

SPECIFICATIONS

Power Requirements:

110, 120, 220, 240 V ac, 50/60 Hz

Power Consumption:

35 W

Dimensions:

Approx. 430 (w) x 170 (h) x 310 (d) mm

 $17 \text{ (w)} \times 6^{3/4} \text{ (h)} \times 12^{1/4} \text{ (d)} \text{ inches}$

Including projecting parts and controls

Weight:

Approx. 10 kg, 22 lb 1 oz

Track:

: 4-track 2-channel stereo

Fast Forward and Rewind Time:

Approx. 70 seconds with Sony cassette

C-60

Frequency Response:

DOLBY NR OFF

With Ferri-Chrome cassette 20-18,000 Hz (NAB) 30-16,000 Hz ± 3 dB (NAB)

30-16,000 Hz (DIN) With chromium dioxide cassette

20-17,000 Hz (NAB) 30-15,000 Hz ± 3 dB (NAB)

30-15,000 Hz (DIN)
With regular cassette

20-15,000 Hz (NAB) 30-13,000 Hz (DIN)

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

SAFETY RELATED COMPONENT WARNING!

MARK ON THE SHCEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Wow and Flutter: 0.045% WRMS (NAB), ± 0.12% (DIN)

S/N Ratio: DOLBY NR OFF

With Ferri-Chrome cassette 60 dB at peak level (NAB) 59 dB (DIN, 1975 rev.)

51 dB (DIN, old)
With chromium dioxide cassette

56 dB at peak level (NAB) DOLBY NR ON

Improved by 5 dB at 1 kHz, 10 dB

above 5 kHz

Total Harmonic

Distortion: 1.3%

Record Bias

Frequency: 105 kHz

Inputs: MIC (two phone jacks)

Sensitivity: 0.2 mV (-72 dB) for low-impedance microphone

LINE IN (stereo binaural jack, two phono jacks)

Sensitivity: 0.06V (-22 dB) Impedance: $100 \text{ k}\Omega$

- Continued on page 2 -



Outputs: LINE OUT (two phono jacks)

Normal level: 0.775 V (0 dB)Load impedance: $100 \text{ k}\Omega$

with LINE OUT level control at "10" suitable load impedance more than $10 \, k\Omega$

HEADPHONES (binaural jack)

output level 3.9 mV to 0.12V (-46 to -16 dB)

at load impedance 8Ω

TC-K7II

Record/playback jack:

Input impedance less than $10 \text{ k}\Omega$ Output impedance less than $10 \text{ k}\Omega$

Remote control

connector:

11-pin connector

0 dB = 0.775V

MODEL IDENTIFICATIONS

Specification Label —

AEP, E model

SONY®

TAPECORDER TC-K7II
110,120,220,240V~50/60Hz 35W

NO.

process and the same of the sa

MADE IN JAPAN

SONY

TC-K7BII

TAPECORDER TC-K7BII 110,120,220,240V~50/60Hz 35W

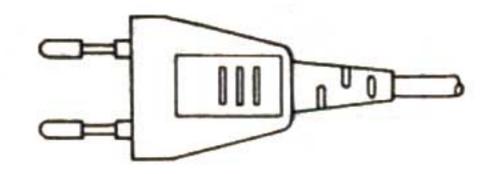
NO.

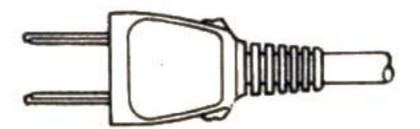
MADE IN JAPAN

Power Cord —

E model: euro-plug (Part No. 1-551-216-00)

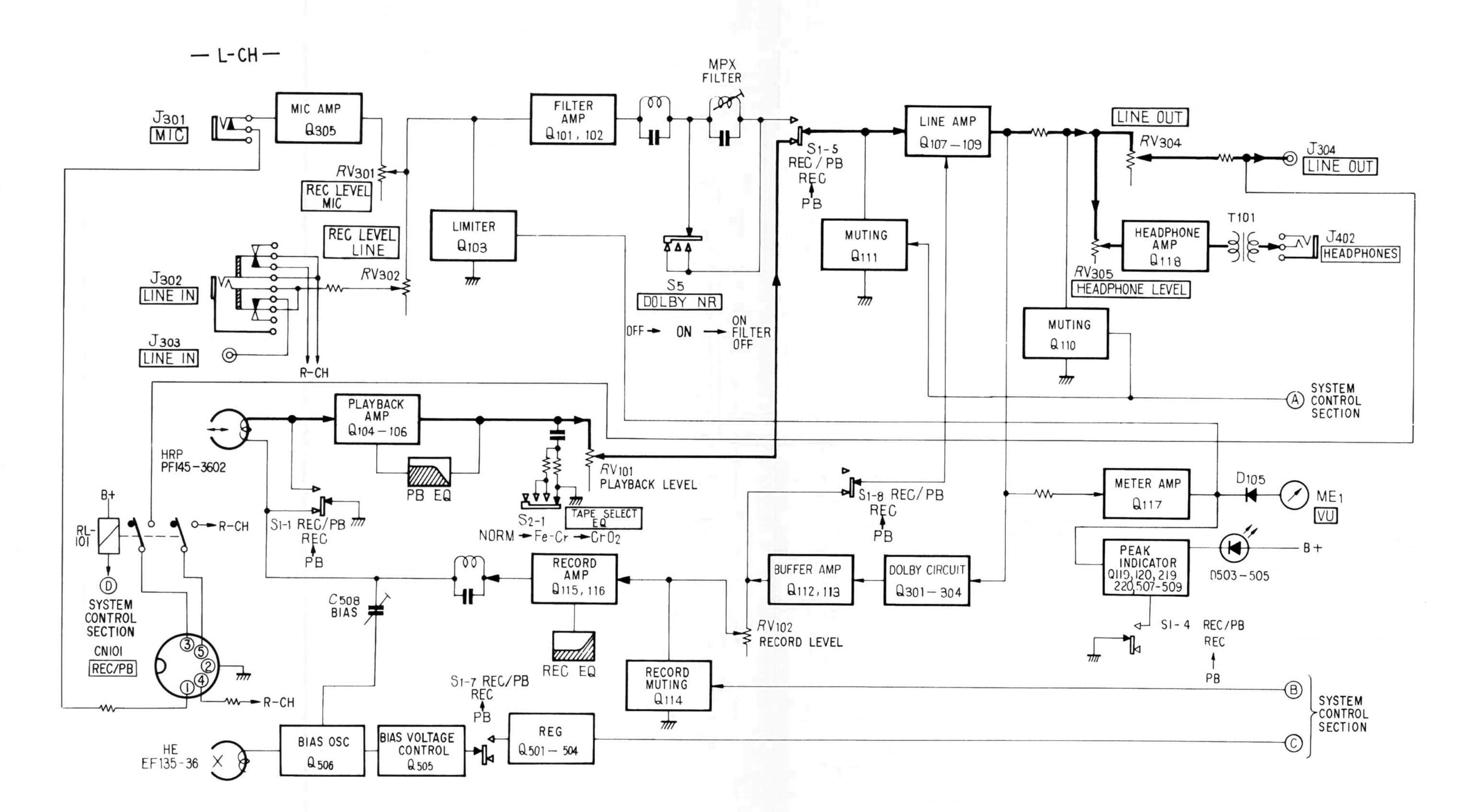
E model: parallel blade plug (Part No. 1-534-754-00)



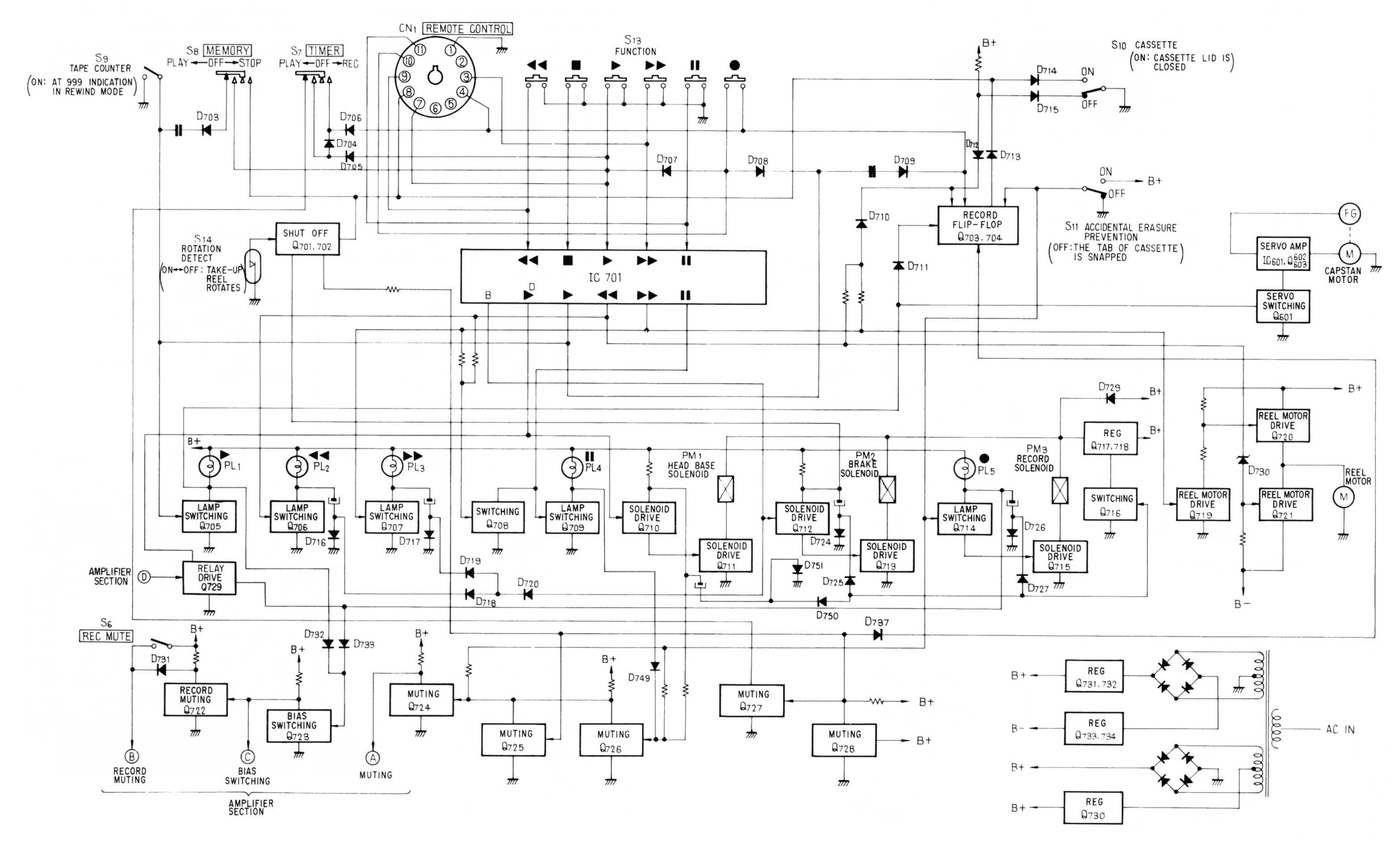


SECTION 1 OUTLINE

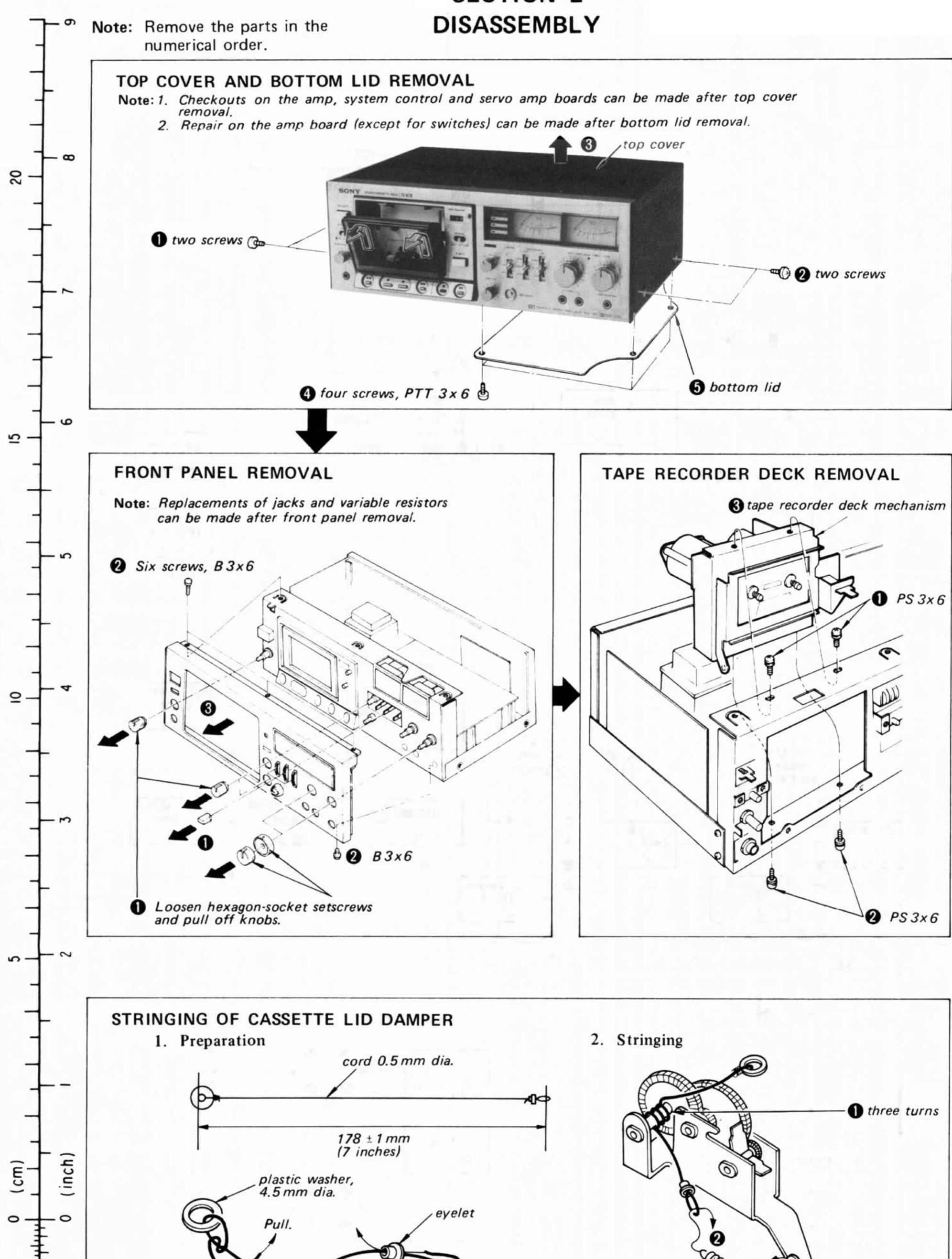
1-1. BLOCK DIAGRAM - Amplifier Section -



R-CH is omitted.



SECTION 2



Cramp.

SECTION 3 ADJUSTMENTS

PRECAUTION

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

> record/playback head erase head capstan

pinch roller rubber belts idlers

- 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.

3-1. MECHANICAL ADJUSTMENTS

Record Solenoid Position Adjustment

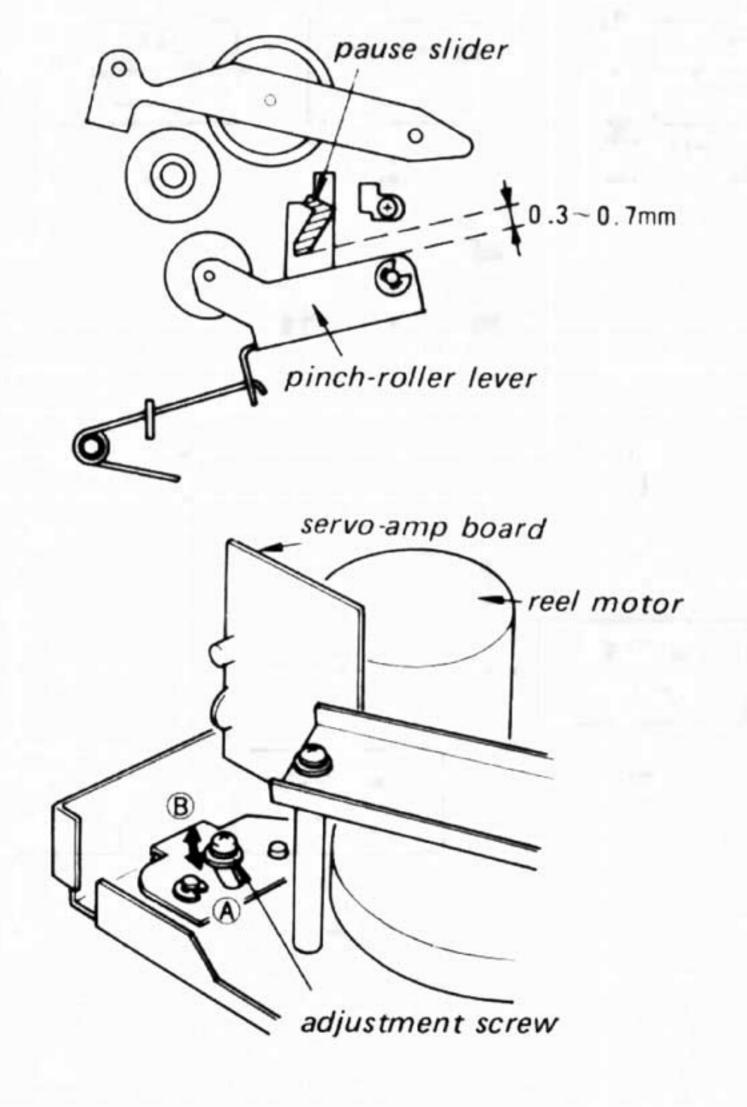
Adjust the record solenoid position to obtain the specified clearance between plate spring and record solenoid lever.

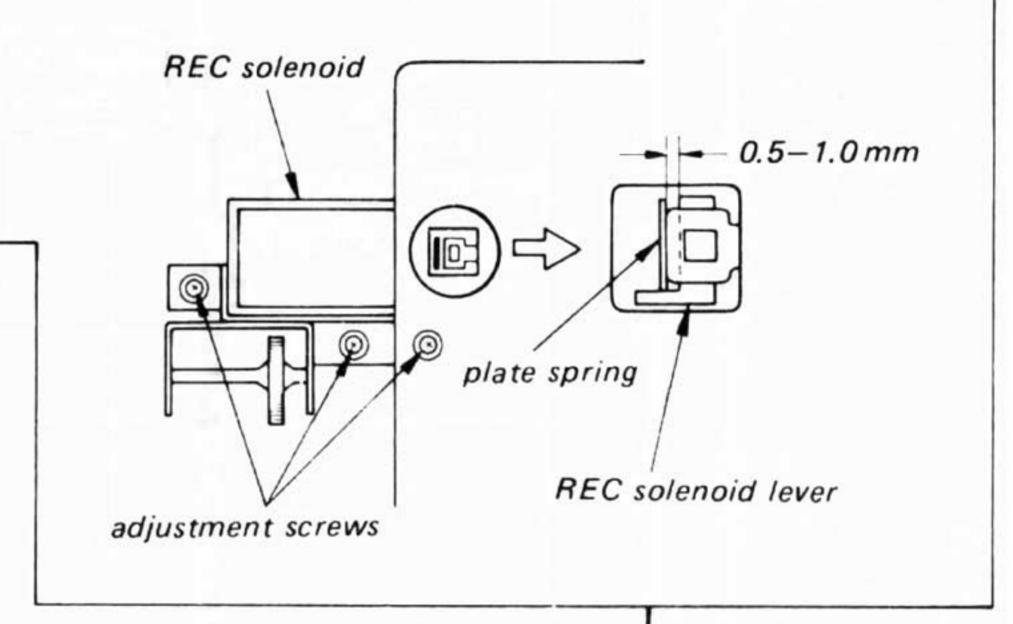
Pause Lever Position Adjustment

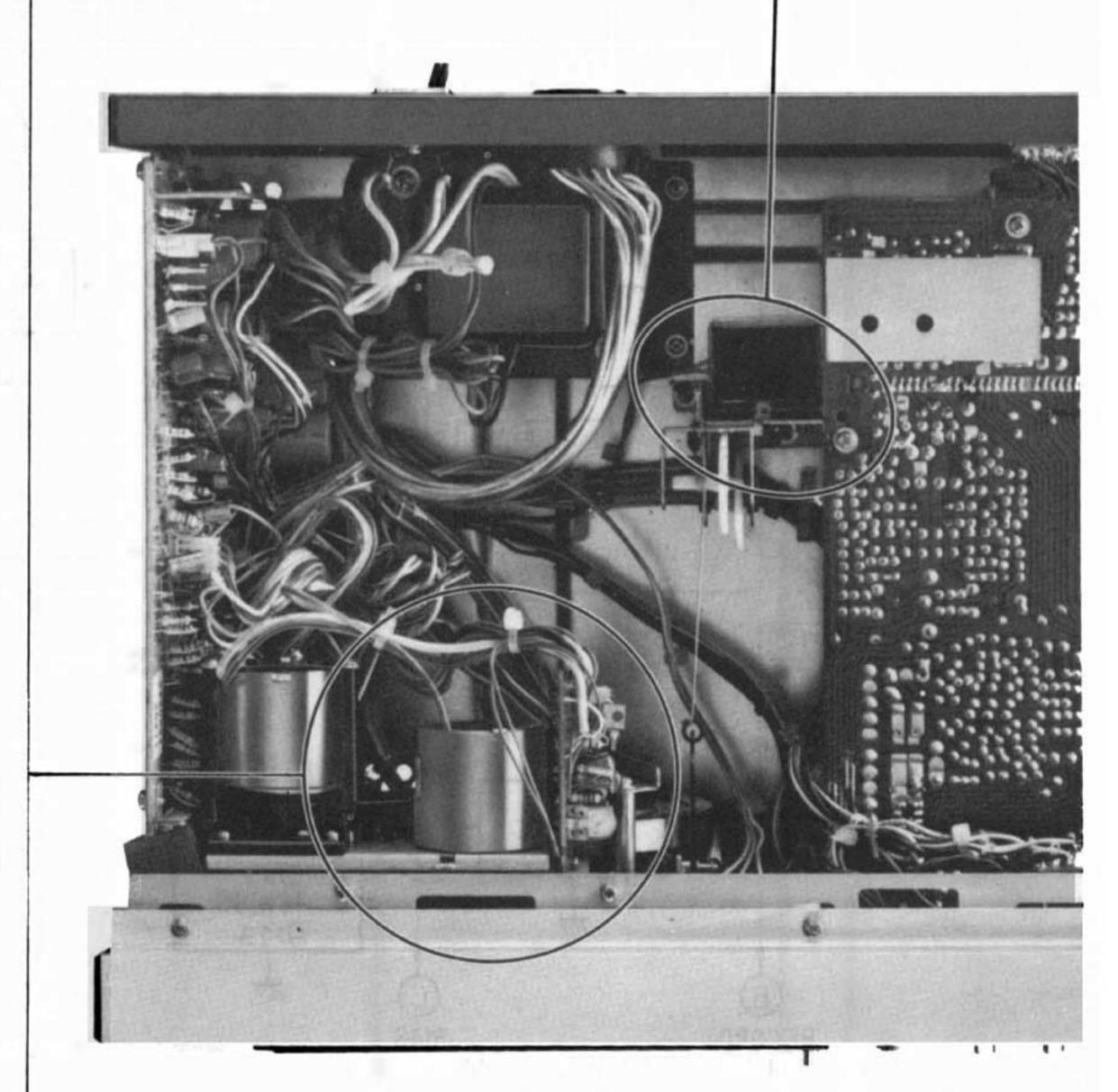
PAUSE mode –

Loosen the adjustment screw and slide it in the direction (A) or (B) to obtain the specified clearance as shown below.

Sliding direction of adjustment screw	Interval
direction (A)	narrow
direction B	wide



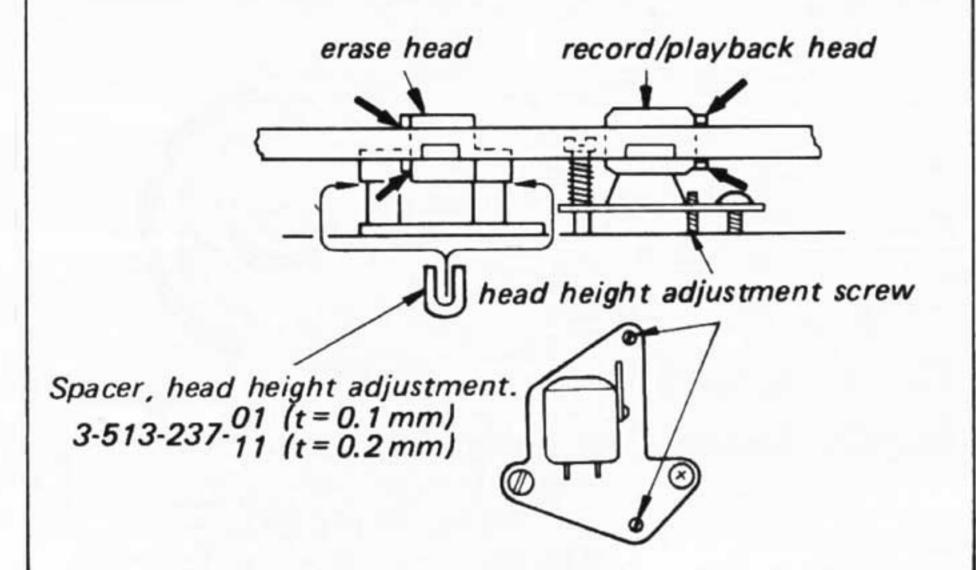




Tape Path Adjustment

playback mode –

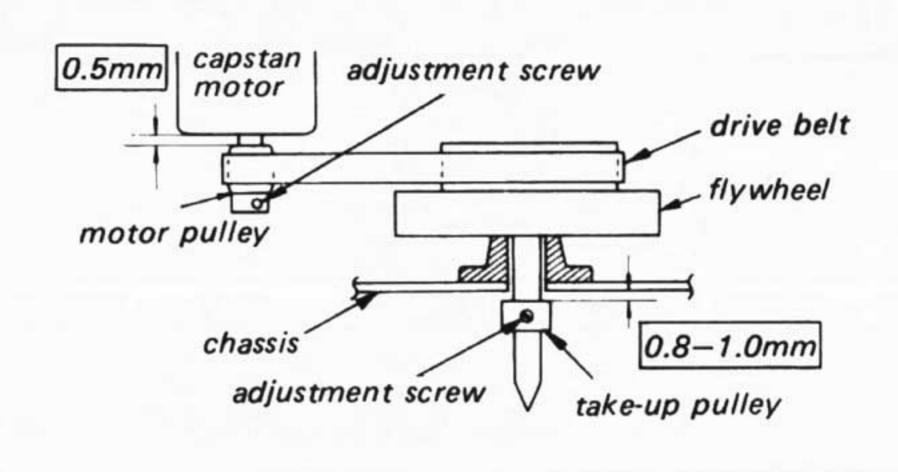
- Adjust erase head height by adding or removing spacer to eliminate tape curl at the erase head.
- Adjust record/playback head height adjustment screw to eliminate tape curl at the record/playback head.

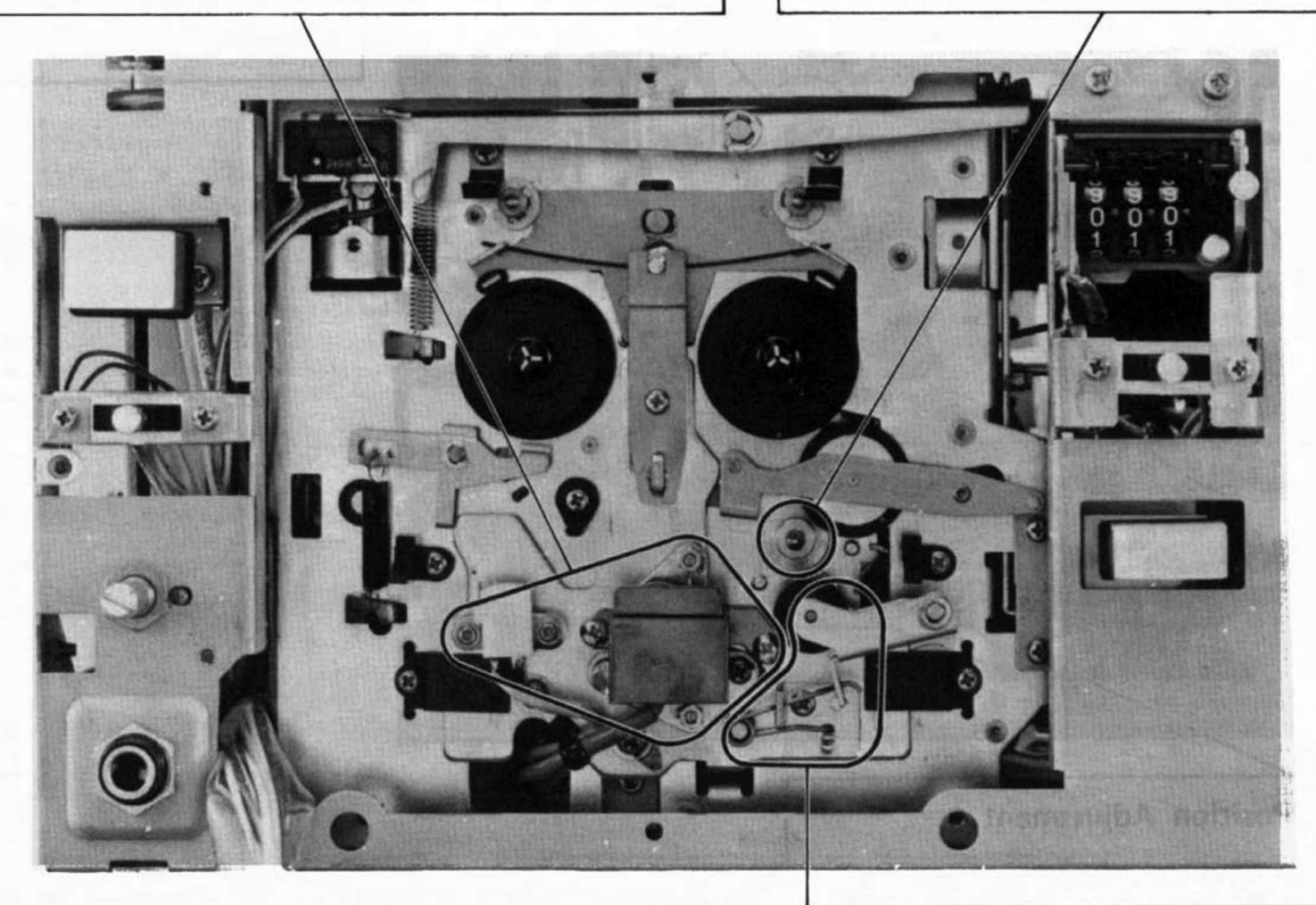


Pulley Height Adjustment

stop mode –

Adjust position of capstan motor pulley and take-up pulley to obtain the specified clearances as shown below.

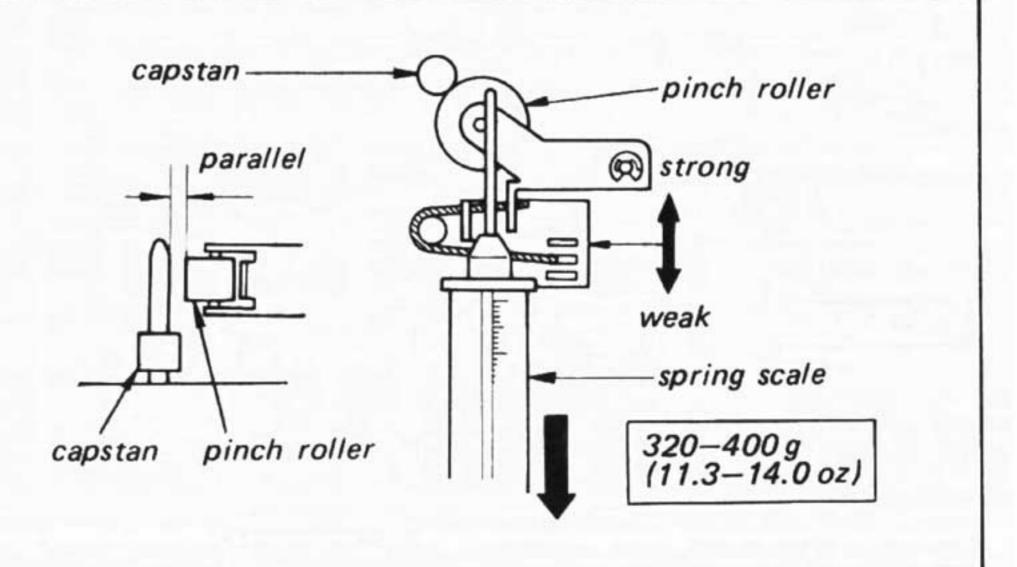




Pinch Roller Pressure Adjustment

playback mode –

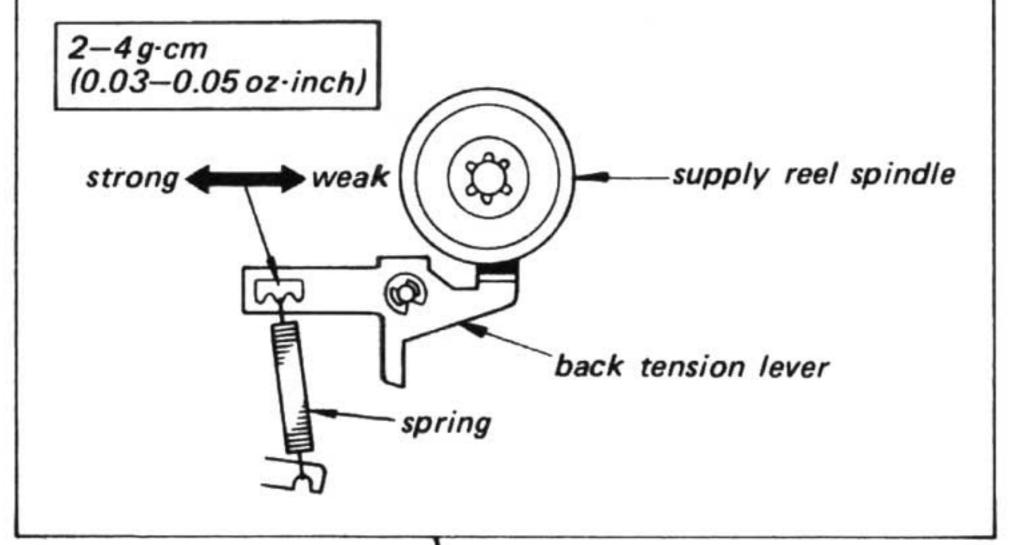
- 1. Pull the spring scale.
- Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.
- 3. If necessary, change the hooking position.



Forward Back Tension Torque Adjustment

playback mode –

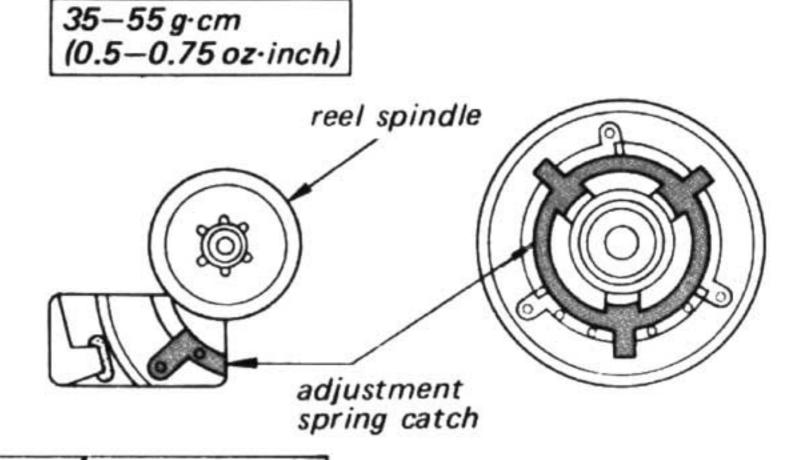
- 1. Place the type CQ-101 cassette torque meter in the set.
- 2. Adjust the spring-hook position to obtain the specified torque.

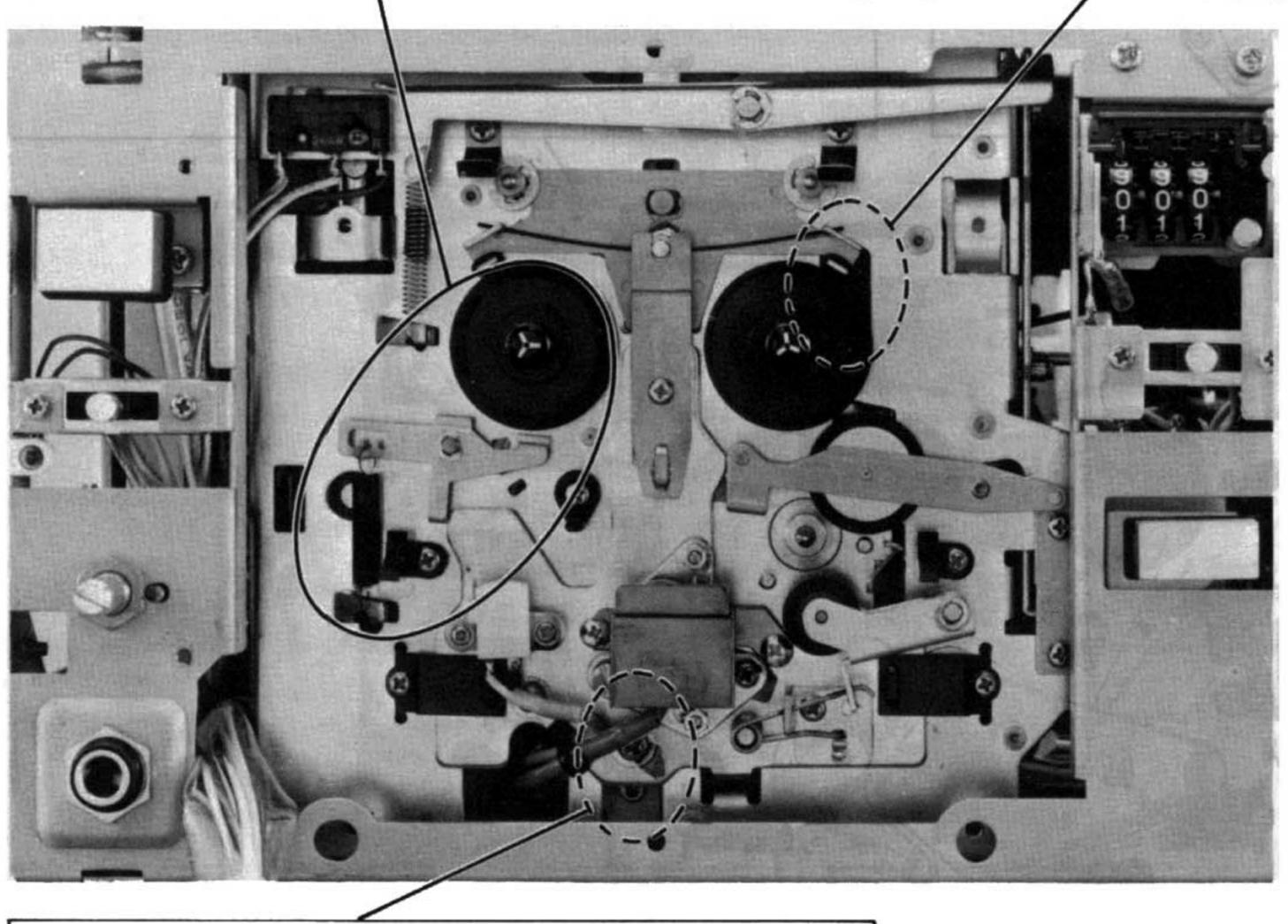


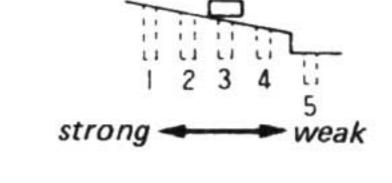
Forward Torque Adjustment

playback mode –

- 1. Place the type CQ-101 cassette torque meter in the set.
- Adjust the position of the adjustment spring catch using a suitable pin and turning the reel spindle to obtain the specified torque.



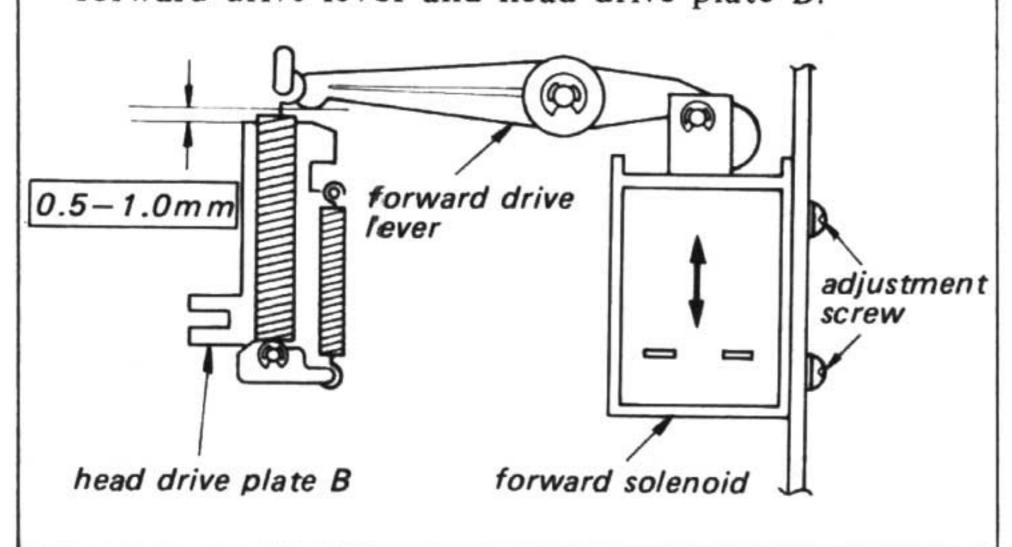




Forward Solenoid Position Adjustment

- playback mode -

Adjust the position of the forward solenoid to obtain the indicated clearance between the forward drive lever and head drive plate B.



Fast Forward and Rewind Torque Measurement

Use type CQ-201 cassette torque meter.

Fast Forward Torque: 75-130 g⋅cm

 $(1.1-1.8 \text{ g}\cdot\text{cm})$

Rewind Torque:

75-130 g⋅cm

 $(1.1-1.8 \text{ g}\cdot\text{cm})$

3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for

both L-CH and R-CH.

Test Equipment/Tools Required:

audio oscillator (af osc)

VTVM

digital frequency counter

speed checker SONY LFM-30

oscilloscope

attenuator (600 Ω)

non-magnetic screwdriver

resistors ... $600 \Omega (^{1}/_{4} W)$, $10 k\Omega (^{1}/_{4} W)$,

 $100 \,\mathrm{k}\Omega \,(^{1}/_{4}\,\mathrm{W})$

blank tapes (completely erased with bulk eraser)

SONY CS-10 (HF), CS-20 (CrO₂),

CS-30 (Fe-Cr)

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

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

SONY test tapes

P-4-A81S (6.3 kHz, -10 dB)

P-4-A82 (10 kHz, -10 dB)

P-4-L81 (333 Hz, 0 dB)

WS-48 (3 kHz, 0 dB)

Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:

OFF

LINE OUT control:

MAX

EQ switch:

NORMAL

BIAS switch:

NORMAL

HEADPHONE LEVEL:

MAX

TIMER switch:

OFF

MEMORY switch:

OFF

LIMITER switch:

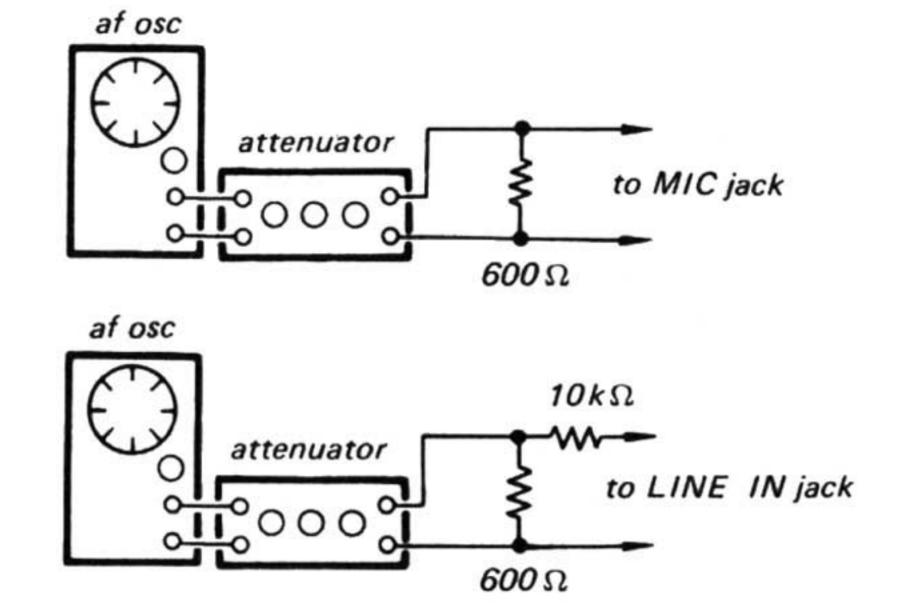
OFF

REC MUTE switch:

OFF

Test Equipment Connections:

Input side:



Standard Record:

Deliver the standard input signal level to the input jack and set the MIC or LINE control to obtain the standard output signal level. Set the LINE control to MIN when MIC is used or set MIC control to MIN when LINE IN is used.

Standard Input Level

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

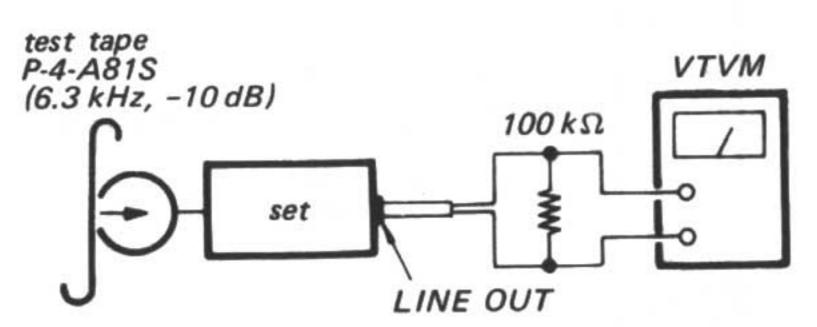
Standard Output Level

	LINE OUT	HEADPHONES
load impedance	100 kΩ	8Ω
output level	0.775 V (0 dB)	0.12V (-16 dB)

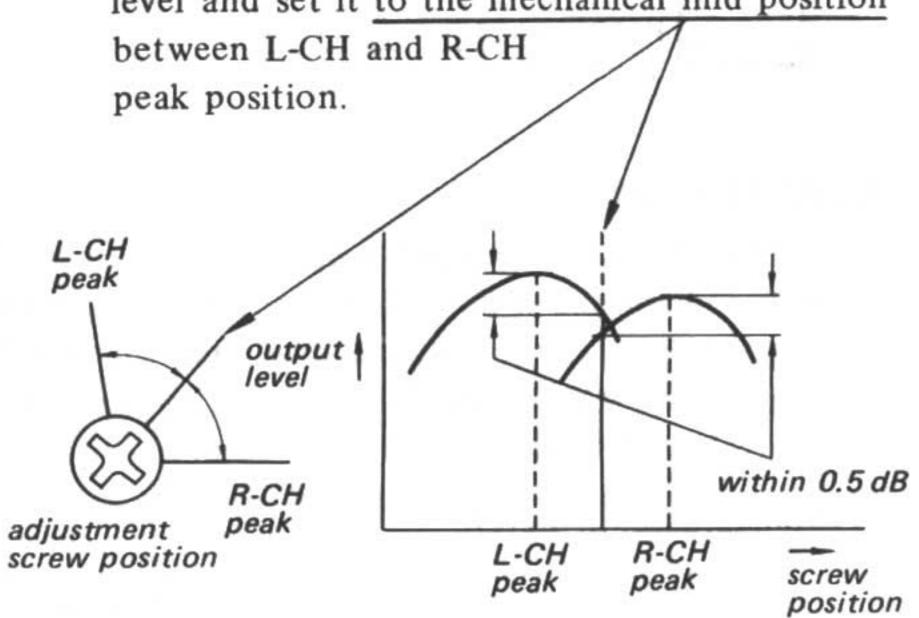
Record/playback Head Azimuth Adjustment

Procedure:

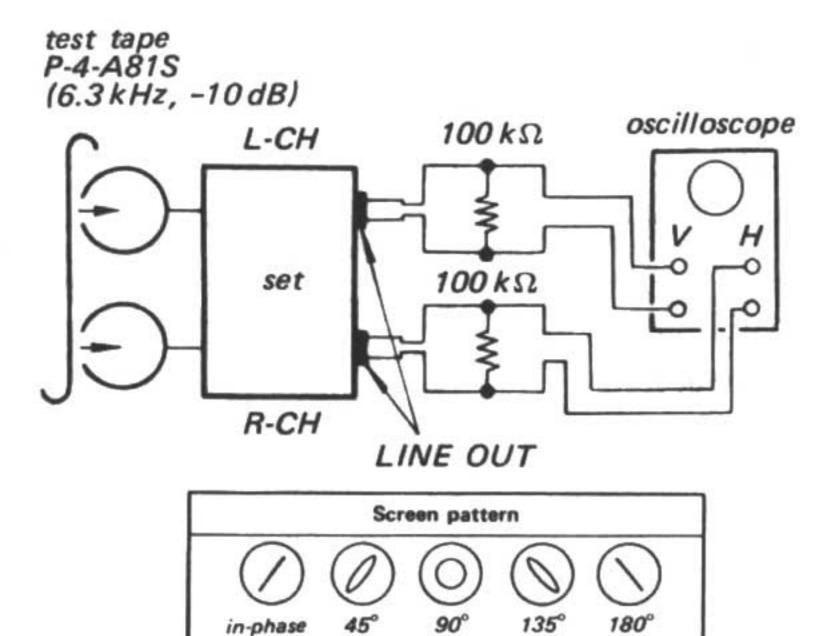
Playback Mode:



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



Playback Mode:

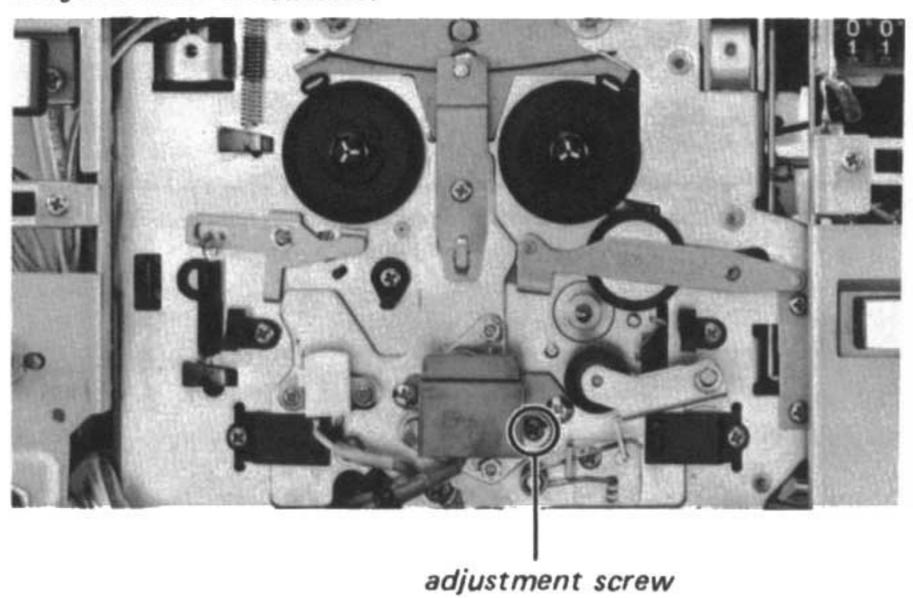


Adjustment Location:

in-phase

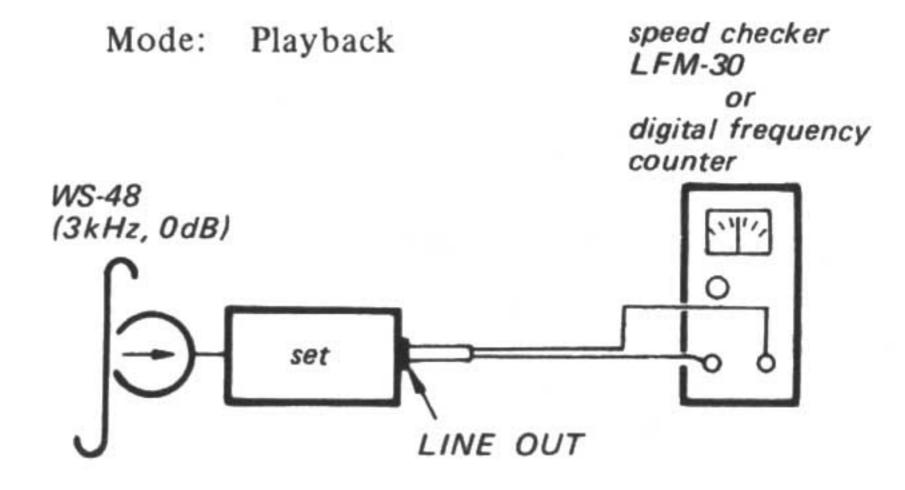
good

wrong



Tape Speed Adjustment

Procedure:



Adjust RV601 to obtain the specified values below.

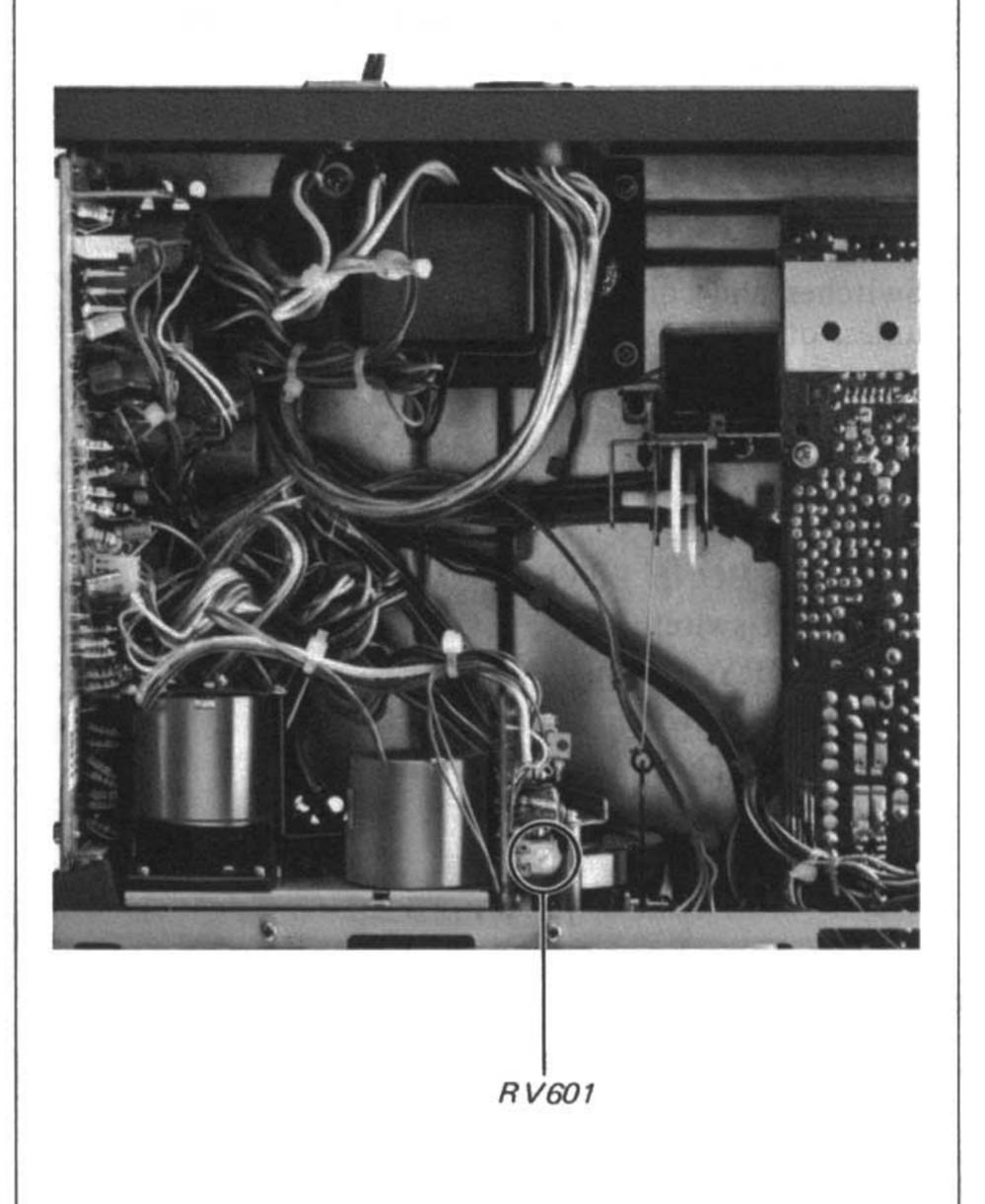
Specification:

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

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

Adjustment Location:

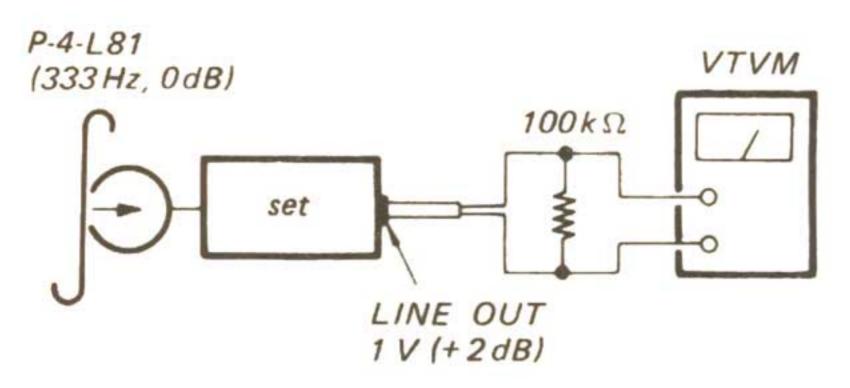
servo amp board —



Playback Level Adjustment

Procedure:

1. Mode: Playback



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain 1 V (+2 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:

0.92 - 1.05 V

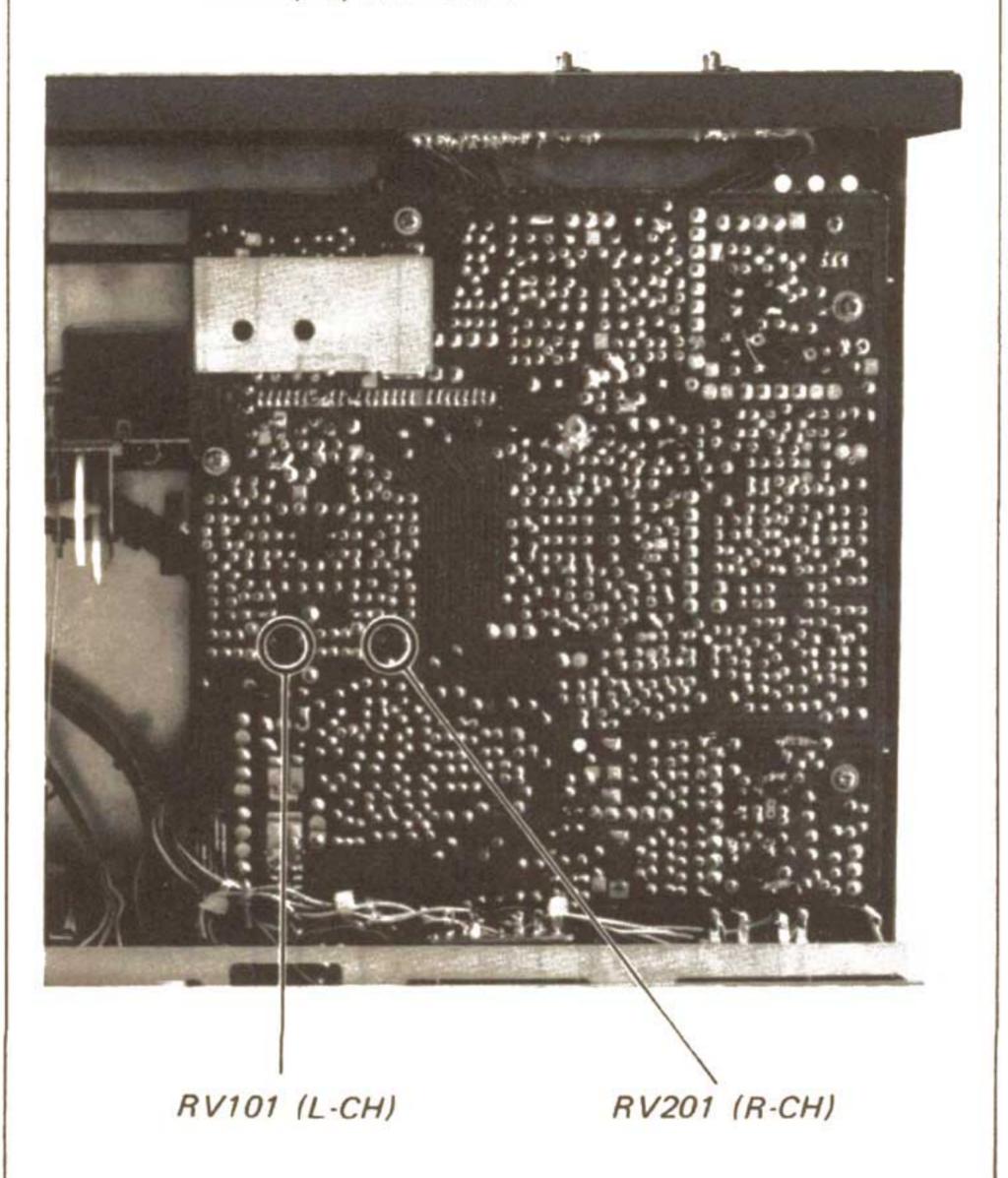
(+1.5-2.5 dB)

Level difference between channels:

less than 0.5 dB

Adjustment Location:

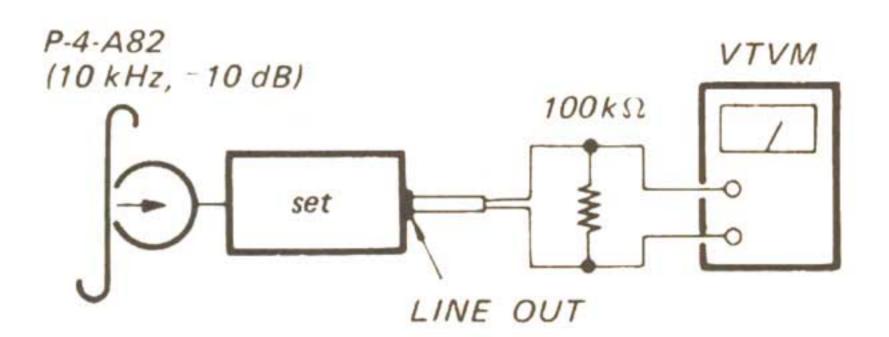
- record/playback board -



Playback Equalizer Adjustment

Procedure:

Mode: Playback

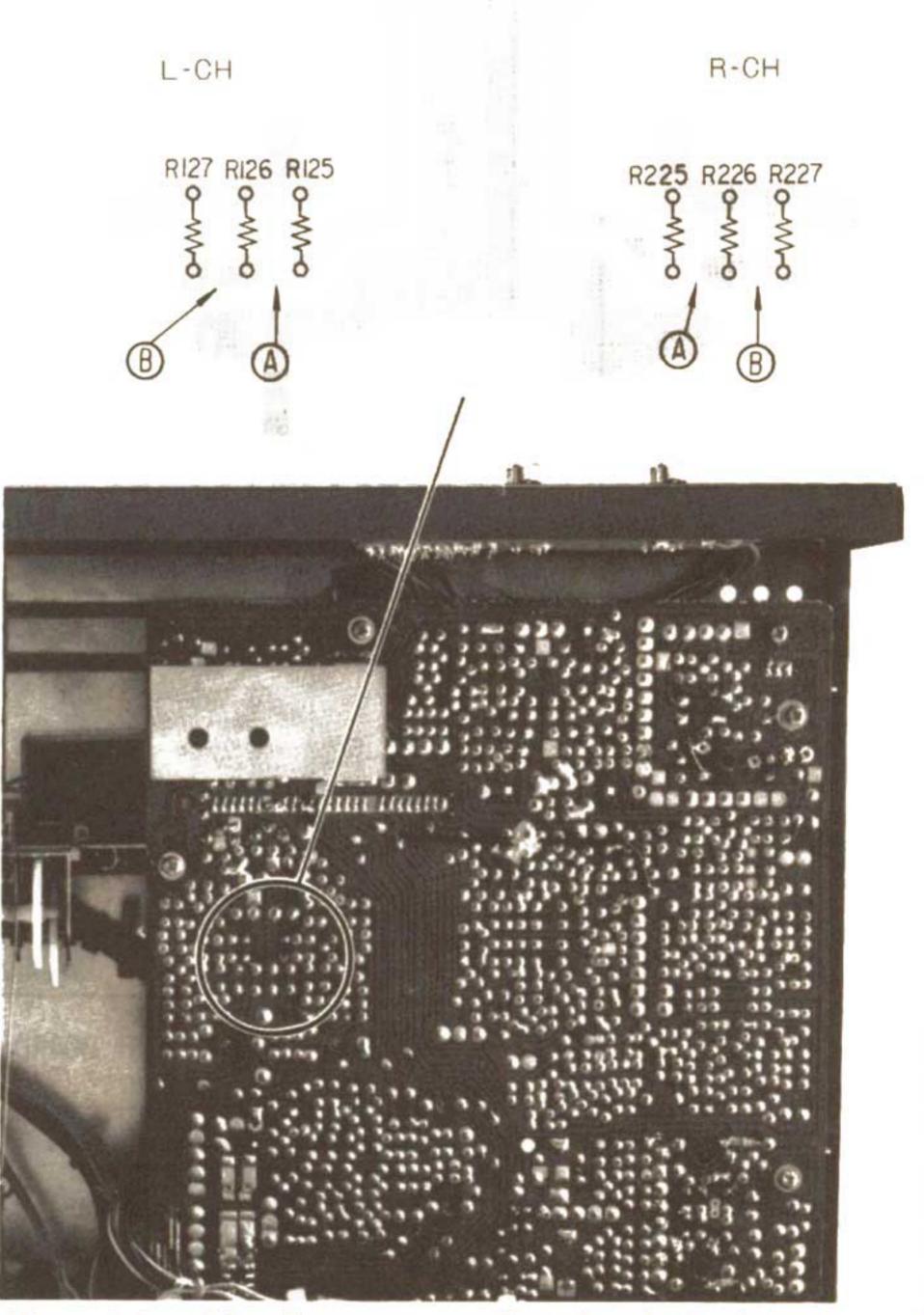


Adjust pattern connections for 0.27-0.37V (-9.5 - -7.5 dB) VTVM reading.

Adjustment Location:

- record/playback board -

Pattern connection	VTVM reading
(open)	up
A	
(A) and (B)	down

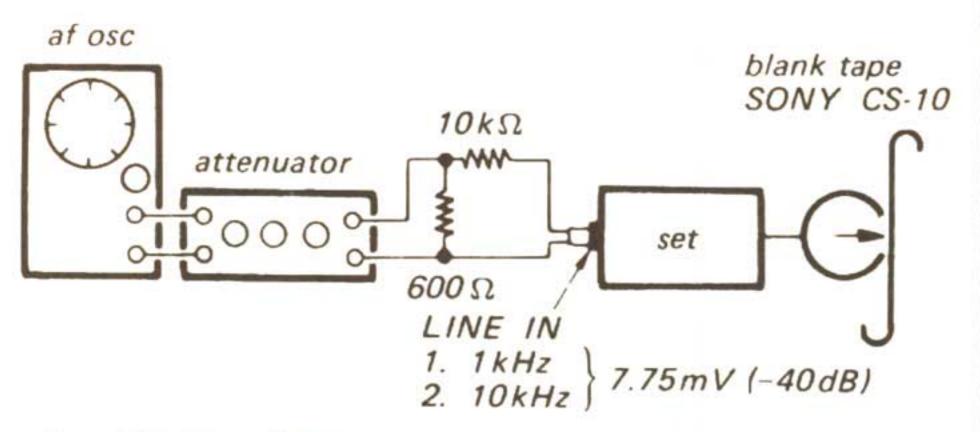


Note: After this adjustment, confirm the playback level.

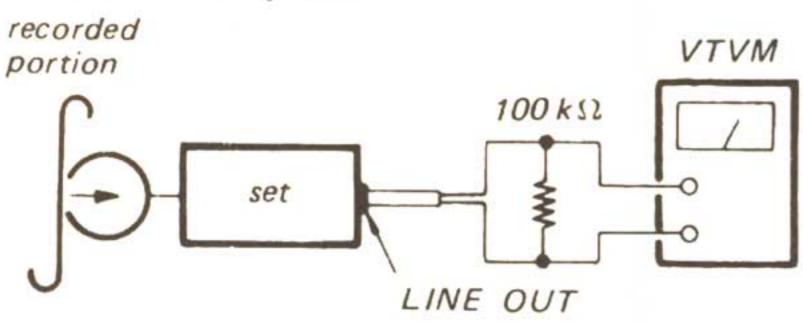
Record Bias Adjustment

Procedure:

1. Mode: Standard record (See page 11.)



2. Mode: Playback



Adjust C508 (L-CH) and C509 (R-CH) to make 10 kHz and 1 kHz signal output levels equal.

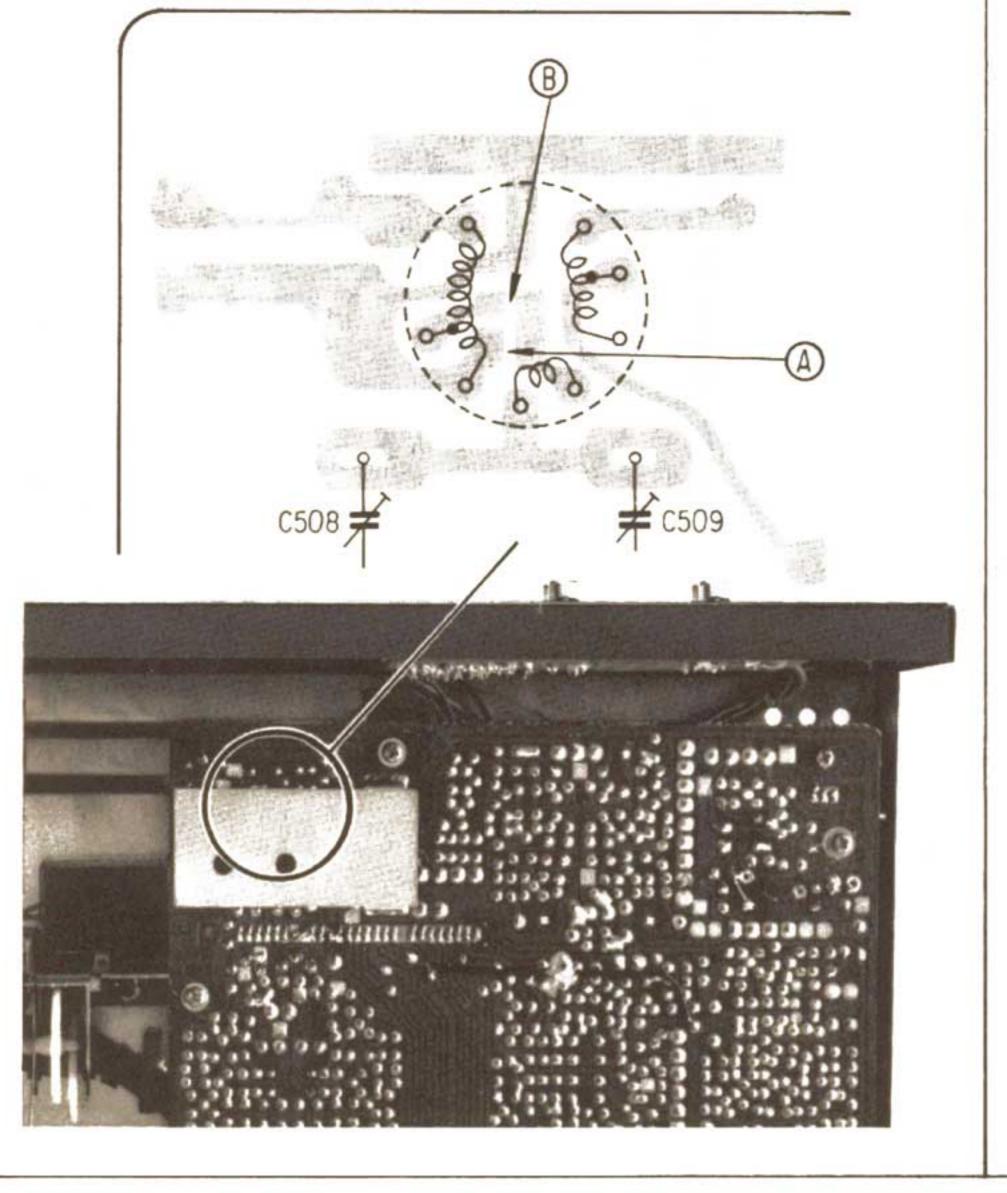
Level difference between the two output levels: within 0.5 dB

Adjustment Location:

Note: Normally, patterns at A are bridged.

If adjustment is not made with trimmers fully tightened, remove solder bridge at A and bridge patterns at B, and repeat the adjustment.

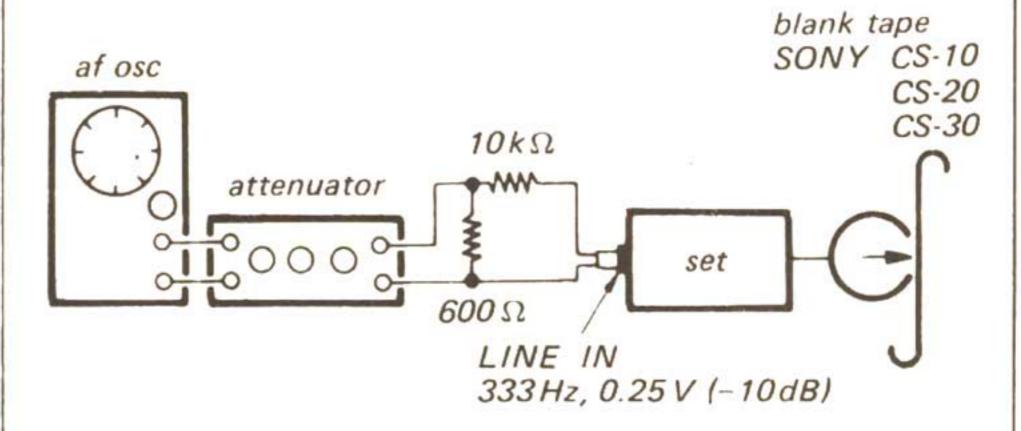
- record/playback board -



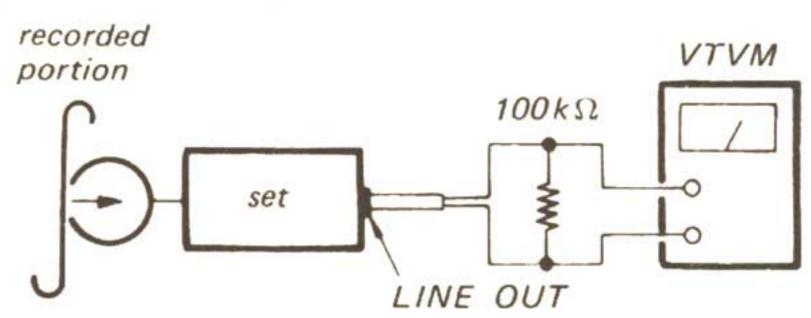
Record Level Adjustment

Procedure:

1. Mode: Standard record (See page 11.)



2. Mode: Playback



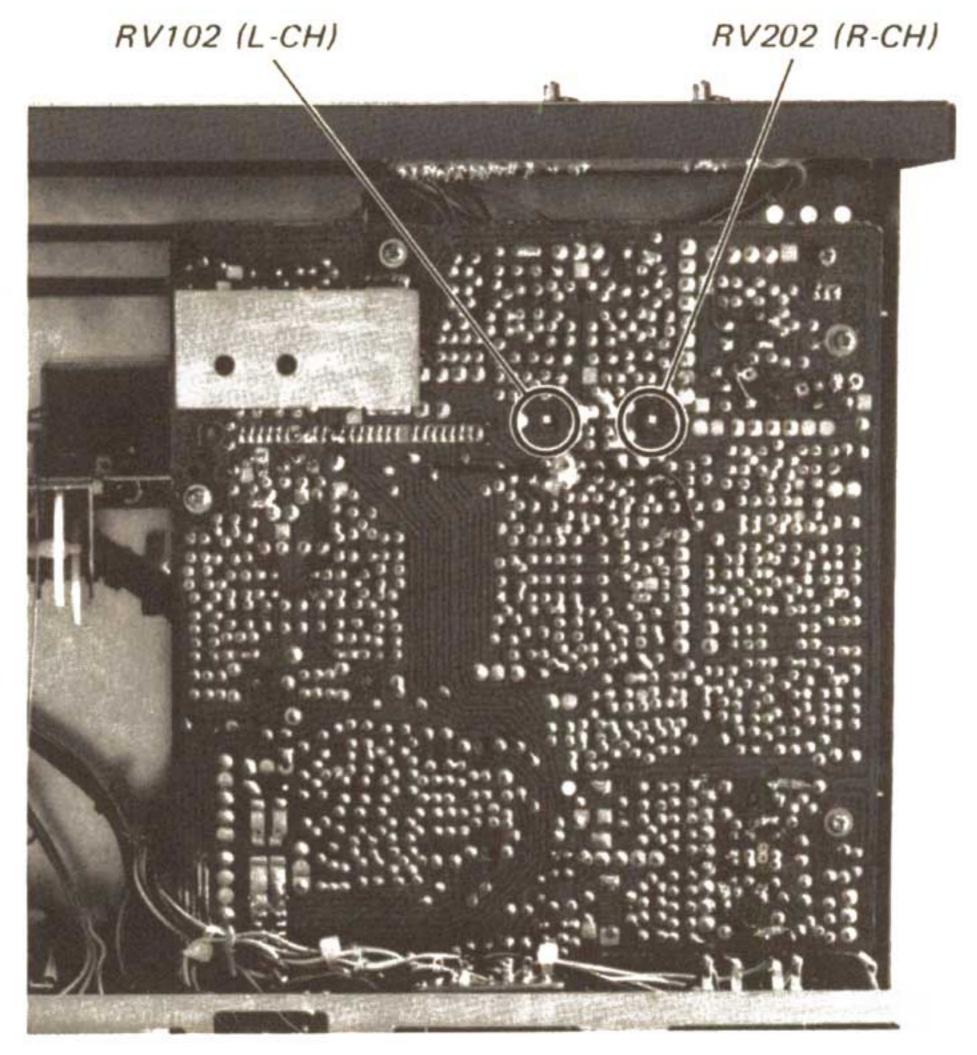
Adjust RV102 (L-CH) and RV202 (R-CH) to obtain 0.775 V (0 dB) VTVM reading.

Specification:

LINE OUT level: 0.73-0.89 V $(0 \text{ dB} \pm 0.5 \text{ dB})$

Adjustment Location:

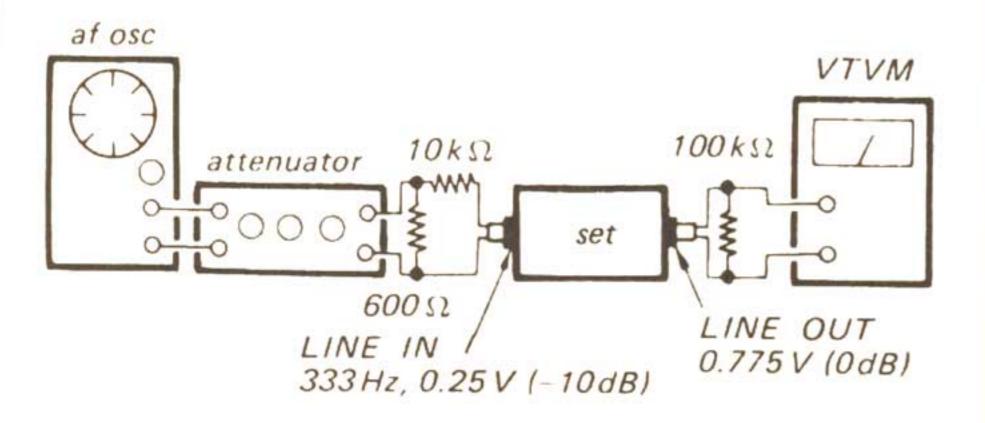
- record/playback board -

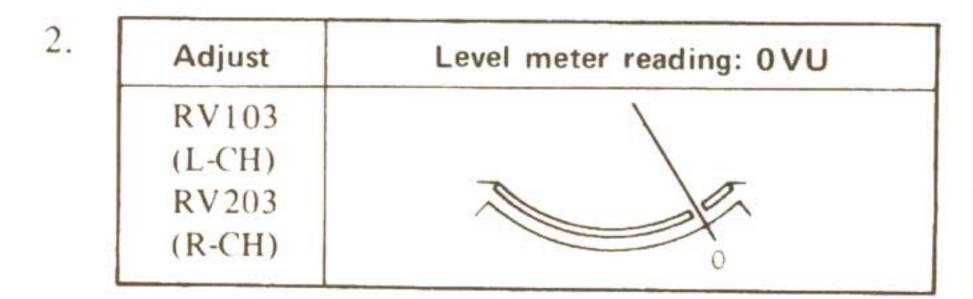


Level Meter Calibration

Procedure:

1. Mode: Standard record (See page 11.)



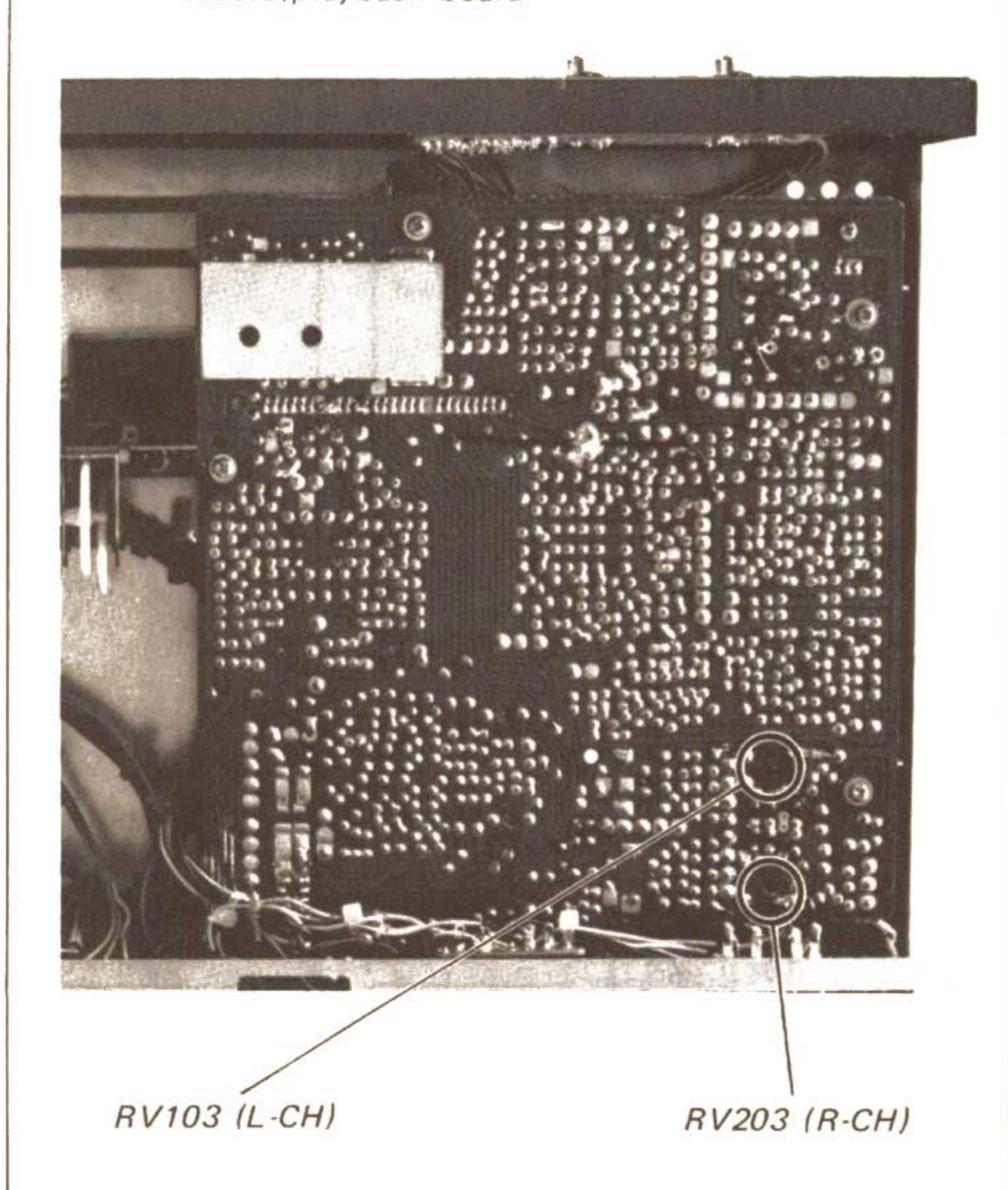


Specification:

When the LINE IN level is adjusted to make 0VU indication, VTVM reading should be 0.73-0.89V (-0.5-+0.5 dB).

Adjustment Location:

- record/playback board -

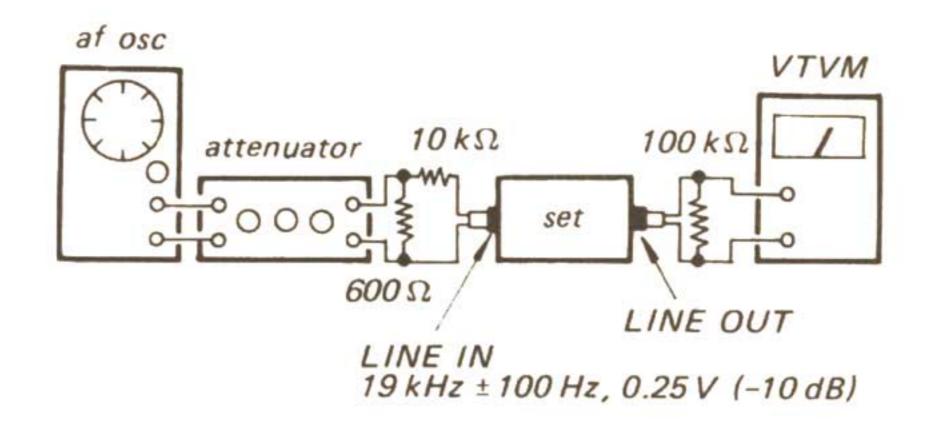


MPX Filter Adjustment

Procedure:

Mode: Standard record (See page 11.)

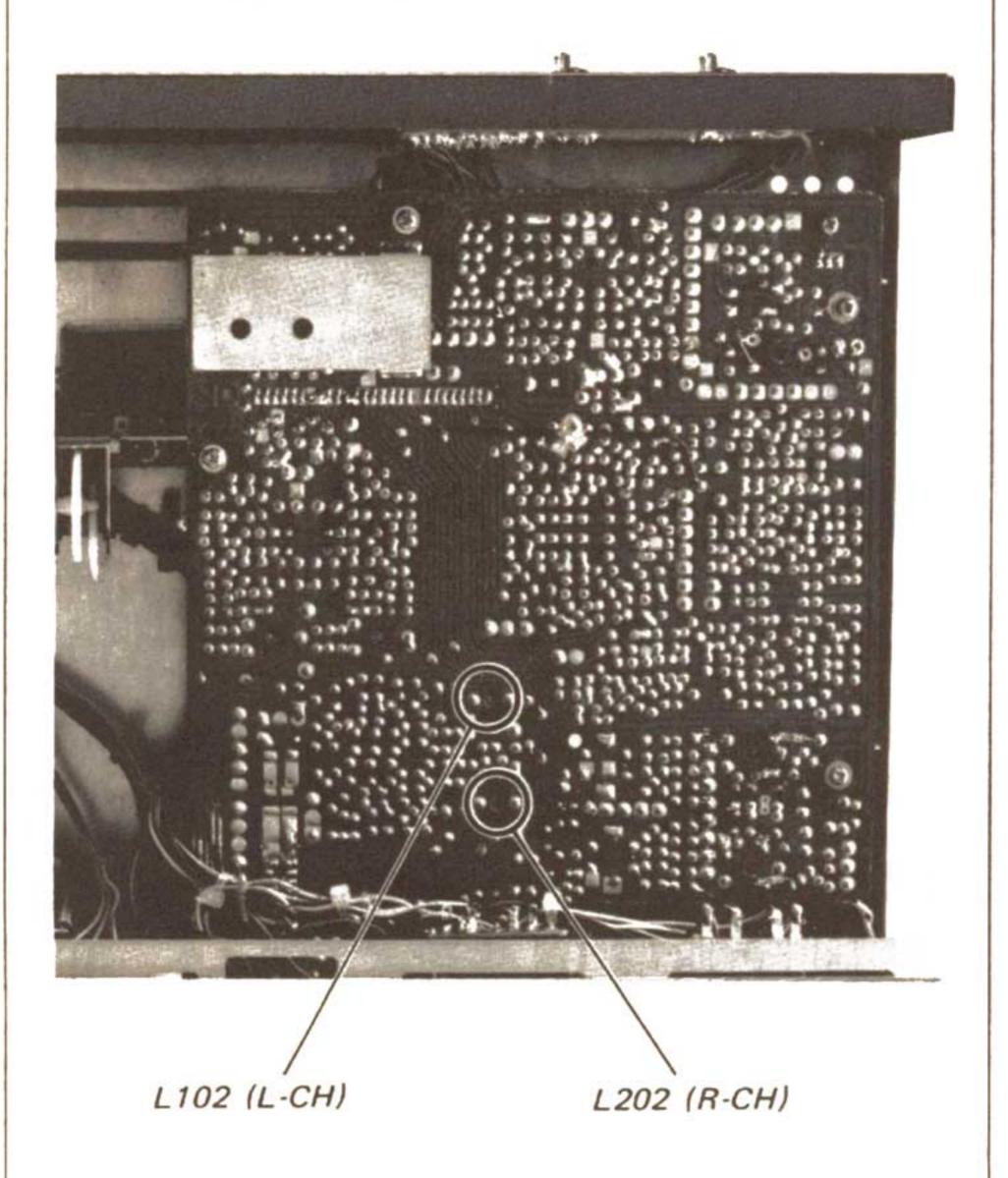
DOLBY NR switch: ON




Adjust L102 (L-CH) and L202 (R-CH) for 25 mV (-30 dB) or less VTVM reading.

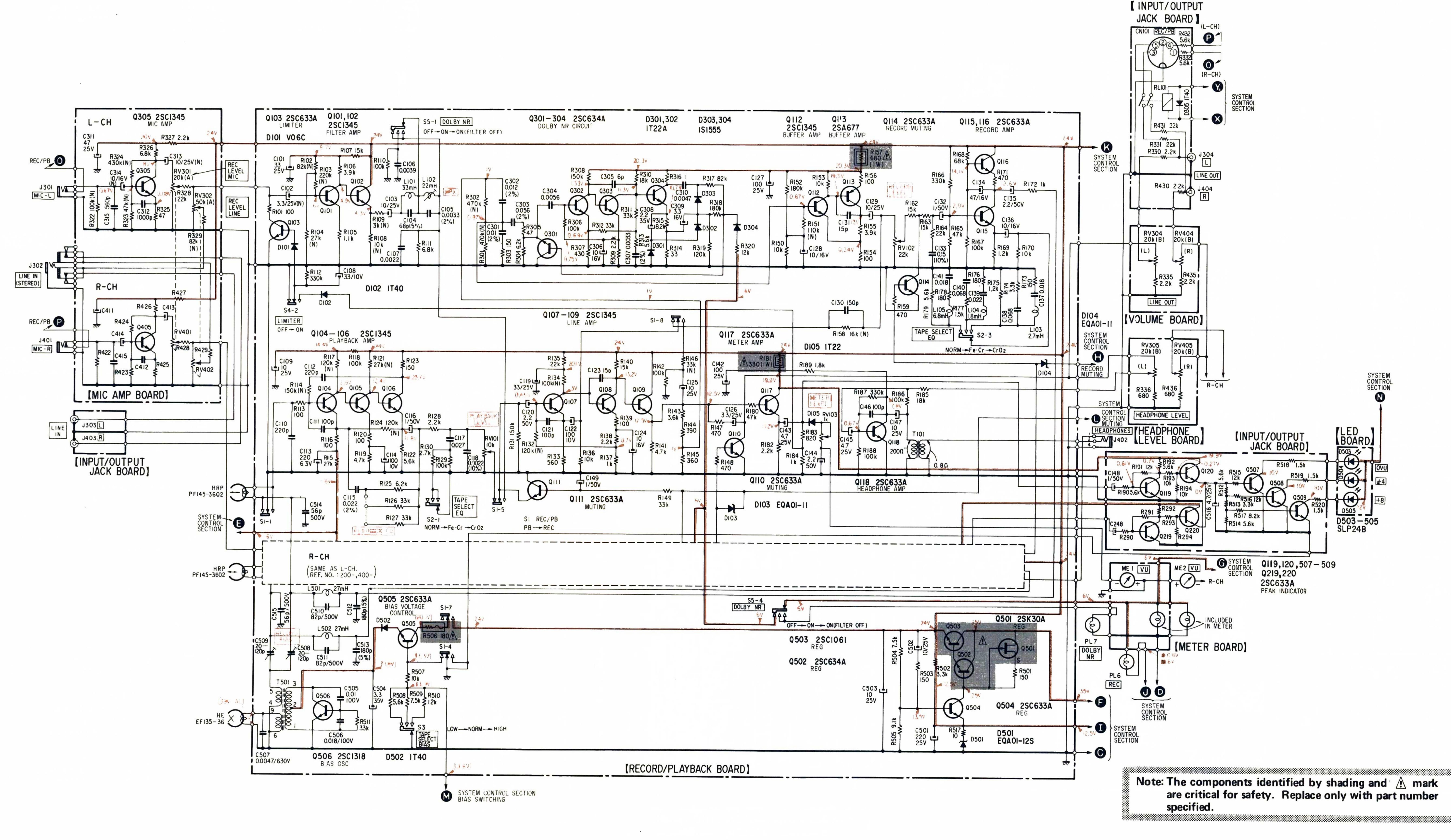
Adjustment Location:

- record/playback board -



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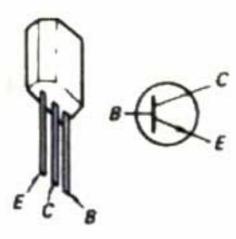




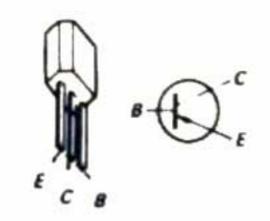
Replacement Semiconductors

For replacement, use semiconductors except in ()

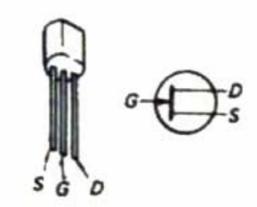
Q101, 102, 104-107 Q112, 201, 202, Q204-207, 212 Q305, 405 Q108, 109, 208, 209: Q103, 110, 111 Q114-120, 203, 210 Q211, 214-220 Q301-304, 401-404 Q504, 505, 507-509 Q502: 2SC634A (2SC1345) 2SC634A (2SC633A)



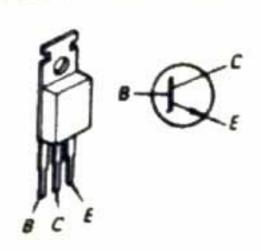
Q113, 213: 2SA678 (2SA677)



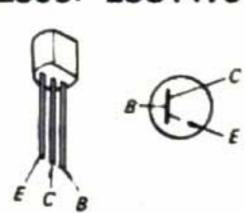
Q501: 2SK30A



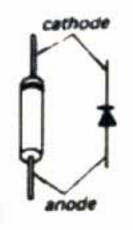
Q503: 2SC1061



Q506: 2SC1475 (2SC1318)



D101, 201: 10E2 (V06C)
D102, 202
D502: 1S1555 (1T40)
D105, 205: 1T22AM (1T22)
D301, 302
D401, 402
: 1S1555
D403, 404
: 1S1555

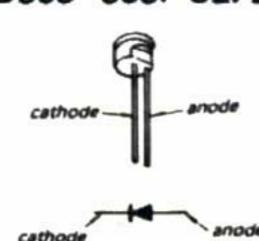


D103, 104 }: EQB01-11Z (EQA01-11)
D203, 204 }: EQB01-12Z (EQA01-12S)

www.hifiengine.com



D503-505: SLP24B [LED]

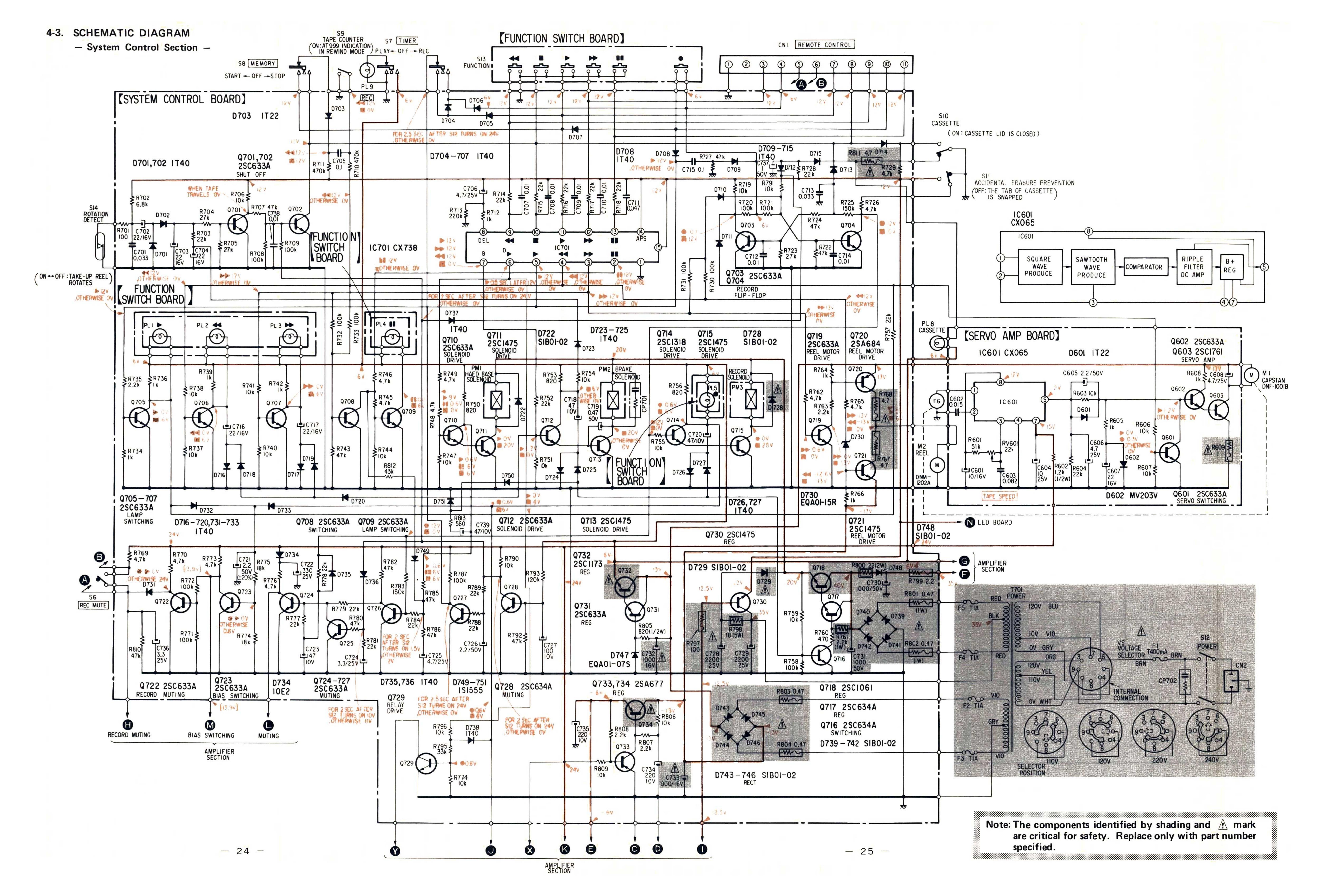


Note:

- All capacitors are in μF unless otherwise noted. pF = μμF
 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted.
 kΩ = 1000 Ω MΩ = 1000 kΩ
- e curve B, unless otherwise noted.

 nonflammable resistor.
- fusible resistor.
- (N): low-noise capacitor and resistor.
- 2% indicates component tolerance.
- e B+ bus.
- e see me ma: B- bus.
- panel designation.
- e adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken in playback mode (indicated by ≱)
 with a VOM (20 kΩ/V).
 - J: record mode
- AC voltage readings in the bias oscillator circuit are taken with a VTVM.
- Switch

Ref. No.	Switch	Position		
S1	REC/PB	PB		
S2	TAPE SELECT EQ	NORMAL		
S3	TAPE SELECT BIAS	LOW		
S4	LIMITER	OFF		
S5	DOLBY NR	OFF		



Replacement Semiconductors

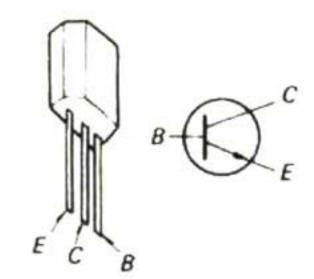
For replacement, use semiconductors except in (

Q601, 602 Q701-710 Q712, 219

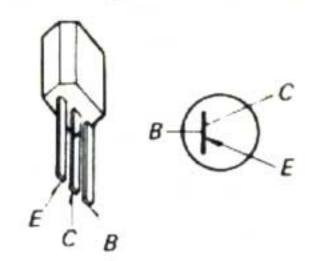
: 2SC634A (2SC633A)

Q722-727 Q729,731

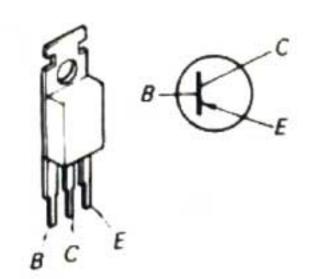
Q716, 717, 728: 2SC634A



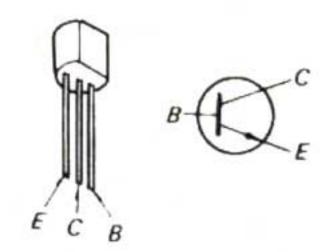
Q733, 734: 2SA678 (2SA677)



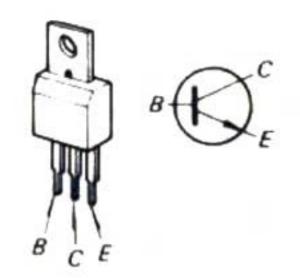
Q718: 2SC1061 Q732: 2SC1173



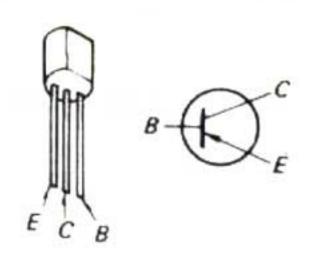
Q711, 713-715 Q721, 730



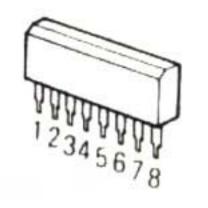
2SC1760 (2SC1761) Q603:



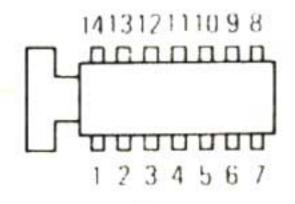
Q720: 2SA684



IC601: CX065A (CX065)



IC701: CX738A (CX738)

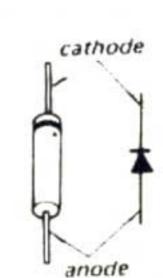


(Top view)

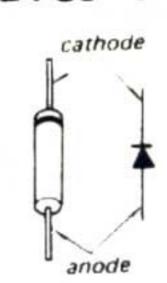
D701,702,704-708

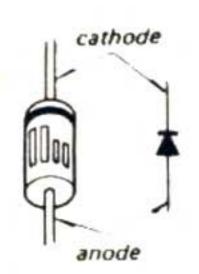
D709-720,723-727 : 1S1555 (1T40)

D731-733, 735-738 1S1555 (1T40) D749-751: 1T22AM (1T22) D601,703: Q734: 10E2

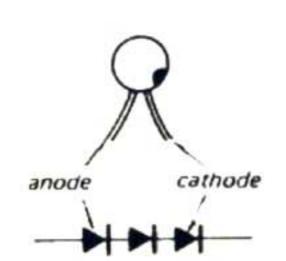


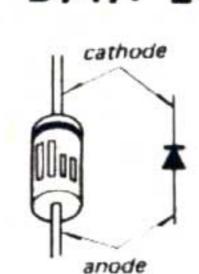
D722,728,729 10E2 (SIB01-02) D739-746,748





D602: MV203V D730: EQB01-15 (EQA01-15R) D747: EQB01-07 (EQA01-07S)





Note:

- 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. $k\Omega = 1000 \Omega$, $M\Omega = 1000 k\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- 2% indicates component tolerance.

: B+ bus.

B- bus.

: panel designation.

: adjustment for repair.

- Voltages are do with respect to ground unless otherwise noted.
- Readings are taken in playback mode (indicated by) with a VOM (20 kΩ/V). []: record mode

W: STOP

▶: FORWARD

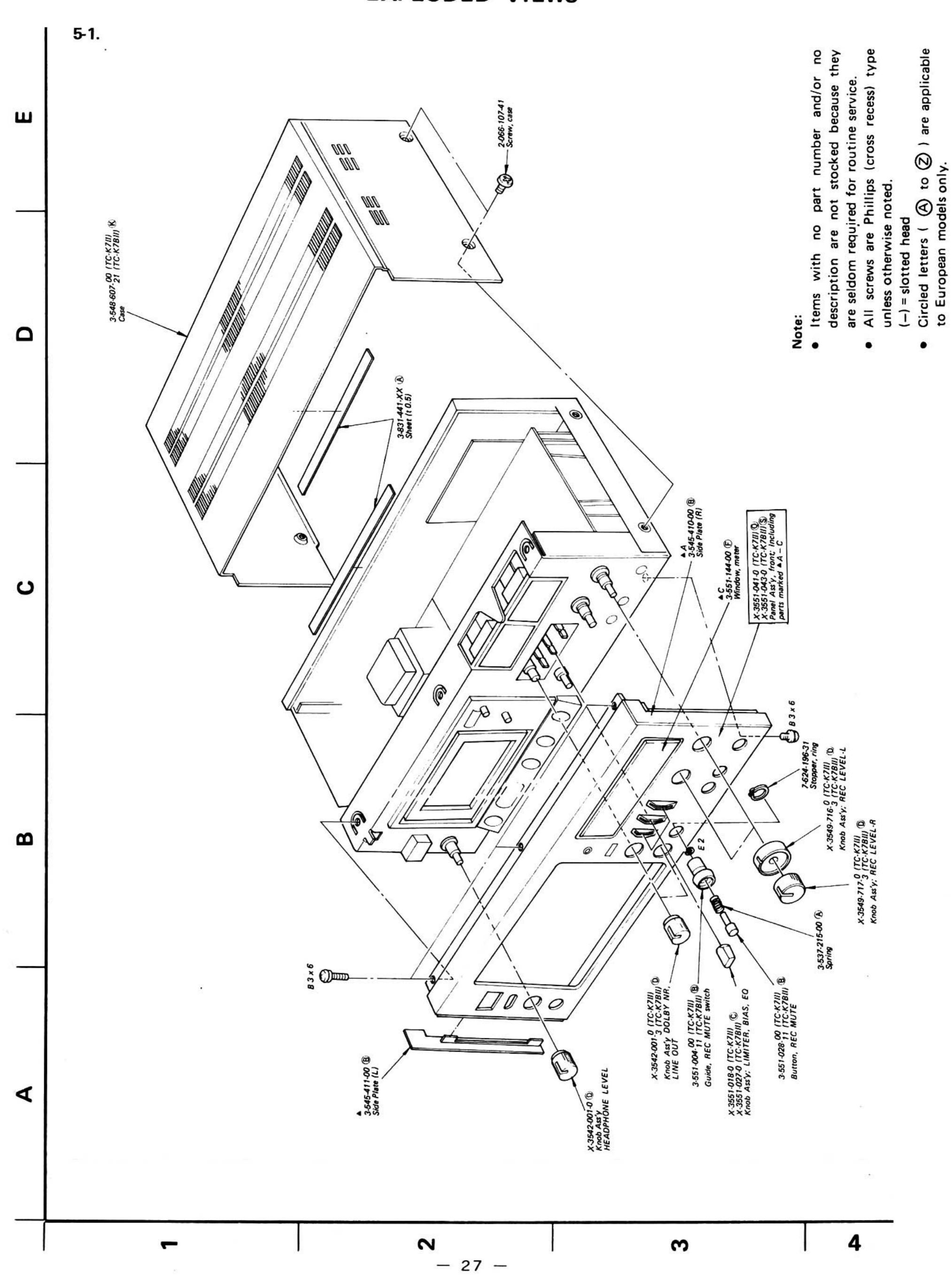
FAST FORWARD

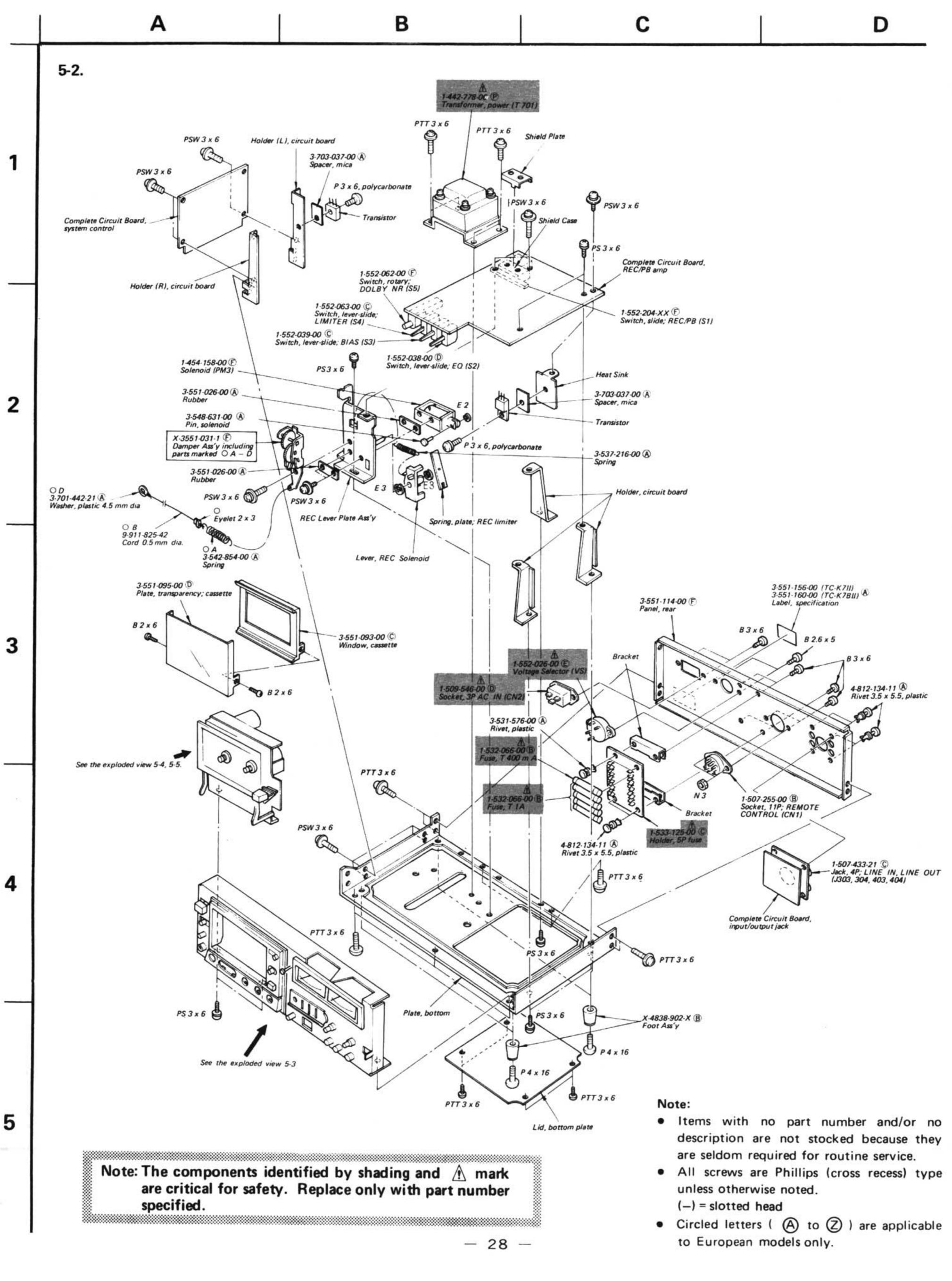
44: REWIND 11: PAUSE . RECORD

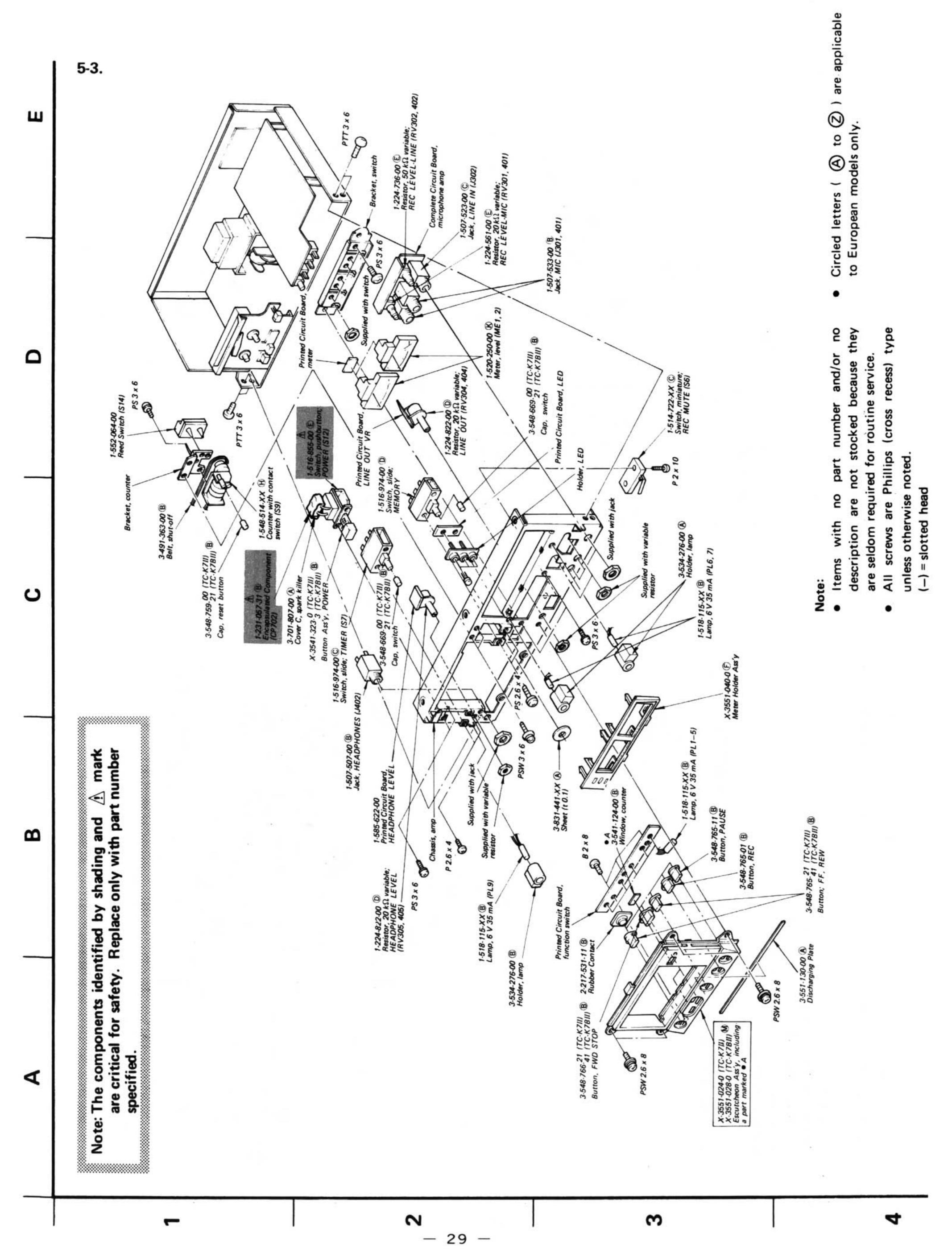
Switch

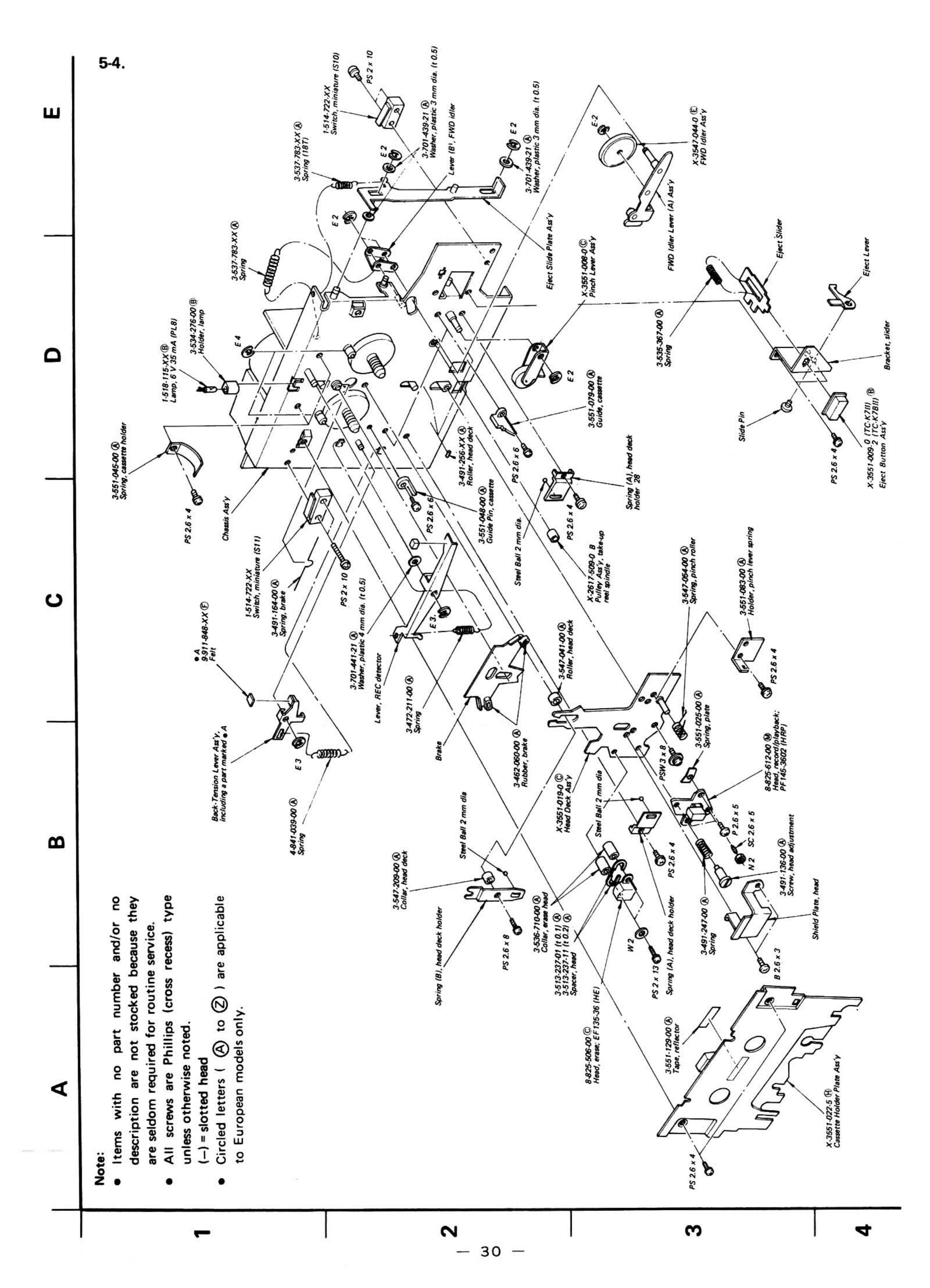
Ref. No.	Switch	Position
S6	REC MUTE	OFF
S7	TIMER	OFF
S8	MEMORY	OFF
S9	TAPE COUNTER	OFF
S10	CASSETTE	OFF
S11	ERASURE PROOF	OFF
S12	POWER	OFF
S13	FUNCTION	OFF
S14	ROTATION DETECT	OFF

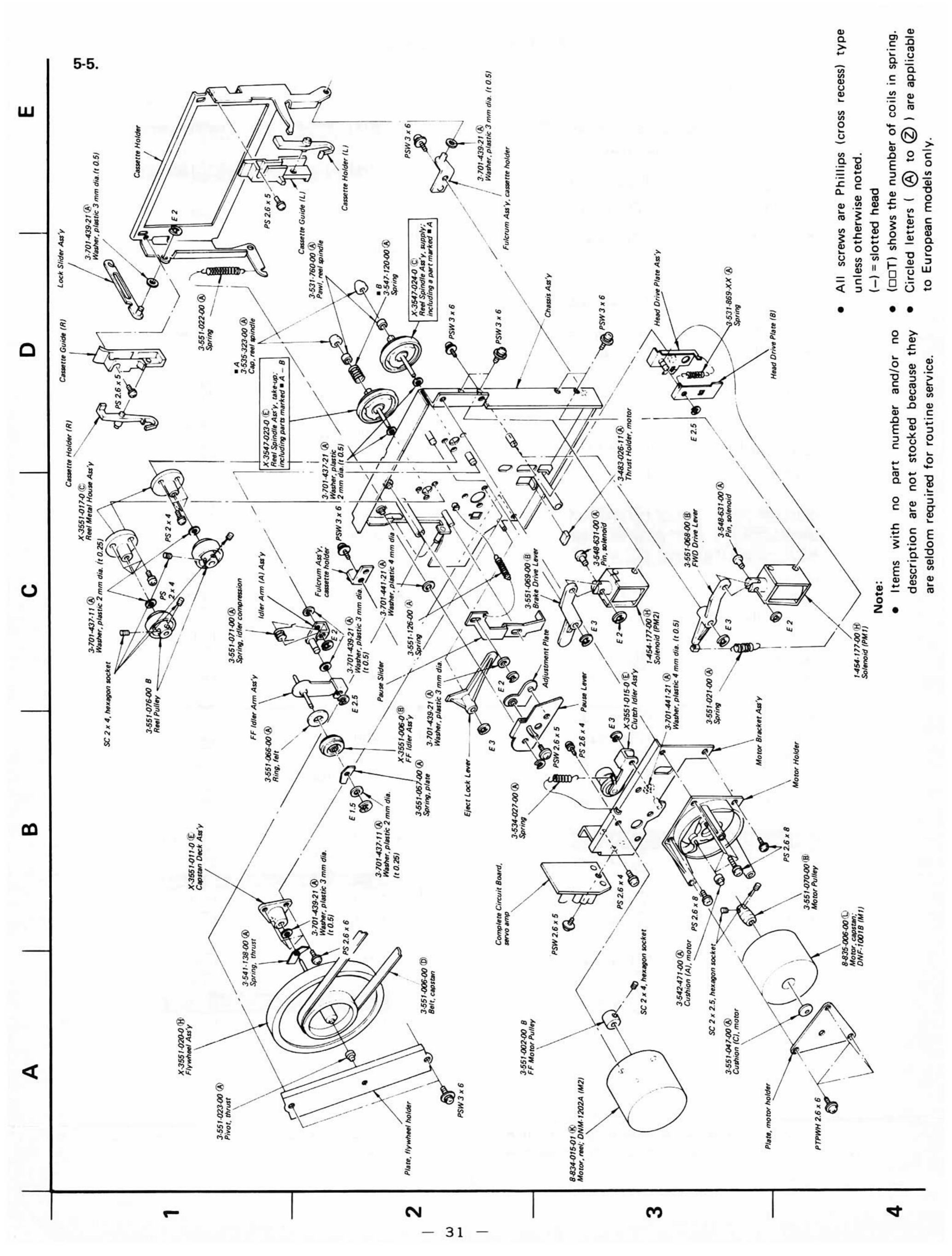
SECTION 6 EXPLODED VIEWS











Note: Circled letters (A to Z) are applicable to European models only.

SECTION 6 ELECTRICAL PARTS LIST

Ref. No.	Part No. Description	Ref. No.	Part No.	Description
$\Rightarrow \frac{Q101, 201}{Q102, 202})$	SEMICONDUCTORS Transistors B 2SC632A	Q732 ⇒ Q733 ⇒ Q734		© 2SC1173 © 2SA678 © 2SA678
⇒ Q103, 203	B 2SC634A			ICs
$\Rightarrow \frac{Q104 - 107}{Q204 - 207}$	B 2SC632A	⇒ IC601		FCX065A
$\Rightarrow \frac{Q108 - 111}{Q208 - 211}$	B 2SC634A	⇒ IC701		JCX738A
⇒ Q112, 212 ⇒ Q113, 213	B 2SC632A C 2SA678			Diodes
$\Rightarrow \frac{Q114 - 120}{Q214 - 220}$	(D)28C6244	⇒ D101, 201 ⇒ D102, 202		B 10E2 B 1S1555
$\Rightarrow \frac{Q301 - 304}{Q401 - 404}$	B 2SC634A	⇒ D103, 104 D203, 204		BEQB01-11Z
$\Rightarrow Q305, 405$	B 2SC632A	⇒ D105, 205		B 1T22AM
Q501 Q502	A B)2SK30A A B)2SC634A	D301, 401 D302, 402 D303, 403		B 1T22AM
Q503 ⇒ Q504, 505	(B) 2SC634A	D303, 403 D304, 404		B 1S1555
$\Rightarrow Q506$ $\Rightarrow Q507 - 509$	© 2SC1475 (B) 2SC634A	⇒ D501 ⇒ D502		B EQB01-12Z B 1S1555
⇒ Q601, 602	(B) 2SC634A	D503 - 505		CSLP24B (LED)
⇒ Q603	©2SC1760	⇒ D601 D602		B) 1T22AM B) MV203V
$\Rightarrow Q701 - 710$ $Q711$	B) 2SC634A (C) 2SC1475	⇒ D701, 702		(B) 1S1555
$\Rightarrow Q712$ $Q713 - 715$	B 2SC634A	⇒ D703 ⇒ D704 - 708		B 1T22AM
Q715 - 713 Q716, 717	(C) 2SC1475 (B) 2SC634A	$\Rightarrow D704 - 708$ $\Rightarrow D709 - 720$		(B) 1S1555 (B) 1S1555
Q718 ⇒ Q719	(B) 2SC1061 (B) 2SC634A	⇒ D722 ⇒ D723 - 727		B) 10E2 B) 1S1555
Q720	©2SA684	⇒ D728, 729	A	B10E2
$Q721 \Rightarrow Q722 - 727$	(C)2SC1475 (B)2SC634A	⇒ D730 ⇒ D731 - 733		(B)EQB01-15 (B)1S1555
Q728 ⇒ Q729	B) 2SC634A B) 2SC634A	D734 ⇒ D735 – 738		B10E2
Q730	©2SC1475	⇒ D739 – 746		B)1S1555 B)10E2
⇒ Q731	(B) 2SC634A	⇒ D747		BEQB01-07

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

^{⇒:} Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

					200					
Ref. No.	Part No.	Descrip	otion			Ref. No.	Part No.	Descrip	otion	
D748		(B) 10E2				C116, 216	1-121-391-11	(A)1	50 V	elect
D749 - 75	i	(B) 1S1555				C117, 217	1-108-589-12	\times		mylar
D147 - 15.	•	(B) 151555				C118, 218	1-108-230-12	\simeq		mylar
		OILS				C119, 219		\simeq	25 V	elect
		OILS				C119, 219		\simeq	50 V	elect
T 101 201	1-407-879-00	@22 mu .	mioroina	luotor	4	C120, 220	1-121-430-11	A) 2.2	30 V	Cicci
L101, 201		\simeq				C121 221	1 102 106 11	A100 n		
L102, 202	1-407-240-00	\simeq				C121, 221	1-102-106-11	\simeq	1037	alaat
L103, 203	1-407-199-XX	$\mathbf{\times}$				C122, 222	1-121-414-11	\succeq	10 V	elect
L104, 204	1-407-197-XX	\times				C123, 223	1-102-956-11	\sim	1637	1
L105, 205	1-407-204-XX	(B) 6.8 mH,	microin	ductor		C124, 224	1-121-651-11		16 V	elect
	e delice e di la traffica	\sim	88 923 98	20		C125, 225	1-121-398-11	(A) 10	25 V	elect
L501, 502	1-407-211-XX	(B) 27 mH, 1	microind	iuctor		150 20 20		O		
						C126, 226	1-121-392-11	\times	25 V	elect
	TRAN	SFORMERS				C127, 227	1-121-416-11	\times	25 V	elect
*						C128, 228	1-121-651-11	\simeq	16 V	elect
T101, 201	1-427-284-00	B Output				C129, 229	1-121-398-11	\sim	25 V	elect
		Text to a final fi				C130, 230	1-102-108-11	A) 150 p		
T501	1-433-132-11	© osc						1927: 14 — 1		
						C131, 231	1-102-956-11	A 15 p		
T701	1-442-778-00	(P) Power				C132, 232	1-121-391-11	A 1	50 V	elect
在各种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种	三世界的任务 的研究于1990年1990年1990年	- December 17 (ALCOHOL)				C133, 233	1-108-252-12	B 0.15		mylar
	CAP	ACITORS				C134, 234	1-121-409-11	(A) 47	16 V	elect
						C135, 235	1-121-450-11	(A) 2.2	50 V	elect
All capacito	ors are in µF and	ceramic unle	ess other	rwise noted.				•		
50WV or le	ss are not indicat	ted except fo	or electro	olytics.		C136, 236	1-121-651-11	A 10	16 V	elect
	elect = electrolyt	1774		252		C137, 237	1-108-587-12	B 0.018		mylar
• • • • • • • • • • • • • • • • • • • •	Address (1964) — Fire the religion (1967) T abus		ži)			C138, 238	1-108-559-12	B) 0.068		mylar
C101, 201	1-121-404-11	(A) 33	25 V	elect		C139, 239	1-108-587-12	(B) 0.022		mylar
C102, 202		\times	25 V	elect		C140, 240	1-108-559-12	\sim		mylar
C103, 203	1-121-398-11	\sim	25 V	elect						
C104, 204		\simeq		silvered mica		C141, 241	1-108-585-12	(B) 0.018		mylar
C104, 204		\times .	100 V	polyethylene		C142, 242	1-121-416-11	\times	25 V	elect
0100, 200	. 127 /7411	90.0033		F , 5 , 10		C142, 242	1-121-395-11	\leq	25 V	elect
C106, 206	1-108-569-12	(R) 0 0020		mylar		C144, 244	1-121-450-11	\sim	50 V	elect
C100, 200	1-108-563-12	$\boldsymbol{\times}$		mylar		C145, 245	1-121-395-11	\sim	25 V	elect
	1-108-303-12	\times	10 V	elect		0173, 273	1 121 373-11	9 4.7	20.1	
C108, 208		\simeq		elect		C146, 246	1-102-106-11	A 100 p		
C109, 209	1-121-398-11 1-102-110-11	A 10	25 V	CICCI		CAROLINES, LOURS & HETTCHOOLIS PER			25 W	alact
C110, 210	1-102-110-11	A) 220 p				C147, 247		•	25 V	elect
		O				C148, 248 C149, 249	1-121-391-11	(A) 1	50 V	elect
C111, 211	1-102-106-11	\sim				C149, 249		•		
C112, 212		\times		2 22.0		NAMES OF STREET		0		()-(())-(()-(())-(())-(())-(())-(())-(
C113, 213		\sim	6.3 V	elect		C301, 401	1-129-701-11	\times		polyetl
C114, 214		\simeq	10 V	elect		C302, 402		\times		
C115, 215	1-130-072-11	(B) 0.022	100 V	polyethylene		C303, 403	1-129-899-11	B 0.056	100 V	polyeth

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

Note: Circled letters ($\widehat{\mathbb{A}}$ to $\widehat{\mathbb{Z}}$) are applicable to European models only.

Ref. No.	Part No.	Descrip	otion		Ref. No.	Part No.	Descr
C304, 404	1-108-573-12	(A) 0.0056		mylar	C706	1-121-395-11	(A) 4.7
C305, 405	1-102-943-11	\simeq		Jan Service No.	C707 - 710	1-161-013-11	\times
		•			C711	1-161-021-11	(A) 0.047
C306, 406	1-121-651-11	(A) 10	16 V	elect	C712	1-161-013-11	(A) 0.01
C307, 407	1-129-794-11	\simeq		polyethylene	C713	1-161-019-11	\sim
C308, 408	1-131-217-11	\simeq	35 V	tantalum			0
C309, 409	1-131-197-11	\sim	16 V	tantalum	C714	1-161-013-11	\bigcirc 0.01
C310, 410	1-108-571-12	$\overline{}$		mylar	C715	1-161-025-11	\simeq
0310, 110	1 100 0 11 12			,	C716, 717	1-121-479-11	_
C311 411	1-121-410-11	(R)47	25 V	elect	C718	1-121-352-11	\sim
C312, 412	1-102-074-11	\simeq	20 1	Cicci	C719	1-121-726-11	\sim
C313, 413	1-121-748-11	\sim	25 V	elect	0/15	1-121-720-11	(A) 0.47
C314, 414	1-121-916-11	\simeq	16 V	elect	C720	1-121-352-11	(A) 47
C315, 415	1-102-115-11	\simeq	10 4	Cicci	7 (47 (27 (27 (27 (27 (27 (27 (27 (27 (27 (2	1-121-986-11	\sim
C313, 413	1-102-115-11	(A) 300 p			C721		\times
0501	1 121 422 11	(D) 220	25 1/	alaat	C722	1-121-654-11	\simeq
C501	1-121-422-11	\simeq	25 V	elect	C723	1-121-975-11	\sim
C502, 503	1-121-398-11	\simeq	25 V	elect	C724	1-121-392-11	(A) 3.3
C504	1-131-218-11	\simeq	35 V	tantalum			O 10
C505	1-108-377-12	\sim	100 V	mylar	C725	1-121-968-11	\simeq
C506	1-108-380-12	(A) 0.018	100 V	mylar	C726	1-121-986-11	(A) 2.2
		0000	(2011		C727	1-121-976-11	(A) 100
C507		\times	630 V	polyethylene	完全的对象的现在分词是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	1-123-067-11	医线》 《学说过去说过是在的思想
C508, 509	1-141-010-XX	\succeq		trimmer	C730, 731 /	1-123-061-11	(C)1000
C510, 511	1-107-037-11	\sim	500 V	silvered mica			~
C512, 513	1-107-137-11	\sim		silvered mica	SHE SHIP SHEEP PERSON SHEEP PERSON PERSON SHEEP	1-121-944-11	SAN AND AND SOLUTION OF
C514, 515	1-107-165-11	(A) 56 p	500 V	silvered mica	C734, 735	1-121-420-11	\simeq
		<u> </u>			C736	1-121-392-11	\sim
C516	1-121-395-11	(A) 4.7	25 V	elect	C737	1-121-391-11	\simeq
	TO MARKETON CONTRACTOR DISCRESS				C738	1-161-013-11	(A) 0.01
C601	1-121-651-11	\simeq	16 V	elect			
C602	1-108-583-12	\times		mylar	C739	1-121-352-11	(A) 47
C603	1-130-134-11	\sim	100 V	polyethylene			
C604	1-121-398-11	\sim	25 V	elect		RE	SISTORS
C605	1-121-986-11	\bigcirc 2.2	50 V	elect			
		_			All resistors	are in ohms. C	ommon 1/41
C606	1-121-395-11	A) 4.7	25 V	elect	omitted. Ch	eck schematic	diagram fo
C607	1-121-990-11	A) 22	16 V	elect	DESCRIPTION OF THE PARTY AND A STREET, ASSAULT	NAMES OF THE PARTY	CONTRACTOR CONTRACTOR
C608	1-121-395-11	A 4.7	25 V	elect	R157, 257	1-213-141-11	A 680
					R181, 281	1-213-137-11	A 330
C701	1-161-019-11	A 0.033		(boundary layer)			
C702	1-131-201-11	B) 22	16 V	tantalum	R504	1-214-153-11	B 7.5 k
C703	1-121-990-11	A 22	16 V	elect	R505	1-214-155-11	A 9.1 k
C704	1-121-479-11	A 22	16 V	elect	R506	1-217-402-11	B 180
C705	1-161-025-11	B 0.1		(boundary layer)	NEW TRANSPORTERS DESTRICTED TO	THE RESIDENCE OF SECURITIES AND SECURITIES.	
					R601	1-214-173-11	B 51 k
					æ₁		

Ref. No.	Part No.	Descrip	otion	
C706	1-121-395-11 (A) 4.7	25 V	elect
	>	A) 0.01	20 ,	(boundary layer)
C711		A) 0.047		(boundary layer)
C712		A) 0.01		(boundary layer)
C713	1-161-019-11	A) 0.033		(boundary layer)
0,10		9		(0000000)
C714	1-161-013-11	A) 0.01		(boundary layer)
C715	1-161-025-11 (B) 0.1		(boundary layer)
C716, 717	1-121-479-11 (A) 22	16 V	elect
C718	1-121-352-11	A) 47	$10\mathrm{V}$	elect
C719	1-121-726-11	A) 0.47	50 V	elect
C720	1-121-352-11 (A) 47	10 V	elect
C721	1-121-986-11 (A) 2.2	50 V	elect
C722	1-121-654-11 (B 330	25 V	elect
C723	1-121-975-11 (A) 47	10 V	elect
C724	1-121-392-11	A) 3.3	25 V	elect
C725	1-121-968-11 (A) 10	16 V	elect
C726	1-121-986-11 (A) 2.2	50 V	elect
C727	1-121-976-11 (A) 100	10 V	elect
C728, 729	<u> </u>	D 2200	25 V	elect
C730, 731	<u> </u>	C)1000	50 V	elect
- Block 724	roghts realist with		4000年	STATE OF THE PARTY
C732, 733	<u> </u>	E)1000	16 V	elect
C734, 735	1-121-420-11 (B) 220	10 V	elect
C736	1-121-392-11 (A) 3.3	25 V	elect
C737	1-121-391-11 (A 1	50 V	elect
C738	1-161-013-11 (\bigcirc 0.01		(boundary layer)
C739	1-121-352-11 (A) 47	10 V	elect
	RES	ISTORS		
All resistors	s are in ohms. Con	mmon ¼W	carbor	resistors are
omitted. C	heck schematic di	agram for	their va	alues.
The second	A 1 212 141 11 /	(A) (COO)	1 37	
	<u> </u>		1 W	metal oxide
K101, 201	<u>M</u> 1-213-13/-11 (A) 330	1 W	metal oxide
R504	1-214-153-11 (B) 7.5 k	1/4 W	1% metal oxide
R505	1-214-155-11 (A) 9.1 k		1% metal oxide
R506	A1-217-402-11 (B)180	1/4 W	fusible
15 A Carolin Chistic				

1/4 W

metal oxide

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

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Descri	ption	
R602	1-244-875-11	(A)1.2 k	½ W	carbon
R609	1-217-375-11		1/4 W	fusible
	A			
SOLUTION STATE OF THE PARTY OF	1-213-147-11 $1-217-383-11$			% metal oxide
	1-217-383-11			% fusible
ELHONOUS ENGINEER	1-217-399-11		5 W	% fusible wirewound
	1-217-379-11			% fusible
		9 2.2	/ 4 II J	70 Tusiole
	1-206-471-11		2 W 59	% metal oxide
THE REPORT OF THE PARTY OF THE	1-217-465-11		1 W	fusible
The second secon	1-217-371-11	Mary and the property of the party of the pa	14 W	fusible
R805	1-244-871-11	(A) 820	½ W	carbon
R811 /	1-217-383-11	B 4.7	14 W 5	% fusible
PV101 201	1-224-645-XX	(D101-1		
	1-224-646-XX			
	1-224-642-XX			
	1 22 1 0 12 7676	D I K, auju	istable	
RV301, 401	1-224-561-00	E 20 k, var	riable; R	EC LEVEL MIC
RV302, 402	1-224-736-00	E 50 k, vai	riable; R	EC LEVEL LINE
RV304, 404) 1-224-822-00	(M)20 k va	riahla: T	INE OUT
RV305, 405	, 1 22 . 022 00	HEAD!	PHONE.	LEVEL
				LUVLL
RV601	1-224-491-00	B 22 k, adj	ustable	
	sw	ITCHES		
C1		_		
S1 S2	1-552-204-00	\succeq		
S3	1-552-038-00 1-552-039-00	D Lever-sli		,
S4	1-552-063-00	C)Lever-sli C)Lever-sli		
S5	1-552-062-00	F) Rotary,	277	THE STATE OF
	2 002 002 00	Colored by,	DOLBI	IVIX
S6	1-514-722-XX	O Miniatur	e, REC	MUTE
S7, 8	1-516-974-00	_		
S9	1-548-514-XX	*		
S10, 11	1-514-722-XX(C)Miniature	e; Casset	te/Accidental
010		Erasure	AND REAL PROPERTY.	Destroyage
S12 /	1-516-855-00 (E)Pushbutt	on, POV	VER

1-552-064-00 E Reed, rotation detection

S14

Ref. No.	Part No.	Description
		JACKS
J301, 401	1-507-533-00	(B)MIC
J302	1-507-523-00	CLINE IN
J303, 403 J304, 404		©4p; LINE IN, LINE OUT
J402	1-507-507-00	BHEADPHONES
VS /	1-552-026-00	E Voltage Selector

FUSES

F1	▲1-532-066-00	B	T400 mA
F2 - 5	<u>1-532-078-00</u>		

MISCELLANEOUS

CN1	1-507-255-00 (B) Socket, 11 p; REMOTE CONTROL
CN2	1-509-546-00 D Socket, 3 p AC IN
CN101	1-509-549-00 B Connector, REC/PB
CP701	1-231-057-31 BEncapsulated Component
CP702	1-231-057-31 B Encapsulated Component
HE	8-825-506-00 C Head, erase; EF135-36
HRP	8-825-612-00 M Head, record/playback; PF145-3602
M1	8-835-006-00 (L) Motor, DNF1001B; capstan
M2	8-834-015-01 (K) Motor, DNM1202A; reel
ME1, 2	1-520-250-00 (K) Meter, level
PL1 - 9	1-518-115-XX B Lamp, 6 V 35 mA
PM1, 2	1-454-177-00 (H) Solenoid; head base, brake
PM3	1-454-158-00 F Solenoid; record
RL101	1-515-267-00 F Reel Relay
	1-533-125-00 C Holder, 5 p fuse

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

ACCE	ACCESSORIES & PACKING MATERIALS							
Part No.	Description							
X-3549-745-0	Cushion (top) Ass'y							
X-3701-105-0	(A) Tips Ass'y, head cleaning							
1-534-049-31	F Cord, connection; RK-74H							
1-534-754-00	(E model) (E model)							
1-551-216-00	(E model)							
3-429-126-00	B Bag, plastic; set (TC-K7II)							
3-451-250-00	A Sticker, loading							
3-548-780-00	C Cushion							
3-548-781-00	C Cushion							
3-551-158-00	F Carton (TC-K7II)							
3-551-161-00	F Carton (TC-K7BII)							
3-701-630-00	A Bag, plastic; printed matters							
3-701-684-11	A Card, power requirement							
3-770-355-11	F Manual, instruction							
3-793-749-11	B Card, Dolby cassette							
3-793-828-11	A Card, caution; cassette							
4-837-003-00	© Bag, plastic; set (TC-K7BII)							

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	
1.1	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	
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		1-244-723-11	0.0000000000000000000000000000000000000	Construction of the last
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		1-244-724-11		
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		1-244-725-11	0.07 (0.000)	
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6 k	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	18	1-244-631-11	180	1-244-655-11	1.8k	1-244-679-11	18 k			1-244-737-11		
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0k	1-244-680-11	20 k	1-244-704-11		1-244-728-11		
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22 k	1-244-705-11		1-244-729-11		
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		1-244-730-11		
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7k	1-244-683-11	27 k	1-244-707-11	270 k	1-244-731-11	2.7M	1-244-755-11
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11	3.0k	1-244-684-11	30 k	1-244-708-11	18.8.	1-244-732-11		
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11	3.3k	1-244-685-11	33 k	1-244-709-11	330 k	to and the same and the same and		
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			
3.9	1-244-615-11	39	1-244-639-11	390			The state of the s		1-244-711-11				
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		Car const			1-244-713-11	1-12-51-01-1	personal for the later of the l		
5.1	1-244-618-11	51	1-244-642-11	510					1-244-714-11				
5.6	1-244-619-11	56	1-244-643-11	560					1-244-715-11		PROFESSION STATES		
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		
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.8 k	1-244-693-11	68 k	1-244-717-11	680 k	1-244-741-11		
7.5	1-244-622-11	75	1-244-646-11	750	1-244-670-11	7.5 k	1-244-694-11	entrance-0	1-244-718-11		ACCUMANTAL STATE		
8.2	1-244-623-11	82	1-244-647-11	820	1-244-671-11	8.2k	1-244-695-11		1-244-719-11	- 1			
9.1	1-244-624-11	91	1-244-648-11	100000000000000000000000000000000000000	1-244-672-11	Annual Property of	ALL CALLS CONTROL OF THE CONTROL OF			- CA / / YOU CO			

Sony Corporation