

ORDER NO.
ARP1959

STEREO DOUBLE CASSETTE DECK

CT-V630R CT-W530R-S

CT-W630R, CT-W530R AND CT-W530R-S HAVE FOLLOWING VERSIONS:

Туре	Applicable model			Dower romiroment	Francia destination
	CT-W630R	CT-W530R	CT-W530R-S	Power requirement	Export destination
KUC	0	0		AC120V only	U.S.A. and Canada
HEM	0	0		AC220V, 240V (switchable)	European continent
HEWM			0	AC220V, 240V (switchable)	European continent
НВ	0			AC220V, 240V (switchable)	United Kingdom
HPW	0	0		AC220V, 240V (switchable)	Australia
SD	0	0		AC110V, 120V – 127V, 220V, 240V (switchable)	Kingdom of Saudi Arabia and general market
KUCXJ		0		AC120V only	U.S.A. and Canada
HEMXJ		0		AC220V, 240V (switchable)	European continent

- This manual is applicable to the KUC, KUCXJ, HEM, HEMXJ, HB, HEWM, HPW and SD types.
- ◆ As to the CT—W630R / HEM, HB, HPW and SD types, refer to pages 41, 42.
- As to the CT-W530R/KUC, KUCXJ, HEM, HEMXJ, HPW, SD and CT-W530R-S/HEWM types, refer to pages 43, 44.
- ◆ Ce manuel pour le service comprend les explications de réglage en français.
- Este manual de servicio trata del método ajuste escrito en español.

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

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

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

WARNING

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

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

1. SAFETY INFORMATION

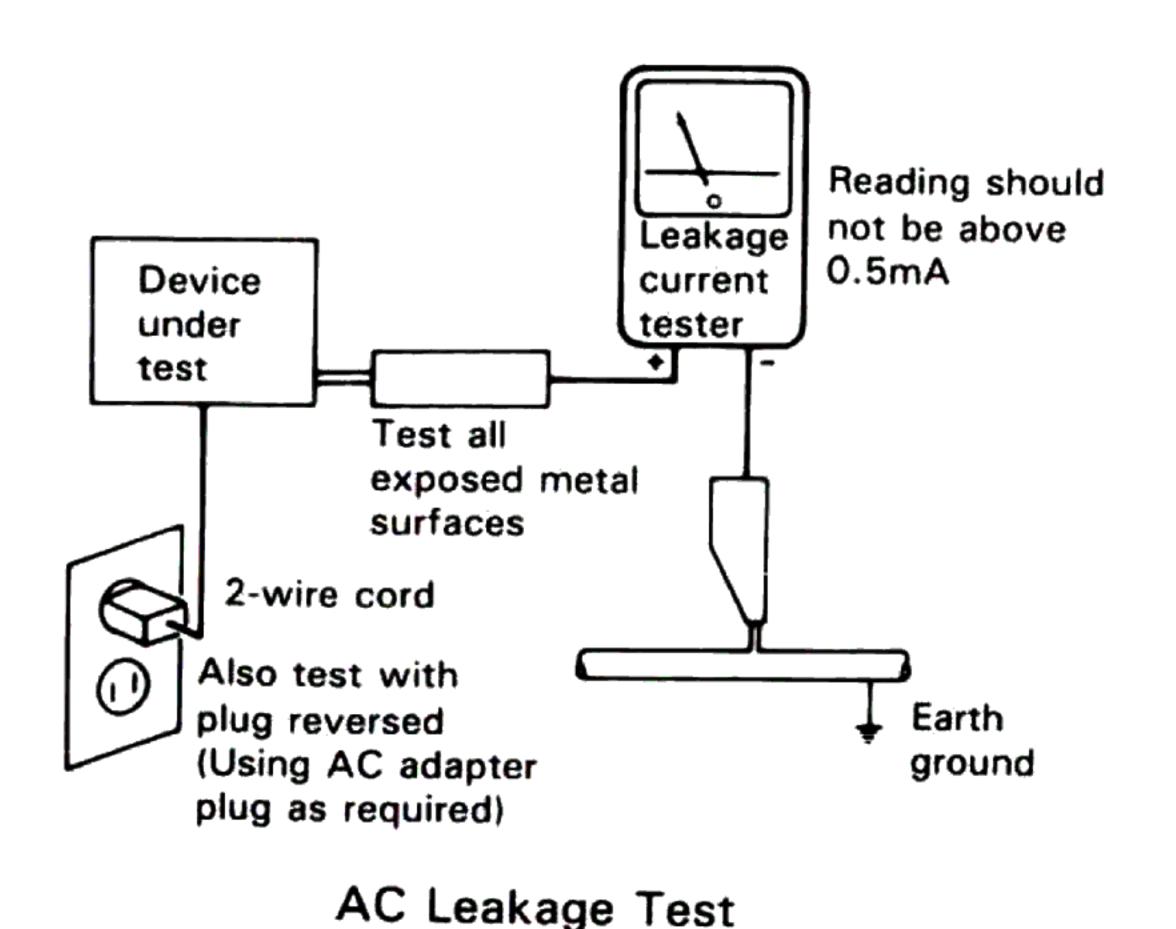
(FOR USA MODEL ONLY)-

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



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.

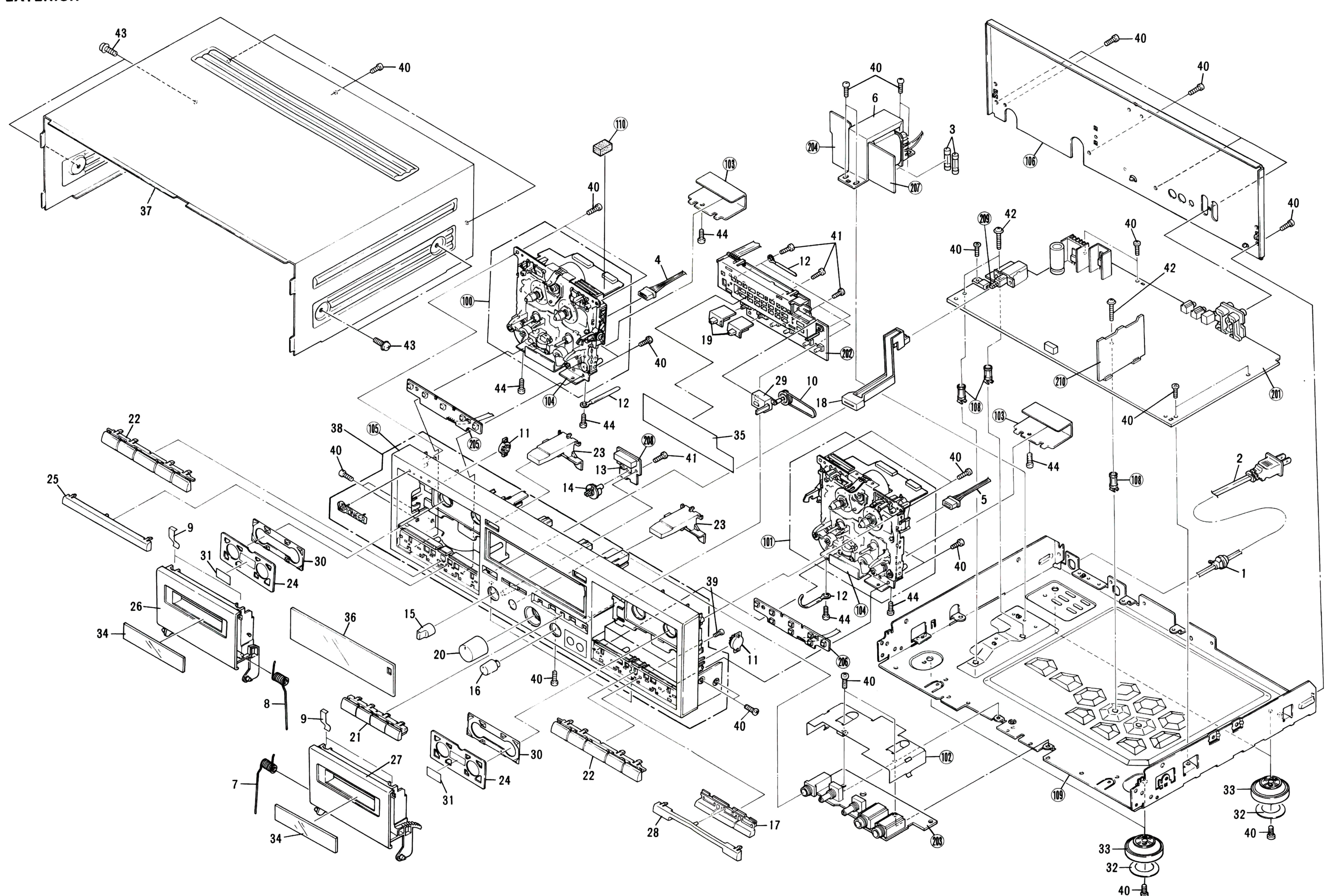
Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose 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

2.1 EXTERIOR



NOTES:

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

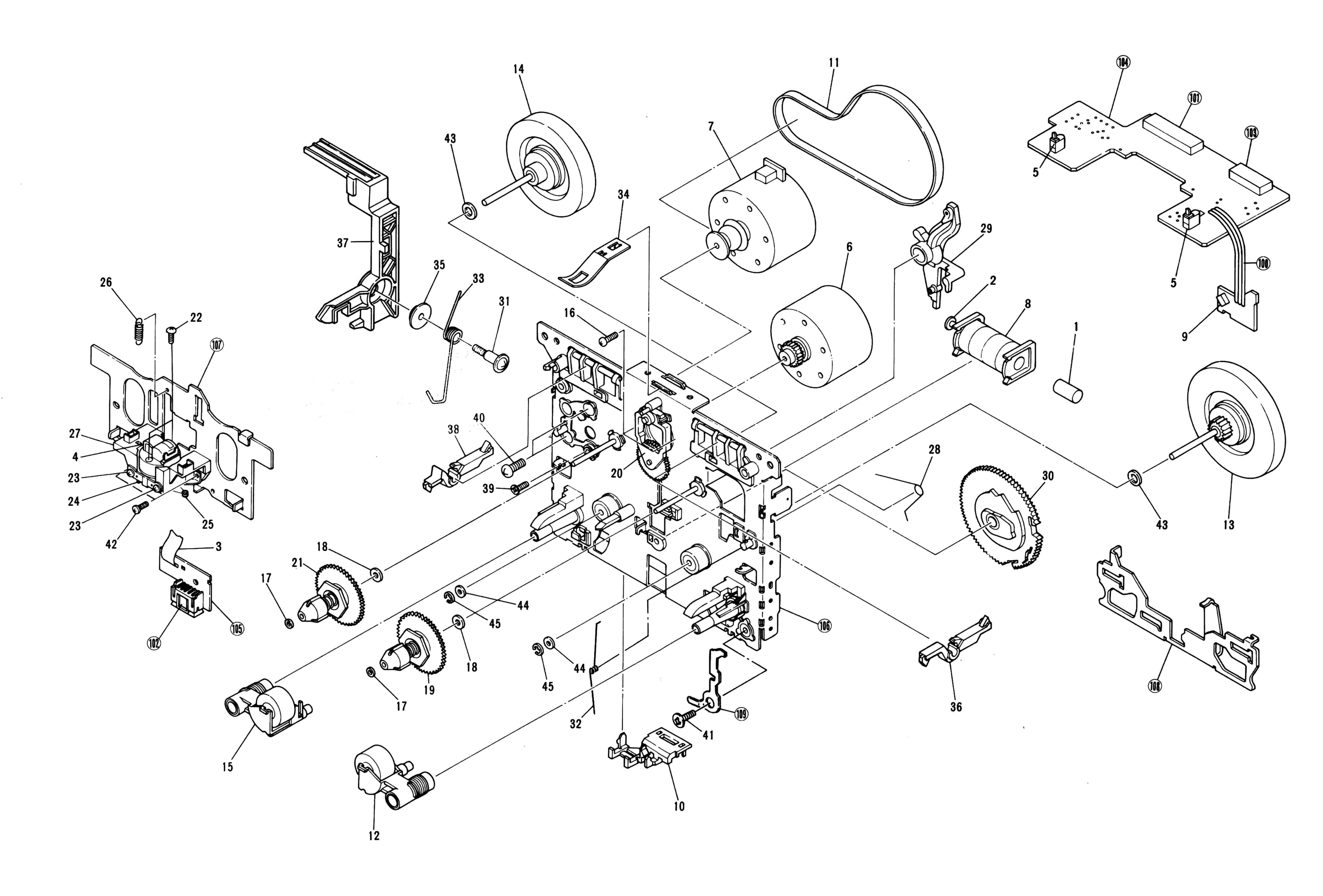
Parts List of Exterior

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
⚠ ⚠ ⚠	1 2 3	CM-22 RDG1010 REK1001	Strain relief AC power cord FU1801, FU1802 Fuse (1.5A)		105 106 107 108		Front panel Rear panel PCB spacer
⚠ ⚠	4 5	RKP1322 RKP1323	Connector assembly 3P Connector assembly 5P		109		Main chassis (FE)
	6 7 8 9 10	RTT1116 RBH1254 RBH1255 RBK1004 REB1046	Power transformer Door spring (L) Door spring (R) Half pressure spring Counter belt		110 201 202 203 204 205		Main unit Display unit Volume unit Transformer 1 unit Control SW (1) unit
	13 14	REC1005 RNH-184 RNK1522 RNK1523 RAC1414	Damper assembly Cord clamper SW cap Rotary SW shaft Knob (B)		203 206 207 208 209 210		Control SW (1) unit Transformer 2 unit Switch unit Regulator unit HX unit
	17 18 19	RAC1424 RAC1427 RAC1428 RAC1430	VR knob (B) Operation knob (B) Power knob Slide knob VR knob (A)		210		
	22 23 24	RAC1479 RAC1480 RAH1483 RAH1608	Operation knob (C) Operation knob (A) Eject knob Stabilizer panel REC mold (L)				
	27 28 29	RAH1610 RAH1611 RAW1022 REB1085	Door pocket (L) Door pocket (R) REC mold Counter Stabilizer (B)				
	32 33 34	REE-113 VEC1061 VNK1095 RAH1605 RAH1606	Remain display paper Stopper Insulator Door lens Meter panel				
	37 38 39	RAH1607 RXX1079 RXX1259 BBZ20P080FMC BBZ30P080FMC	Meter lens Bonnet Front panel assembly Screw Screw				
	43	BBZ30P100FZK IBZ30P150FCU FBT40P080FZK VCZ26P060FMC					
	100 101 102 103 104		Mechanism unit Mechanism unit Shield case Mechanism shield plate Mechanism bracket				

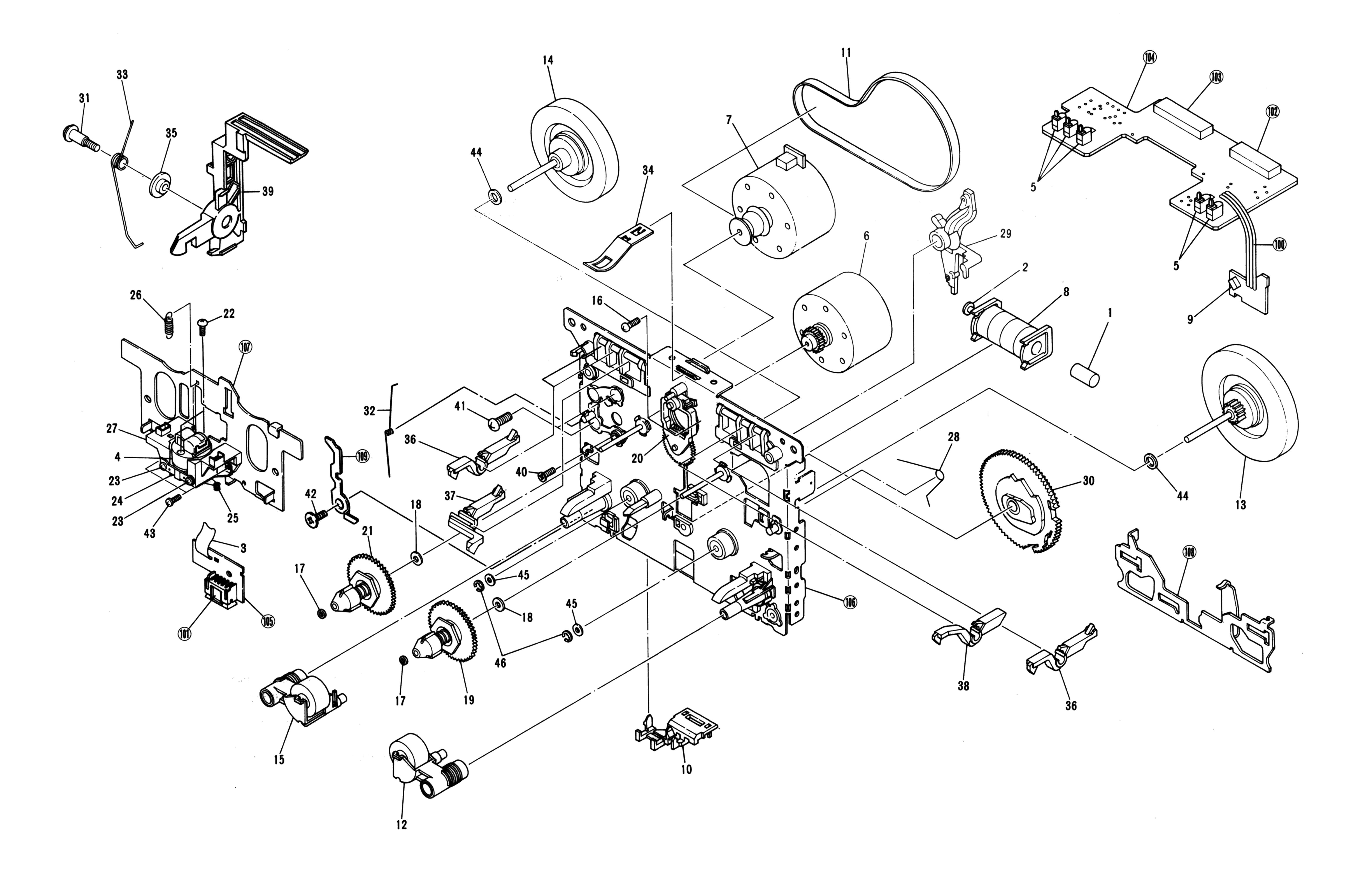
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Parts List of Mechanism Unit (Deck 1)

Mark N	lo.	Part No.	Description
	2 3 4	RLA1130 RLA1132 RNP1235 RPB1031 RSG1018	Shaft Planger HD FPC (PB) PB head Push switch
	7 8 9	RXM1029 RXM1030 RXP1010 SPI33534FG RNK1530	Motor assembly (Main) Solenoid Photo transistor Wire holder
	12 13 14	REB1112 RXA1183 RXA1294 RXA1295 RXA1296	Main belt Pinch roller assembly Flywheel assembly Flywheel assembly Pinch roller assembly (L)
	17 18 19	RBA1076 RBF·-057 RBF1038 RXA1184 RXA1248	Screw Washer Washer TU reel assembly Idler assembly
	22 23 24	RXC-040 PMZ14P050FNI RBA1080 RBK1029 RBL-085	TU reel assembly Screw Azimuth screw Azimuth spring Rotation spring
	27 28 29	RBL1003 RXA1293 RBH1239 RNK1525 RNK1526	Head base spring Head housing assembly Slide spring Play arm Cam gear
	33 34	RBA1078 RBH1230 RBH1264 RBK1031 RLA1146	Screw Eject prevention spring (R) Eject lever spring (R) Cassette hold spring Lever collar (B)
	37 38 39	RNK1527 RNK1594 RNK1625 PBZ30P080FMC PMZ26P050FMC	
	42 43 44	RBA1048 RBA1077 WA26D045D025 WA26D047D050 YE15FUC	
1	00		Tripe – conductor jumper wire
1 (01 02 03 04 05		Connector (10P) Connector (3P) Connector (4P) P.C. board Head P.C.B
1	06 07 08 09		Chassis assembly Head base Slide plate Eject prevention arm (R)



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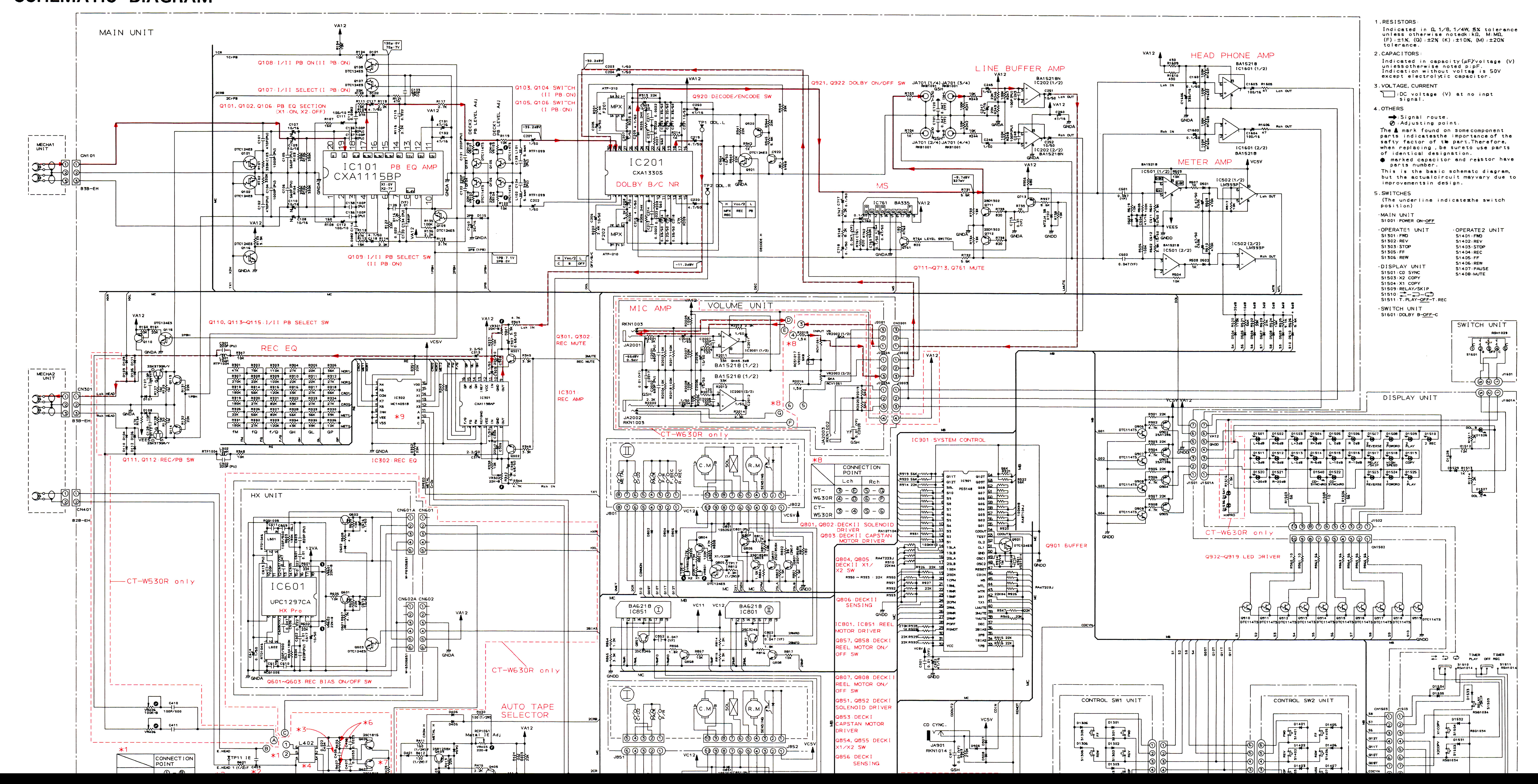


Parts List of Mechanism Unit (Deck II)

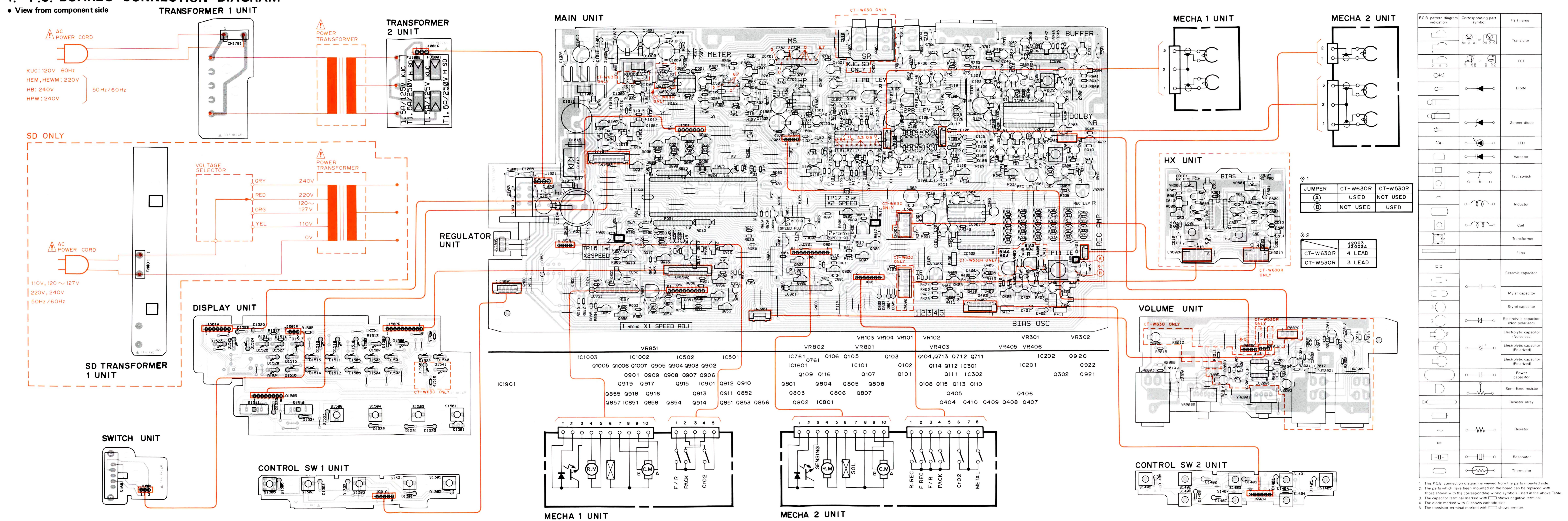
Mark	No.	Part No.	Description
	1 2 3 4 5	RLA1130 RLA1132 RNP1232 RPB1030 RSG1018	Shaft Planger HD FPC (R/P) R/P, E head Push switch
	6 7 8 9 10	RXM1029 RXM1030 RXP1010 SPI33534FG RNK1530	Motor assembly (Main) Solenoid Photo transistor Wire holder
	12 13 14	REB1112 RXA1183 RXA1294 RXA1295 RXA1296	Main belt Pinch roller assembly Flywheel assembly Flywheel assembly Pinch roller assembly (L)
	16 17 18 19 20	RBA1076 RBF-057 RBF1038 RXA1184 RXA1248	Screw Washer Washer TU reel assembly Idler assembly
		RXC-040 PMZ14P050FNI RBA1080 RBK1029 RBL-085	TU reel assembly Screw Azimuth screw Azimuth spring Rotation spring
	26 27 28 29 30	RBL1003 RXA1293 RBH1239 RNK1525 RNK1526	Head base spring Head housing assembly Slide spring Play arm Cam gear
	31 33 34 35	RBA1078 RBH1234 RBH1262 RBK1031 RLA1146	Screw Eject prevention spring (L) Eject lever spring (L) Cassette hold spring Lever collar (B)
	38 39	RNK1529 RNK1543 RNK1593 PBZ30P080FMC	REC detection lever Metal detection lever (L) PACK detection lever (P) Eject lever (L) Screw
	43 44	PMZ26P050FMC RBA1048 RBA1077 WA26D045D025 WA26D047D050	Screw Screw Washer
	46	YE15FUC	Washer
	100		Tripe – conductor jumper wire
	101 102 103 104 105		Connector (5P) Connector (7P) Connector (10P) P.C. board Head P.C.B (R/P)
	106 107 108 109		Chassis assembly Head base Slide plate Eject prevention arm (L)

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3. SCHEMATIC DIAGRAM

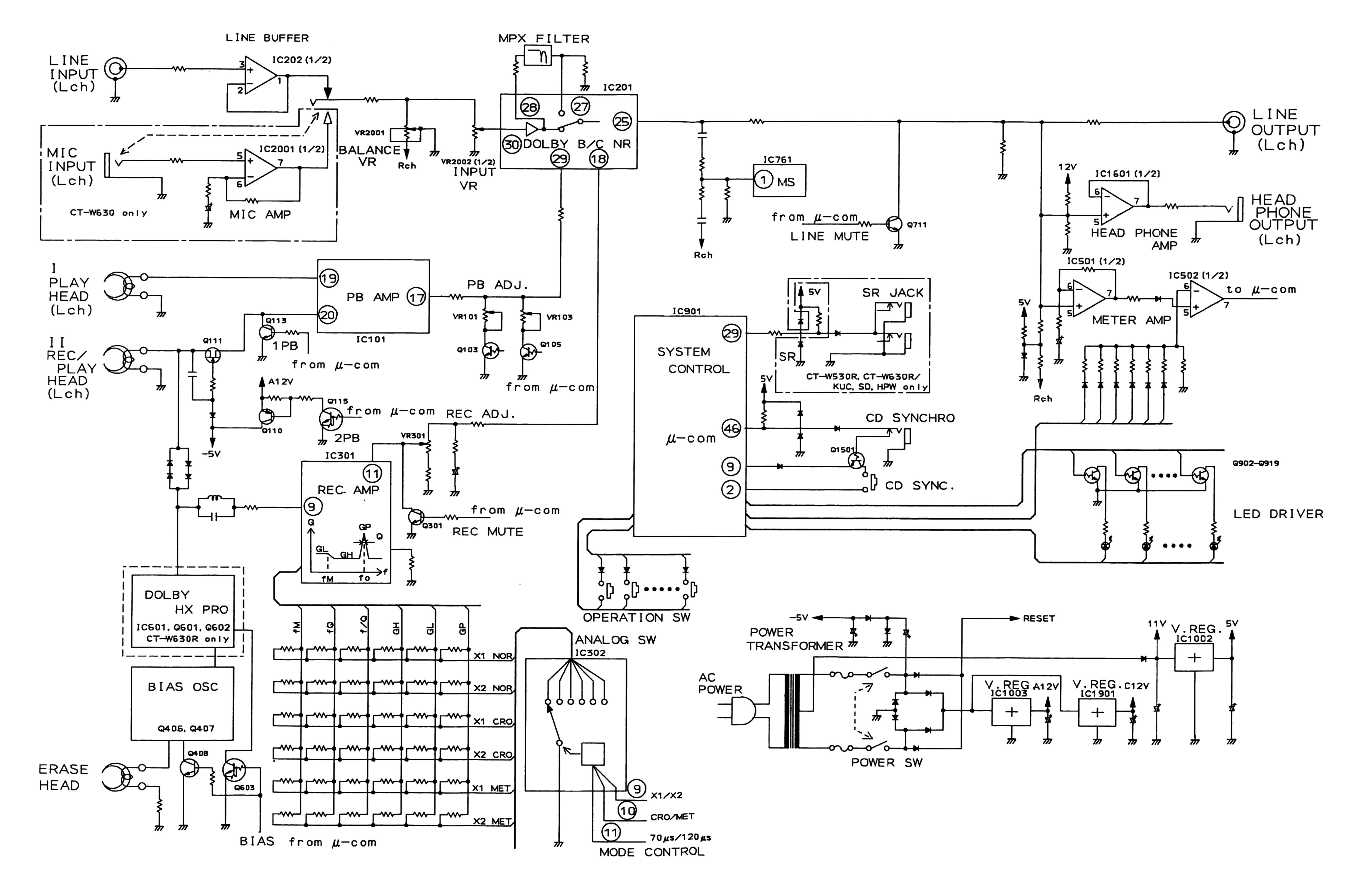


4. P.C. BOARDS CONNECTION DIAGRAM



4. P.C. BOARDS CONNECTION DIAGRAM TRANSFORMER 1 UNIT View from soldering side MECHA 2 UNIT MAIN UNIT MECHA 1 UNIT TRANSFORMER HPW:240V DISPLAY UNIT VOLUME UNIT BIAS OSC 1 MECHA X1 SPEED ADJ 10202 9920 1C761 Q761 IC1601 Q104,Q713 Q712 Q711 SD TRANSFORMER Q1005 Q1006 Q1007 Q905 Q904 Q903 Q902 Q114 Q112 1C301 Q302 Q921 Q109 Q116 Q901 Q909 Q908 Q907 Q906 Q108 Q115 Q110 Q855 Q918 Q916 Q404 Q410 Q409 Q408 Q407 Q802 IC801 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 9 10 12345 1 2 3 4 5 6 7 8 9 10 SWITCH UNIT CONTROL SW 2 UNIT CONTROL SW 1 UNIT MECHA 2 UNIT MECHA 1 UNIT

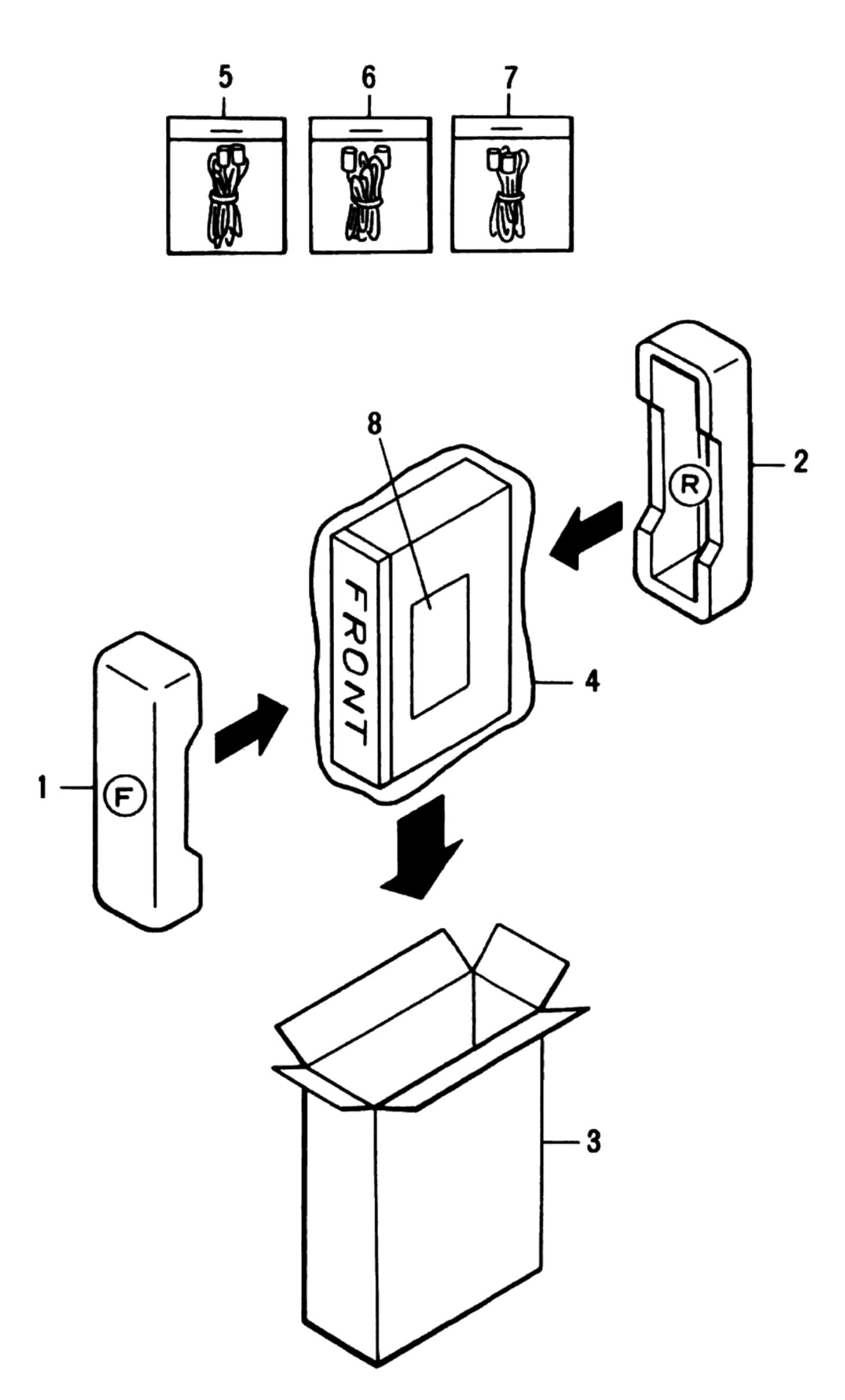
5. BLOCK DIAGRAM



6. PACKING

Parts List

Mark	No.	Part No.	Description
	3	RHA1024 RHG1164 RHX-034 PDE-319	Pad (A) Pad (B) Packing case Sheet Connection cord (Mini)
	6 7 8	RDE1018 RDE-010 RRB1058	Control cord Connection cord Operating instructions (English)



7. 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 A mark found on some component parts indicates the impotance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

J — 0/0,	and it—10,	47.	
560 Ω	56×10^{1}	561	RD1/4PS [5] [6] J
$47k\Omega$	47×10^3	473	RD1/4PS473J
0.5Ω	0R5	•••••••	RN2H 0 R 5 K
1Ω	010	••••••	RS1P[0][1]0 K

Miscellaneous Parts

P.C. BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
	Main unit Display unit Volume unit Transformer 1 unit Transformer 2 unit		Â	IC301 IC201 IC502 IC302 IC1002	CXA1198AP CXA1330S LM393P MC14051B MC7805CT
	Control SW (1) unit Control SW (2) unit Switch unit Regulator unit HX unit		⚠	IC1003 IC901 Q103-Q106, Q906-Q919 Q101, Q102, Q107-Q109, Q115, Q116, Q805, Q855, Q901, Q921 Q902, Q903	MC7812CT PD3148 DTC114TS DTC124ES 2SA1286
OTHE	RS				
Mark AAAAA A	Strain relief AC power cord Fuse (1.5A) Connector assembly 3P Connector assembly 5P Power transformer PB head Push switch Motor assembly Meter assembly (Main)	Part No. CM-22 RDG1010 REK1001 RKP1322 RKP1323 RTT1116 RPB1031 RSG1018 RXM1029 RXM1029		Q110, Q713, Q804, Q854, Q904, Q905, Q920, Q1005 Q409, Q410 Q406—Q408 Q113, Q114, Q301, Q302, Q404, Q405, Q761, Q806, Q808, Q856, Q858, Q922, Q1006, Q1007 Q711, Q712 Q801—Q803, Q807, Q851—Q853, Q857 Q111, Q112 D1013, D1015	2SD1302 2SD1858X 2SK373 GP10GL-5003
	Motor assembly (Main) Solenoid	RXM1030 RXP1010	Â	D702 D1003	MTZJ4.3B MTZJ5.1B
	Photo transistor R/P, E head	SPI33534FG RPB1030		D1012 D1006 D402, D801, D851	1B2Z1-LC2 1SR35-100AVL 1SS252
Main	Unit			D1001, D1002	1SS252
SEMI	CONDUCTORS		Δ	D101-D112, D115, D401, D403-D406, D501-D510, D802, D804, D805, D852,	1SS254
Mark	Symbol & Description	Part No.		D802, D804, D803, D832, D906-D908, D910-D912, D1009-D1011	
	IC501, IC1601 IC202 IC761	BA15218 BA15218N BA335	SWIT		
	IC801, IC851 IC101	BA6218 CXA1115BP	Mark	Symbol & Description	Part No.
			A	C1001 Bower owitch	DCA OCO

S1001 Power switch

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COILS • FILTERS

RESISTORS

Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
	F201, F202 Dolby filter L401 Radial inductor L402 Oscillator coil L301, L302 Coil (10mH) L101, L102 Coil (5.6mH)	ATF-210 LFA121K RTD1048 RTF1004 RTF1099		R931 R910, R925 R923 VR101-VR104, VR301, VR302 Semi-fixed	RA10T104J RA4T223J RA8T104J RCP1046
CAPA	CITORS			VR802	RCP1054
Mark	Symbol & Description	Part No.	Δ	VR403 R1001 R802, R852	RCP1061 RS1LF221J RS2LMF390J
	C127, C128 C107-C110 C717, C718, C762, C763, C1601, C1602	CCPUSL100J50 CEANL100M16 CEASR10M50		VR801, VR851 Semi-fixed (22k) R401, R411, R412, R430, R812, R862	
	C215, C216 C217, C218, C223, C224	CEASR22M50 CEASR33M50	ОТНЕ	Other resistors	RD 1/6 PM □□□J
	C505, C506, C764	CEASR47M50	UITE	:no	
	C307, C308 C201-C204, C207, C208, C245,	CEASR68M50	Mark	Symbol & Description	Part No.
	C246, C1018 C205, C206, C221, C251, C252,			JA701 Pin jack 4P JA902, JA903	RKB1001 RKN1004
	C409, C511, C512, C903, C904, C1016, C1022 C111, C112	CEAS101M10		Remote control jack JA901 Mini jack X901 Ceramic resonator	RKN1014 VSS1014
	C1603, C1604	CEAS101M16	Displ	ay Unit	
	C313, C314 C140 C305, C306	CEAS2R2M50 CEAS220M16 CEAS221M10	SEMI	CONDUCTORS	
	C1010, C1013, C1015, C1023,	CEAS221M16	Mark	Symbol & Description	Part No.
	C1024 C1007 C401, C408 C1605 C1011 C117, C118, C209, C210, C219, C220, C303, C304	CEAS332M16 CEAS331M16 CEAS332M25 CEAS4R7M50		Q1501 D1501-D1506, D1510, D1518, D1519, D1522, D1536, D1540, D1541 D1507-D1509, D1511-D1517, D1520, D1521, D1523-D1527 D1528-D1535	
	C131, C132, C247, C250, C260,	CEAS470M16	SWIT	CHES	
	C504, C902 C211-C214	CFTXA222J50	<u>Mark</u>	Symbol & Description	Part No.
	C119, C120, C404 C405-C407	CFTXA223J50 CFTXA332J50		S1501, S1503, S1504, S1509	RSG1034
	C113, C114	CFTXA822J50		Tact switch S1510, S1511 Slide switch	RSH1014
	C126, C715, C901, C910, C911, C1009, C1012, C1014, C1017, C1019, C1025, C1027, C1028	CKCYF103Z50	RESIS	STORS	
	C501, C502, C701, C720, C761, C802, C852, C1020, C1021,	CKCYF473Z50	Mark	Symbol & Description	Part No.
	C1026 C135-C138, C248, C249	CKPUYB101K50		All resistors	RD 1/6 PM 🗆 🗆 🗆 J
	C103, C104 C121, C122, C301, C302	CKPUYB102K50 CKPUYB221K50	Volu	me Unit	
	C123, C124	CKPUYB391K50	SEMI	CONDUCTOR	
	C101, C102	CKPUYB471K50	Mark	Symbol & Description	Part No.
	C105, C106 C133, C134, C801, C851 C403	CKPUYB561K50 CKPUYB681K50 CQPA682J100		IC2001	BA15218

CAP	ACITORS		Regu	ılator Unit		
Mark	Symbol & Description	Part No.	SEMI	CONDUCTOR		
	C2003, C2004, C2011, C2012	CEAS010M50	Mark	Symbol & Description	Part No.	
	C2005, C2006 C2017, C2020	CEAS100M50 CKCYF103Z50	Δ	IC1901	TA7812S	
	C2007, C2008 C2001, C2002	CKPUYB101K50 CKPUYB681K50	HX	Unit		
RESIS	STORS		SEMICONDUCTORS			
Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.	
	VR2001 Variable resistor (5kB) VR2002 Variable resistor (5kA) Other resistors	RCS1017 RCV1061 RD1/6 PMJ		IC601 Q603 Q601, Q602 D601, D602	UPC1297CA DTC124ES 2SA1309A 1SS254	
OTHE	ERS		COIL		100204	
Mark	Symbol & Description	Part No.				
	J2002 Head phone jack	RKN1002	<u>Mark</u>	Symbol & Description	Part No.	
JA2001, JA2002 Mic jack		RKN1003	L601, L602 Step-up coil		RTD1046	
ıran	sformer 1 Unit			ACITORS		
	is no supply part in this unit.		Mark	Symbol & Description	Part No.	
iran	sformer 2 Unit			C609, C610 C614	CCCSL101K500 CEASR10M50	
	is no supply part in this unit.			C615, C617 C616	CEAS100M50 CEAS4R7M50	
Cont	rol SW (1) Unit			C601, C602	CFTXA103J50	
SEMI	CONDUCTORS			C605, C606 C607, C608	CFTXA223J50 CGCYX473K25	
Mark	Symbol & Description	Part No.		C613 C603, C604	CKPUYB101K50 CKPUYB821K50	
	D1301-D1303, D1305, D1306	1SS254		C611, C612 (430P/500)	RCG1005	
SWIT	CHES		RESIS	STORS		
<u>Mark</u>	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.	
	S1301-S1303, S1305, S1306 Tact switch	RSG1033		VR601, VR602 Semi-fixed (22k) Other resistors	VRTB6HS223 RD1%PM□□□J	
Cont	rol SW (2) Unit					
SEMI	CONDUCTORS					
Mark	Symbol & Description	Part No.				
	D1401-D1408	1SS254				
SWIT	CHES					
Mark	Symbol & Description	Part No.				
	S1401-S1408 Tact switch	RSG1033				
Swit	ch Unit					

SWITCH

<u>Mark</u>

Symbol & Description

S1601 Slide switch

Part No.

R\$H1029

8. ADJUSTMENTS

8.1 MECHANICAL ADJUSTMENT

1. Tape Speed Adjustment and Check							
No.	Deck	Mode	Test tape	Adjusting points	Specifications/Ratings (playback frequency)	Remarks	
1		Normal speed PLAY		After playing back for 1 minute, ground TP16.			
2	1	Double speed PLAY		check	check 6000 Hz±600 Hz		
3		Nia		After checking, disconnect TP16 from ground.			
4		Normal speed PLAY	STD-301	Aft	After playing back for 1 minute, ground TP17.		
5		Double speed PLAY	(3 kHz)	VR802	Within ±10 Hz of step 2 (deck I) check value.		
6	"			After checking, disconnect TP17 from ground.			
7		Normal speed PLAY		VR801 3000 Hz±5 Hz			
8	1			VR851	Within ±5 Hz of step 7 (deck II) adjustment value.		

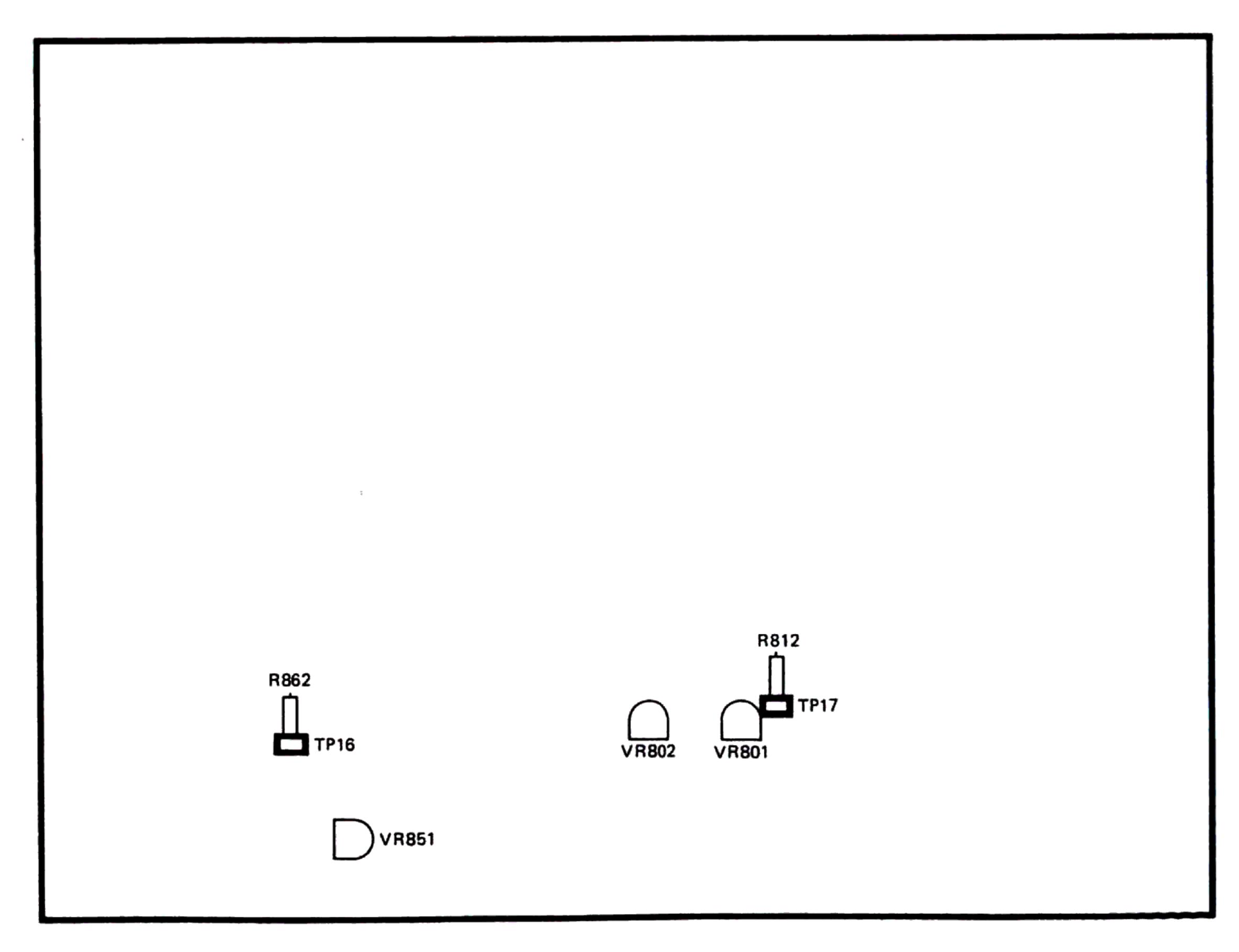


Fig. 8-1 Adjusting Points

8.2 ELECTRICAL ADJUSTMENTS

Adjustment Conditions

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

DOLBY NR : OFF
TAPE SELECTOR : NORM

Test Tapes

STD-331B : Playback adjustments

(See Fig. 8-2)

STD-630 : NORMAL blank tape

STD-620 : CrO₂ blank tape STD-610 : METAL blank tape

List of Adjustments

Playback sections

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

Recording sections

- 1. Bias oscillator adjustment.
- 2. Erase current adjustment.
- 3. Recording bias adjustment.
- 4. Recording level adjustment.
- 5. Level meter check.

NOTE: This unit has an automatic tape selection feature.

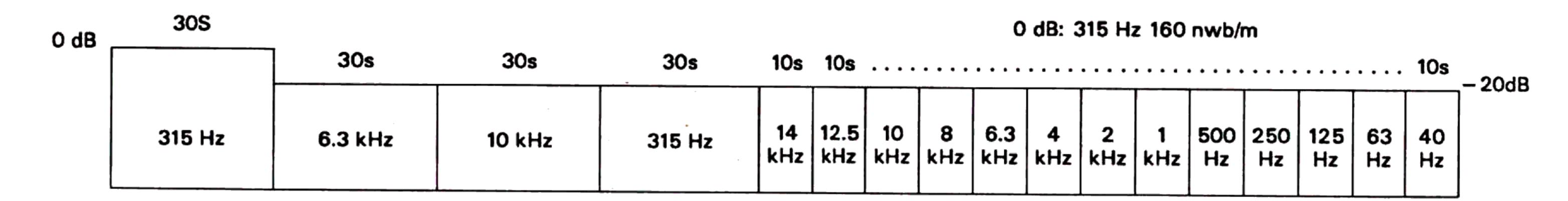


Fig. 8-2 Constants of the test tape STD-331B

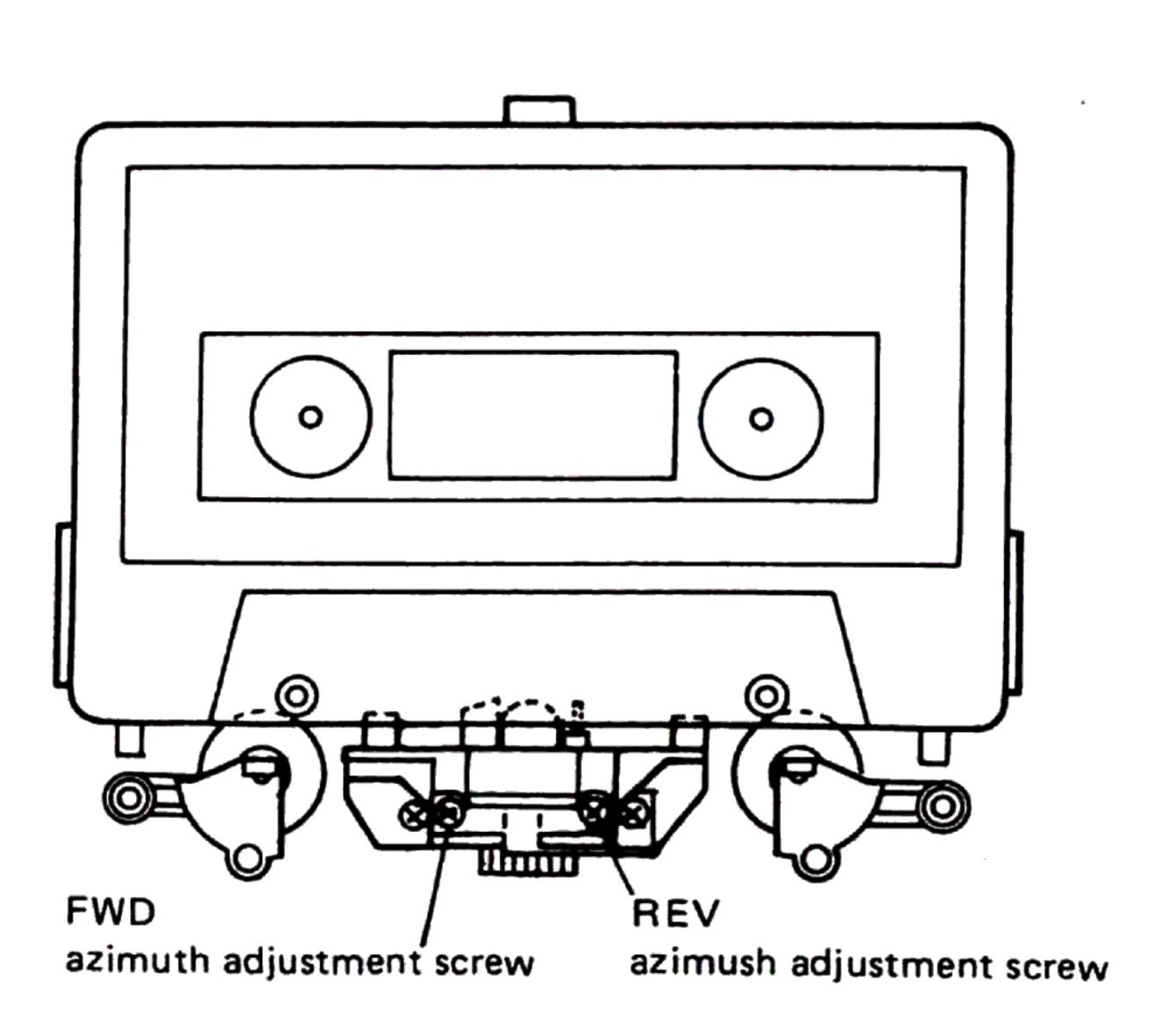


Fig. 8-3 Head azimuth adjustment

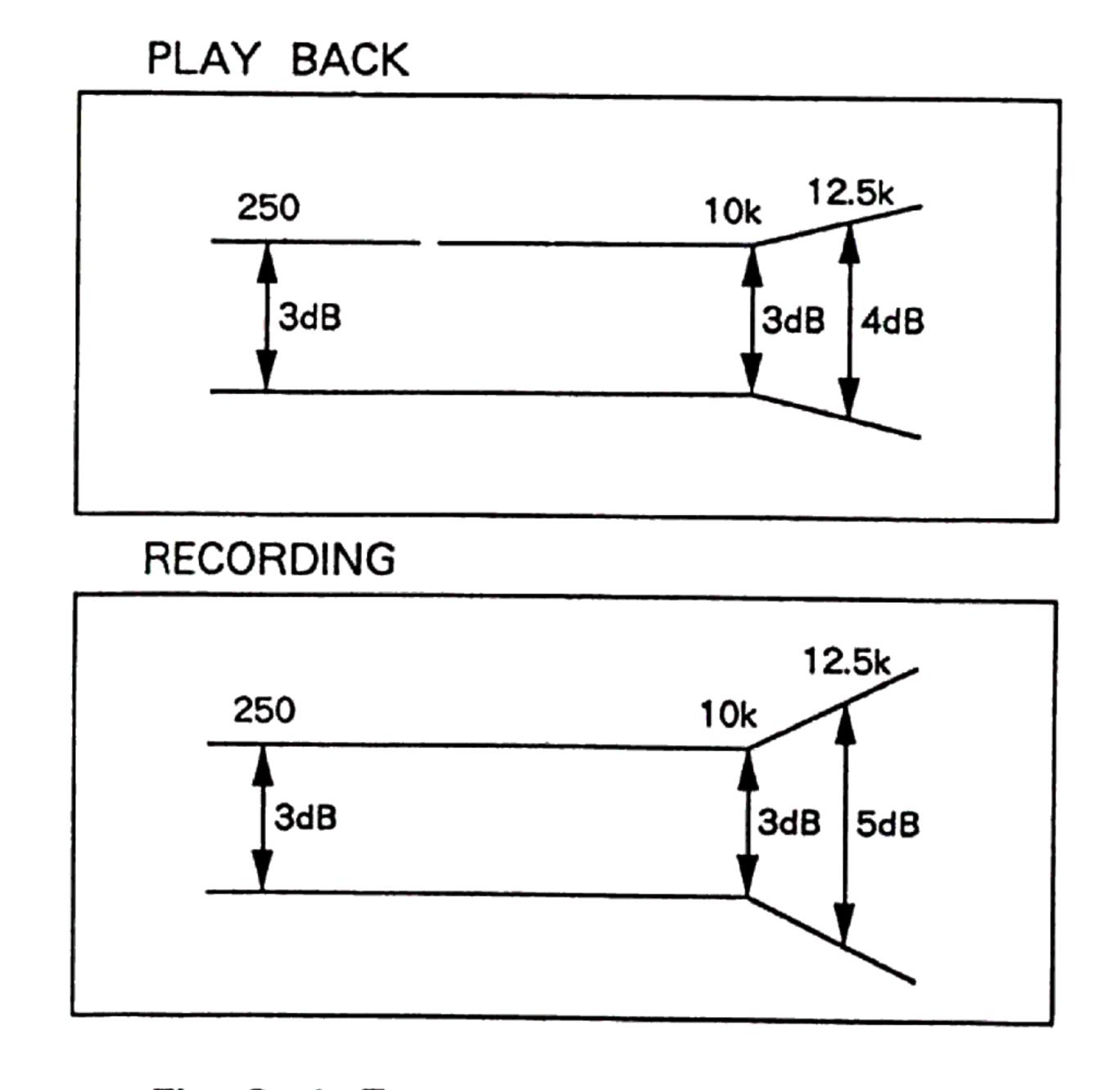


Fig. 8-4 Frequency response zone

PLAYBACK SECTION

1. Head Azimuth Adjustment

• Turn VR103, VR104 (Deck I) or VR101, VR102 (Deck II) to mechanical center positions.

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks		
1.	PLAY	Play the 10 kHz/-20 dB section of STD-331B test tape.	Head azimuth adjustment screw. (See Fig. 8-3)	LINE OUT	Maximum playback signal level.			
2.	STOP	Lock the screw with screw lock after completing adjustment.						

2. Playback level Adjustment

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

No.	Mode	Input signal & test tape	Adjustment location		Measuring location	Adjustment value	Remarks
1.	PLAY	Play the 315 Hz/O dB section of the STD-331B	Deck I	VR103 (Lch) VR104 (Rch)	TP. 1 (Lch) TP. 2 (Rch)	– 10.7 dBv	
		test tape.	Deck II	VR101 (Lch) VR102 (Rch)			

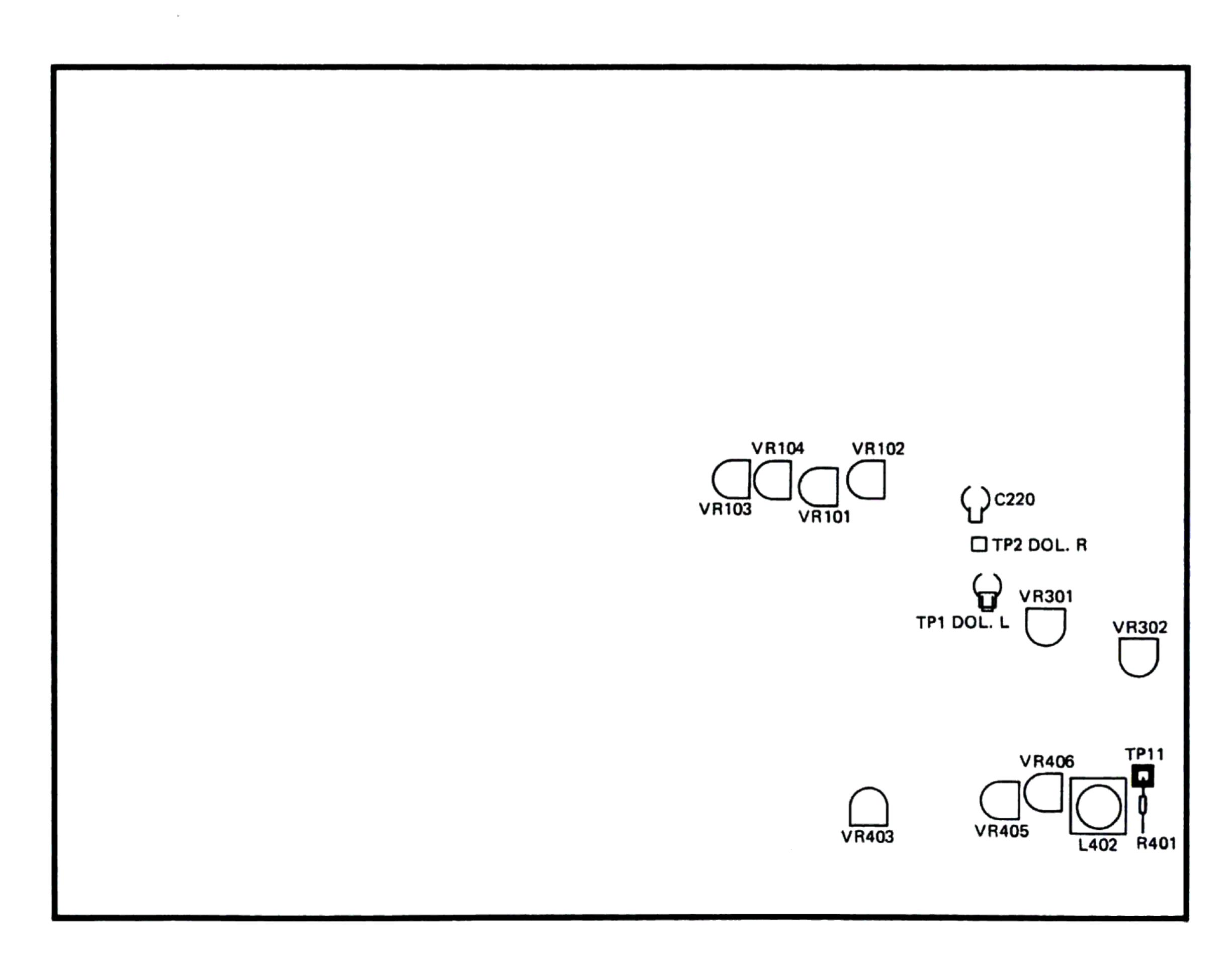


Fig. 8-5 Adjusting points

RECORDING SECTION

1. Bias Oscillator 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	L 402	TP. 11	105 kHz ± 0.3 kHz	

2. Erase Current 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	VR403	TP. 11	165 mV AC	

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	Adju	stment location	Measuring location	Adjustment value	Remarks
1.	STOP	Set the TAPE SELECTOR sv	vitch to the	NORM position.			
2.	REC	Record the 315 Hz and 6.3 kHz signals at	CT- W630R	VR601 (Lch) VR602 (Rch)	LINE OUT	Repeatedly record, playback and adjust so that the playback level of 6.3 kHz signal becomes +0.5 dB±0.5 dB when compared with the 315 Hz signal.	
		- 20 dBv input level and playback.	CT- W530R	VR405 (Lch) VR406 (Rch)			

4. Recording Level Adjustment

No.	Mode	Input signal & test tape	Adjus	stment location	Measuring location	Adjustment value	Remarks
1.	STOP	Set the TAPE SELECTOR sv	witch to the	NORM position.			•
2.	REC PAUSE	Apply a 315 Hz/O dBv signal to the line Input terminals, load the STD-630 test tape.	Rec Leve	control volume	TP. 1 (Lch) TP. 2 (Rch)	- 11.2 dBv	
3.	STOP	Set the DOLBY NR switch	to the ON p	osition. (DOLBY B)		
4.	REC/ PLAY	Record the above signal onto the STD-630 test tape, and playback.	Deck II	VR301 (Lch) VR302 (Rch)	TP. 1 (Lch) TP. 2 (Rch)	Repeatedly record, playback and adjust so that the playback signal level becomes - 11.2 dB.	
5.	STOP	Set the TAPE SELECTOR sv	witch to the	CrO2 position.			
6.	REC/ PLAY	Record the above signal onto the STD-620 test tape, and playback.	Check		TP. 1 (Lch) TP. 2 (Rch)	- 11.2 dBv ± 1.5 dB	
7.	STOP	Set the TAPE SELECTOR sv	witch to the	METAL position.			L
8.	REC/ PLAY	Record the above signal onto the STD-610 test tape, and playback.	Check		TP. 1 (Lch) TP. 2 (Rch)	- 11.2 dBv ± 1.5 dB	

5. Level Meter Check

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	PAUSE	Apply a 315 Hz/- 10 dBv (316 mV) signal to the Line Input terminals.	Rec Level control volume	TP. 1 (Lch) TP. 2 (Rch)	Check that the level meters "0 dB" light up within - 11.2 dBv ± 2 dB of the signal output level.	

8. RÉGLAGE

8.1 RÉGLAGES MECANIQUES

1. [Réglage	et vérification de la vit	tesse de defilen	nent de la ban	de			
No.	Platine	Mode	Bande test	Points de réglage	Spécifications/valeurs (fréquence de lecture)	Remarques		
1		Lecture à vitesse normale		Apr	Après une lecture pendant 1 minute, mettre TP16 à la terre.			
2		Lecture à vitesse double		Vérifier	6000 Hz±600 Hz			
3		Lecture à vitesse		Apr	és vérification, déconnecter TP16 de la terre.			
4		normale	STD-301	Apr	Aprés une lecture pendant 1 minute, mettre TP17 à la terre.			
5		Lecture à vitesse double	(3 kHz)	VR802	Dans la limite de ±10 Hz de la valeur de vérification de 1'étape 2 (platine I)			
6				Apr	és vérification, déconnecter TP17 de la terre.			
7		Lecture à vitesse		VR801	3000 Hz±5 Hz			
8	I	normale		VR851	VR851 Dans la limite de ±5 Hz de la valeur de réglage 1'étape 7 (platine II)			

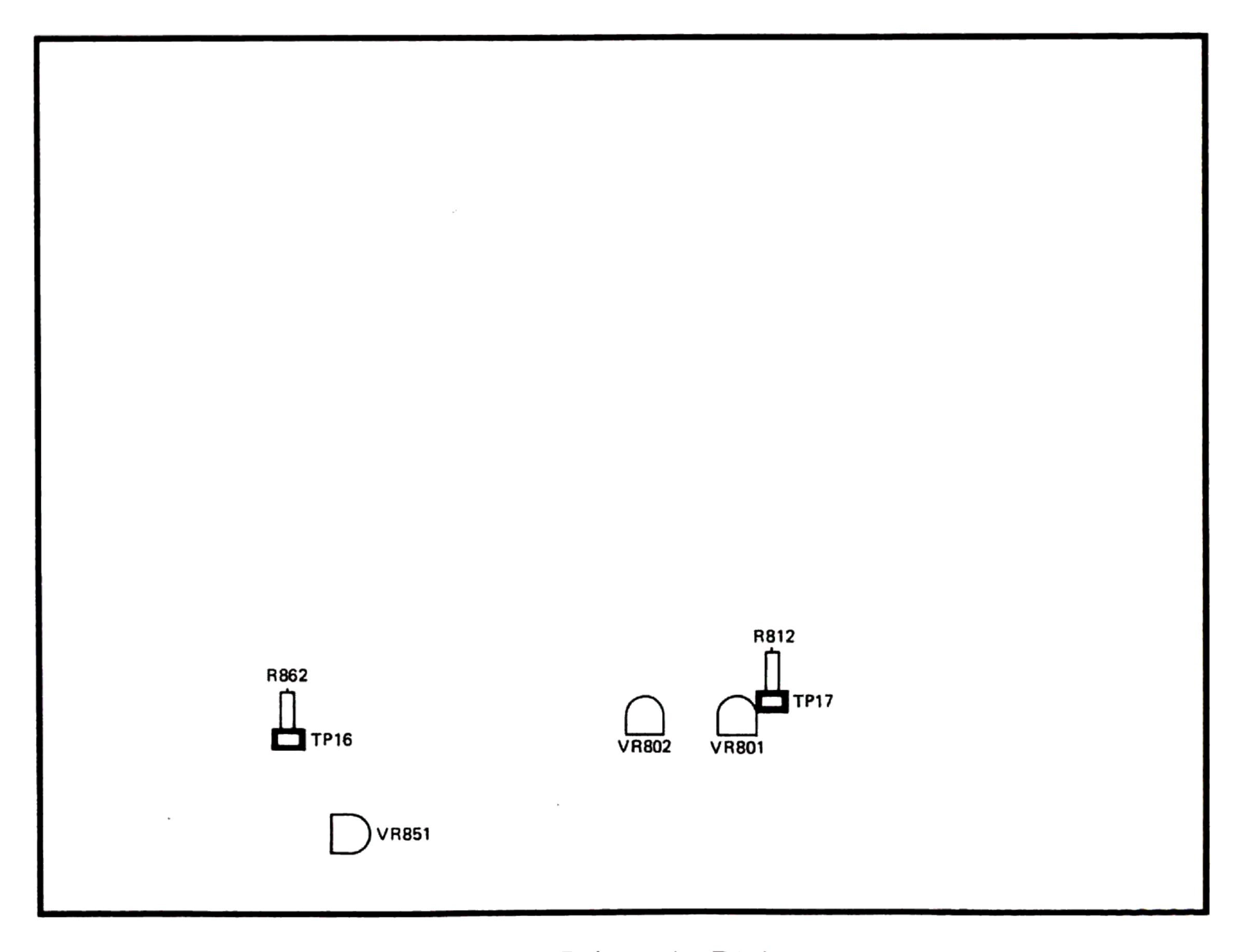


Fig. 8-1 Points de Réglage

8.2 REGLAGES ELECTRIQUES

Conditions de réglage

- 1. Les réglages mécaniques doivent tout d'abord être terminés.
- 2. Les têtes doivent être nettoyées et démagnétisées.
- 3. Mettre la platine sous tension et la laisser chauffer pendant au moins quelques minutes avant de commencer les réglages électriques.
- 4. Le signal de référence est de dBv=1 Vrms.
- 5. Connecter une résistance de charge de 50 k Ω (tolérance 47k à 52 k Ω) aux bornes de sortie (OUTPUT).
- 6. Sauf indication contraire, les commutateurs ci-dessous doivent être laissés sur les positions indiquées.

DOLBY NR : OFF Sélecteur de bande : NORM

(TAPE SELECTOR)

Bandes d'essai

STD-331B : Réglages de la lecture

(Voir fig. 8-2)

STD-630 : Bande vierge de type normal
 STD-620 : Bande vierge de type chrome
 STD-610 : Bande vierge de type métal

Liste des réglages

Sections de lecture

- 1. Réglage de l'azimut de la tête.
- 2. Réglage du niveau de lecture.

Sections d'enregistrement

- 1. Réglage de l'oscillateur de polarisation.
- 2. Réglage du courant d'effacement.
- 3. Réglage de la polarisation d'enregistrement.
- 4. Réglage du niveau d'enregistrement.
- 5. Vérification de l'indicateur de niveau.

REMARQUE:

Cette unité est dotée d'une sélection automatique de bande.

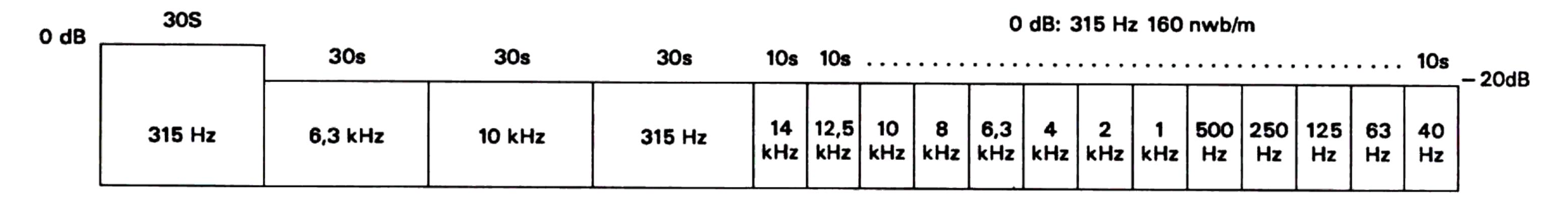


Fig. 8-2 Constantes de la bande d'essai STD-331B

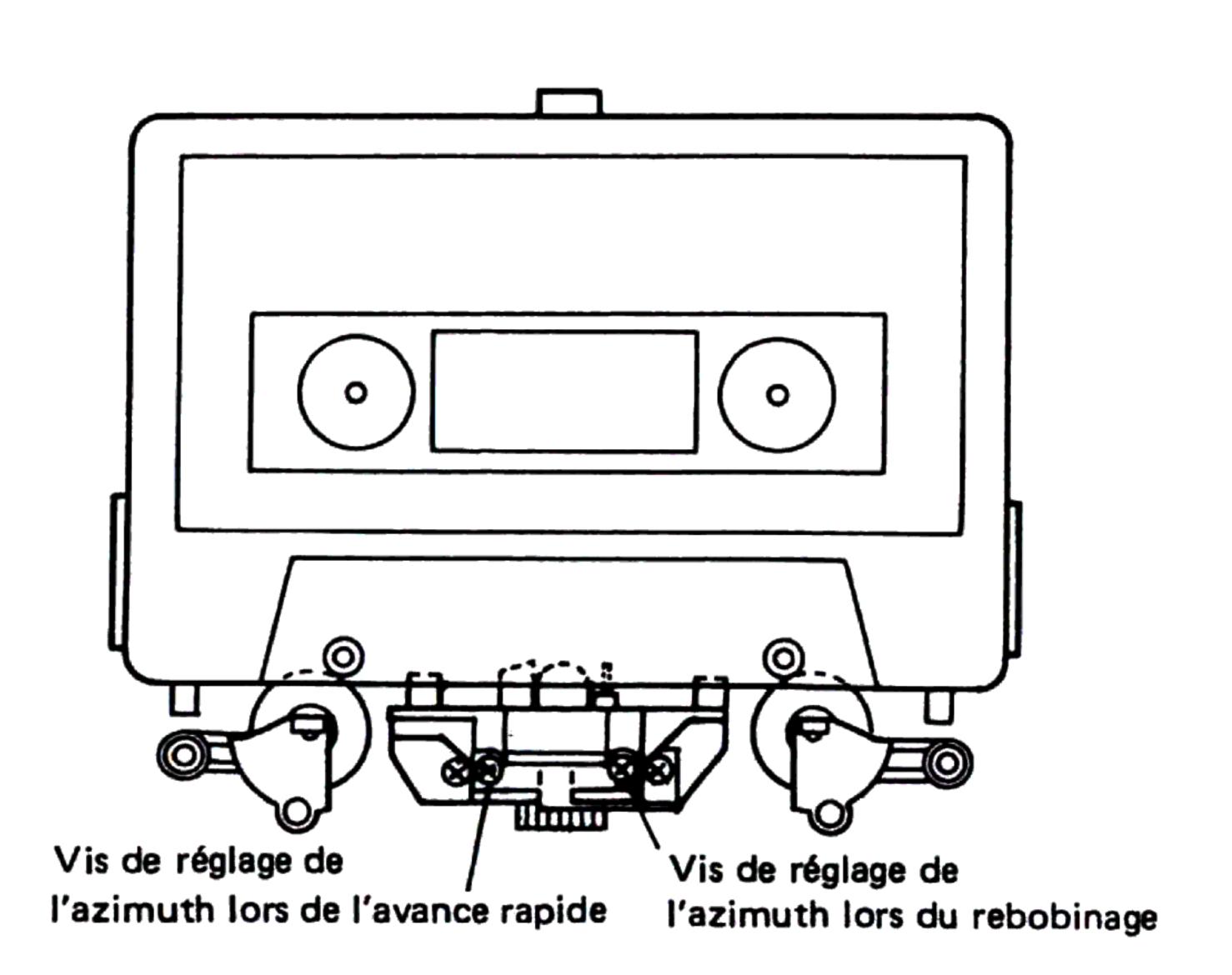


Fig. 8-3 Réglage de l'azimut de la tête

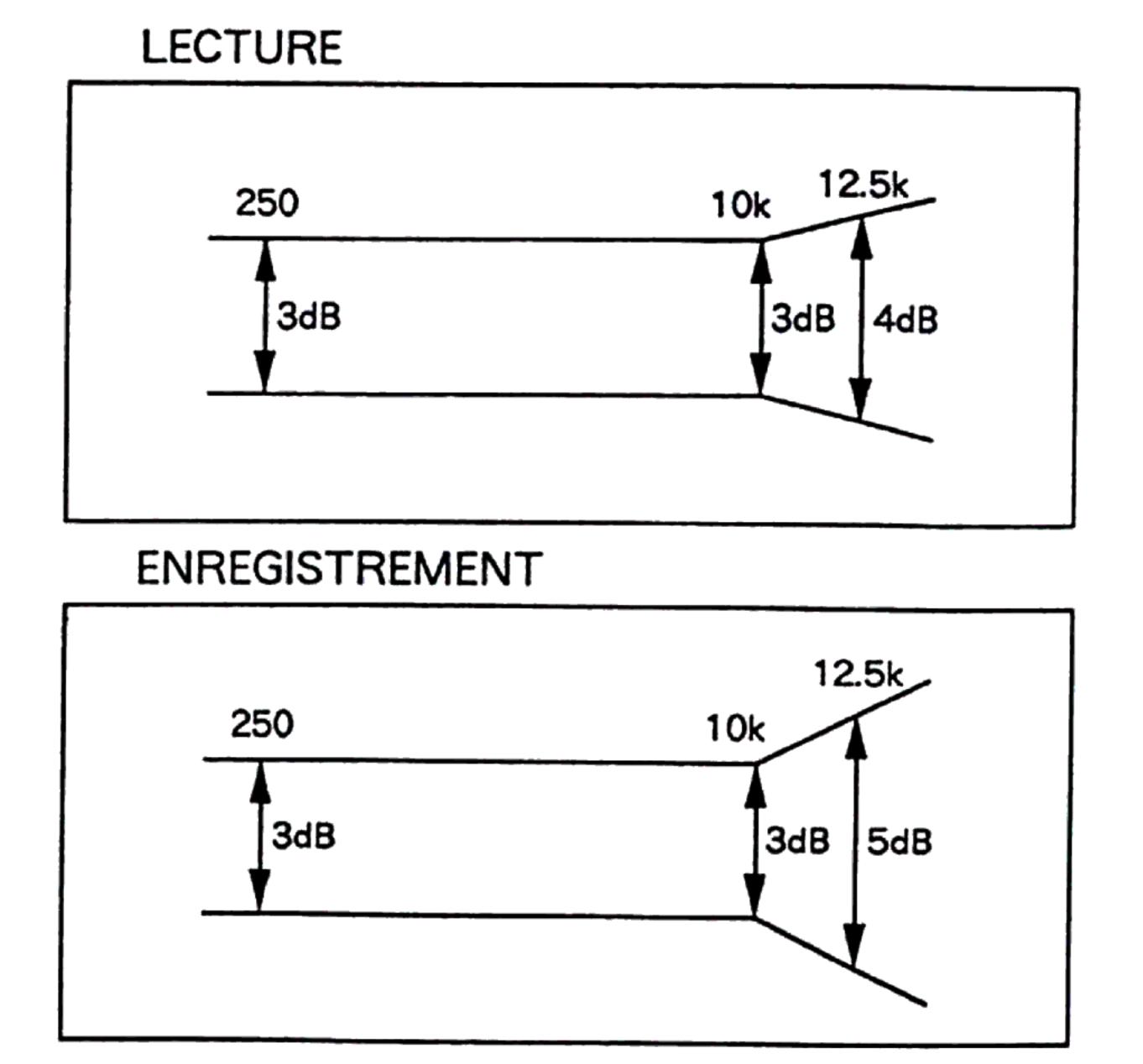


Fig. 8-4 Tolérance de la zone de réponse en fréquence de lecture

SECTION DE LECTURE

. Réglage de l'azimut de la tête

• Tourner VR103, VR104 (Platine I) ou VR101, VR102 (Platine II) sur leur position centrale mécanique.

No.	Mode	Signal d'entrée et bande d'essai	Points de réglage	Points de mesure	Valeur de réglage	Remarques				
1.	PLAY	Reproduire la section 10 kHz/- 20 dB de la bande d'essai STD-331B.	Vis de réglage de l'azimut de la tête. (Voir fig. 8-3)	Sortie de ligne (LINE OUT)	Niveau du signal de reproduction maximum.					
2.	STOP	Verrouiller la vis avec le ve	/errouiller la vis avec le verrouillage de vis après avoir terminé le réglage.							

2. Réglage du niveau de lecture

• Ce réglage détermine le niveau DOLBY NR et il doit être effectué très soigneusement.

No.	Mode	Signal d'entrée et bande d'essai	Points de réglage		Points de mesure	Valeur de réglage	Remarques
1.	PLAY	Reproduire la section 315 Hz/O dB de la bande	Platine I	VR103 (can. G) VR104 (can. D)	TP. 1 (can. G) TP. 2 (can. D)	- 10,7 dBv	
		d'essai STD-331B.	Platine II	VR101 (can. G) VR102 (can. D)			

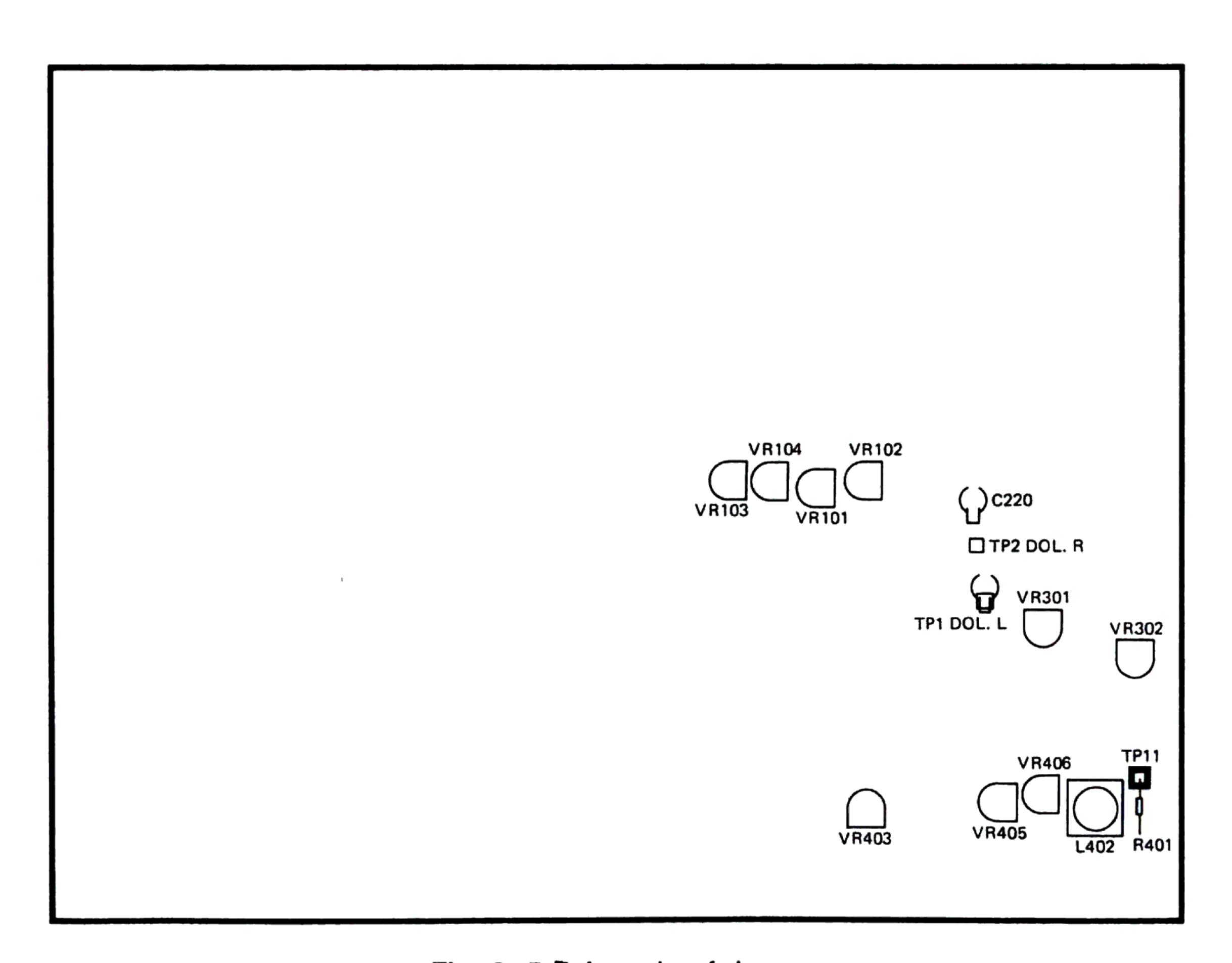


Fig. 8-5 Points de réglage

SECTION D'ENREGISTREMENT

1. Réglage de l'oscillateur de polarisation

No.	Mode	Signal d'entrée et bande d'essai	Point	s de réglage	Points de mesure	Valeur de réglage	Remarques
1.	REC	Charger la bande d'essai STD-610 et n'introduire aucun signal.	Platine II	L 402	TP. 11	105 kHz ±0,3 kHz	

2. Réglage du courant d'effacement

No.	Mode	Signal d'entrée et bande d'essai	Point	s de réglage	Points de mesure	Valeur de réglage	Remarques
1.	REC	Charger la bande d'essai STD-610 et n'introduire aucun signal.	Platine II	VR 403	TP. 11	165 mV AC	

3. Réglage de la polarisation d'enregistrement

• Après le réglage, des précautions doivent être prises pour éviter une sous-polarisation en vérifiant le taux de distorsion.

No.	Mode	Signal d'entrée et bande d'essai	Poin	ts de réglage	Points de mesure	Valeur de réglage	Remarques
1.	STOP	Régler le sélecteur de band	de (TAPE SEI	LECTOR) sur la posi	tion NORM.		
2.	REC	Enregistrer les signaux 315 Hz et 6,3 kHz à un niveau d'entrée de - 20 dBv et les reproduire.	CT- W630R CT- W530R	VR601 (can. G) VR602 (can. D) VR405 (can. G) VR406 (can. D)	Sortie de ligne (LINE OUT)	Enregistrer, reproduire et régler de manière répétée de sorte que le niveau de lecture du signal 6,3 kHz devienne +0,5 dB ±0,5 dB lorsqu'il est comparé avec le signal 315 Hz.	

4. Réglage du niveau d'enregistrement

No.	Mode	Signal d'entrée et bande d'essai	Point	s de réglage	Points de mesure	Valeur de réglage	Remarques	
1.	STOP	Régler le sélecteur de band	e (TAPE SEL	ECTOR) sur la posi	ion NORM.			
2.	REC	Appliquer un signal de 315 Hz/O dBv aux bornes d'entrée de ligne, charger la bande d'essai STD-630.	Volume de la commande de niveau d'enregistrement.		TP. 1 (can. G) TP. 2 (can. D)	- 11,2 dBv		
3.	STOP	Régler le commutateur DOI	gler le commutateur DOLBY NR sur la position ON. (DOLBY B)					
4.	REC/ PLAY	Enregistrer le signal cidessus sur la bande d'essai STD-630 et le reproduire.	Platine II	VR301 (can. G) VR302 (can. D)	TP. 1 (can. G) TP. 2 (can. D)	Enregistrer, reproduire et régler de manière répétée de sorte que le niveau du signal devienne — 11,2 dB.		
5.	STOP	Régier le sélecteur de band	e (TAPE SEL	ECTOR) sur la posi	tion CrO2.			
6.	REC/ PLAY	Enregistrer le signal cidessus sur la bande d'essai STD-620 et le reproduire.	Vérifier		TP. 1 (can. G) TP. 2 (can. D)	- 11,2 dBv ± 1,5 dB		
7.	STOP	Régler le sélecteur de band	e (TAPE SEL	ECTOR) sur la posit	tion METAL.			
8.	REC/ PLAY	Enregistrer le signal cidessus sur la bande d'essai STD-610 et le reproduire.	Vérifier		TP. 1 (can. G) TP. 2 (can. D)	- 11,2 dBv ± 1,5 dB		

5. Vérification de l'indicateur de niveau

No.	Mode	Signal d'entrée et bande d'essai	Points de réglage	Points de mesure	Valeur de réglage	Remarques
1.	PAUSE	Appliquer un signal de 315 Hz/- 10 dBv (316 mV) aux bornes d'entrée de ligne.	Volume de la commande de niveau d'enregistrement	TP. 1 (can. G) TP. 2 (can. D)	Vérifier que les indicateurs de niveau "O dB" s'allument dans la limite de - 11,2 dBv ± 2 dB du niveau de sortie du signal.	

8. AJUSTE

8.1 AJUSTE MECANICO

1.	Ajuste	y verificación de la velo	ocidad de cinta				
No.	Platina	Modo	Cinta de prueba	Puntos de ajuste	Especificaciones/valores nominales (frecuencia de reproducción)	Comentarios	
1		PLAY (velocidad normal)		Des	Después de reproducir por 1 minuto, conectar TP16 a tierra.		
2		PLAY (velocidad doble)		Verificar	6000 Hz±600 Hz		
3		PLAY		Des	Después de verificar, desconectar TP16 de tierra.		
4		(velocidad normal)	STD-301	Des	Después de reproducir por 1 minuto, conectar TP17 a tierra.		
5		PLAY (velocidad doble)	(3 kHz)	VR802	Dentro de un margen de ±10 Hz del valor de verificación del paso 2 (platina I).		
6				Des	pués de verificar, desconectar TP17 de tierra.		
7		PLAY (velocided normal)		VR801 3000 Hz±5 Hz			
8	1	(velocidad normal)		VR851	VR851 Dentro de un margen de ±5 Hz del valor de verificación del paso 7 (platina II).		

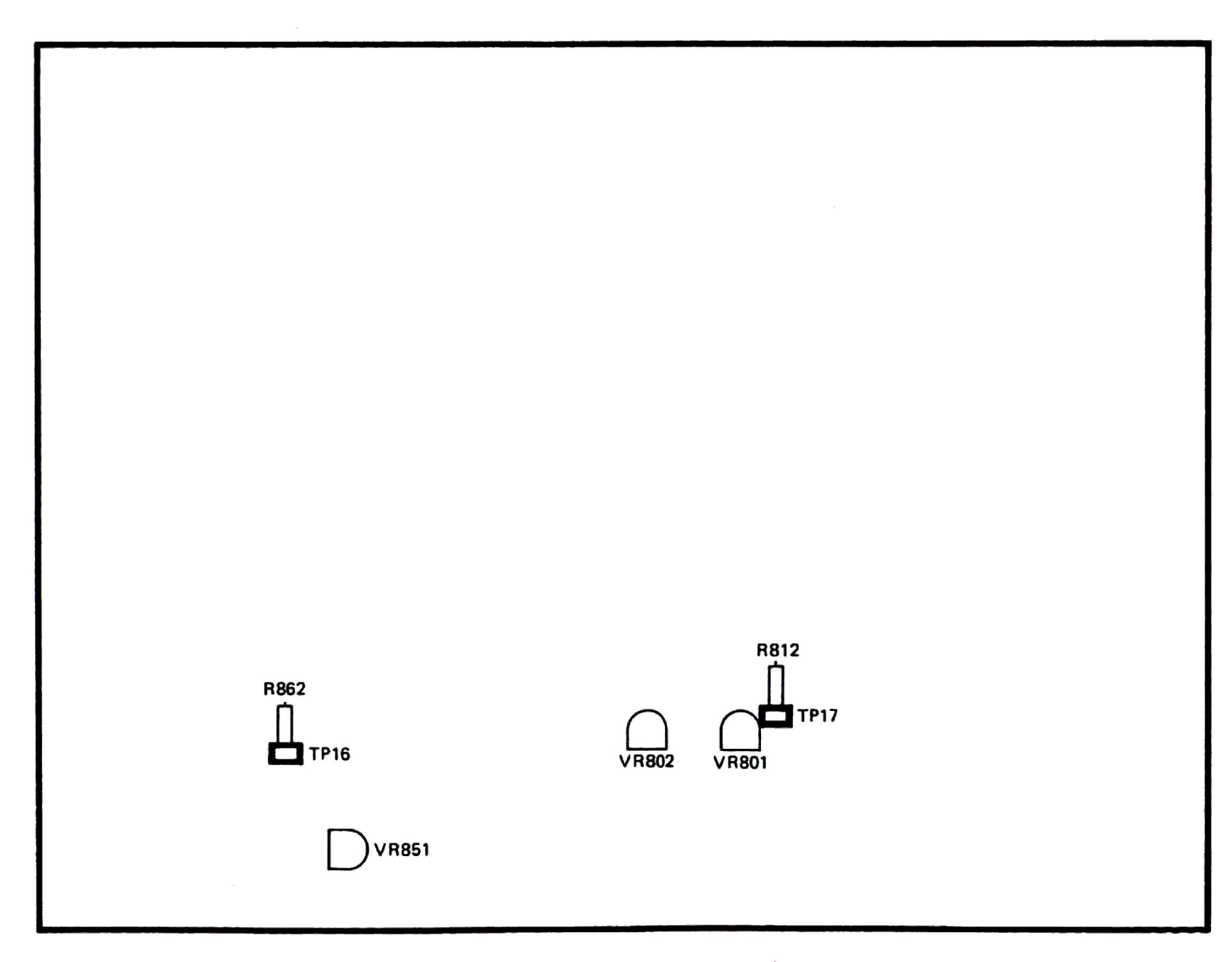


Figura 8-1 Puntos de Ajuste

8.2 AJUSTES ELÉCTRICOS

Condiciones de ajuste

- 1. Los ajustes mecánicos deben haberse completado primero.
- 2. La cabeza debe estar limpia y desmagnetizada.
- 3. Encienda la alimentación para permitir que la platina se caliente durante unos pocos minutos por lo menos antes de realizar cualquier ajuste eléctrico.
- 4. La señal de referencia es de 0 dBv=1 Vrms.
- 5. Conecte una resistencia de 50 k Ω (o entre 47k y 52 k Ω) en los terminales OUTPUT.
- 6. A menos que se especifique lo contrario, los conmutadores indicados más abajo deben dejarse en las posiciones indicadas.

DOLBY NR : OFF
TAPE SELECTOR : NORM

Cintas de prueba

STD-331B : Ajustes de reproducción

(Consulte la figura 8-2)

STD-630 : Cinta virgen NORMAL STD-620 : Cinta virgen de CrO₂ STD-610 : Cinta virgen de METAL

Lista de ajustes

Secciones de reproducción

- 1. Ajuste de azimut de la cabeza
- 2. Ajuste del nivel de reproducción

Secciones de grabación

- 1. Ajuste del oscillador de polarización
- 2. Ajuste de la corriente de borrado
- 3. Ajuste de la polarización de grabación
- 4. Ajuste del nivel de grabación
- 5. Verificación del medidor de nivel

NOTA:

Esta unidad posee una función de selección automática de cinta.

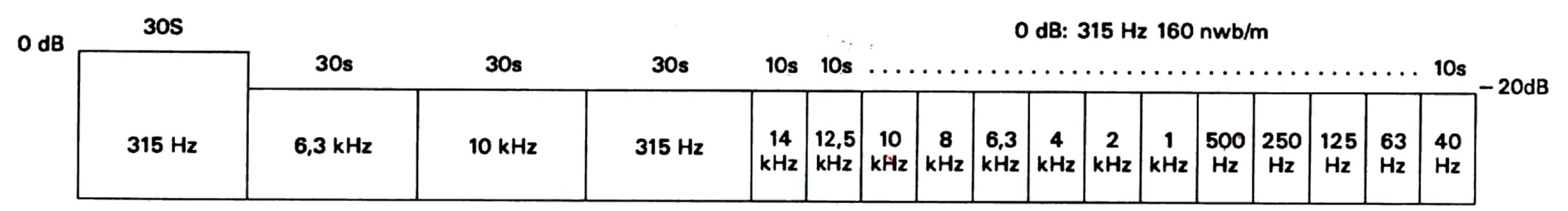


Figura 8-2 Constantes de la cinta de prueba STD-331B

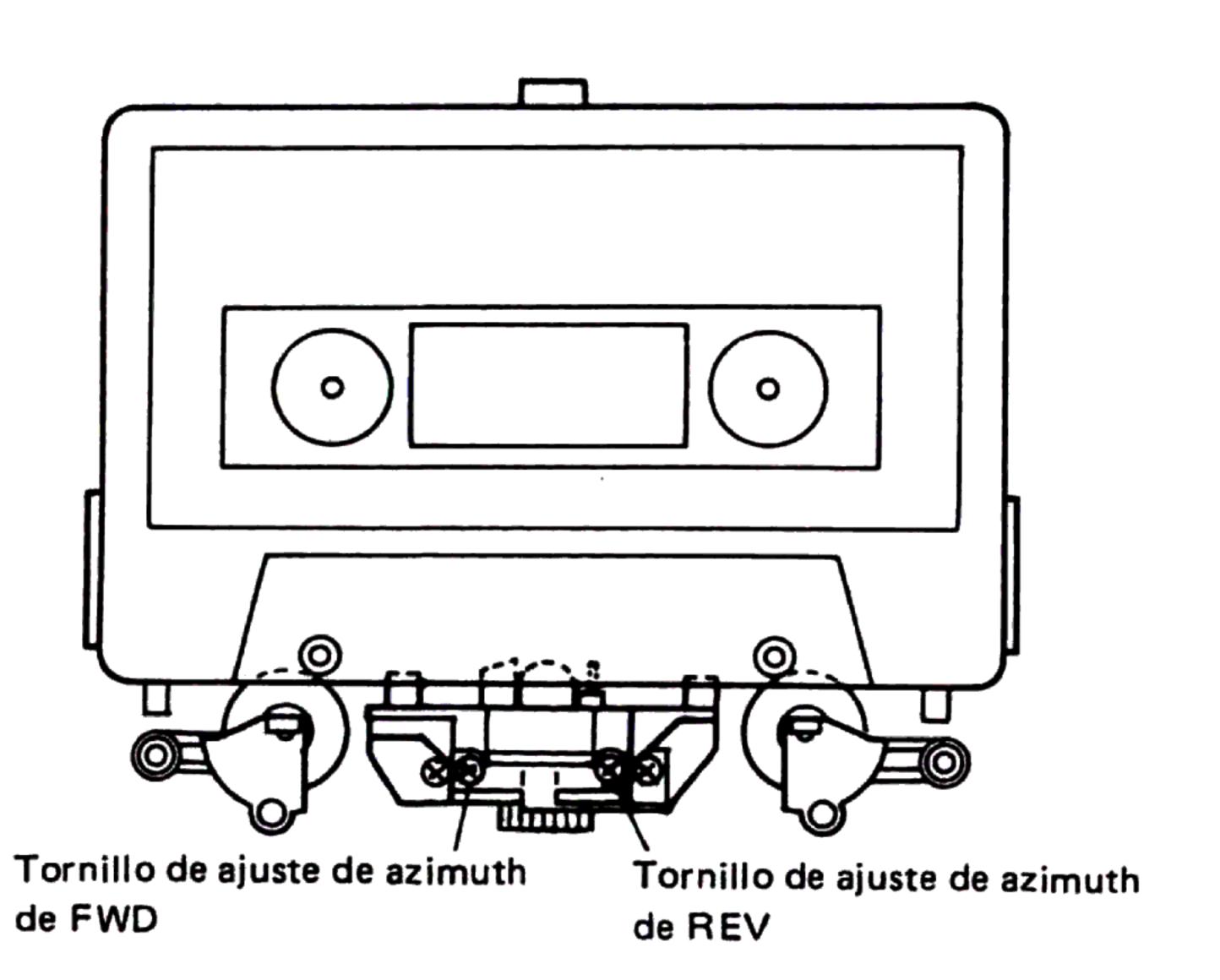


Figura 8-3 Ajuste de azimut de la cabeza

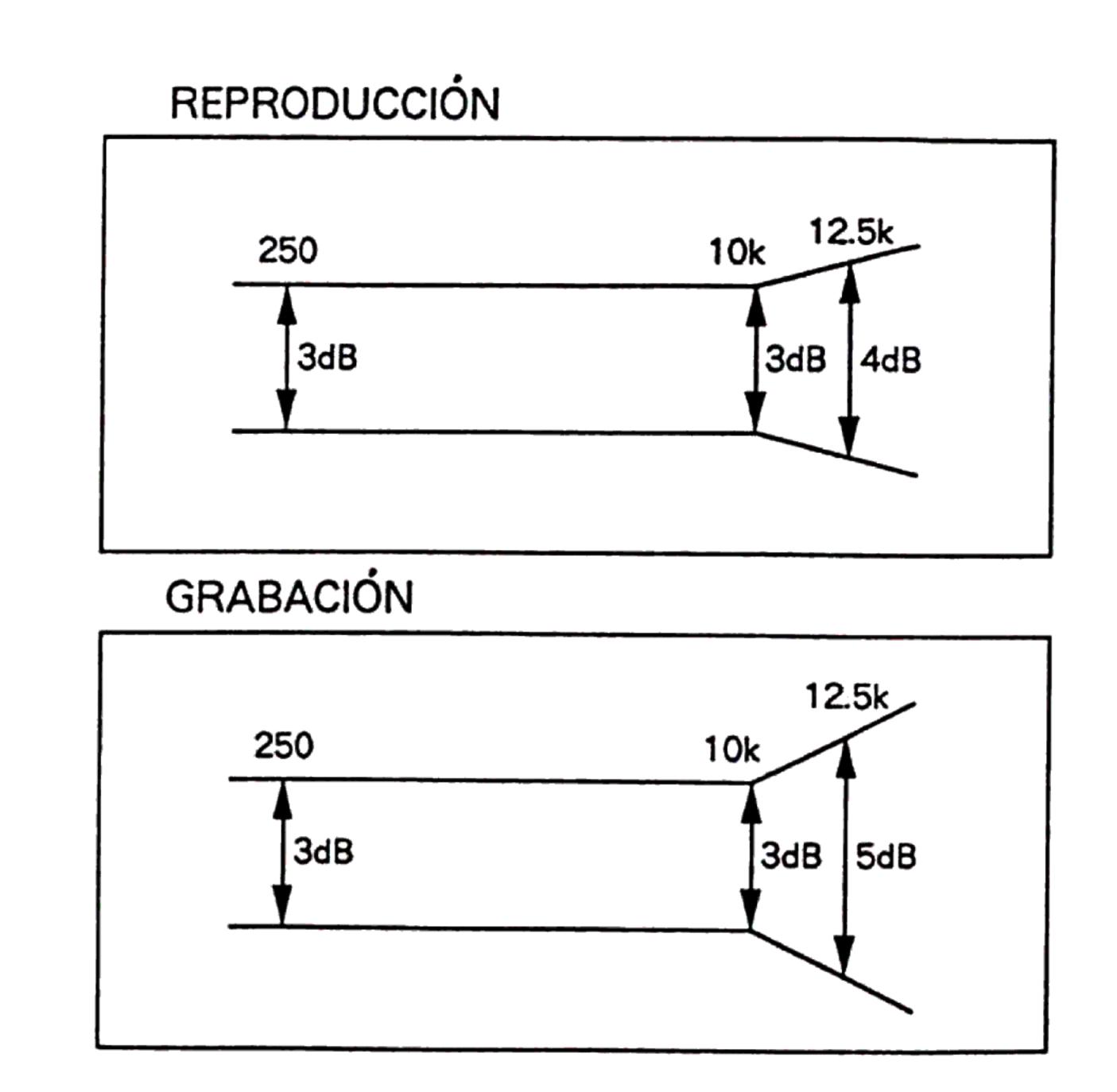


Figura 8-4 Zona permisible de respuesta de frecuencia de reproducción

SECCIÓN DE REPRODUCCIÓN

1. Ajuste del azimut de la cabeza

• Poner VR103, VR104 (platina I) o VR101, VR102 (platina II) en las posiciones del centro mecánico.

N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste	Punto de medición	Valor de ajuste	Comentarios		
1.	PLAY	Reproduzca la sección de 10 kHz/- 20 dB de la cinta de prueba STD-331B.	Tornillo de ajuste del azimut de la cabeza. (Vea la figura 8-3)	LINE OUT	Nivel máximo de la señal de reproducción.			
2.	STOP	Bloquee el tornillo con su cierre una vez finalizado el ajuste.						

2. Ajuste del nivel de reproducción

• Este ajuste determina el nivel DOLBY NR y debe realizarse con mucho cuidado.

N.º	Modo	Señal de entrada y cinta de prueba	Pun	to de ajuste	Punto de medición	Valor de ajuste	Comentarios
1.	PLAY	Produzca la parte de 315 Hz/O dB de la cinta	Platina I	VR103 (Lch) VR104 (Rch)	TP. 1 (Lch) TP. 2 (Rch)	- 10,7 dBv	
		de prueba STD-331B.	Platina II	VR101 (Lch) VR102 (Rch)			

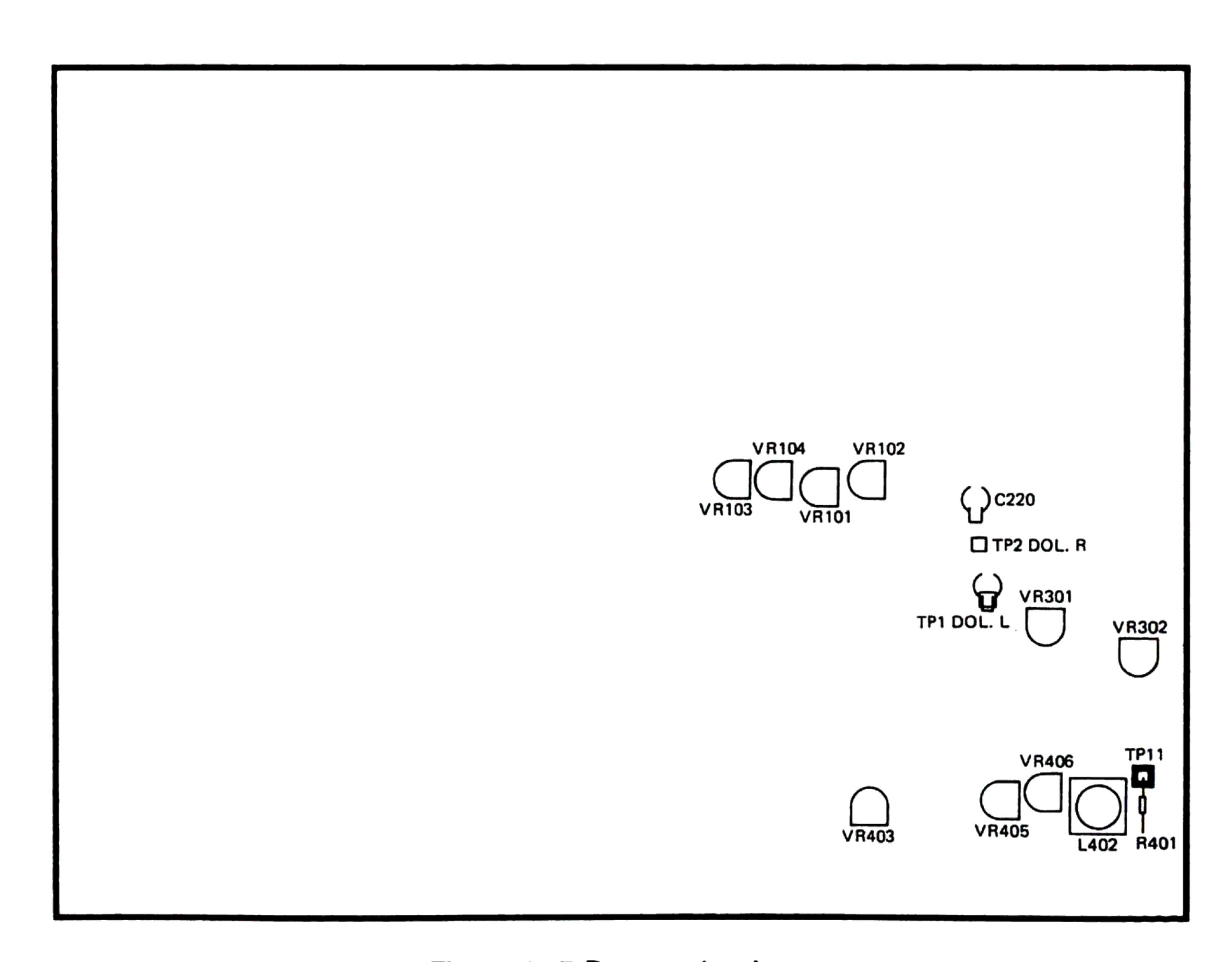


Figura 8-5 Puntos de ajuste

SECCIÓN DE GRABACIÓN

1. Ajuste del oscilador de polarización

N.º	Modo	Señal de entrada y cinta de prueba	Pun	to de ajuste	Punto de medición	Valor de ajuste	Comentarios
1.	REC	Introduzca la cinta de prueba STD-610 sin señal de entrada.	Platina II	L 402	TP. 11	105 kHz ±0,3 kHz	

2. Ajuste de la corriente de borrado

N.º	Modo	Señal de entrada y cinta de prueba	Pun	to de ajuste	Punto de medición	Valor de ajuste	Comentarios
1.	REC	Introduzca la cinta de prueba STD-610 sin señal de entrada.	Platina II	VR 403	TP. 11	165 mV AC	

3. Ajuste de polarización de grabación

• Una vez finalizado el ajuste, compruebe el porcentaje de distorsión para no obtener subpolarización.

N.°	Modo	Señal de entrada y cinta de prueba	Punto de ajuste		Punto de medición	Valor de ajuste	Comentarios	
1.	STOP	Ponga el conmutador TAPE	tador TAPE SELECTOR en la posición NORM.					
2.	2. REC	Grabe la señal de 315 Hz y 6,3 kHz a un nivel de entrada de - 20 dBv y reprodúzcala.	CT- W630R	VR601 (Lch) VR602 (Rch)	LINE OUT	Grabe, reproduzca y ajuste repetidamente para que el nivel de la		
			W530R	VR405 (Lch) VR406 (Rch)		señal de reproducción de 6,3 kHz sea de + 0,5 dB ± 0,5 dB cuando se compare con la señal de 315 Hz.		

4. Ajuste del nivel de grabación

N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste	Punto de medición	Valor de ajuste	Comentarios		
1.	STOP	Ponga el conmutador TAPE	SELECTOR en la posición NO	DRM.	M.			
2.	PAUSE	Aplique una señal de 315 Hz/O dBv a los terminales de entrada de línea e introduzca la cinta de prueba STD-630.	Control de nivel de grabación.	TP. 1 (Lch) TP. 2 (Rch)	– 11,2 dBv			
3.	STOP	Ponga el conmutador DOLE	nga el conmutador DOLBY NR en la posición ON. (DOLBY B)					
4.	REC/ PLAY	Grabe la señal de arriba en la cinta de prueba STD-630 y reprodúzcala.	Platina II VR301 (Lch) VR302 (Rch)	TP. 1 (Lch) TP. 2 (Rch)	Grabe, reproduzca y ajuste repetidamente para que el nivel de la señal de reproducción sea de - 11,2 dB.			
5.	STOP	Ponga el conmutador TAPE	SELECTOR en la posición Cr	O2.				
6.	REC/ PLAY	Grabe la señal de arriba en la cinta de prueba STD-620 y reprodúzcala.	Verifique	TP. 1 (Lch) TP. 2 (Rch)	- 11,2 dBv ± 1,5 dB			
7.	STOP	Ponga el conmutador TAPE	SELECTOR en la posición ME	ETAL.				
8.	REC/ PLAY	Grabe la señal de arriba en la cinta de prueba STD-610 y reprodúzcala.	Verifique	TP. 1 (Lch) TP. 2 (Rch)	- 11,2 dBv ± 1,5 dB			

5. Verificación del medidor de nivel

N.º	Modo	Señal de entrada y cinta de prueba	Punto de ajuste	Punto de medición	Valor de ajuste	Comentarios
1.	REC	Aplique una señal de 315 Hz/- 10 dBv (316 mV) a los terminales de entrada de línea.	Control de nivel de grabación	TP. 1 (Lch) TP. 2 (Rch)	Verifique si se encienden los medidores de nivel "O dB" cuando el nivel de salida de la señal sea – 11,2 dBv ±2 dB.	

9. FOR CT-W630R/HEM, HB, HPW AND SD TYPES

NOTES:

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

The CT-W630R/HEM, HB, HPW and SD types are the same as the CT-W630R/KUC type with the exception of the following sections.

	Symbol			Part No.			
Mark	l o.	CT-W630R/ KUC type	CT-W630R/ HEM type	CT-W630R/ HB type	CT-W630R/ HPW type	CT-W630R/ SD type	Remarks
	Main unit	Non supply	Non supply	Non supply	Non supply	Non supply	
	Display unit	Non supply	Non supply	Non supply	Non supply	Non supply	
	Transformer 1 unit	Non supply	Non supply	Non supply	Non supply	Non supply	
Δ	Strain relief	CM-22	CM-22B	CM-22B	CM-22B	CM-22B	
Δ	AC Power cord	RDG1010	PDG1003	PDG1004	PDG1006	PDG1013	
Δ	FU1801, FU1802 Fuse (1.5A/125V)	REK1001	••••	••••	••••		
Δ	FU1801, FU1802 Fuse (T1.6A/250V)	••••	REK – 102	REK-102	REK - 102	REK-102	
Δ	Power transformer (120V)	RTT1116		••••	••••	••••	
Δ	Power transformer (220/240V)	••••	RTT1123	RTT1124	RTT1124	••••	
Δ	Power transformer (110/120-127/220/ 240V)				• • • •	RTT1125	
	Voltage selector switch Front panel assembly Connection cord (Mini) Packing case Operating instructions (French, German, Italian, Dutch, Swedish, Spanish, Portuguese)	RXX1259 PDE-319 RHG1164	RXX1261 RHG1173 RRD1068	RXX1261 RHG1167	RXX1259 PDE-319 RHG1167	PSB1002 RXX1259 PDE-319 RHG1167	

MAIN UNIT

The main units of CT-W630R/HEM and HB types are the same as the main unit of CT-W630R/KUC, HPW and SD types with the exception of the following sections.

Mark		Part		
	Symbol & Description	CT-W630R/KUC, HPW and SD types	CT-W630R/ HEM and HB types	Remarks
	D910-D912	1SS254		
	C910	CKCYF103Z50	• • • •	
	JA902, JA903 Remote control jack	RKN1004	• • • • •	

DISPLAY UNIT

The display units of CT-W630R/HEM and HB types are the same as the display unit of CT-W630R/KUC, HPW and SD types with the exception of the following sections.

		Part		
Mark	Symbol & Description	CT-W630R/KUC, HPW and SD types	CT-W630R/ HEM and HB types	Remarks
	D1507-D1509, D1511-D1517, D1520, D1521, D1523-D1527	SEL4914D-X	SEL4414G	

TRANSFORMER 1 UNIT

The transformer 1 units of CT-W630R/SD type are the same as that of CT-W630R/KUC, HPW, HEM and HB types for the service supply parts.

10. FOR CT-W530R/KUC, KUCXJ, HEM, HEMXJ, HPW, SD AND CT-W530R-S/HEWM TYPES

NOTES:

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

The CT-W530R/KUC, KUCXJ, HEM, HEMXJ, HPW, SD and CT-W530R-S/HEWM types are the same as the CT-W630R/KUC type with the exception of the following sections.

Symbol Part No.									
Mark	& Description	CT-W630R/ KUC type	CT-W530R/ KUC type	CT-W530R/ KUCXJ type	CT-W530R/ HEM type	CT-W530R/ HEMXJ type	CT-W530R/ HPW type	CT-W530R/ SD type	CT-W530R-S /HEWM type
	Main unit Display unit Volume unit Transformer 1 unit Transformer 2 unit	Non supply Non supply Non supply	Non supply Non supply Non supply Non supply	Non supply Non supply Non supply	Non supply Non supply Non supply	Non supply Non supply Non supply	Non supply Non supply Non supply	Non supply Non supply Non supply	Non supply
		Non supply	Non supply	Non supply	Non supply	Non supply	Non supply	Non supply	
	Strain relief AC Power cord FU1801, FU1802 Fuse (1.5A/125V) FU1801, FU1802	CM-22 RDG1010 REK1001	CM - 22 RDG1010 REK1001	CM-22 RDG1010 REK1001	PDG1003	PDG1003	CM-22B RDG1006 	PDG1013	PDG1003
Δ	Fuse (T1.6A/250V) Power transformer	RTT1116	RTT1116	RTT1116	RTT1123	RTT1123	RTT1124	RTT1125	RTT1123
	Voltage selector switch	••••	••••	••••		••••		PSB1002	
	Stabilizer panel Door lens Meter panel Meter lens	RAH1605 RAH1606 RAH1607	RAH1622 RAH1615 RAH1621	RAH1622 RAH1615 RAH1621	RAH1622 RAH1615 RAH1621	RAH1622 RAH1615 RAH1621	RAH1622 RAH1615 RAH1621	RAH1622 RAH1615 RAH1621	RAH1622 RAH1615 RAH1621
	Door pocket (L) Door pocket (R) Stabilizer (B) Insulator Leg assembly	RAH1609 RAH1610 REB1085 VNK1095	RAH1612 RAH1613	RAH1612 RAH1613	RAH1612 RAH1613 VNK1095	RAH1612 RAH1613 VNK1095	RAH1612 RAH1613	RAH1612 RAH1613	RAH1627 RAH1628 VNK1095
	Stopper Knob (B) VR knob (B) Operation knob (B) Power knob	VEC1061 RAC1414 RAC1421 RAC1424 RAC1427	RAC1421 RAC1424 RAC1427	RAC1421 RAC1424 RAC1427	VEC1061 RAC1414 RAC1421 RAC1424 RAC1427	VEC1061 RAC1414 RAC1421 RAC1424 RAC1427	RAC1421 RAC1424 RAC1427	RAC1421 RAC1424 RAC1427	VEC1061 RAC1492 RAC1484 RAC1489

	Symbol	Part No.							
Mark	& Description	CT-W630R/ KUC type	CT-W530R/ KUC type	CT-W530R/ KUCXJ type	CT-W530R/ HEM type	CT-W530R/ HEMXJ type	CT-W530R/ HPW type	CT-W530R/ SD type	CT-W530R-S /HEWM type
	Slide knob	RAC1428	RAC1428	RAC1428	RAC1428	RAC1428	RAC1428	RAC1428	RAC1486
	VR knob (A)	RAC1430	RAC1430	RAC1430	RAC1430	RAC1430	RAC1430	RAC1430	RAC1485
	Operation knob (C)	RAC1475	RAC1475	RAC1475	RAC1475	RAC1475	RAC1475	RAC1475	RAC1493
	Operation knob (A)	RAC1479	RAC1479	RAC1479	RAC1479	RAC1479	RAC1479	RAC1479	RAC1488
	Eject knob	RAC1480	RAC1480	RAC1480	RAC1480	RAC1480	RAC1480	RAC1480	RAC1491
	REC mold (L)	RAH1608	RAH1608	RAH1608	RAH1608	RAH1608	RAH1608	RAH1608	RAH1645
	REC mold	RAH1611	RAH1611	RAH1611	RAH1611	RAH1611	RAH1611	RAH1611	RAH1623
	Bonnet	RXX1079	RXX1079	RXX1079	RXX1079	RXX1079	RXX1079	RXX1079	RXX1080
	Front panel assembly	RXX1259	RXX1260	RXX1260	RXX1260	RXX1260	RXX1260	RXX1260	RXX1264
	Packing case	RHG1164	RHG1166	RHG1200	RHG1174	RHG1201	RXX1169	RHG1169	RHG1170
	Operating instructions (English)	RRB1058	RRB1058	RRB1069	RRB1058	RRB1069	RXX1058	RRB1058	••••
	Operating instructions	•••••		• • • • •	RRD1068	RRD1084	• • • • •	• • • • •	RRD1068
	(French, German,								
	Italian, Dutch,								
	Swedish, Spanish,								
	Portuguese)								
	Operating instructions	••••	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • •	• • • • • •	RRD1067	• • • • •
	(Spanish)								

NOTE: Volume unit, Transformer 1 unit, Transformer 2 unit, Control SW (1) unit, Control SW (2) unit, Switch unit, Regulator unit No different parts to be surpplied.

MAIN UNIT

The main units of CT-W530R/KUC, KUCXJ, HEM, HEMXJ, HPW, SD and CT-W530R-S/HEWM types are the same as the main unit of CT-W630R/KUC type with the exception of the following sections.

Mark	Symbol & Description	CT-W630R/KUC type	CT-W530R/KUC, KUCXJ, HEM, HEMXJ, HPW, SD and CT-W530R-S/HEWM types	Remarks
	Q408 L402 Oscillator coil C403 C405 R406, R407 R425 VR405, VR406 Semi-fixed (100k)	2SC1815 RTD1048 CQPA682J100 CFTXA332J50 RD1/6 PM123J	2SD1302 RTD1049 CQPA752J100 CFTXA472J50 RD 1/6 PM103J RD 1/6 PM4R7J VRTB6VS104	

DISPLAY UNIT

The display units of CT-W530/KUC, KUCXJ, HEM, HEMXJ, HPW, SD and CT-W530R-S/HEWM types are the same as the display unit of CT-W630R/KUC type with the exception of the following sections.

		Part No.				
Mark	Symbol & Description	CT-W630R/ KUC type	CT-W530R/KUC, KUCXJ, HPW and SD types	CT-W530R/HEM, HEMXJ and CT-W530R-S/HEWM types	Remarks	
	D1507-D1509, D1511-D1517, D1520, D1521, D1523-D1527	SEL4914D-X	SEL4914D-X	SEL4414G		
	D1536, D1541 R1516	SEL4214R RD 1/8 PM152J	•••••			

11. SPECIFICATIONS

System
Motor DC servo capstan motor × 2
DC reel motor × 2 Wow and Flutter No more than 0.055% (WRMS) (JIS) No more than ±0.16% (DIN)
Fast Winding Time Approximately 90 seconds
(C-60 tape)
Frequency Response - 20 dB recording:
Metal tape
Chrome tape
Normal tape
Signal-to-Noise Ratio Dolby NR OFF More than 57 dB
Noise Reduction Effect
Dolby B-type NR ON More than 10 dB (at 5 kHz) Dolby C-type NR ON More than 19 dB (at 5 kHz)
Harmonic Distortion
LINE (INPUT)
Output (Reference level)
LINE (OUTPUT)

Subfunctions

- DOLBY HX PRO recording function (only on deck II of model CT-W630 R)
- DOLBY NR B/C types
- Music search over ± 15 selections
- High-speed and normal-speed copy (DECK I→DECK II)
- Relay playback/blank skip
- CD•DECK synchro recording capability
- Microphone jacks (CT-W630R only)
- Peak level meter with peak-hold function
- Automatic space recording mute
- Automatic tape selector
- System remote control available (Not on European model of CT-W630R)
- TIMER Recording
- TIMER Playback (Automatic relay on)

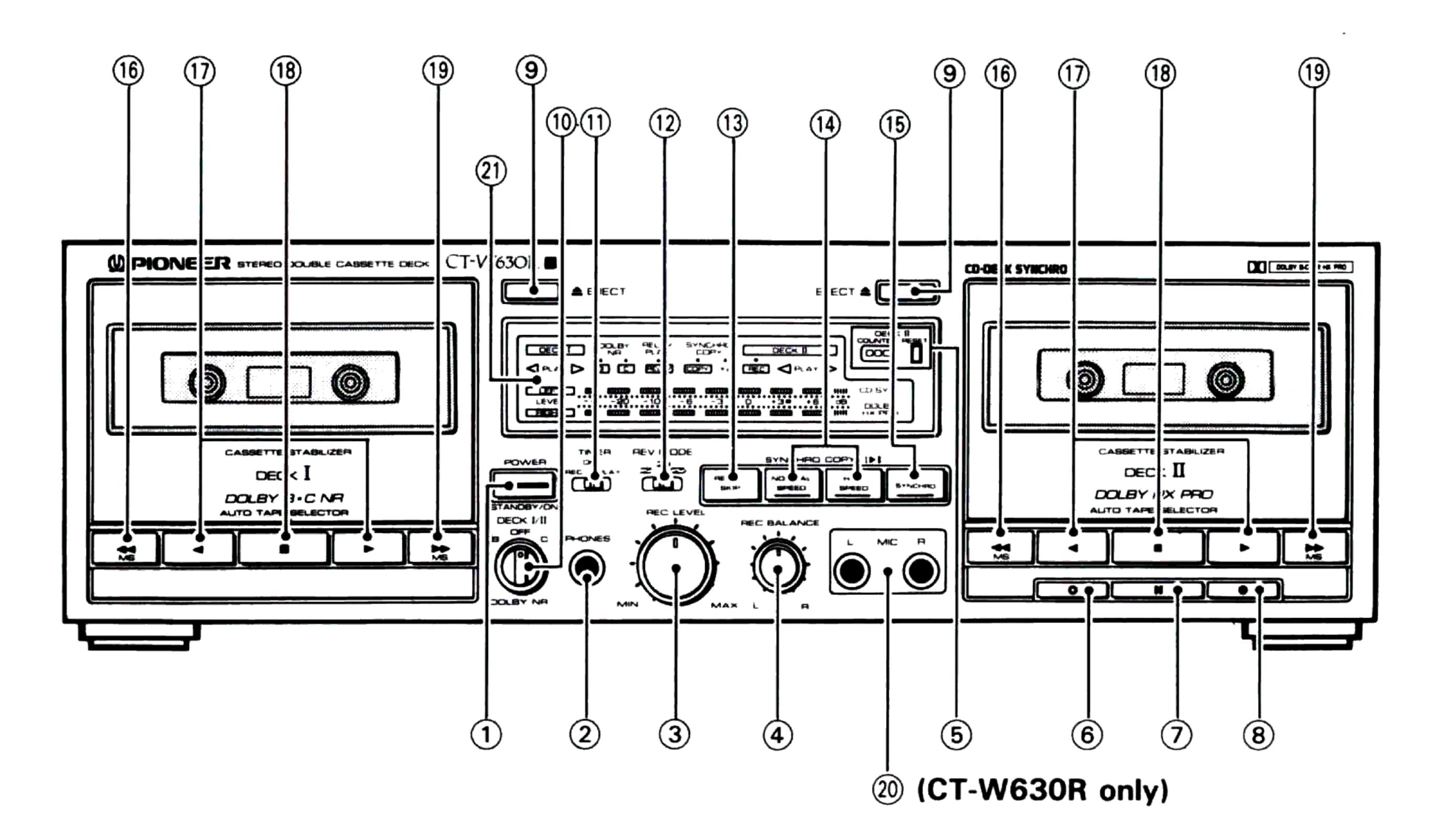
Miscellaneous

Power Requirements
U.S., Canadian models AC 120V, 60 Hz
U.K., Australian models AC 240 Volts ~, 50/60 Hz
European model AC 220 Volts ~, 50/60 Hz
Multi-voltage models AC 110V/120V-127V/220V/240V
(switchable), 50/60 Hz
Power Consumption
CT-W630R 24W
CT-W530R 23W
Dimensions
CT-W630R 420(W) × 128(H) × 268(D) mm
$16-9/16(W) \times 5-1/16(H) \times 10-1/2(D)$ in
CT-W530R:
(except European model) 420(W) × 123(H) × 268(D) mm
16-9/16(W) × 4-13/16(H) × 10-1/2(D) in
CT-W530R:
(European model) 420(W) × 128(H) × 268(D) mm
$16-9/16(W) \times 5-1/16(H) \times 10-1/2(D)$ in
Weight (without package) 4.6 kg (10 lb 2 oz)
Accessories
Operating instructions 1
Connection cord with pin plugs
Remote control cord
(Not on European model of CT-W630R)
CD•DECK synchro control cord

NOTE:

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

12. PANEL FACILITIES



1) POWER (STANDBY/ON) switch

The unit POWER switch is geared to selecting the transformer secondary and so even at the STANDBY position, the unit circuitry will work as long as the power cord is connected to a power outlet.

2 PHONES jack

To insert headphones jack.

(3) REC LEVEL control

4 REC BALANCE control

Balances the recording level between left (L) and right (R) channels.

(5) DECK II tape COUNTER and RESET button

Resets the tape counter reading to "000". (The tape COUNTER works for deck II only.)

6 Recording mute button (O)

Pressing this button during recording, creates a blank portion of approximately 4 seconds on the tape. The unit then enters the recording pause mode.

7 Pause button (II)

Stops tape transport temporarily during recording or playback. Press the button again to resume operation. (This can also be done by pressing the Play (▶ or ◄) button.) This button does not work during fast-forward and rewind.

(8) Recording button (•)

When the recording (●) button is pressed, the unit is set to recording standby mode. Press the pause (■) button or playback (▶ or ◄) button when ready to record.

The unit will not enter the recording standby if a cassette with broken erasure prevention tabs is loaded.

Only deck II is equipped with a recording function.

9 EJECT button (📤)

Press to open the cassette door after you have pressed the stop () button and the tape has stopped.

NOTE:

If the power is turned off while the tape is moving, the cassette door may remain locked. In this case, turn the power on before pressing the EJECT button (\triangle).

10 DOLBY* NR switch

Set this switch to B or C for recording with the built-in Dolby Noise Reduction Systems and for playback of tapes which have been recorded using the Dolby Noise Reduction Systems. To play other tapes, set the DOLBY NR switch to OFF.

When the DOLBY NR switch is set to ON, the MPX filter function operates in synchronization with the Dolby noise reduction system. The operation of this filter may causes some high frequencies to be muted when the Dolby NR system is used for recording of FM broadcasts from some tuners.

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

(CT-W630R only)

- Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
- "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

NOTE:

When playing back Dolby NR-encoded tapes, always set this switch to the same position (B or C) used for recording.

(11) TIMER mode selector

OFF:

Normally, be sure to leave the selector in this position except for repeat playback.

REC:

Set to this position for timer recording.

PLAY:

Set to this position for timer playback.

- Recording or playback may suddenly start when turning power on with this selector in the REC or PLAY position.
- When the selector is set to the PLAY position and the unit is turned on with POWER switch ① or an audio timer, the unit automatically enters the playback mode.

12 REV MODE (reverse mode) selector

=:

Tape transport stops after one side of a tape is played or recorded.

-:

When the forward playback (▶) button is pressed, each side of the tape is played or recorded once. When the reverse playback (◄) button is pressed to play or record on the tape, tape transport stops at the end of the reverse side (the side facing away from you when you loaded the tape).



When the forward playback (▶) button is pressed, both sides of the tape are played continuously until 32 sides have been played. When the reverse playback (◄) button is pressed, both sides of the tape are played continuously until 31 sides have been played. In record mode, both sides of the tape are recorded once and then tape transport stops.

(13) RELAY/SKIP button

Press this button to perform relay playback from deck I to deck II or from deck II to deck I.

When this button is pressed and a blank section of more than 15 seconds is encountered during playback, the unit fast forwards the tape to the beginning of the next selection and playback starts at that point.

(14) SYNCHRO COPY (I►II) buttons

NORMAL SPEED:

Starts tape copy at normal speed from deck I to deck II.

HIGH SPEED:

Starts tape copy at double speed (half time, from deck I to deck II).

(15) CD SYNCHRO button

This button is used to carry out CD-Deck synchro recording from a CD player.

(16) Fast reverse button (◄◄, MS)

To fast-reverse the tape in the direction of the arrows. When pressed during playback, the unit will skip one selection each time the button is pressed, then starts playback from the beginning of the next selection.

① Playback button (▶ or ◀)

Play ▶:

Press this button to play back or record on the forward side of the tape (the side facing you). (Forward playback/recording) Used to start recording in record-standby mode.

Play **◀**:

Press this button to play back or record on the reverse side of the tape (the side facing away from you). (Reverse play-back/recording)

Used to start recording in record-standby mode.

(18) Stop button (■)

To stop all operations, including tape copy.

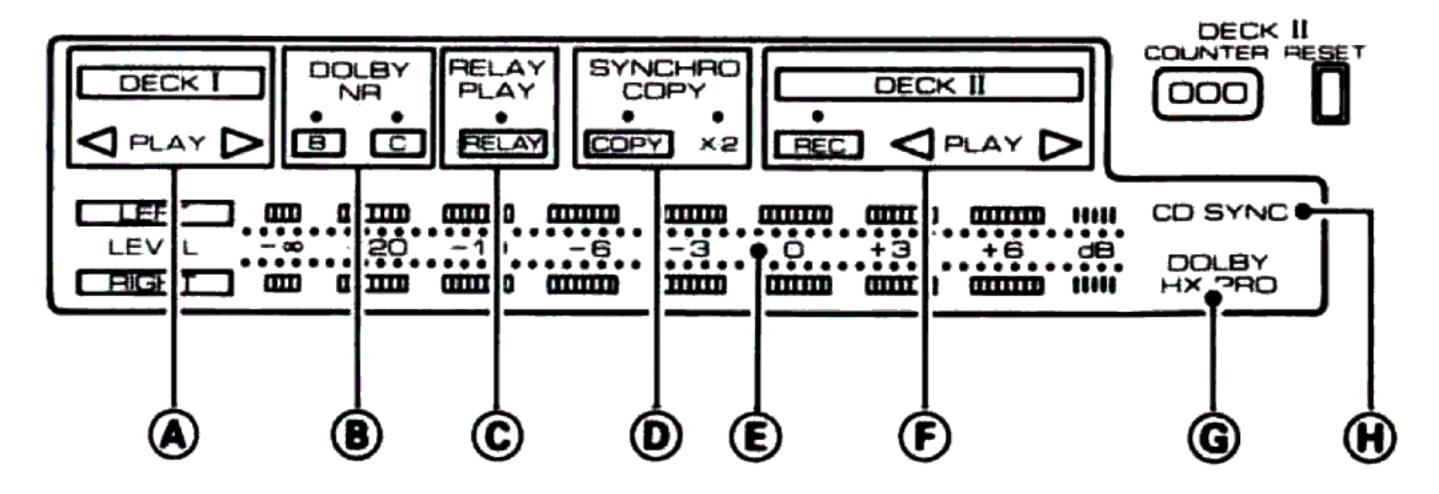
(19) Fast forward button (▶▶, MS)

To fast-forward the tape in the direction of the arrows. When pressed during playback, the unit will skip one selection each time the button is pressed, then start playback from the beginning of the next selection.

20 MIC-L/R jacks (CT-W630R only)

To insert the plugs of the microphones L and R.

21 Operating Display



(A) DECK I Tape Transport Mode Indicators

B DOLBY NR Indicator

When Dolby NR is off

DOLBY
NR

DOLBY

8

Dolby C-type NR on

Dolby B-type NR on

DOLBY

© RELAY PLAY Indicator

Lights up when RELAY/SKIP button is pressed to start relay playback or to activate skip mechanism.

(D) SYNCHRO COPY Indicator

Lights up during the tape copy operation.

Normal-speed copy

COPY

SYNCHRO

High-speed copy

COPY X 2

E LEVEL Meter

Holds peak indications for about 1.2 second. The DD beside the +3 dB mark indicates the Dolby NR systems standard level.

F DECK II Tape Transport Mode Indicators

© DOLBY HX PRO indicator (CT-W630R only)

This unit is provided with a built-in Dolby HX PRO Headroom Extension circuit. The DOLBY HX PRO indicator always appears on the display when the POWER switch is turned on.

(H) CD SYNCHRO indicator

Lights when synchro recording from a CD player is being carried out.