch plate B
	69	AZN1509	Motor pulley		219		Function plate A
	70	AZN1304	Spacer		220		Function plate B
	71	AZN1571	Main P.C.B		221		FF idler lever
★★	72	AZS1063	Leaf switch		222		FF idler plate assembly
★★	73	AZS1064	Leaf switch		223		Lever holder assembly
	74	AZB1243	Eyelet		224		MC plate
	75	AZB1242	Spring		225		Cancel lever
★★	76	AZX1022	Motor		226		PCB holder
★★	77	AZX1023	Motor assembly		227		Cover wire
★★	78	AZP1026	Playback head		228		Plate holder
	79		. . . . .		229		Mechanism cover plate
	80		. . . . .		230		Motor holder
	81	AZB1177	Azimuth screw		231		PR button holder
	82	AZB1178	Screw		232		PL button holder
	83	AZB1179	Screw		233		Shaft
	84	AZB1180	Screw		234		Head wire
	85	AZB1181	Screw				
	86	AZB1182	Screw				
	87	AZB1183	Screw				
	88	AZB1184	Bush screw				
	89	AZB1185	Screw				
	90	AZB1186	Screw				
	91	AZB1187	Screw				
	92	AZB1188	Screw				
	93	AZB1248	Screw				
	94	AZB1189	Washer				
	95	AZB1190	Screw				
	96	AZB1191	Screw				
	97	AZB1192	Washer				
	98	AZB1193	Washer				
	99	AZB1097	Washer				
	100	AZB1194	Washer				
	101	AZB1195	Washer				

## 2.3 Tape Transport Unit (DECK II)

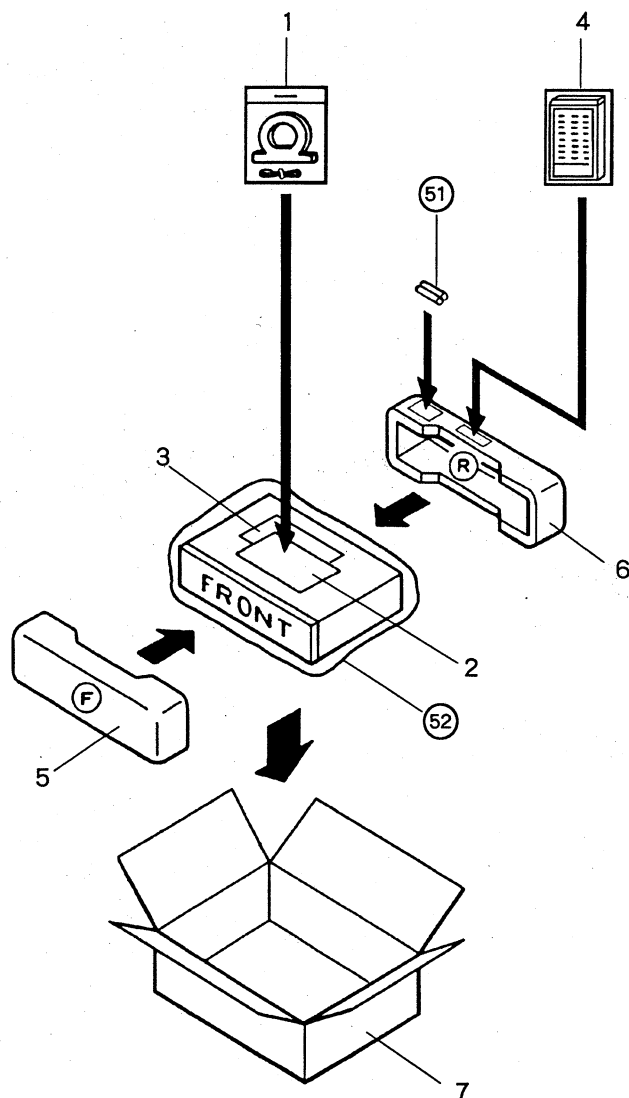
## Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	AZN1479	Mechanism cover plate		41	AZB1191	L.screw
	2	AZN1480	S.reel		42	AZB1190	L.screw
	3	AZN1481	C.spring		43	AZB1165	Bush D
	4	AZN1482	Azimuth C spring		44	AZB1166	N.screw
	5	AZN1508	Tape sensor		45	AZB1167	P.screw
	6	AZN1572	Interlock plate		46	AZB1184	Bush
	7	AZN1483	Pinch arm spring		47	AZB1170	Bush C
	8	AZN1484	Idler gear		48	AZB1175	D.bind screw
	9	AZN1485	Idler arm		49	AZB1171	D.screw
	10	AZN1486	T.reel assembly		50	AZB1172	D.screw
	11	AZN1487	FWD gear		51	AZB1173	P.screw
	12	AZN1488	Pinch arm assembly		52	AZB1176	D.screw
	13	AZN1489	Cassette SP plate		53	AZB1168	P.washer
	14	AZN1490	Spring		54	AZB1169	F.washer
	15	AZN1491	Flywheel assembly		55	AZB1194	N.washer
	16	AZN1494	Spacer C		101		Mechanism chassis assembly
	17	AZN1495	Spring		102		PL button holder
	18	AZN1496	Spring		103		PR button holder
	19	AZN1497	EJECT arm		104		Shaft
	20	AZN1498	T.spring		105		Back plate
	21	AZN1499	STOP sensor arm		106		Function lever
	22	AZN1500	C.spring		107		STOP lever
	23	AZN1501	Spring		108		FF lever
	24	AZN1502	C.spring		109		REW lever
	25	AZN1503	Power arm assembly		110		PLAY lever
	26	AZN1504	Spring		111		REC stop lever
	27	AZN1571	Main P.C.B		112		REC lever
★★	28	AZN1506	Belt		113		Motor bracket
★★	29	AZN1507	Belt		114		RSW lever
★★	30	AZX1021	Motor assembly		115		Head base B
★★	31	AZX1019	Motor		116		SW plate
	32	AZN1509	Motor pulley		117		Connector assembly
★★	33	AZS1059	Leaf switch (MOTOR)		118		Jumper wire
★★	34	AZS1060	Leaf switch (PLAY)		119		Lead wire
★★	35	AZS1061	Leaf switch (CrO <sub>2</sub> )		120		Lead wire
★★	36	AZS1062	Leaf switch (REC)		121		Lead wire
	37	AZN1505	Connector		122		Lead wire
★★	38	AZP1024	REC/playback head		123		Nylon band
★★	39	AZP1025	Erase head		124		Lug plate
	40	AZB1183	L.screw				

### 3. PACKING

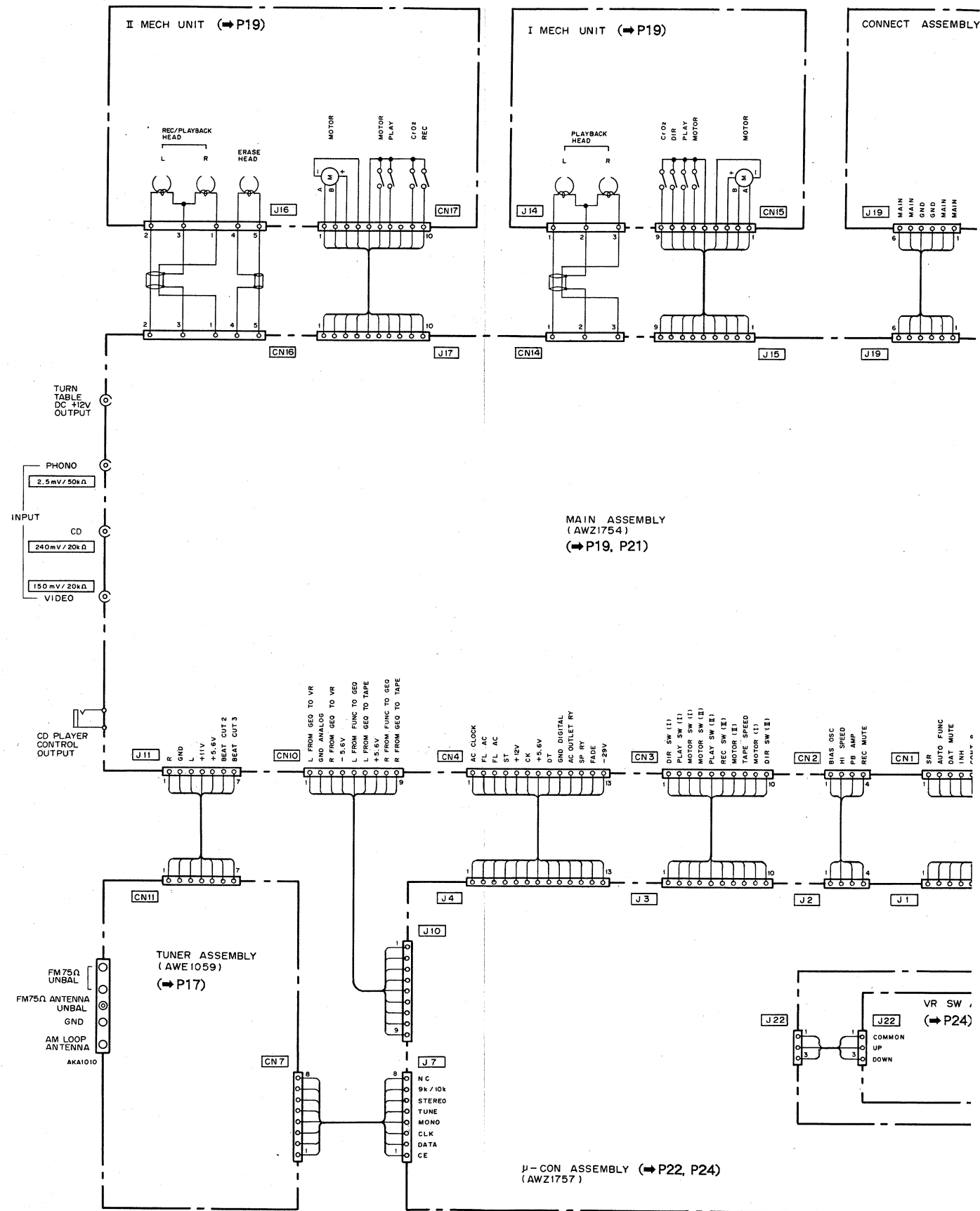
#### Parts List

Mark	No.	Part No.	Description
	1	AEA1002	Antenna set
	2	ARC1072	Operating instructions (Dutch/Swedish/Spanish/Portuguese) (HEI type)
		ARB1104	Operating instructions (English) (HB type)
	3	ARE1070	Operating instructions (English/German/French/Italian) (HEI type)
	4	AXD1045	Remote control unit
	5	AHA1146	Front pad
	6	AHA1147	Rear pad
	7	AHD1347	Packing case
	51		Battery
	52		Vinyl sheet



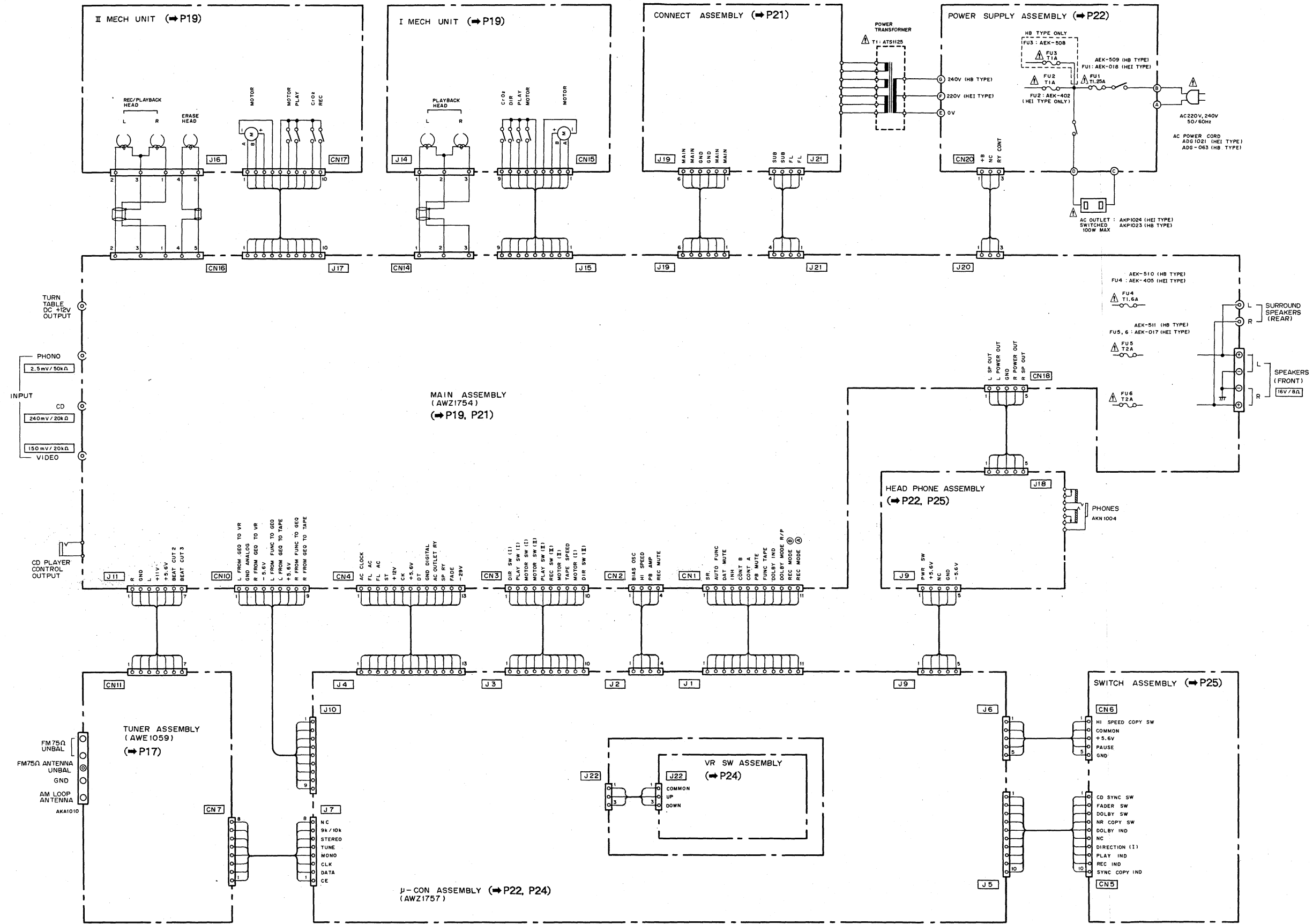
### 4. SCHEMATIC AND P.C.BOARDS DIAGRAM

#### 4.1 OVERALL WIRING DIAGRAM

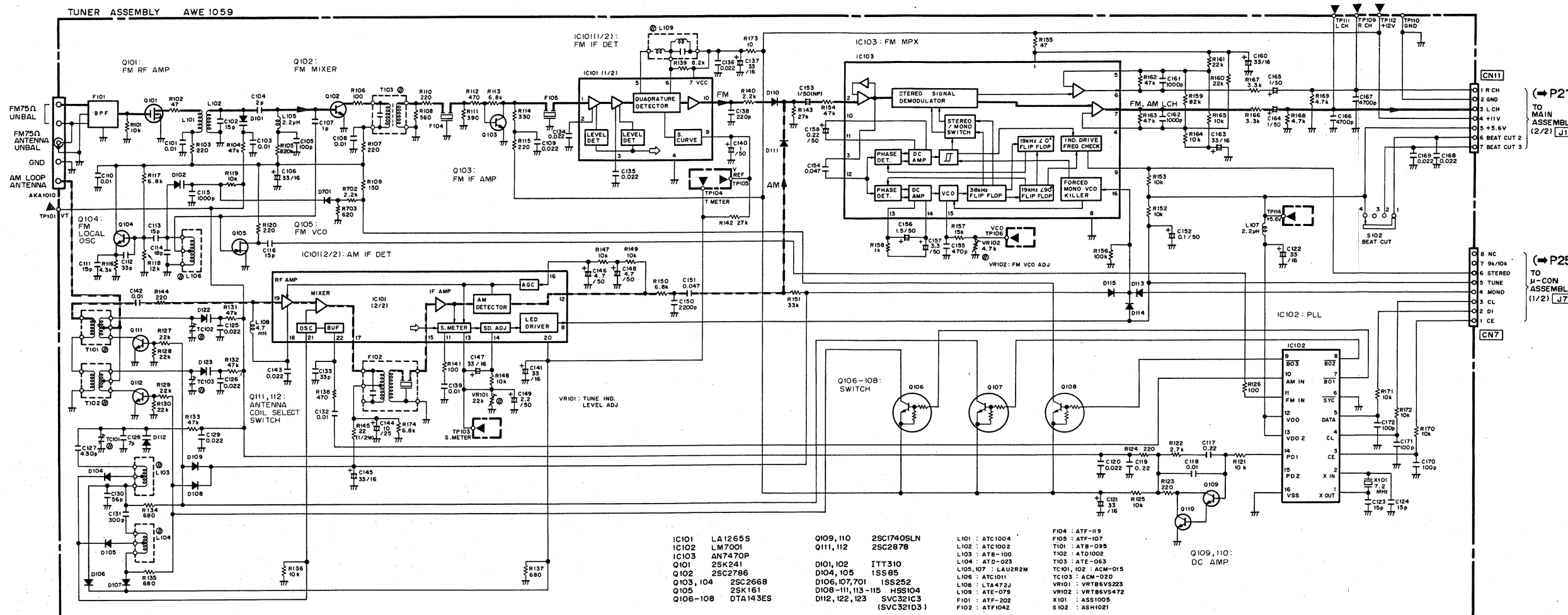


# 4. SCHEMATIC AND P.C.BOARDS DIAGRAM

## 4.1 OVERALL WIRING DIAGRAM

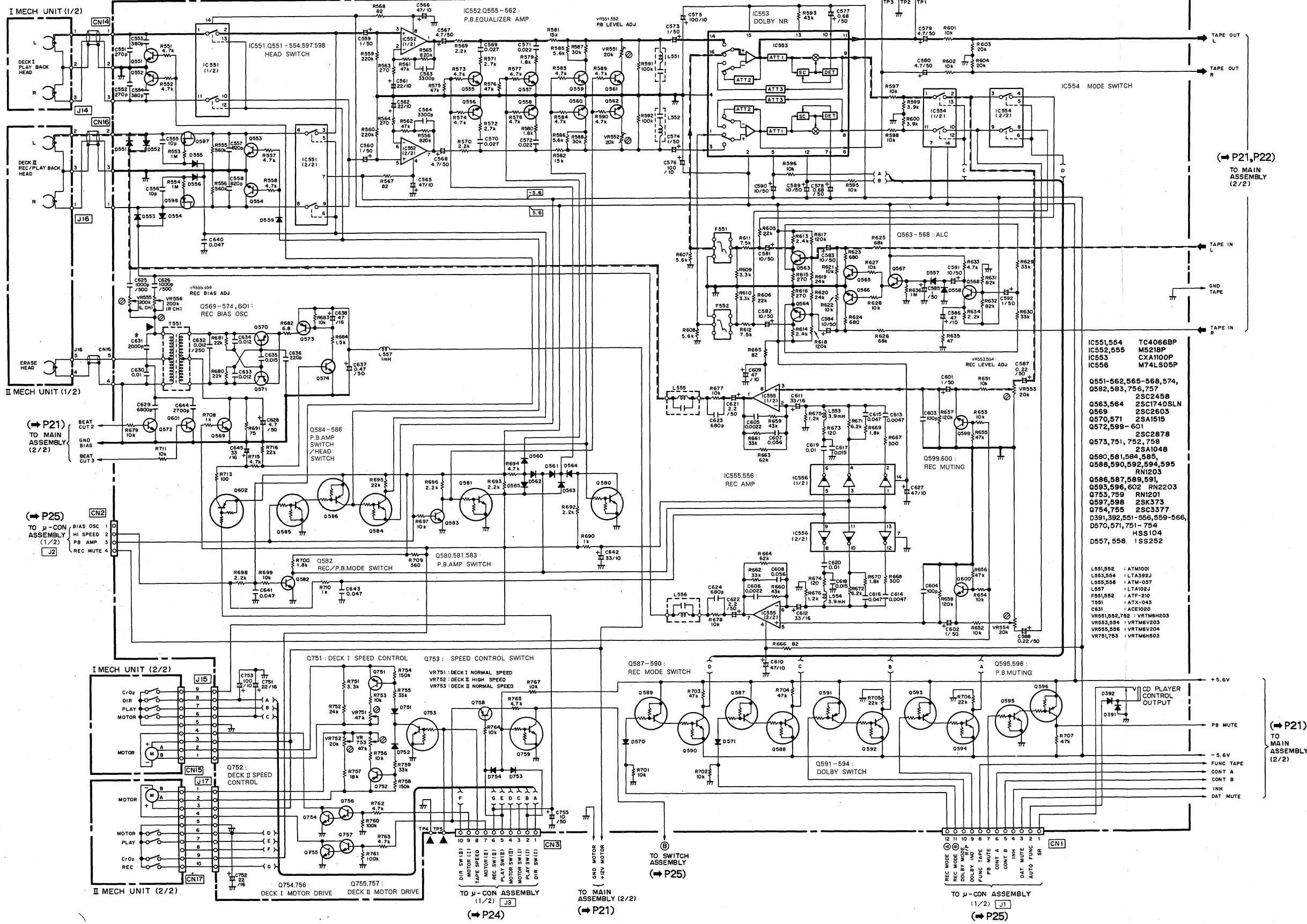


4.2 TUNER SECTION



4.3 TAPE DECK SECTION

MAIN ASSEMBLY (1/2) AWZ1754



- IC551,554 TC4066BP
- IC552,555 M5218P
- IC553 CXA1100P
- IC556 M74LS05P
- Q551-562,565-568,574,582,583,756,757 2SC2458
- Q563,564 2SC1740SLN
- Q569 2SC2603
- Q570,571 2SA1515
- Q572,599-601 2SC2878
- Q573,751,752,758 2SA1048
- Q580,581,584,585,588,590,592,594,595 RN1203
- Q586,587,589,591,593,596,602 RN2203
- Q753,759 RN1201
- Q597,598 2SK373
- Q754,755 2SC3377
- D391,392,551-556,559-566, D570,571,751-754 HSS104
- D557,558 1SS252
- L551,556 ATM1001
- L553,554 LTA392J
- L555,556 ATM-037
- L597 LTA102J
- F551,552 ATF-210
- T551 ATX-043
- C631 ACE1020
- VR551,552,752 VRTM6H203
- VR553,554 VRTM6V203
- VR555,556 VRTM6V204
- VR751,753 VRTM6H503

A

B

C

D

A

B

C

D

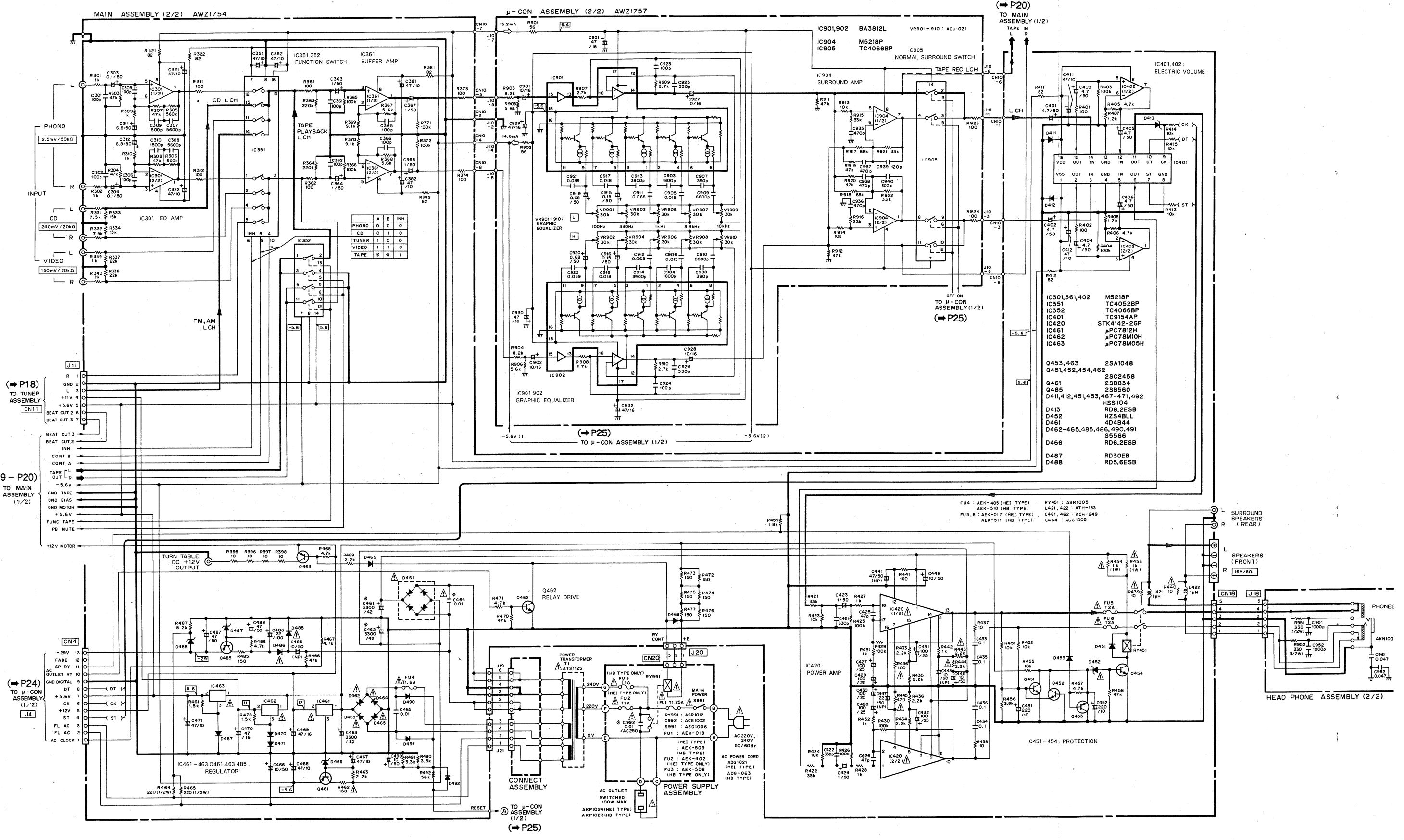
# 4.4 AMPLIFIER AND POWER SUPPLY SECTION

A

B

C

D



	A	B	INH
PHONO	0	0	0
CD	0	1	0
TUNER	1	0	0
VIDEO	1	1	0
TAPE	*	*	1

IC301,361,402	M5218P
IC351	TC4052BP
IC352	TC4066BP
IC401	STK4142-2GP
IC420	μPC7812H
IC461	μPC7810H
IC462	μPC78M05H
IC463	
Q453, 463	2SA1048
Q451, 452, 454, 462	2SC2458
Q461	2SB834
Q485	2SB560
D411, 412, 451, 453, 467-471, 492	HSS100
D413	RD8.2ESB
D452	HZS4BLL
D461	4D4B44
D462-465, 485, 486, 490, 491	SS566
D466	RD6.2ESB
D487	RD30EB
D488	RD5.6ESB

FU4	AEK-405 (HEI TYPE)	R451	ASR1005
FU5	AEK-510 (HMB TYPE)	L421, 422	ATH-133
FU5, 6	AEK-017 (HEI TYPE)	C461, 462	ACH-249
	AEK-511 (HMB TYPE)	C464	ACG1005

(HEI TYPE ONLY)	R499	ASR1010
(HEI TYPE ONLY)	FU3	AEK-102
(HMB TYPE)	FU2	AEK-102
(HMB TYPE)	FU1	AEK-018
(HMB TYPE)	FU2	AEK-402
(HMB TYPE)	FU3	AEK-508
(HMB TYPE)	FU4	ADD-063

1

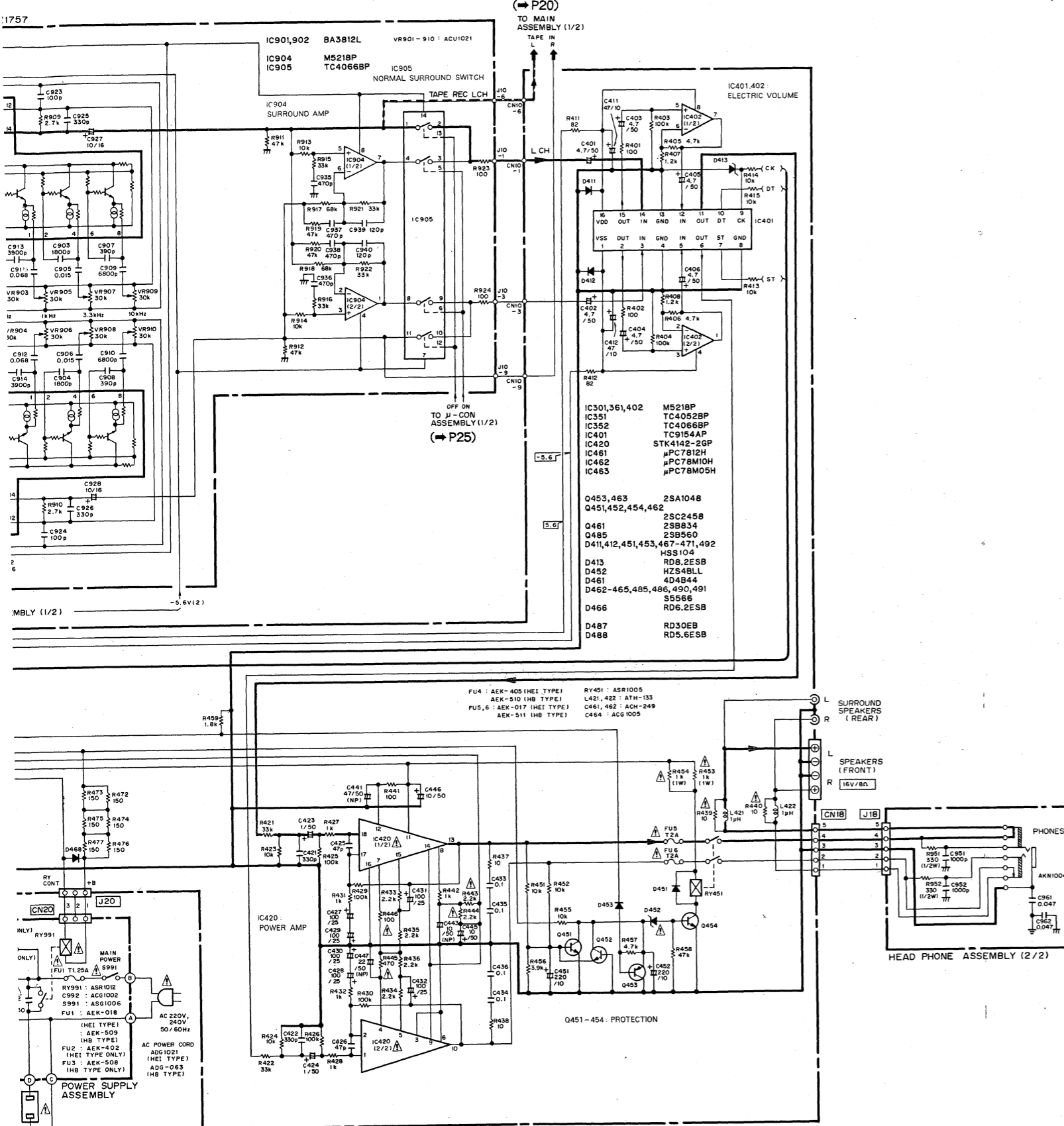
2

3

4

5

6



1. RESISTORS :

Indicated in Ω, 1/4W, 1/6W and 1/8W, ±5% tolerance unless otherwise noted k ; kΩ, M ; MΩ, (F) ; ±1%, (G) ; ±2%, (K) ; ±10%, (M) ; ±20% tolerance.

2. CAPACITORS :

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

3. VOLTAGE, CURRENT :

$\overline{V}$  ; Signal voltage at 32W + 32W, 8Ω output (1kHz).  
 $\underline{V}$  ; DC voltage (V) at no input signal.  
 Value in ( ) is DC voltage at rated power.  
 $\overline{mA}$  ; DC current at no input signal.  
 $\underline{mV}$  ; Signal voltage at FM 400Hz ± 75Hz DEV.

4. OTHERS :

$\Rightarrow$  ; Signal route.  
 $\otimes$  ; 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.

5. SWITCHES : (The underlined indicates the switch position)

- |                           |                               |
|---------------------------|-------------------------------|
| MIC AMP ASSEMBLY          | μ - CON ASSEMBLY              |
| S951 : POWER (STANDBY/ON) | S801 : VIDEO                  |
| VR SW ASSEMBLY            | S803 : 4/16                   |
| S981 : VOLUME UP - DOWN   | S804 : 10/22                  |
| TUNER ASSEMBLY            | S805 : TUNING -               |
| S101 : BEAT CUT 1-2-3     | S806 : CD                     |
| SWITCH ASSEMBLY           | S808 : 5/17                   |
| S501 : NORMAL COPY        | S809 : 11/23                  |
| S502 : DOLBY NR           | S810 : TUNING +               |
| S504 : CD SYNCHRO REC     | S811 : PHONO                  |
| S505 : HIGH SPEED COPY    | S812 : 6/18                   |
| S506 : PAUSE              | S813 : 12/24                  |
| POWER SUPPLY ASSEMBLY     | S814 : TAPE                   |
| S991 : MAIN POWER         | S815 : 1/13                   |
|                           | S816 : 7/19                   |
|                           | S817 : FM MONO (CLOCK)        |
|                           | S818 : BAND (SLEEP)           |
|                           | S819 : TUNER                  |
|                           | S820 : 2/14                   |
|                           | S821 : 8/20                   |
|                           | S822 : CLOCK/FREQ             |
|                           | S823 : MEMORY (SET)           |
|                           | S824 : SURROUND & STEREO WIDE |
|                           | S825 : 3/15                   |
|                           | S826 : 9/21                   |
|                           | S827 : WAKE - UP ] TIMER      |
|                           | S828 : ONCE                   |

A

B

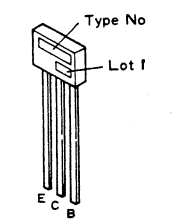
C

D

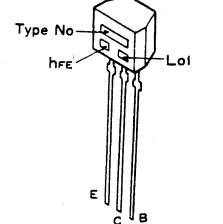


4.5 CONTROL SECTION

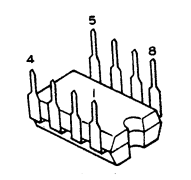
RN1201  
RN1203  
RN2201  
RN2203



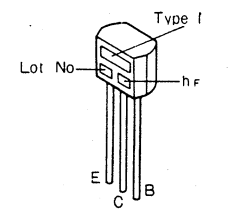
2SA1048  
2SC2458



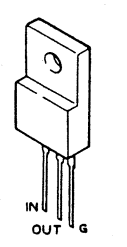
M5218P



2SC2603



μ PC78M11

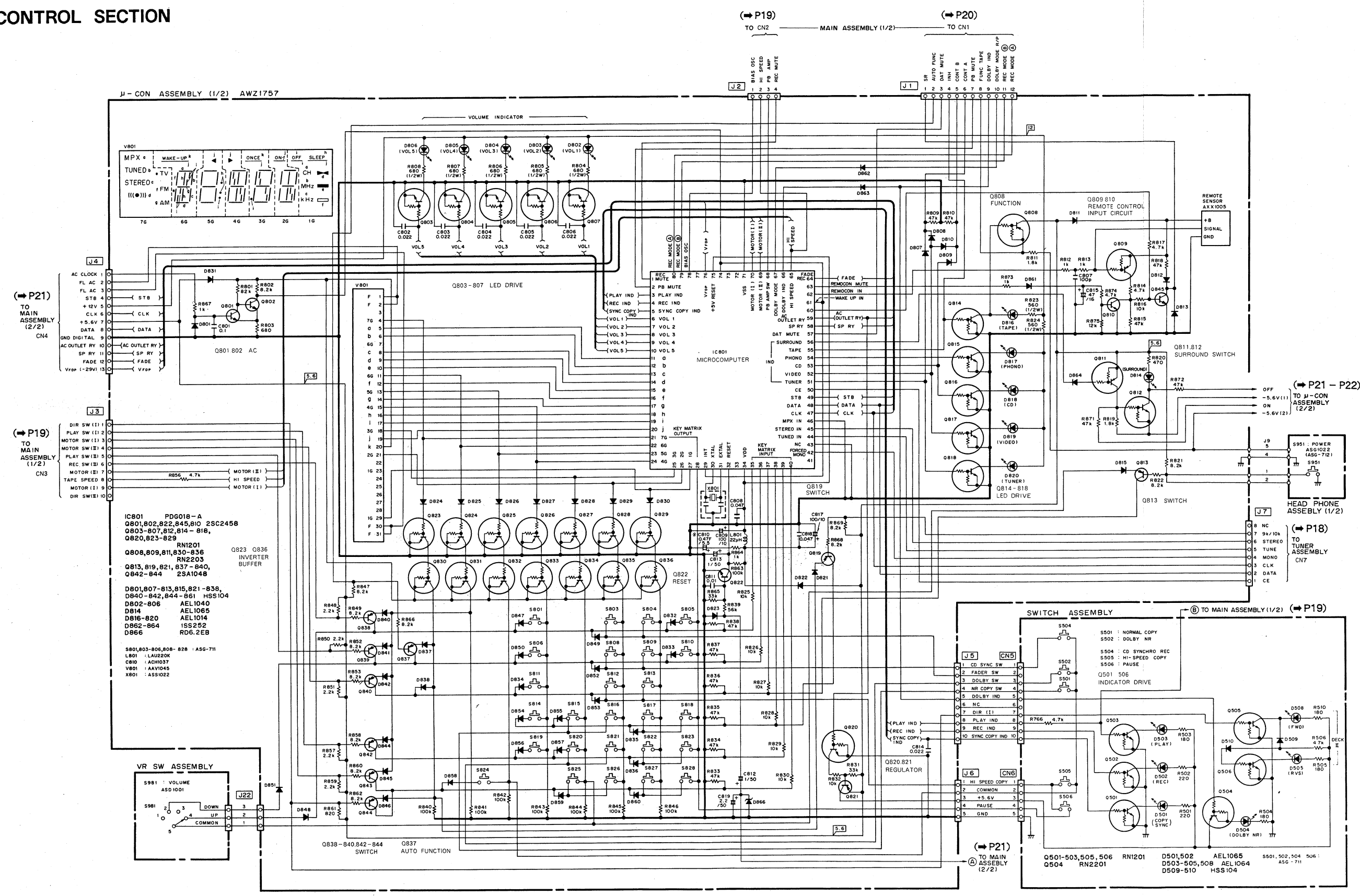


A

B

C

D



μ-CON ASSEMBLY (1/2) AWZ1757

(P19) TO CN2 MAIN ASSEMBLY (1/2) (P20) TO CN1

(P21) TO MAIN ASSEMBLY (2/2) CN4

(P19) TO MAIN ASSEMBLY (1/2) CN3

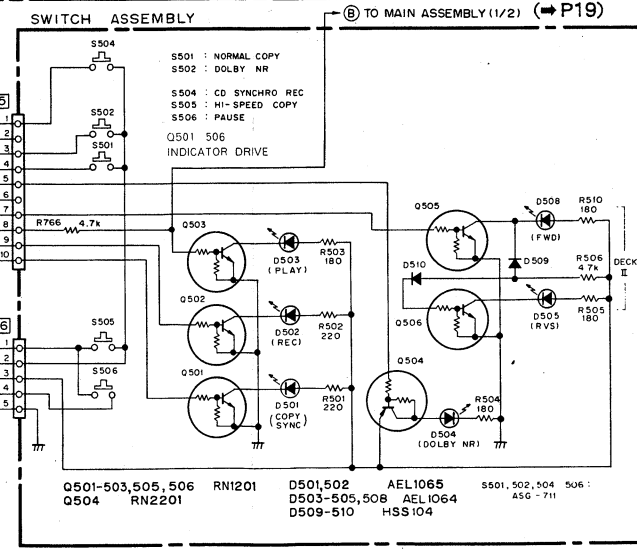
(P21 - P22) TO μ-CON ASSEMBLY (2/2)

(P18) TO TUNER ASSEMBLY CN7

(P19) TO MAIN ASSEMBLY (1/2)

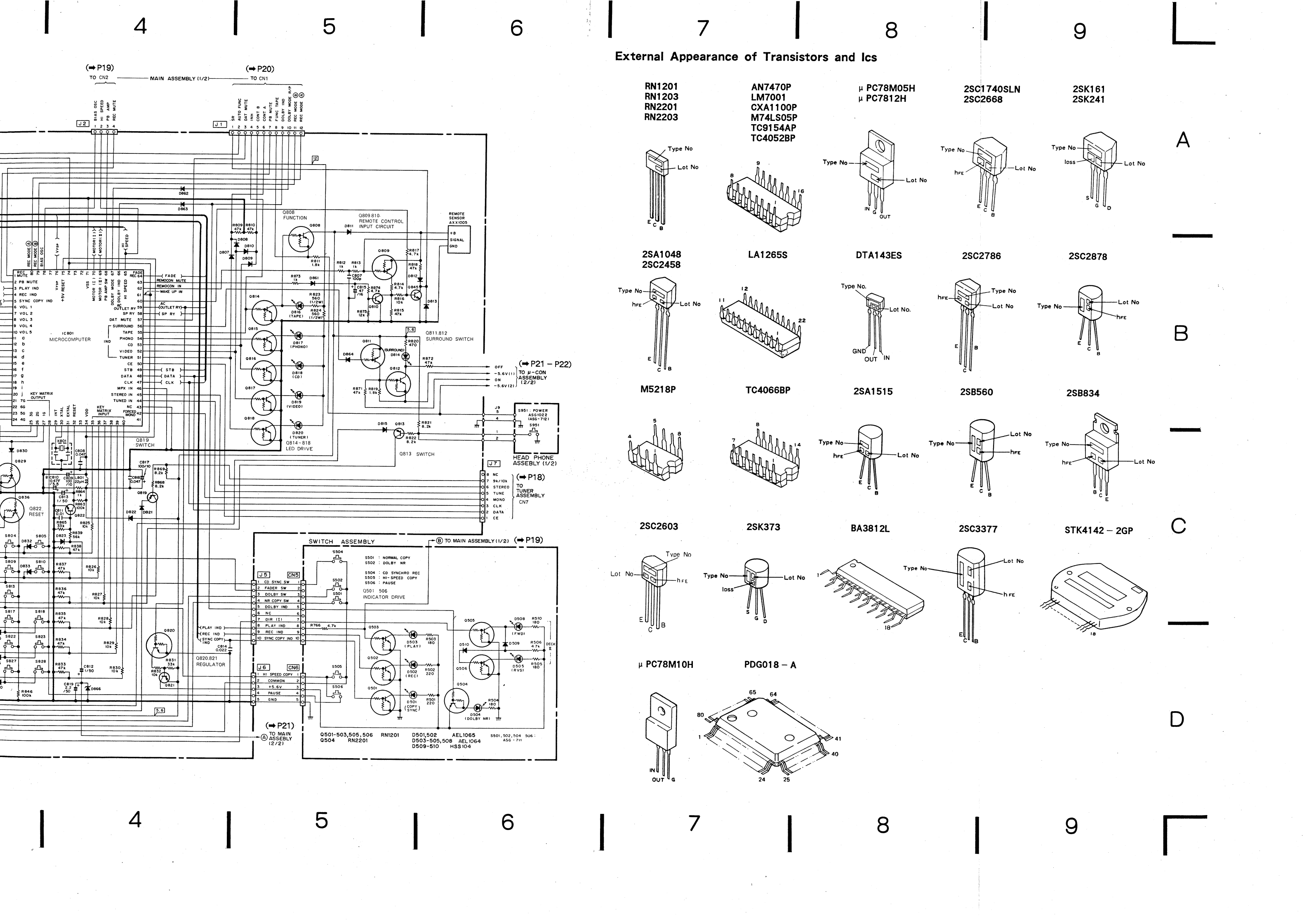
(P21) TO MAIN ASSEMBLY (2/2)

VR SW ASSEMBLY ASD1001



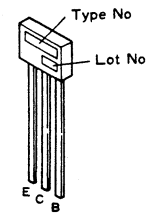
Q501-503, 505, 506 RN1201 D501, 502 AEL1065  
Q504 RN2201 D503-505, 508 AEL1064  
D509-510 HSS104

IC801 PDG018-A  
Q801,802,822,845,810 2SC2458  
Q803-807,812,814-818, Q820,823-829 RN1201  
Q808,809,811,830-836 Q823 Q836  
RN2203 INVERTER BUFFER  
Q813,819,821,837-840, Q842-844 2SA1048  
D801,807-813,815,821-838, D840-842,844-861 HSS104  
D802-806 AEL1040  
D814-820 AEL1065  
D816-824 AEL1014  
D862-864 ISS252  
D866 RDS.2EB  
S801,803-806,808-828 ASG-711  
L801 LAU220K  
C810 ACH1037  
V801 JAV1045  
X801 ASS1022

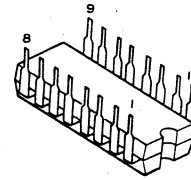


External Appearance of Transistors and Ics

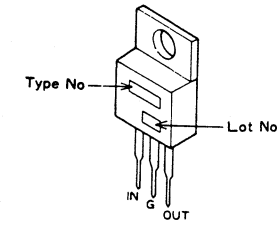
RN1201  
RN1203  
RN2201  
RN2203



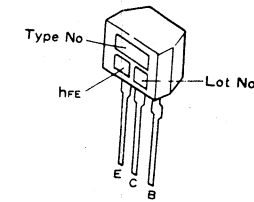
AN7470P  
LM7001  
CXA1100P  
M74LS05P  
TC9154AP  
TC4052BP



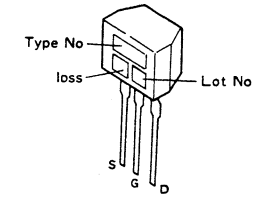
μ PC78M05H  
μ PC7812H



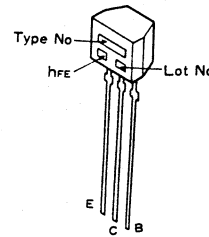
2SC1740SLN  
2SC2668



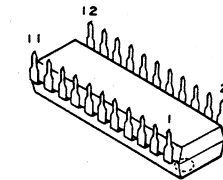
2SK161  
2SK241



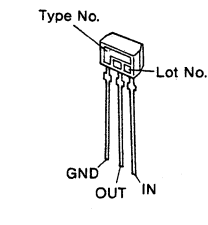
2SA1048  
2SC2458



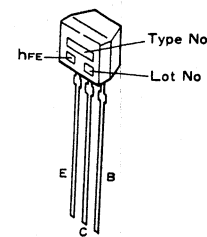
LA1265S



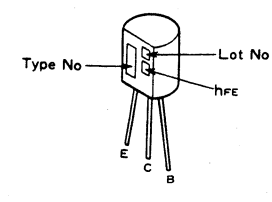
DTA143ES



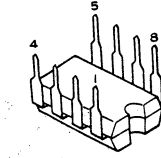
2SC2786



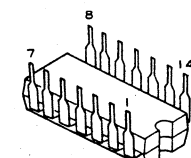
2SC2878



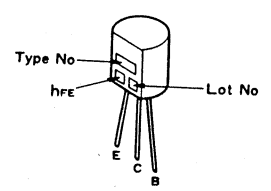
M5218P



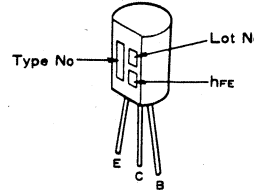
TC4066BP



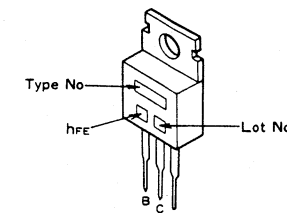
2SA1515



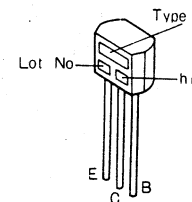
2SB560



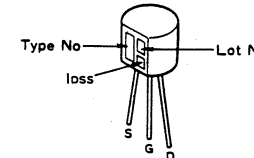
2SB834



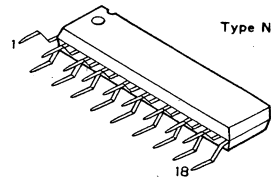
2SC2603



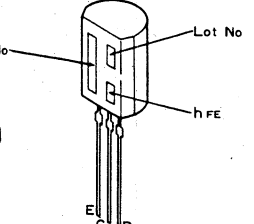
2SK373



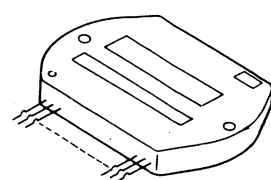
BA3812L



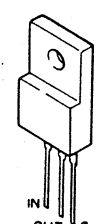
2SC3377



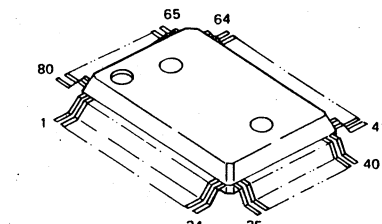
STK4142-2GP



μ PC78M10H



PDG018-A



A

B

C

D

1

2

3

4

5

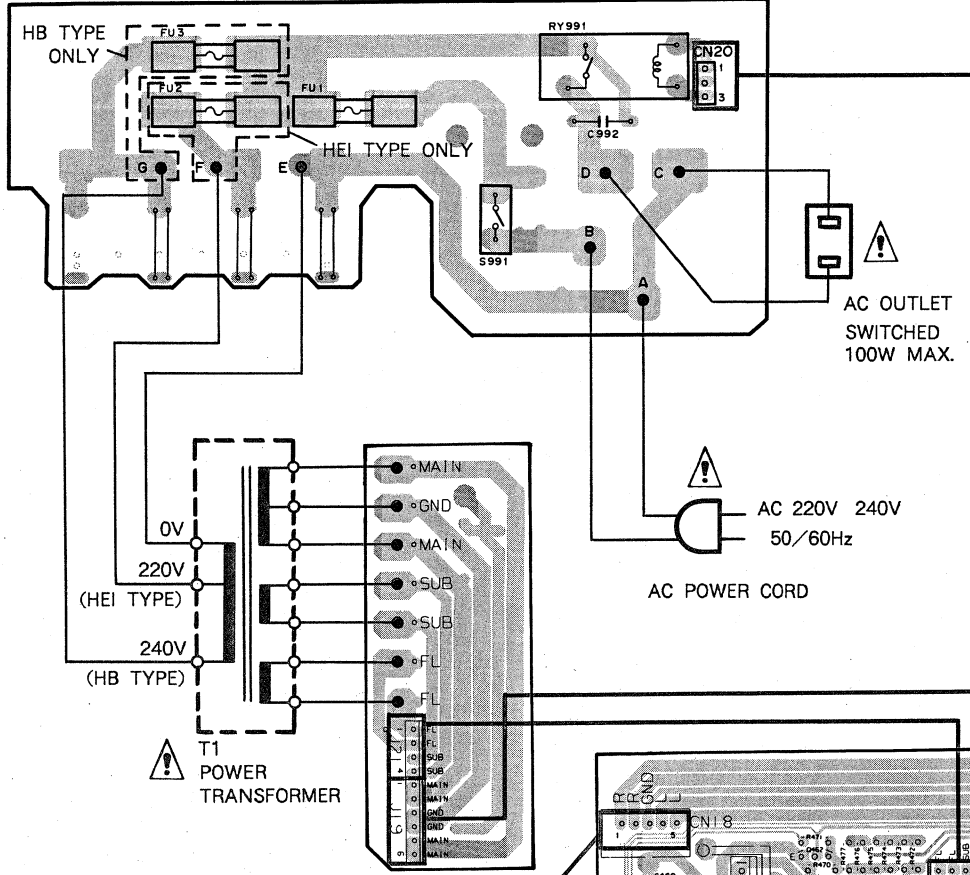
6

7

A

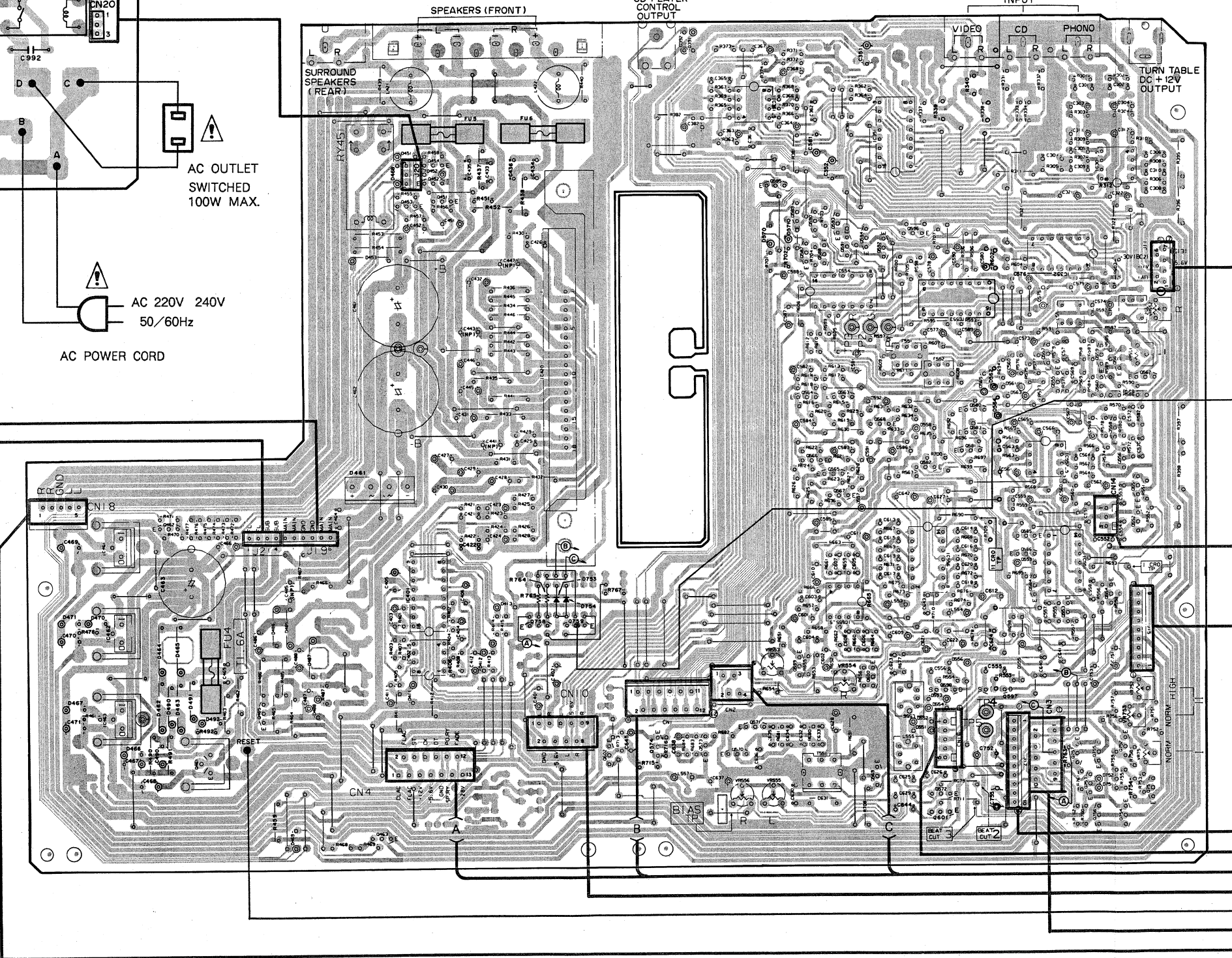
B

POWER SUPPLY ASSEMBLY

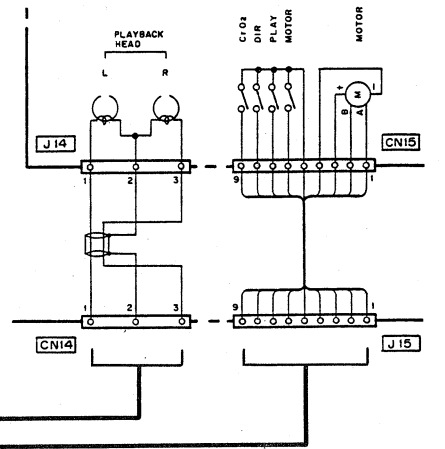


CONNECT ASSEMBLY

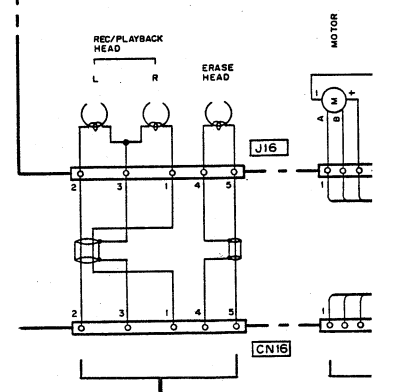
MAIN ASSEMBLY (AWZ1754)



Tape Transport Unit (DECK I)



Tape Transport Unit (DECK II)



IC461	Q461	Q485	Q463	Q451-Q454	Q758 Q759	Q587-Q594	IC553 Q580	IC352	Q558-Q562	IC301
IC462				IC401	IC420	IC554	IC556 Q581	Q557 Q555	Q551	Q552
IC463				IC402		Q563-Q567	IC351 Q601	IC552	Q554	Q555
						Q595 Q599	IC351 Q601	IC551 Q751-Q757	Q553	Q556
						Q569	Q596 Q572	Q597 Q584-Q586		
						VR556 VR555 VR553	VR554	TP4	VR552	VR551
							TP3 TP2 TP1	TP5	VR751-VR753	

1

2

3

4

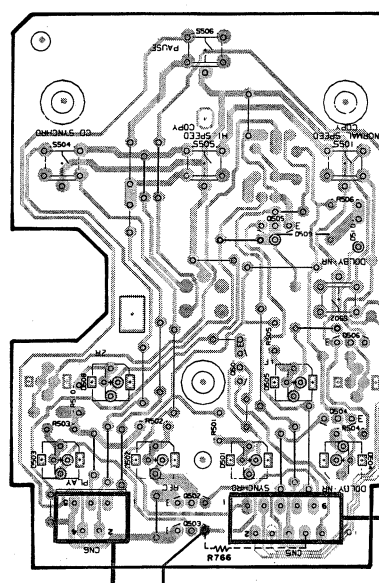
5

6

7

Q502 Q505 Q506  
Q503 Q501 Q504

**SWITCH ASSEMBLY**



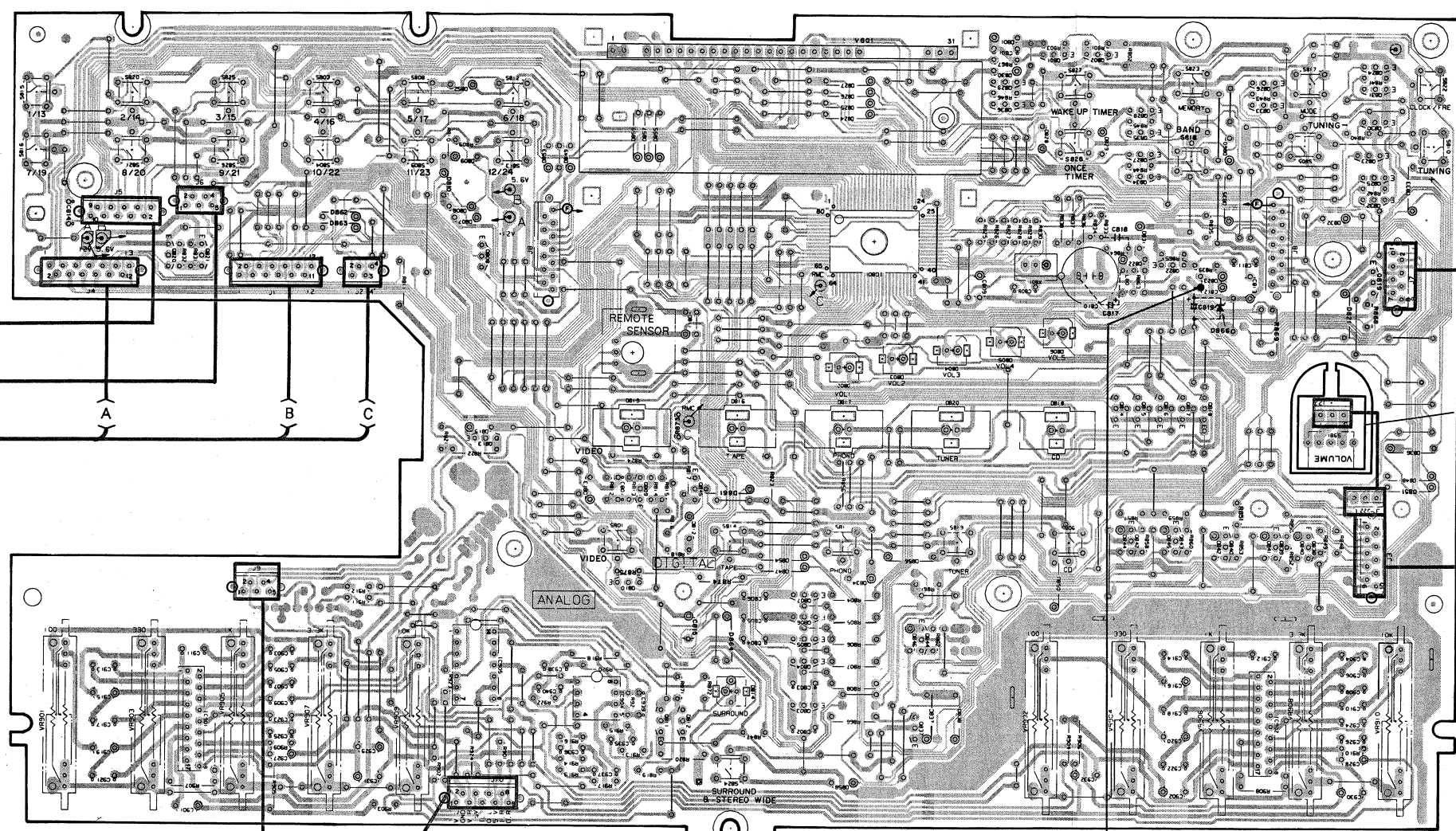
**μ - CON ASSEMBLY (AWZ1757)**

Q820 Q821 IC901 VR901 VR903 VR905 VR907 VR909 VR911

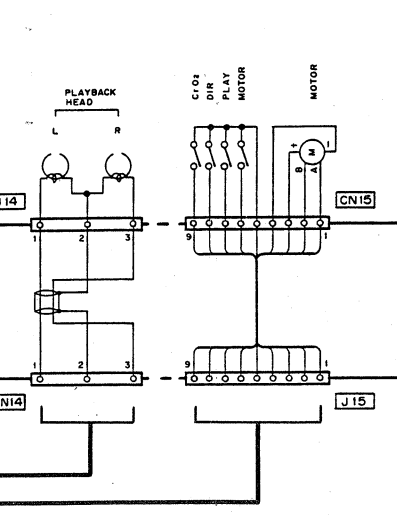
Q808 Q813 IC905 Q809 Q810-Q812 IC904 Q845 Q803-Q807 IC801 Q844 Q829 Q836 Q801 Q802 Q842 Q843 Q840 IC902 Q838 Q819 Q830-Q832 Q823-Q825

Q835 Q827 Q828 Q834 Q822 Q826 Q814-Q818 Q833 Q839 Q840 IC902 Q838 Q819 Q830-Q832 Q823-Q825

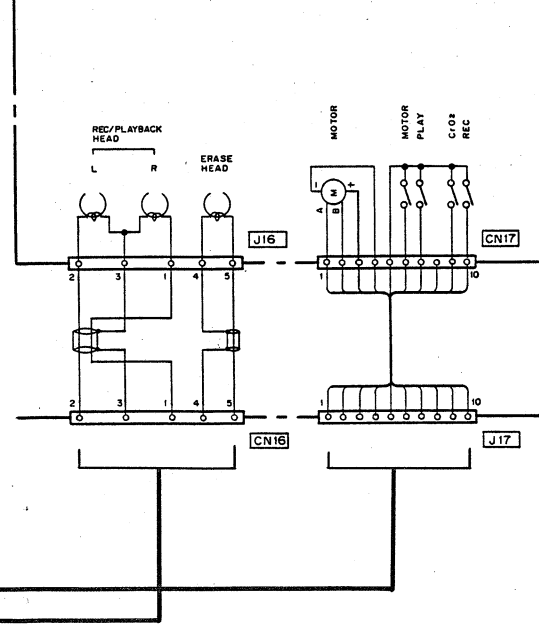
VR902 VR904 VR906 VR908 VR910



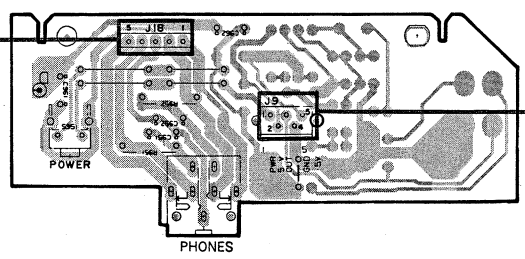
**Tape Transport Unit (DECK I)**



**Tape Transport Unit (DECK II)**



**HEADPHONE ASSEMBLY**



A

B

C

D

A

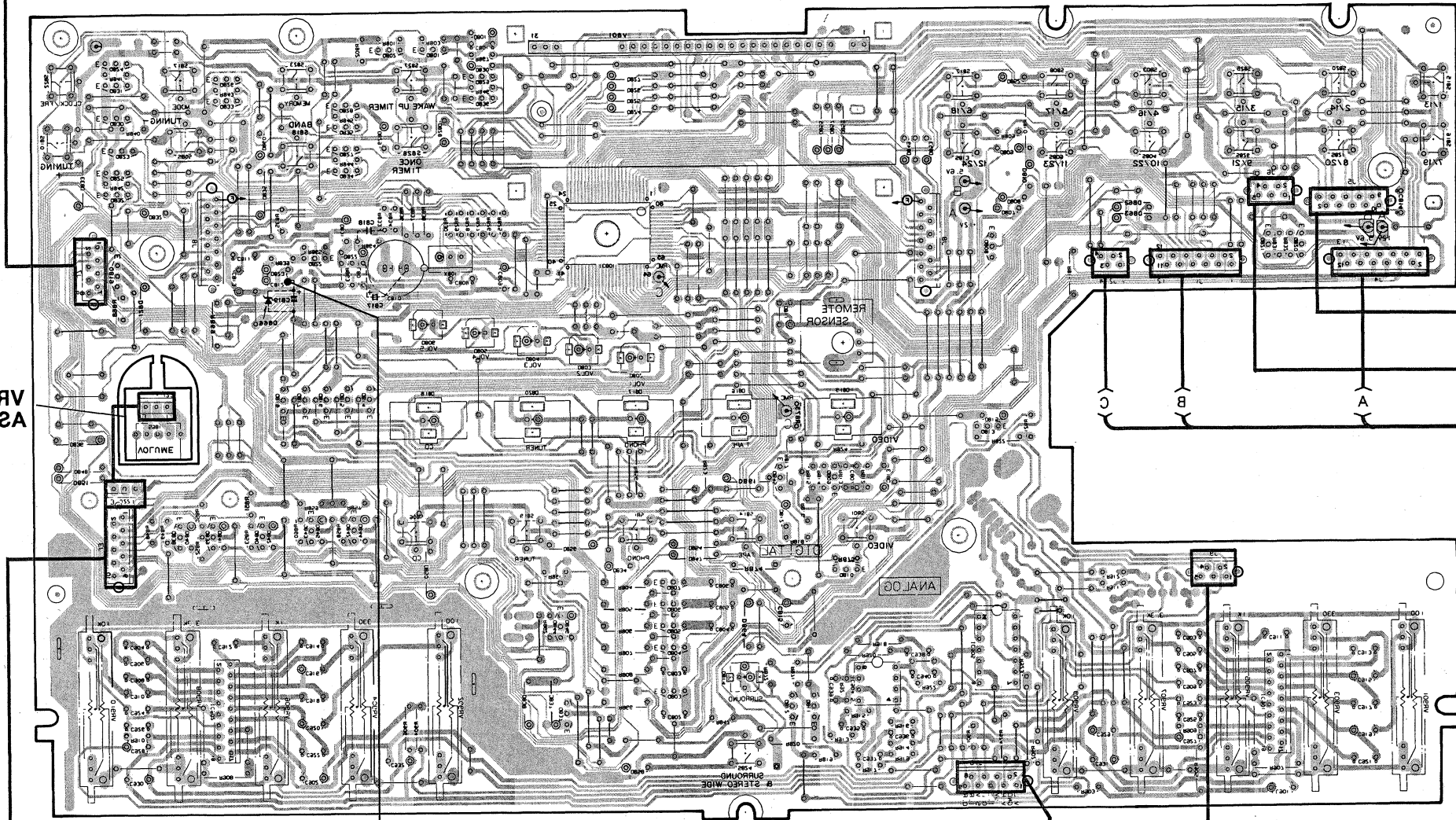
B

C

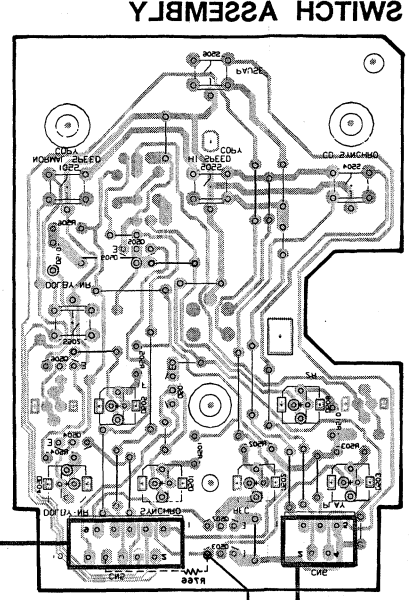
D

h - CON ASSEMBLY (AW2127)

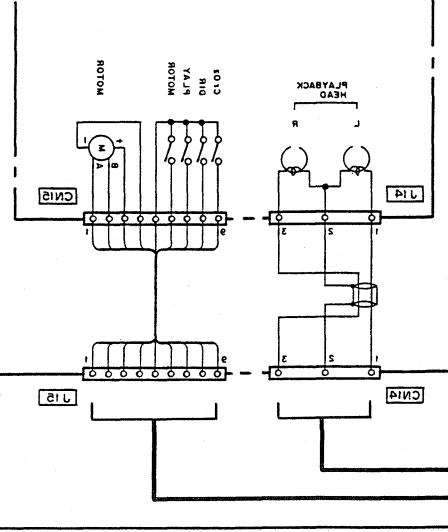
- VR901 VR902 VR903 VR904 VR905 VR906 VR907 VR908 VR909 VR910
- IC901 IC902 IC903 IC904 IC905 IC906 IC907 IC908 IC909 IC910
- Q801 Q802 Q803 Q804 Q805 Q806 Q807 Q808 Q809 Q810
- Q811 Q812 Q813 Q814 Q815 Q816 Q817 Q818 Q819 Q820
- Q821 Q822 Q823 Q824 Q825 Q826 Q827 Q828 Q829 Q830
- Q831 Q832 Q833 Q834 Q835 Q836 Q837 Q838 Q839 Q840
- Q841 Q842 Q843 Q844 Q845 Q846 Q847 Q848 Q849 Q850
- Q851 Q852 Q853 Q854 Q855 Q856 Q857 Q858 Q859 Q860
- Q861 Q862 Q863 Q864 Q865 Q866 Q867 Q868 Q869 Q870
- Q871 Q872 Q873 Q874 Q875 Q876 Q877 Q878 Q879 Q880
- Q881 Q882 Q883 Q884 Q885 Q886 Q887 Q888 Q889 Q890
- Q891 Q892 Q893 Q894 Q895 Q896 Q897 Q898 Q899 Q900
- Q901 Q902 Q903 Q904 Q905 Q906 Q907 Q908 Q909 Q910
- Q911 Q912 Q913 Q914 Q915 Q916 Q917 Q918 Q919 Q920
- Q921 Q922 Q923 Q924 Q925 Q926 Q927 Q928 Q929 Q930
- Q931 Q932 Q933 Q934 Q935 Q936 Q937 Q938 Q939 Q940
- Q941 Q942 Q943 Q944 Q945 Q946 Q947 Q948 Q949 Q950
- Q951 Q952 Q953 Q954 Q955 Q956 Q957 Q958 Q959 Q960
- Q961 Q962 Q963 Q964 Q965 Q966 Q967 Q968 Q969 Q970
- Q971 Q972 Q973 Q974 Q975 Q976 Q977 Q978 Q979 Q980
- Q981 Q982 Q983 Q984 Q985 Q986 Q987 Q988 Q989 Q990
- Q991 Q992 Q993 Q994 Q995 Q996 Q997 Q998 Q999 Q1000



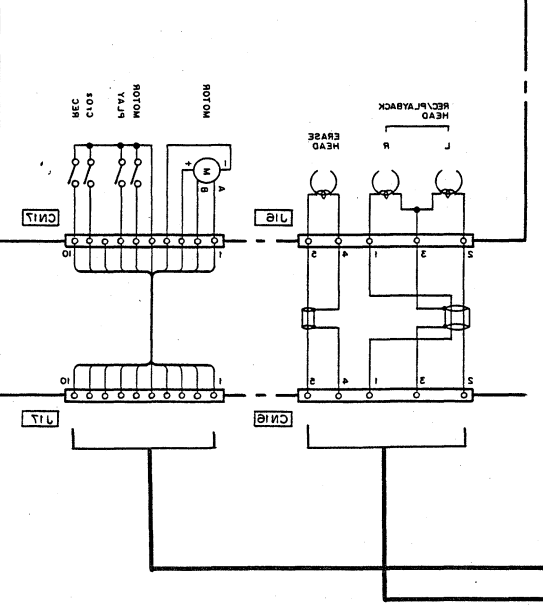
SWITCH ASSEMBLY



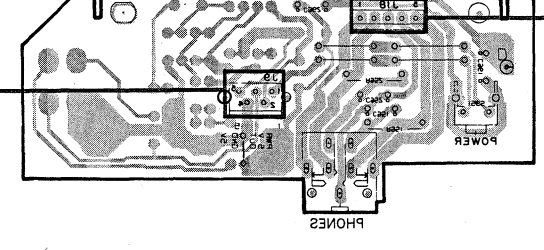
Deck I (Tape Transport Unit)



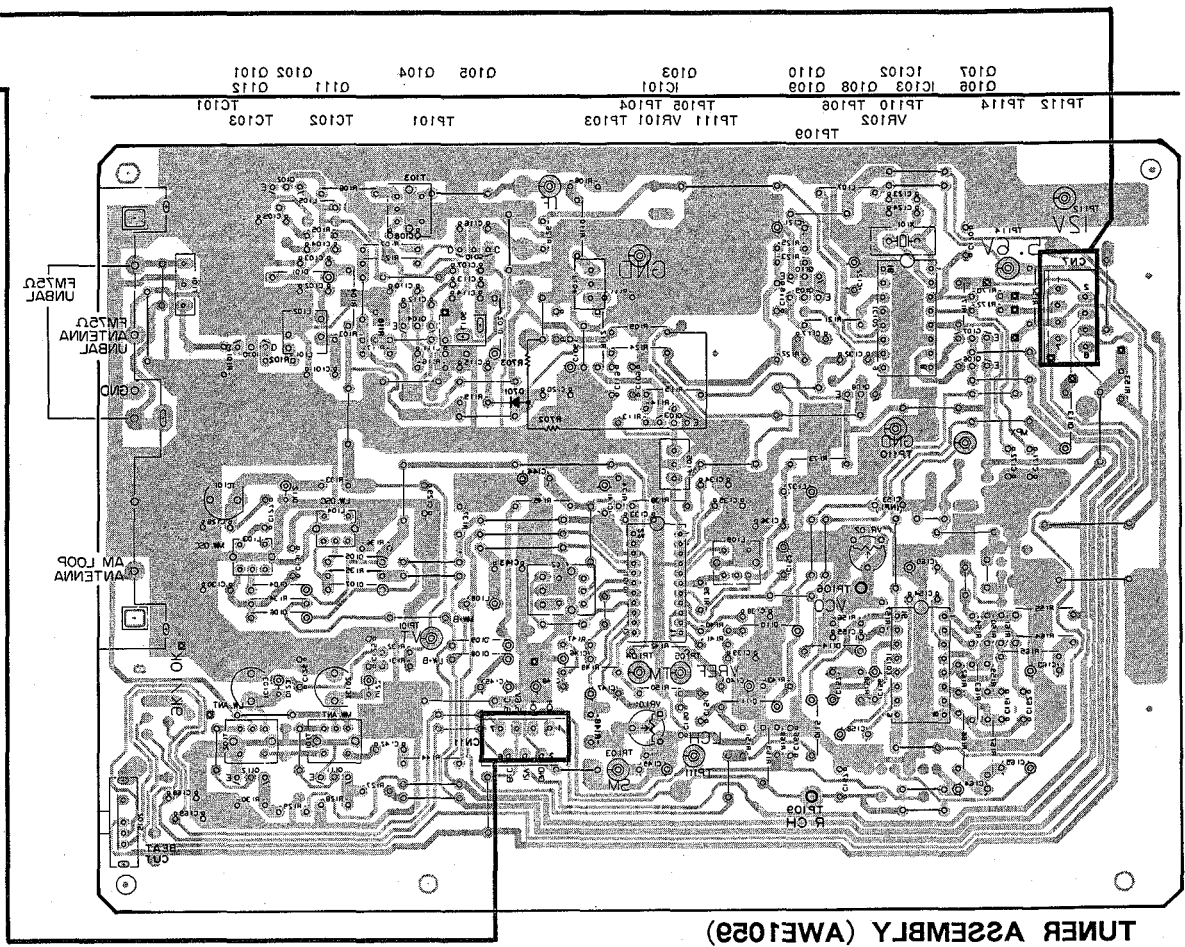
Deck II (Tape Transport Unit)



HEADPHONE ASSEMBLY







TUNER ASSEMBLY (AWE1029)

NOTE

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

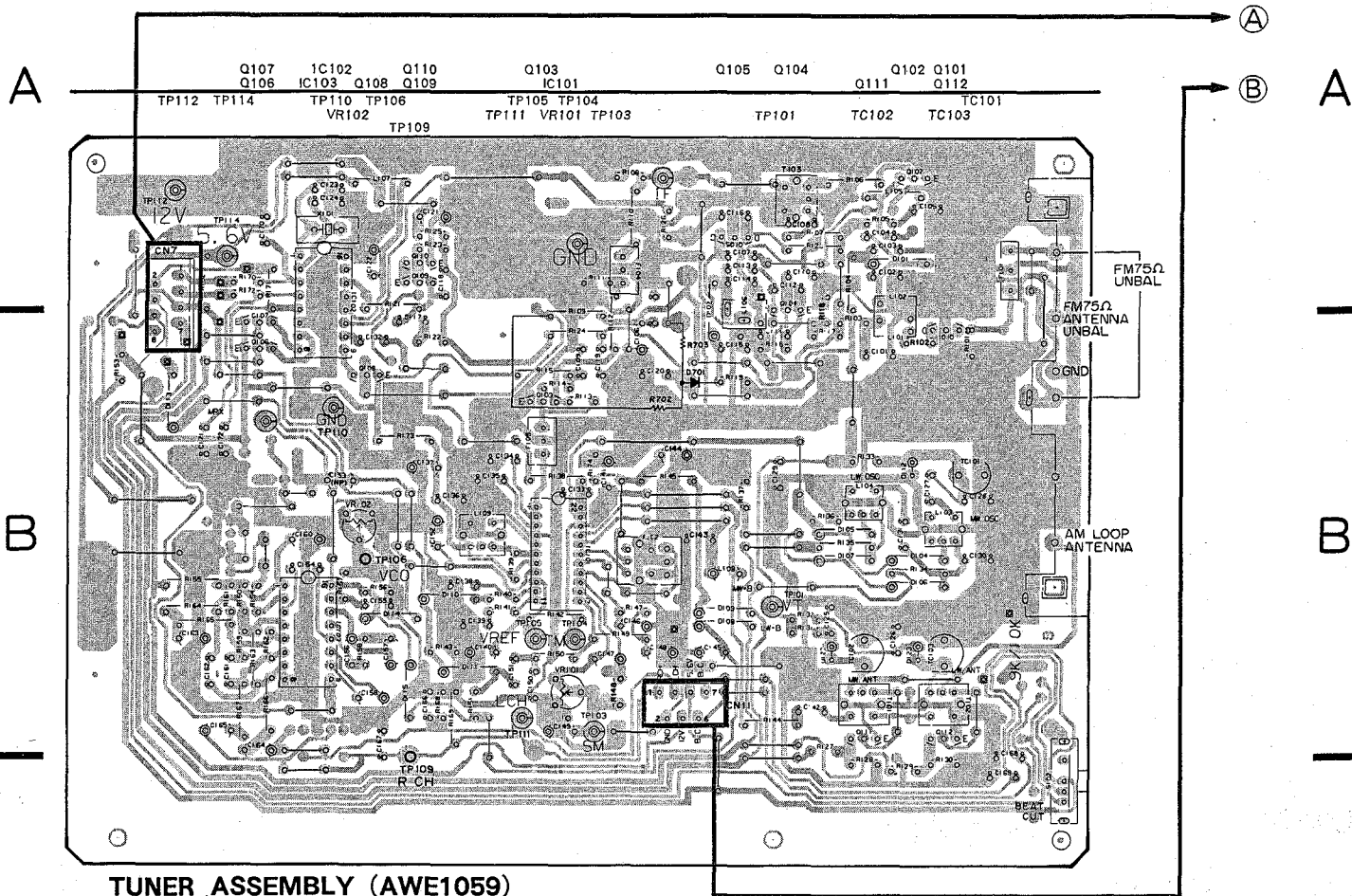
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

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

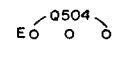
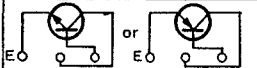
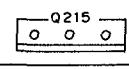
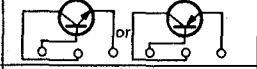
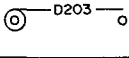
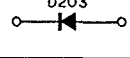
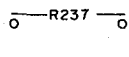
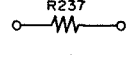
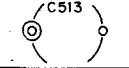
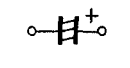
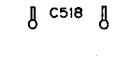
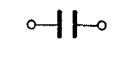
3. The capacitor terminal marked with ⊙ (double circles) shows negative terminal.
4. The diode terminal marked with ⊙ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

### 4.6 P.C.BOARDS CONNECTION DIAGRAM



**C NOTE**

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

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

**Others**

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

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



# 5. 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  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your parts Stock Control, the fast moving items are indicated with the marks  $\star\star$  and  $\star$ .  
 $\star\star$  **GENERALLY MOVES FASTER THAN  $\star$**

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- 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  $\Omega$   $\rightarrow$  56  $\times$  10<sup>1</sup>  $\rightarrow$  561 ..... RD1/4PS[5]6[1]J

47k  $\Omega$   $\rightarrow$  47  $\times$  10<sup>3</sup>  $\rightarrow$  473 ..... RD1/4PS[4]7[3]J

0.5  $\Omega$   $\rightarrow$  0R5 ..... RN2H[0]R[5]K

1  $\Omega$   $\rightarrow$  010 ..... RS1P[0]1[0]K

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

5.62k  $\Omega$   $\rightarrow$  562  $\times$  10<sup>1</sup>  $\rightarrow$  5621 ..... RN1/4SR[5]6[2]1]F

## Miscellaneous Parts

Mark	Symbol & Description	Part No.
	TUNER assembly	AWE1059
	MAIN assembly	AWZ1754
	$\mu$ - CON assembly	AWZ1757
	HEADPHONE assembly	
	POWER SUPPLY assembly	
	SWITCH assembly	
	VR SW assembly	
	CONNECT assembly	
$\Delta$ $\star$	T1 Power transformer	ATS1125
$\Delta$ $\star\star$	FU5, FU6 Fuse (T2A/250V) (HEI type)	AEK-017
$\Delta$ $\star\star$	FU5, FU6 Fuse (T2A/250V) (HB type)	AEK-511
$\Delta$ $\star\star$	FU1 Fuse (T1.25A/250V) (HEI type)	AEK-018
$\Delta$ $\star\star$	FU1 Fuse (T1.25A/250V) (HB type)	AEK-509
$\Delta$ $\star\star$	FU2 Fuse (T1A/250V) (HEI type only)	AEK-402
$\Delta$ $\star\star$	FU3 Fuse (T1A/250V) (HB type only)	AEK-508
$\Delta$ $\star\star$	FU4 Fuse (T1.6A/250V) (HEI type)	AEK-405
$\Delta$ $\star\star$	FU4 Fuse (T1.6A/250V) (HB type)	AEK-510
$\Delta$	AC socket (AC OUTLET) (HEI type)	AKP1024
$\Delta$	AC socket (AC OUTLET) (HB type)	AKP1023
$\Delta$	AC power cord (HEI type)	ADG1021
$\Delta$	AC power cord (HB type)	ADG-063

## Tape Transport Unit (DECK I)

Mark	Symbol & Description	Part No.
$\star\star$	Motor	AZX1022
$\star\star$	Leaf switch	AZS1063
$\star\star$	Leaf switch	AZS1064
$\star\star$	Leaf switch	AZS1065
$\star\star$	Playback head	AZP1026

## Tape Transport Unit (DECK II)

Mark	Symbol & Description	Part No.
$\star\star$	Motor	AZX1019
$\star\star$	Leaf switch (MOTOR)	AZS1059
$\star\star$	Leaf switch (PLAY)	AZS1060
$\star\star$	Leaf switch (CrO <sub>2</sub> )	AZS1061
$\star\star$	Leaf switch (REC)	AZS1062
$\star\star$	REC/PLAYBACK head	AZP1024
$\star\star$	Erase head	AZP1025

**TUNER Assembly (AWE1059)**

**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC103	AN7470P
★★	IC101	LA1265S
★★	IC102	LM7001
★★	Q106 - Q108	DTA143ES
★★	Q109,Q110	2SC1740SLN
★★	Q103,Q104	2SC2668
★★	Q102	2SC2786
★★	Q111,Q112	2SC2878
★★	Q105	2SK161
★★	Q101	2SK241
★	D101,D102	ITT310
★	D112,D122,D123	SVC321C3 (SVC321D3)
★	D106,D107,D701	1SS252
★	D104,D105	1SS85
★	D108 - D111,D113 - D115	HSS104

**SWITCH**

Mark	Symbol & Description	Part No.
★★	S102 Slide switch (BEAT CUT)	ASH1021

**COILS, FILTERS AND TRANSFORMERS**

Mark	Symbol & Description	Part No.
	L103 AM OSC Coil	ATB-100
	L102 FM Coil	ATC1002
	L101 FM Coil	ATC1004
	L106 FM Coil	ATC1011
	L104 LW OSC Coil	ATD-023
	L109 FM Detector coil	ATE-079
	L105,L107 Axial inductor	LAU2R2M
	L108 Inductor	LTA472J
	F105 FM Ceramic filter	ATF-107
	F104 FM Ceramic filter	ATF-119
	F101 FM Bandpass filter	ATF-202
	F102 AM Ceramic filter	ATF1042
	T101 AM Antenna transformer	ATB-095
	T102 LW Antenna transformer	ATD1002
	T103 FM Matching transformer	ATE-063

**CAPACITORS**

Mark	Symbol & Description	Part No.
	TC101,TC102 Ceramic trimmer	ACM-015
	TC103 Ceramic trimmer	ACM-020
	C107	CCDCH010C50
	C104	CCDCH020C50
	C130	CCDCH560J50
	C102	CCDRH150J50
	C114	CCDTH180J50
	C128	CCMCH070D50
	C113	CCMCH150D50
	C111,C116,C123,C124	CCMCH150J50

Mark	Symbol & Description	Part No.
	C112,C133	CCMCH330J50
	C105,C170 - C172	CCMSL101J50
	C153	CEANP010M50
	C158	CEASR22M50
	C152	CEASOR1M50
	C140,C164,C165	CEASO10M50
	C156	CEAS1R5M50
	C144	CEAS100M25
	C149	CEAS2R2M50
	C157	CEAS3R3M50
	C146,C148	CEAS4R7M50
	C106,C121,C122,C137,C141,C145, C147,C160,C163	CEAS330M16
	C117,C119	CFTXA224J50
	C115,C161,C162	CKDYB102K50
	C166,C167	CKDYB472K50
	C101,C103,C108,C110,C118,C132, C139,C142	CKDYF103Z50
	C150	CKDYF222Z50
	C109,C120,C125,C126,C129, C134 - C136,C143,C168,C169	CKDYF223Z50
	C151,C154	CKDYF473Z50
	C138	CKMYB221K50
	C131	CQSA301J50
	C127	CQSA431J50
	C155	CQSA471J50

**RESISTORS**

Mark	Symbol & Description	Part No.
★	VR101 Semi-fixed (22k Ω)	VRTB6VS223
★	VR102 Semi-fixed (4.7k Ω)	VRTB6VS472
	R145	RD1/2PM220J
	R109	RD1/4PM151J
	R155,R173	RFA1/4PS□□□J
	Other resistors	RD1/8PM□□□J

**OTHERS**

Mark	Symbol & Description	Part No.
★	X101 Crystal resonator 4P Terminal (ANTENNA)	ASS1005 AKA1010

**MAIN Assembly (AWZ1754)**

**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC553	CXA1100P
★★	IC301,IC361,IC402,IC552,IC555	M5218P
★★	IC556	M74LS05P
★★	IC420	STK4142-2GP
★★	IC351	TC4052BP
★★	IC352,IC551,IC554	TC4066BP
★★	IC401	TC9154AP
△★★	IC463	μ PC78M05H
△★★	IC462	μ PC78M10H
△★★	IC461	μ PC7812H
★★	Q753,Q759	RN1201
★★	Q580,Q581,Q584,Q588,Q585, Q590,Q592,Q594,Q595	RN1203
★★	Q586,Q587,Q589,Q591,Q593, Q596,Q602	RN2203
★★	Q453,Q463,Q573,Q751,Q752,Q758	2SA1048
★★	Q570,Q571	2SA1515
★★	Q485	2SB560
★★	Q461	2SB834
★★	Q563,Q564	2SC1740SLN
★★	Q451,Q452,Q454,Q462, Q551 - Q562,Q565 - Q568, Q574,Q582,Q583,Q756,Q757	2SC2458
★★	Q569	2SC2603
★★	Q572,Q599 - Q601	2SC2878
★★	Q754,Q755	2SC3377
★★	Q597,Q598	2SK373
△★	D452	HZS4BLL
★	D487	RD30EB
★	D488	RD5.6ESB
★	D466	RD6.2ESB
★	D413	RD8.2ESB
△★	D462 - D465,D485,D486 D490,D491	S5566
★	D391,D392,D411,D412,D451,D453, D467 - D471,D492,D551 - D556, D570,D571,D559 - D565, D751 - D754	HSS104
△★	D461	4D4B44
★	D557,D558	1SS252

**RELAY**

Mark	Symbol & Description	Part No.
★★	RY451 Relay	ASR1005

**COILS, FILTERS AND TRANSFORMER**

Mark	Symbol & Description	Part No.
	L421,L422 AF choke coil	ATH-133
	L555,L556 Trap coil	ATM-037
	L551,L552 Trap coil	ATM1001
	L557 Inductor	LTA102J
	L553,L554 Inductor	LTA392J
	F551,F552 Dolby filter	ATF-210
	T551 BIAS oscillator coil	ATX-043

**CAPACITORS**

Mark	Symbol & Description	Part No.
	C631 (2000p)	ACE1020
△	C464 (0.01 μ F / AC150V)	ACG1005
	C461,C462 (3300 μ F / 42V)	ACH-249
	C625,C626	CCCSL101K500
	C555,C556	CCMCH100D50
	C305	CCDSL101J50
	C425,C426	CCMCH470J50
	C301,C302,C306,C361,C362, C365,C366,C603,C604	CCMSL101J50
	C443,C485	CEANP100M50
	C447	CEANP220M50
	C551	CCDSL271J50
	C441	CEANP470M50
	C587,C588	CEASR22M50
	C637	CEASR47M50
	C577,C578	CEASR68M50
	C363,C364,C367,C368,C423, C424,C559,C560,C573,C574, C585,C592,C601,C602	CEAS010M50
	C303,C304	CEAS0R1M50
	C445,C446,C466,C490, C581 - C584,C589 - C591,C755	CEAS100M50
	C575,C576,C753	CEAS101M10
	C427 - 432	CEAS101M25
	C621,C622	CEAS2R2M50
	C486	CEAS220M100
	C561,C562,C751,C752	CEAS220M16
	C451,C452	CEAS221M10
	C611,C612,C642,C645	CEAS330M16
	C463	CEAS332M25
	C401 - C406,C567,C568,C579, C580,C628	CEAS4R7M50
	C321,C322,C351,C381,C382,C411, C412,C467,C468,C471,C565,C566, C586,C609,C610,C627	CEAS470M10
	C311,C312	CEAS6R8M50
	C469,C470,C638	CEAS470M16
	C487,C488	CEAS470M50
	C619,C620,C630	CFTXA103J50
	C633,C634	CQMA123J50
	C617,C618,C635	CFTXA153J50
	C615,C616	CFTXA473J50
	C571,C572	CQMA223J50
	C569,C570	CQMA273J50
	C607,C608	CFTXA563J50

C465	CKCYB103K50
C309,C310	CKCYB152K50
C307,C308	CKCYB562K50
C433,C436	CKCYX104M25
C643	CKCYX473M25

Mark	Symbol & Description	Part No.
	C640,C641	CKDYF473Z50
	C636	CKMYB221K50
	C434,C435	CKDYX104M25
	C552	CKMYB271K50
	C421,C422,C553,C554	CKMYB331K50
	C623,C624	CKMYB681K50
	C557,C558	CKMYB821K50
	C632	CQMA123K250
	C605,C606	CQMA222K50
	C644	CQMA272K50
	C563,C564	CQMA332K50
	C613,C614	CQMA472K50
	C629	CQMA682K50

**RESISTORS**

Mark	Symbol & Description	Part No.
★	VR551,VR552,VR752 Semi-fixed (20k Ω)	VRTM6H203
★	VR751,VR753 Semi-fixed (50k Ω)	VRTM6H503
★	VR553,VR554 Semi-fixed (20k Ω)	VRTM6V203
★	VR555,VR556 Semi-fixed (200k Ω)	VRTM6V204
△	R453,R454	RS1LMF102J
	R464,R465,R691	RD1/2PM □□□J
△	R446	RD1/4PMFL101J
△	R462	RD1/4PMFL151J
△	R443,R444	RD1/4PMFL222J
	R587,R588	RD1/4PMFL303J
△	R445	RD1/4PMFL471J
△	R439,R440	RD1/4PMF100J
	R441	RD1/4PMF101J
	R467,R486	RD1/4PMF472J
	R395 - R398,R433 - R438,R442, R463,R485	RD1/4PM □□□J
	Other resistors	RD1/8PM □□□J

**OTHERS**

Mark	Symbol & Description	Part No.
	6P Pin jack	AKB1024
	2P Pin jack	AKB1039
	4P Terminal (SPEAKERS)	AKE-109
	DC jack	AKN-203
	Mini jack	AKN-207

**μ - CON Assembly (AWZ1757)**

**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	IC901,IC902	BA3812L
★★	IC904	M5218P
★★	IC801	PDG018-A
★★	IC905	TC4066BP
★★	Q803 - Q807,Q812, Q814 - Q818,Q820,Q823 - Q829	RN1201

Mark	Symbol & Description	Part No.
★★	Q808,Q809,Q811,Q830 - Q836	RN2203
★★	Q813,Q819,Q821,Q837 - Q840, Q842 - Q844	2SA1048
★★	Q801,Q802,Q810,Q822,Q845	2SC2458
★	D816 - D820	AEL1014
★	D802 - D806	AEL1040
★	D814	AEL1065
★	D801,D807 - D813,D815, D821 - D838,D840 - D842, D844 - D861	HSS104
	D862 - D864	1SS252
	D866	RD6.2EB

**SWITCHES**

Mark	Symbol & Description	Part No.
★★	S801,S803 - S806,S808 - S828 Tact switch (VIDEO,TUNING (+,-),PHONO, TAPE, MODE, BAND, TUNER, CLOCK/FREQ, MEMORY, TIMER, SURROUND & STEREO) WIDE, 1/13 - 12/24	ASG-711

**COIL**

Mark	Symbol & Description	Part No.
	L801 Axial inductor	LAU220K

**CAPACITORS**

Mark	Symbol & Description	Part No.
	C810 (0.47F/5.5V)	ACH1037
	C807,C923,C924	CCMSL101J50
	C939,C940	CCMSL121J50
	C915,C916	CEASR15M50
	C919,C920	CEASR68M50
	C819	CEAS2R2M50
	C815,C929 - C932	CEAS470M16
	C812,C813	CEJA010M50
	C901,C902,C927,C928	CEJA100M16
	C809,C817	CEJA101M10
	C801	CFTXA104J50
	C905,C906	CFTXA153J50
	C917,C918	CFTXA183J50
	C921,C922	CFTXA393J50
	C911,C912	CFTXA683J50
	C811	CKDYB103K50
	C903,C904	CKDYB182K50
	C913,C914	CKDYB392K50
	C909,C910	CKDYB682K50
	C802 - C806,C814,C816	CKDYF223Z50

C808,C818	CKDYF473Z50
C925,C926	CKMYB331K50
C907,C908	CKMYB391K50
C935 - C938	CKMYB471K50

**RESISTORS**

Mark	Symbol & Description	Part No.
★	VR901 - VR910 Slide variable resistor (30k Ω) (GRAPHIC EQUALIZER)	ACU1021
	R804 - R808, R823, R824	RD1/2PM□□□J
	R820	RD1/4PM471J
	Other resistors	RD1/8PM□□□J

**OTHERS**

Mark	Symbol & Description	Part No.
★	V801 Fluorescent indicator tube	AAV1045
	X801 Ceramic resonator	AAS1022
	Remote control sensor unit	AXX1005

**HEADPHONE Assembly**

**SWITCH**

Mark	Symbol & Description	Part No.
★★	S951 Tact switch (POWER)	ASG1022 (ASG-712)

**CAPACITORS**

Mark	Symbol & Description	Part No.
	C961, C962	CKDYF473Z50
	C951, C952	CKMYB102K50

**RESISTORS**

Mark	Symbol & Description	Part No.
	R951, R952	RD1/2PMF331J

**OTHERS**

Mark	Symbol & Description	Part No.
	Mini jack	AKN1004

**POWER SUPPLY Assembly**

**SWITCH AND RELAY**

Mark	Symbol & Description	Part No.
★★	S991 Push switch (MAIN POWER)	ASG1006
△★★	RY991 Relay	ASR1012

**CAPACITOR**

Mark	Symbol & Description	Part No.
△C992	(0.01/AC250V)	ACG1002

**OTHERS**

Mark	Symbol & Description	Part No.
	Connect terminal	AKF1005

**SWITCH Assembly**

**SEMICONDUCTORS**

Mark	Symbol & Description	Part No.
★★	Q501 - Q503, Q505, Q506	RN1201
★★	Q504	RN2201
★	D503 - D505, D508	AEL1064
★	D501, D502	AEL1065
★	D509, D510	HSS104

**SWITCHES**

Mark	Symbol & Description	Part No.
★★	S501, S502, S504 - S506 Tact switch (NORMAL COPY, DOLBY NR, CD, SYNCHRO REC, HIGH SPEED, COPY, PAUSE)	ASG-711

**RESISTORS**

Mark	Symbol & Description	Part No.
	R501 - R506, R510	RD1/8PM□□□J

**VR SW Assembly**

**SWITCH**

Mark	Symbol & Description	Part No.
★★	S981 Momentary switch (VOLUME)	ASD1001

**CONNECT Assembly**

There is not supplied parts in this assembly.

## 6. ADJUSTMENTS

### 6.1 TAPE DECK SECTION

#### 6.1.1 Mechanical adjustment

● Adjustment point are as shown in Fig.6-8.

1. Tape Speed Adjustment							
No.	Mode	Test tape	Adjustment point		Measuring point	Adjustment procedure	Remarks
1	PLAY	Play the 3kHz section of the STD - 301.	Deck I	— (Double speed)	TP1 (Lch) TP3 (Rch)	Put DECK I into PLAY mode, and make a short circuit between TP4 and TP5. Record the measured value at the measuring points.	Release the short circuit after adjustment.
2				VR751 (Normal speed)			
3			Deck II	VR752 (Double speed)		Put DECK II into PLAY mode, and make a short circuit between TP4 and TP5. Adjust so that the frequency becomes equal to the value obtained in step No.1.	Release the short circuit after adjustment
4				VR753 (Normal speed)			

#### 6.1.2 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  $0\text{dBv} = 1\text{Vrms}$ .
5. Connect a  $50\text{k}\Omega$  (or between  $47$  to  $52\text{k}\Omega$ ) load resistance to the OUTPUT terminals.
6. Unless otherwise specified, the switches listed below are left in the positions indicated.

DOLBY NR : OFF

##### Test Tapes

- STD - 331B : Playback adjustments  
(See Fig.6 - 1)
- STD - 608A : NORMAL blank tape
- STD - 620 :  $\text{CrO}_2$  blank tape
- STD - 610 : METAL blank tape

##### List of Adjustments

###### Playback sections

1. Head azimuth adjustment.
2. Playback frequency response check.
3. Playback level adjustment.

###### Recording sections

1. Bias oscillate frequency adjustment.
2. Recording level adjustment.
3. Recording bias adjustment.
4. Recording and playback frequency response check.
5. Copy mode playback frequency response check.

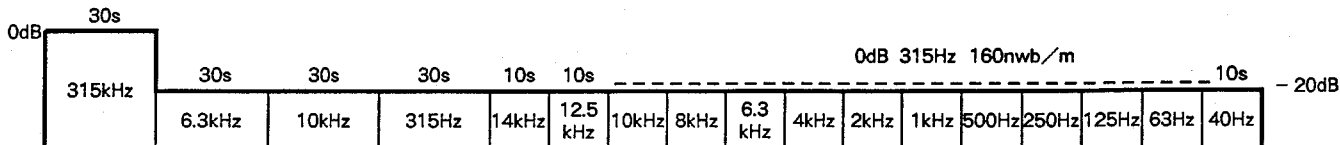


Fig.6 - 1 Contents of the test tape STD - 331B

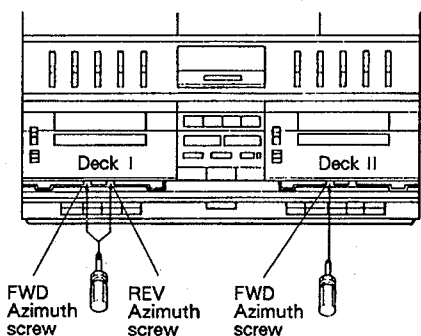


Fig.6 - 2 Head azimuth adjustment

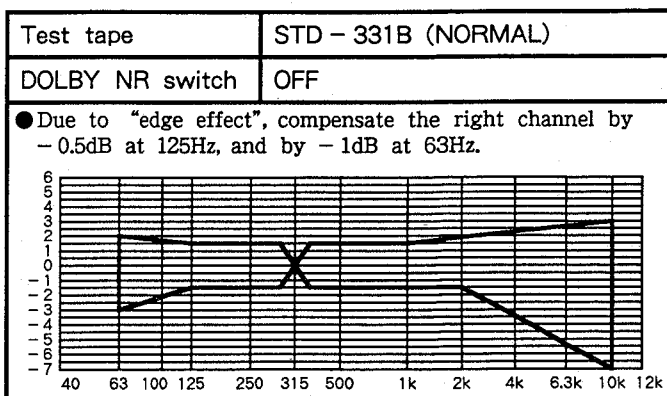


Fig.6 - 3 Allowable playback frequency response zone

## Playback Section

### 1. Head Azimuth Adjustment

- Turn VR551 and VR552 (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.6 - 2)	TP1 (Lch) TP3 (Rch)	Maximum playback signal level.	
2	STOP	Lock the screw with screw lock after completing adjustment.				

### 2. Playback Frequency Response Check

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	PLAY	STD-331B	-	TP1 (Lch) TP3 (Rch)	The allowable zone shown in Fig.6 - 3 is to be satisfied.	

### 3. 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 II VR551 (Lch) VR552 (Rch)	TP1 (Lch) TP3 (Rch)	- 23.0dBv ± 2.5dB	

## Recording Section

1. Bias Oscillate Frequency Adjustment						
No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	REC	Load the STD-610 test tape with no input signal.	Deck II T551	Jumper wire (See Fig.6-8)	105kHz $\pm$ 1kHz	
2. Recording Level Adjustment						
No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	REC PAUSE	Apply a 315Hz / -20dBv signal to the CD input terminals.	-	-	-	
2		Set the DOLBY NR switch to the ON position.				
3	REC/ PLAY	Record the above signal onto the STD-608A test tape, and playback.	Deck II VR553 (Lch) VR554 (Rch)	TP1 (Lch) TP3 (Rch)	Compensate the playback signal level so that it becomes -23.0dBv $\pm$ 2.5dB by repeating recording and playback.	
3. 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	REC	Record a 315Hz signal and a 10kHz signal from the CD input terminals, and play them back.	Deck II VR555 (Lch) VR556 (Rch)	TP1 (Lch) TP3 (Rch)	Compensate the playback signal level of 10kHz so that it becomes -23.0dBv $\pm$ 2.5dB against the signal level of 315Hz by repeating recording and playback.	
4. Recording and Playback Frequency Response Check						
No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	REC/ PLAY	STD-608A (NORM) NR : OFF/ON	Check	TP1 (Lch) TP3 (Rch)	The allowable zone shown in Fig6-4 is to be satisfied.	
2	REC/ PLAY	STD-620 (CrO <sub>2</sub> ) NR : OFF/ON	Check	TP1 (Lch) TP3 (Rch)	The allowable zone shown in Fig6-5 is to be satisfied.	



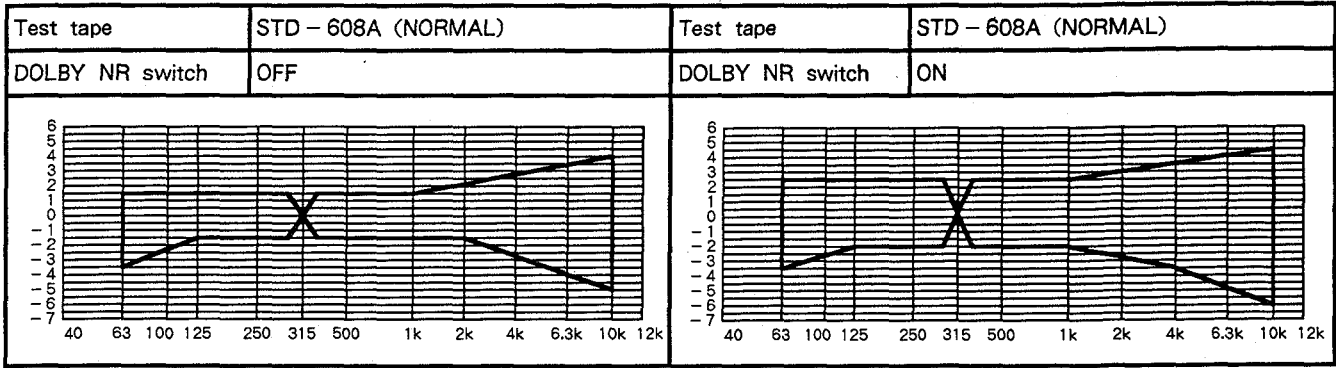


Fig.6 - 4 Recording & playback frequency response tolerance zone (NORM)

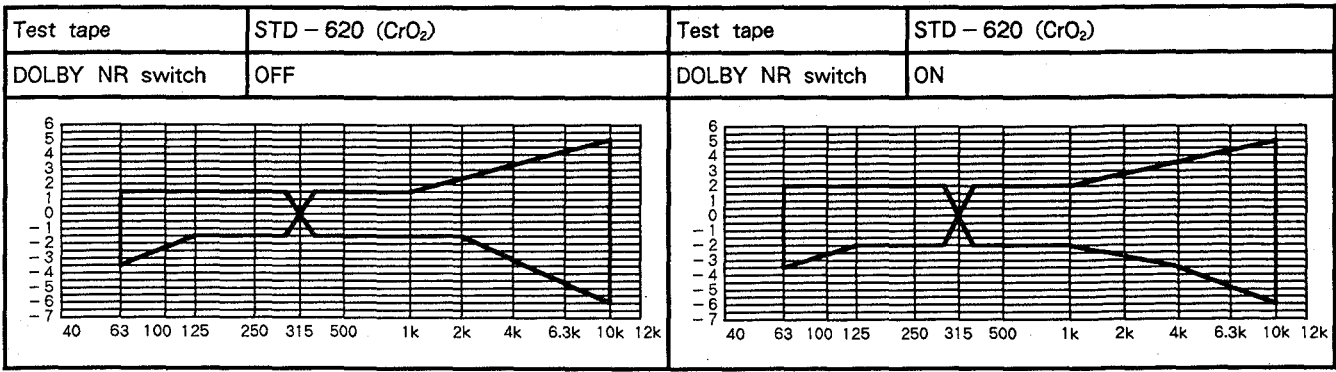


Fig.6 - 5 Recording & playback frequency response tolerance zone (CrO<sub>2</sub>)

## 6.2 TUNER SECTION

### 6.2.1 AM (MW) Tuner Adjustment

- Make the wire connections as shown in Fig. 6-6.
- Set the function to MW.

Step No.	Adjustment	AM SG (400Hz,30 % modulation)		RX - Z71L Reception Frequency Display	Adjustment Location	Adjustment specification
		Frequency (kHz)	Level (dB $\mu$ V/m)			
1	OSC voltage adjustment	—	—	531kHz	L103	Adjust TP101 to $1.25V \pm 0.1V$ .
2		—	—	1602kHz	TC101	Adjust TP101 to $10V \pm 0.5V$ .
3	MW sensitivity adjustment	603	74	603kHz	T101	Adjust the output terminal (TP111 : Lch, TP109 : Rch) voltage to the maximum.
4		1395		1395kHz	TC102	
5		603		603kHz	F102	

### 6.2.2 AM (LW) Tuner Adjustment

- Make the wire connections as shown in Fig. 6-6.
- Set the function to LW.

Step No.	Adjustment	AM SG (400Hz,30 % modulation)		RX - Z71L Reception Frequency Display	Adjustment Location	Adjustment specification
		Frequency (kHz)	Level (dB $\mu$ V/m)			
1	OSC voltage adjustment	—	—	281kHz	L104	Adjust TP101 to 4.95V.
2	LW sensitivity adjustment	164	74	164kHz	T102	Adjust the output terminal (TP111 : Lch, TP109 : Rch) voltage to the maximum.
3		254		254kHz	TC103	

**6.2.3 FM Tuner Adjustment**

- Make the wire connections as shown in Fig. 6-7.
- Set the function to FM.

Step No.	Adjustment	FM SG (1kHz ± 75kHz dev.)		RX - Z71L Reception Frequency Display	Adjustment Location	Adjustment specification
		Frequency (MHz)	Level (dB μ)			
1	Detection coil T-meter adjustment	98.0	60	98.0MHz	L109	Adjust so that the DC voltage between the TP104 and TP105 terminals becomes 0V.
2	FM sensitivity adjustment	98.0	60	98.0MHz	L106 T103	Adjust the output terminal (TP111 : Lch, TP109 : Rch) voltage to the maximum.
3	Stereo distortion adjustment	98.0	60 (* 1)	98.0MHz	T103 (within 90°)	Adjust the output terminal (TP111 : Lch, TP109 : Rch) distortion to the minimum.
4	TUNE indicator level adjustment	98.0	20 (± 2)	98.0MHz	VR101	Adjust so that the TUNE indicator lights up.
5	FM VCO adjustment	No modulation	60	98.0MHz	VR102	Adjust the TP106 frequency to 76kHz ± 200Hz

(\* 1) Stereo Modulation : Main 1kHz L + R ± 68.25Hz dev.  
Pilot 19kHz ± 6.75kHz dev.

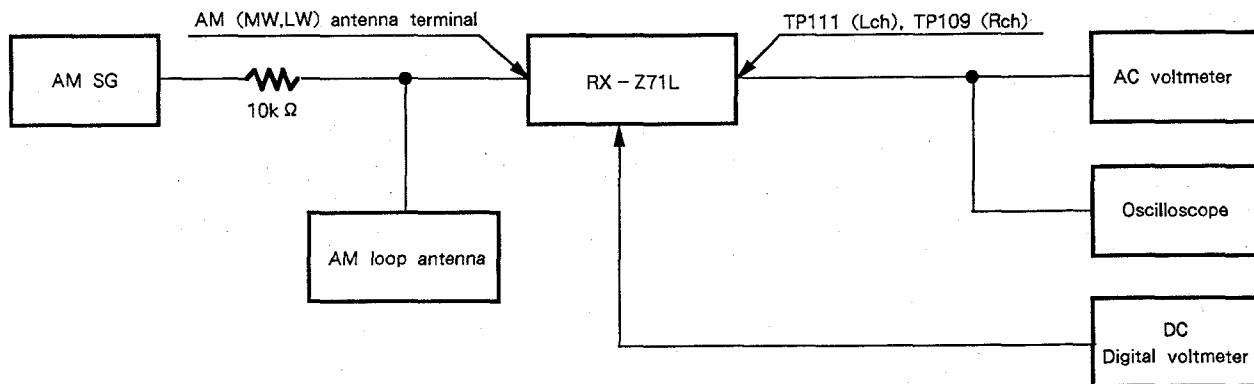


Fig.6 - 6 AM (MW,LW) adjustment wiring diagram

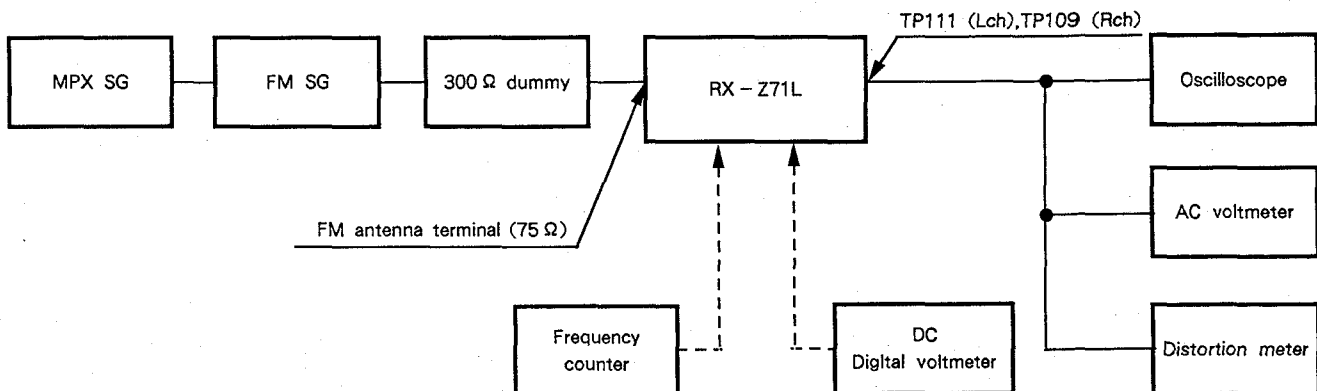


Fig.6 - 7 FM adjustment wiring diagram

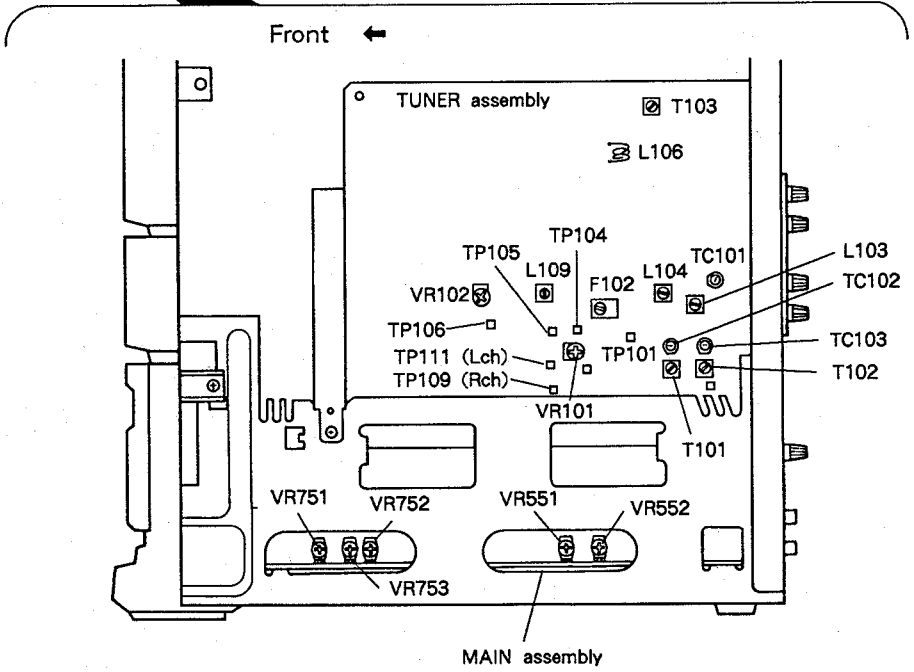
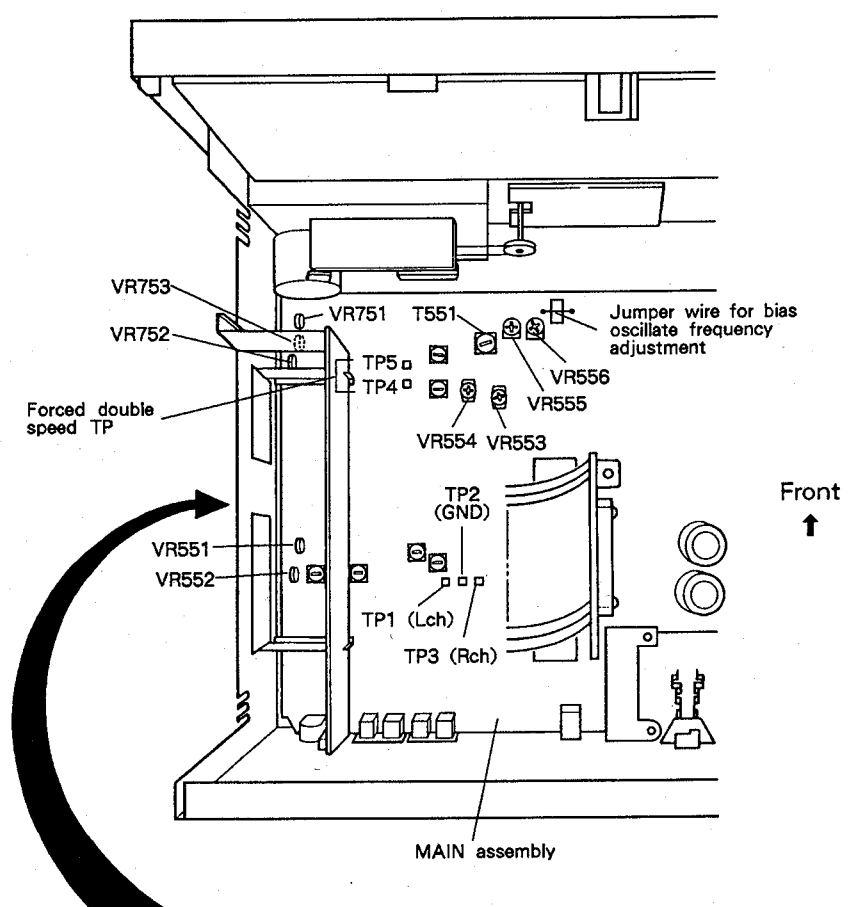


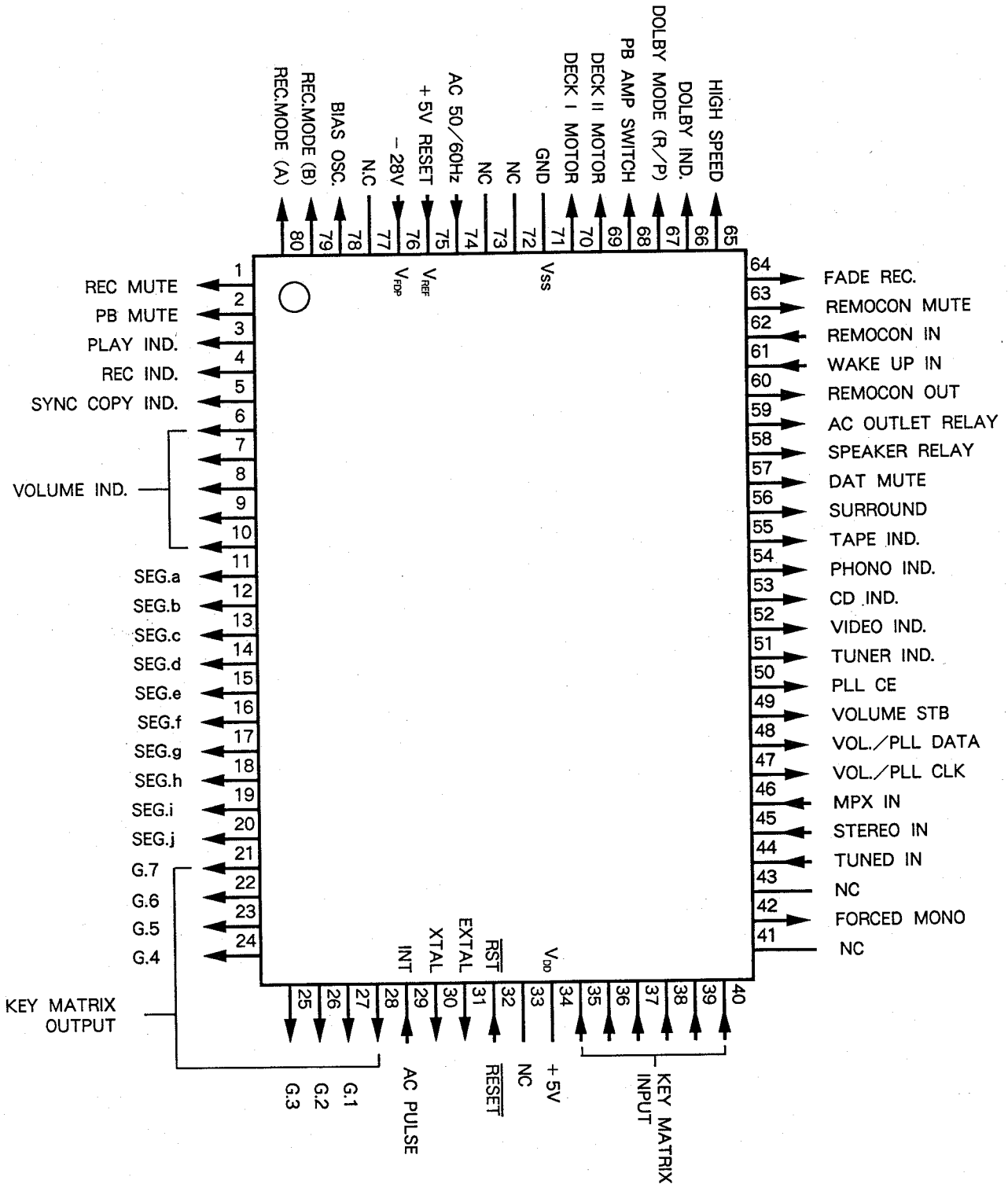
Fig.6-8 Adjustment points

# 7. IC INFORMATION

## ■ PDG018 - A

Microcomputer

### ● Pin connections (Top view)



● Pin functions

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	PG0		REC MUTE output	41	PB2	--	Not use.
2	PG1		PLAYBACK MUTE output	42	PB3	O	Forced mono output
3	PG2		PLAY indicator output	43	NC	--	NC
4	PG3		REC indicator output	44	PX0		TUNER TUNED input
5	S8		SYNC COPY indicator output	45	PX1	I	TUNER STEREO reception input
6	S9			46	PX2		TUNER MPX reception input
7	S10			47	PA0		VOLUME/PLL CLK output
8	S11		VOLUME indicator output	48	PA1		VOLUME/PLL DATA output
9	S12			49	PA2		VOLUME STB output
10	S13			50	PA3		PLL CE output
11	S14		FL SEGMENT output (a)	51	PFO		TUNER indicator output
12	S15		FL SEGMENT output (b)	52	PF1		VIDEO indicator output
13	S16		FL SEGMENT output (c)	53	PF2		CD indicator output
14	S17		FL SEGMENT output (d)	54	PF3		PHONO indicator output
15	S18		FL SEGMENT output (e)	55	PE0		TAPE indicator output
16	S19		FL SEGMENT output (f)	56	PE1		SURROUND indicator output
17	S20		FL SEGMENT output (g)	57	PE2		MUTE output for DAT
18	S21		FL SEGMENT output (h)	58	PE3		SPEAKER relay output
19	S22		FL SEGMENT output (i)	59	PY0		AC OUTLET relay output
20	S23		FL SEGMENT output (j)	60	PY1		Remote control signal output for CD
21	T7		FL grid output (7G) ; KEY MATRIX output	61	PY2	I	WAKE UP input
22	T6		FL grid output (6G) ; KEY MATRIX output	62	RMC		Remote control input
23	T5		FL grid output (5G) ; KEY MATRIX output	63	PD0		Remote control mute output
24	T4		FL grid output (4G) ; KEY MATRIX output	64	PD1		FADE REC output
25	T3		FL grid output (3G) ; KEY MATRIX output	65	PD2		NORMAL/HIGH SPEED switching output
26	T2		FL grid output (2G) ; KEY MATRIX output	66	PD3		DOLBY indicator output
27	T1		FL grid output (1G) ; KEY MATRIX output	67	PC0		REC/PLAY DOLBY MODE switching output
28	T0		KEY MATRIX output	68	PC1		DECK I/DECK II PLAYBACK AMP switching output
29	INT	I	AC 50/60Hz input	69	PC2		DECK II MOTOR output
30	XTAL		Connect the 4.19MHz ceramic resonator between 30 pin and 31 pin.	70	PC3		DECK I MOTOR output
31	EXTAL	O		71	Vss	GND	GND
32	RST	I	RESET input	72	TX	O	NC
33	NC	--	NC	73	NC	--	NC
34	V <sub>cc</sub>	5V	+5V power supply voltage	74	TEX		AC 50/60Hz input
35	P10		KEY MATRIX input	75	V <sub>REF</sub>	I	+5V reference voltage input for reset circuit
36	P11			76	V <sub>FDP</sub>		-28V load power supply input for FDP
37	P12			77	PH0		NC for FDP
38	P13	I		78	PH1		BIAS OSC output
39	PB0			79	PH2		REC MODE (B) output
40	PB1			80	PH3		REC MODE (A) output

## 8. SPECIFICATIONS

### Amplifier Section

Continuous Power Output	
1kHz (DIN)	40W + 40W (T.H.D. 1% 8Ω)
1kHz (DIN music power)	50W + 50W (T.H.D. 1% 8Ω)
Graphic equalizer frequency band	100Hz, 330Hz, 1kHz, 3.3kHz, 10kHz, ±7dB
Hum and Noise (DIN continuous Power/50mW)	
PHONO	68dB / 60dB
Total Harmonic Distortion (40Hz to 20,000Hz, 15W, 8Ω)	No more than 0.2%
Input terminal (sensitivity / impedance)	
PHONO	2.5mV / 20kΩ
AUX	150mV / 20kΩ
CD	240mV / 20kΩ
Frequency characteristics	
PHONO	30Hz to 20kHz ±0.5dB
AUX	20Hz to 60kHz ±3dB

### Tape Deck Section

Systems	4 track, 2-channel stereo
Heads	Recording/playback head × 1 Playback head × 1 Erasing head × 1
Motors	DC servo 2 speed motor × 2
Wow and Flutter	No more than 0.2% (WRMS)
Fast Winding Time	Approximately 105 seconds (C-60 tape)
Frequency Response	
-20 dB recording:	
Normal tape	35Hz to 14,000Hz ±6dB
CrO <sub>2</sub>	35Hz to 15,000Hz ±6dB
Signal-to-noise Ratio	
Dolby NR OFF	56 dB
Noise Reduction Effect	
Dolby B type NR ON	More than 10dB (at 5kHz)

### Furnished Parts

Operating Instructions	1
Remote control unit	1
Dry cell batteries	2
FM T-type antenna	1
AM Loop Antenna	1

### Miscellaneous

Power requirements	a.c. 220 Volts~, 50/60Hz
Power consumption	250 W
Dimensions	360(W) × 312(H) × 330(D)mm
Weight (without package)	8.0kg

### FM Tuner Section

Frequency range	87.5MHz to 108MHz
Usable Sensitivity	15.3.dBf, IHF(1.2μV/75Ω)
50 dB Quieting Sensitivity	Mono: 18dBf (2.2μV/75Ω) Stereo: 38.3dBf (22.6μV/75Ω)
Sensitivity (DIN)	Mono 0.9μV/75Ω Stereo: 31.5 μV/75Ω
Signal-to-Noise Ratio (IHF, 85 dBf Input)	
	Mono: 77dB Stereo: 73dB
Signal-to-Noise Ratio (DIN)	Mono: 62dB Stereo: 60dB
Distortion	Stereo: 0.5% (1kHz)
Alternate Channel Selectivity	60dB (400kHz)
Stereo Separation	40dB (1kHz)
Frequency response	±2.5dB (30Hz to 15kHz)
Image Interference Ratio	38dB
IF Interference Ratio	110dB
Antenna Input	75Ω unbalanced
Output level (FM 100% MOD)	650mV

### MW (AM) Tuner Section

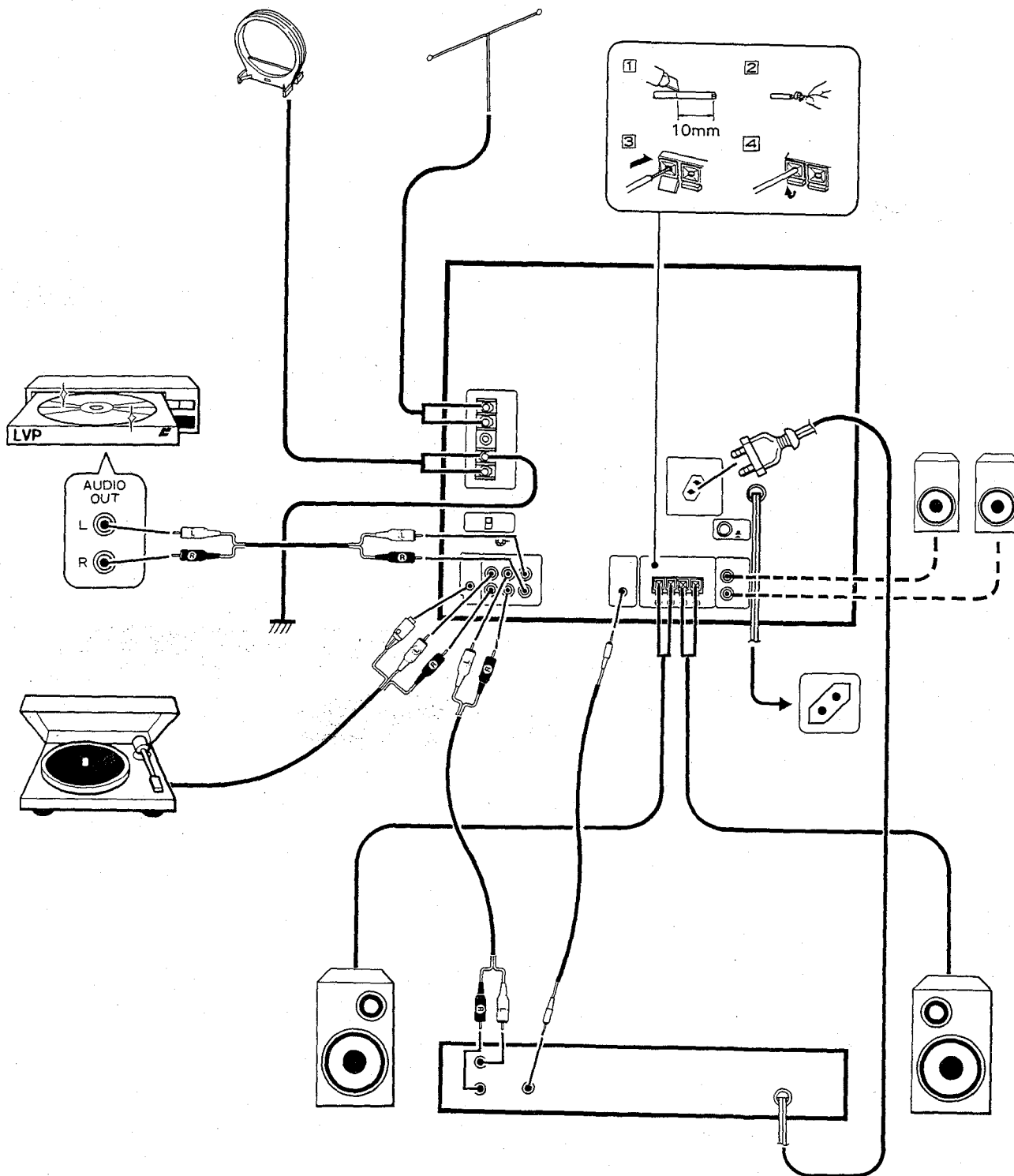
Frequency range	531kHz to 1,602kHz
Sensitivity (IHF, Loop antenna)	350μV/m
Selectivity	20dB
Signal-to-Noise Ratio	45dB
Image Interference Ratio	40dB
IF Interference Ratio	50dB
Antenna	Loop Antenna
Output Level (AM 30% MOD)	150mV

### LW Tuner Section

#### (For LW-equipped models only)

Frequency range	153kHz to 281kHz
Sensitivity (IHF, Loop antenna)	1500μV/m
Selectivity	20dB
Signal-to-Noise Ratio	45dB
Image Interference Ratio	30dB
IF Interference Ratio	50dB
Antenna	Loop Antenna
Output Level (AM 30% MOD)	150mV

# 9. CONNECTIONS





Proceed as follows with the set-up and connections:

1. Connect the FM antenna and the AM antenna to the cassette tape deck receiver's ANTENNA terminals.  
(Use an antenna ground as necessary.)
2. Connect the turntable's cords to the cassette tape deck receiver's PHONO jacks. If any other stereo component is to be used, connect in the same way to the cassette tape deck receiver's input jacks.
3. Connect the speaker cords to the SPEAKERS terminals.
4. Finally, connect the power cord to the AC wall socket.

**Connecting the input/output cords**

- Connect the plugs properly. Faulty connections can cause noise and also breakdowns and failures.
- The white terminal is for the left channel and the red terminal is for the right channel.

**Antenna ground**

Although grounding is not necessary for reception it is recommended for protection against damage from lightning if an outdoor FM antenna is used. Grounding is recommended as well to help reduce noise and hum.

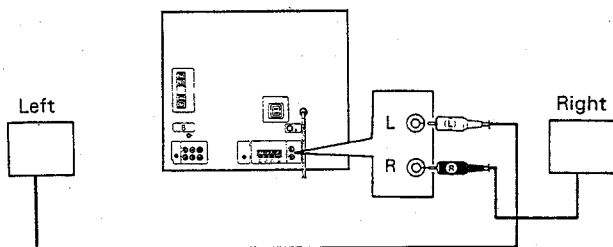
**NOTE:**

*Never make the ground connection to a gas pipe as sparks could cause the gas to ignite.*

**SPEAKER CONNECTIONS**

- ① Remove the insulation from the cord tip to expose the core wire.
  - ② Twist the core wire.
  - ③ Lower the knob under the terminal and insert the cord.
  - ④ Push up the knob.
- Speaker systems used should have an impedance of between 8ohms and 16ohms.
  - Be sure that connections are secure. Check to make sure that wires do not protrude from their terminals.
  - Do not allow the speaker cords to become shorted.  
Damage may result to your equipment.

**Connecting a surround speaker**



**AC OUTLET SWITCHED 100W MAX**

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

**NOTE:**

*Do not connect appliances with higher power consumption such as heaters, irons, or television sets to the AC OUTLET, in order to avoid overheating or fire risk.  
This can cause this equipment to malfunction.*

**To control a unit other than this receiver using the remote control unit**

- ① In the case of PIONEER equipment marked **SR** which is provided with a remote sensor, operate the equipment by aiming the remote control unit at the remote sensor on the equipment.
- ② For equipment with the **SR** mark, but without a remote sensor, operation of the equipment by facing the remote control unit towards the remote sensor of the cassette deck receiver is possible with connection from the CONTROL OUT jack to the CONTROL IN jack. Use a commercially available cable with mini-plugs for the connection.

**Ground terminal (GND)**

Connect this to the ground terminal on the turntable (except for PL-Z81 and PL-Z91).

**MAIN POWER switch**

**[ON]**

While this unit is in a standby status and the power cord is connected to the wall socket, the circuit of the unit will operated continuously. When not use the unit for a long period, either switch the unit OFF, or remove the power cord from the power socket.

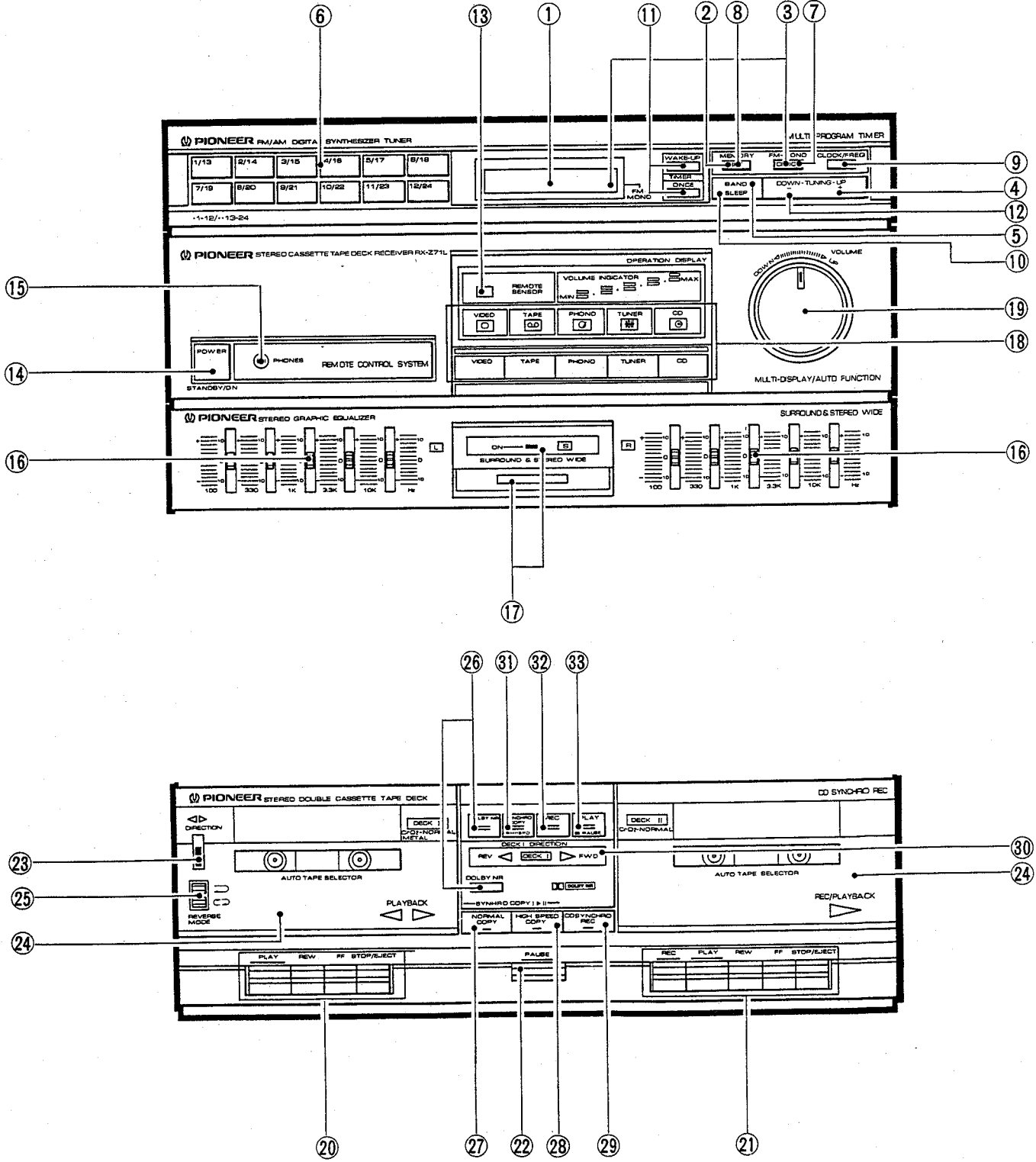
**[OFF]**

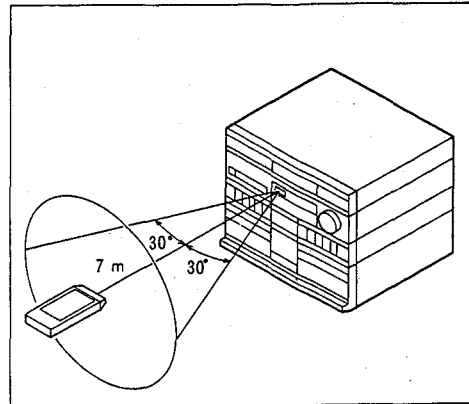
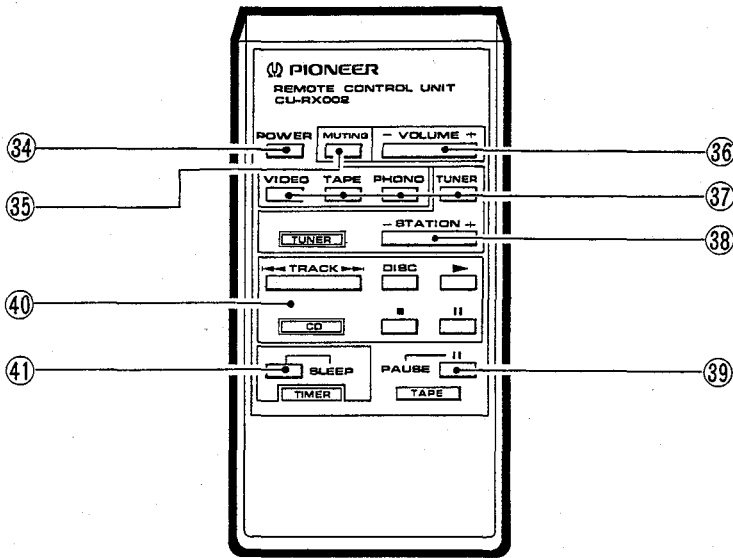
When the switch is OFF, the power to the unit will be cut off.

**BEAT CUT switch**

Beat may occur and be included in recordings when recording AM broadcast or copying while receiving AM broadcast. In such cases, set this switch to the position where beat is less.

# 10. PANEL FACILITIES





**CASSETTE TAPE DECK RECEIVER  
[FM/AM TUNER UNIT]**

**① FREQUENCY / TIME display**

Permits reading the received frequency at a glance from the displayed figure. The FM band is indicated by MHz, and the AM (MW or LW) band by kHz. This display indicates the time.

**② 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 the STATION CALL switch while the frequency indicator is flashing.

**③ FM MONO switch/indicator**

Normally this is set to the off position (the FM MONO indicator goes off). When noise spoils the reception of an FM program, press the switch to the on position (the FM MONO indicator will now light).

The program of an FM stereo broadcast will be heard in mono. The setting of the FM MONO switch (on or off) is memorized along with the station's frequency in the STATION CALL switches.

When using the present tuning feature, reception will be in the mode selected when the station was memorized.

This switch will not function for AM (MW or LW) reception.

**④ TUNING switch**

This is used to locate the stations.

Push either side of this switch; the left side "-" to go to a lower, and the right side "+" to go to a higher frequency.

**⑤ BAND selector switch**

Each time this switch is pressed, FM, MW, or LW reception is selected alternately.

FM and MHz light: FM reception

AM and kHz light: MW or LW reception

**⑥ STATION CALL switches**

These are used to recall preset broadcasting stations and to preset the station.

**WHEN IN TIMER MODE :**

**⑦ Time adjusting switch (CLOCK)**

Adjusts the present time setting.

**⑧ Time setting switch (SET)**

Sets the present time and the timer-indicated time for turning on/off the system.

**⑨ Display switchover switch (CLOCK/FREQ)**

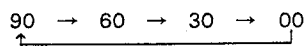
Changes over between the tuner and clock functions.

Tuner function: Displays the frequency (or channel) at which a broadcast is received.

Clock function: Displays the present time.

**⑩ Sleep switch (SLEEP)**

Each push of this switch causes the time to be set in the following order:



These indications cause the system to be automatically turned off after 90, 60 and 30 minutes respectively.

**⑪ Timer function setting switches**

Sets timer-aided playback and recording, etc.  
**WAKE UP**.....Sets timer playback.  
**ONCE**.....Conducts timer playback only once at the preset time.

**⑫ - and + switch**

Decreases (-) or increases (+) the indicated value when setting the present time or the timer, and sets the function and volume.

**[AMPLIFIER SECTION]**

**⑬ REMOTE SENSOR**

**⑭ POWER STANDBY/ON switch**

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

**⑮ Headphone jack (PHONES)**

For miniature stereo phone plug.

**⑯ Graphic equalizer controls (GRAPHIC EQUALIZER)**

Sound quality can be adjusted using 5 controls on the right and 5 other controls on the left.

**⑰ SURROUND & STEREO WIDE switch/indicator**

When surround speaker systems are connected to the SURROUND SPEAKERS jacks at the rear:  
 By turning this switch ON (causing the SURROUND indicator to come on), you can enjoy surround reproduction.  
 When surround speaker systems are not connected:  
 By turning this switch ON, you can enjoy STEREO WIDE reproduction with greater left-hand spread.

**NOTE:**

In the case of a monaural source, a SURROUND/STEREO WIDE effect cannot be obtained.

**⑱ FUNCTION switches/indicators**

The indicators light for the specified functions.

**[VIDEO]**

Press when listening to a stereo component connected to the VIDEO jacks.

**[TAPE]**

Press when listening to a cassette tape.

**[TUNER]**

Press when listening to a radio broadcast.

**[PHONO]**

Press when playing records on a turntable connected to the PHONO jacks.

**[CD]**

Press when listening to a CD player connected to the CD jacks.

**⑲ VOLUME control**

UP: Increases volume.  
 DOWN: Decreases volume.

**[DECK SECTION]**

**⑳ DECK I operation switches**

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

**㉑ DECK II operation switches**

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

**㉒ PAUSE switch ( )**

Temporarily stops tape travel. Cancels pause mode when pressed again.

**㉓ DIRECTION switch (Deck II)**

Changes tape travel direction.  
 Can operate during playback or pause.

**㉔ Cassette door**

**㉕ REVERSE MODE switch**

Switch position	Deck I
	(Playback)
	Double-sided playback
	Continuous playback

- Reverse playback automatically stops after 6 forwards and returns. Changing the tape travel direction using the DIRECTION switch also causes reverse playback. (Two such changes constitute one forward and return.) The autoreverse mode automatically causes the system to stop after 6 forwards and returns at tape's end. At this time, the PLAY switch remains on while the system is at a complete stop.

**㉖ DOLBY NR switch/indicator**

- Press to activate the noise reduction system. Use to play back tapes recorded using Dolby B NR noise reduction.
- Tapes recorded using Dolby B NR noise reduction 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 NORMAL COPY switch**

Copies a tape at normal speed.

**⑳ HIGH SPEED COPY switch**

Copies a tape at double speed.

**㉑ CD SYNCHRO REC switch**

Records a CD on a tape.

**㉒ DECK I DIRECTION indicator**

Shows the direction of tape travel in Deck I.

**㉓ SYNCHRO COPY indicator**

Lights with during normal copying.  
Flashes with during high-speed copying.

**㉔ Recording indicator (REC)**

Lights during recording. Flashes during recording pause.

**㉕ PLAY indicator**

Lights during tape playback.  
Flashes on and off during a playback pause.

**REMOTE CONTROL UNIT**

**Range of remote control**

When the remote control unit is pointed at the REMOTE SENSOR window on the deck receiver and any of its keys is pressed, the cassette deck receiver and other components can be operated by remote control.

Distance: Within a range of about 7 meters from the REMOTE SENSOR window

Angle: Within approx. 30 degrees from the center of the REMOTE SENSOR window.

Remote control will not be possible if there is an obstacle between the remote control unit and the REMOTE SENSOR window.

**㉖ POWER key**

**㉗ MUTING key**

**㉘ VOLUME (UP, DOWN) key**

**㉙ FUNCTION keys**

- VIDEO ..... Changes the function to VIDEO/AUX.
- TAPE ..... Changes the function to TAPE.
- PHONO ..... Changes the function to PHONO.
- TUNER ..... Changes the function to TUNER.

**㉚ STATION key**

- Preset before operation.
- + ..... Changes from the present station number to larger station numbers.
- ..... Changes from the present station number to smaller station numbers.

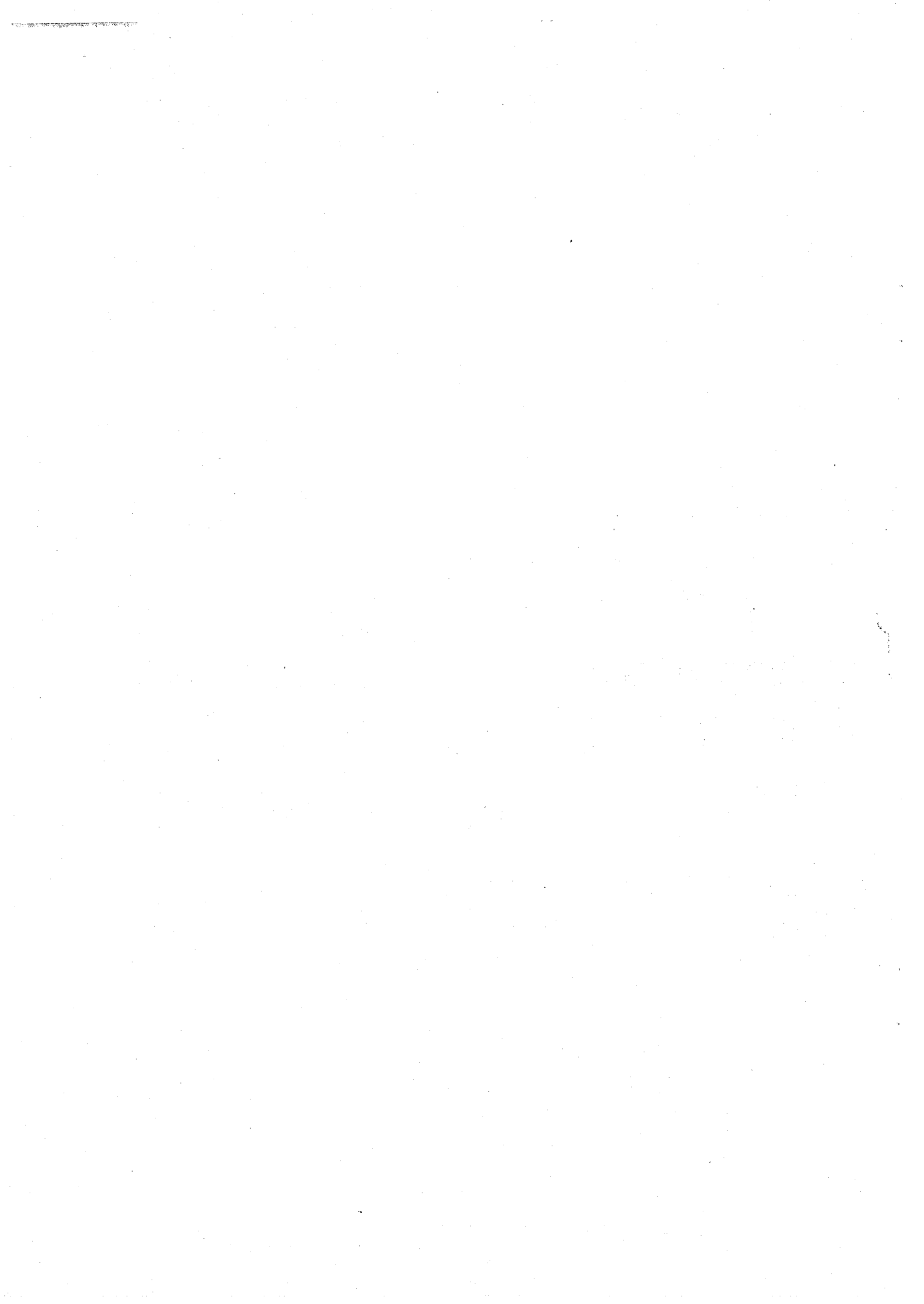
**㉛ PAUSE key**

Use to pause during tape playback or recording.  
Press again to release the pause.

**㉜ CD operation keys**

- ▶ (Play) ..... Function on the amplifier section is set to CD mode.  
Begins CD playback.
- (Pause) ..... Press to temporarily pause playback.
- (Stop) ..... Press to stop playback.
- DISC ..... Disc numbers can be selected when used together with a Pioneer magazine type CD player.
- ▶▶ (Track search) ..... When pressed once, play advances to the beginning of the next track; when pressed continuously, advances to further tracks.
- ◀◀ (Track search) ..... When pressed once, play returns to the beginning of the currently playing track; when pressed continuously, returns to earlier tracks.





## 6. RÉGLAGES

### 6.1 SECTION PLATINE A CASSETTE

#### 6.1.1 Réglage mécanique

● Les emplacements du réglage sont illustrés à la Fig.6 - 8.

1. Réglage de la vitesse de bande							
N°	Mode	Bande d'étalonnage	Emplacement du réglage		Point de réglage	Procédure de réglage	Remarques
1	LECTURE	Lire la passage préenregistré de 3kHz de la bande d'étalonnage STD-301.	Platine I	— (Vitesse double)	TP1 (canal gauche)	Mettre la platine I en mode de lecture et court-circuiter TP4 avec TP5. Enregistrer la valeur mesurée aux points de mesure.	Après le réglage, enlever le court-circuit.
2				VR751 (Vitesse normale)		Appuyer sur le sélecteur PLAY et régler desorte que la fréquence devienne 3015Hz.	
3			Platine II	VR752 (Vitesse double)	TP3 (canal droit)	Mettre la platine II en mode de lecture et court-circuiter TP4 avec TP5. Ajuster de sorte que la fréquence devienne égale à la valeur obtenue à l'étape n° 1.	Après le réglage, enlever le court-circuit.
4				VR753 (Vitesse normale)		Appuyer sur le sélecteur PLAY et régler de sorte que la fréquence devienne 3015Hz.	

#### 6.1.2 RÉGLAGES ÉLECTRIQUES

##### Conditions de réglage

1. Les réglages mécaniques doivent être avant tout terminés.
2. La tête doit être nettoyée et démagnétisée.
3. Mettre la platine sous tension pour la chauffer pendant quelques minutes, avant de commencer les réglages électriques.
4. Le signal de référence est  $0\text{dBv} = 1\text{V}$  efficace.
5. Raccorder une résistance de charge de  $50\text{k}\Omega$  (ou entre  $47$  à  $52\text{k}\Omega$ ) aux bornes OUTPUT.
6. Les interrupteurs énoncés ci-dessous sont laissés aux positions indiquées, sauf si spécifié autrement.

DOLBY NR : OFF

##### Bandes d'étalonnage

STD-331B : Réglages de lecture  
(voir Fig.6 - 1)

STD-608A : Bande vierge normale (NORMAL)

STD-620 : Bande vierge au chrome ( $\text{CrO}_2$ )

STD-610 : Bande vierge "métal" (METAL)

##### Liste des réglages

##### Sections de lecture

1. Réglage d'azimut de la tête
2. Vérification de la réponse en fréquence de lecture.
3. Réglage du niveau de la lecture.

##### Sections d'enregistrement

1. Réglage de fréquence d'oscillateur de polarisation.
2. Réglage du niveau d'enregistrement
3. Réglage de la polarisation d'enregistrement
4. Vérification de la réponse en fréquence de l'enregistrement et de la lecture.
5. Vérification de la réponse en fréquence du mode de duplication.

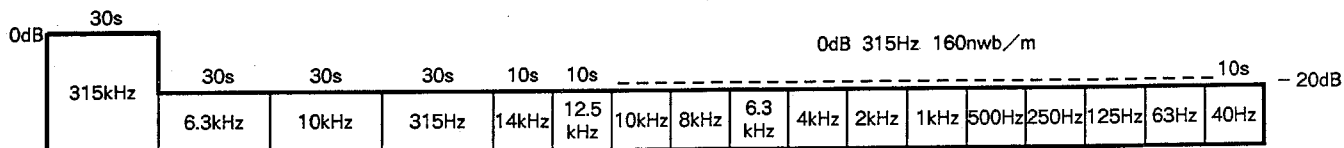


Fig.6 - 1 Fréquences enregistrées sur la bande d'étalonnage STD - 331B

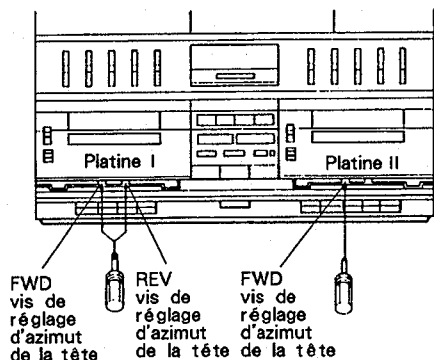


Fig.6 - 2 Réglage d'azimut de la tête

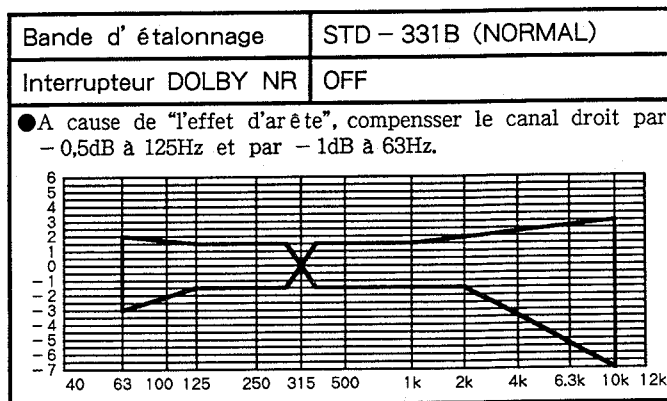


Fig.6 - 3 Zone de la réponse en fréquence de lecture admissible

**Section de Lecture**

1. Réglage d'azimut de la tête						
● Tourner VR551 et VR552 (platine II) sur leur positions mécaniques centrales.						
N°	Mode	Signal d'entrée et bande d'étalonnage	Emplacement du réglage	Emplacement de mesure	Valeur de réglage	Remarques
1	LECTURE	Lire le passage préenregistré de 10kHz/ -20dB de la bande d'étalonnage STD-331B.	Vis de réglage d'azimut de la tête (voir Fig.6-2)	TP1 (canal gauche) TP3 (canal droit)	Niveau maximal du signal de lecture	
2	ARRET	Le réglage terminé, verrouiller la vis à l'aide du verrou de vis.				
2. Vérification de la réponse en fréquence de lecture						
N°	Mode	Signal d'entrée et bande d'étalonnage	Emplacement du réglage	Emplacement de mesure	Valeur de réglage	Remarques
1	LECTURE	STD - 331B	—	TP1 (canal gauche) TP3 (canal droit)	La zone admissible, illustrée à la Fig.6 - 3, doit être satisfaite.	
3. Réglage du niveau de la lecture						
● Ce réglage détermine le niveau DOLBY NR et doit être effectué avec le plus grand soin.						
N°	Mode	Signal d'entrée et bande d'étalonnage	Emplacement du réglage	Emplacement de mesure	Valeur de réglage	Remarques
1	LECTURE	Lire le passage préenregistré de 315kHz/ 0dB de la bande d'étalonnage STD-331B.	Platine II VR551 (canal gauche) VR552 (canal droit)	TP1 (canal gauche) TP3 (canal droit)	-23,0dBv ± 2,5dB	



Section d'enregistrement

1. Réglage de fréquence d'oscillateur de polarisation							
N°	Mode	Signal d'entrée et bande d'étalonnage	Emplacement du réglage		Emplacement du mesure	Valeur de réglage	Remarques
1	ENREGISTRE - MENT	Charger la bande d'étalonnage STD - 610 sans signal d'entrée.	Platine II	T551	Fil de cavalier (voir Fig.6 - 8)	105kHz ± 1kHz	
2. Réglage du niveau d'enregistrement							
N°	Mode	Signal d'entrée et bande d'étalonnage	Emplacement du réglage		Emplacement du mesure	Valeur de réglage	Remarques
1	PAUSE A L'ENREGISTRE - MENT	appliquer un signal de 315kHz / - 20dBv aux bornes d'entrée.	-		-	-	
2		Commuter l'interrupteur DOLBY NR sur marche (ON).					
3	ENREGISTRE - MENT / LECTURE	Enregistrer le signal ci - dessus sur la bande d'étalonnage STD - 608A puis le reproduire.	Platine II	VR553 (canal gauche) VR554 (canal droit)	TP1 (canal gauche) TP3 (canal droit)	Compenser le niveau du signal de lecture de sorte qu'il devienne - 23,0dBv ± 2,5dB en répétant l'enregistrement et la lecture.	
3. Réglage de la polarisation d'enregistrement.							
● Le réglage terminé, faire attention à ne pas tomber en dessous de la polarisation, en vérifiant le taux de distorsion.							
N°	Mode	Signal d'entrée et bande d'étalonnage	Emplacement du réglage		Emplacement du mesure	Valeur de réglage	Remarques
1	ENREGISTRE - MENT	Enregistrer un signal de 315Hz et un signal de 10kHz à partir des bornes CD, puis les reproduire.	Platine II	VR555 (canal gauche) VR556 (canal droit)	TP1 (canal gauche) TP3 (canal droit)	Compenser le niveau du signal de lecture de 10kHz de sorte qu'il devienne - 23,0dBv ± 2,5dB contre le niveau du signal de 315kHz, en répétant l'enregistrement et la lecture.	
4. Vérification de la reponse en fréquence de l'enregistrement et de la lecture							
N°	Mode	Signal d'entrée et bande d'étalonnage	Emplacement du réglage		Emplacement du mesure	Valeur de réglage	Remarques
1	ENREGISTRE - MENT / LECTURE	STD - 608A (NORM) NR : OFF / ON	Vérifier		TP1 (canal gauche) TP3 (canal droit)	La zone admissible, illustrée à la Fig.6 - 4, doit être satisfaite.	
2	ENREGISTRE - MENT / LECTURE	STD - 620 (CrO <sub>2</sub> ) NR : OFF / ON	Vérifier		TP1 (canal gauche) TP3 (canal droit)	La zone admissible, illustrée à la Fig.6 - 5, doit être satisfaite.	

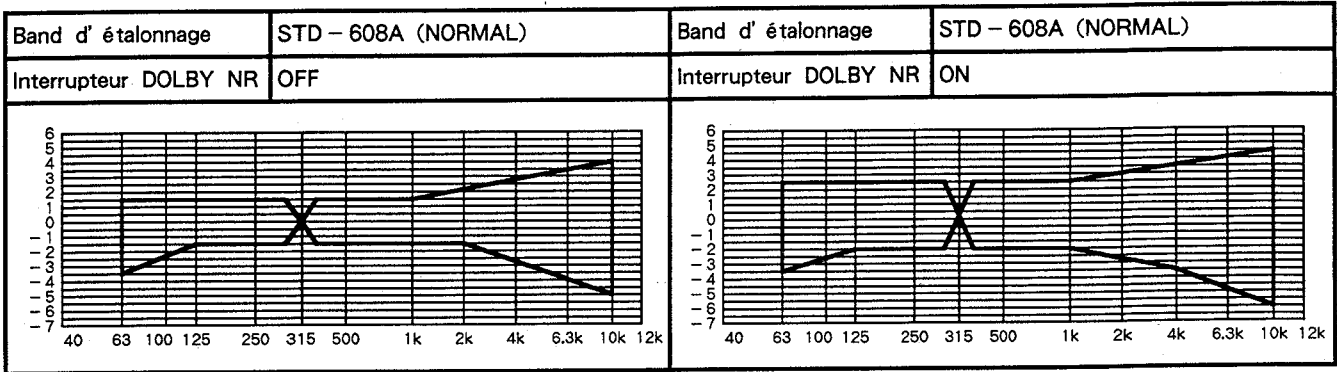


Fig.6 - 4 Zone de la réponse admissible de lecture et d'enregistrement (NORM)

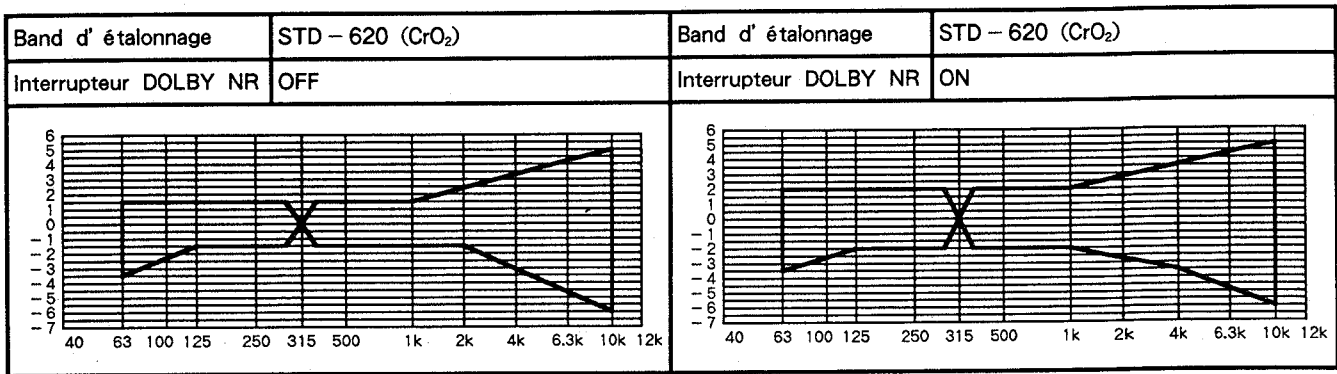


Fig.6 - 5 Zone de la réponse admissible de lecture et d'enregistrement (CrO<sub>2</sub>)

## 6.2 SECTION TUNER

### 6.2.1 Réglage du tuner AM (MW)

- Procéder aux connexions comme illustré à la Fig.6 - 6.
- Placer la fonction sur MW.

N°	Réglage	AM SG (400Hz, modulation 30 %)		RX - Z71L Affichage de la fréquence de réception	Emplacement du réglage	Spécifications du réglage
		Fréquence (kHz)	Niveau (dB $\mu$ V/m)			
1	Réglage de la tension OSC	—	—	531kHz	L103	Régler TP101 à 1,25V $\pm$ 0,1V.
2		—	—	1602kHz	TC101	Régler TP101 à 10V $\pm$ 0,5V.
3	Réglage de la sensibilité MW	603	74	603kHz	T101	Ajuster la tension de la borne de sortie (TP111 : canal gauche, TP109 : canal droit) sur le maximum.
4		1395		1395kHz	TC102	
5		603		603kHz	F102	

### 6.2.2 Réglage du tuner AM (LW)

- Procéder aux connexions comme illustré à la Fig.6 - 6.
- Placer la fonction sur LW.

N°	Réglage	AM SG (400Hz, modulation 30 %)		RX - Z71L Affichage de la fréquence de réception	Emplacement du réglage	Spécifications du réglage
		Fréquence (kHz)	Niveau (dB $\mu$ V/m)			
1	Réglage de la tension OSC	—	—	281kHz	L104	Régler TP101 à 4,95V.
2	Réglage de la sensibilité LW	164	74	164kHz	T102	Ajuster la tension de la borne de sortie (TP111 : canal gauche, TP109 : canal droit) sur le maximum.
3		254		254kHz	TC103	

## 6.2.3 Réglage du tuner FM

- Procéder aux connexions comme illustré à la Fig.6 - 7.
- Placer la fonction sur FM.

N°	Réglage	FM SG (1kHz ± 75kHz dev.)		RX - Z71L Affichage de la fréquence de réception	Emplacement du réglage	Spécifications du réglage
		Fréquence (MHz)	Niveau (dB μ)			
1	Réglage du T-mètre de la bobine de détection	98,0	60	98,0MHz	L109	Régler de sorte que la tension CC, entre les bornes TP104 et TP105, devienne 0V.
2	Réglage de la sensibilité FM	98,0	60	98,0MHz	L106 T103	Régler la tension de la borne de sortie (TP111 : canal gauche, TP109 : canal droit) sur le maximum.
3	Réglage de la distorsion stéréo	98,0	60 (* 1)	98,0MHz	T103 (dans 90°)	Régler la distorsion de la borne de sortie (TP111 : canal gauche, TP109 : canal droit) sur le minimum.
4	Réglage de niveau du témoin TUNE	98,0	20 (± 2)	98,0MHz	VR101	Régler de sorte que le témoin TUNE s'allume.
5	Réglage FM VCO	Pas de modulation	60	98,0MHz	VR102	Régler la fréquence de TP106 sur 76kHz ± 200Hz.

(\* 1) Modulation stéréo : Principale 1kHz G + D ± 68,25Hz de déviation  
Pilote 19kHz ± 6,75kHz déviation

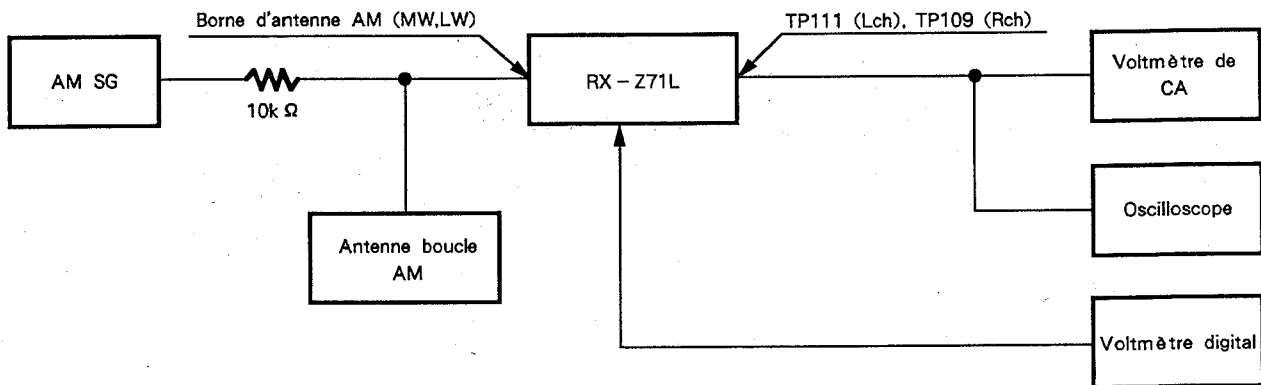


Fig.6 - 6 Diagramme de câblage de réglage AM

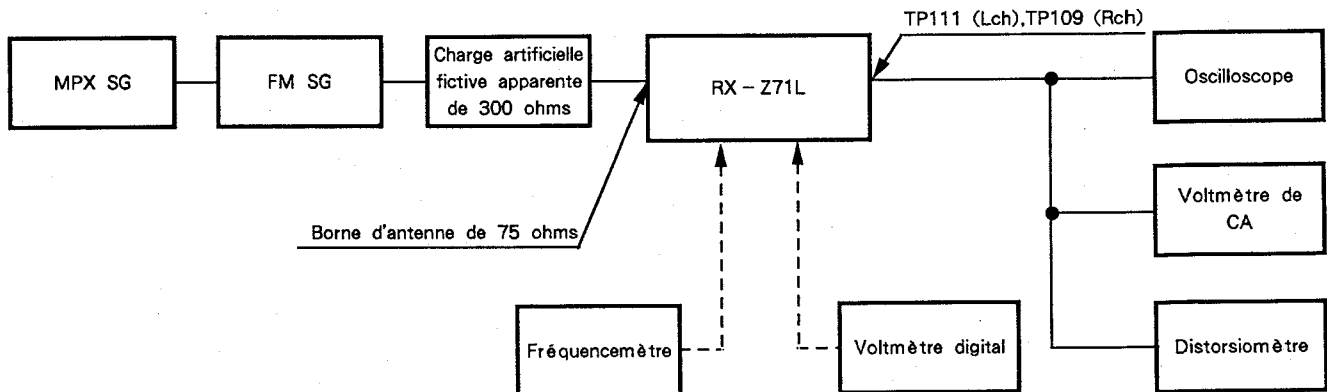


Fig.6 - 7 Diagramme de câblage de réglage FM

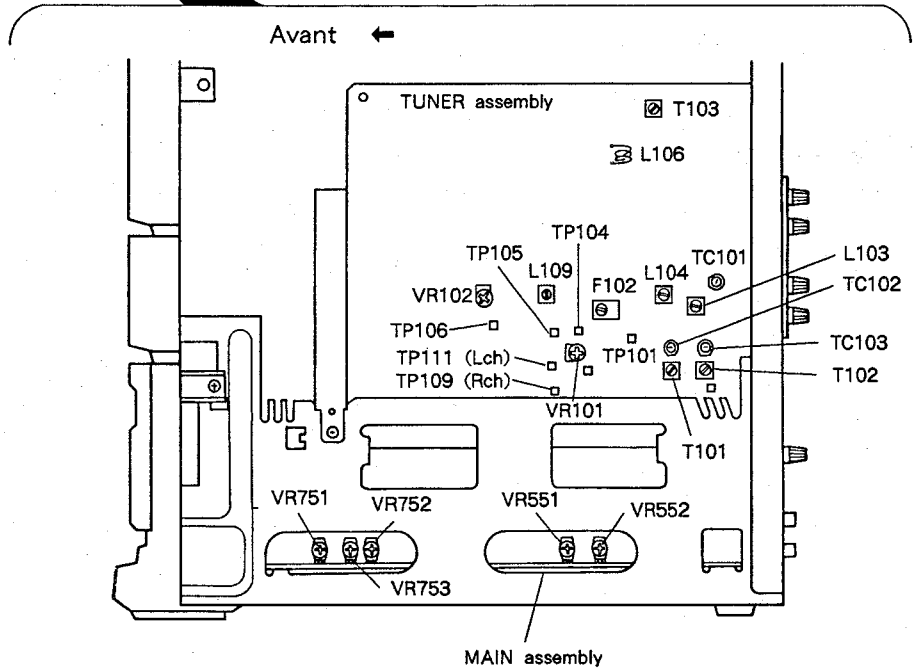
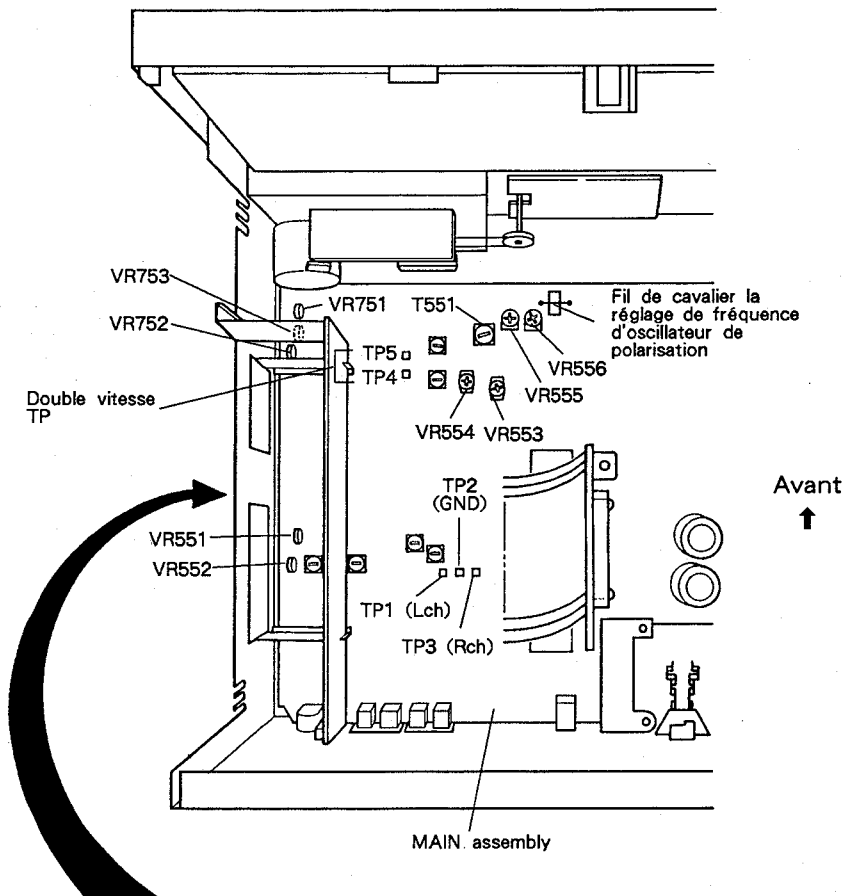


Fig.6 - 8 Point de réglage

## 6. AJUSTES

### 6.1 SECCIÓN DEL MAGNETÓFONO

#### 6.1.1 Ajustes mecánicos

● Los puntos de ajuste se muestran en la Fig.6 - 8

1. Ajuste de la velocidad de la cinta							
N.º	Modo	Cinta de prueba	Punto de ajuste		Punto de medición	Procedimiento de ajuste	Observaciones
1	Preproducción "PLAY"	Reproduzca la sección de 3kHz de la cinta de prueba STD-301.	Deck I	— (Velocidad doble)	TP1 (Canal izquierdo)	Ponga el deck I en el modo de reproducción, y cortocircuite TP4 y TP5. Anote el valor medido en los puntos de medición.	Después del ajuste, abra el cortocircuito.
2				VR751 (Velocidad normal)		Presione el selector PLAY y ajuste hasta obtener una frecuencia de 3015Hz.	
3			Deck II	VR752 (Velocidad doble)	TP3 (Canal derecho)	Ponga el deck II en el modo de reproducción, y cortocircuite TP4 y TP5. Ajuste hasta que la frecuencia sea igual al valor obtenido en el paso n.º 1.	Después del ajuste, abra el cortocircuito.
4				VR753 (Velocidad normal)		Presione el selector PLAY y ajuste hasta que la frecuencia sea de 3015Hz.	

#### 6.1.2 AJUSTES ELÉCTRICOS

##### Condiciones para el ajuste

1. Los ajustes mecánicos deben terminarse primero.
2. La cabeza debe limpiarse y desmanarse.
3. Antes de iniciar los ajustes eléctricos, deje el deck con la alimentación conectada durante algunos minutos para que se caliente.
4. La señal de referencia es de  $0\text{dBv} = 1\text{V}$  eficaz.
5. Conecte un resistor de carga de  $50\text{k}\Omega$  (o de  $47$  a  $52\text{k}\Omega$ ) entre los terminales OUTPUT.
6. A menos que se especifique de otra manera, los controles siguientes deberán dejarse en las posiciones indicadas.  
DOLBY NR : OFF

##### Cintas de prueba

- STD-331B : Ajustes de reproducción.  
(Véase la Fig.6 - 1)
- STD-608A : Cinta en blanco NORMAL
- STD-620 : Cinta en blanco  $\text{CrO}_2$
- STD-610 : Cinta en blanco METAL

##### Lista de ajustes

##### Sección de reproducción

1. Ajuste azimutal de la cabeza.
2. comprobación de la respuesta en frecuencia de reproducción.
3. Ajuste del nivel de reproducción.

##### Sección de grabación

1. Ajuste de la frecuencia de oscilación de polarización.
2. Ajuste del nivel de grabación.
3. Ajuste de la polarización de grabación.
4. Comprobación de la respuesta en frecuencia de grabación y reproducción.
5. Comprobación de la respuesta en frecuencia de reproducción en el modo de copia.

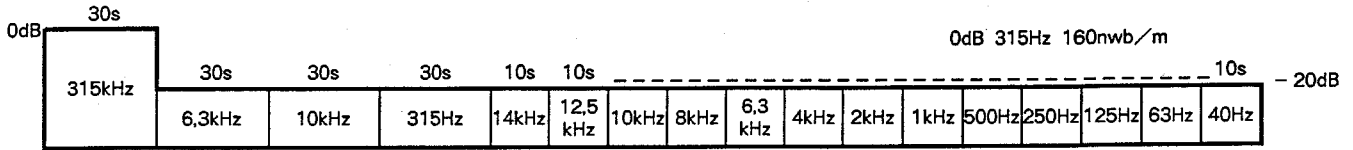


Fig.6 - 1 Contenido de la cinta de prueba STD - 331B

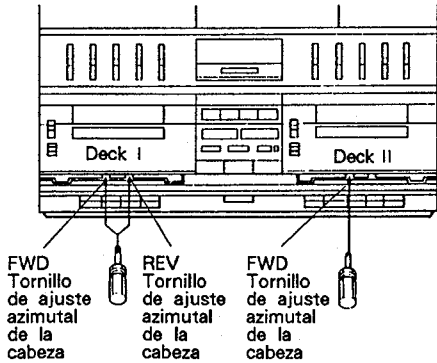


Fig.6 - 2 Ajuste azimutal de la cabeza

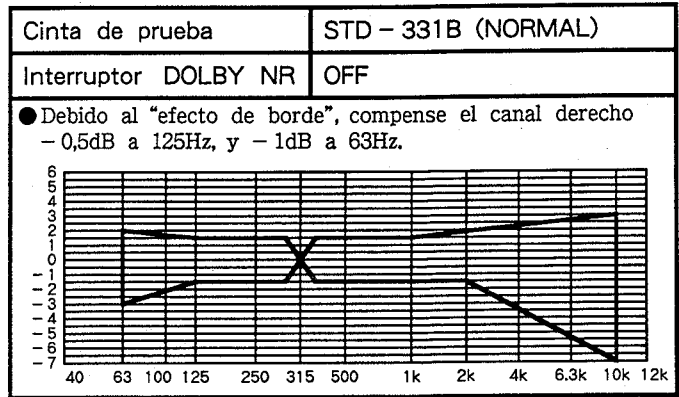


Fig.6 - 3 Zona de respuesta en frecuencia de reproducción permisible

**Sección de Reproducción**

1. Ajuste azimutal de la cabeza						
●Gire VR551 y VR552 (deck II) hasta la posición de su centro mecánico.						
N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste	Punto de medición	Valor de ajuste	Observaciones
1	Reproducción "PLAY"	Reproduzca la sección de 10kHz/-20dB de la cinta de prueba STD-331B.	Tornillo de ajuste azimutal de la cabeza (Véase la Fig.6 - 2)	TP1 (Canal izquierdo) TP3 (Canal derecho)	Nivel máximo de la señal de reproducción.	
2	Parada "STOP"	Después del ajuste, trabe el tornillo con compuesto inmovilizador.				
2. Comprobación de la respuesta en frecuencia de reproducción.						
N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste	Punto de medición	Valor de ajuste	Observaciones
1	Reproducción "PLAY"	STD-331B	-	TP1 (Canal izquierdo) TP3 (Canal derecho)	Debe satisfacerse la zona permisible mostrada en la Fig. 6 - 3.	
3. Ajuste del nivel de reproducción						
●Este ajuste determina el nivel de DOLBY NR, por lo que debe efectuarse con mucho cuidado.						
N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste	Punto de medición	Valor de ajuste	Observaciones
1	Reproducción "PLAY"	Reproduzca la sección de 315Hz/0dB de la cinta de prueba STD-331B.	Deck II VR551 (Canal izquierdo) VR552 (Canal derecho)	TP1 (Canal izquierdo) TP3 (Canal derecho)	- 23,0dBv ± 2,5dB	

## Sección de Grabación

1. Ajuste de la frecuencia de oscilación de polarización							
N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste		Punto de medición	Valor de ajuste	Observaciones
1	Grabación "REC"	Coloque la cinta de prueba STD-610 sin señal de entrada.	Deck II	T551	Hilo cortocircuitador (Véase la Fig.6-8.)	105kHz ± 1kHz	
2. Ajuste del nivel de grabación							
N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste		Punto de medición	Valor de ajuste	Observaciones
1	Grabación en pausa "REC PAUSE"	Aplique una señal de 315Hz / -20dBv a los terminales de entrada CD.	-		-	-	
2		Ponga el interruptor DOLBY NR en la posición ON.					
3	Grabación/reproducción "REC/PLAY"	Grabe la señal indicada arriba en la cinta de prueba STD-608A, y reprodúzcala.	Deck II	VR553 (Canal izquierdo) VR554 (Canal derecho)	TP1 (Canal izquierdo) TP3 (Canal derecho)	Compense el nivel de la señal de reproducción hasta que sea de -23,0dBv ± 2,5dB repitiendo la grabación y la reproducción.	
3. Ajuste de la polarización de grabación							
● Después del ajuste, tenga cuidado para que no haya subpolarización comprobando la proporción de distorsión.							
N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste		Punto de medición	Valor de ajuste	Observaciones
1	Grabación "REC"	Grabe una señal de 315Hz y otra de 10kHz a través de los terminales de entrada CD, y reprodúzcalas.	Deck II	VR555 (Canal izquierdo) VR556 (Canal derecho)	TP1 (Canal izquierdo) TP3 (Canal derecho)	Compense el nivel de la señal de reproducción de 10kHz hasta que sea de -23,0dBv ± 2,5dB en comparación con el nivel de la señal de 315Hz repitiendo la grabación y la reproducción.	
4. Comprobación de la respuesta en frecuencia de grabación y reproducción							
N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste		Punto de medición	Valor de ajuste	Observaciones
1	Grabación/reproducción "REC/PLAY"	STD-608A (NORM) NR: OFF/ON	Compruebe		TP1 (Canal izquierdo) TP3 (Canal derecho)	Debe satisfacerse la zona permisible mostrada en la Fig.6-4.	
2	Grabación/reproducción "REC/PLAY"	STD-620 (CrO <sub>2</sub> ) NR: OFF/ON	Compruebe		TP1 (Canal izquierdo) TP3 (Canal derecho)	Debe satisfacerse la zona permisible mostrada en la Fig.6-5.	



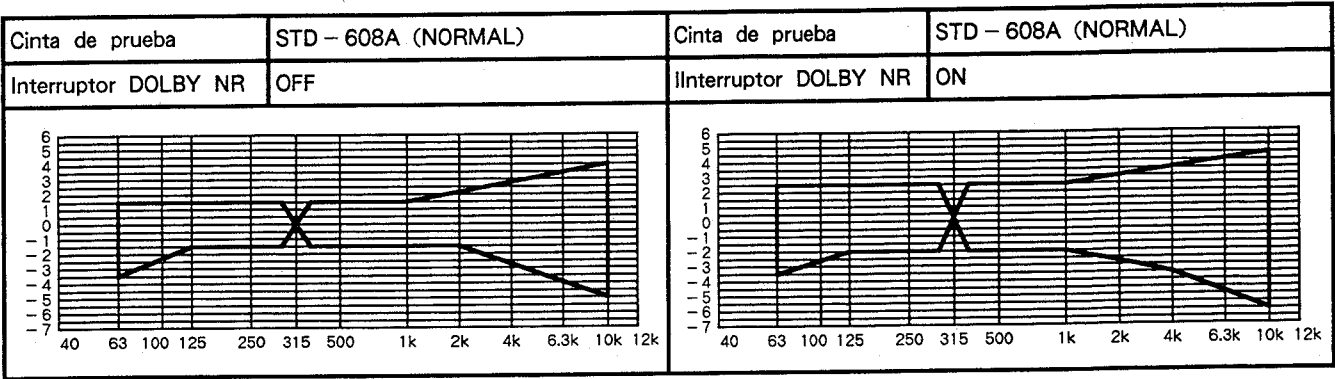


Fig.6 - 4 Zone de respuesta de frecuencia de grabacion y reproducción permisible (NORM)

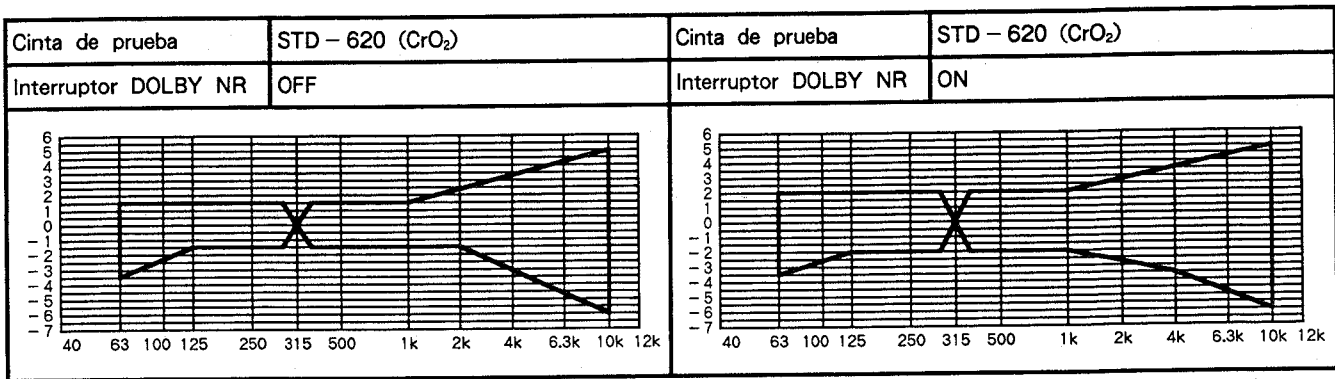


Fig.6 - 5 Zone de respuesta de frecuencia de grabacion y reproducción permisible (CrO<sub>2</sub>)

## 6.2 SECCIÓN DEL SINTONIZADOR

### 6.2.1 Ajuste del sintonizador de AM (MW)

- Realice las conexiones mostradas en la Fig. 6-6.
- Ponga el selector de función en MW.

N.º	Ajuste	Generador de señal de AM (400Hz, modulación al 30%)		RX - Z71L Indicación de la frecuencia recibida	Punto de ajuste	Procedimiento de ajuste
		Frecuencia (kHz)	Nivel (dB $\mu$ V/m)			
1	Ajuste de la tensión del oscilador	—	—	531kHz	L103	Ajuste TP101 a $1,25V \pm 0,1V$ .
2		—	—	1602kHz	TC101	Ajuste TP101 a $10V \pm 0,5V$ .
3	Ajuste de la sensibilidad de MW	603	74	603kHz	T101	Aumente al máximo la tensión entre los terminales de salida (TP111 : canal izquierdo y TP109 : canal derecho) y masa.
4		1395		1395kHz	TC102	
5		603		603kHz	F102	

### 6.2.2 Ajuste del sintonizador de AM (LW)

- Realice las conexiones mostradas en la Fig. 6-6.
- Ponga el selector de función en LW.

N.º	Ajuste	Generador de señal de AM (400Hz, modulación al 30%)		RX - Z71L Indicación de la frecuencia recibida	Punto de ajuste	Procedimiento de ajuste
		Frecuencia (kHz)	Nivel (dB $\mu$ V/m)			
1	Ajuste de la tensión del oscilador	—	—	281kHz	L104	Ajuste TP101 a 4,95V.
2	Ajuste de la sensibilidad de LW	164	74	164kHz	T102	Aumente al máximo la tensión entre los terminales de salida (TP111 : canal izquierdo y TP109 : canal derecho) y masa.
3		254		254kHz	TC103	

**6.2.3 Ajuste del sintonizador de FM**

● Realice las conexiones mostradas en la Fig. 6 - 7.

6 - 7.

● Ponga el selector de función en FM.

N°	Ajuste	Generador de señal de FM (1kHz ± 75kHz de desviación)		RX - Z71L Indicación de la frecuencia recibida	Punto de ajuste	Procedimiento de ajuste
		Frecuencia (MHz)	Nivel (dB μ)			
1	Ajuste de T METER de la bobina de detección	98,0	60	98,0MHz	L109	Ajuste hasta que la tensión de CC entre los terminales TP104 y TP105 sea de 0V.
2	Ajuste de la sensibilidad de FM	98,0	60	98,0MHz	L106 T103	Aumente al máximo la tensión entre los terminales de salida (TP111 : canal izquierdo y TP109 : canal derecho) y masa.
3	Ajuste de la distorsión en estéreo	98,0	60 (* 1)	98,0MHz	T103 (dentro de 90°)	Disminuya al mínimo la tensión entre los terminales de salida (TP111 : canal izquierdo y TP109 : canal derecho) y masa.
4	Ajuste del nivel del indicador TUNED.	98,0	20 (± 2)	98,0MHz	VR101	Ajuste hasta que se encienda el indicador TUNED.
5	Ajuste del VCO de FM	Sin modulacion	60	98,0MHz	VR102	Ajuste hasta que la frecuencia de TP106 sea de 76kHz ± 200Hz.

(\* 1) Modulación en estéreo :Principal : 1kHz, canales izquierdo + derecho ± 68,25Hz de desviación  
Piloto : 19kHz ± 6,75kHz de desviación

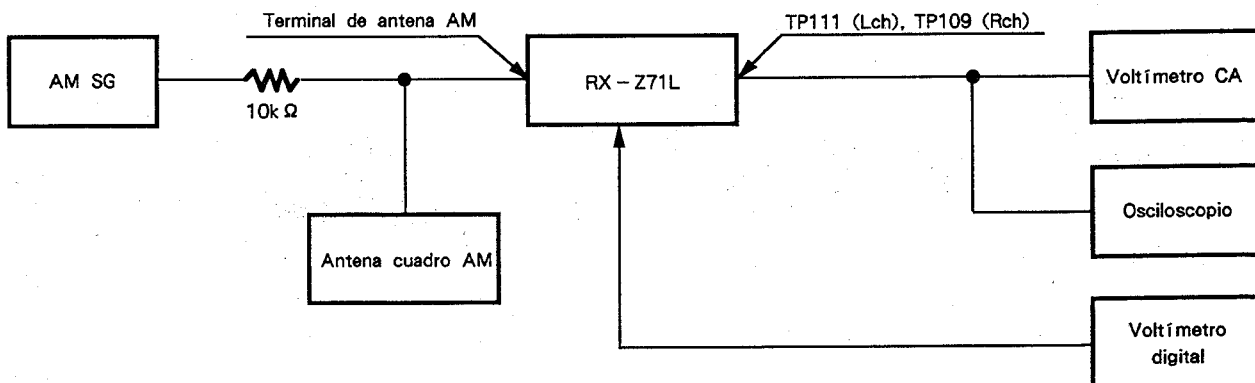


Fig.6 - 6 Esquema de alambado de ajuste AM (MW,LW)

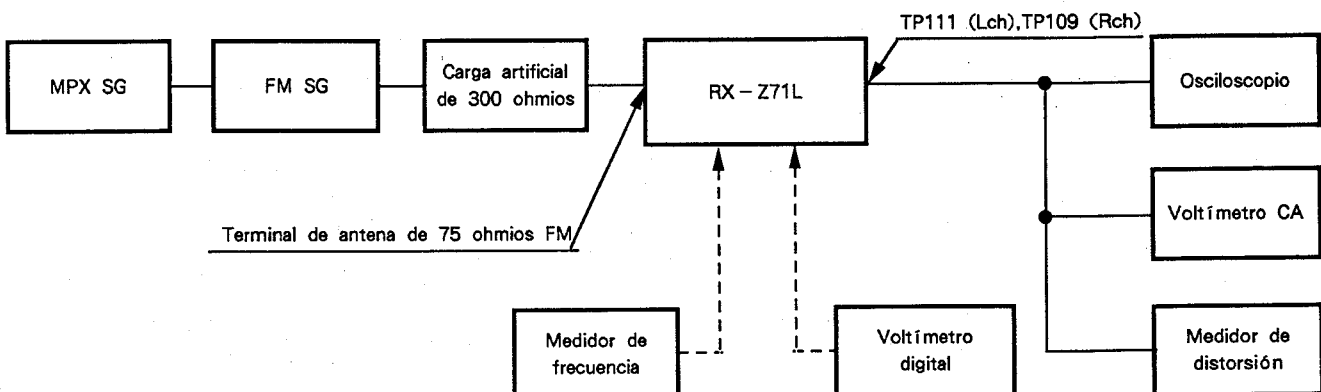


Fig.6 - 7 Esquema de alambado de ajuste FM

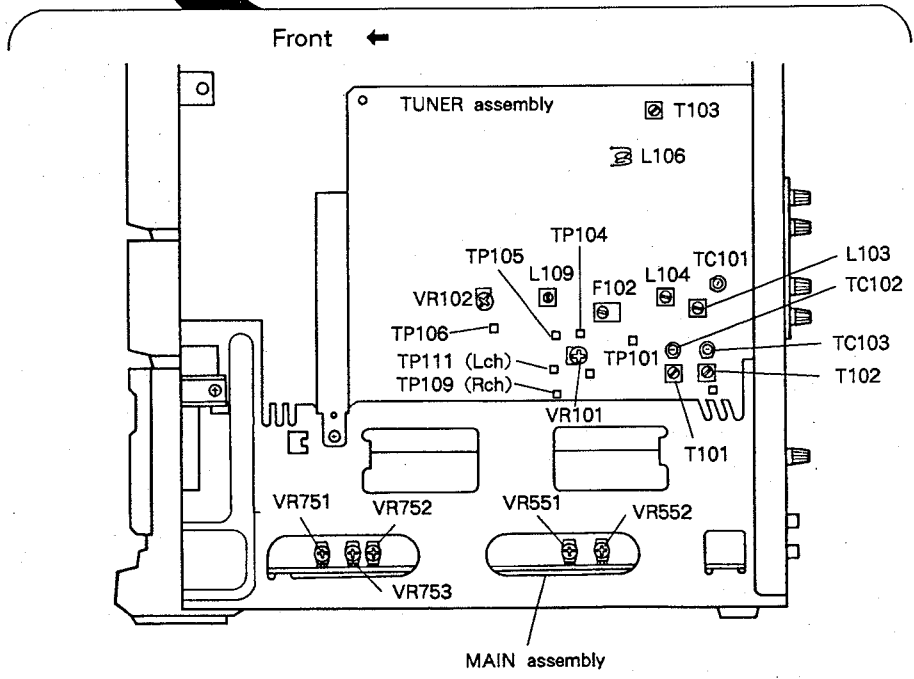
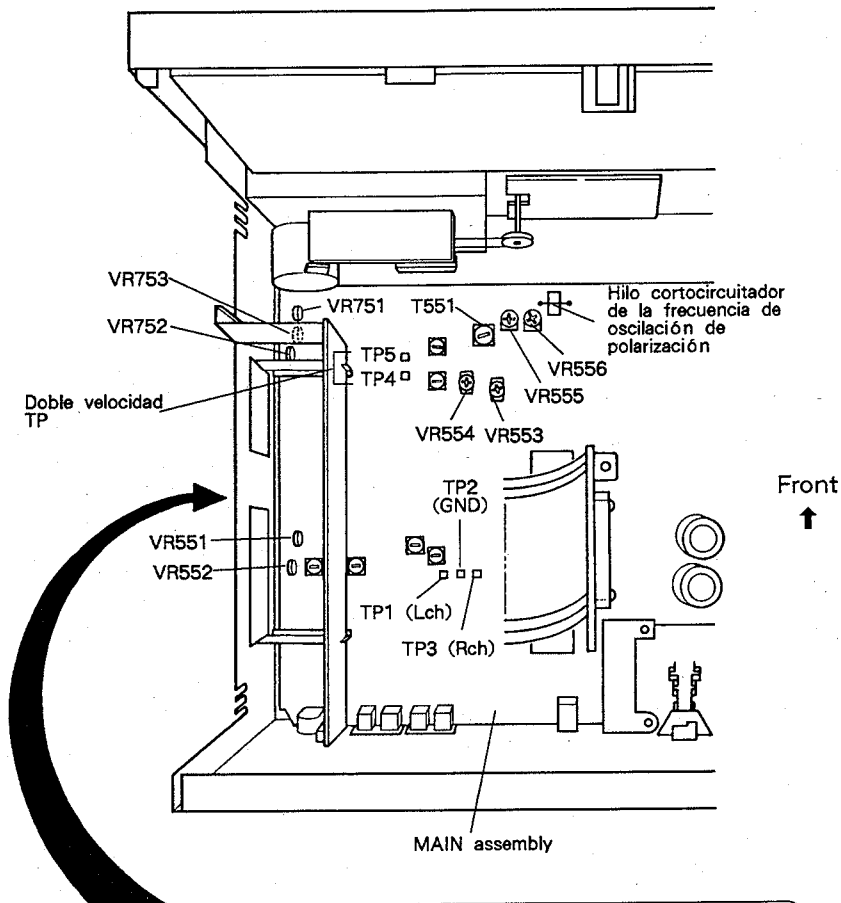


Fig.6 - 8 Punto de ajuste