

AEP Model
UK Model
E Model



STEREO CASSETTE DECK

SPECIFICATIONS

GENERAL

Power Requirements: 110V, 120V, 220V, 240V ac, 50/60 Hz
Power Consumption: 11W
Dimensions: Approx. 440 (w) x 145 (h) x 290 (d) mm
 17 1/4 (w) x 5 3/4 (h) x 11 3/8 (d) inches
Weight: Approx. 6.3 kg, 13 lb 14 oz

TAPE RECORDER SECTION

Track: 4-track 2-channel stereo
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 (NAB)
 30-15,000 Hz \pm 3 dB (NAB)
 30-15,000 Hz (DIN)
 With chromium dioxide cassette
 20-16,000 Hz (NAB)
 30-15,000 Hz \pm 3 dB (NAB)
 30-15,000 Hz (DIN)
 With regular cassette
 20-14,000 Hz (NAB)
 30-13,000 Hz (DIN)

Wow and Flutter: 0.08% WRMS (NAB)
 \pm 0.2% (DIN)

S/N Ratio: DOLBY NR OFF
 With Ferri-Chrome cassette
 58 dB at peak level (NAB)
 56 dB (DIN, 1975 rev.)
 48 dB (DIN, old)
 With chromium dioxide cassette
 54 dB at peak level (NAB)
 DOLBY NR ON
 Improved by 5 dB at 1 kHz, 10 dB
 above 5 kHz

- Continued on next page -

* 'Dolby' and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratory Inc.
 *0 dB = 0.775V

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS 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.

SONY

SERVICE MANUAL

Total Harmonic Distortion: 1.3%

Bias Frequency: 105 kHz

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 k Ω

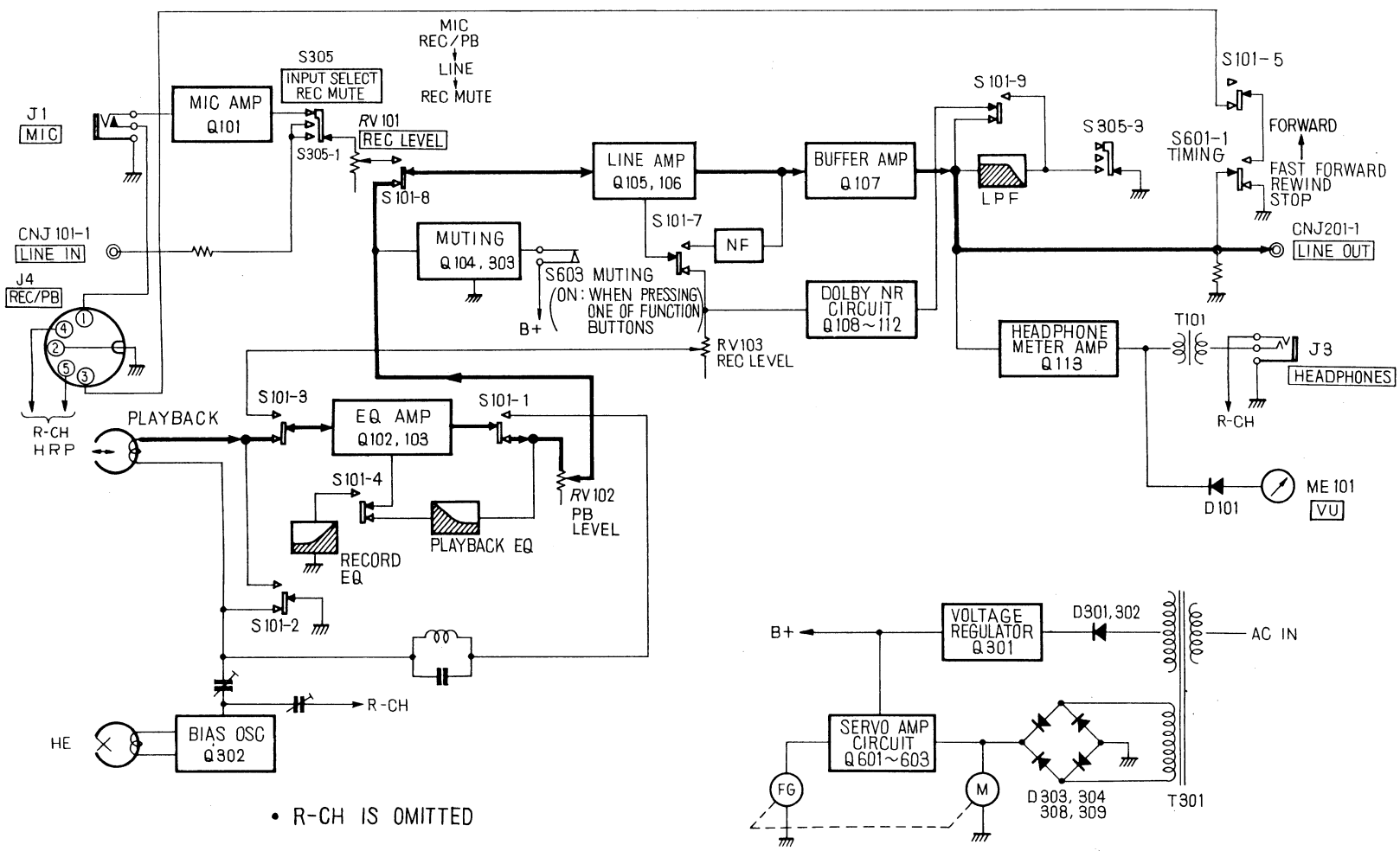
REC/PB (connector)
Input impedance: less than 10 k Ω

Outputs: LINE OUT (two phono jacks)
Normal level: 0.435 V (-5 dB)
Load impedance: 100 k Ω
suitable load impedance more than 10 k Ω

HEADPHONES (binaural jack)
Load impedance: for low-impedance headphones

REC/PB (connector)
Output impedance: less than 10 k Ω

0 dB = 0.775 V



1-1. BLOCK DIAGRAM

SECTION 1
OUTLINE

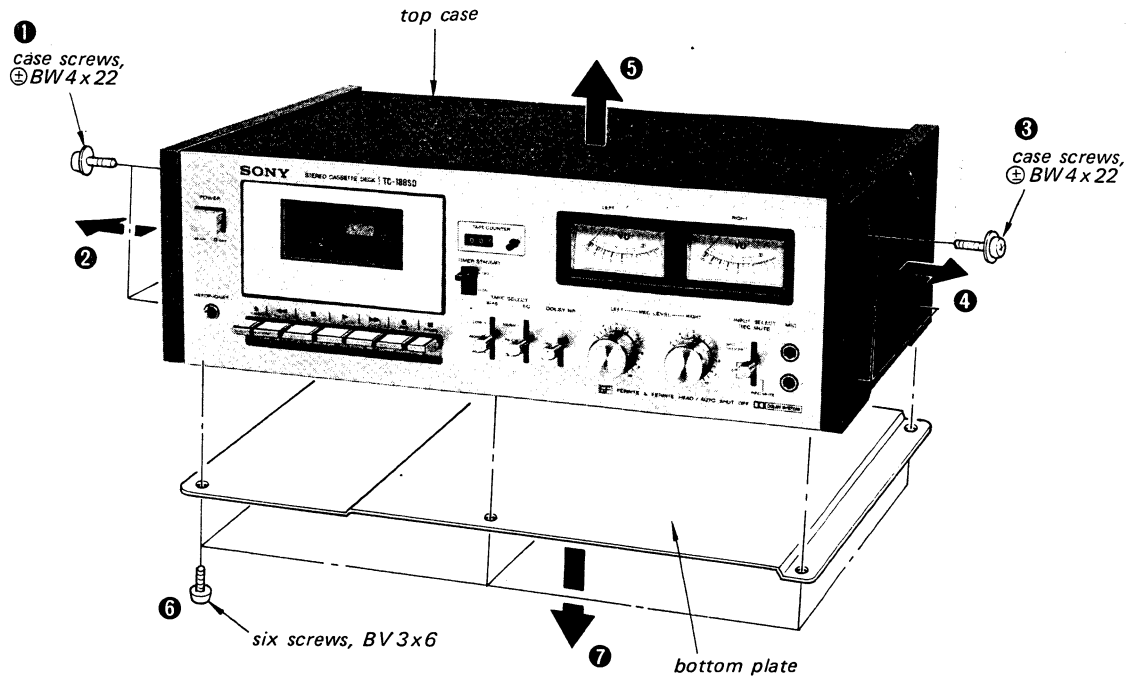
SECTION 2 DISASSEMBLY

2-1. REMOVAL

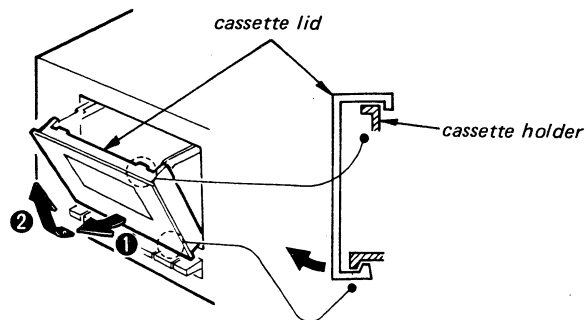
Top Case and Bottom Cover Removal

Top Case Removal: ① - ⑤

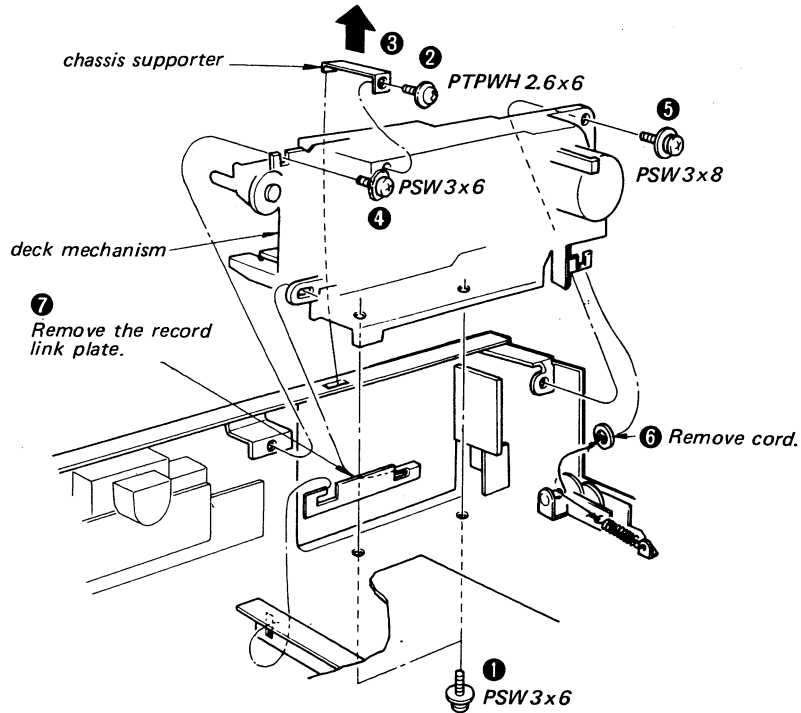
Bottom Plate Removal: ⑥, ⑦



Cassette Lid Removal

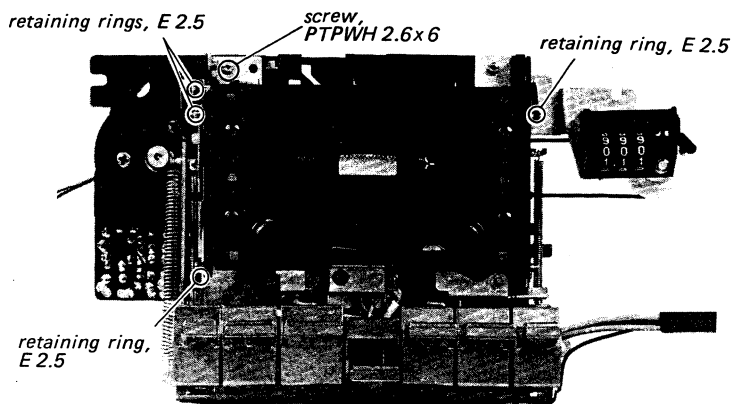


Deck Mechanism Removal

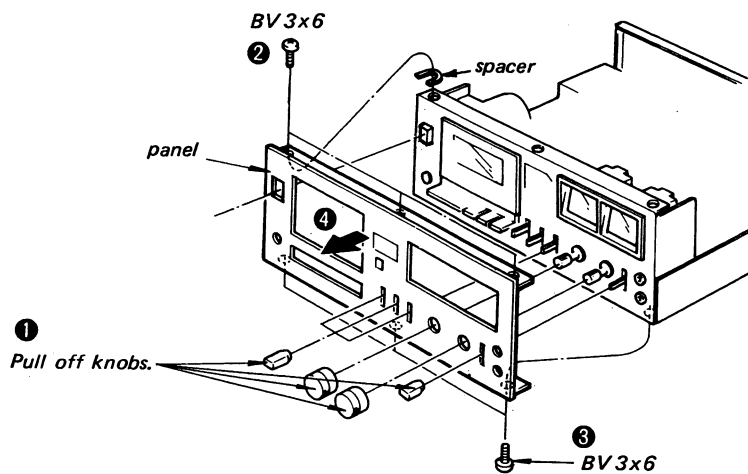


Cassette Holder Removal

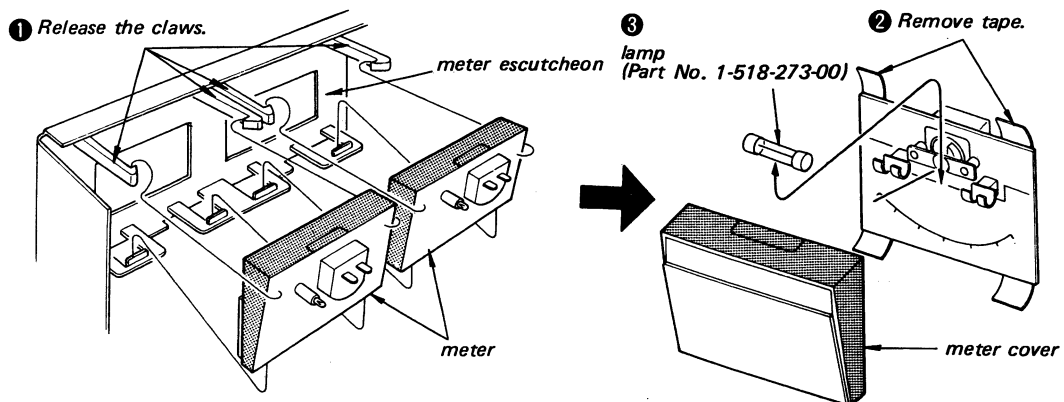
Remove four retaining rings and a screw.



Panel Removal



VU Meter Lamp Removal



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

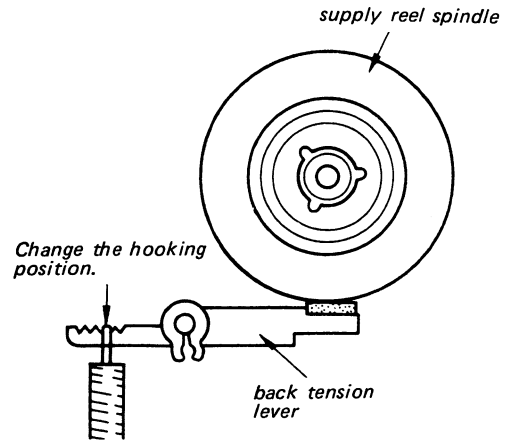
1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
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.

Playback Back Tension Torque Adjustment

— Playback Mode —

Use type CQ-102A cassette torque meter.

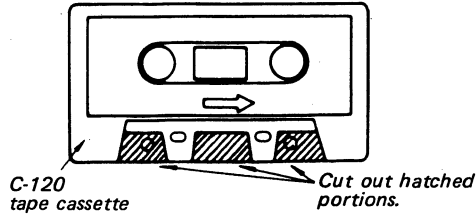


Specification: 2.5–3.5 g·cm
(0.035–0.048 oz·inch)

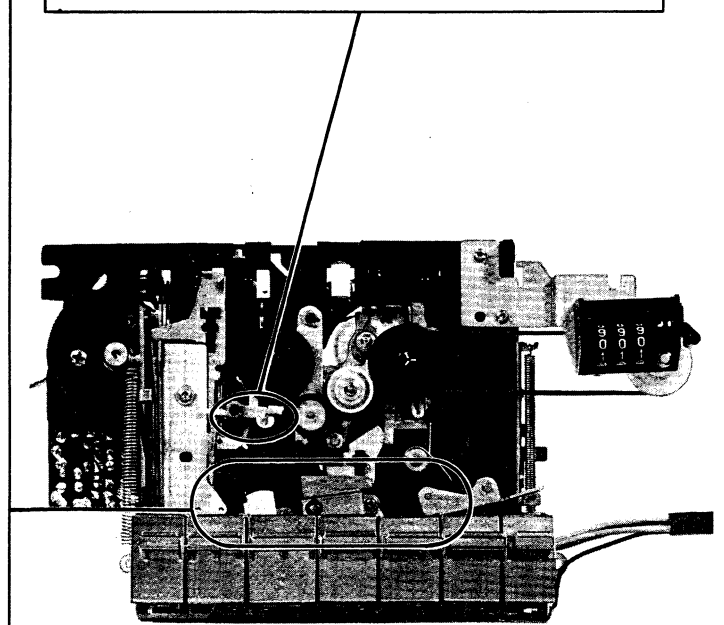
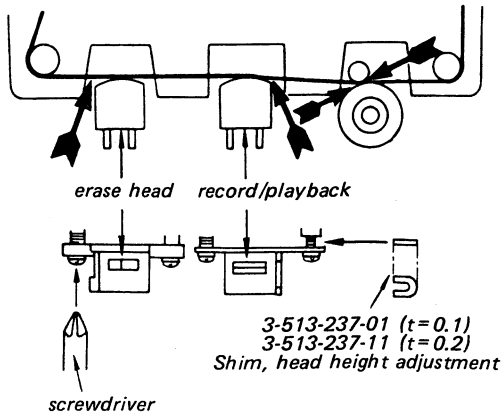
Tape Path Adjustment

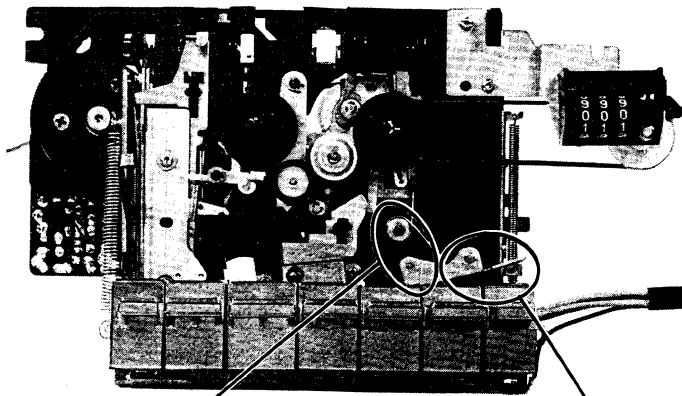
— Playback Mode —

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.

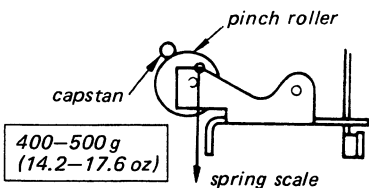




Pinch Roller Pressure Adjustment

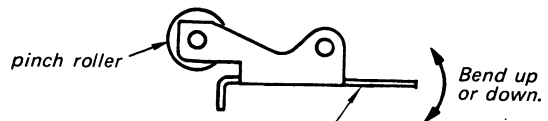
— Playback Mode —

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.

Shut-off Time Measurement

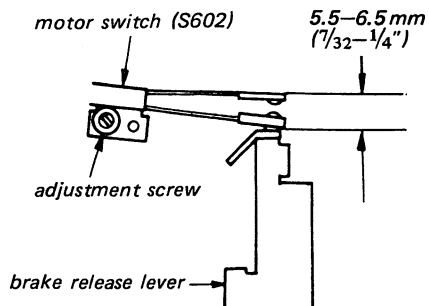
Specification: Within six seconds

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.

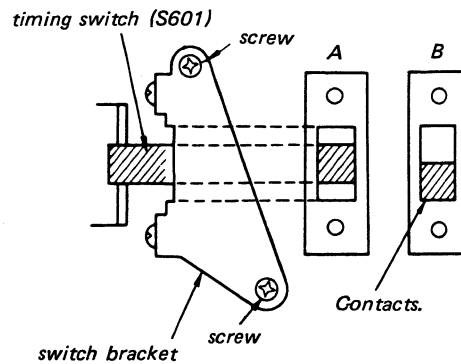


Timing Switch (S601) Position Adjustment

- Stop Mode -

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

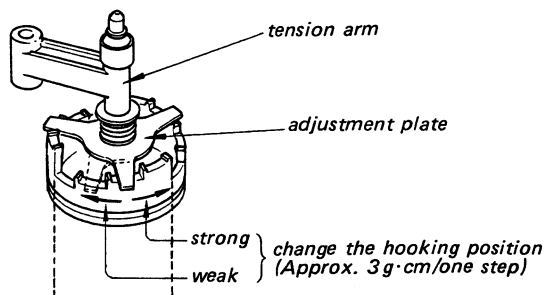
After the adjustment, tighten the screws.



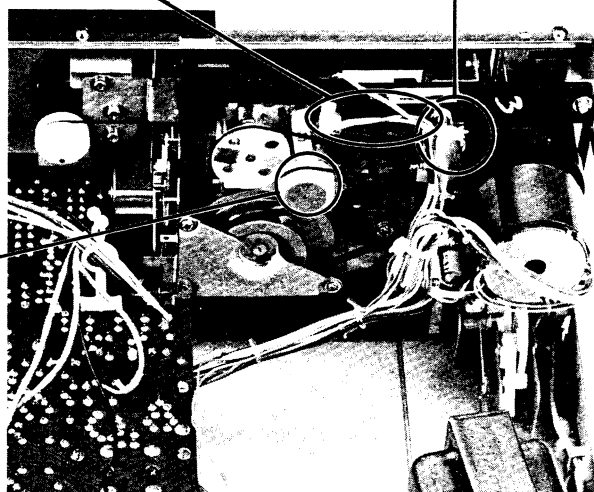
Forward Torque Adjustment

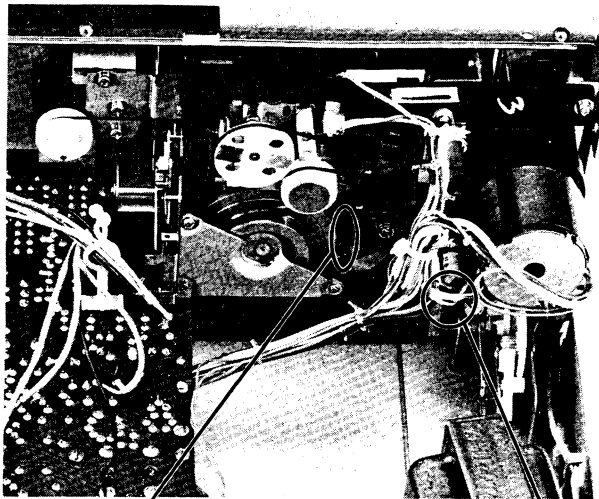
- Playback Mode -

Use type CQ-102A cassette torque meter.



Specification: 28-50 g·cm
(0.39-0.69 oz·inch)

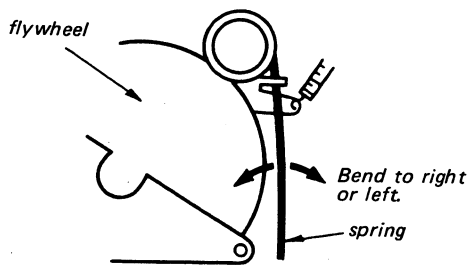




Fast Forward and Rewind Torque Adjustment

– Fast Forward and Rewind Modes –

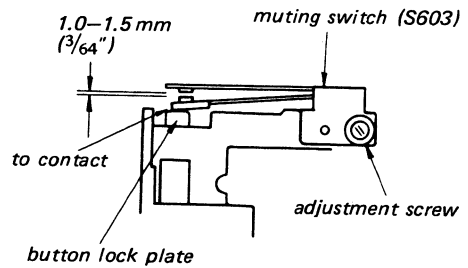
Use type CQ-201A cassette torque meter.
Bend the spring for the torque of 55–95 g·cm
(0.77–1.3 oz·inch).



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	REC/PB
source impedance	300Ω	10 kΩ	100 kΩ
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)	17 mV (-33 dB)

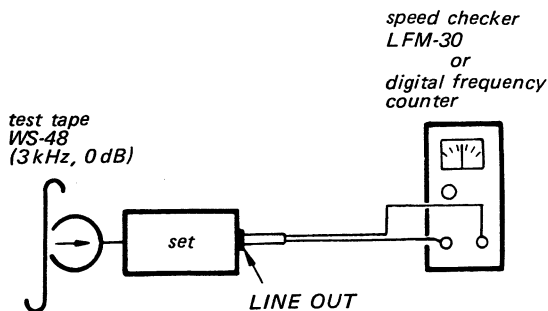
Standard Output Level

	LINE OUT	HEAD-PHONES	REC/PB
load impedance	100 kΩ	8Ω	50 kΩ
output level	0.44 V (-5 dB)	39 mV (-26 dB)	0.44 V (-5 dB)

Tape Speed Adjustment

Procedure:

Mode: Playback



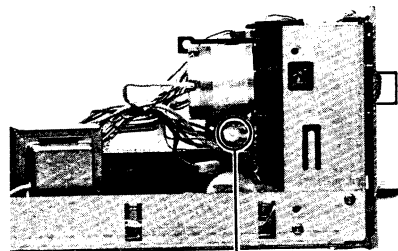
Adjust RV602 to obtain the specified values below.

Specification:

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

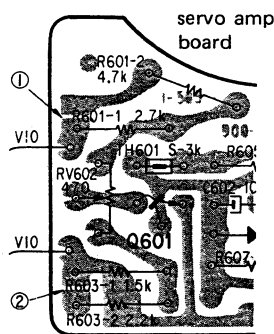
Frequency difference between beginning and end of tape should be within 0.7% (20 Hz).

Adjustment Location:



RV602

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

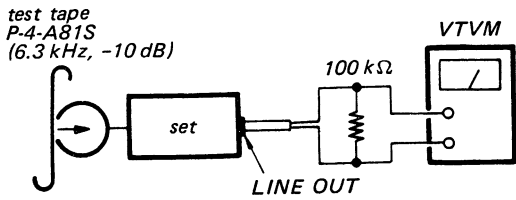


Solder portion	Tape speed
①	up
②	down

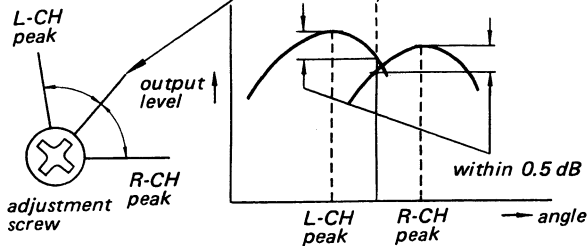
Record/playback Head Azimuth Adjustment

Procedure:

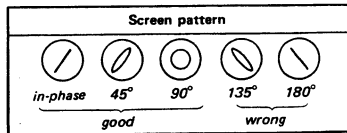
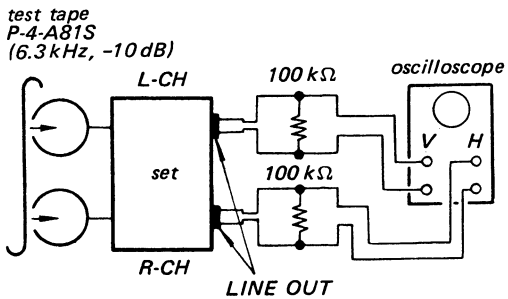
1. Mode: Playback



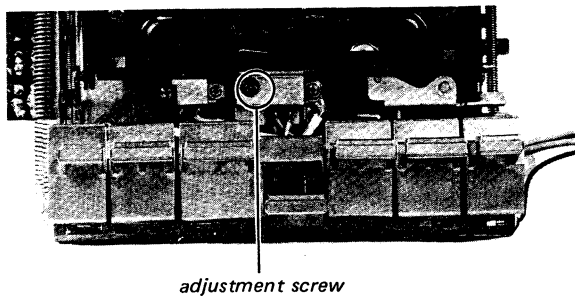
2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak position.



3. Mode: Playback



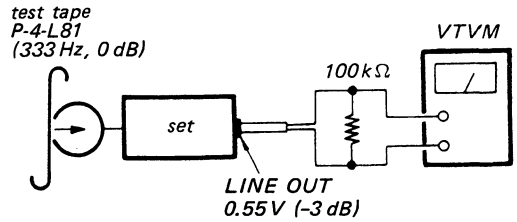
Adjustment Location:



Playback Level Adjustment

Procedure:

1. Mode: Playback



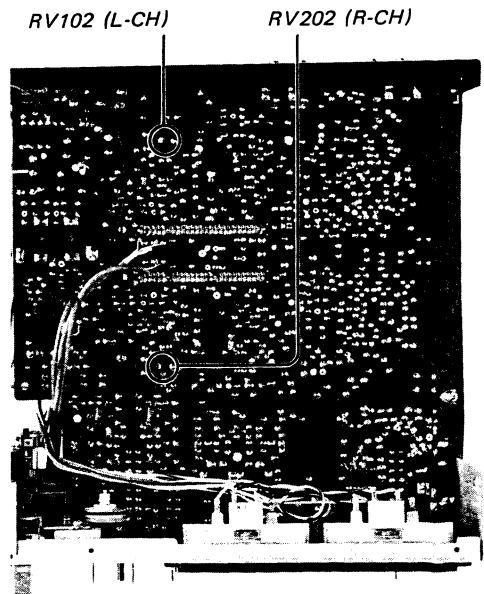
Adjust RV102 (L-CH) and RV202 (R-CH) to obtain 0.55 V (-3 dB) VTVM reading.

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

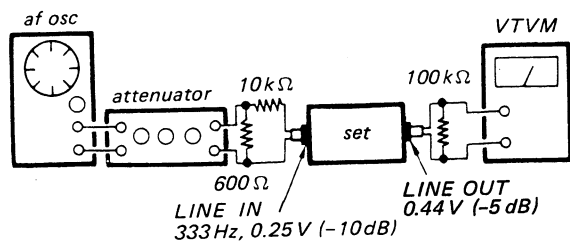
Adjustment Location:



VU Meter Calibration

Procedure:

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



- 2.

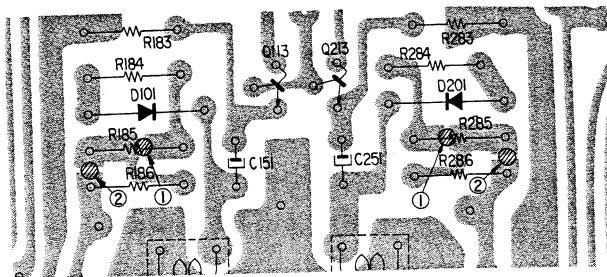
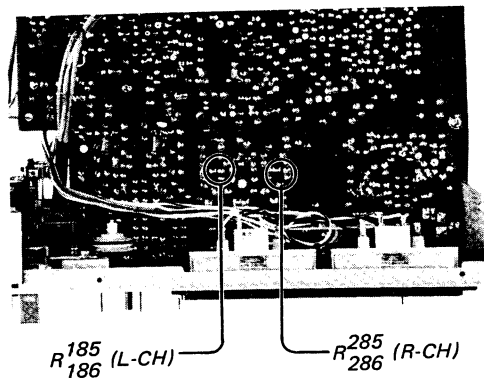
Adjust	VU meter reading: 0 VU
R ₁₈₅ R ₁₈₆	
R ₂₈₅ R ₂₈₆	

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:

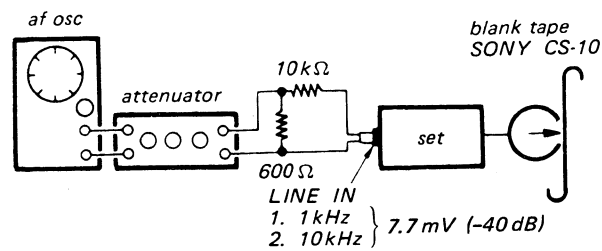


Pattern connection	Pointer deflection
open	down
① or ②	↑ ↓
both ① and ②	

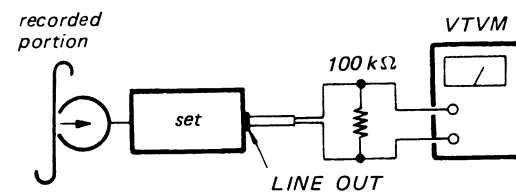
Record Bias Adjustment

Procedure:

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



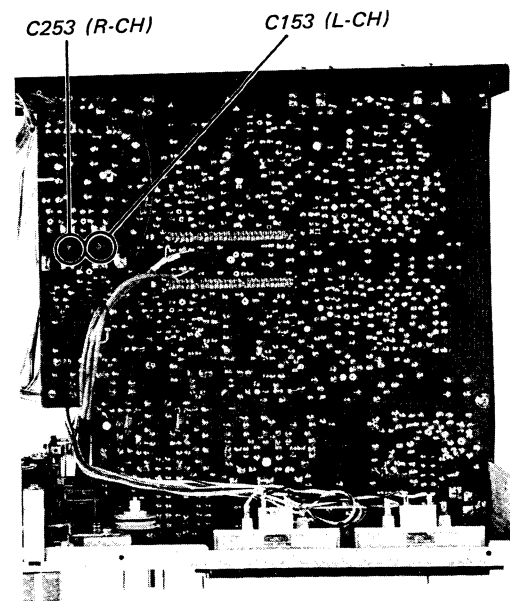
2. Mode: Playback



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 ± 1 dB

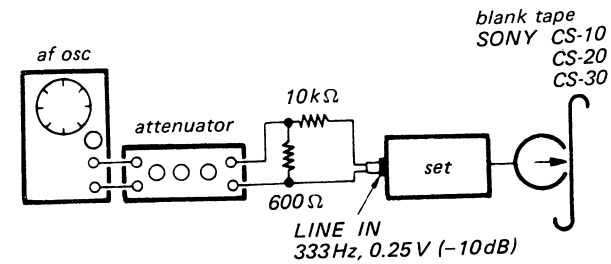
Adjustment Location:



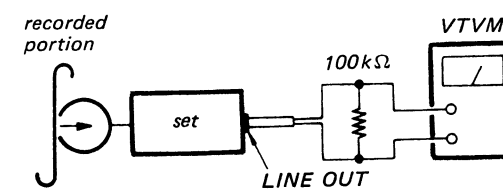
Record Level Adjustment

Procedure:

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



2. Mode: Playback



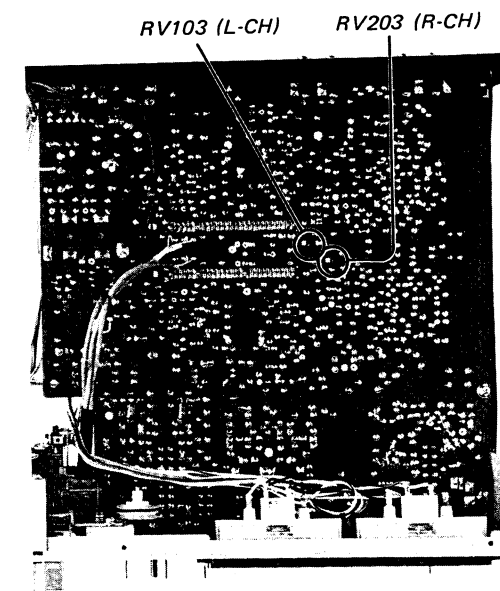
Adjust RV103 (L-CH) and RV203 (R-CH) to obtain 0.44V (-5 dB) VTVM reading.

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 (-4.5 -- -5.5 dB)
CS-20	0.37-0.52V
CS-30	(-3.5 -- -6.5 dB)

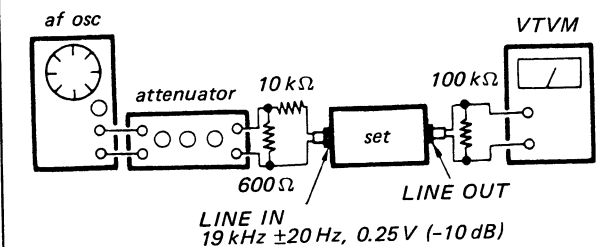
Adjustment Location:



19 kHz Filter Adjustment

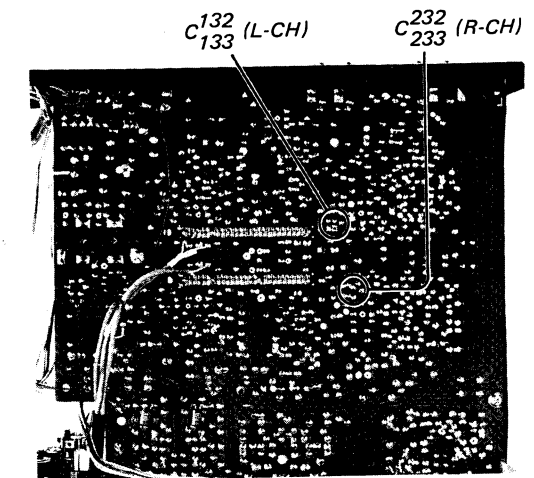
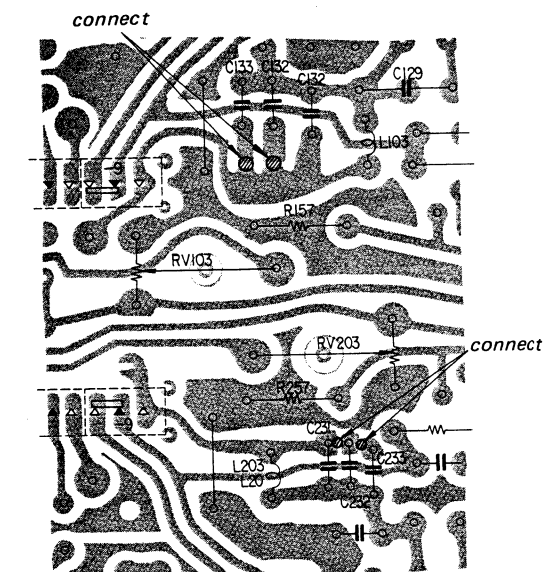
Procedure:

- DOLBY NR switch: ON
Mode: Standard record (See page 11.)



Adjust the pattern connection for a minimum reading on VTVM.

Adjustment Location:



SECTION 4
DIAGRAMS

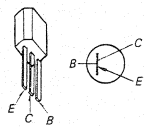
4-1. MOUNTING DIAGRAM

— Conductor Side —

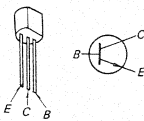
Replacement Semiconductors

For replacement, use semiconductors except in ().

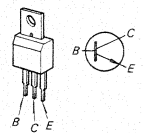
- Q101-103, 105, 109 } 2SC632A (2SC631A)
- Q201-203, 205, 209 } 2SC632A (2SC631A)
- Q104, 106-108, 110-113 } 2SC634A (2SC633A)
- Q204, 206-208, 210-213 } 2SC634A (2SC633A)
- Q303, 601, 602



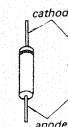
Q302: 2SC1475



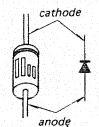
Q301: 2SC1760
Q603: 2SC1761



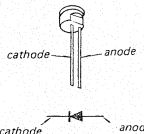
- D101, 201: 1T22A (1T22)
- D102, 104 } 1S1555 (1S2076)
- D202, 204 } 1S1555 (1S2076)
- D103, 203: 1T22A
- D301-304 } 10E2 (10E1)
- D308, 309 } 10E2 (10E1)
- D307, 601: 1S1555 (1T40)



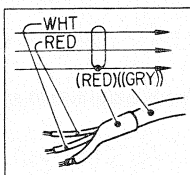
D305: EQB01-21 (EQA01-21R)



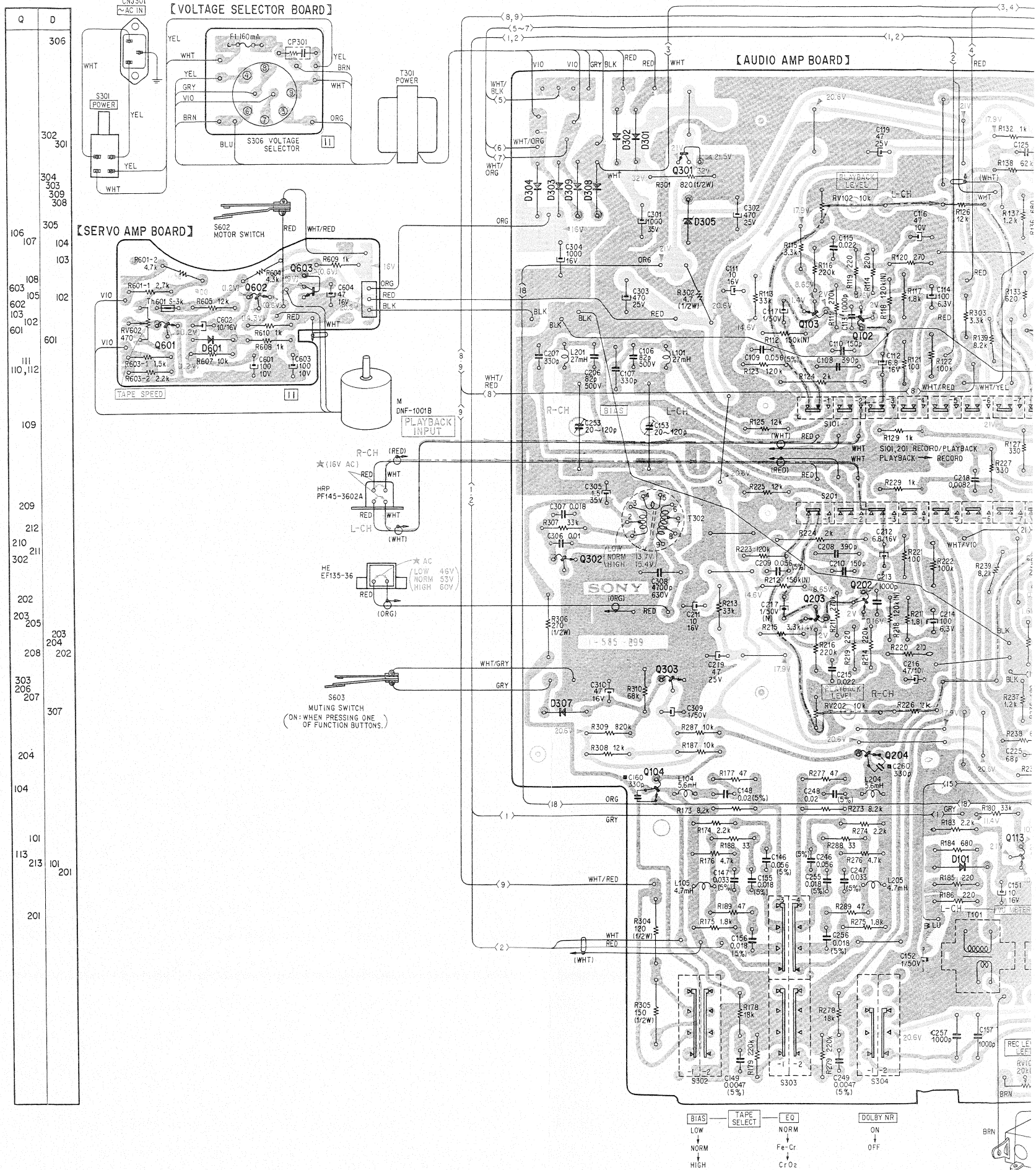
D306: SLP24B (LED)



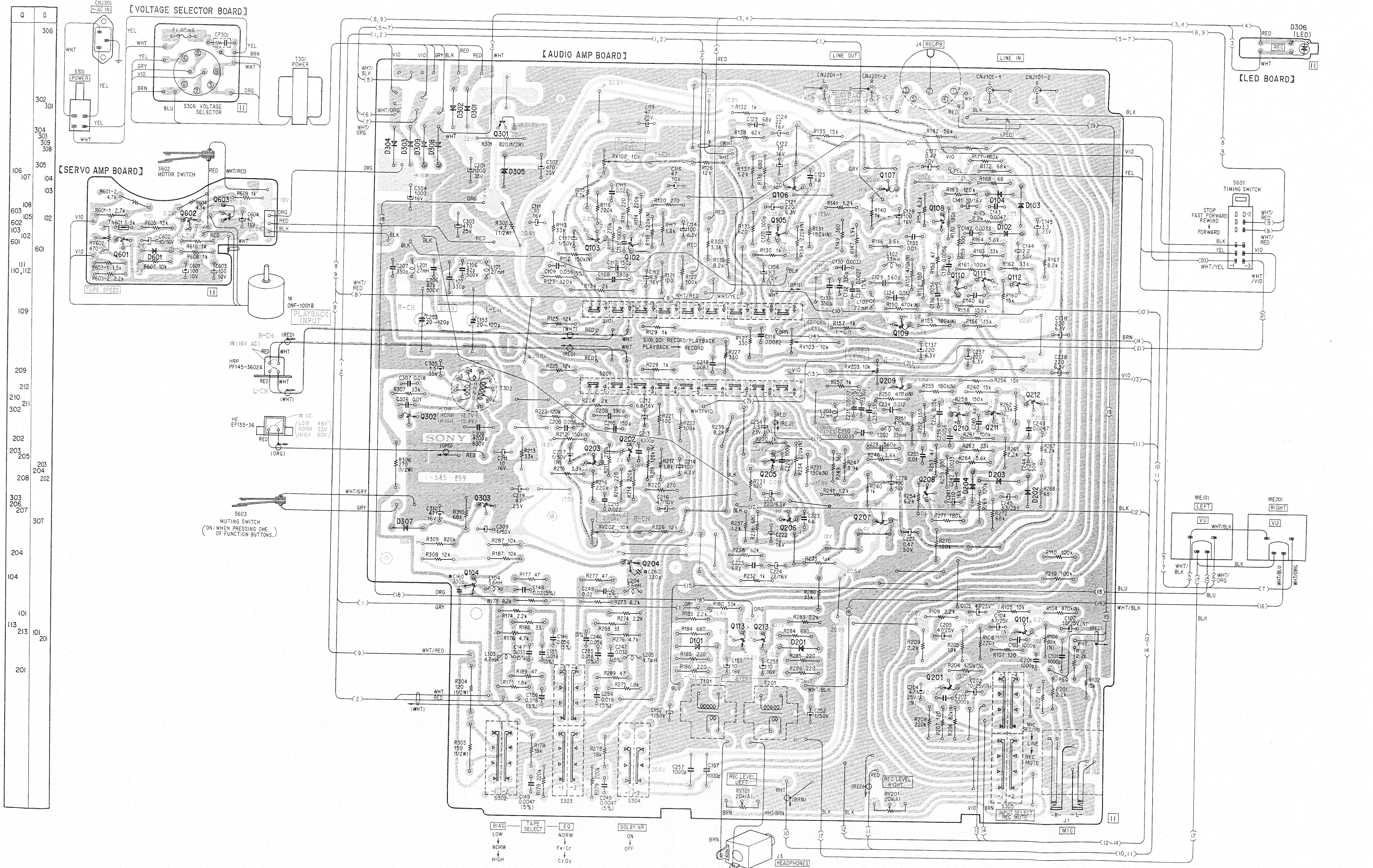
- Note:
- — : parts extracted from the component side.
 - — : parts extracted from the conductor side.
 - : part mounted on the conductor side.
 - : B+ pattern.
 - : signal path.
 - Color code of sleeving over the end of the jacket.



- Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
- (): record/FORWARD
- [] : FORWARD
- AC voltage readings indicated by * in the bias oscillator circuit are taken with a VTVM.



TC-188SD TC-188SD



Q	D
306	
302	301
304	303
309	308
305	
107	
104	
103	
108	
603	
105	
602	
103	
601	
110, 112	
109	
209	
212	
210	
302	
202	
203	
205	
208	
303	
206	
207	
307	
204	
104	
101	
113	101
201	

[VOLTAGE SELECTOR BOARD]

[AUDIO AMP BOARD]

[SERVO AMP BOARD]

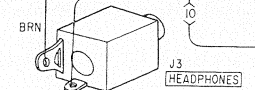
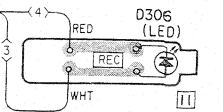
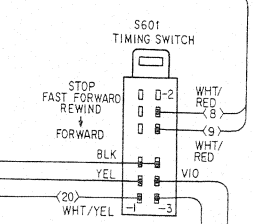
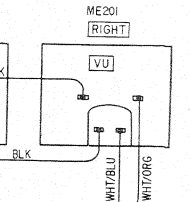
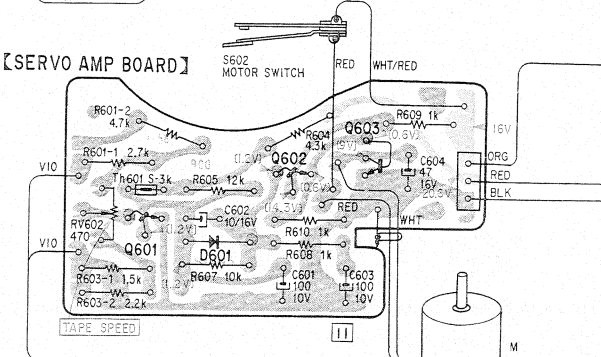
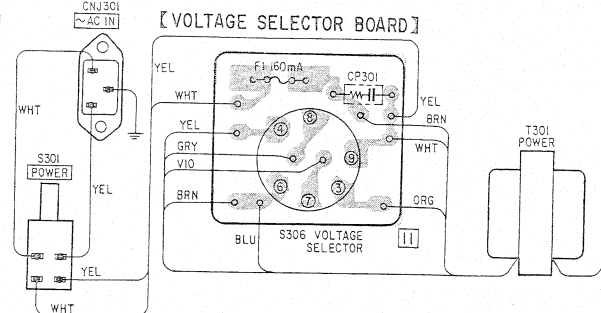
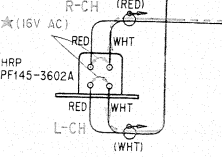
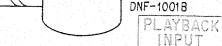
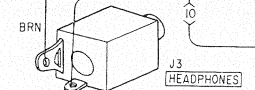
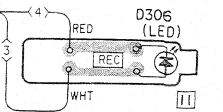
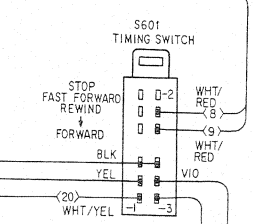
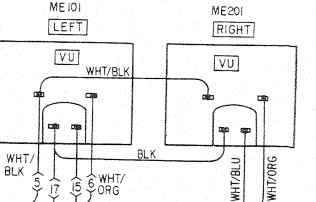
[LED BOARD]

S603
MUTING SWITCH
(ON: WHEN PRESSING ONE
OF FUNCTION BUTTONS.)

BIAS
LOW
NORM
HIGH

TAPE SELECT
ED
NORM
Fe-Cr
CrO₂

DOLBY NR
ON
OFF

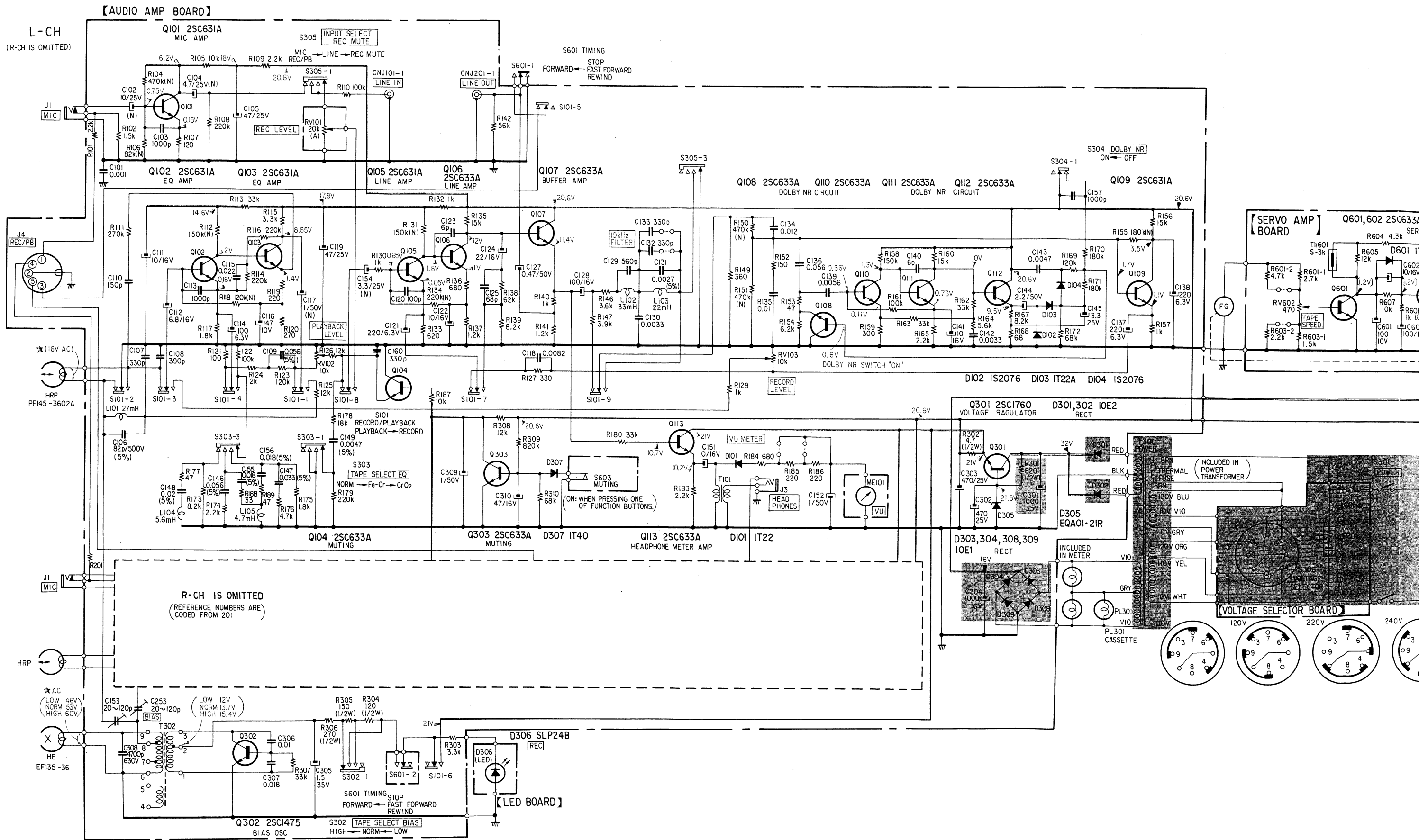


BIAS
LOW
NORM
HIGH

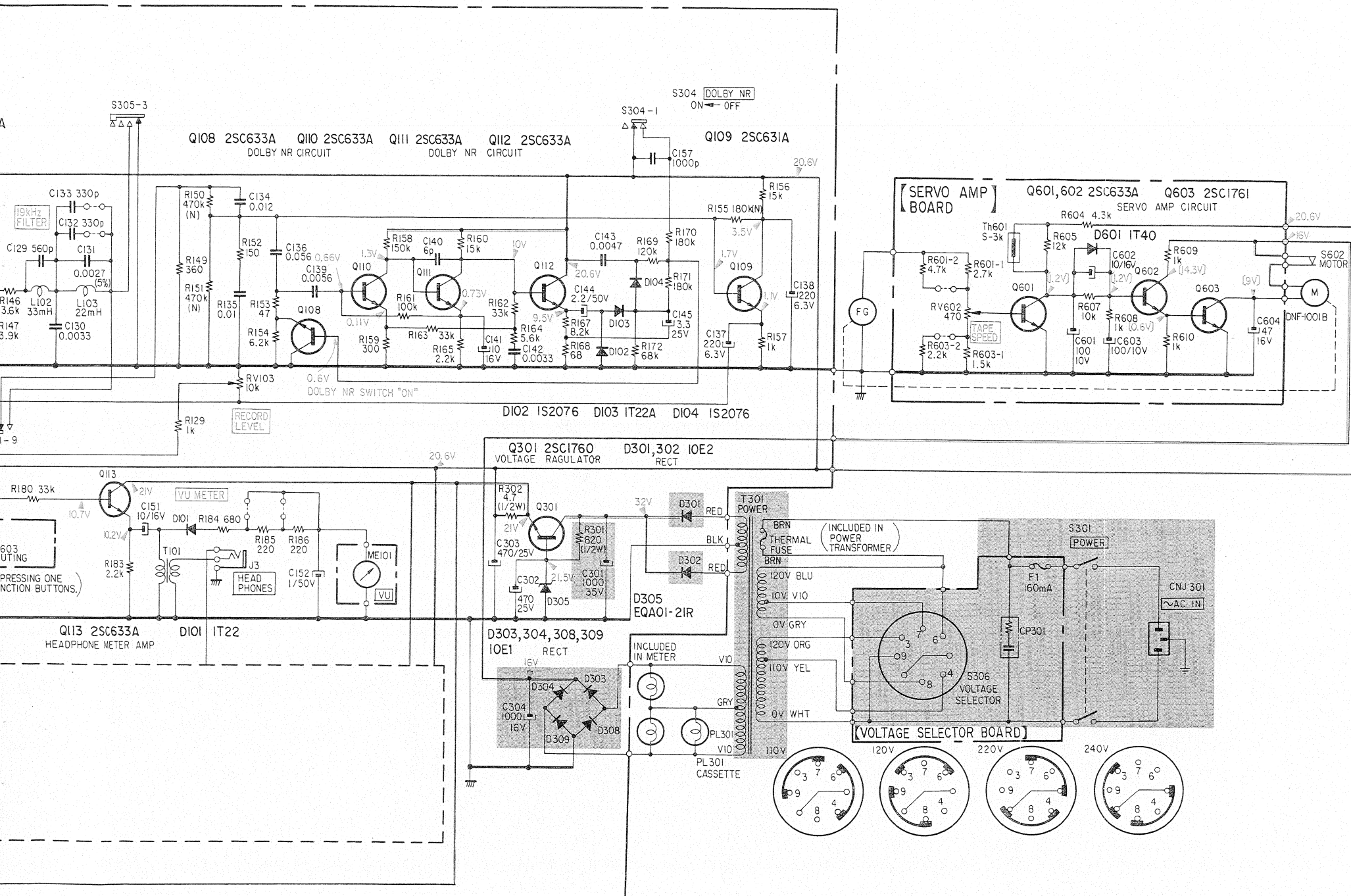
TAPE SELECT
ED
NORM
Fe-Cr
CrO₂

DOLBY NR
ON
OFF

4-2. SCHEMATIC DIAGRAM



ING
P
T FORWARD
VIND



Note:

- 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. $\text{pF} = \mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
- Adjustable resistors have characteristic curve B, unless otherwise noted.
- (N) : low-noise capacitor and resistor.
- 5% indicates component tolerance.
- : B+ bus.
- : panel designation.
- : adjustment for repair.
- : direct connection to points marked on the chassis.
- : chassis ground.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
- () : record/FORWARD
- [] : FORWARD
- 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
S306	VOLTAGE SELECTOR	
S601	TIMING	STOP FAST FORWARD REWIND
S602	MOTOR	OFF
S603	MUTING	OFF

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

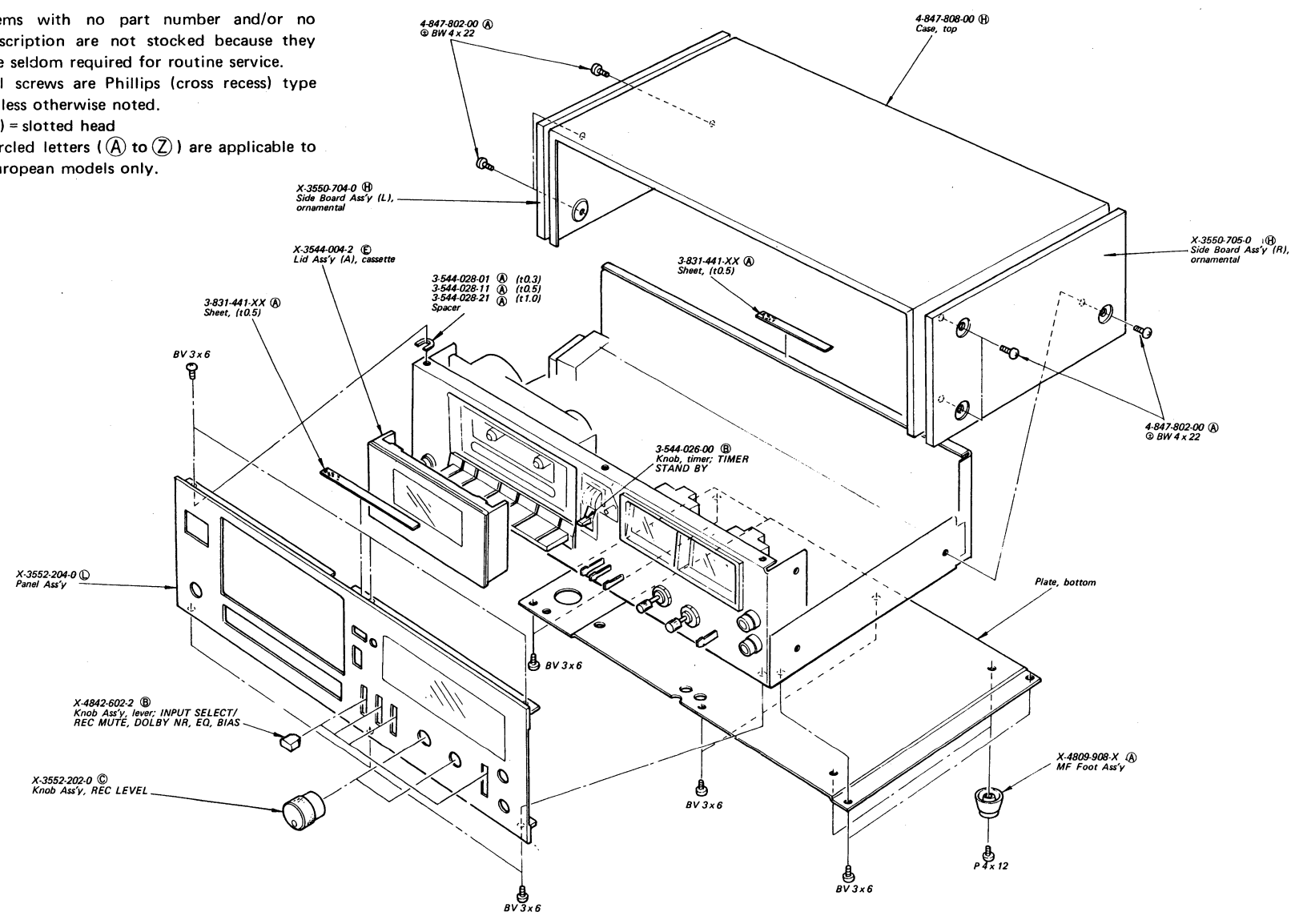
SECTION 5
EXPLODED VIEWS

A B C D E

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

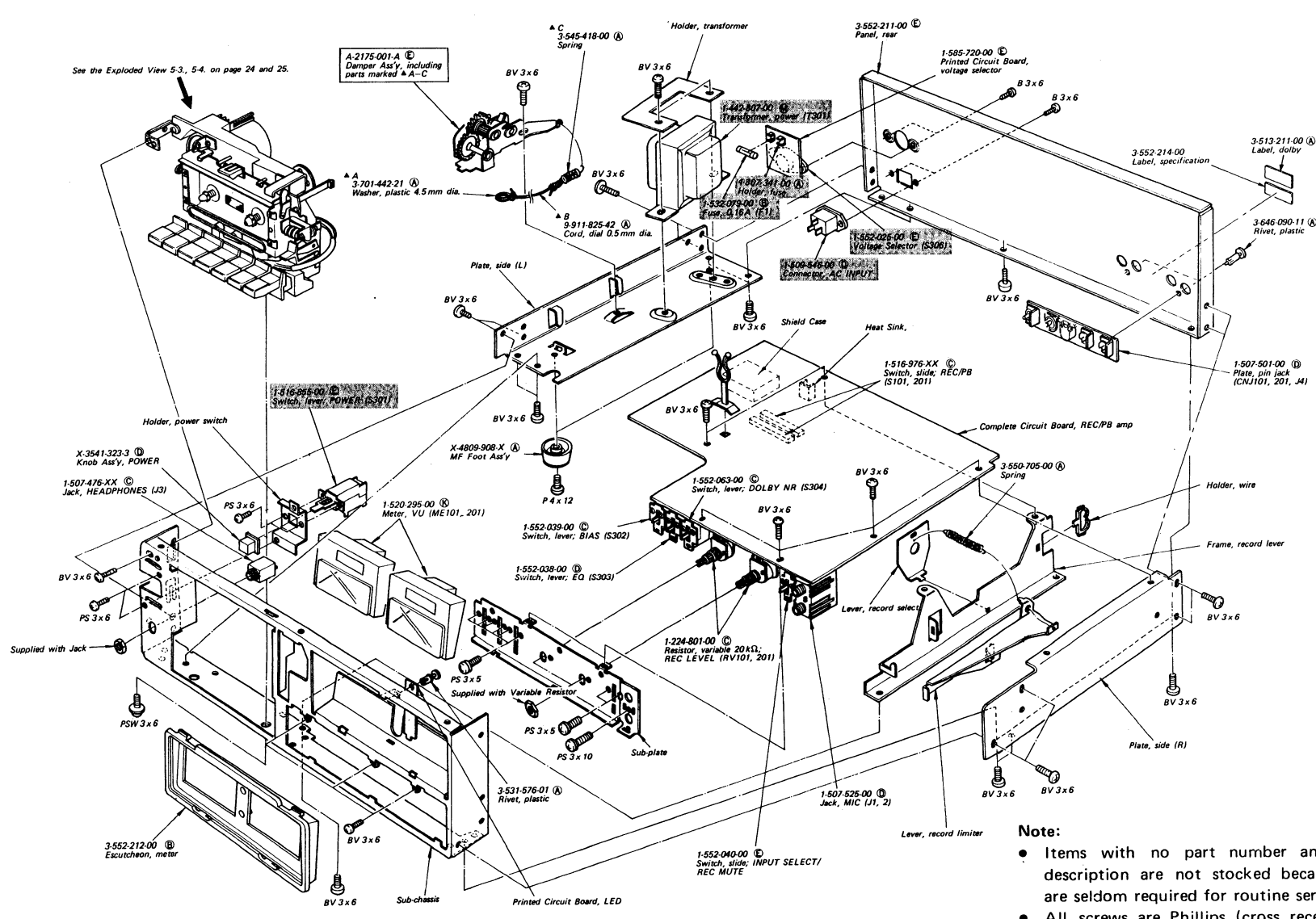
5-1.



1
2
3
4

A B C D E

5-2.

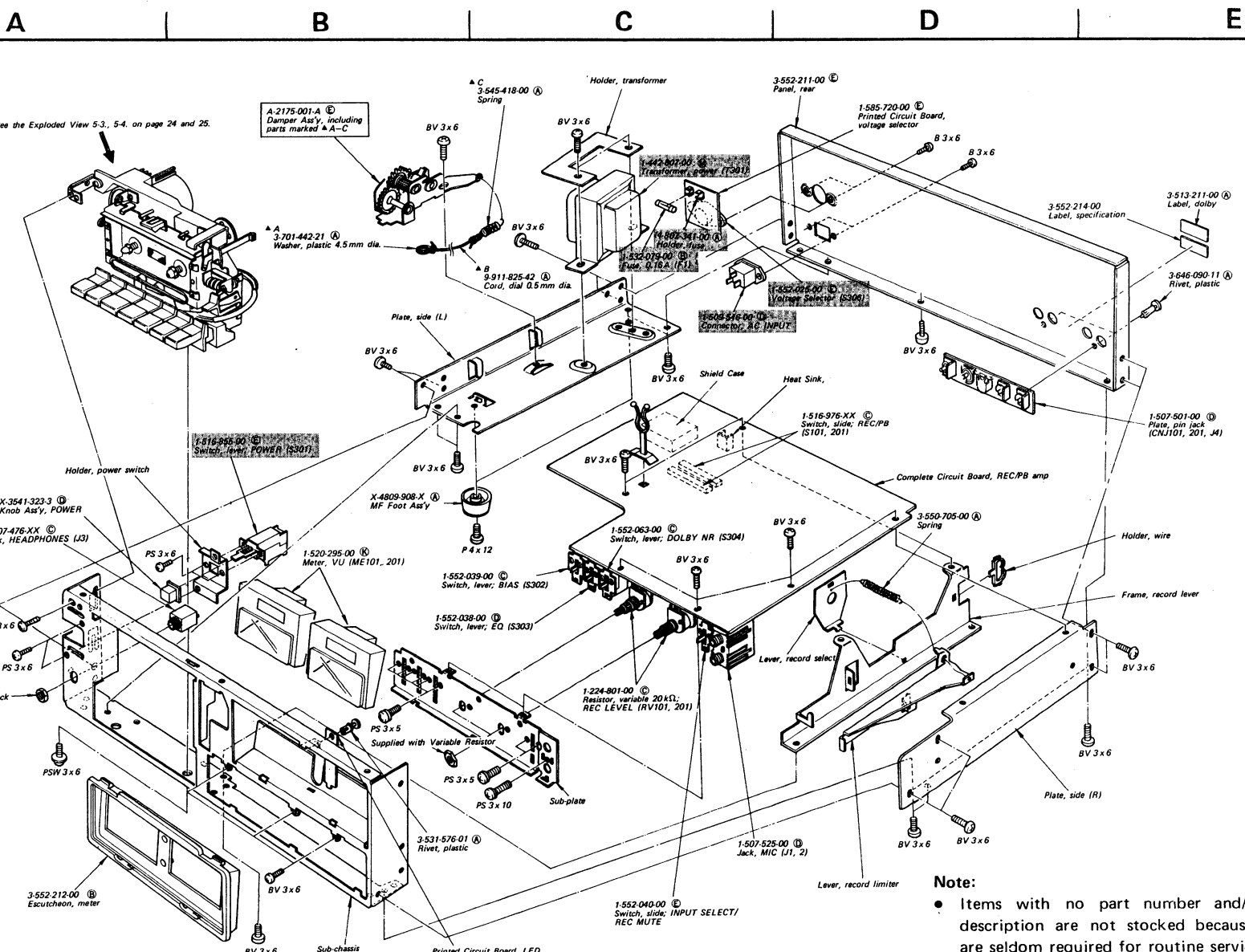


1
2
3
4

Note:

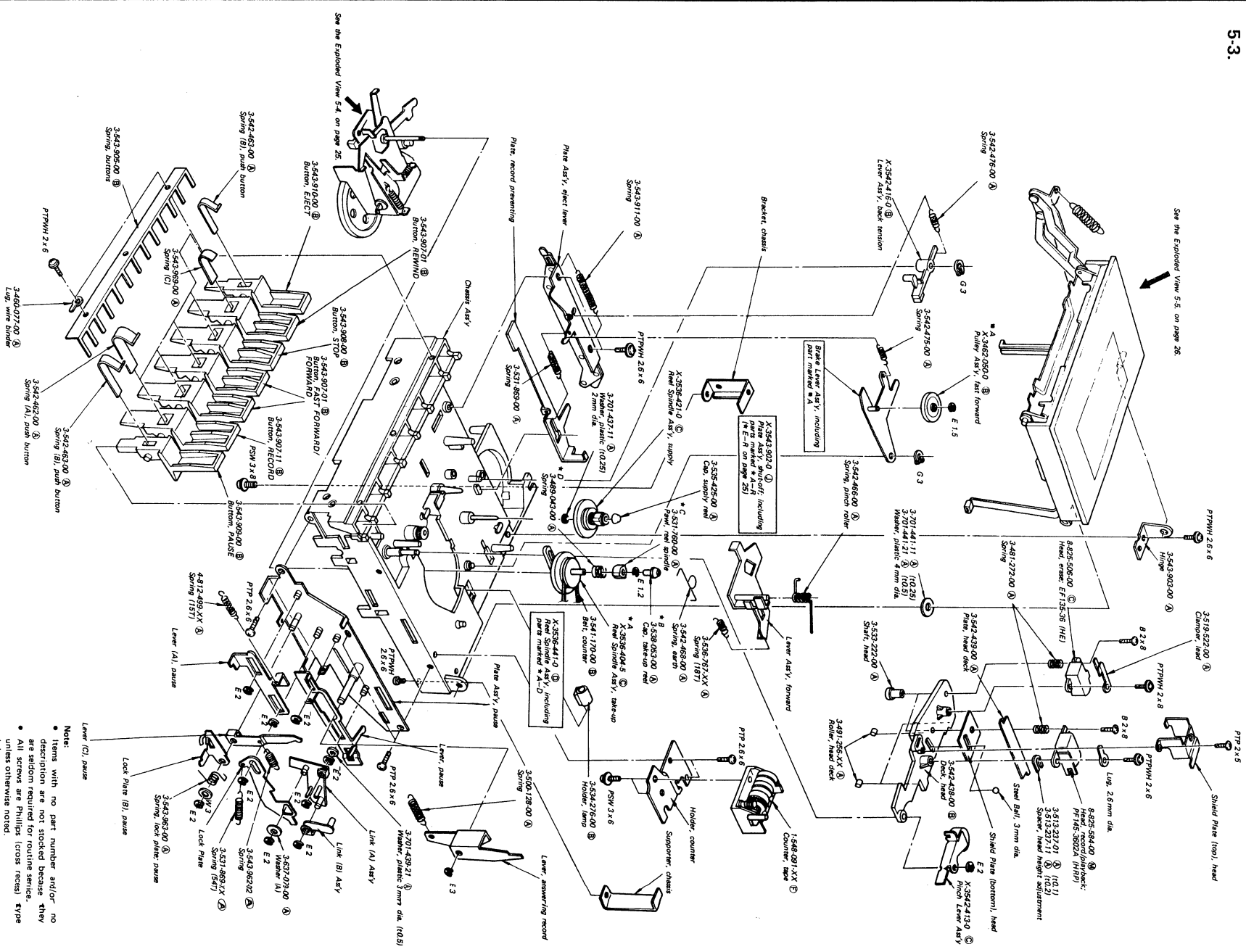
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head
- Circled letters (A) to (Z) are applicable to European models only.

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



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

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



- 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
 - Circled letters (A) to (Z) are applicable to European models only.
 - (CCT) shows the number of coils in spring.

1
2
3
4

5

4

3

2

1

A
B
C
D

23

24

54.

A B C D

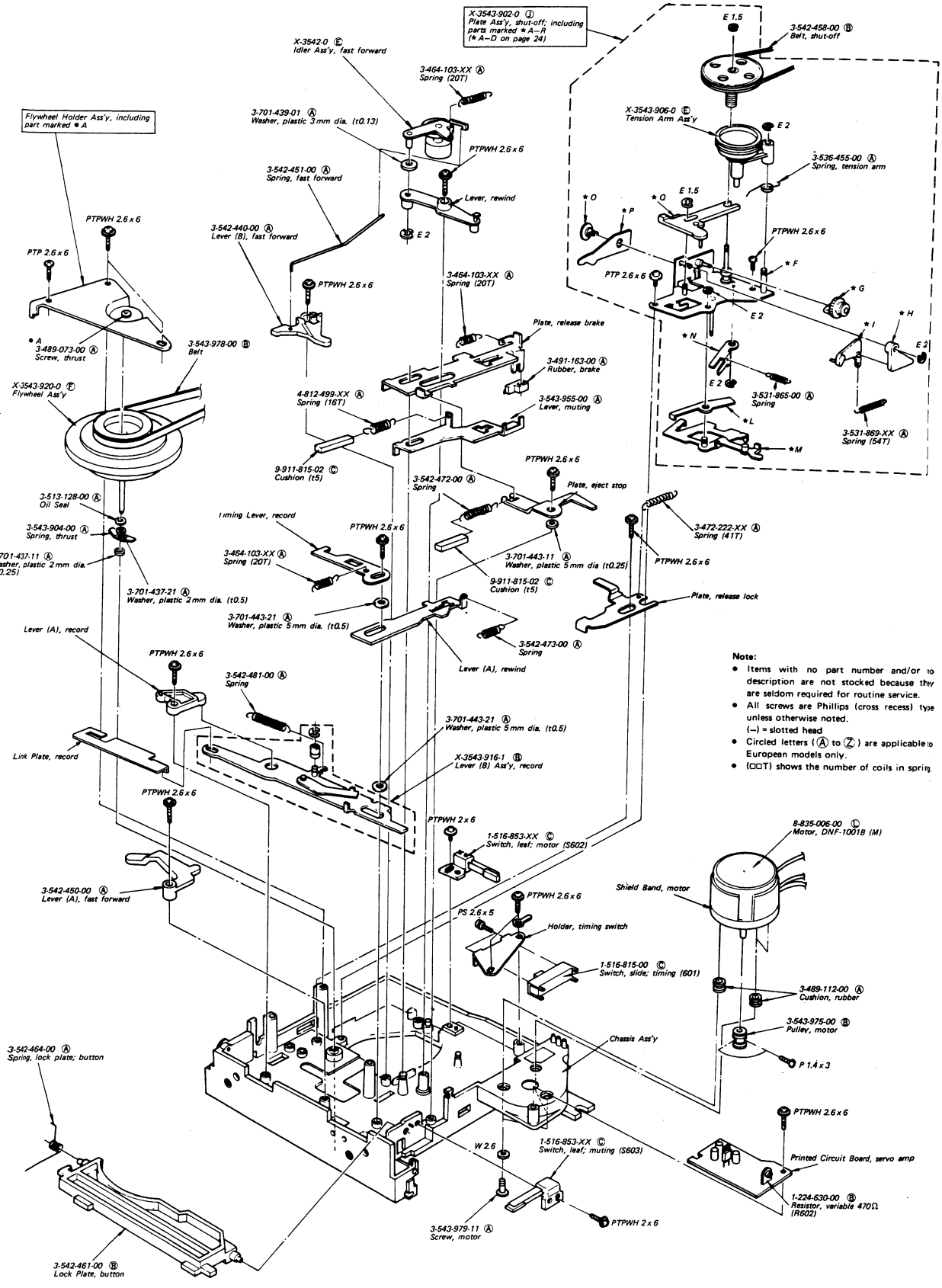
1

2

3

4

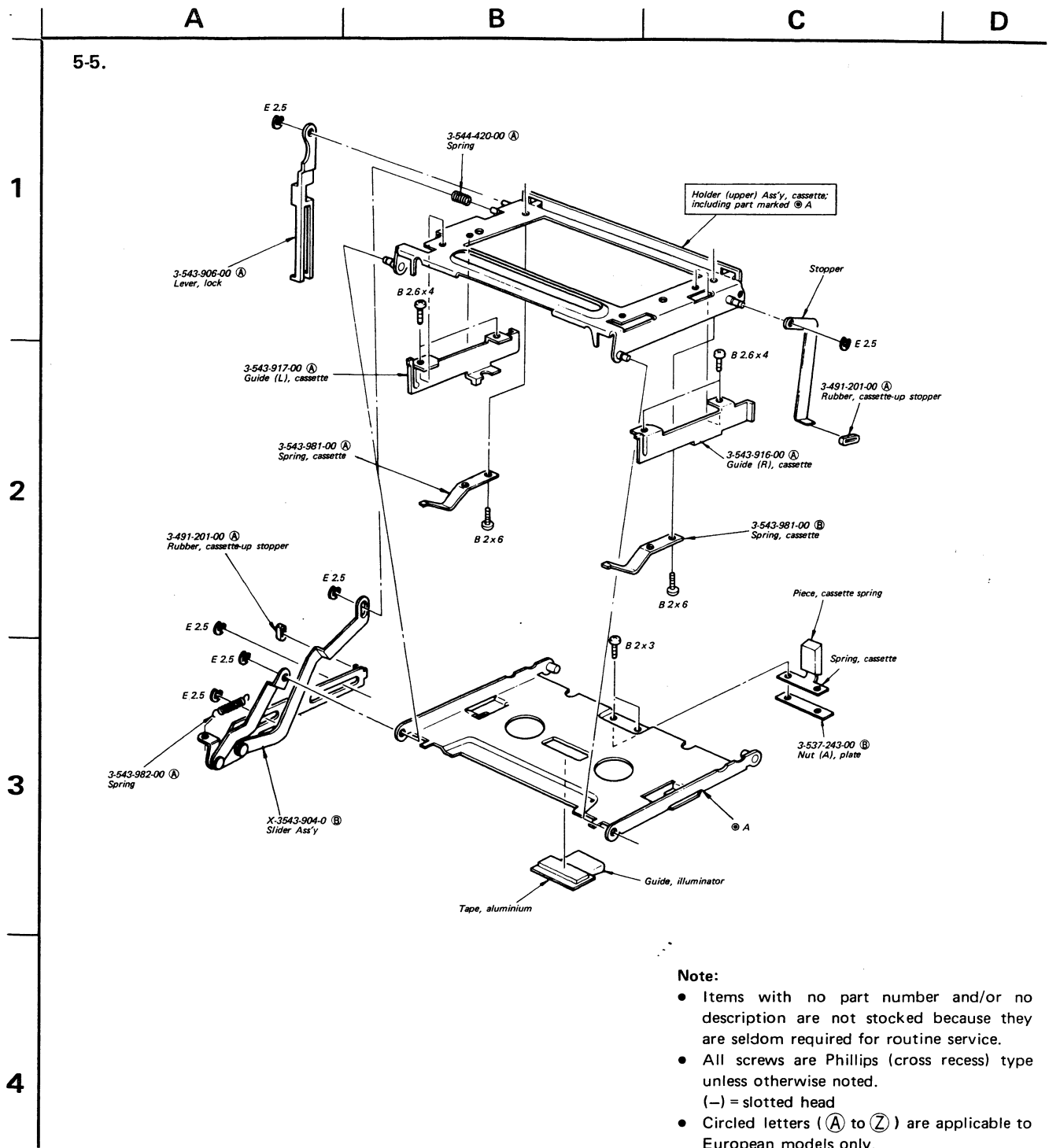
5



X-3543-902-0 ①
Plate Assy, shut-off; including
parts marked *A-G
(*A-D on page 24)

Flywheel Holder Assy, including
part marked *A

- Note:**
- Items with no part number and/or to description are not stocked because they are seldom required for routine service.
 - All screws are Phillips (cross recess) type unless otherwise noted.
 - (-) = slotted head
 - Circled letters (A) to (Z) are applicable to European models only.
 - (□□T) shows the number of coils in spring.



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

**SECTION 6
ELECTRICAL PARTS LIST**

Note:

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
PRINTED CIRCUIT BOARD		
1-587-720-00	(E)	Voltage Selector
SEMICONDUCTORS		
Transistors		
⇒ Q101-103 ⇒ Q201-203	(B)	2SC632A
⇒ Q104,204	(B)	2SC634A
⇒ Q105,205	(B)	2SC632A
⇒ Q106-108 ⇒ Q206-208	(B)	2SC634A
⇒ Q109,209	(B)	2SC632A
⇒ Q110-113 ⇒ Q210-213	(B)	2SC634A
Q301	(C)	2SC1760
Q302	(C)	2SC1475
⇒ Q303	(B)	2SC634A
⇒ Q601,602 Q603	(B) (C)	2SC634A 2SC1761
Diodes		
⇒ D101,201	(B)	1T22A
⇒ D102,202	(B)	1S1555
D103,203	(B)	1T22A
⇒ D104,204	(B)	1S1555
⇒ D301-304	(B)	10E2
⇒ D305	(B)	EQB01-21
D306	(C)	SLP24B
⇒ D307	(B)	1S1555
⇒ D308,309	(B)	10E2
⇒ D601	(B)	1S1555
Thermistor		
Th601	1-800-200-00	(B) S-3K

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
COILS		
L101,201	1-407-211-XX	(B) Microinductor, 27 mH
L102,202	1-407-212-XX	(B) Microinductor, 33 mH
L103,203	1-407-210-XX	(B) Microinductor, 22 mH
L104,204	1-407-203-XX	(B) Microinductor, 5.60 mH
L105,205	1-407-202-XX	(B) Microinductor, 4.70 mH

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
TRANSFORMERS		
T101,201	1-427-424-00	(C) Output
T301	1-442-807-00	(M) Power
T302	1-433-132-00	(C) Osc

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
CAPACITORS		
All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF = $\mu\mu\text{F}$, elect = electrolytic		
C101	1-161-323-11	(A) 0.001
C102,202	1-121-748-11	(A) 10 25V elect
C103,203	1-102-074-11	(A) 0.001
C104,204	1-121-915-11	(A) 4.7 25V elect
C105,205	1-121-410-11	(B) 47 25V elect
C106,206	1-107-037-11	(A) 82p 500V silver mica
C107	1-161-317-11	(A) 330p
C108,208	1-161-318-11	(A) 390p
C109,209	1-108-361-12	(A) 0.056 mylar
C110,210	1-102-108-11	(A) 150p
C111,211	1-121-651-11	(A) 10 16V elect
C112,212	1-121-748-11	(A) 10 25V elect
C113,213	1-102-074-11	(A) 0.001
C114,214	1-121-414-11	(A) 100 6.3V elect
C115,215	1-108-242-12	(A) 0.022 mylar
C116,216	1-121-352-11	(A) 47 10V elect
C117,217	1-121-912-11	(A) 1 50V elect
C118,218	1-102-128-11	(A) 0.0082
C119,219	1-121-410-11	(B) 47 25V elect
C120,220	1-102-106-11	(A) 100p

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

Note: The components identified by shading 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.	Description
C121,221	1-121-419-11	(B) 220 6.3V elect
C122,222	1-121-651-11	(A) 10 16V elect
C123,223	1-102-943-11	(A) 6p
C124,224	1-121-479-11	(A) 22 16V elect
C125,225	1-101-888-11	(A) 68p
C127,227	1-121-726-11	(A) 0.47 50V elect
C128,228	1-121-415-11	(B) 100 16V elect
C129,229	1-161-320-11	(A) 560p
C130,230	1-102-123-11	(A) 0.0033
C131,231	1-108-353-12	(A) 0.0027 mylar
C132,133 C232,233	1-102-112-11	(A) 330p
C134,234	1-108-357-12	(A) 0.012 mylar
C135,235	1-108-239-12	(A) 0.01 mylar
C136,236	1-108-361-12	(A) 0.056 mylar
C137,138 C237,238	1-121-419-11	(B) 220 6.3V elect
C139,239	1-102-126-11	(A) 0.0056
C140,240	1-102-943-11	(A) 6p
C141,241	1-121-651-11	(A) 10 16V elect
C142,242	1-102-123-11	(A) 0.0033
C143,243	1-102-125-11	(A) 0.0047
C144,244	1-121-986-11	(A) 2.2 50V elect
C145,245	1-121-960-11	(A) 3.3 25V elect
C146,246	1-108-361-12	(A) 0.055 mylar
C147,247	1-108-244-12	(A) 0.033 mylar
C148,248	1-108-586-12	(B) 0.02 mylar
C149,249	1-108-234-12	(A) 0.0047 mylar
C151,251	1-161-323-11	(A) 0.001
C152,252	1-121-391-11	(A) 1 50V elect
C153,253	1-141-010-XX	(B) trimmer
C154,254	1-121-913-11	(A) 3.3 25V elect
C155,156 C255,256	1-108-358-12	(A) 0.018 mylar
C201	1-102-074-51	(A) 0.001
C207	1-102-112-11	(A) 330p
C301	1-123-061-11	(C) 1000 35V elect
C302,303	1-121-940-11	(B) 470 25V elect
C304	1-121-944-11	(E) 1000 16V elect
C305	1-131-216-21	(B) 1.5 35V tantalum

Ref. No.	Part No.	Description
C306	1-108-239-12	(A) 0.01 mylar
C307	1-108-358-12	(A) 0.018 mylar
C308	1-129-710-11	(A) 0.0047 630V
C309	1-121-391-11	(A) 1 50V elect
C310	1-121-970-11	(A) 47 16V elect
C601	1-121-414-11	(A) 100 10V elect
C602	1-121-651-11	(A) 10 16V elect
C603	1-121-414-11	(A) 100 10V elect
C604	1-121-409-11	(A) 47 16V elect

RESISTORS

All resistors are in ohms. Common 1/4W carbon resistors are omitted.

Check schematic diagram for values.

R301	1-202-571-11	(A) 820	1/4W	composition
R302	1-202-517-11	(A) 4.70	1/2W	composition
R304	1-202-551-11	(A) 120	1/2W	composition
R305	1-202-553-11	(A) 150	1/2W	composition
R306	1-202-559-11	(A) 270	1/2W	composition

RV101,201	1-224-801-00	(C) Variable, 20 kΩ; RECORD LEVEL
RV102,103 RV202,203	1-224-645-XX	(B) Adjustable, 10 k
RV202,203	1-224-645-XX	(B) Adjustable, 10 k
RV602	1-224-630-00	(B) Adjustable, 470

SWITCHES

S101,201	1-514-976-XX	(C) Slide, REC/PB
----------	--------------	-------------------

S301	1-514-358-00	(E) Push POWER
S302	1-552-039-00	(C) Lever, BIAS
S303	1-552-038-00	(D) Lever, EQ
S304	1-552-063-00	(C) Lever, DOLBY NR
S305	1-552-040-00	(E) Lever, INPUT SELECT/ RECORD MUTE
S306	1-552-026-00	(E) Voltage Selector

S601	1-516-815-00	(C) Lever, timing
S602,603	1-516-853-XX	(C) Leaf, motor

Note: The components identified by shading 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. Description

FUSE

F1 1-532-079-00 ⓑ 0.16A

MISCELLANEOUS

CNJ101,102) 1-536-501-00 ⓓ Jack, LINE IN, LINE OUT REC/PB
J4

CP301 1-231-057-31 ⓑ 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, MICROPHONE

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

CNJ301 1-509-546-00 ⓓ Connector, 3-p, AC INPUT

1-518-273-00 ⓑ Lamp, VU meter

ACCESSORIES

Part No. Description

X-3544-013-0 ⓑ Cushion Ass'y

X-3701-105-0 ⓐ Tips Ass'y, head cleaning

1-534-049-31 Ⓕ Cord, connection; RK-74H

1-534-819-00 Ⓞ Cord, 3-p power (UK model)

1-531-216-00 Cord, power, with euro-plug (E model)

1-534-754-00 Cord, power, with parallel-blade plug (E model)

3-552-221-00 Ⓔ Carton (AEP, UK model)

3-552-222-00 Carton (E model)

3-701-630-00 ⓐ Bag, plastic

3-770-228-11 Ⓕ Manual, instruction

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

Sony Corporation

© 1977
— 30 —

AEP Model
UK Model
E Model

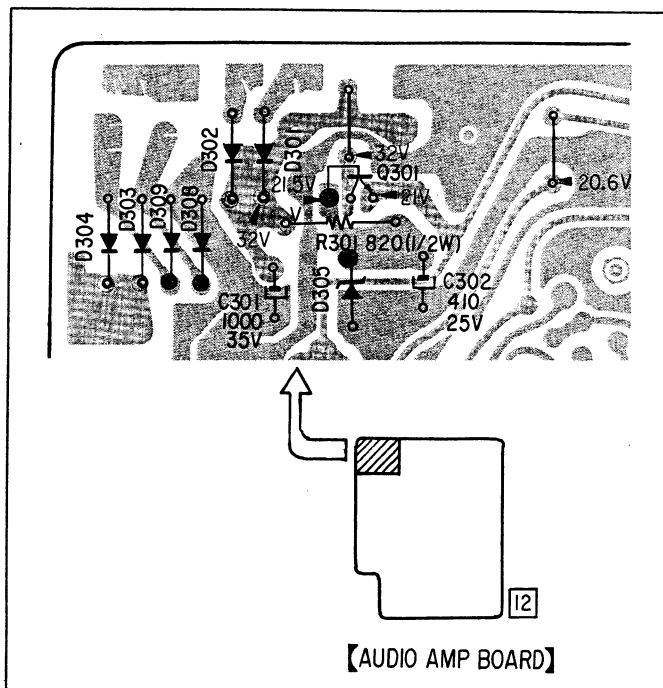
SUPPLEMENT

Subject: Pattern Change

No. 1
June, 1977

File this supplement with the service manual.

The pattern around Q301 is changed in the later set as shown below.
When installing Q301, be carefull of the base and the emitter position.



Sony Corporation

© 1977

SONY
SERVICE MANUAL

7-0669-1
Printed in Japan