

SPECIFICATIONS

GENERAL

Power Requirements:

120 V ac, 60 Hz

Power Consumption:

11W

Dimensions:

Approx. 440 (w) \times 145 (h) \times 290 (d) mm

 $17\frac{1}{4}$ (w) × $5\frac{3}{4}$ (h) × $11\frac{3}{8}$ (d) inches

including projecting parts and control

Weight:

Approx. 6.3 kg, 13 lb 14 oz

TAPE RECORDER SECTION

4-track 2-channel stereo Track:

Fast Forward Rewind Time:

Approx. 90 seconds with Sony cassette C-60

Frequency Response:

DOLBY NR OFF

With Ferri-Chrome cassette

20-16,000 Hz

 $30-15,000 \,\mathrm{Hz} \pm 3 \,\mathrm{dB}$

With chromium dioxide cassette

20-16,000 Hz $30-15,000 \,\mathrm{Hz} \pm 3 \,\mathrm{dB}$

With regular cassette

20-14,000 Hz

Wow and Flutter:

0.08% WRMS

* 'Dolby' and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratory Inc.

S/N Ratio: DOLBY NR OFF

With Ferri-Chrome cassette

58 dB at peak level

With chromium dioxide cassette

54 dB at peak level

DOLBY NR ON

Improved by 5dB at 1kHz,

10 dB above 5 kHz

Total Harmonic

1.3% Distortion:

105 kHz Bias Frequency:

Inputs:

MIC (two phone jacks) Sensitivity: 0.2 mV (-72 dB)

Impedance: for low-impedance microphone

LINE IN (two phono jacks)

Sensitivity: 0.06 V (-22 dB)

Impedance: $100 \,\mathrm{k}\Omega$

Outputs:

LINE OUT (two phono jacks) Output level: 0.435 V (-5 dB)

Load impedance: $100 \,\mathrm{k}\Omega$

suitable load impedance more than $10\,\mathrm{k}\Omega$

HEADPHONES (binaural jack)

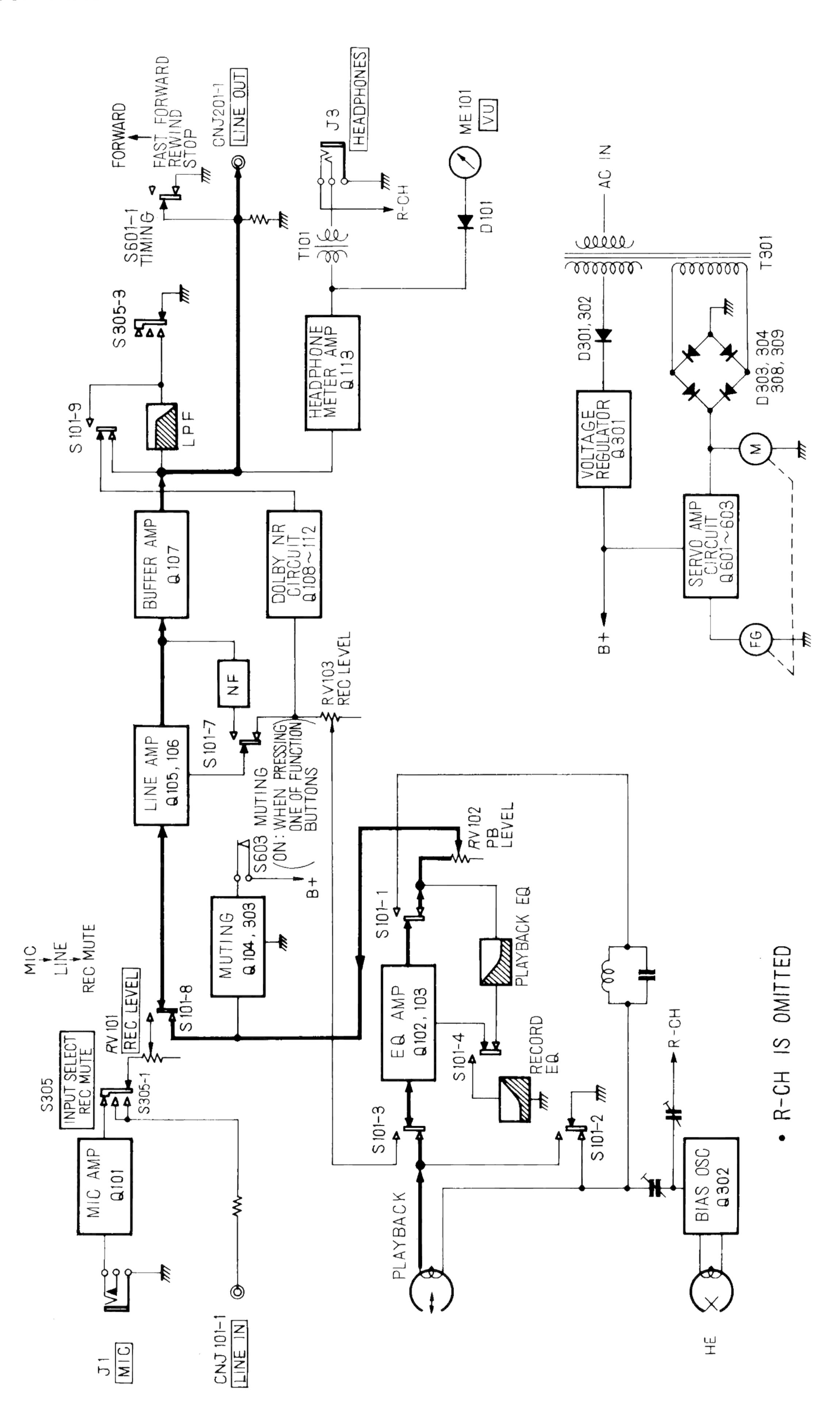
Load impedance: for low-impedance headphones

0 dB = 0.775V




SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM



SECTION 2 DISASSEMBLY

 Remove the parts in the numerical order. TOP CASE AND BOTTOM PLATE REMOVAL



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head erase head

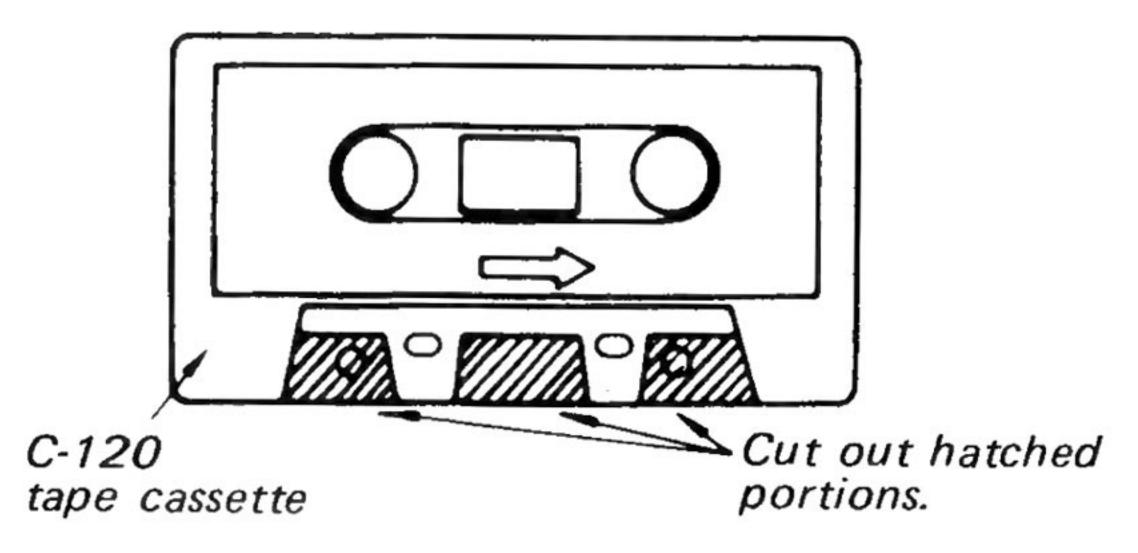
capstan

pinch roller rubber belts idlers

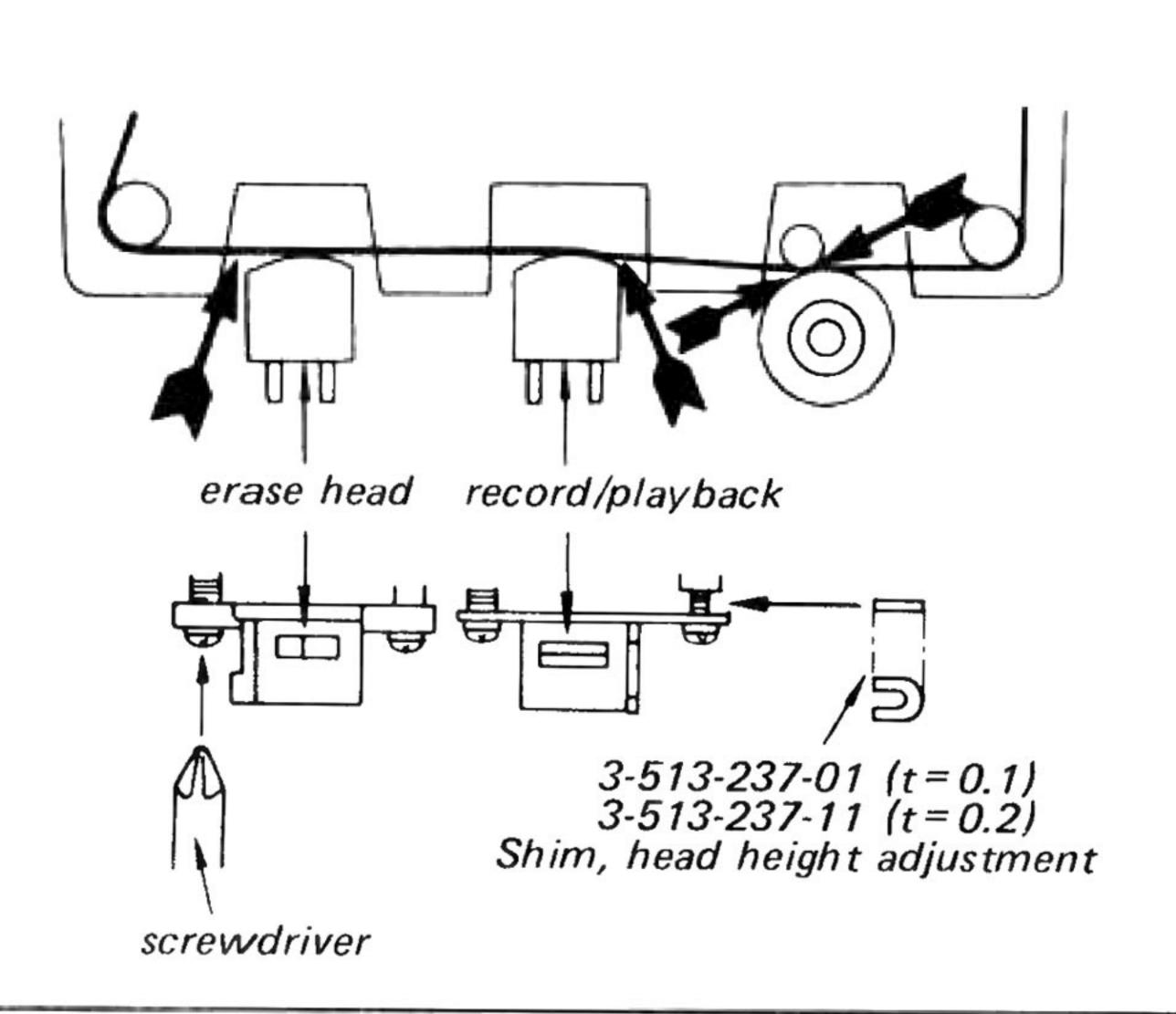
- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply a suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

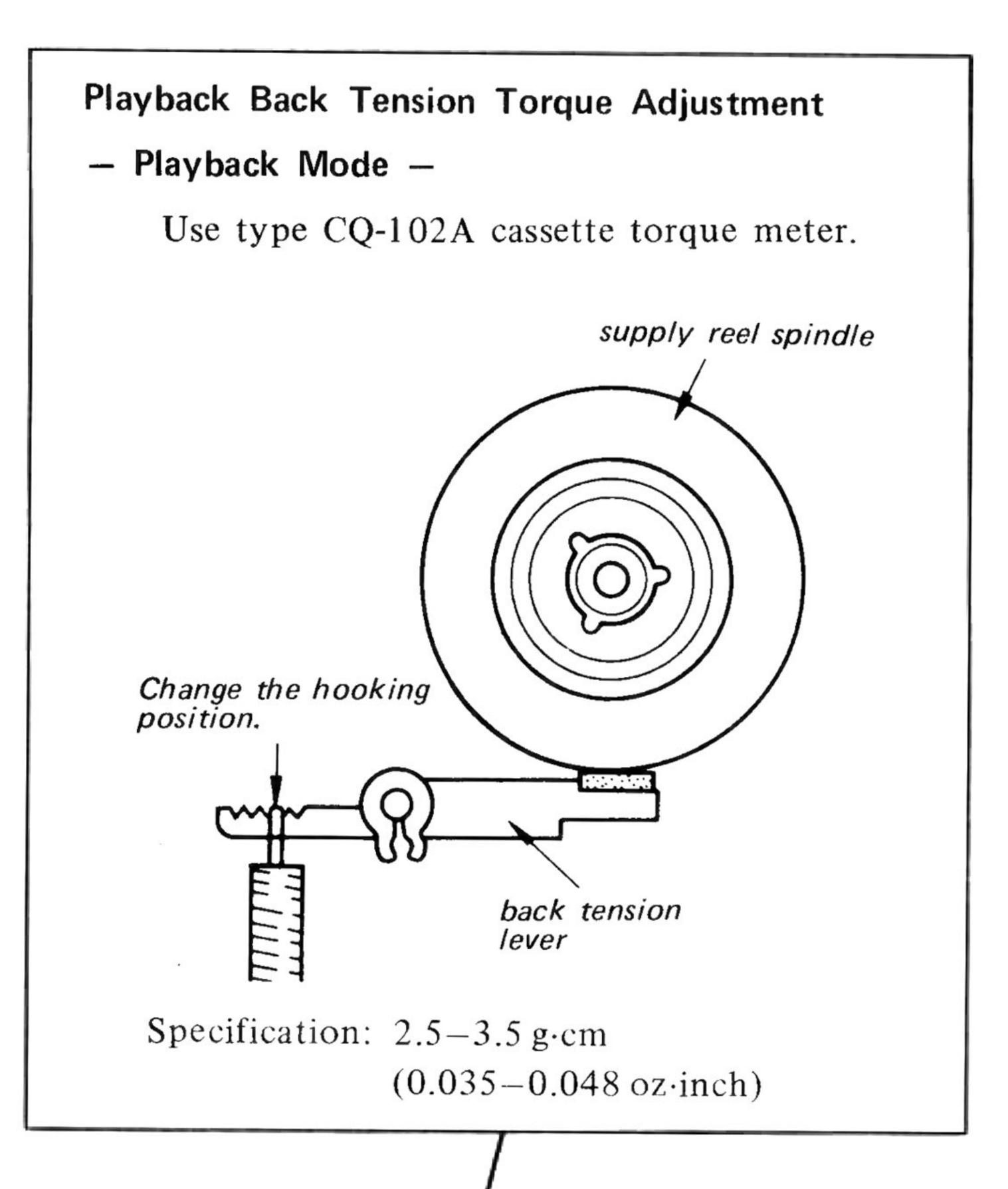
Tape Path Adjustment

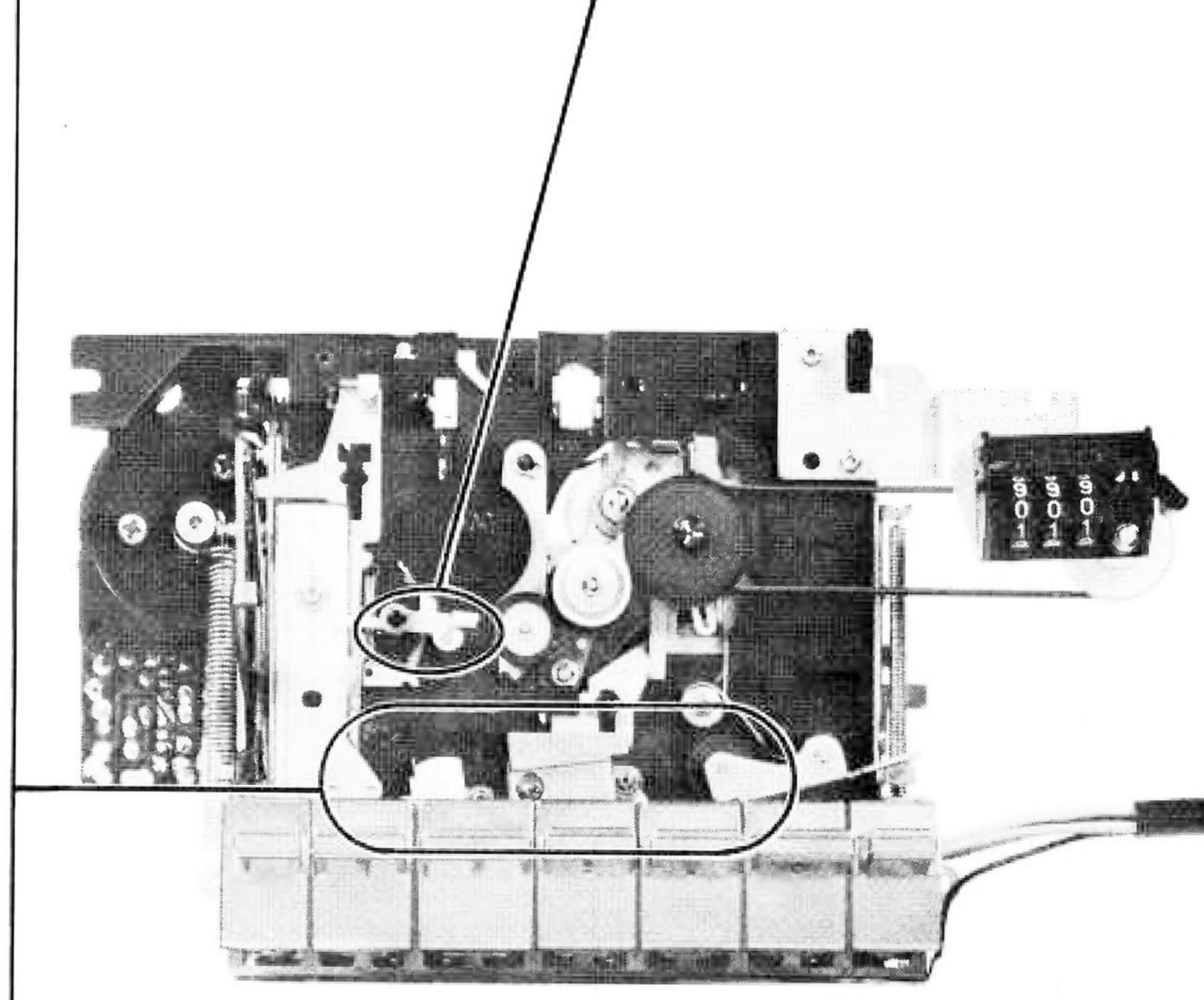
- Playback Mode -
 - 1. Make an adjustment cassette as shown below.

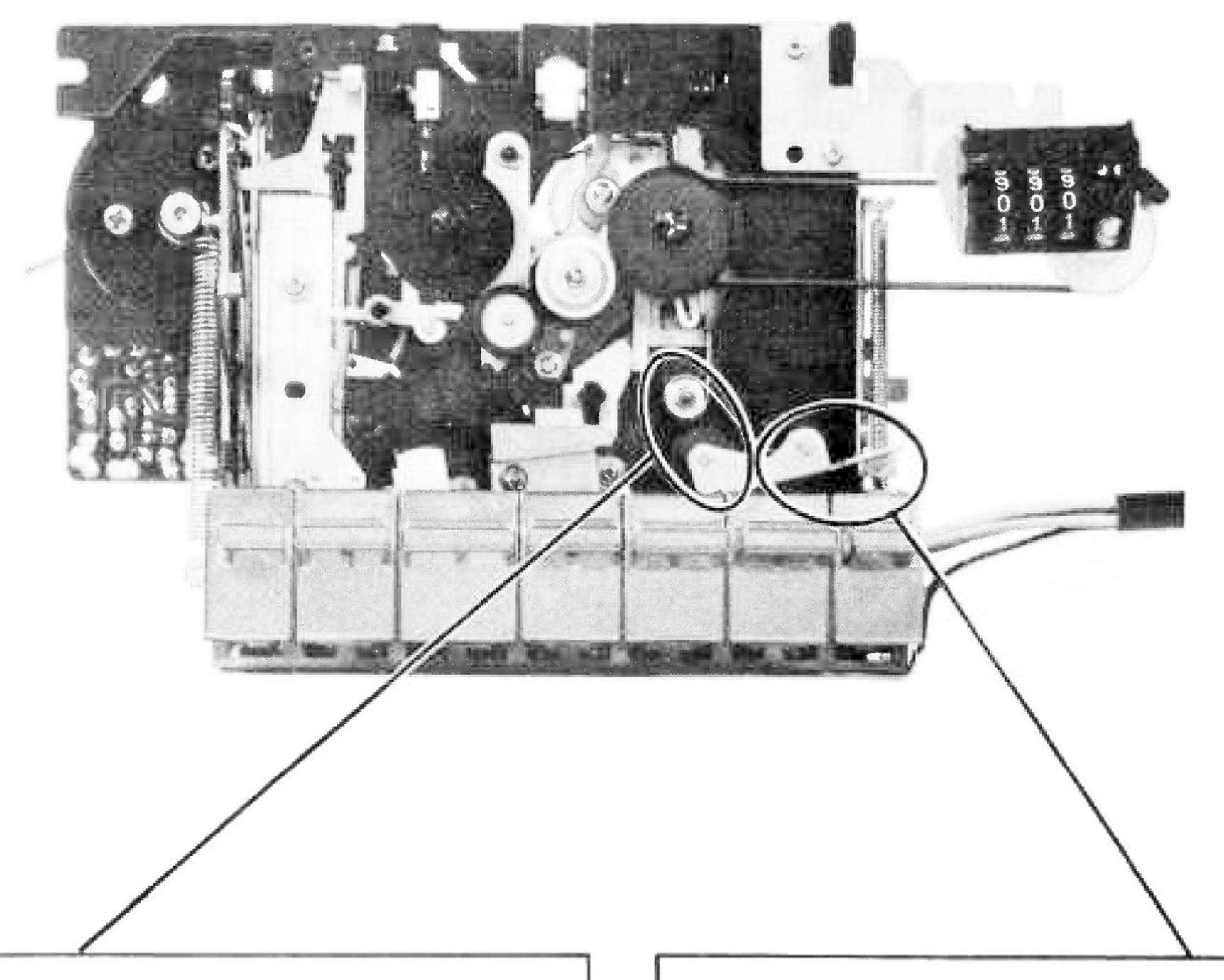


2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.





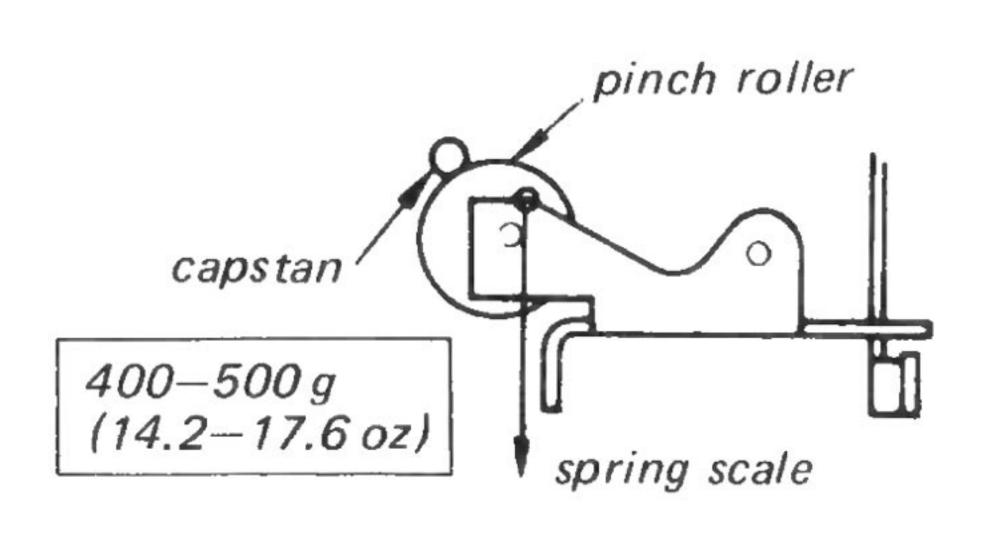




Pinch Roller Pressure Adjustment

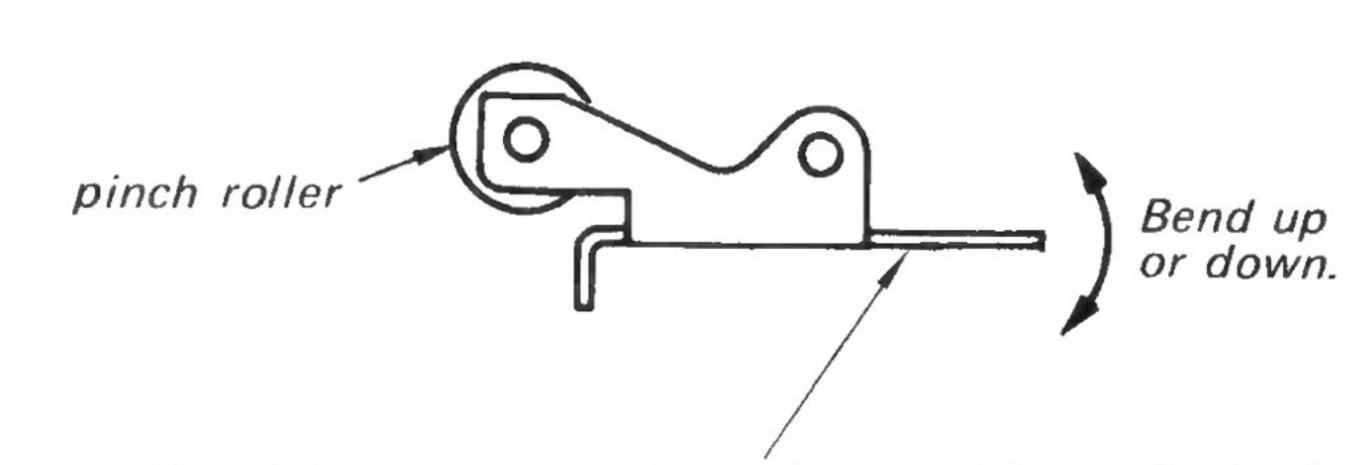
- Playback Mode -

- 1. Hook the pinch roller with a spring scale.
- 2. Pull the spring scale.
- 3. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.



PAUSE Timing Adjustment

PAUSE Mode –



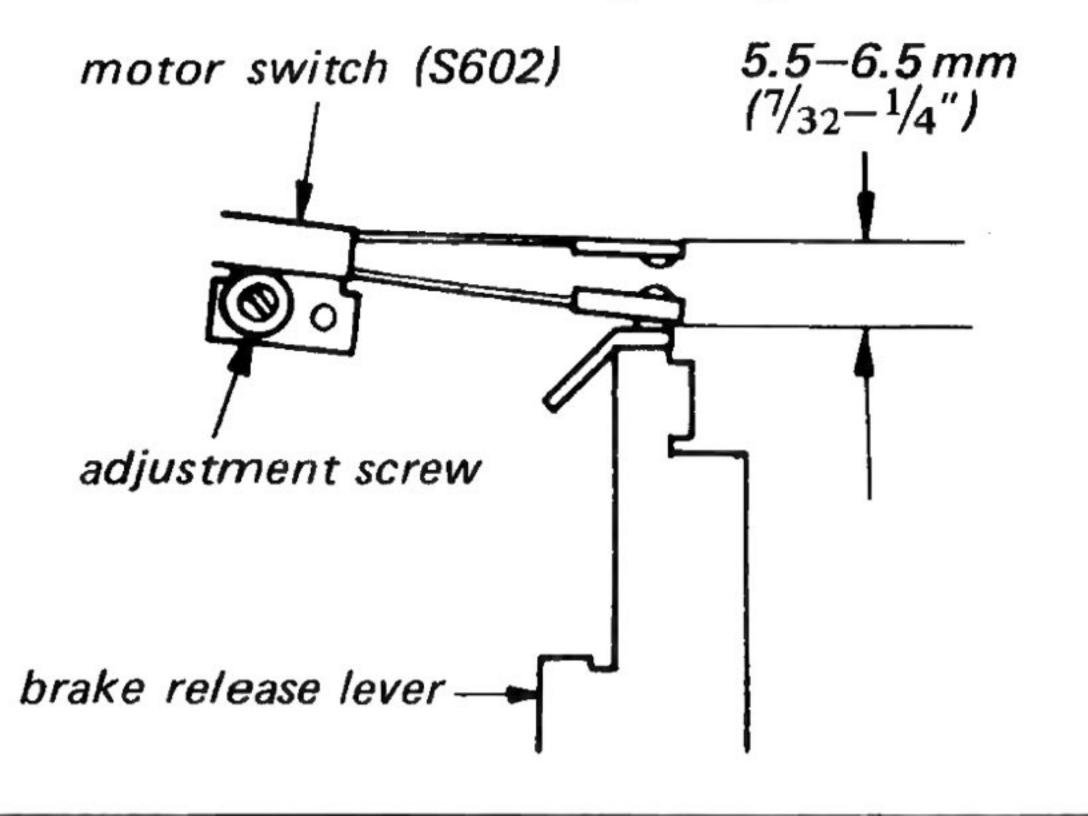
Bend here and adjust the position of pinch roller so that the rotations of pinch roller and reel spindles stop at the same time when slowly depressing PAUSE button.

Motor Switch (S602) Position Adjustment

Stop Mode –

Loosen adjustment screw and adjust the position of the switch for the specified clearance between the switch leaves.

After the adjustment, tighten and lock the screw with a suitable locking compound.

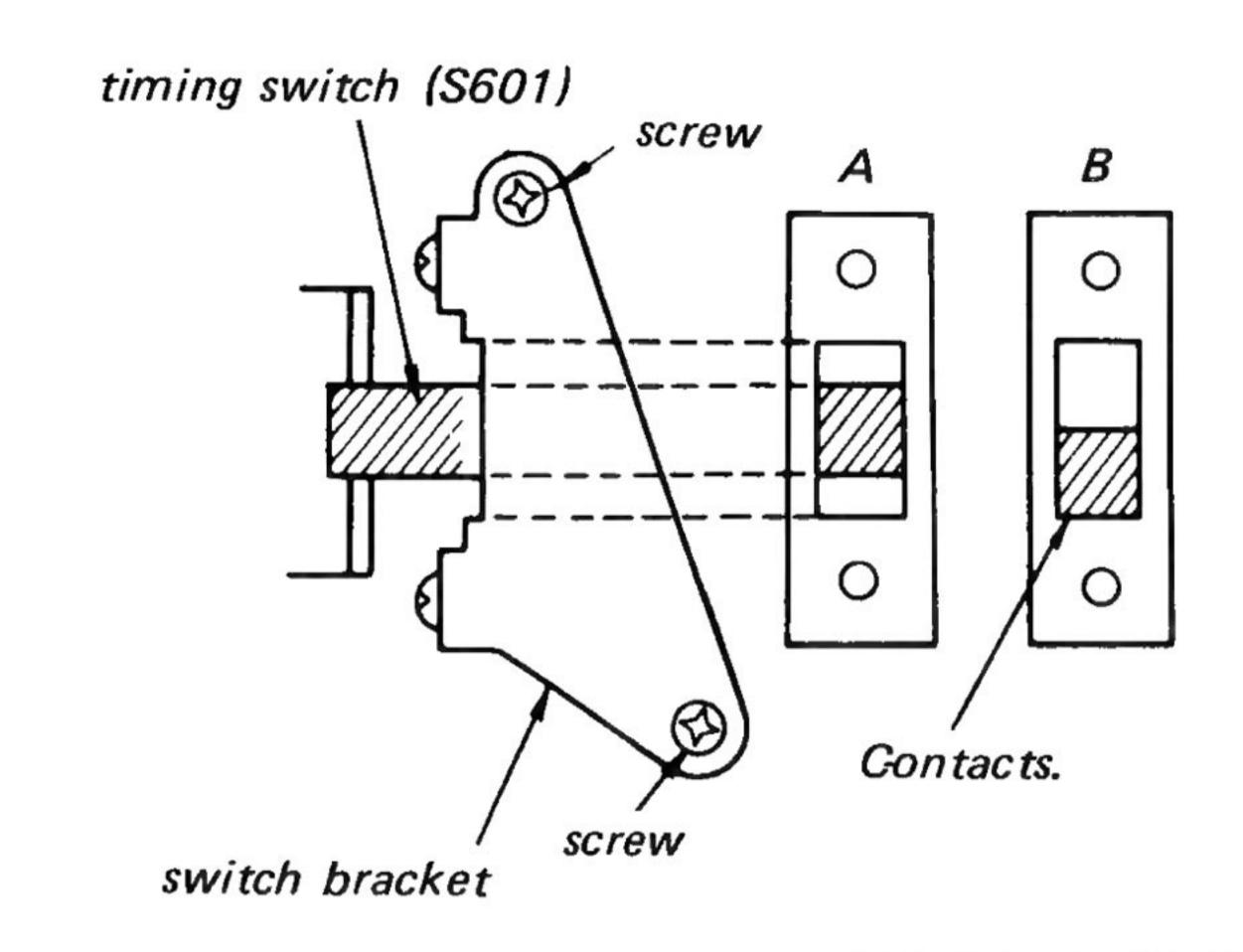


Timing Switch (S601) Position Adjustment

Stop Mode –

Loosen the screws and adjust position of the switch bracket as marked B in figure below.

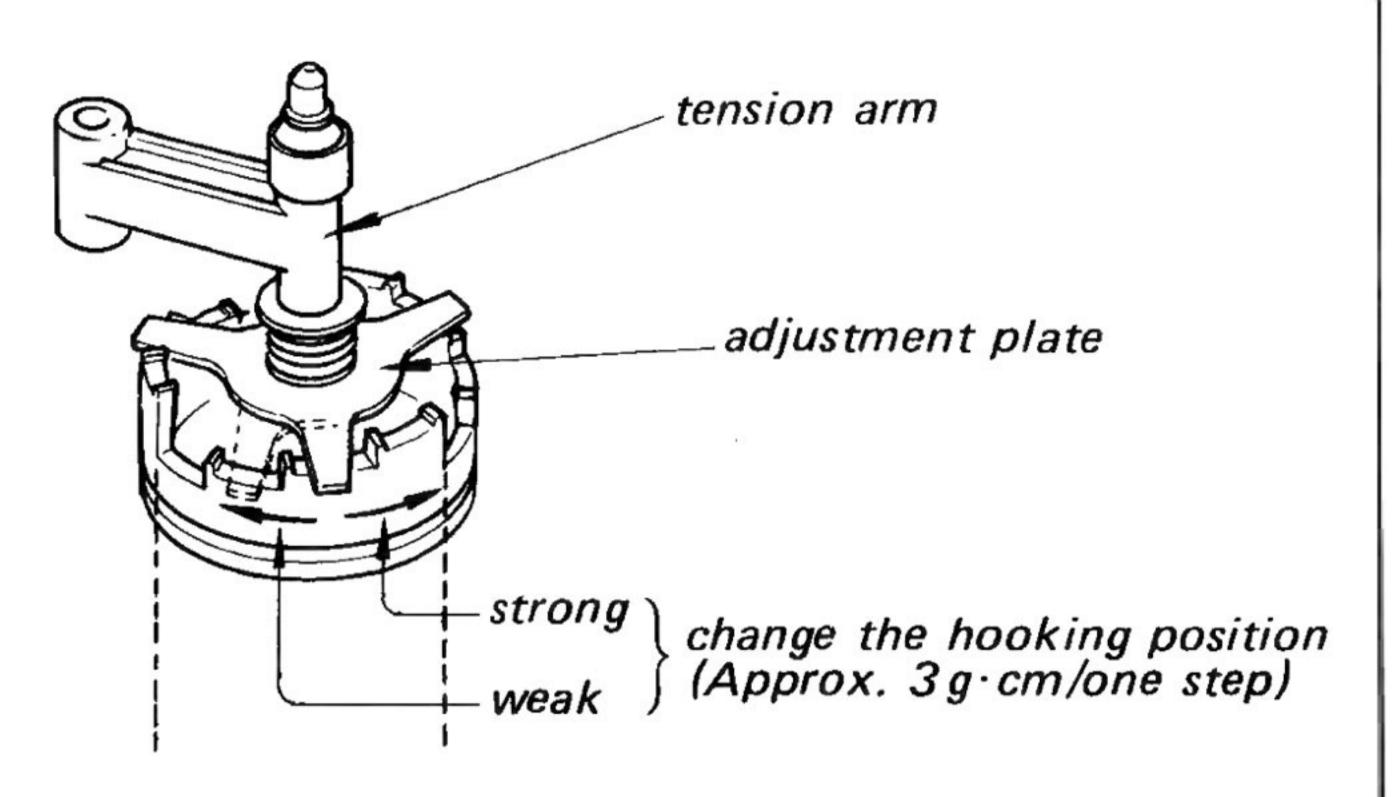
After the adjustment, tighten the screws.



Forward Torque Adjustment

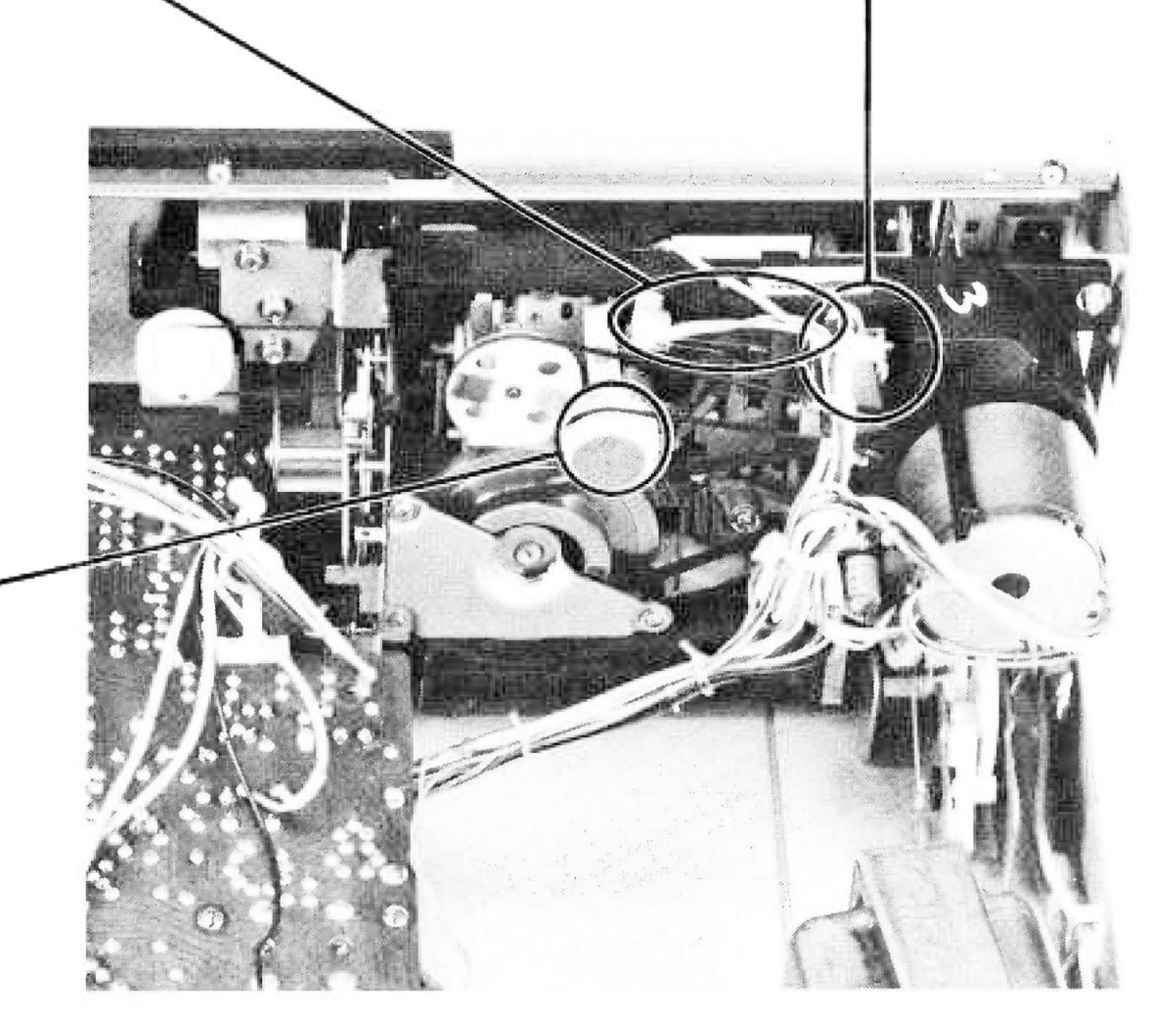
Playback Mode —

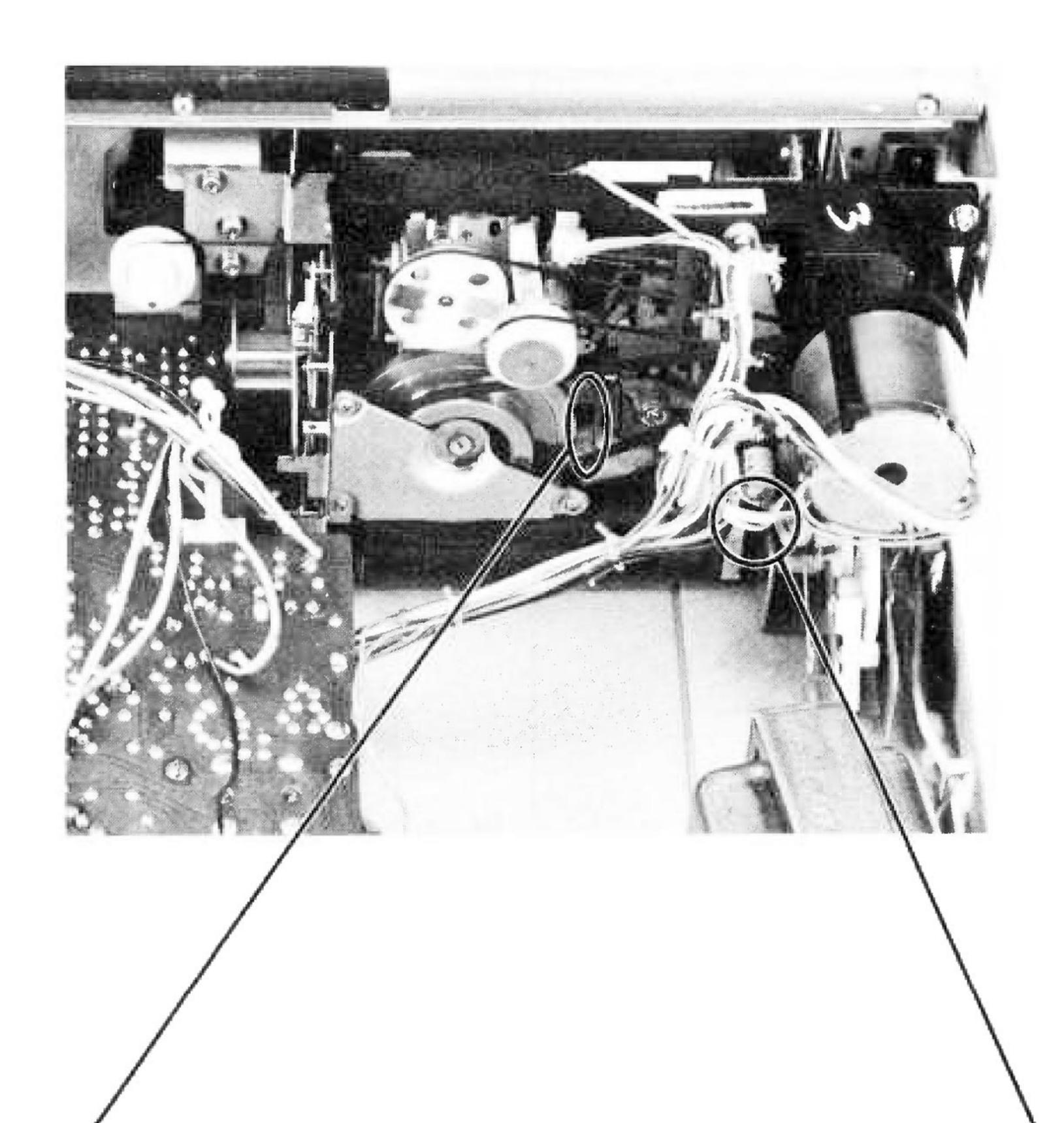
Use type CQ-102A cassette torque meter.



Specification: 28-50 g·cm

(0.39 - 0.69 oz-inch)

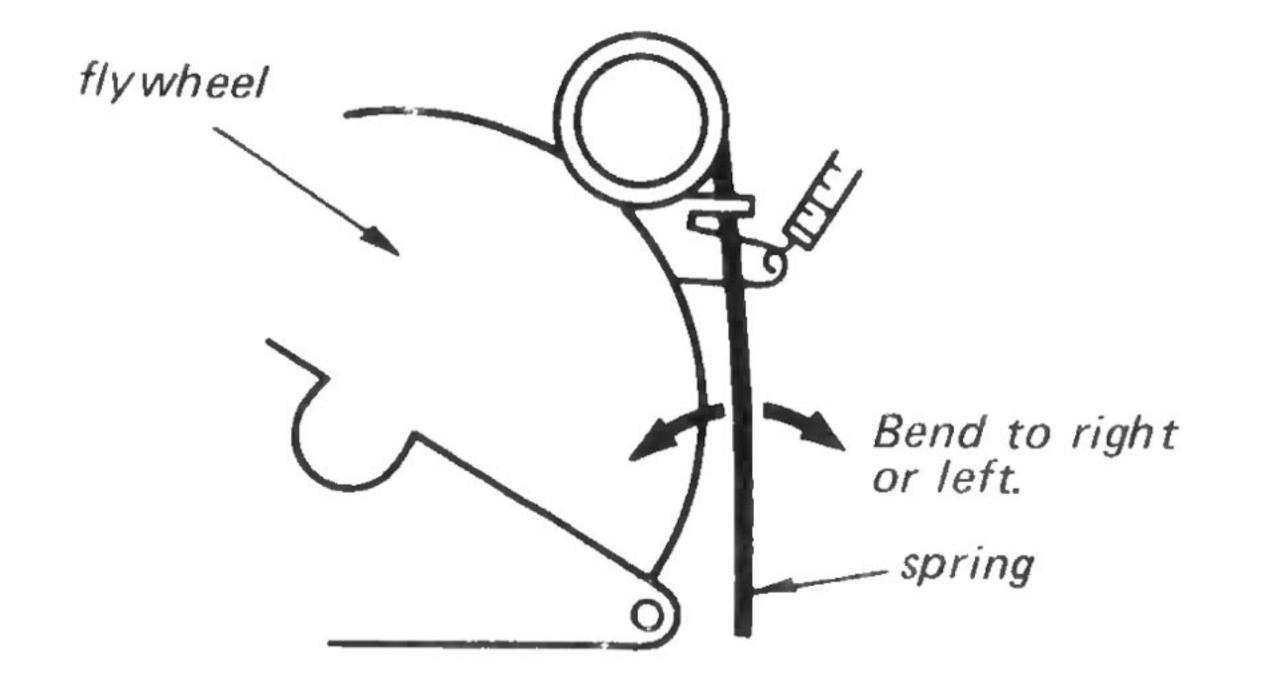




Fast Forward and Rewind Torque Adjustment

- Fast Forward and Rewind Modes -

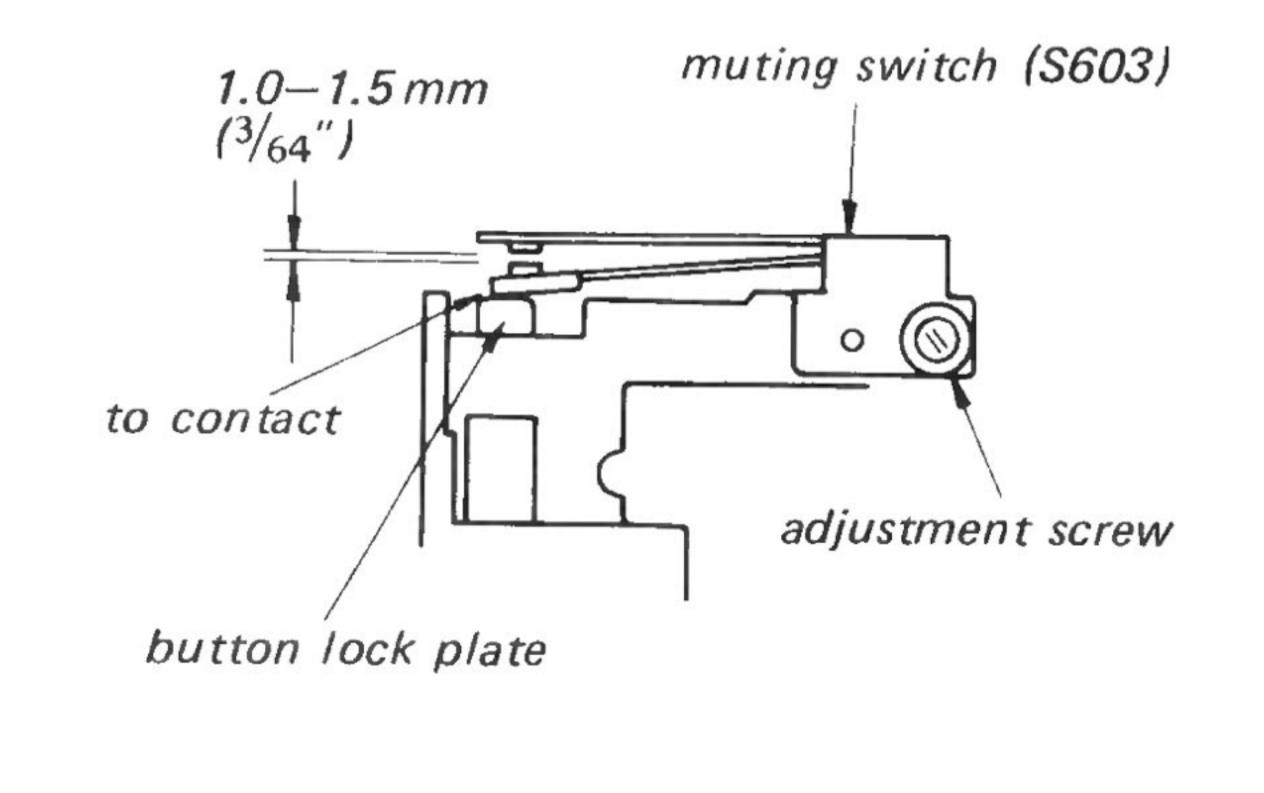
Use type CQ-201A cassette torque meter. Bend the spring for the torque of 55−95 g·cm (0.77−1.3 oz·inch).



Muting Switch (S603) Position Adjustment

Stop Mode –

Loosen the adjustment screw and adjust the position of the switch as specified.



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

Switches should be set as follows unless otherwise specified.

DOLBY NR switch: OFF

EQ switch: NORMAL BIAS switch: NORMAL

BIAS and EQ switch settings in accordance with tape used are as follows.

Tape	BIAS switch	EQ switch
CS-10	NORMAL	NORMAL
CS-20	HIGH	CrO ₂
CS-30	NORMAL	Fe-Cr

Standard Record

Supply the standard input level signal to the LINE IN jack and set the REC LEVEL control to obtain the standard output level.

Standard Input Level

	MIC	LINE IN
source impedance	300Ω	10 kΩ
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)

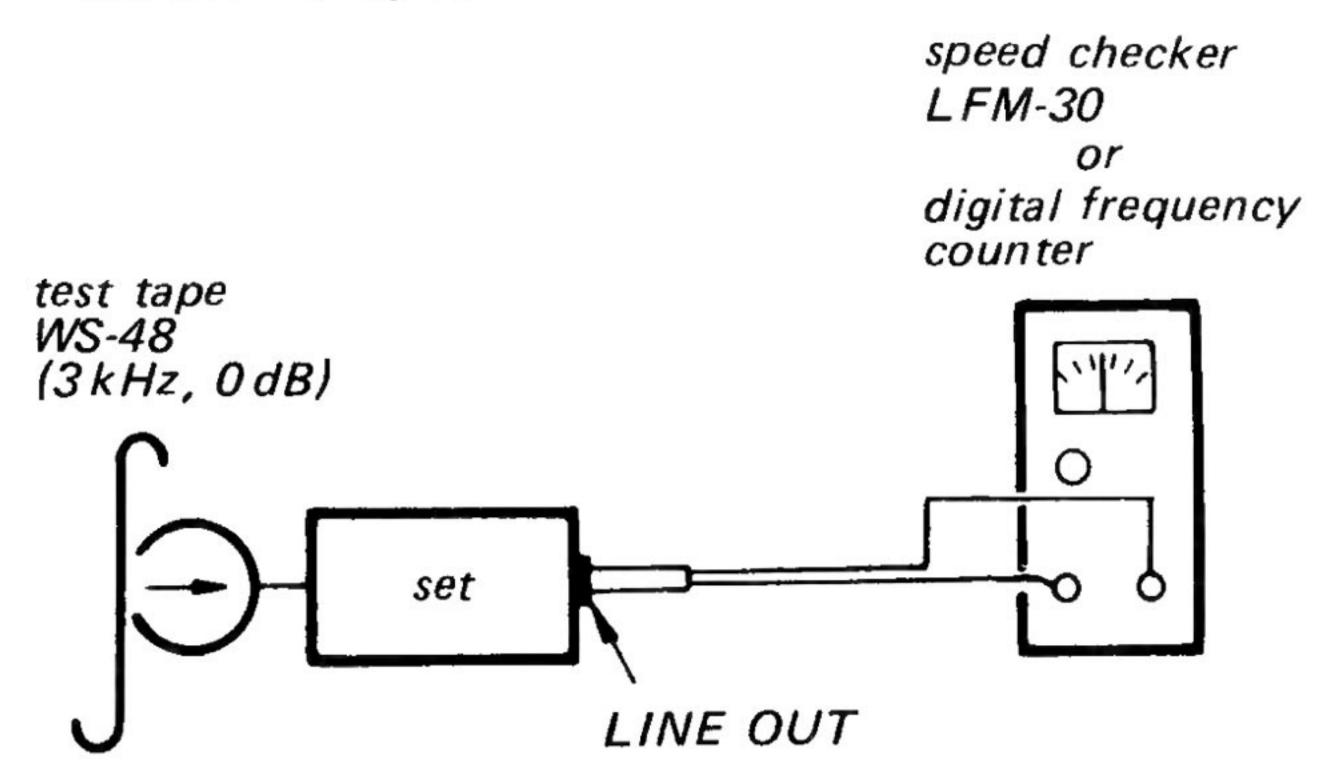
Standard Output Level

	LINE OUT	HEADPHONES
load impedance	100 kΩ	8 \Omega
output level	0.44 V (-5 dB)	39 mV (-26 dB)

Tape Speed Adjustment

Procedure:

Mode: Playback



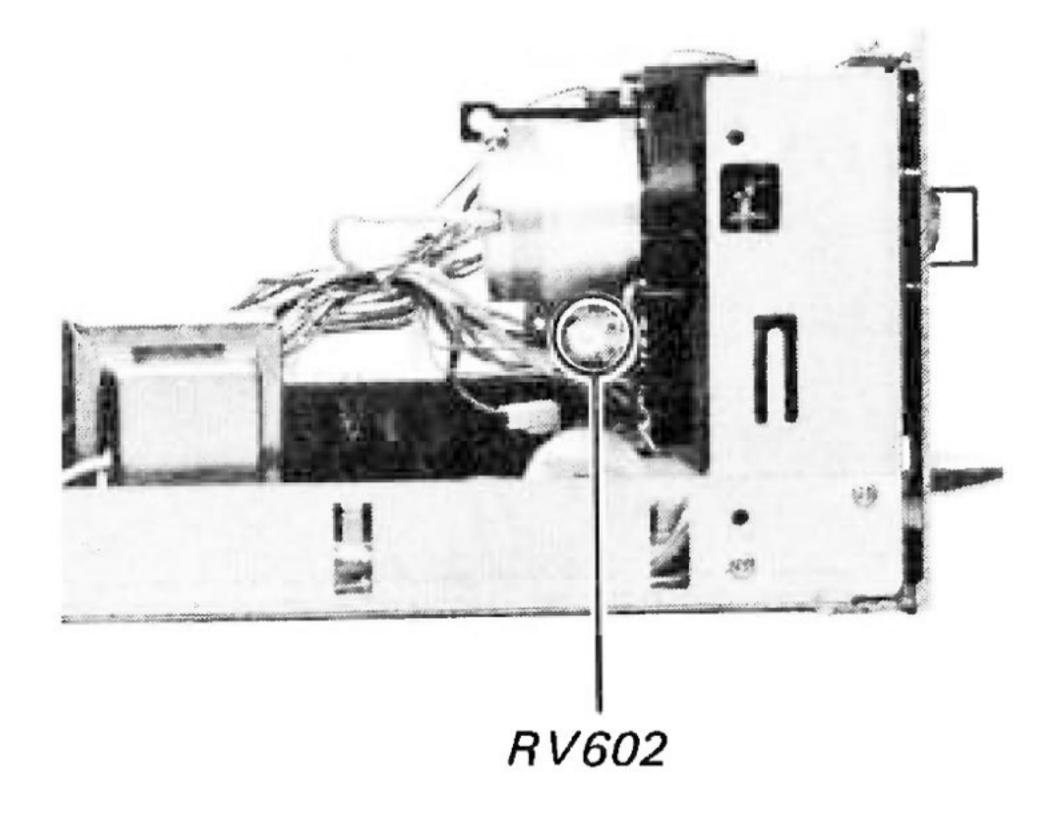
Adjust RV602 to obtain the specified values below.

Specification:

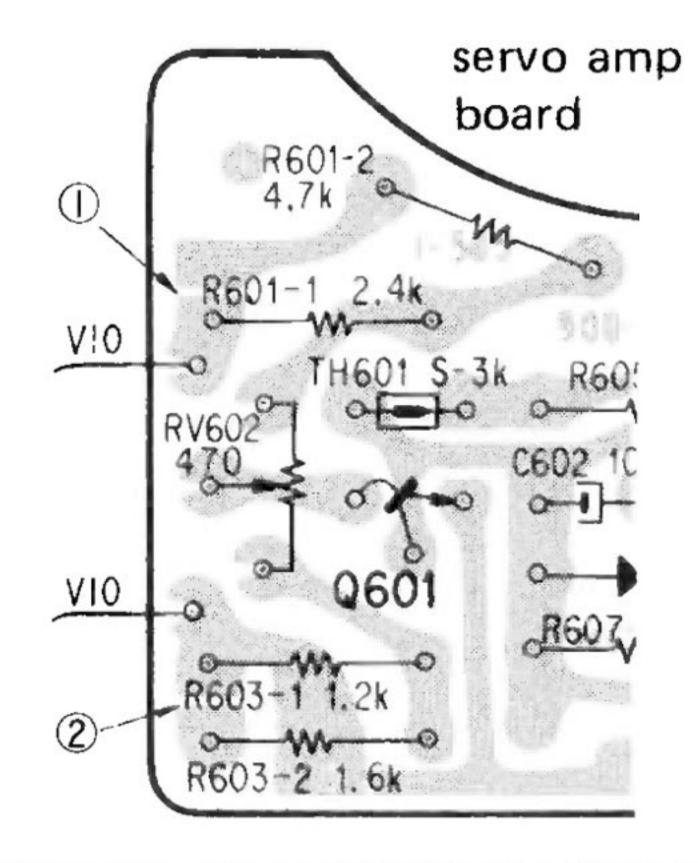
Speed checker	Digital frequency counter
±0.7%	2,980-3,020 Hz

Frequency difference between beginning and end of tape should be within 0.7% (20 Hz).

Adjustment Location:



If correct tape speed cannot be obtained by adjusting RV602, Solder ① or ②.

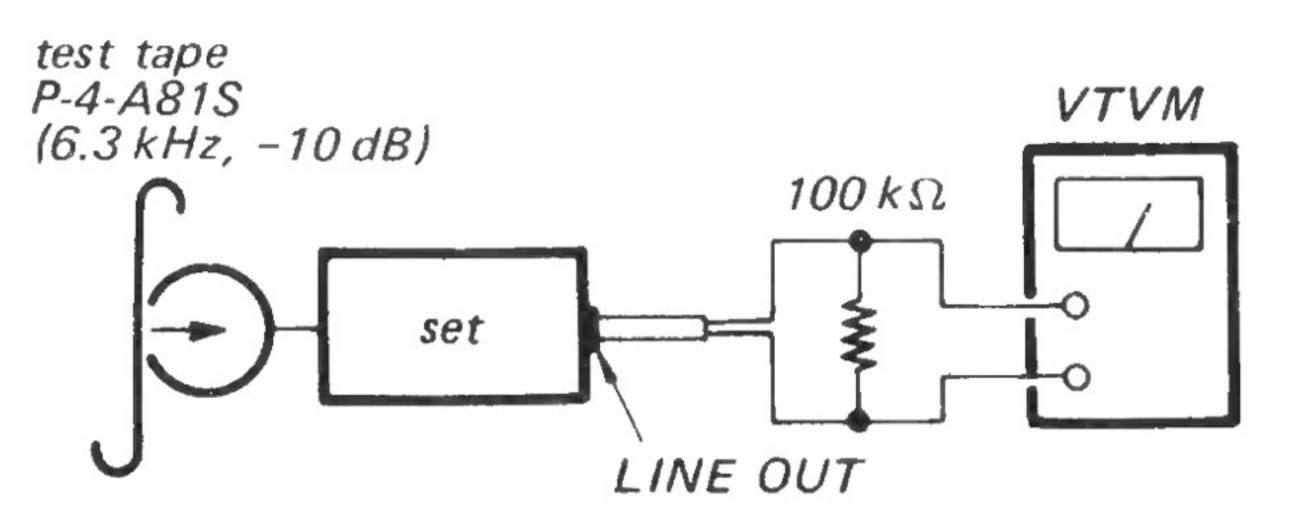


Solder portion	Tape speed
1	up
2	down

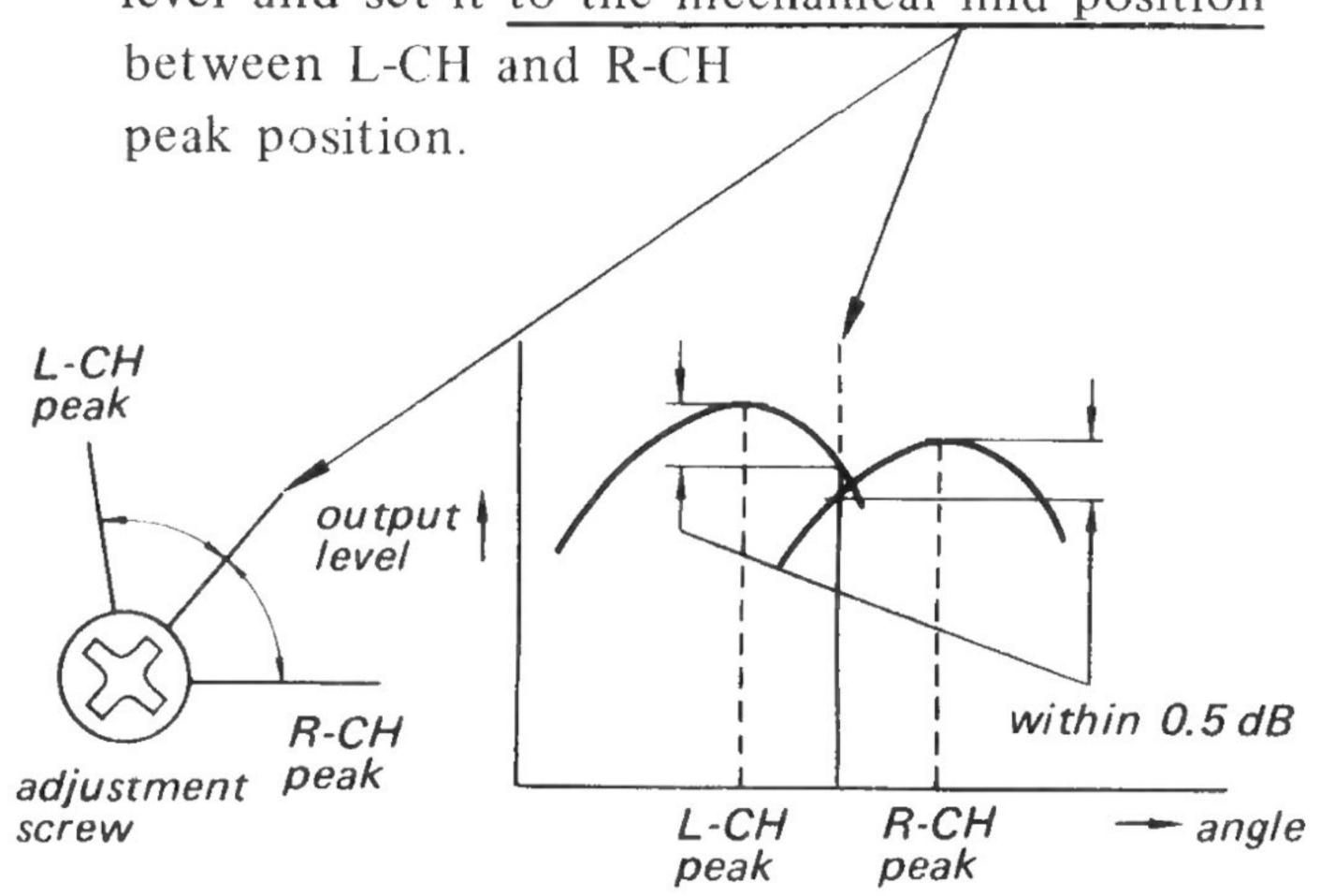
Record/playback Head Azimuth Adjustment

Procedure:

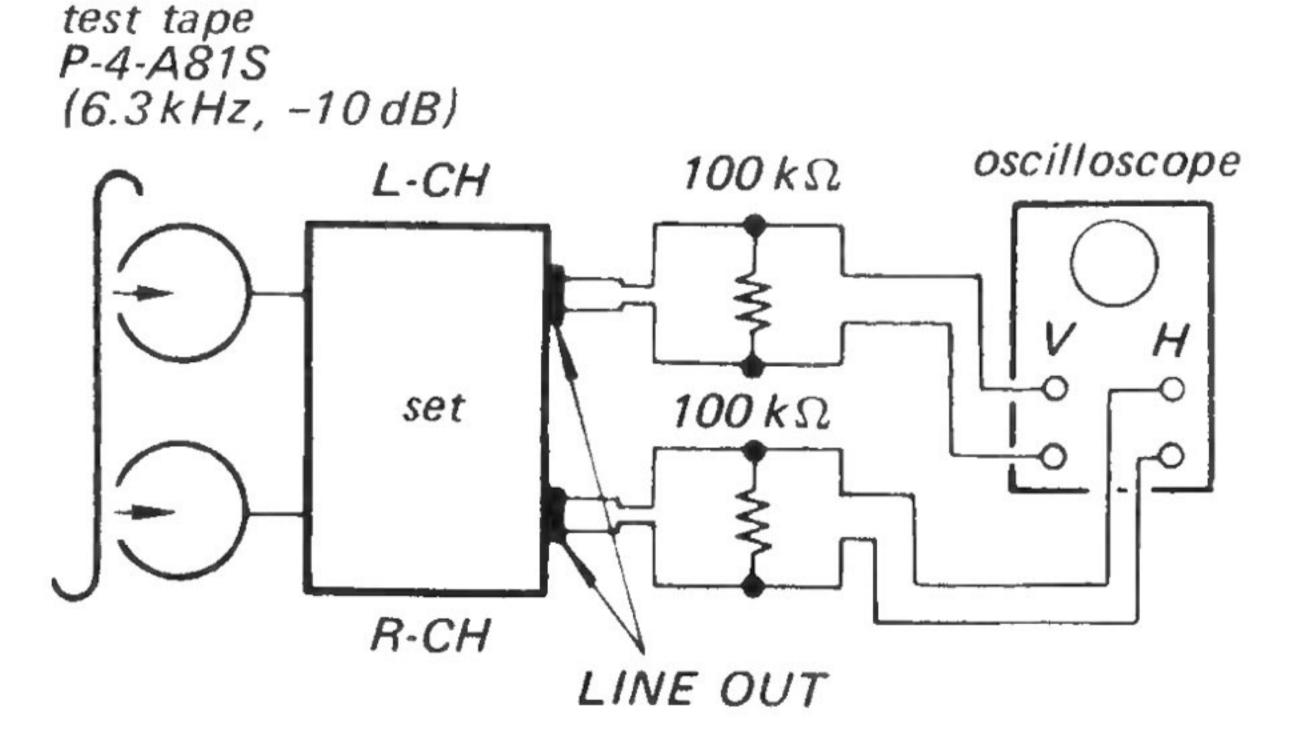
1. Mode: Playback

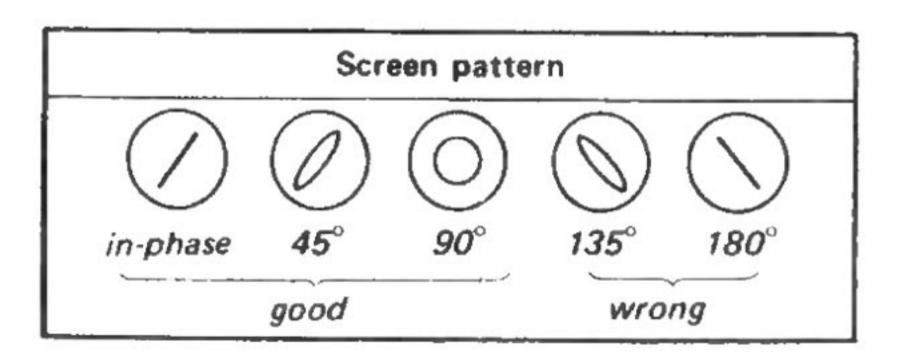


2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position

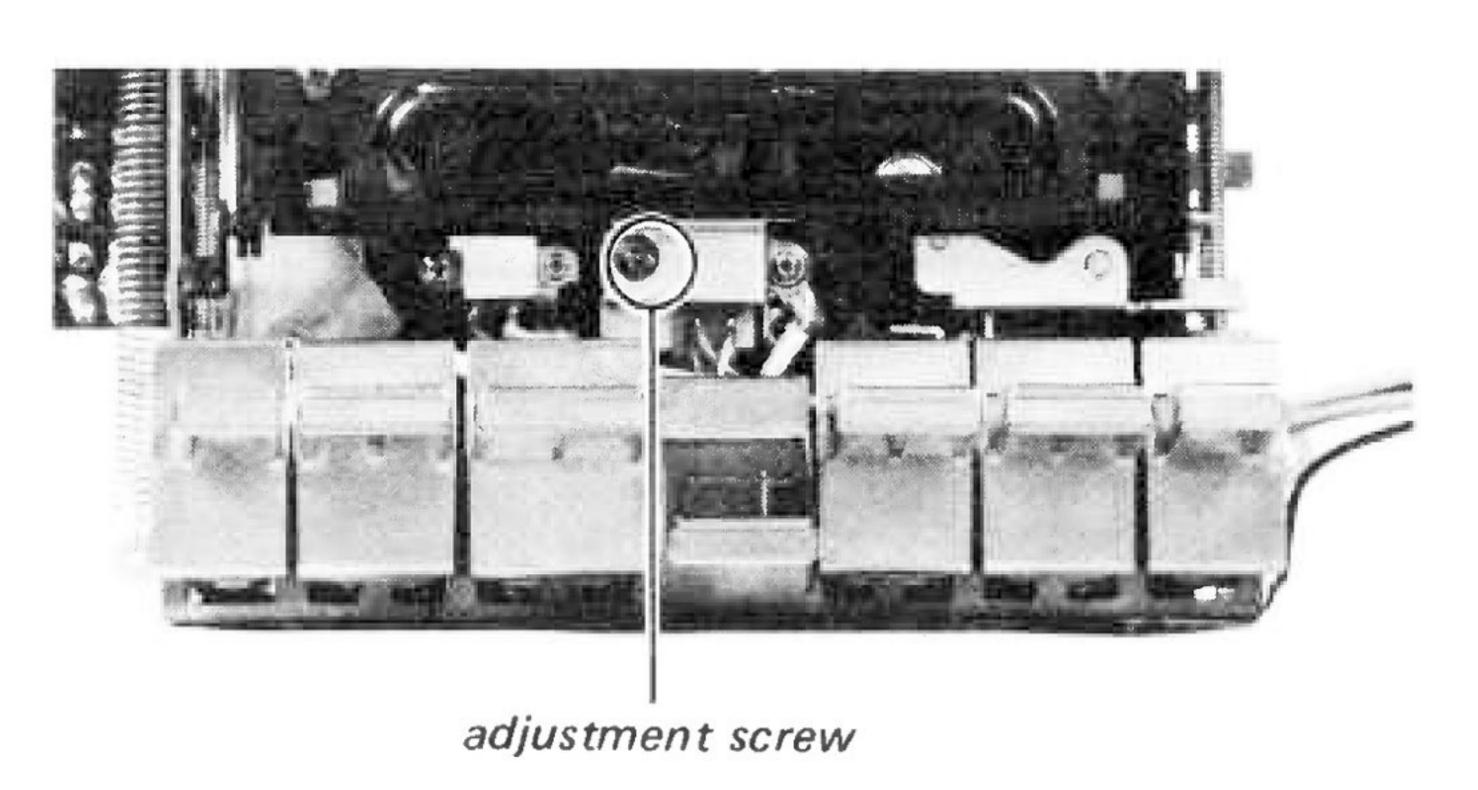


3. Mode: Playback





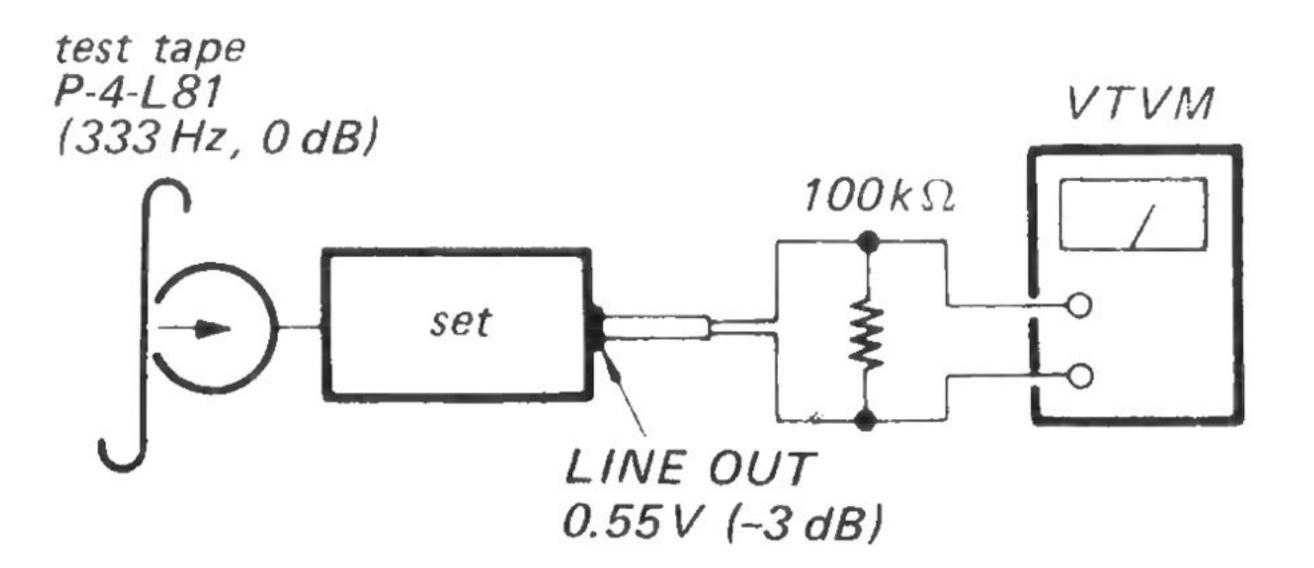
Adjustment Location:



Playback Level Adjustment

Procedure:

1. Mode: Playback



Adjust RV102 (L-CH) and RV202 (R-CH) to obtain 0.55 V (-3 dB) VTVM reading.

2. Assure that the LINE OUT level does not change when the mode is changed from playback to stop several times.

Specification:

LINE OUT level:

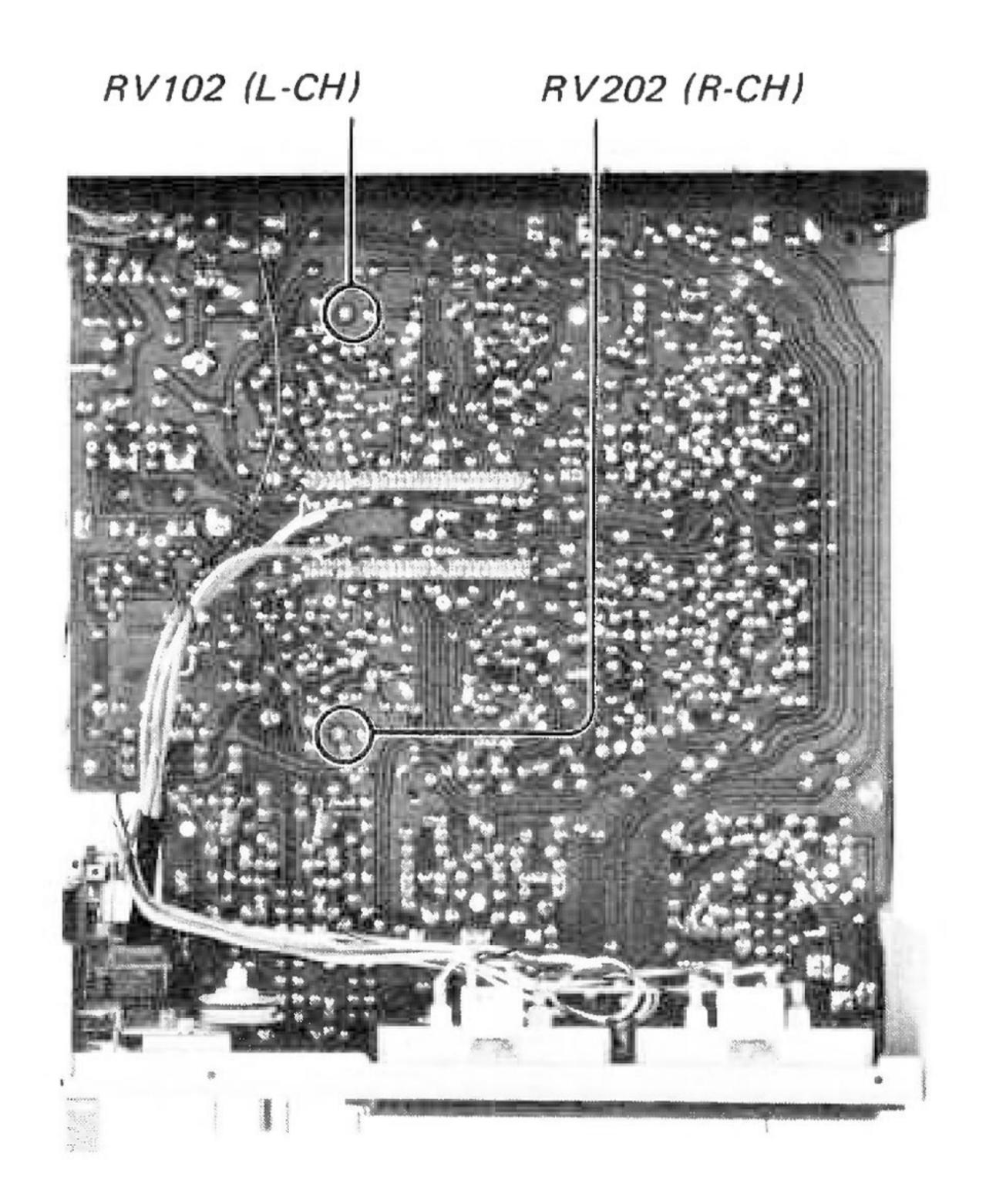
0.52 - 0.58 V

(-2.5 - -3.5 dB)

Level difference between channels:

less than 0.5 dB

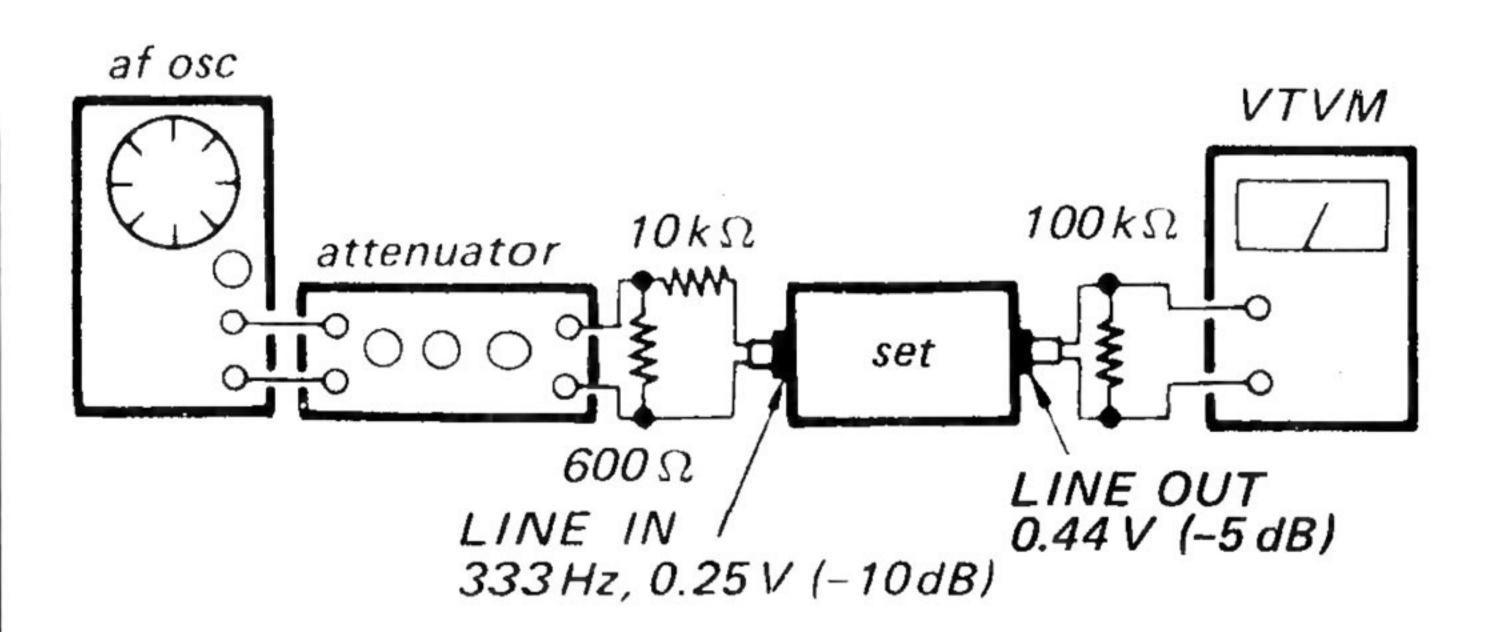
Adjustment Location:



VU Meter Calibration

Procedure:

1. Mode: Standard record (See page 10.)



2.

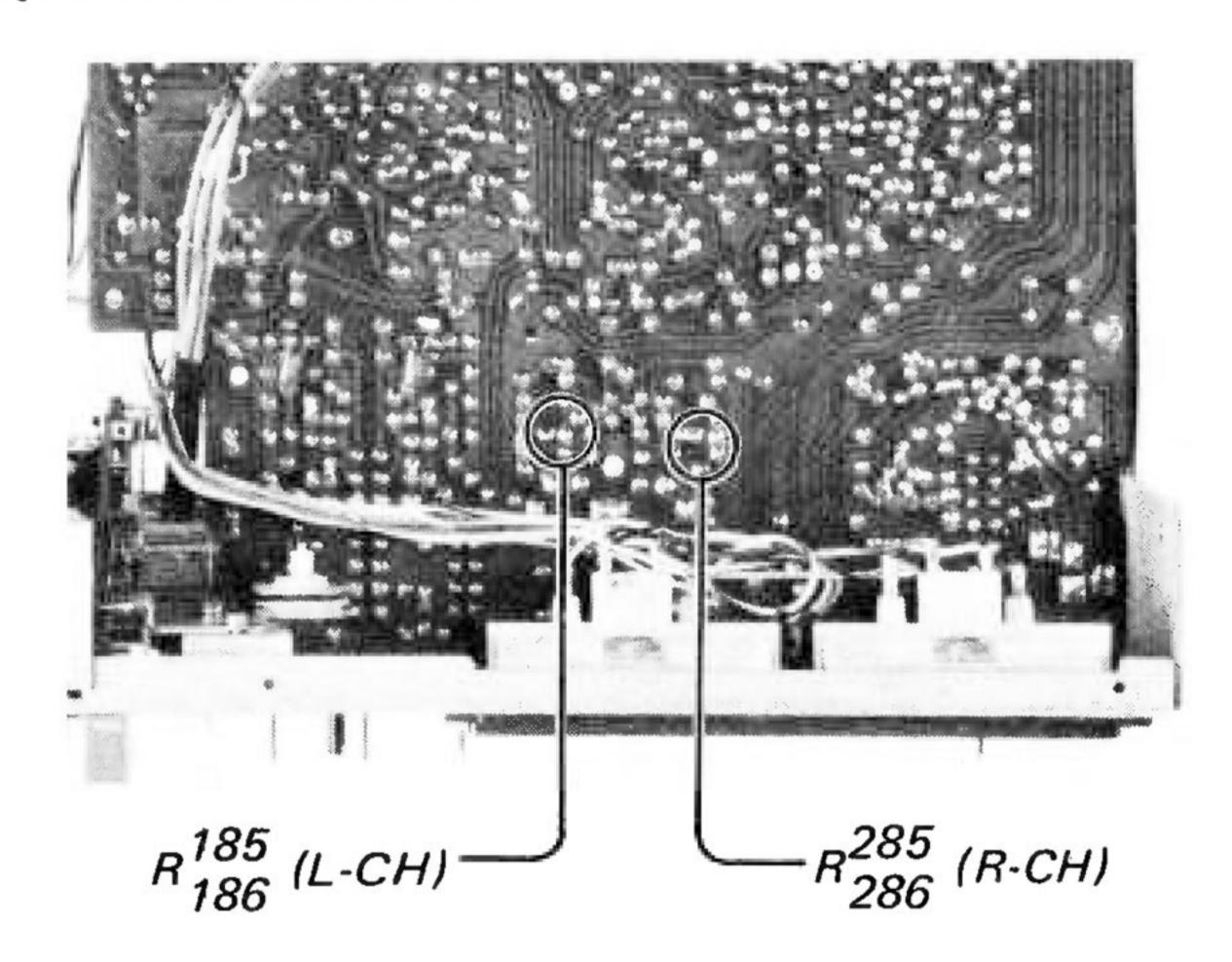
Adjust	VU meter reading: 0 VU
R ₁₈₆ (L-CH)	
R ²⁸⁵ ₂₈₆ (R-CH)	

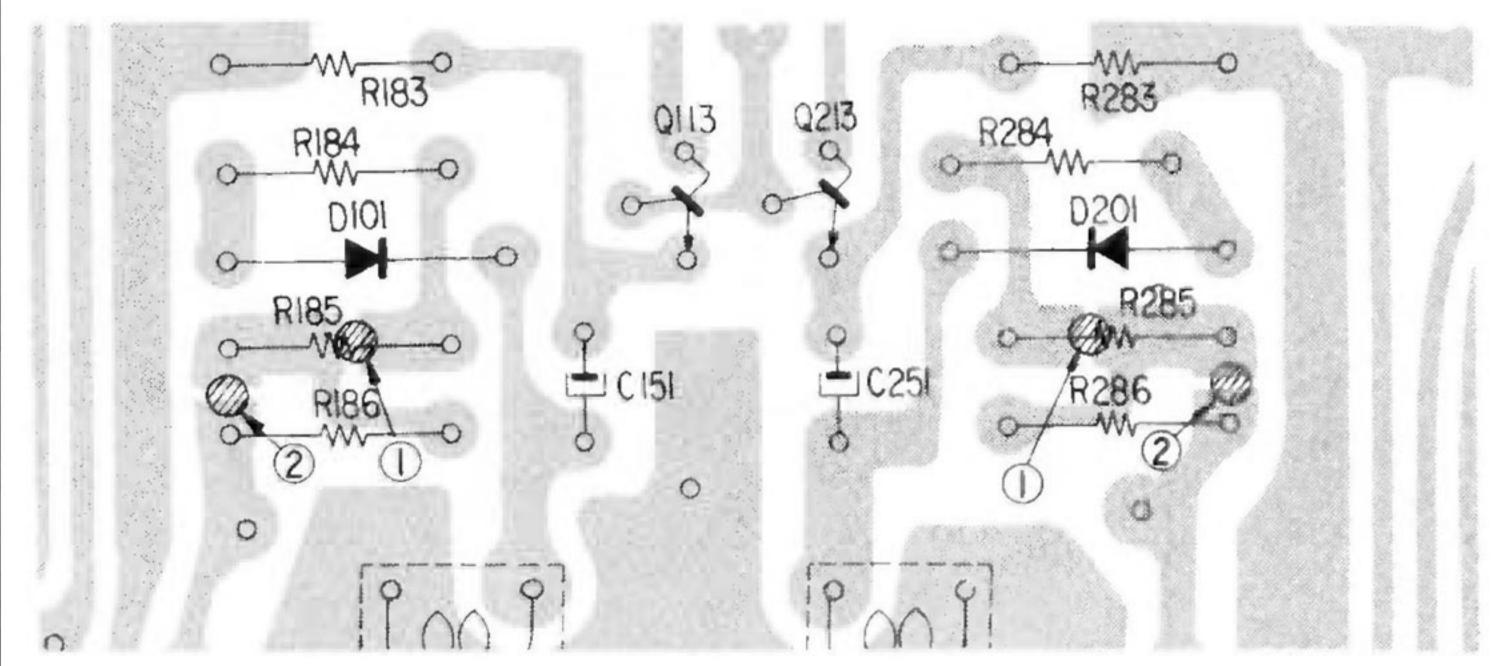
Adjust the pattern connection.

Specification:

When the LINE IN level is adjusted to make 0 VU indication, VTVM reading should be 0.44V (-5 dB).

Adjustment Location:



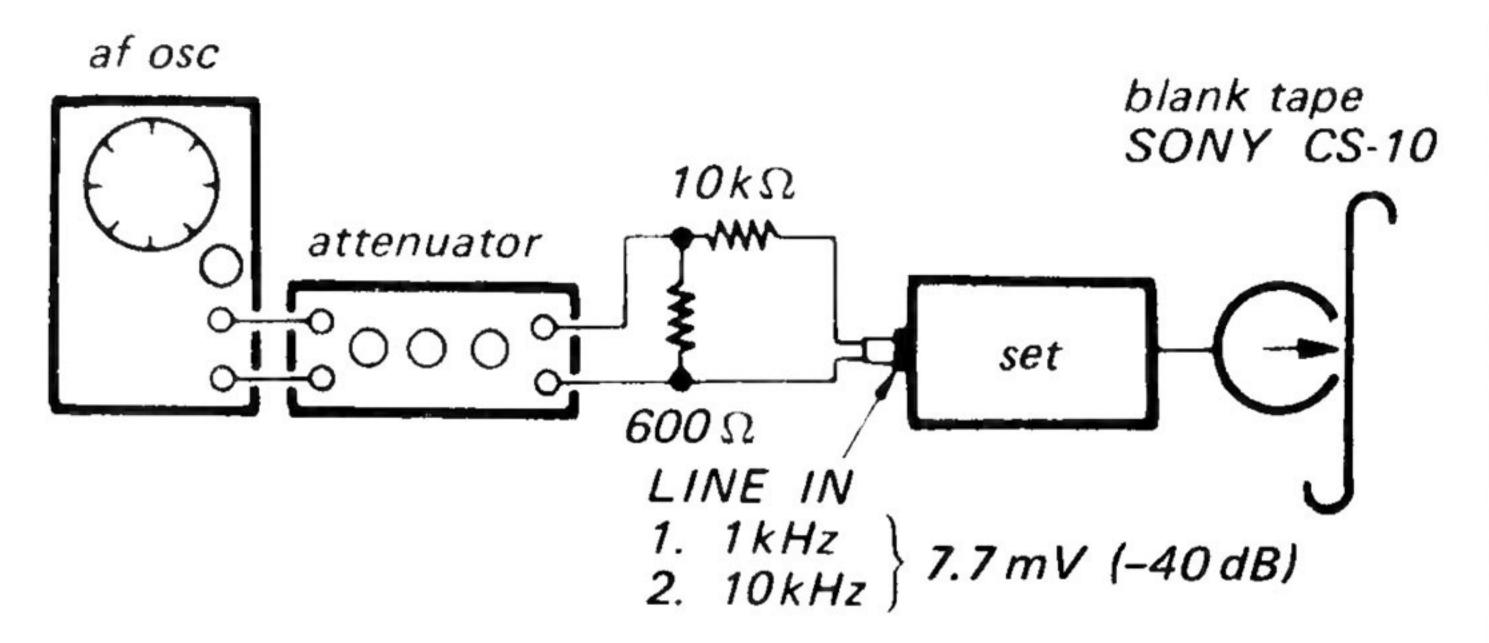


Pattern connection	Pointer deflection	
open	down	
1) or 2)		
(1) and (2)	up	

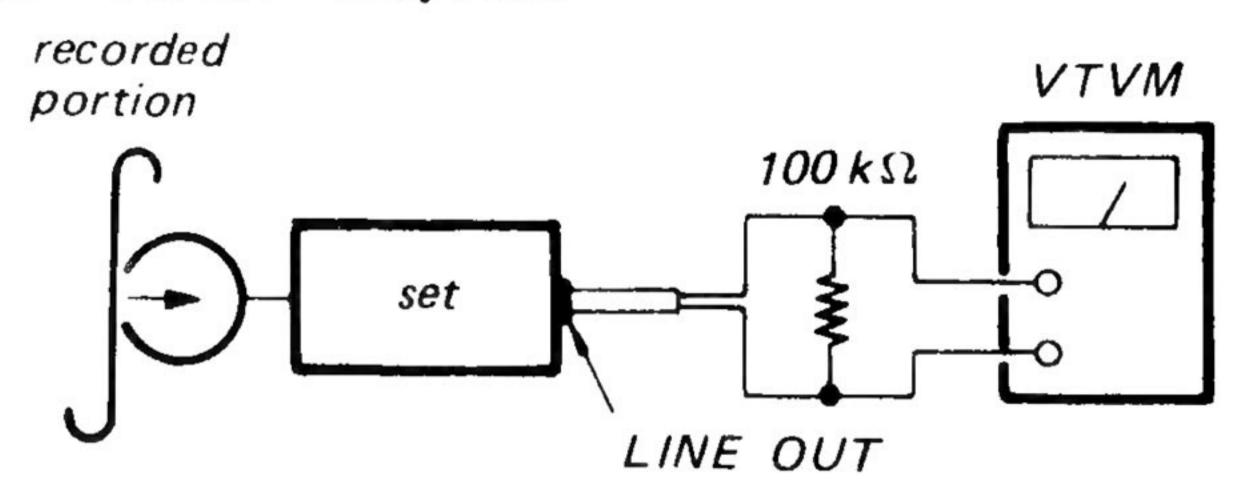
Record Bias Adjustment

Procedure:

1. Mode: Standard record (See page 10.)



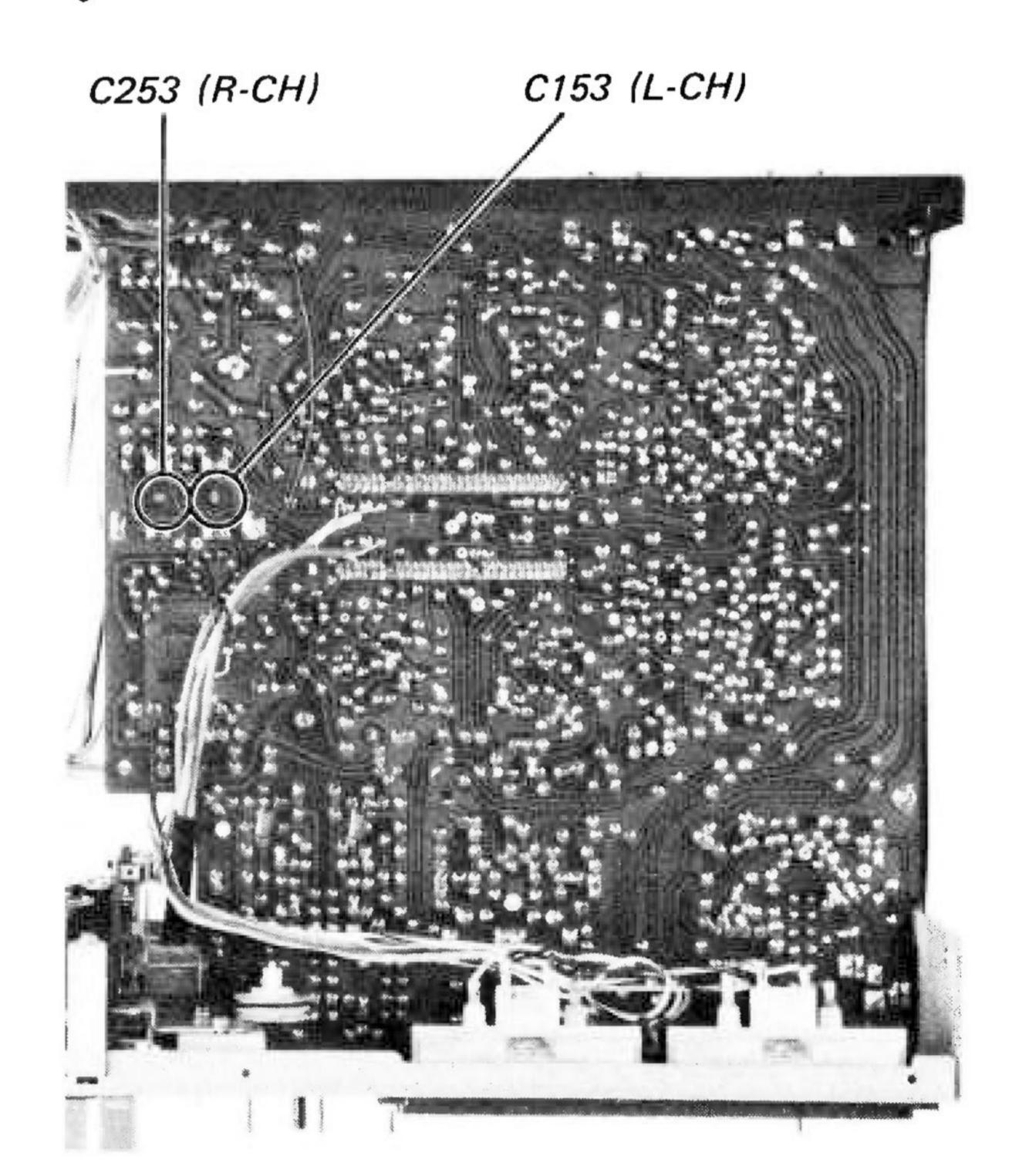
2. Mode: Playback



Adjust C153 (L-CH) and C253 (R-CH) to make 10 kHz and 1 kHz signal output levels equal.

Level difference between the two output levels: $0 dB \pm 1 dB$

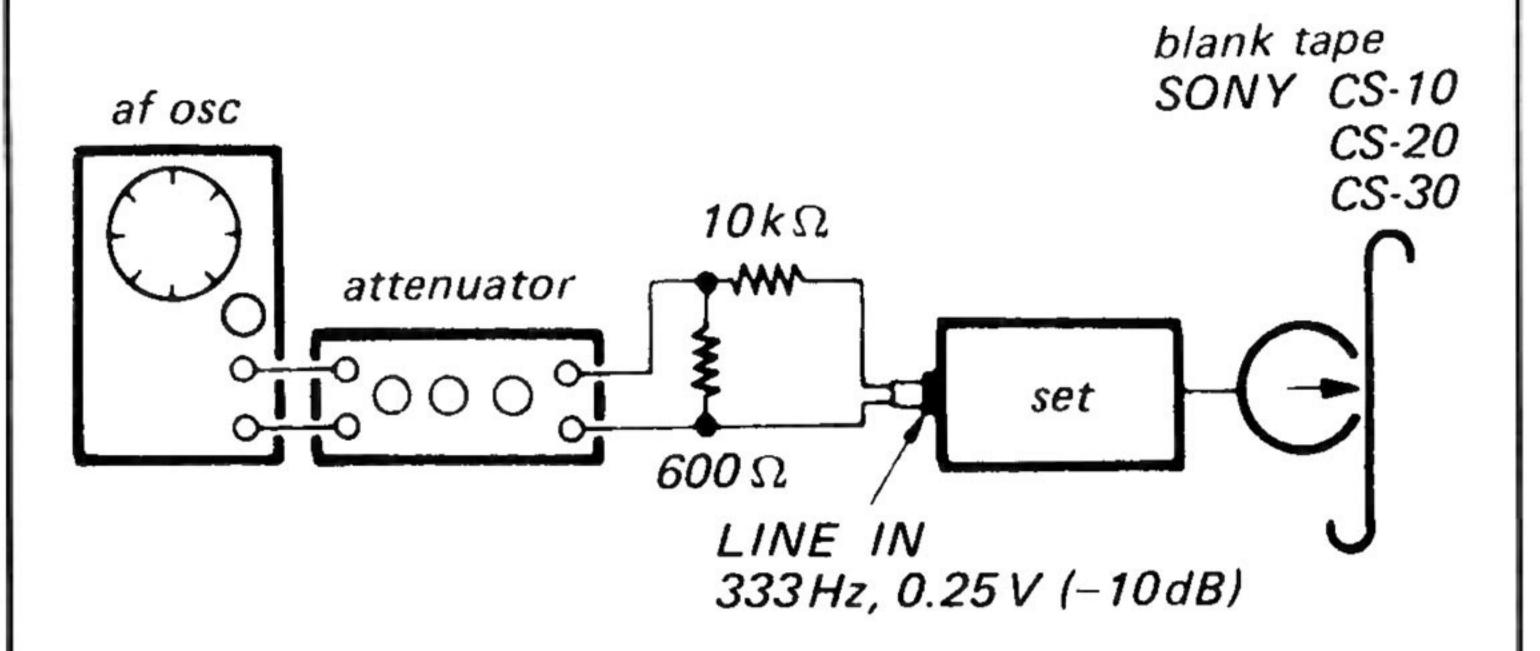
Adjustment Location:



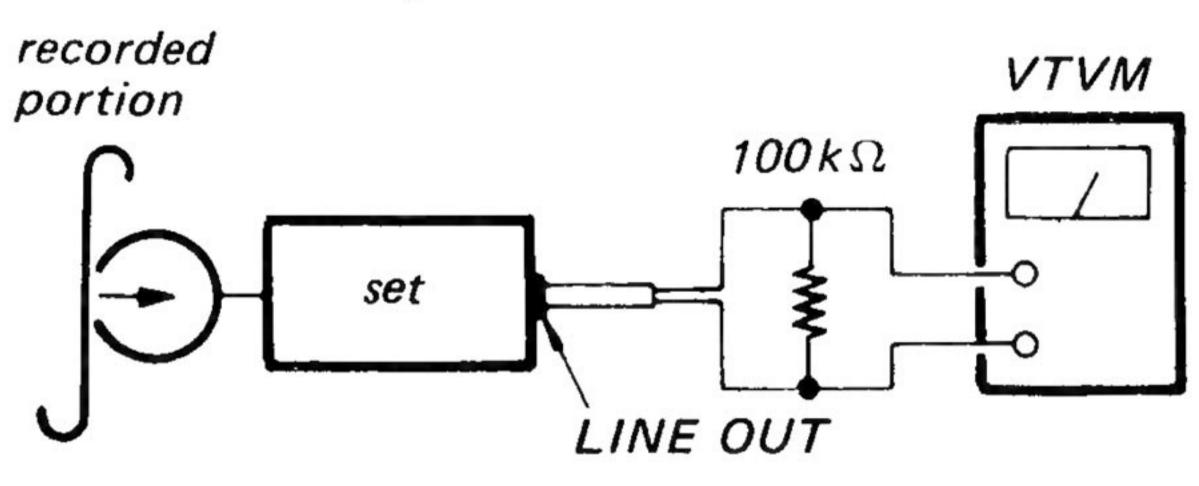
Record Level Adjustment

Procedure:

1. Mode: Standard record (See page 10.)



2. Mode: Playback



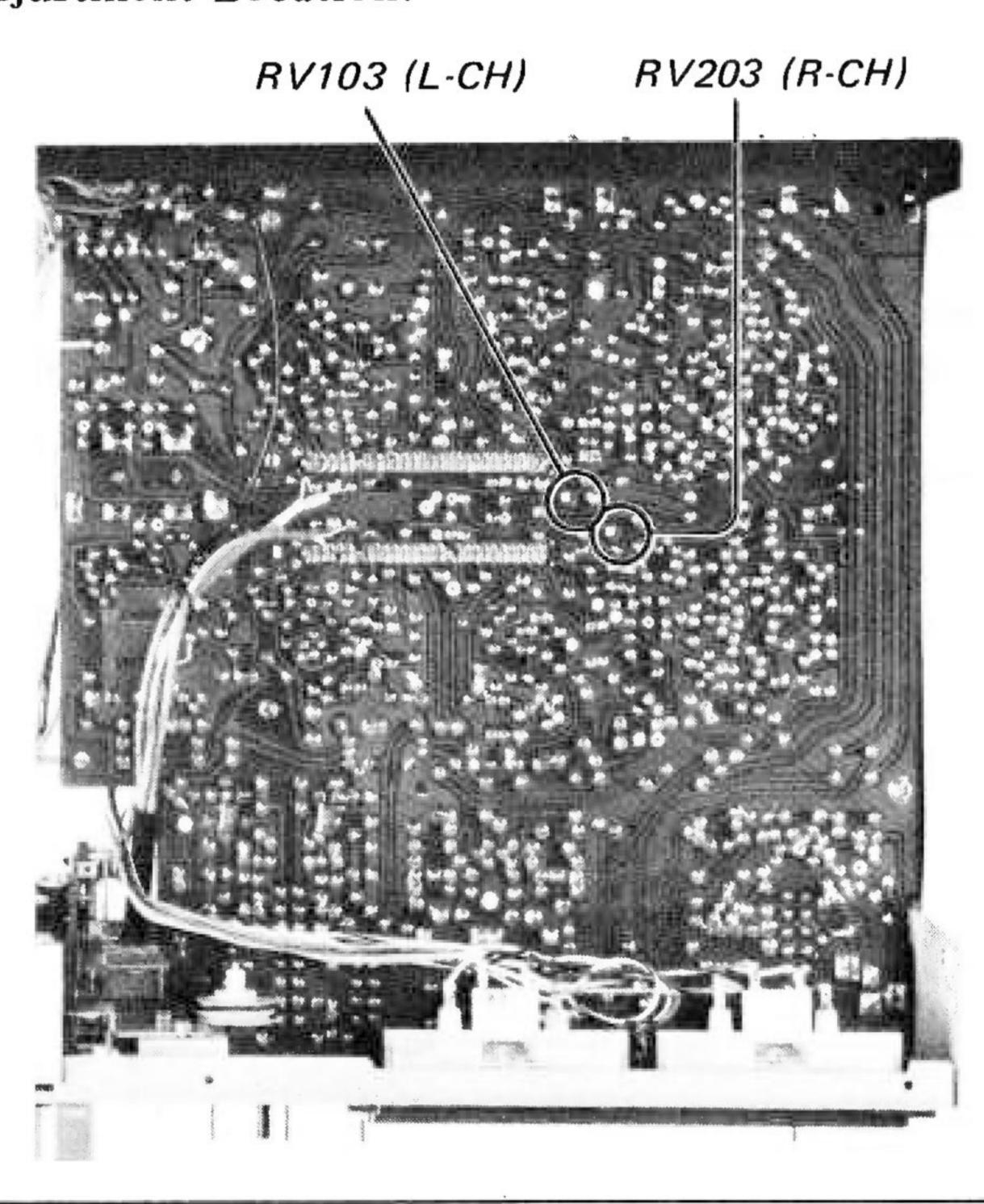
Adjust RV103 (L-CH) and RV203 (R-CH) to obtain 0.44 V (-5 dB) VTVM reading.

3. Change the blank tape to CS-20 and CS-30, and perform the same record and playback procedure. Measure LINE OUT level.

Specification:

SONY tape	LINE OUT level
CS-10	0.41-0.46V (-4.55.5 dB)
CS-20 CS-30	0.37-0.52 V (-3.5-6.5 dB)

Adjustment Location:



19 kHz Filter Adjustment

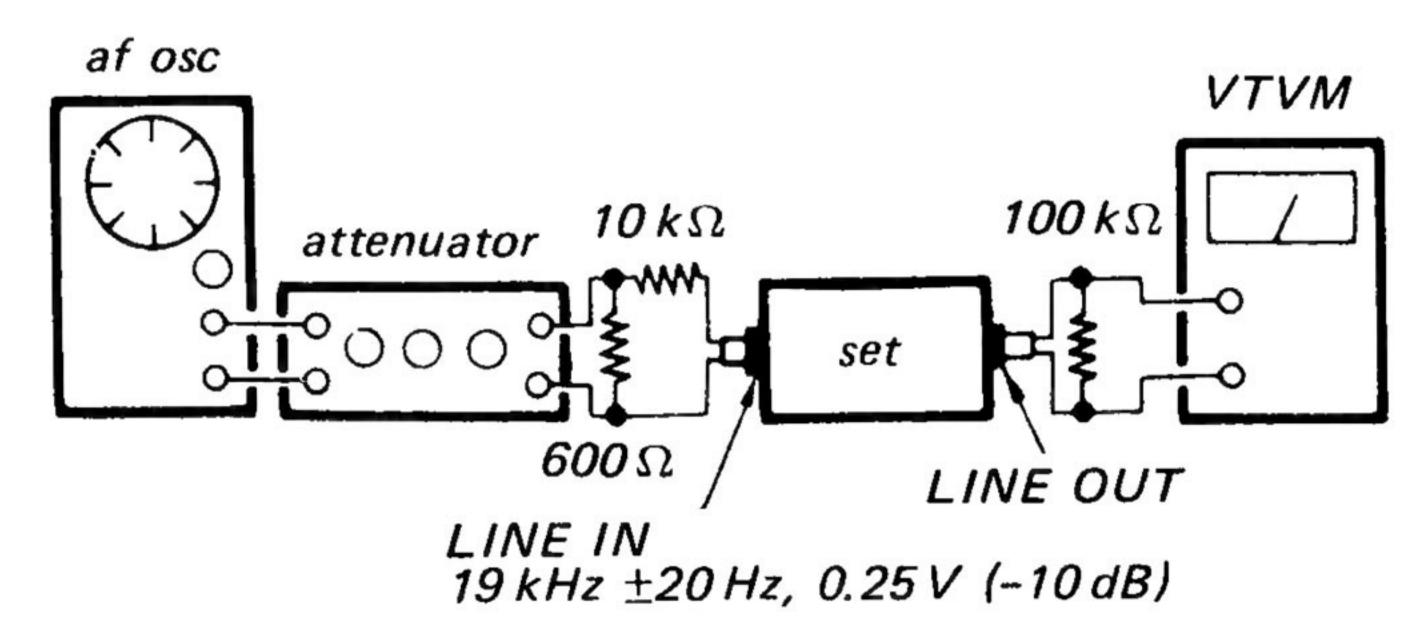
Procedure:

DOLBY NR switch:

ON

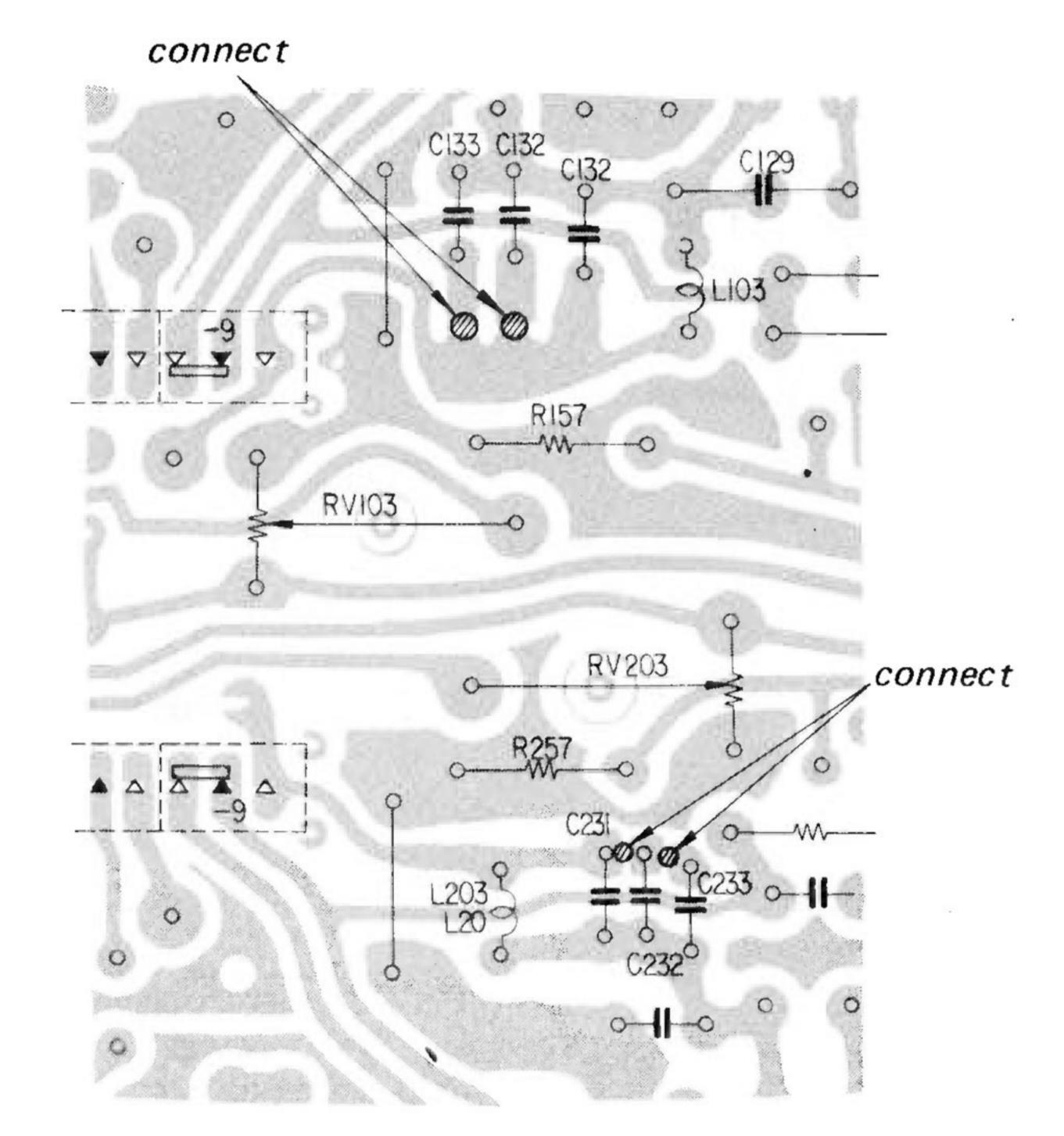
Mode:

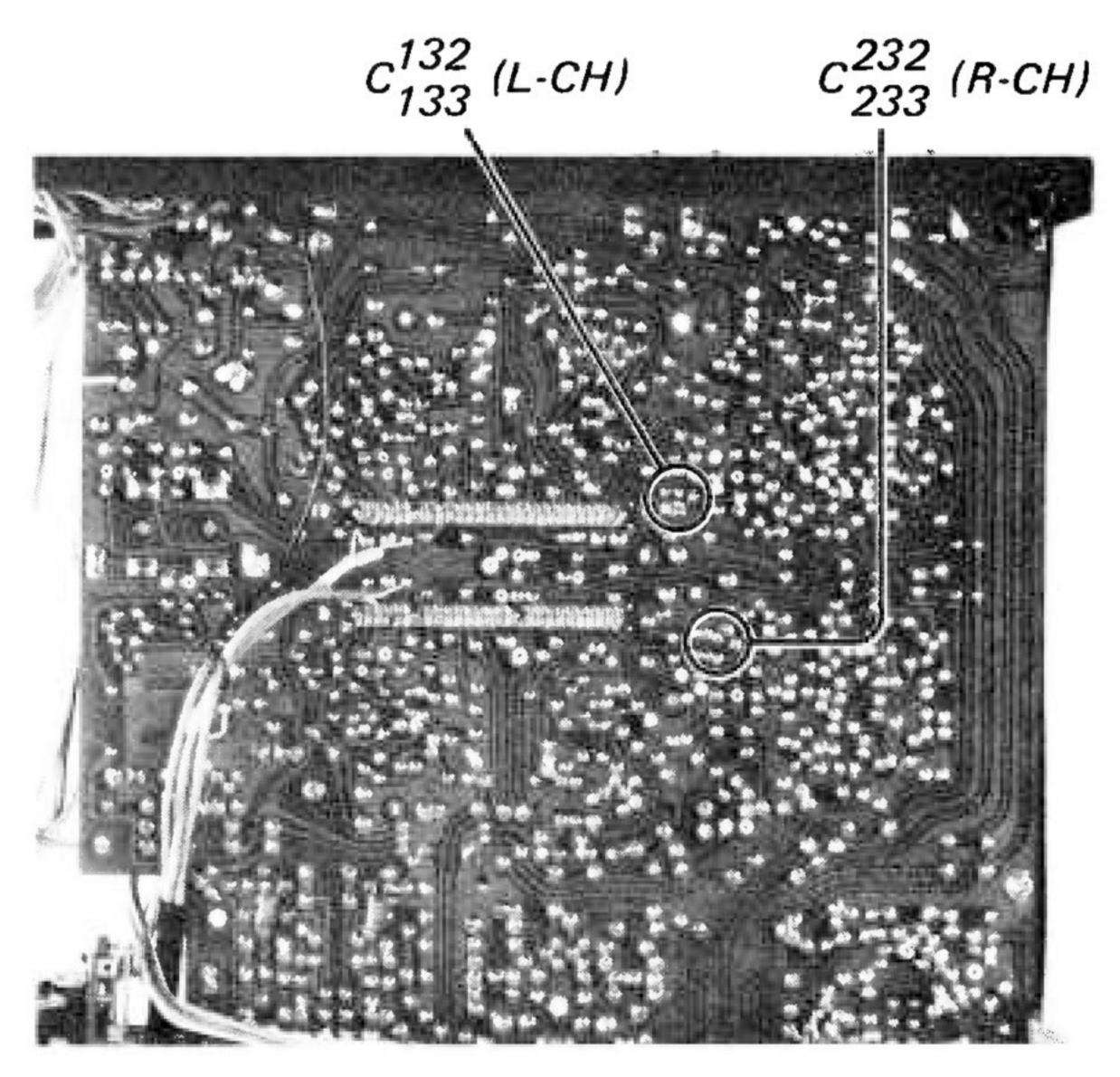
Standard record (See page 10.)



Adjust the pattern connection for a minimum reading on VTVM.

Adjustment Location:





SECTION 4 DIAGRAMS

Replacement Semiconductors

For replacement, use semiconductors except in ().

4-1. MOUNTING DIAGRAM

- Conductor Side -

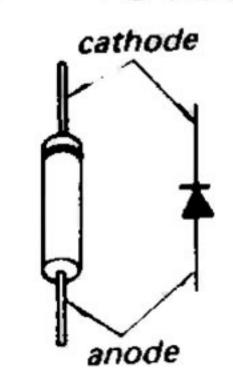
D101,201: 1T22A (1T22)

D102, 104 }: 1S1555 (1S2076)

D103, 203: 1T22A

D301, 302: 10E2

D303, 304) D308, 309 : 10E2 (10E1) D307, 601: 1S1555 (1T40)

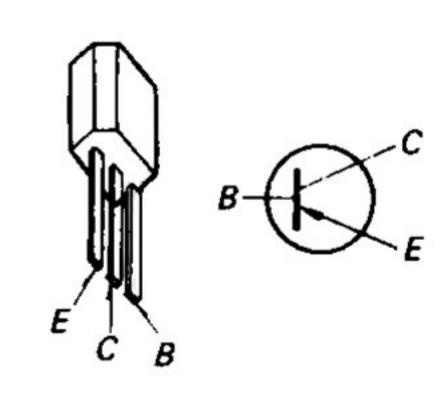


Q101-103, 105, 109 \\ Q201-203, 205, 209 \\ \\ \end{align*}: 2SC632A (2SC631A)

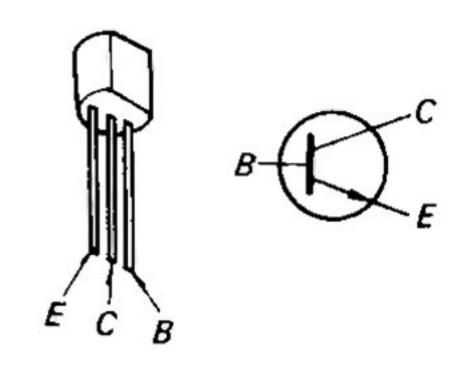
Q104, 106-108, 110-113)

Q204, 206-208, 210-213 }: 2SC634A (2SC633A)

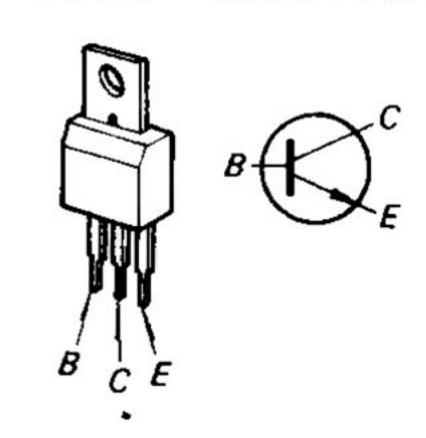
Q303, 601, 602



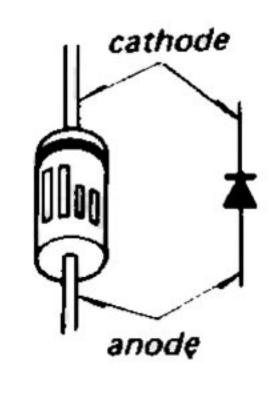
Q302: 2SC1475



Q301: 2SC1760 Q603: 2SC1761



D305: EQB01-21 (EQA01-21R)



D306: SLP24B

LED

anode _____cathode

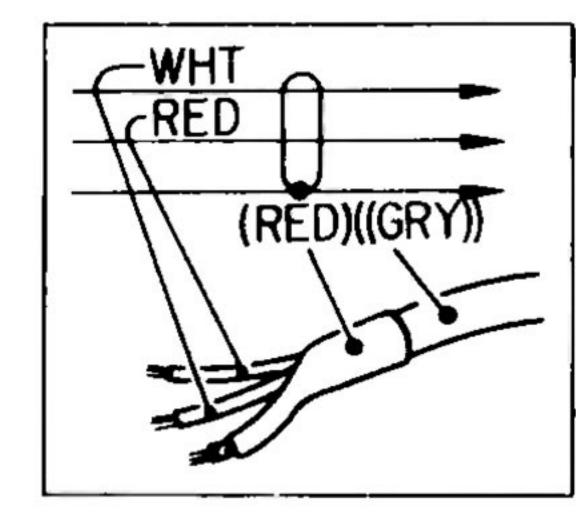
cathode

Note: • - : parts extracted from the component side.

• -: parts extracted from the conductor side.

• : part mounted on the conductor side.

Color code of sleeving over the end of the jacket.




• B+ pattern.

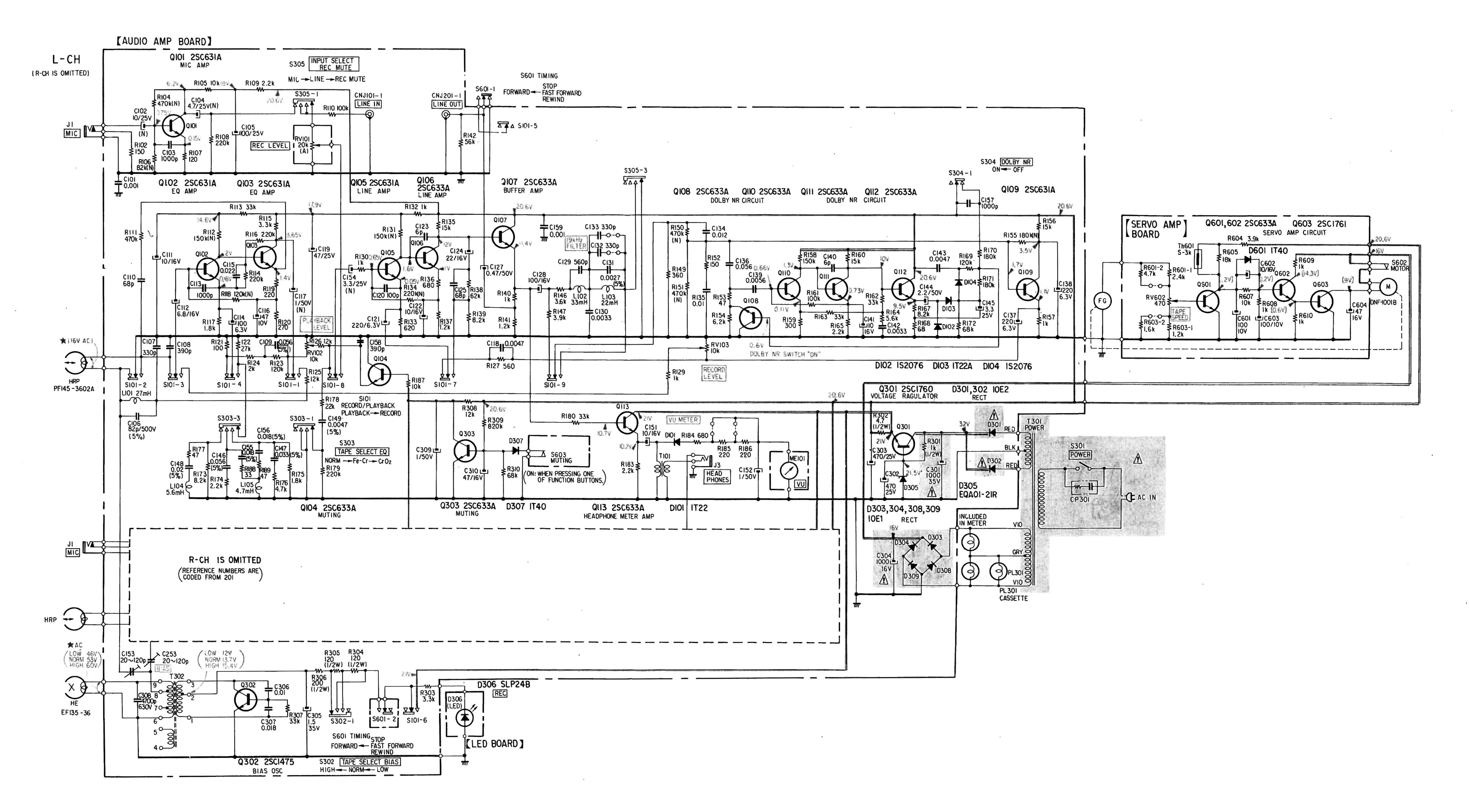
• Readings are taken under no-signal conditions with a VOM (20 $k\Omega/V$).

(): record mode []: playback mode

 AC voltage readings indicated by * in the bias oscillator circuit are taken with a VTVM.

: signal path



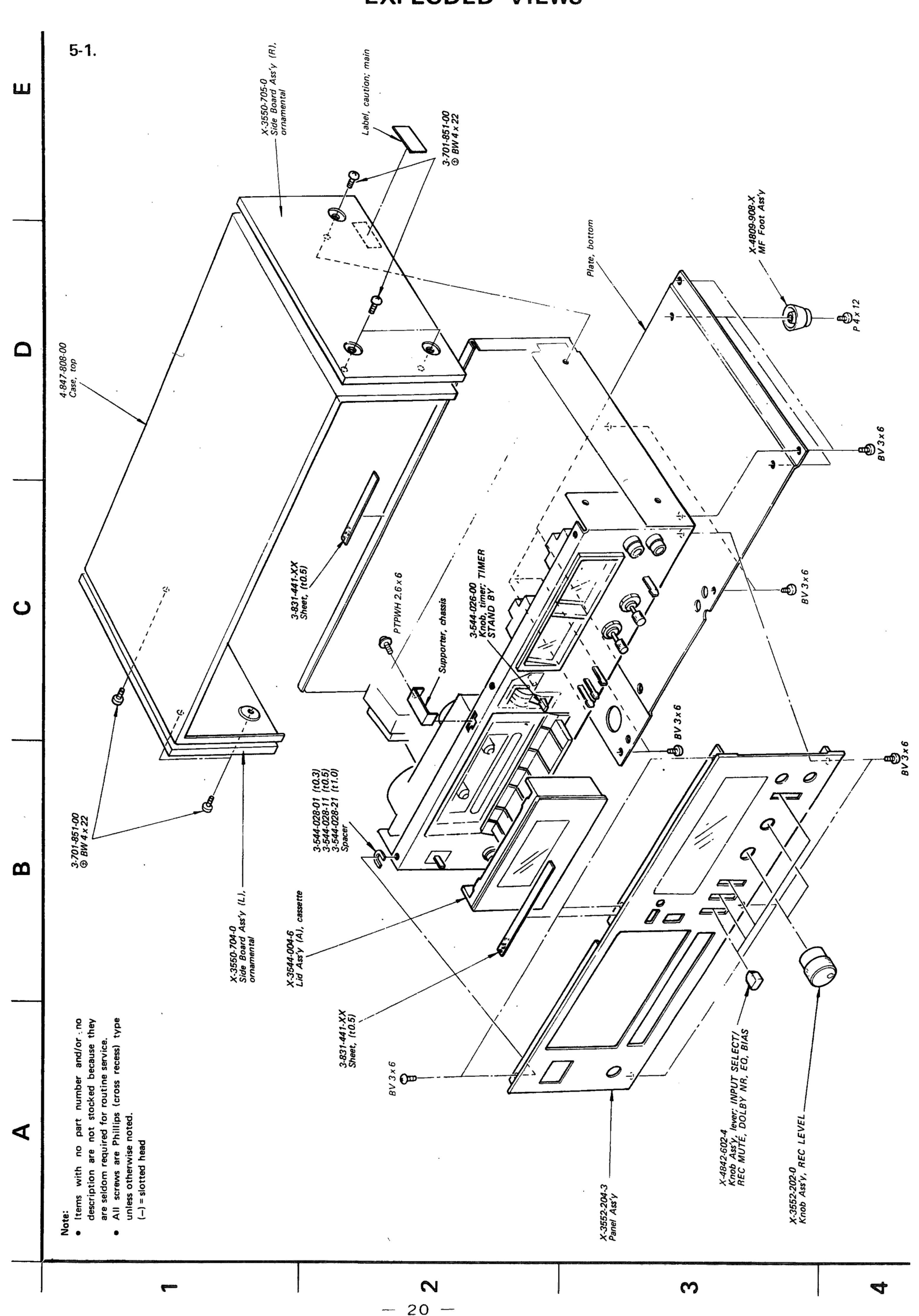


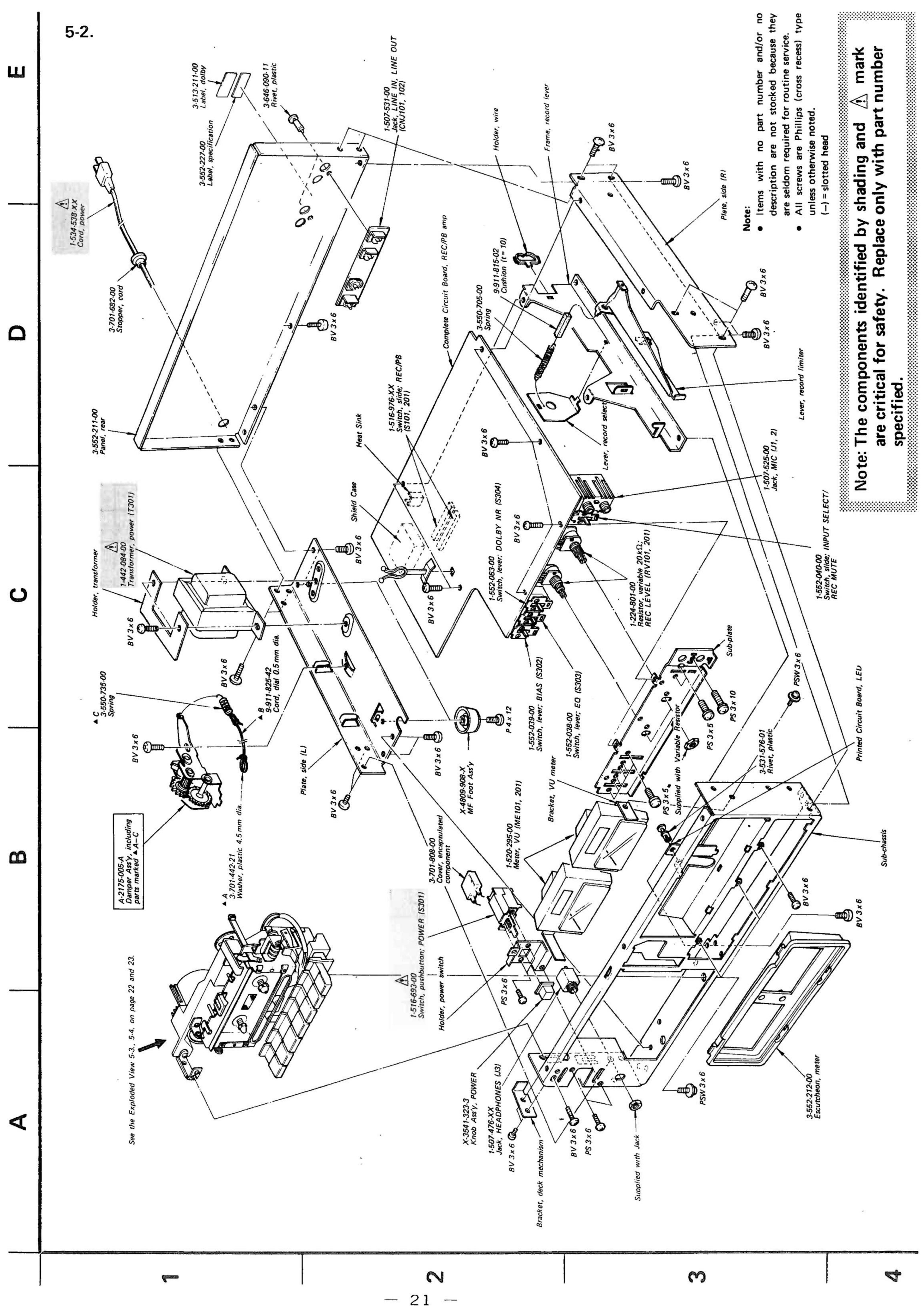
- Components for right channel have the same values as for left channel. Reference numbers are coded from 201.
- All capacitors are in μF unless otherwise noted. $pF = \mu \mu F$ 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted.
- $k\Omega = 1000\Omega$, $M\Omega = 1000 k\Omega$ Adjustable resistors have characteristic curve B, unless
- otherwise noted.
- (N): low-noise capacitor and resistor.
- 5% indicates component tolerance.
- : panel designation.
- : adjustment for repair.
- 블 : direct connection to points marked 블 on the chassis.
- Voltages are dc with respect to ground unless otherwise
- Readings are taken under no-signal conditions with a VOM $(20 k\Omega/V)$.
-): record mode
- : playback mode
- AC voltage readings indicated by * in the bias oscillator circuit are taken with a VTVM.
- Voltage variations may be noted due to normal production tolerances.
- Switch

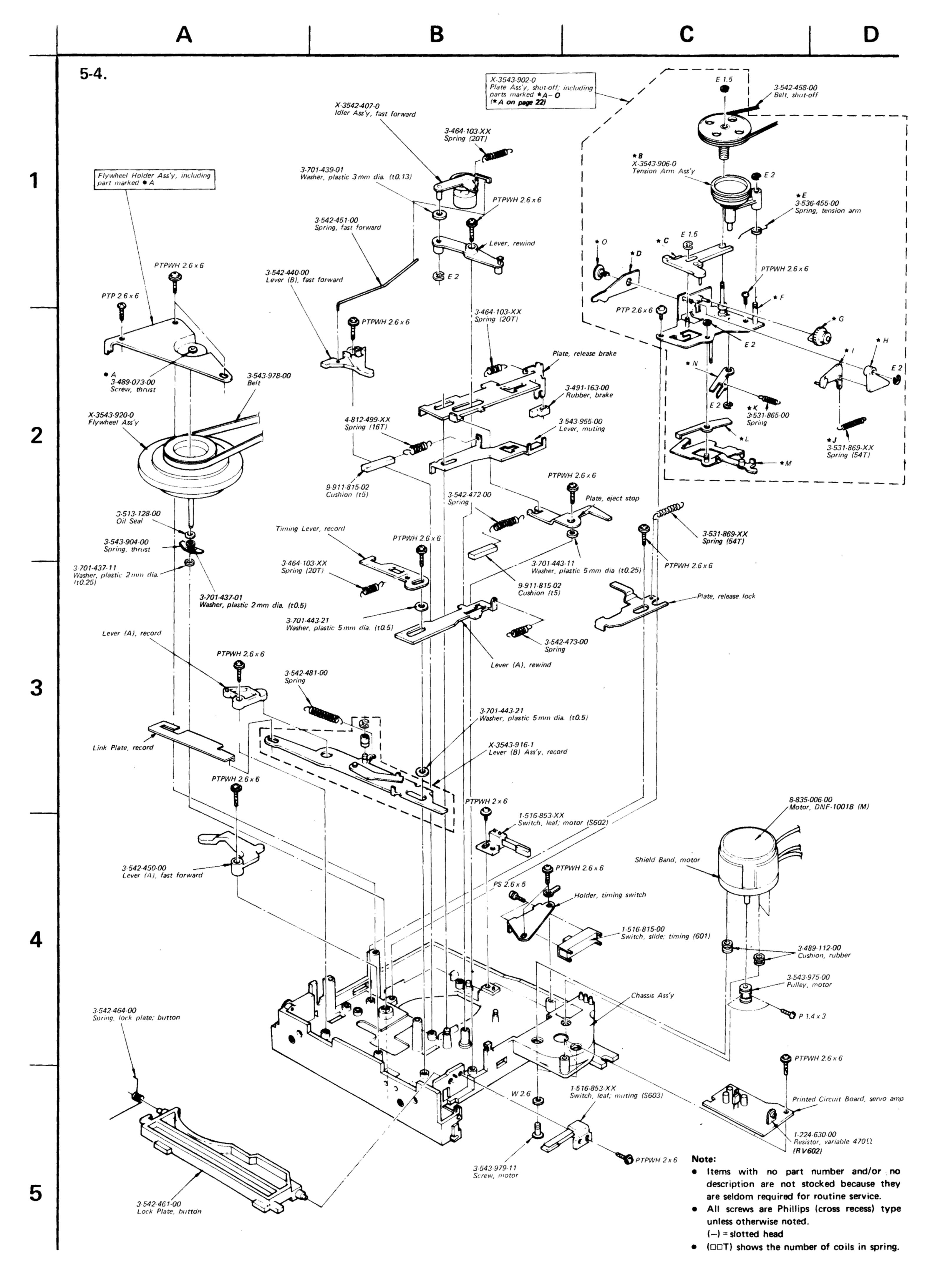
Ref. No.	Switch	Position
S101	RECORD/PLAYBACK (L-CH)	PLAYBACK
S201	RECORD/PLAYBACK (R-CH)	PLAYBACK
S301	POWER	OFF
S302	TAPE SELECT BIAS	LOW
S303	TAPE SELECT EQ	NORM
S304	DOLBY NR	OFF
S305	INPUT SELECT REC MUTE	MIC
S601	TIMING	STOP FAST FORWARD REWIND
S602	MOTOR	OFF
S603	MUTING	OFF

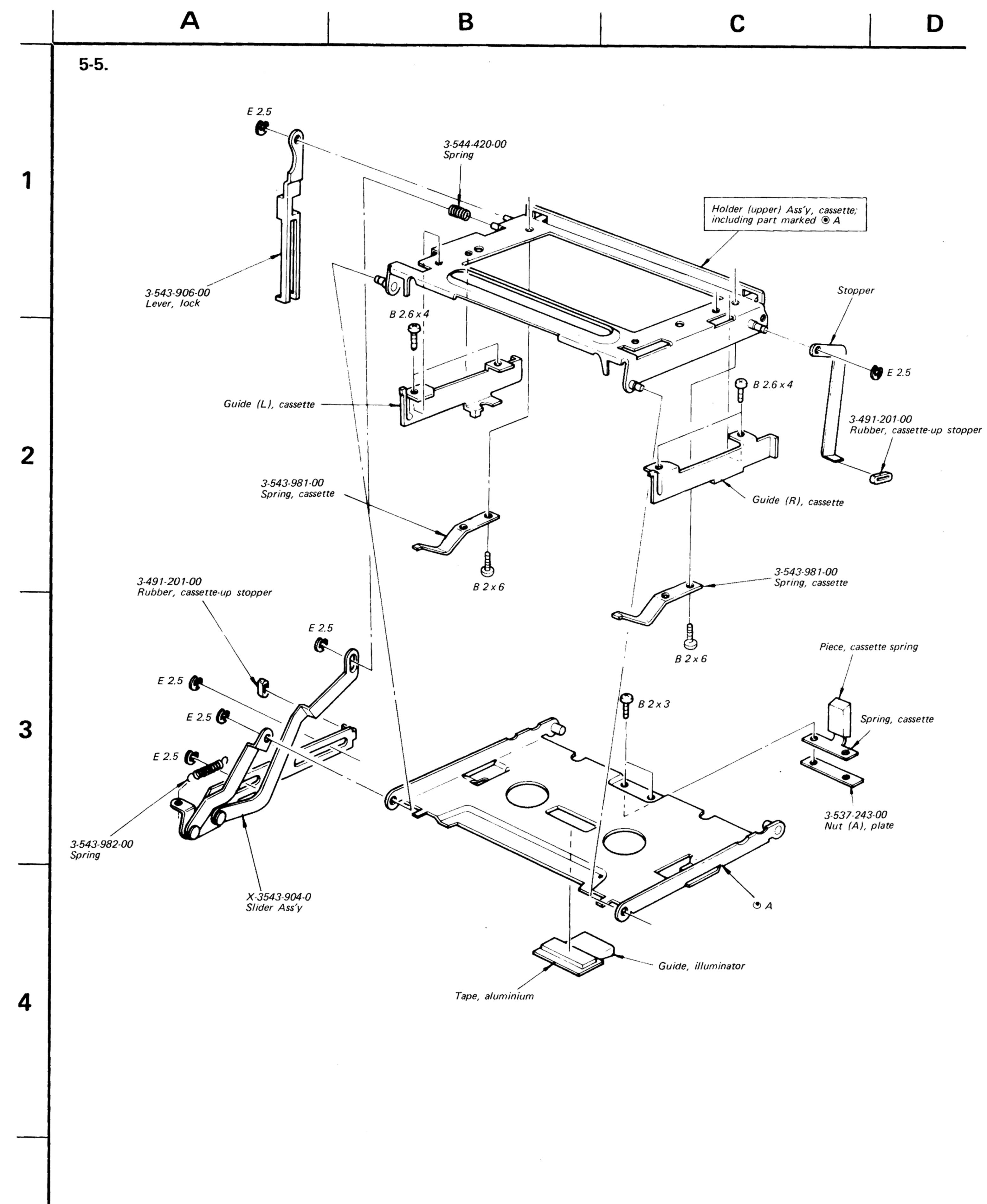
Note: The components identified by shading and A mark are critical for safety. Replace only with part number

SECTION 5 EXPLODED VIEWS









Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
 - (-) = slotted head

SECTION 6 ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	1	Descript	ion
	SEMICO	ONDUCTORS	L103,20	1-407-210-XX	Microin	ductor,	22 mH
			L104,20	1-407-203-XX	Microin	ductor,	5.6 mH
	Tr	ansistors	L105,20	1-407-202-XX	Microin	ductor,	4.7 mH
$\Rightarrow Q101-103$ $\Rightarrow Q201-203$		2SC632A		TRAI	NSFORMER	RS	
\Rightarrow Q104,204		2SC634A					
\Rightarrow Q105,205		2SC632A	T101,20	1-427-424-00	Output		
$\Rightarrow Q106-108$		2000011					
\Rightarrow Q206-208		2SC634A	T301	A 1-442-084-00	Power		
			T302	1-433-132-00	Osc		
\Rightarrow Q109,209		2SC632A					
\Rightarrow Q110-113		2SC634A					
\Rightarrow Q210-213'		23C034A		C A	DACITODS		
				CA	PACITORS		
Q301		2SC1760		All compositors are in	a uE and as	romio u	n 1000
Q302		2SC1475		All capacitors are in otherwise noted.	i μr and ce	ranne u	mess
\Rightarrow Q303		2SC634A		50WV or less are n	ot indicated	except	for
				electrolytics. pF = /	uμF, elect=	electrol	y tic
\Rightarrow Q601,602		2SC634A					
Q603		2SC1761	C101	1-161-323-11	0.001		
			C102,20	2 1-121-748-11	10	25 V	elect
		Diodes	C103,20	3 1-102-074-11	0.001		
			C104,20	4 1-121-915-11	4.7	25 V	elect
\Rightarrow D101,201		1T22A	C105,20	5 1-121-416-11	100	25 V	elect
\Rightarrow D102,202		1S1555					
D103,203		1T22A	C106,20	6 1-107-037-11	82p	$500\mathrm{V}$	silvered mica
\Rightarrow D104,204		1S1555	C107	1-161-317-11	330p		
			C108,20	8 1-161-318-11	390p		
D301,302		10E2	C109,20	9 1-108-597-12	0.056		mylar
⇒ D303,304 /	7	10E2	C110,21	0 1-101-889-11	68p		
\Rightarrow D305		EQB01-21					
D306		SLP24B	C111,21	1 1-121-651-11	10	16 V	elect
⇒D307		1S1555	C112,21	2 1-131-198-11	6.8	16 V	tantalum
⇒ D308,309 <u>/</u>		10E2	C113,21		0.001		
\Rightarrow D601		1S1555	C114,21		100	6.3 V	elect
			C115,21	5 1-108-242-12	0.022		mylar
	Th	ermistor					
TT1 (O 1	1 000 200 00	C. O.T.	C116,21		47	10 V	elect
Th601	1-800-200-00	S-3K	C117,21		1	50 V	elect
			C118,21		0.0047		
		2011.0	C119,21		47	25 V	elect
		COILS	C120,22	0 1-102-106-11	100 p		
L101,201	1-407-211-XX	Microinductor, 27 mH	C121,22	1 1-121-419-11	220	6.3 V	elect
L102,202	1-407-212-XX	Microinductor, 33 mH	C122,22		10	16 V	elect
	50 NO.5	terchangeable replacements ma	y				

Note: The components identified by shading and <u>A</u> mark are critical for safety. Replace only with part number specified.

be substituted for parts specified in the diagrams.

Ref. No	o. Part No.		Descripti	on	Ref. No
C123,2	23 1-102-943-1	1 6p			C305
C124,2	24 1-121-479-1	1 22	16 V	elect	C306
C125,2	25 1-101-889-1	1 68p			C307
C127,2	27 1-121-726-1	0.47	50 V	elect	C308
C128,2	28 1-121-415-1	1 100	16 V	elect	C309
+					C310
C129,2	29 1-161-320-1	1 560 p			
C130,2	230 1-102-123-1	0.003	33		C601
C131,2	1-108-565-1	2 0.002	27	mylar	C602
C132,2	232 1-102-112-1	1 220 n			C603
C133,2	233	.1 330p			C604
C134,2	234 1-108-357-1	2 0.012	2	mylar	
C135,2				mylar	
C136,2			5	mylar	
C137,2		0.000		iiiy iui	
C138,2	1 1 1 1 1 1 1 1	.1 220	6.3 V	elect	
C139,2			56		
C14?,2		1			
_141,2			16 V	elect	R301
C142,2					R302
C143,2	1-102-125-1	0.004	17		R304,3
C144,2	244 1-121-986-1	1 2.2	50 V	elect	R306
C145,2			25 V	elect	RV101.
C146,2				mylar	RV101,
C147,2				mylar	RV102,
C148,2		220	,	mylar	105,
0110,2	1 100 500 1	2 0.02		my rai	RV602
C149,2	249 1-108-571-1	2 0.004	17	mylar	1002
C151,2				my rai	
C152,2			50V	elect	
C153,2					
C154,2			25 V	elect	S101,20
C155,2	255	2 0.016			S301
C155,2 C156,2	1-108-585-1 256	0.018	•	mylar	S302
C158,2	258 1-102-113-1	1 390p			S303
C159	1-102-074-1	0.001	L		S304
					S305
C201	1-102-074-1	0.00	L		
C207	1-102-112-1	1 330p			0.01
C301	↑ 1-123-388-1	1 1000	35 V	elect	S601 S602,60
C302,3			25 V	elect	~ 0 0 2,0 0
C304	1-121-245-1			elect	
000.	7.7 1 121 210 1	1000	10,	01000	

Note: The components identified by shading and 🛕 mark are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	t No. Descrip		
C305	1-131-216-11	1.5	35 V	tantalum
C306	1-108-579-12	0.01		mylar
C307	1-108-585-12	0.018		mylar
C308	1-129-710-11	0.0047	630V	
C309	1-121-391-11	1	50 V	elect
C310	1-121-970-11	47	16 V	elect
C601	1-121-414-11	100	10V	elect
C602	1-121-651-11	10	$16\mathrm{V}$	elect
C603	1-121-414-11	100	10V	elect
C604	1-121-409-11	47	16 V	elect

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.

Refer to the list on the last page for their part numbers.

R301	1-244-873-11	1 k	½ W	carbon
R302	1-202-517-11	4.7	$\frac{1}{2}$ W	composition
R304,305	1-202-551-11	120	$\frac{1}{2}$ W	composition
R306	1-202-556-11	200	$\frac{1}{2}$ W	composition
RV101,201 RV102,202 RV103,203	1-224-801-00 1-224-645-XX	20 k, vari		EC LEVEL
RV602	1-224-630-00	470, adju	stable	

SWITCHES

S101,201	1-514-976-XX	Slide, record/playback
S301	1-516-693-00	Pushbutton, POWER
S302	1-552-039-00	Lever, BIAS
S303	1-552-038-00	Lever, EQ
S304	1-552-063-00	Lever, DOLBY NR
S305	1-552-040-00	Lever, INPUT SELECT/
		REC MUTE
	•	
S601	1-516-815-00	Lever, timing
S602,603	1-516-853-XX	Leaf, motor, muting

MISCELLANEOUS

	CNJ101,102	1-507-531-00	Jack, LINE IN, LINE OUT
	CP301 A	1-231-326-00	Encapsulated Component
	HE	8-825-506-00	Head, erase; EF135-36
	HRP	8-825-584-00	Head, record/playback; PF145-3602A
	J1,2	1-507-525-00	Jack, MIC
	J3	1-507-476-XX	Jack, HEADPHONES
	M	8-835-006-00	Motor, DNF-1001B
-	ME101,201	1-520-295-00	Meter, VU
	PL301	1-518-115-XX	Lamp, pilot; 6V 35 mA
		1-518-273-00	Lamp, VU meter
	A	1-534-538-XX	Cord, power

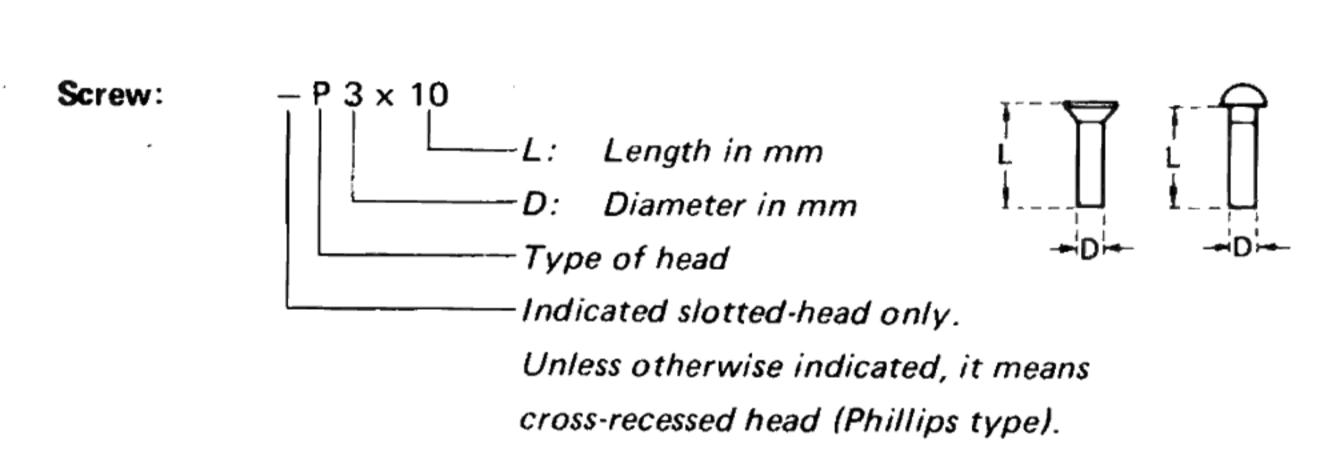
	ACCESSORIES AND PACKING MATERIALS					
	Part No.	Description				
	X-3701-105-0	Tips Ass'y, head cleaning				
	1-534-049-31	Cord, connection; RK-74H				
	3-429-126-00	Bag, plastic; set				
	3-541-250-00	Sticker, loading				
	3-550-739-00	Cushion, upper				
	3-550-740-00	Cushion, lower				
	3-552-237-00	Carton				
	3-701-630-00	Bag, plastic; instruction manual				
	3-770-218-21	Manual, instruction				
	3-793-828-11	Card, caution; cassette				
1						

Note: The components identified by shading and 🛕 mark are critical for safety. Replace only with part number specified.

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10 k	1-244-697-11	100 k	1-244-721-11	1.0M	1-244-745-11
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11	11 k	1-244-698-11	110 k	1-244-722-11	1.1M	1-244-746-11
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12 k	1-244-699-11	120 k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13 k	1-244-700-11	130 k	1-244-724-11	1.3M	1-244-748-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15 k	1-244-701-11	150 k	1-244-725-11	1.5M	1-244-749-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6k	1-244-678-11	16 k	1-244-702-11	160 k	1-244-726-11	1.6M	1-244-750-11
1.8	1-244-607-11		1-244-631-11				1-244-679-11				1-244-737-11		
2.0			1-244-632-11				1-244-680-11		1-244-704-11	ľ		i	!
1	1-244-609-11		1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22 k	1-244-705-11	220 k	1-244-729-11	2.2M	1-244-753-11
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24 k	1-244-706-11	240 k	1-244-730-11	2.4M	1-244-754-11
		.=		000		0.51	1 044 000 11	05.1	1 044 505 11	0701	1 044 701 11	0.734	1 044 755 11
	1-244-611-11	'	1-244-635-11		·	ľ		ļ.	1-244-707-11				1
1	1-244-612-11		1-244-636-11			[ľ	1-244-708-11	ll l			i
3.3	1-244-613-11	33	1-244-637-11			li						ì	1-244-757-11
3.6	1-244-614-11	36	1-244-638-11	360	1-244-662-11	3.6k	1-244-686-11	36 k	1-244-710-11	360 k	1-244-734-11	3.6M	1-244-758-11
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9k	1-244-687-11	39 k	1-244-711-11	390 k	1-244-735-11	3.9M	1-244-759-11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3 k	.1-244-688-11	43 k	1-244-712-11	430 k	1-244-736-11	4.3M	1-244-760-11
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7 k	1-244-689-11	47 k	1-244-713-11	470 k	1-244-737-11	4.7M	1-244-761-11
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1 k	1-244-690-11	51 k	1-244-714-11	510 k	1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11	56 k	1-244-715-11	560 k	1-244-739-11		
6.2	1-244-620-11	62	1-244-644-11	620	1-244-668-11	6.2k	1-244-692-11	62 k	1-244-716-11	620 k	1-244-740-11		
	1 044 001 11		1 044 645 11	600	1 044 000 11	C 01	1 044 002 11	60.1	1 044 717 11	6001	1 044 741 11		
6.8			1-244-645-11			1		lj.	1-244-717-11				
7.5			1-244-646-11			li .		1.	1-244-718-11			ĮĮ.	
8.2									1-244-719-11				
9.1	1-244-624-11	91	1-244-648-11	910	1-244-672-11	9.1k	1-244-696-11	91 k	1-244-720-11	910 k	1-244-744-11		

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
		SCREWS	
P	€	pan-head screw	binding-head (B) screw for replacement
PWH	1	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	}	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	- The second	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	(round-head screw	binding-head (B) screw for replacement
K	Þ	flat-countersunk-head screw	
RK	€ □	oval-countersunk-head screw	
В	€	binding-head screw	
Т	#	truss-head screw	binding-head (B) screw for replacement
F	13	flat-fillister-head screw	
RF	₽	fillister-head screw	
BV	(=)	braizer-head screw	

Nut, Washer, Retaining ring:	
N 3	Diameter of usable screw or shaft
L	Reference designation

Reference Designation Shape		Description	Remarks
	<u> </u>	SELF-TAPPING SCRE	WS
TA		self-tapping screw	ex: TA, P3 x 10
PTP	1	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
sc	£	set screw	
SC	⊚ €□	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
N		nut	
		WASHERS	
W	0	flat washer	
SW	4	spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW	\Q\}	external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E	0	retaining ring	
G		grip-type retaining ring	

Sony Corporation

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SONY

date

July 22, 1978

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All Authorized Service Stations, Servicing Dealers, Factory Service Centers (CS4)

from

M. Salvati, Mgr. Hi-Fi Technical Support

subject

Part number corrections

Please change the following incorrect part numbers in the service manuals to the correct ones shown below.

Model	Part	Listed Number	Correct Number	SM Page
PS-T3	Turntable platter assembly	A-462-600-8A	X-485-270-30	21
PS-X5	Head shell assembly	X-485-301-43	X-485-301-41	19
PS-X6	11 11	X-485-301-42	X-485-301-41	30
PS-X7	Protection sheet	4-853-065-00	4-853-849-00	33
TC-K3	Oscillating trans- former	1-433-132-00	1-433-132-11 or 1	14 25
TC-165	Volume control (20K)	1-220-455-00	1-222-455-00	51