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## TC-255

*E Model*

## Specifications

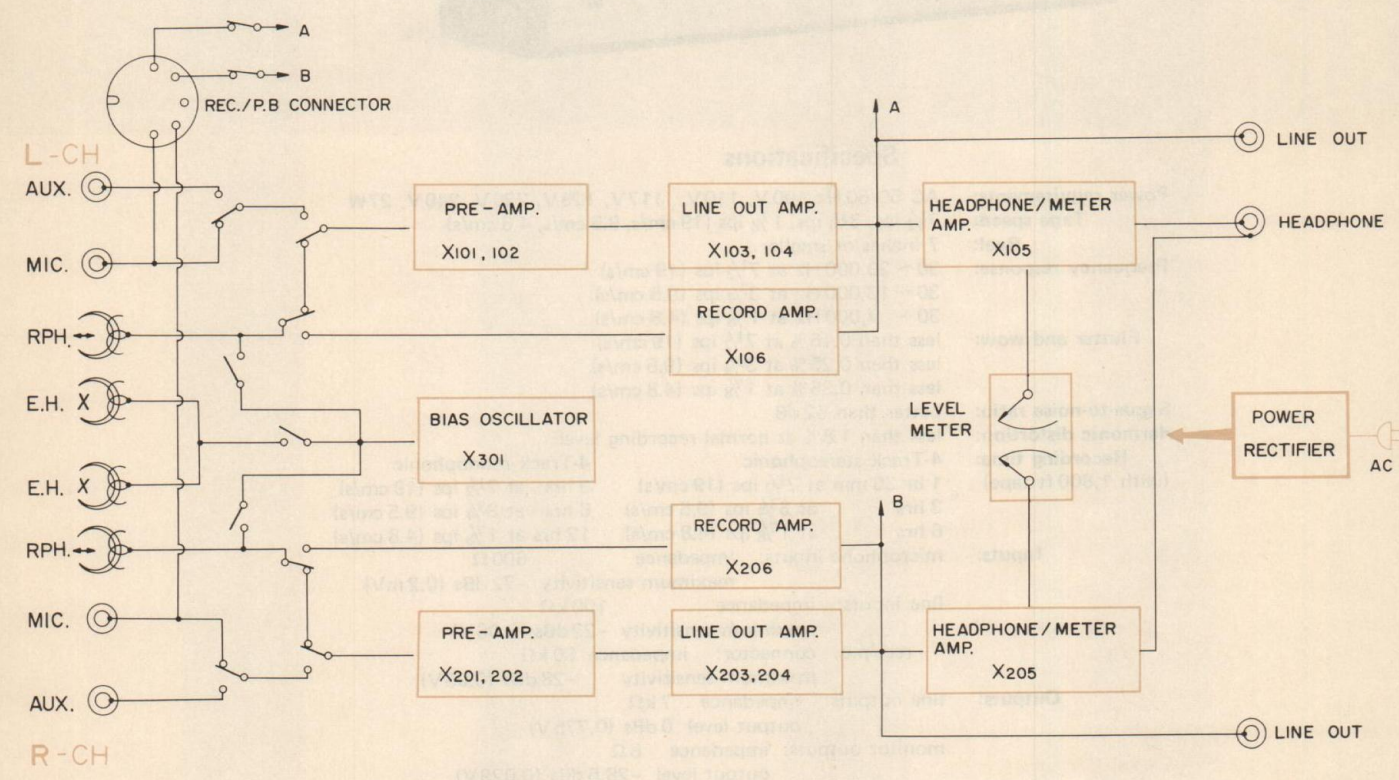
|                               |                                                                                                                     |                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Power requirements:</b>    | AC 50/60 Hz 100 V, 110 V, 117 V, 125 V, 220 V, 240 V, 27 W                                                          |                             |
| <b>Tape speed:</b>            | 7½ ips, 3¾ ips, 1⅞ ips (19 cm/s, 9.5 cm/s, 4.8 cm/s)                                                                |                             |
| <b>Reel:</b>                  | 7 inches or smaller                                                                                                 |                             |
| <b>Frequency response:</b>    | 30 ~ 20,000 Hz at 7½ ips (19 cm/s)<br>30 ~ 13,000 Hz at 3¾ ips (9.5 cm/s)<br>30 ~ 7,000 Hz at 1⅞ ips (4.8 cm/s)     |                             |
| <b>Flutter and wow:</b>       | less than 0.15% at 7½ ips (19 cm/s)<br>less than 0.25% at 3¾ ips (9.5 cm/s)<br>less than 0.35% at 1⅞ ips (4.8 cm/s) |                             |
| <b>Signal-to-noise ratio:</b> | better than 52 dB                                                                                                   |                             |
| <b>Harmonic distortion:</b>   | less than 1.8% at normal recording level                                                                            |                             |
| <b>Recording time:</b>        | 4-Track stereophonic                                                                                                | 4-Track monophonic          |
| (with 1,800 ft tape)          | 1 hr 30 min at 7½ ips (19 cm/s)                                                                                     | 3 hrs at 7½ ips (19 cm/s)   |
|                               | 3 hrs at 3¾ ips (9.5 cm/s)                                                                                          | 6 hrs at 3¾ ips (9.5 cm/s)  |
|                               | 6 hrs at 1⅞ ips (4.8 cm/s)                                                                                          | 12 hrs at 1⅞ ips (4.8 cm/s) |
| <b>Inputs:</b>                | microphone inputs: impedance 600 Ω<br>maximum sensitivity -72 dBs (0.2 mV)                                          |                             |
|                               | line inputs: impedance 100 kΩ<br>maximum sensitivity -22 dBs (0.06 V)                                               |                             |
|                               | rec./p.b. connector: impedance 80 kΩ<br>maximum sensitivity -28 dBs (0.03 V)                                        |                             |
| <b>Outputs:</b>               | line outputs: impedance 7 kΩ<br>output level 0 dBs (0.775 V)                                                        |                             |
|                               | monitor outputs: impedance 8 Ω<br>output level -28.5 dBs (0.029 V)                                                  |                             |
|                               | headphone outputs: impedance 8 Ω<br>output level -28.5 dBs (0.029 V)                                                |                             |
|                               | rec./p.b. connector: impedance 50 kΩ<br>maximum sensitivity -2 dBs (0.62 V)                                         |                             |
| <b>Transistors:</b>           | 2SC631 x4, 2SC633 x8, 2SD28 x1                                                                                      |                             |
| <b>Diodes:</b>                | 1T22 x2, 5GD x2                                                                                                     |                             |
| <b>Dimensions:</b>            | 15⅜" (w) x 7¼" (h) x 13¾" (d)<br>390 mm (w) x 183 mm (h) x 350 mm (d)                                               |                             |
| <b>Weight:</b>                | 18 lbs. (8.5 kg.)                                                                                                   |                             |

**SONY**  
**SERVICE MANUAL**

TECHNICAL FEATURE

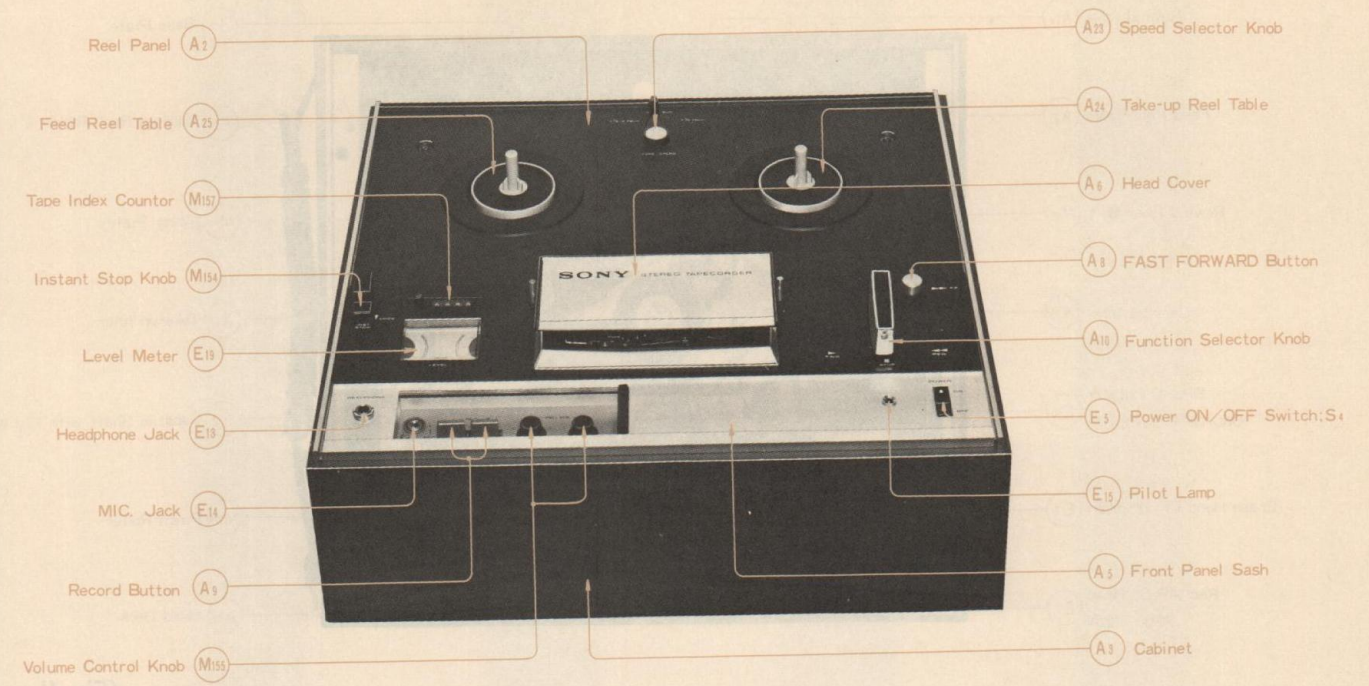
SONY Model TC-255 is a high quality 4 Track Stereo Taperecorder Deck, which can be operated in vertical position, designed for users desired best sound quality as a successor of SONY Model TC-250A. All silicon transistor Pre-Amplifier installed in the unit is newly designed in order to get extremely low noise and low distortion with bias frequency as high as approximately 160kHz. For driving tape transport mechanism, four pole vibration-proof induction motor is used.

Block Diagram



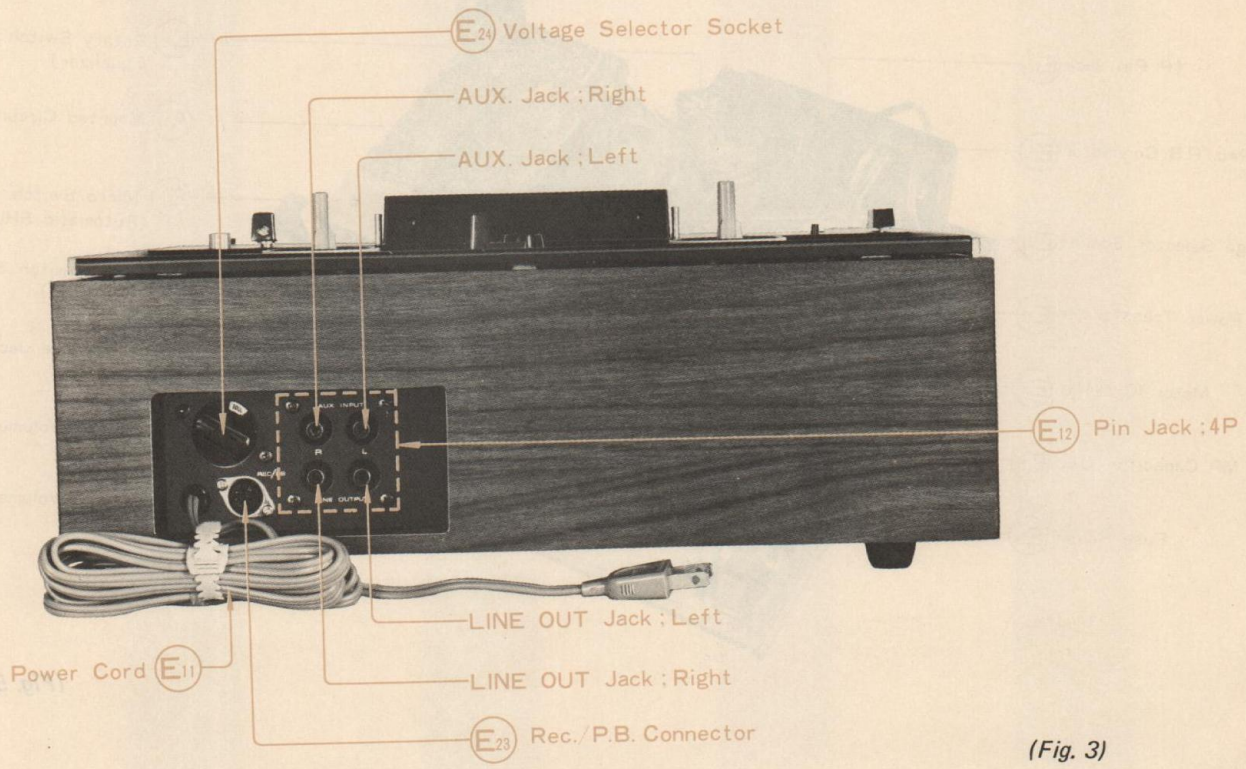
(Fig. 1)

Cabinet Front View



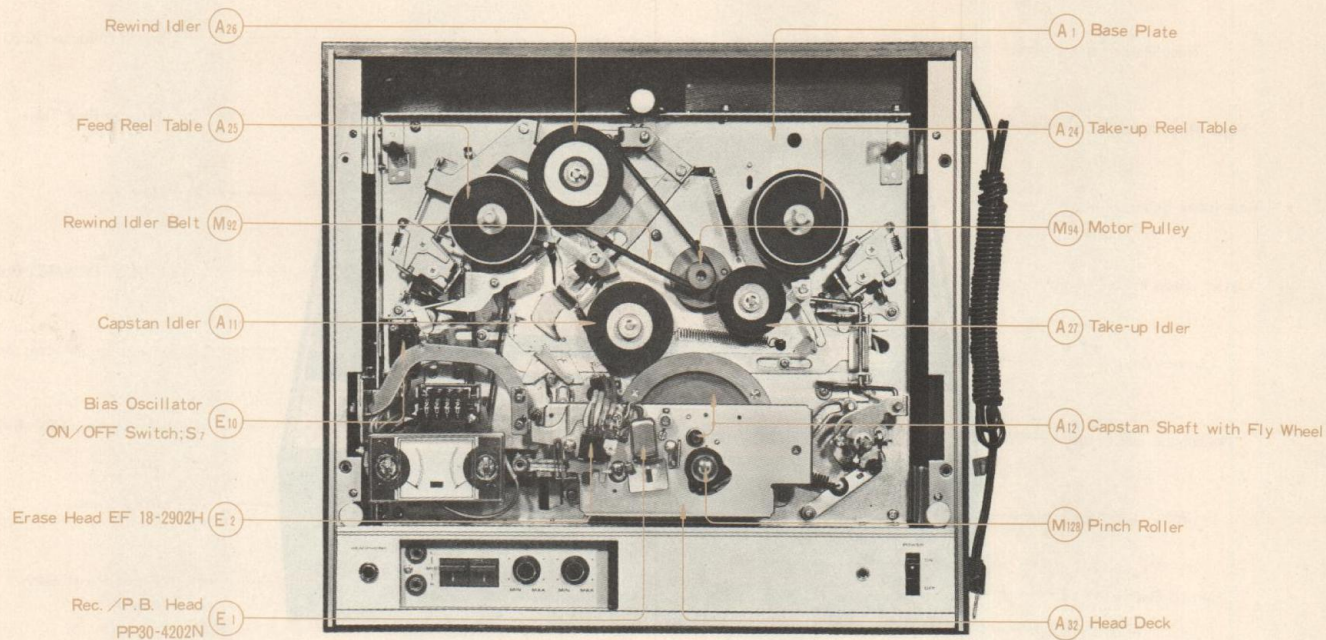
(Fig. 2)

Cabinet Back View



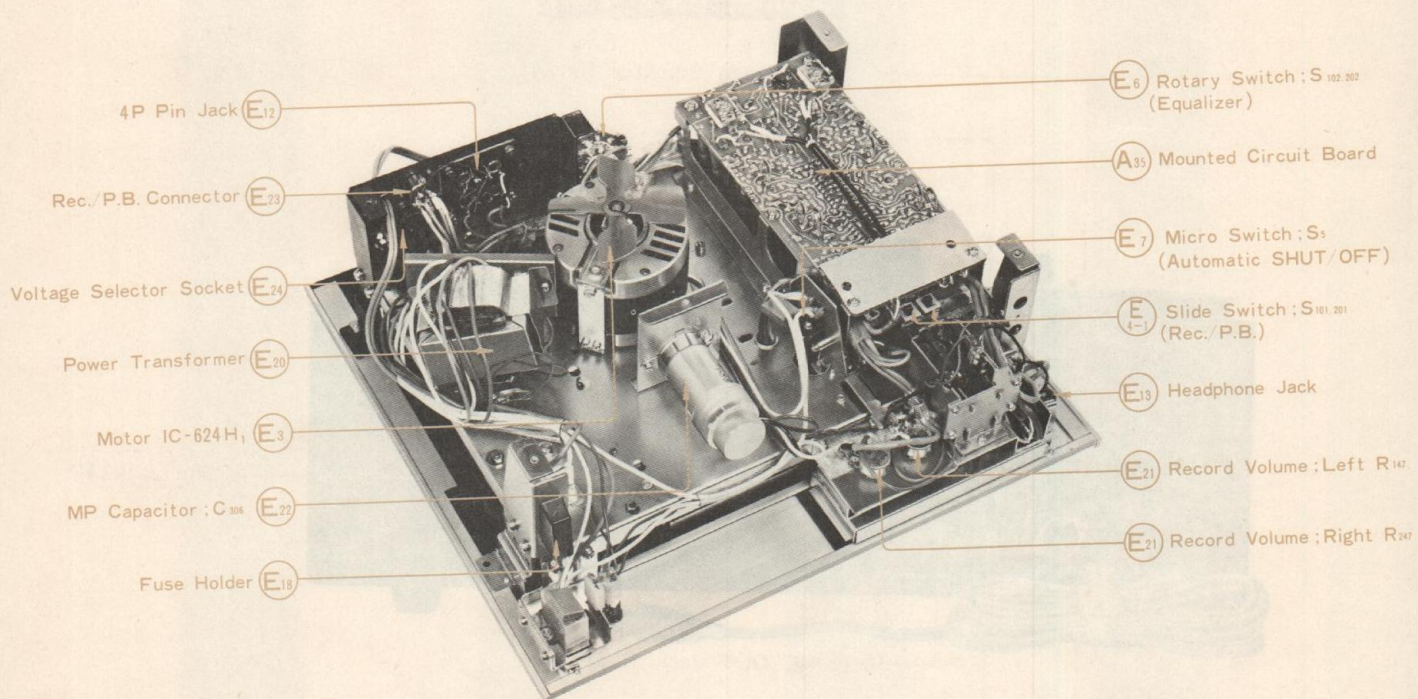
(Fig. 3)

## Chassis Top View



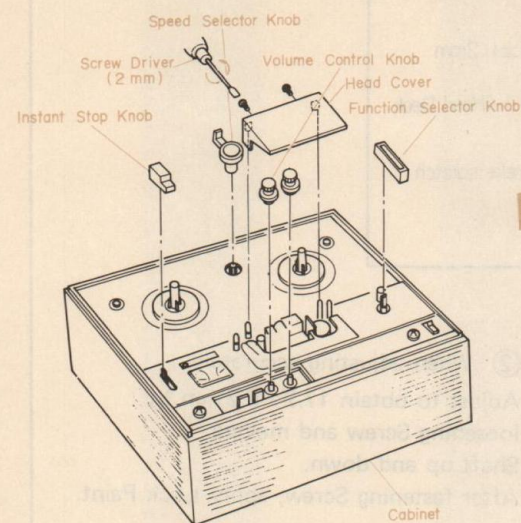
(Fig. 4)

## Chassis Bottom View



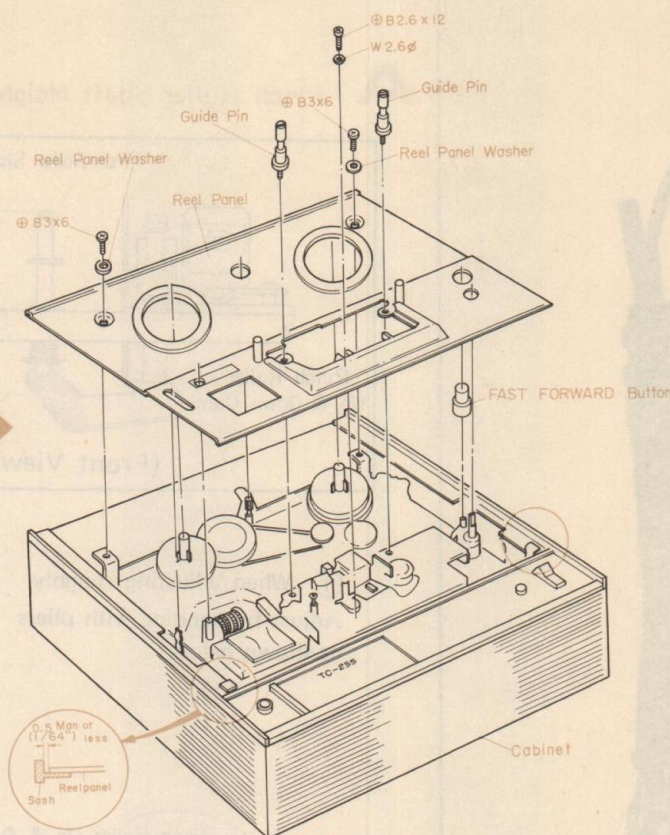
(Fig. 5)

## Removal of Head Cover and Knobs



(Fig. 6)

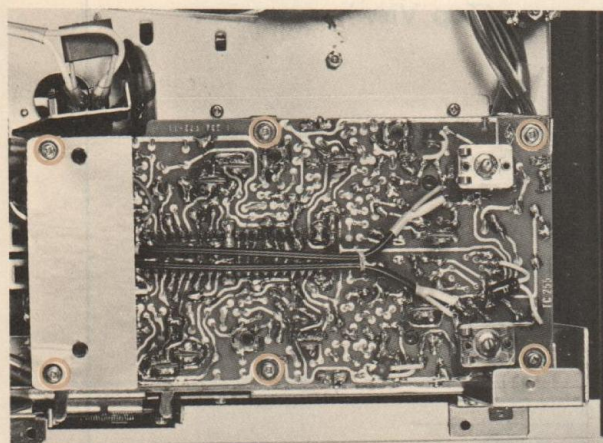
## Removal of Reel Panel



(Fig. 7)

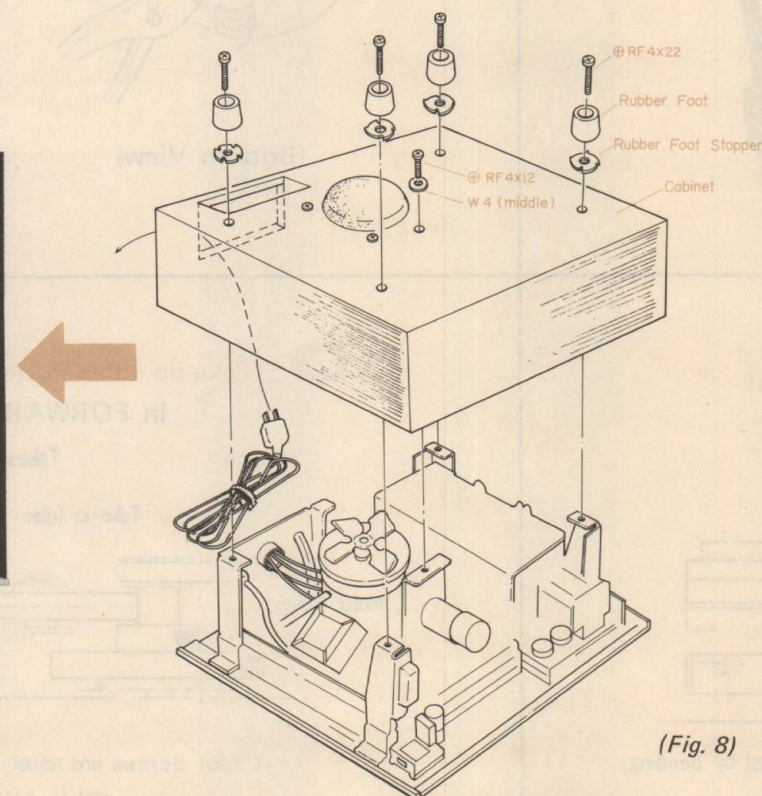
## Removal of Mounted Circuit Board

Mounted Circuit Board can be removed by unscrewing the screws encircled.



(Fig. 9)

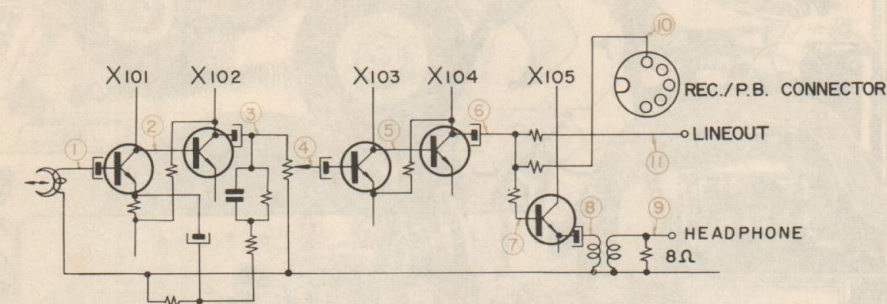
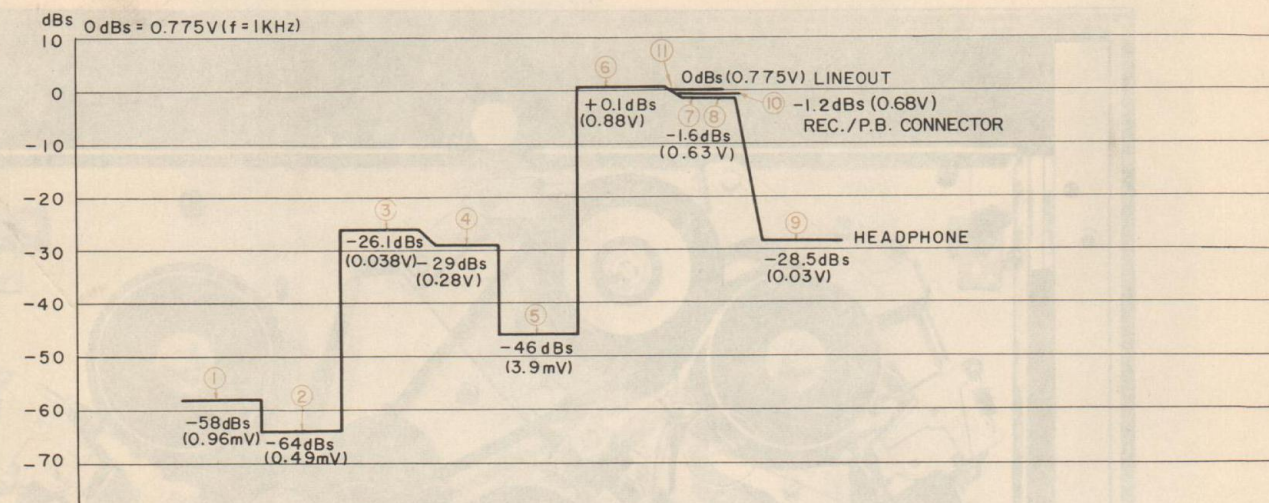
## Removal of Chassis



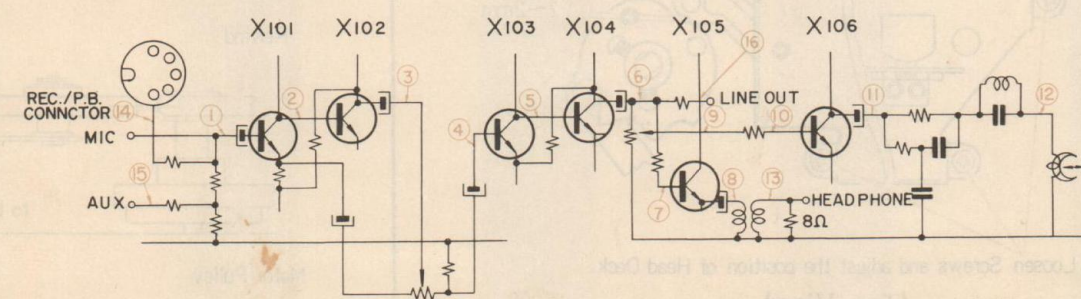
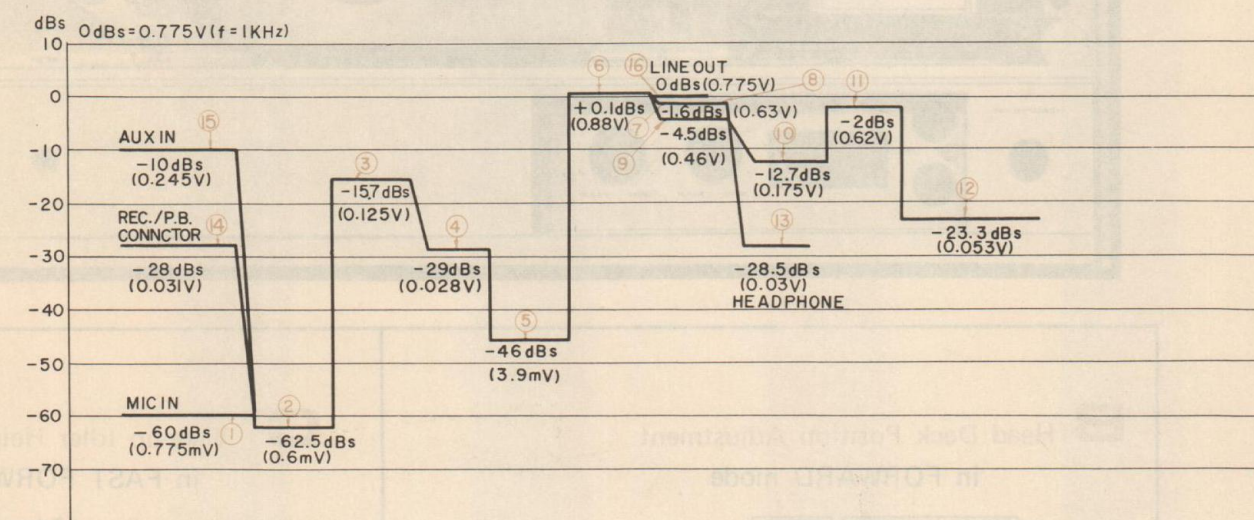
(Fig. 8)

## Level Diagram

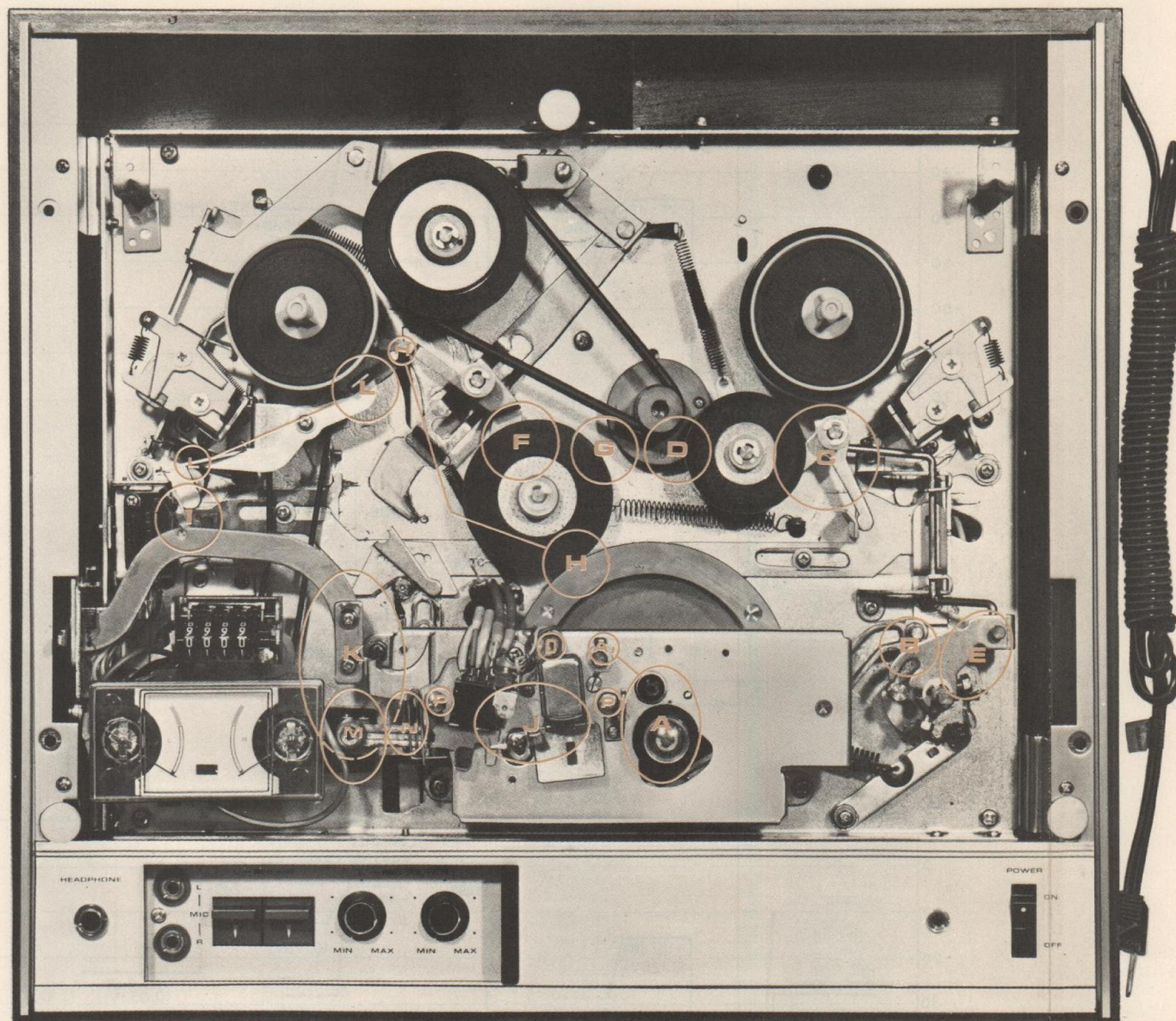
### Playback



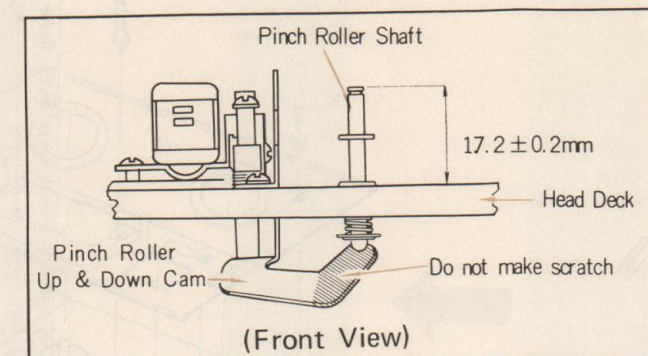
### Recording



## Mechanical Adjustment

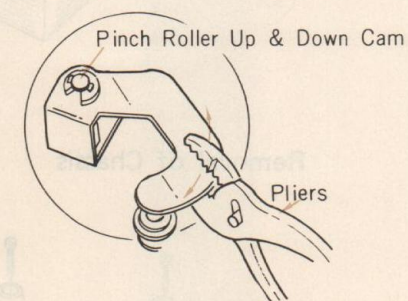


### A Pinch Roller Shaft Height Adjustment

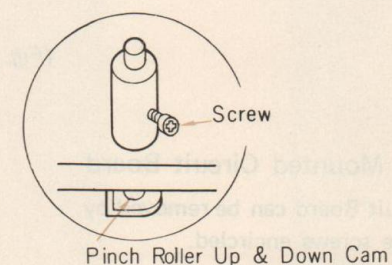


① When adjusting roughly  
Adjust by bending with pliers  
as shown below.

② When adjusting accurately  
Adjust to obtain  $17.2 \pm 0.2$  mm by  
loosening Screw and moving  
Shaft up and down.  
After fastening Screw, apply Lock Paint.

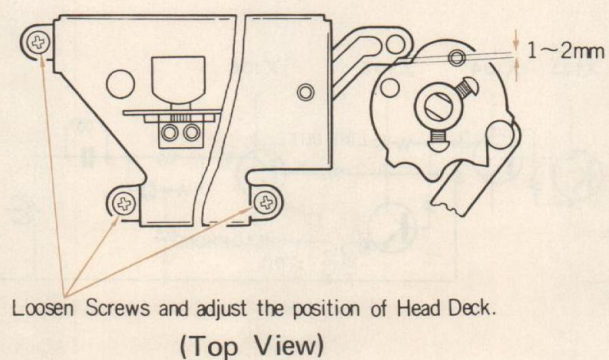


(Bottom View)

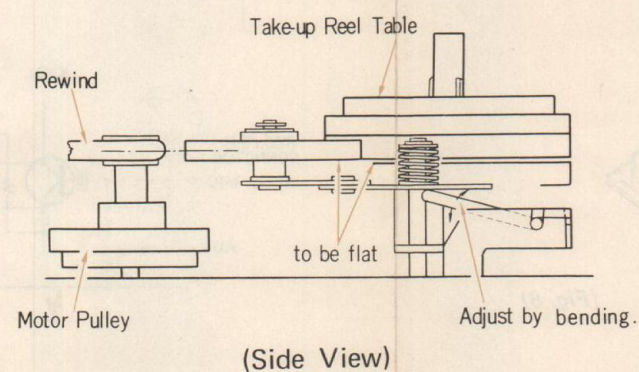


(Top View)

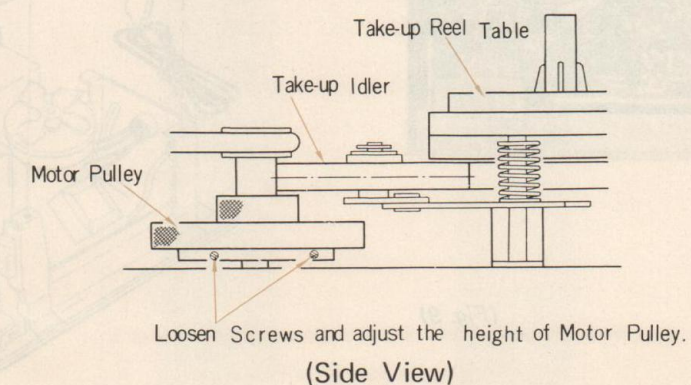
### B Head Deck Position Adjustment in FORWARD mode



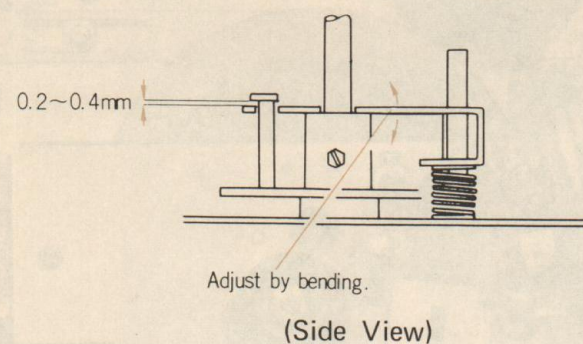
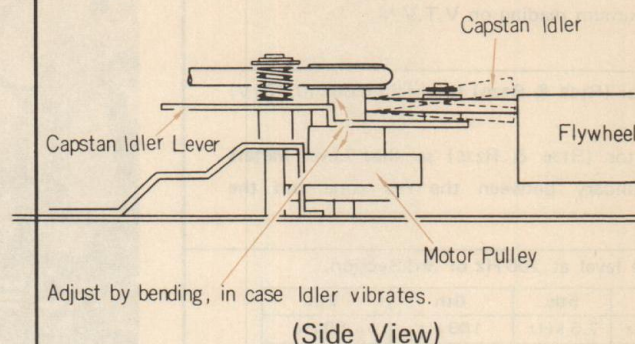
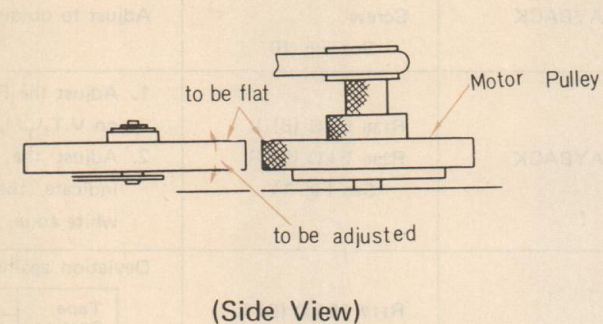
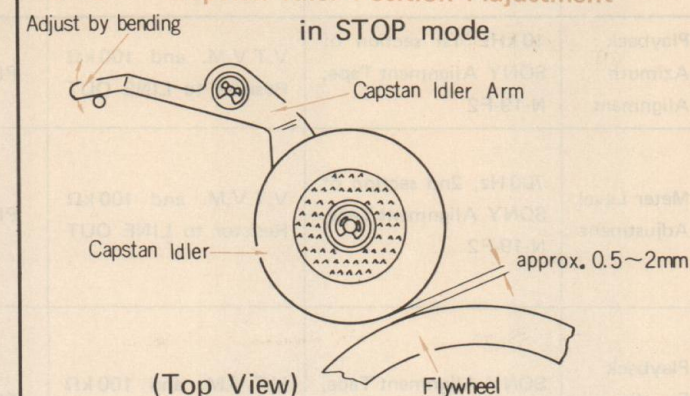
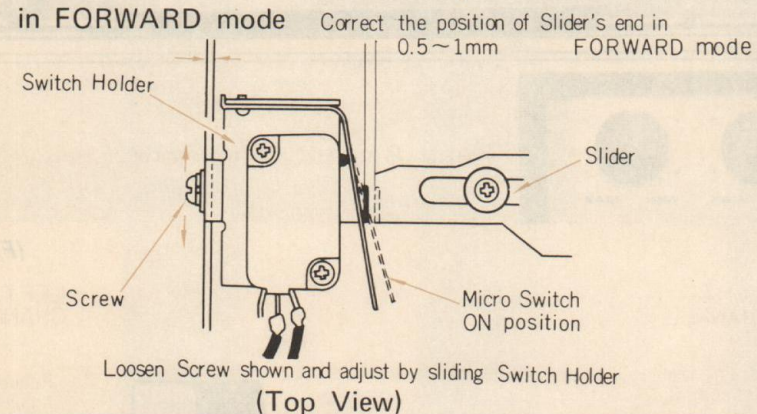
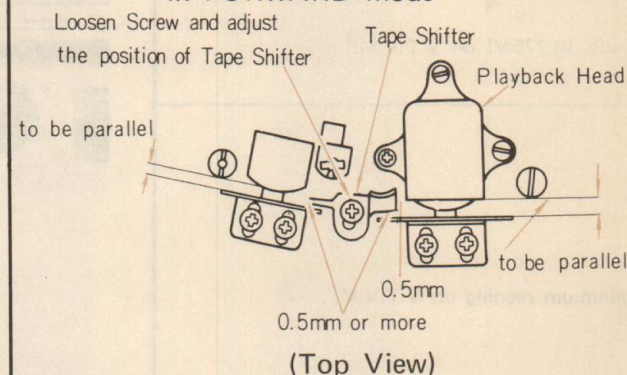
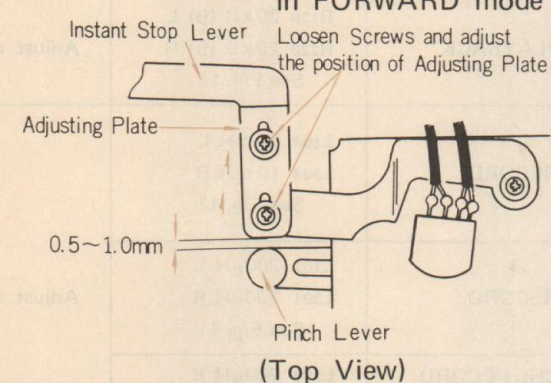
### C Take-up Idler Height Adjustment in FAST FORWARD mode



### D Take-up Idler Position Adjustment in FORWARD mode



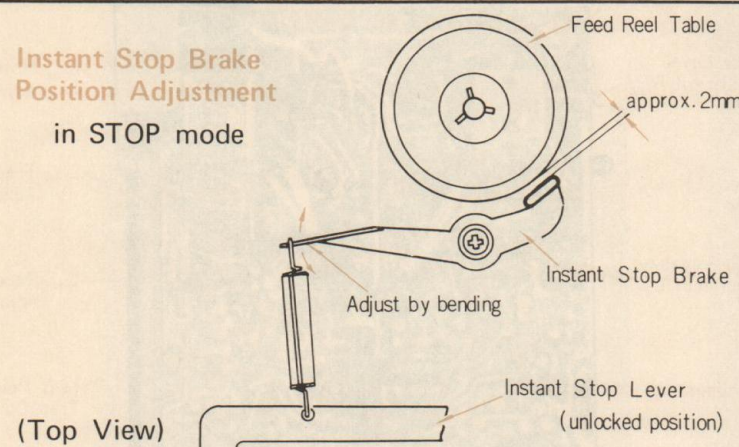
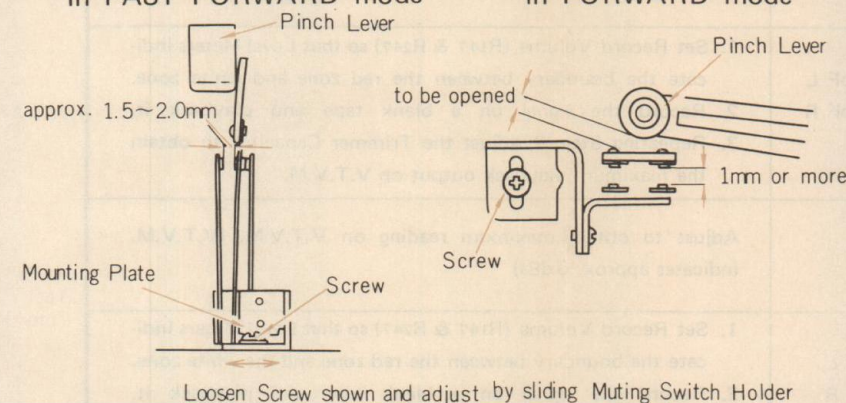
## Mechanical Adjustment

**E** FAST FORWARD Lever Position Adjustment  
in FAST FORWARD mode**F** Capstan Idler Slip Check  
in FORWARD mode**G** Capstan Idler Position Adjustment  
in STOP mode**H** Capstan Idler Position Adjustment  
in STOP mode**I** Bias ON/OFF Switch Position Adjustment  
in FORWARD mode**J** Tape Shifter Adjustment  
in FORWARD mode**K** Instant Stop Lever Adjustment  
in FORWARD mode

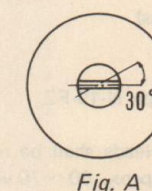
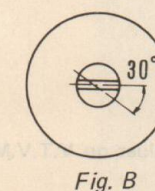
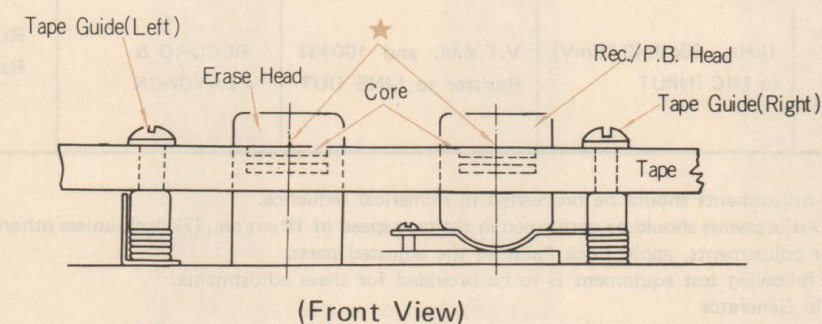
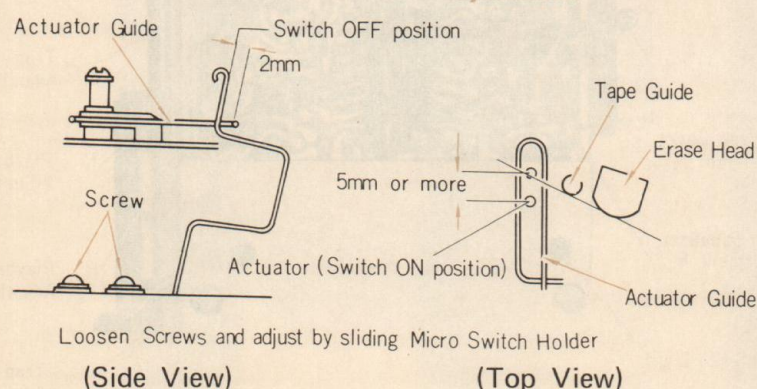
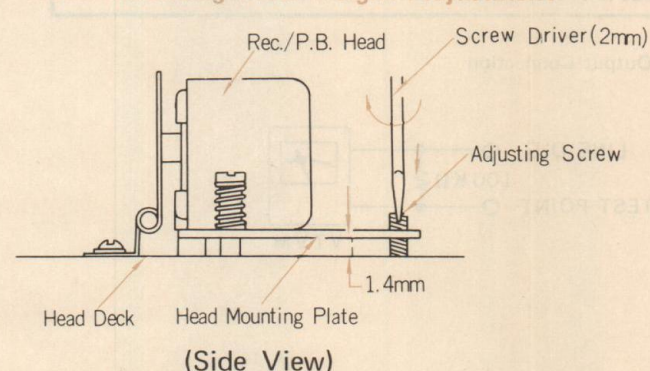
## NOTE

In case the following parts are soiled with oil or dust, clean them with Alcohol.

- Feed Reel Table Rimb
- Take-up Reel Table Rimb
- Reel Spindle Rimb
- Take-up Idler
- Capstan Idler
- Rewind Idler
- Rewind Belt
- Motor pulley
- Flywheel Rimb
- Capstan
- Pinch Roller
- Tape Index Counter Belt
- Heads

**L** Instant Stop Brake  
Position Adjustment  
in STOP mode**M** Muting Switch Adjustment  
in FAST FORWARD mode in FORWARD mode**P** Tape Guide Adjustment  
in FORWARD mode

1. Keep Head Shield Plate laying down forward by finger tip.
2. Adjust Tape Guide so that Cores are just visible above the top edge of Tape. (\*)
3. Turn Tape Guide (Right) counterclockwise by approx. 30° as shown in Fig. A and the Tape Guide (Left) clockwise by 30 degrees as shown in Fig. B.

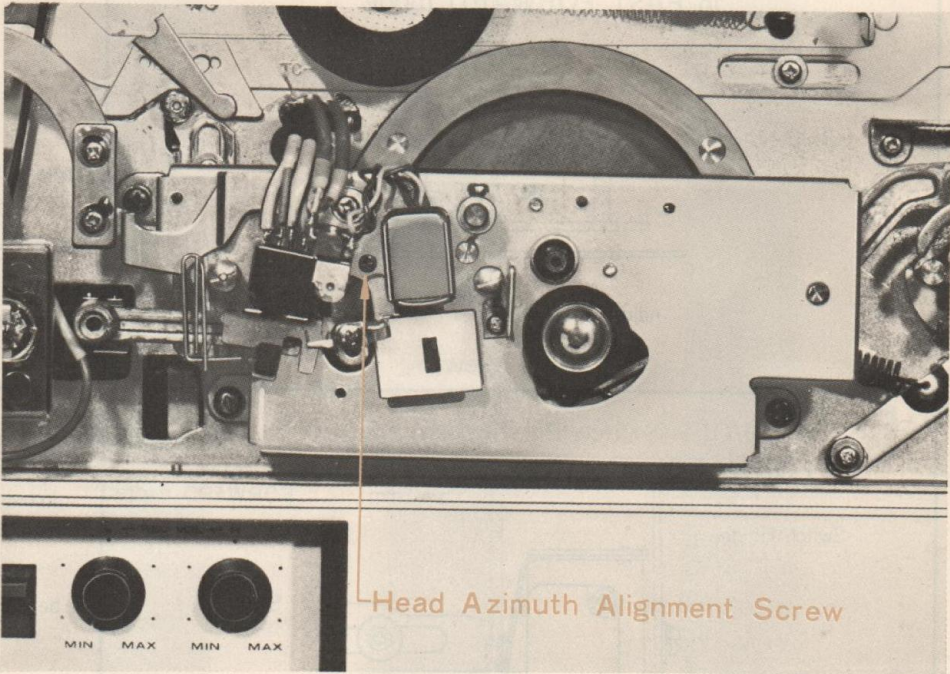
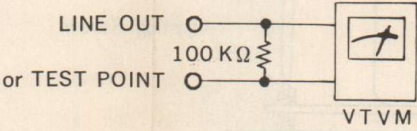
**N** Automatic Shut-OFF Switch Adjustment**O** Head Mounting Plate Height Adjustment

Electrical Adjustment

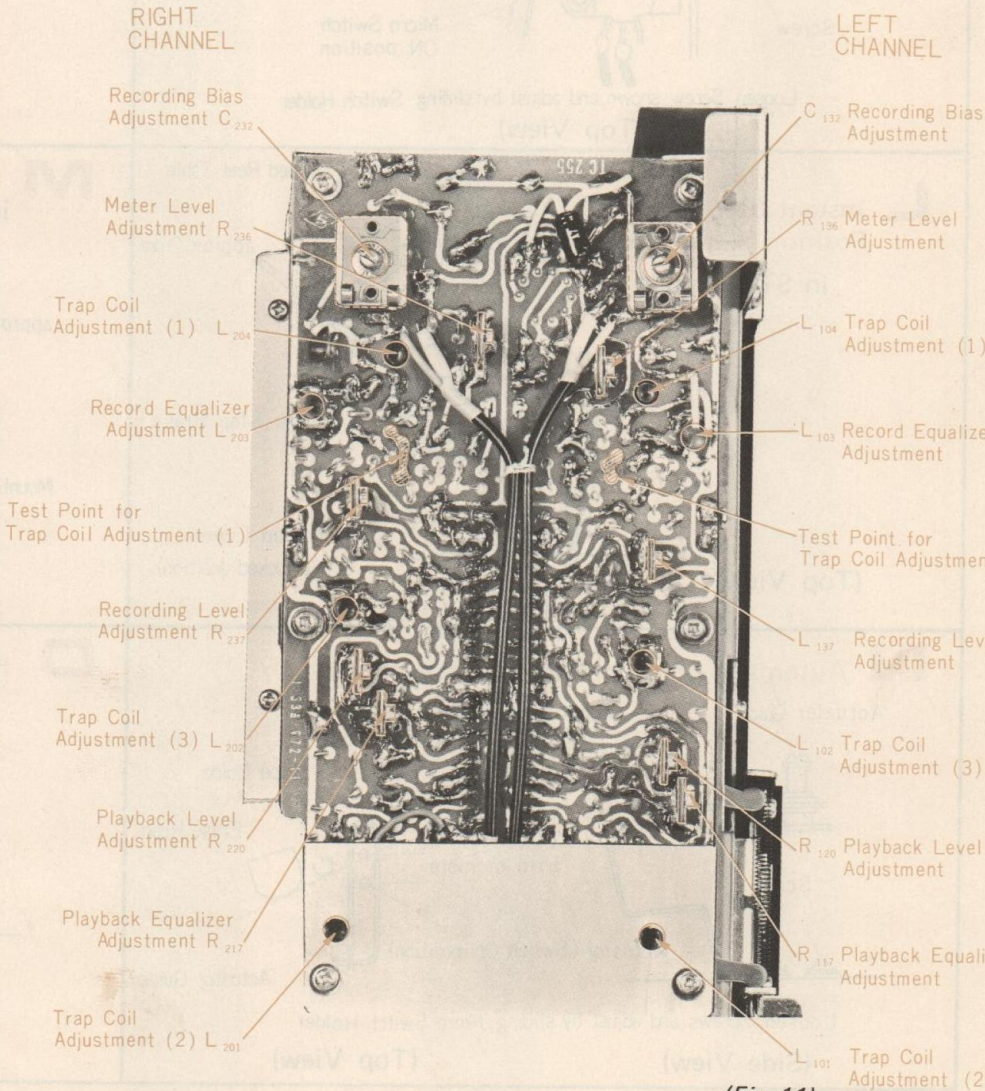
| Item                             | Signal Source                                       | Output Connection                                                    | Mode                                                         | Adjust                                                         | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                    |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------------|---------------|--------------|------|--------|--------|-----------|-----------|------|--------|--------|-----------|-----------|
| 1. Playback Azimuth Alignment    | 10 kHz 1st section of SONY Alignment Tape, N-19-F2  | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | PLAYBACK                                                     | Azimuth Alignment Screw<br>See Fig. 10                         | Adjust to obtain maximum reading on V.T.V.M.                                                                                                                                                                                                                                                                                                                                                                               |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 2. Meter Level Adjustment        | 700 Hz, 2nd section of SONY Alignment Tape, N-19-F2 | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | PLAYBACK                                                     | R136 5 kΩ (B) L<br>R236 5 kΩ (B) R<br>See Fig. 11              | 1. Adjust the Resistor (R120 & R220) to obtain 0 dBs (0.775 V) on V.T.V.M.<br>2. Adjust the Resistor (R136 & R236) so that Level Meters indicate the boundary between the red zone and the white zone.                                                                                                                                                                                                                     |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 3. Playback Equalizer Adjustment | SONY Alignment Tape, N-19-F2                        | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | PLAYBACK                                                     | R117 10 kΩ (B) L<br>R217 10 kΩ (B) R<br>See Fig. 11            | Deviation against the level at 700 Hz of 3rd Section. <table><tr><td>Tape Section</td><td>4th<br/>10 kHz</td><td>5th<br/>7.5 kHz</td><td>6th<br/>100 Hz</td><td>7th<br/>50 Hz</td></tr><tr><td>CH-1</td><td>0±2 dB</td><td>0±2 dB</td><td>+3.5±2 dB</td><td>+2.0±2 dB</td></tr><tr><td>CH-2</td><td>0±2 dB</td><td>0±2 dB</td><td>+4.0±2 dB</td><td>+3.0±2 dB</td></tr></table> Adjust to obtain the response shown above. | Tape Section | 4th<br>10 kHz | 5th<br>7.5 kHz | 6th<br>100 Hz | 7th<br>50 Hz | CH-1 | 0±2 dB | 0±2 dB | +3.5±2 dB | +2.0±2 dB | CH-2 | 0±2 dB | 0±2 dB | +4.0±2 dB | +3.0±2 dB |
| Tape Section                     | 4th<br>10 kHz                                       | 5th<br>7.5 kHz                                                       | 6th<br>100 Hz                                                | 7th<br>50 Hz                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| CH-1                             | 0±2 dB                                              | 0±2 dB                                                               | +3.5±2 dB                                                    | +2.0±2 dB                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| CH-2                             | 0±2 dB                                              | 0±2 dB                                                               | +4.0±2 dB                                                    | +3.0±2 dB                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 4. Playback Level Adjustment     | 700 Hz, 2nd section of SONY Alignment Tape, N-19-F2 | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | PLAYBACK                                                     | R120 20 kΩ (B) L<br>R220 20 kΩ (B) R<br>See Fig. 11            | Adjust to obtain 0 dBs (0.775 V) on V.T.V.M.                                                                                                                                                                                                                                                                                                                                                                               |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 5. Trap Coil Adjustment (1)      | _____                                               | V.T.V.M. and 100 kΩ Resistor to Test Point and Ground<br>See Fig. 11 | RECORD                                                       | L104 10 mH L<br>L204 10 mH R<br>See Fig. 11                    | Adjust to obtain minimum reading on V.T.V.M.                                                                                                                                                                                                                                                                                                                                                                               |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 6. Trap Coil Adjustment (2)      | _____                                               | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | RECORD                                                       | L101 200μH L<br>L201 200μH R<br>See Fig. 11                    |                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 7. Trap Coil Adjustment (3)      | _____                                               | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | CH1 RECORD<br>CH2 PLAYBACK<br><br>CH1 PLAYBACK<br>CH2 RECORD | L202 200μH R<br>See Fig. 11<br><br>L102 200μH L<br>See Fig. 11 |                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 8. Recording Bias Adjustment     | 1kHz, -60dBs (0.78mV) to MIC INPUT                  | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | RECORD & PLAYBACK                                            | C132 30~200pF L<br>C232 30~200pF R<br>See Fig. 11              | 1. Set Record Volume (R147 & R247) so that Level Meters indicate the boundary between the red zone and white zone.<br>2. Record the signal on a blank tape and playback it.<br>3. Repeating Step 2, adjust the Trimmer Capacitor to obtain the maximum playback output on V.T.V.M.                                                                                                                                         |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 9. Record Equalizer Adjustment   | 18 kHz, -80dBs (78μV) to MIC INPUT                  | V.T.V.M. across Rec./P.B. Head                                       | RECORD                                                       | L103 2 mH L<br>L203 2 mH R<br>See Fig. 11                      | Adjust to obtain maximum reading on V.T.V.M. (V.T.V.M. indicates approx. 0 dBs)                                                                                                                                                                                                                                                                                                                                            |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |
| 10. Recording Level Adjustment   | 1kHz, -60dBs (0.78mV) to MIC INPUT                  | V.T.V.M. and 100 kΩ Resistor to LINE OUT                             | RECORD & PLAYBACK                                            | R137 20 kΩ (B) L<br>R237 20 kΩ (B) R<br>See Fig. 11            | 1. Set Record Volume (R147 & R247) so that Level Meters indicate the boundary between the red zone and the white zone.<br>2. Record the signal on a blank tape and playback it.<br>3. Repeating Step 2, adjust the Adjustable Resistors to obtain 0 dBs (0.775V) on V.T.V.M. in PLAYBACK mode.                                                                                                                             |              |               |                |               |              |      |        |        |           |           |      |        |        |           |           |

**Note:** 1. The Adjustments should be proceeded in numerical sequence.  
2. The Adjustments should be performed in the tape speed of 19 cm/sec. (7½ ips), unless otherwise specified.  
3. After adjustments, apply Lock Paint to the adjusted parts.  
4. The following test equipment is to be provided for these adjustments.  
Audio Generator  
Attenuator (600 ohms)  
V.T.V.M.  
100 k ohm Resistor  
SONY Alignment Tape N-19-F2  
Blank Tape  
5. Bias Voltage across Heads shall be measured with the following values on V.T.V.M.  
Rec./P.B. Head: Approx. 60~70 volts  
Erase Head: Approx. 80~90 volts

6. Output Connection

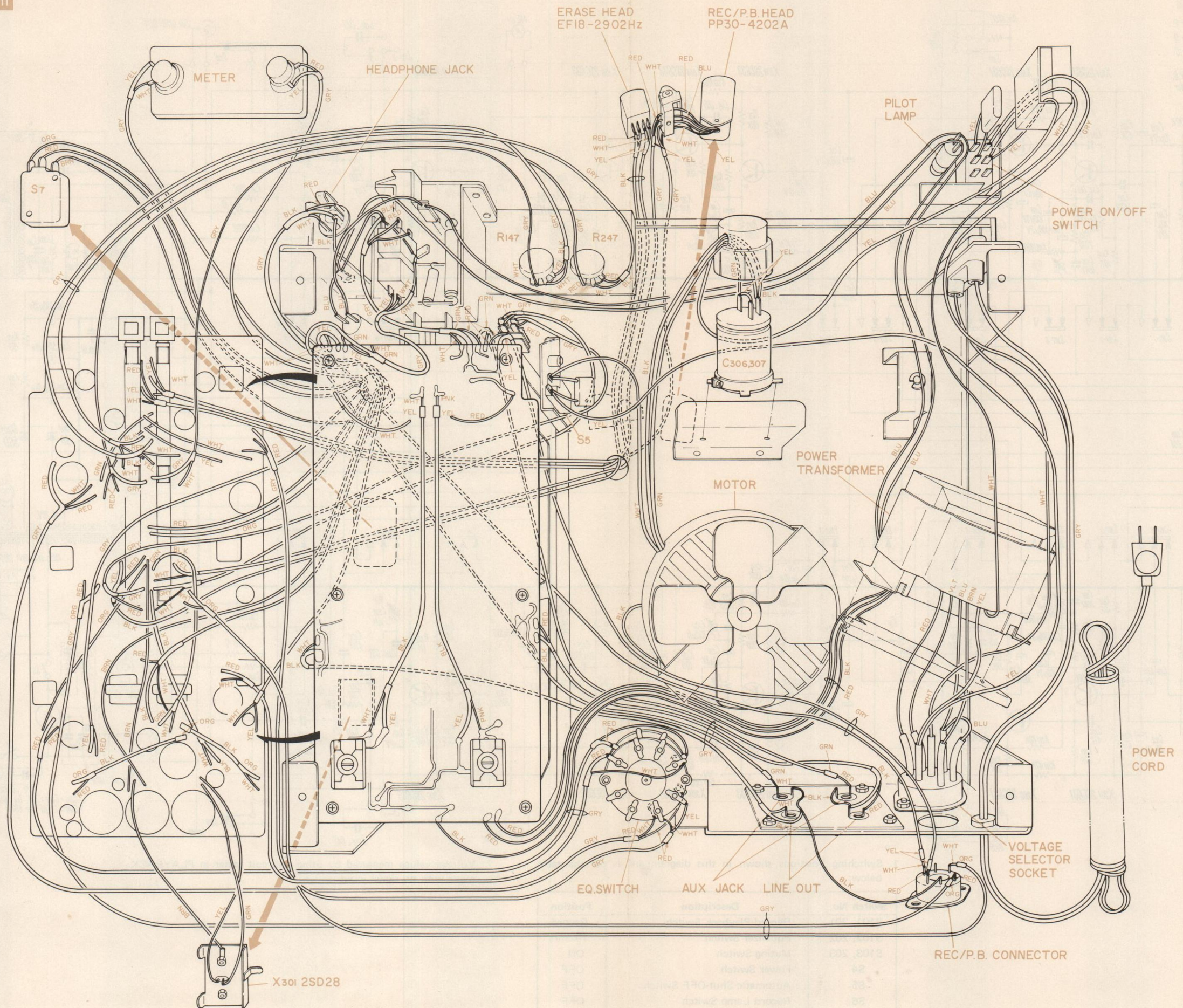


(Fig. 10)

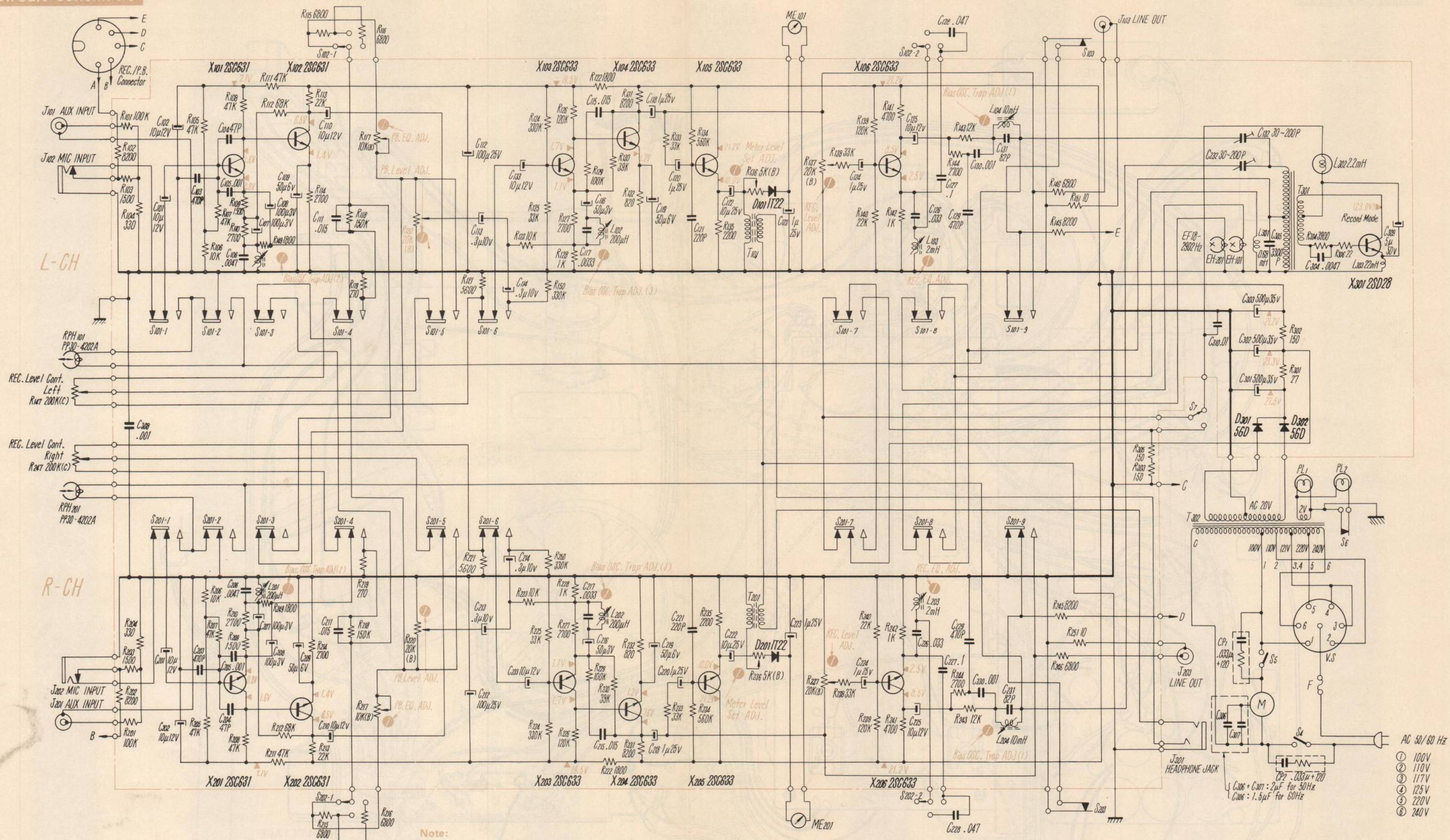


(Fig. 11)

Wiring Diagram



## Circuit Schematic



## Note:

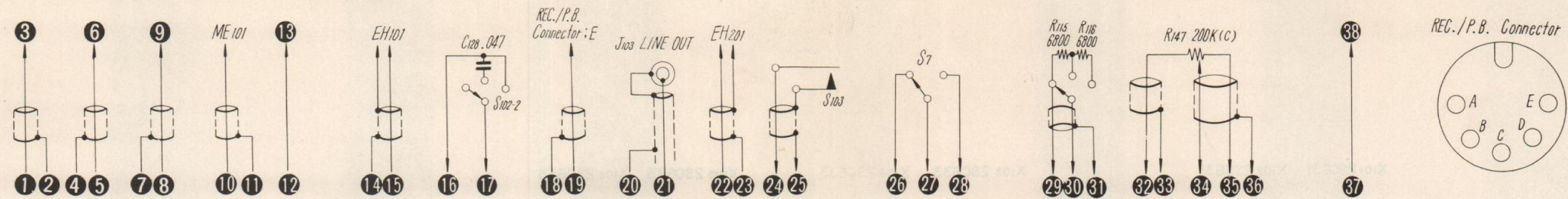
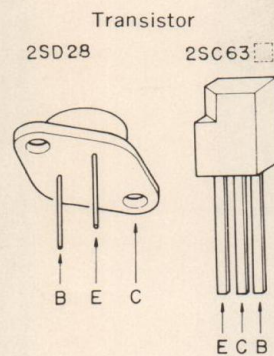
1. Switching Positions shown in this diagram are as per the table below:

| Switch No. | Description                   | Position |
|------------|-------------------------------|----------|
| S101, 201  | Record/Playback Switch        | Record   |
| S102, 202  | Equalizer Switch              | 19 cm/s  |
| S103, 203  | Muting Switch                 | ON       |
| S4         | Power Switch                  | OFF      |
| S5         | Automatic Shut-OFF Switch     | OFF      |
| S6         | Record Lamp Switch            | OFF      |
| S7         | Bias Oscillator ON/OFF Switch | ON       |

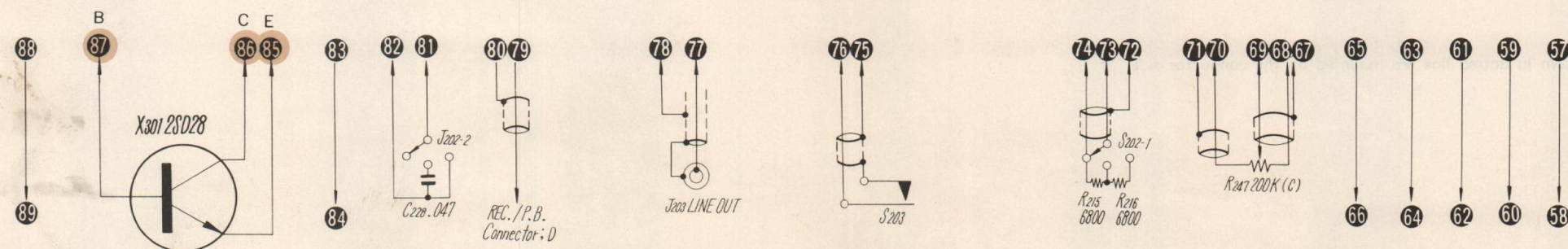
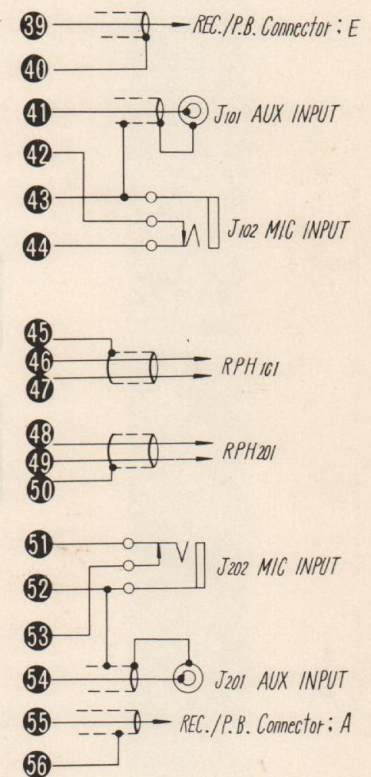
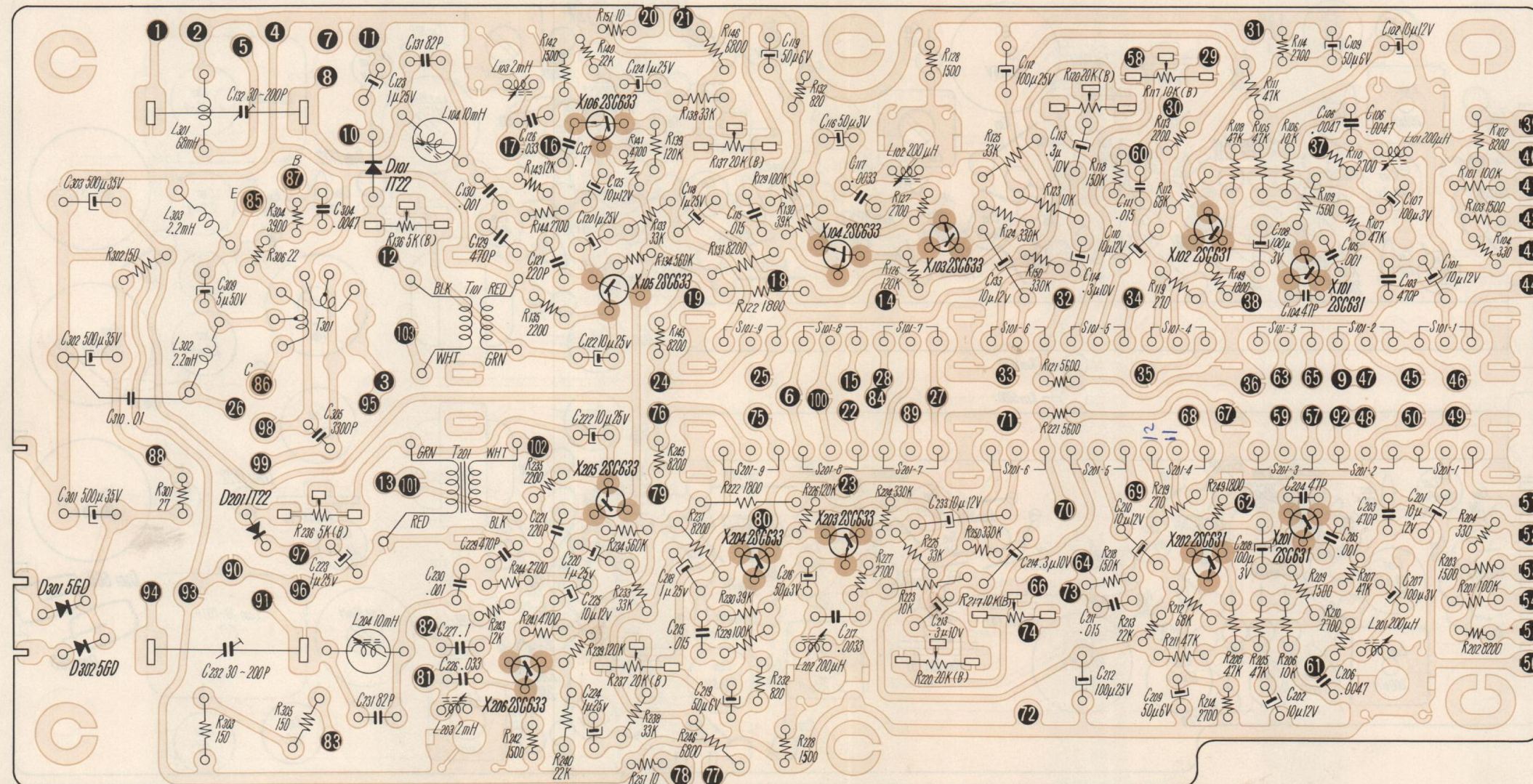
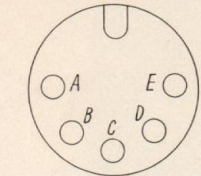
2. Voltage values measured by using a circuit tester in PLAYBACK mode with no signal input.

## Mounting Diagram

— Conductor Side —

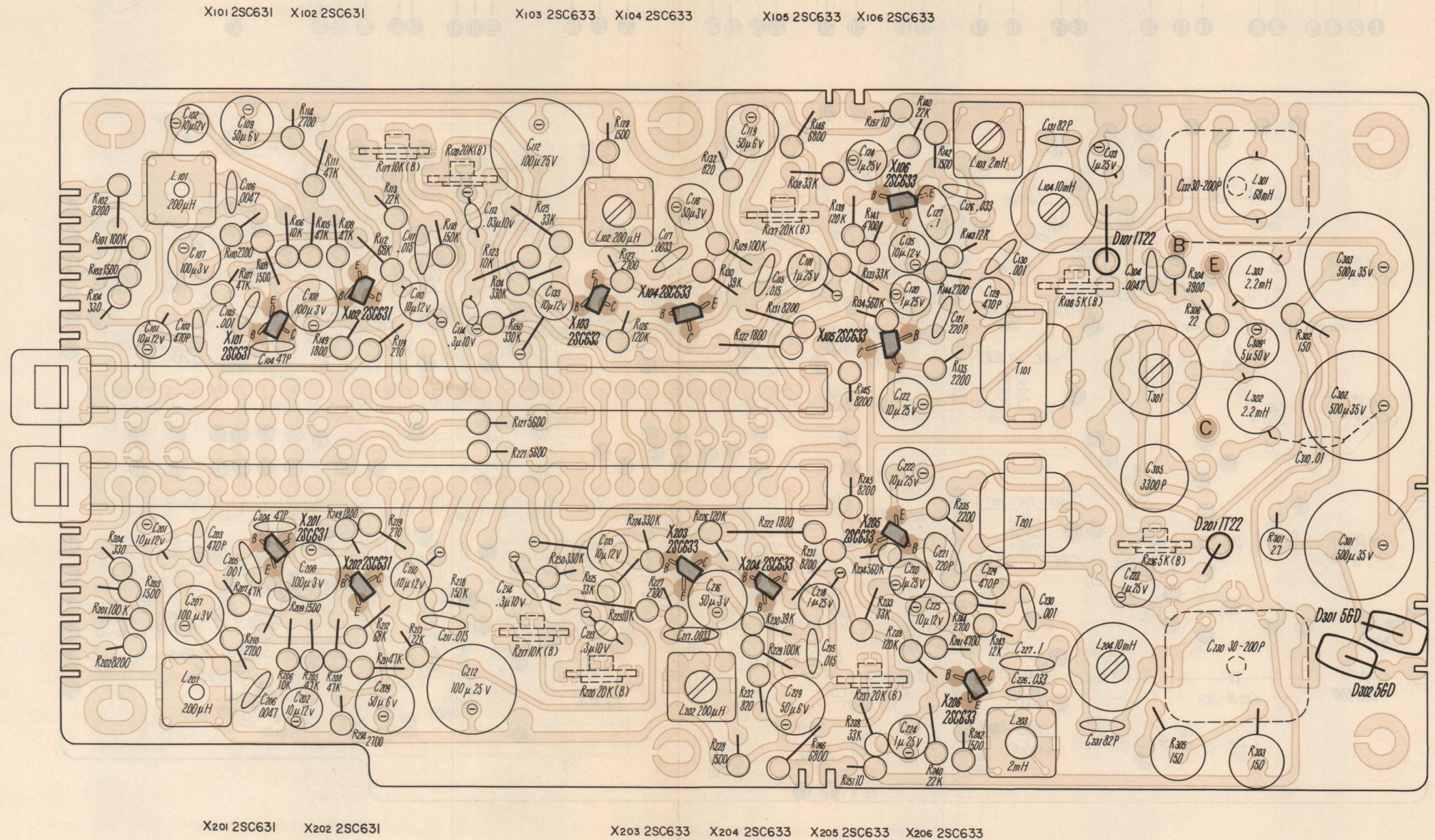


REC./P.B. Connector



### Mounting Diagram

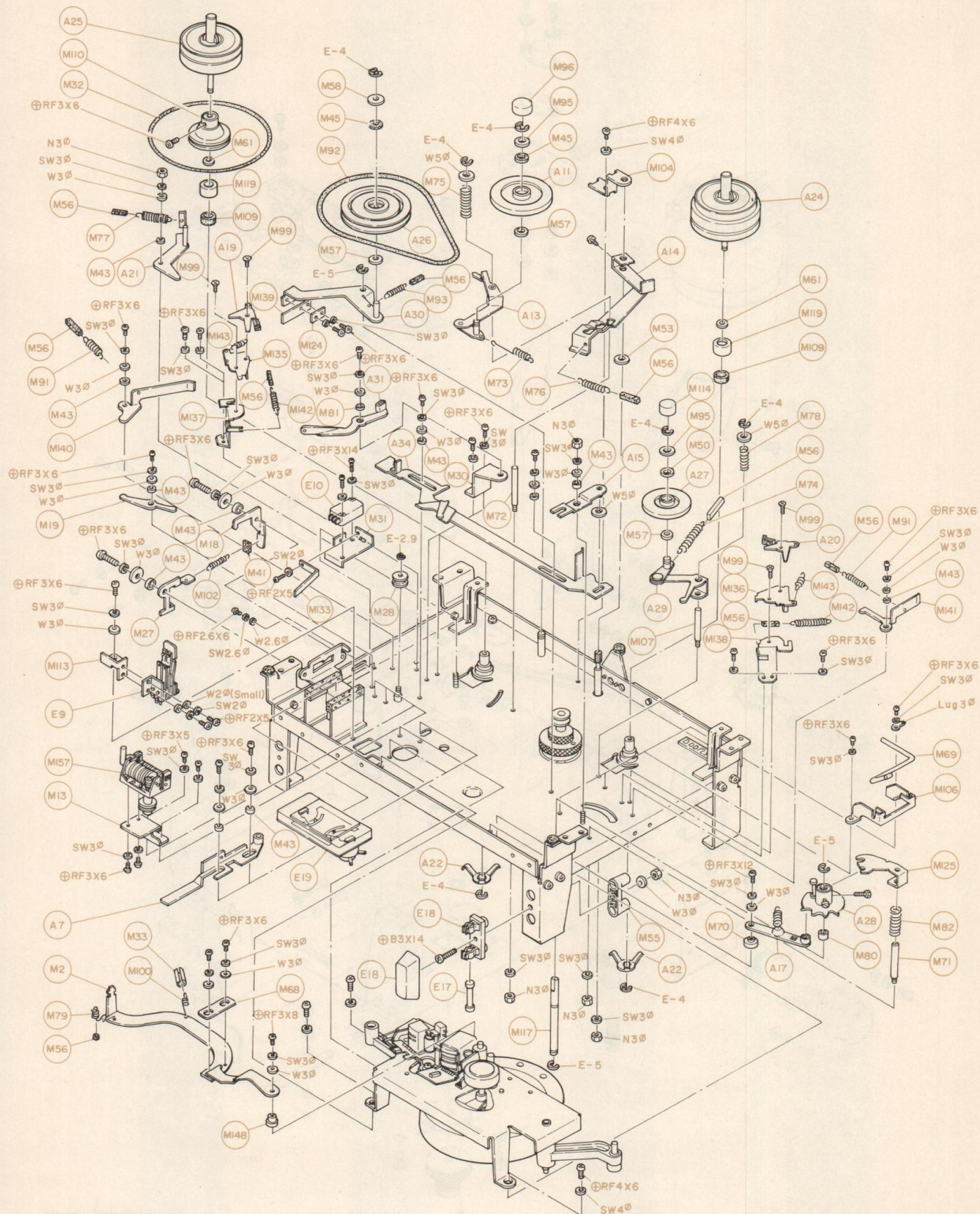
— *Component Side* —



Parts shown in dotted line are mounted on the conductor side.

## Exploded Diagram

### Tape Transport Mechanism – Top View

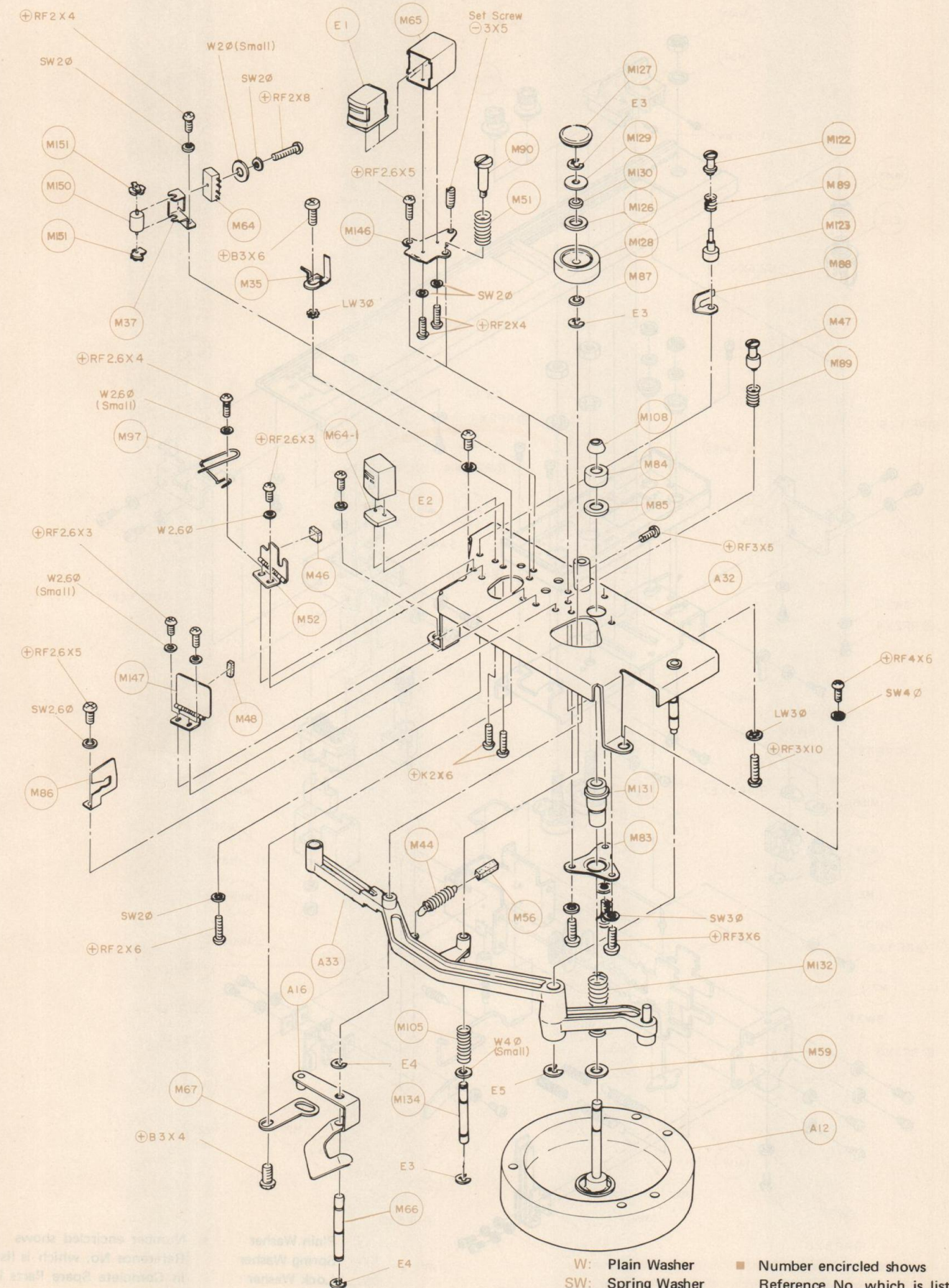


W: Plain Washer  
SW: Spring Washer  
LW: Lock Washer  
N: Nut  
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in Complete Spare Parts List attached hereto.

### Exploded Diagram

Head Deck – Top View

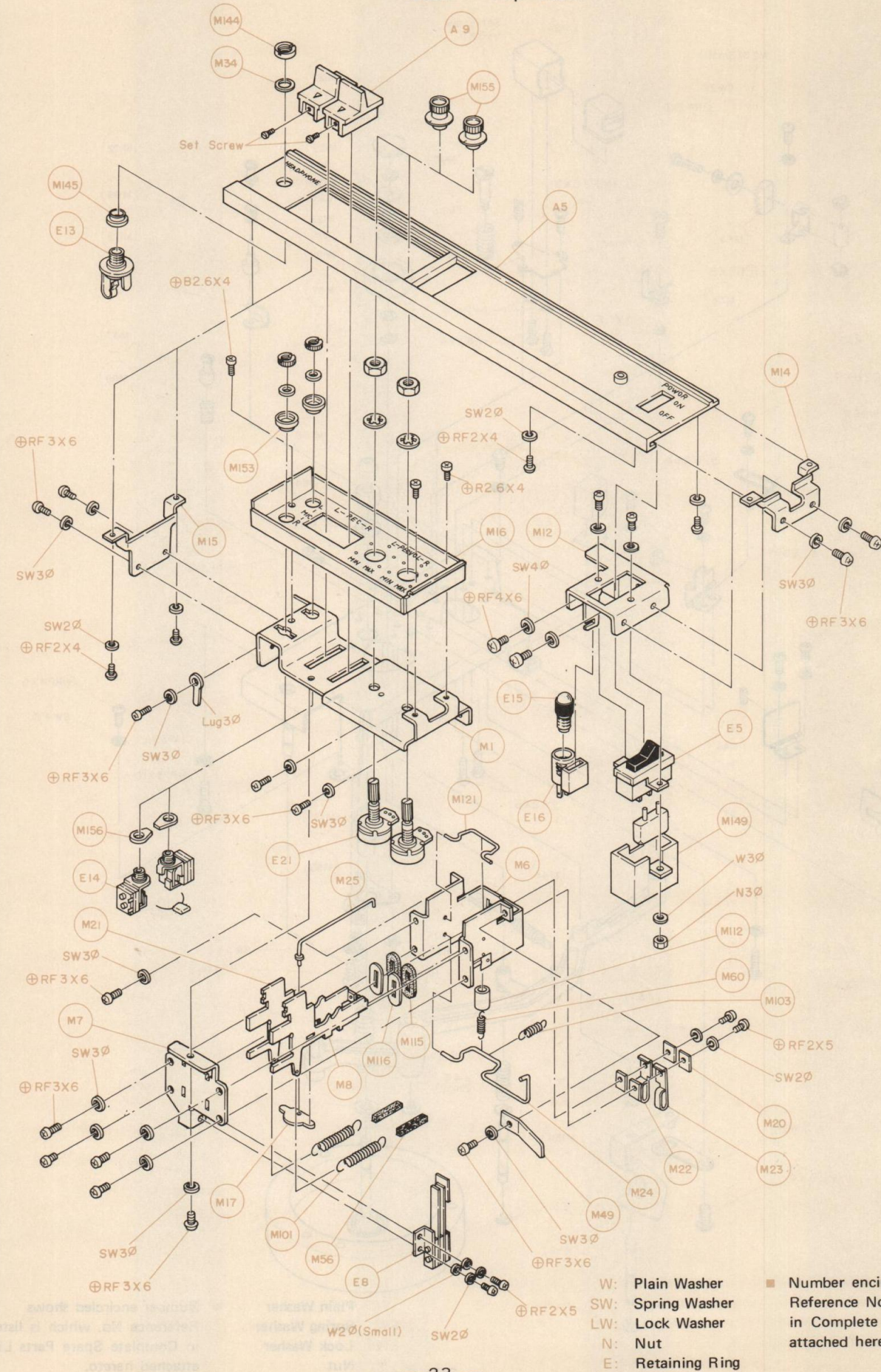


W: Plain Washer  
SW: Spring Washer  
LW: Lock Washer  
N: Nut  
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in Complete Spare Parts List attached hereto.

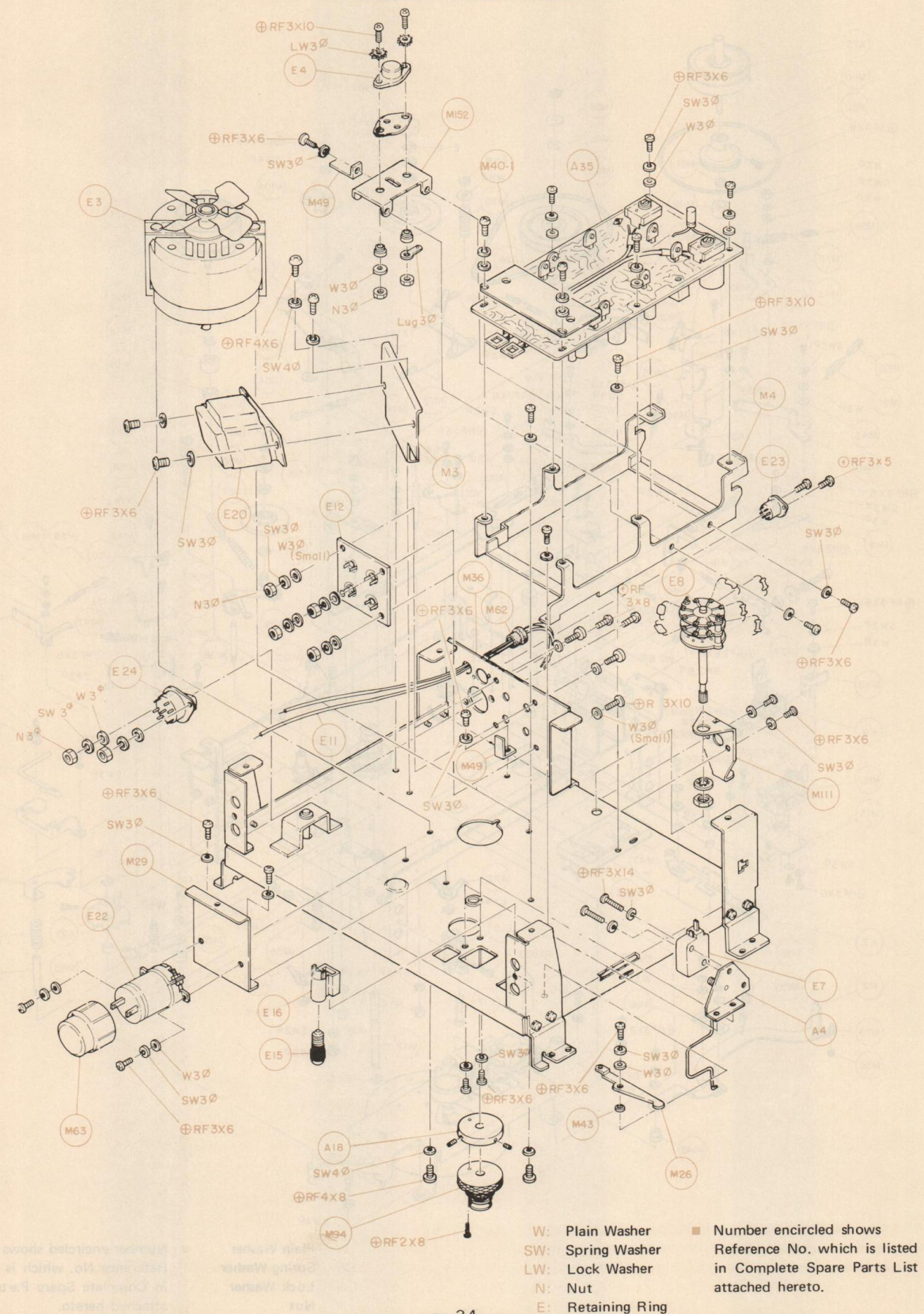
## Exploded Diagram

Sash — Top View



## Exploded Diagram

Chassis — Bottom View



## Complete Spare Parts List for TC-255E

3-111 (JC-322E)

4-111 (JC-322E)

(C3-3E)

Ref. No. Part No. Description Q'ty

|       |           |                                          |    |
|-------|-----------|------------------------------------------|----|
| M4    | 3-438-024 | Bracket, printed circuit board mounting- | 1  |
| M5    | -603      | Bracket, jack                            | 1  |
| M6    | -026      | Bracket, record change-over              | 1  |
| M7    | -027      | Bracket, record lever                    | 1  |
| M8    | -028      | Lever, record (A)                        | 1  |
| M9    | -029      | Leg Plate                                | 1  |
| M10   | -030      | Leg Plate (left)                         | 1  |
| M11   | -031      | Leg Plate (right)                        | 1  |
| M12   | -032      | Bracket, switch                          | 1  |
| M13   | -033      | Bracket, tape index counter              | 1  |
| M14   | -034      | Bracket, sash (small)                    | 1  |
| M15   | -035      | Bracket, sash (large)                    | 1  |
| M16   | -036      | Ornamental Plate, Jack                   | 1  |
| M17   | -037      | Movement Bracket, leaf switch            | 1  |
| M18   | -038      | Bracket, instant stop shifter (A)        | 1  |
| M19   | -039      | " " " (B)                                | 1  |
| M20   | -040      | Retainer, plate spring                   | 4  |
| M21   | -041      | Lever, record (B)                        | 1  |
| M22   | -042      | Spring, slide switch plate (A)           | 1  |
| M23   | -043      | " " " (B)                                | 1  |
| M24   | -044      | Lock Lever, crank                        | 1  |
| M25   | -046      | Pull Rod, lock plate                     | 1  |
| M26   | 3-430-047 | Bracket, instant stop lock               | 1  |
| M27   | 3-430-048 | Bracket, instant stop shifter (C)        | 1  |
| M28   | 3-430-049 | Pinch Roller                             | 1  |
| M29   | 3-430-050 | Holder, capacitor                        | 1  |
| M30   | -051      | Bracket, instant stop brake lever        | 1  |
| M31   | 3-430-052 | Holder, micro switch                     | 1  |
| M32   | 3-430-053 | Belt, tape index counter                 | 1  |
| M33   | -054      | Collar, instant stop                     | 1  |
| M34   | 3-430-055 | Washer                                   | 1  |
| M35   | -056      | Head Pad Shifter                         | 1  |
| M36   | -057      | Protecting Sheet                         | 1  |
| M37   | 3-430-058 | Bracket, scrape filter roller            | 1  |
| M38   | -059      | Sash A                                   | 1  |
| M39   | -060      | " B                                      | 1  |
| M40   | -075      | Insulator Jack                           | 1  |
| M40-1 | -076      | Cover, pre-amplifier                     | 1  |
| M41   | -077      | Cushion, shifter plate                   | 1  |
| M42   | -079      | Nut, plate                               | 2  |
| M43   | -602      | Name Plate (UL)                          | 1  |
| M43   | 0-027-134 | Shaft, stepper arm (washer)              | 11 |
| M44   | -113      | Tab                                      | 1  |
| M45   | -115      | OXI Ring, cabinet apron receptor         | 1  |
| M46   | -117      | Ring Cap, cabinet apron receptor         | 1  |
| M47   | -118      | Zipper, cabinet apron receptor           | 1  |
| M48   | 3-438-101 | Tab                                      | 1  |

Description

2/11 (TC-255E)

(C2-26)

Jan., '68

| Ref. No. | Part No.   | Description                            | Unit Price | Q'ty |
|----------|------------|----------------------------------------|------------|------|
| M81      | -080       | Base Plate (Chassis) Ass'y             | 1          | 1    |
| A10      | X-34380-01 | Reel Panel Ass'y                       | 1          | 1    |
| A20      | -002       | Cabinet Ass'y                          | 1          | 1    |
| A30      | -003       | Bracket Ass'y, actuator                | 1          | 1    |
| A40      | -004       | Sash Ass'y, front panel                | 1          | 1    |
| A50      | -005       | Head Cover Ass'y                       | 1          | 1    |
| A60      | -007       | Bracket, stopper lock                  | 1          | 1    |
| A70      | -008       | Button Ass'y, fast forward             | 1          | 1    |
| A80      | -010       | Button Ass'y, record                   | 2          | 1    |
| A90      | -011       | Knob Ass'y, function selector          | 1          | 1    |
| A10      | -013       | Mold Ass'y, idler (A)                  | 1          | 1    |
| A11      | X-00270-03 | Flywheel Ass'y, capstan                | 1          | 1    |
| A12      | X-34180-04 | Arm Ass'y, idler (A)                   | 1          | 1    |
| A13      | -006       | Lever Ass'y, speed selector            | 1          | 1    |
| A14      | -008       | Lever Ass'y, joint                     | 1          | 1    |
| A15      | -014       | Cam Ass'y, pinch roller up & down      | 1          | 1    |
| A16      | -027       | Stepper Arm Ass'y                      | 1          | 1    |
| A17      | -030       | Holder Ass'y, motor pulley             | 1          | 1    |
| A18      | 3-430-033  | Brake Ass'y, feed reel table           | 1          | 1    |
| A19      | X-34250-23 | Brake Ass'y, take-up reel              | 1          | 1    |
| A20      | 3-430-024  | Lever Ass'y, capstan idler release     | 1          | 1    |
| A21      | X-34300-02 | Tension Spring Ass'y                   | 2          | 1    |
| A22      | -033       | Knob Ass'y, speed selector             | 1          | 1    |
| A23      | -039       | Table Ass'y, take-up reel              | 1          | 1    |
| A24      | -041       | Table Ass'y, feed reel                 | 1          | 1    |
| A25      | 3-430-041  | Idler Ass'y, rewind                    | 1          | 1    |
| A26      | 3-430-042  | Cam Ass'y, function selector           | 1          | 1    |
| A27      | 3-430-043  | Lever Ass'y, take-up idler             | 1          | 1    |
| A28      | 3-430-044  | Lever Ass'y, rewind idler              | 1          | 1    |
| A29      | 3-430-045  | Brake Ass'y, instant stop              | 1          | 1    |
| A30      | X-34360-15 | Head Deck Ass'y                        | 1          | 1    |
| A31      | 3-430-046  | Lever Ass'y, pinch roller              | 1          | 1    |
| A32      | 3-430-047  | Slider (C) Ass'y                       | 1          | 1    |
| A33      | 0-020-024  | Bracket, jack (left)                   | 1          | 1    |
| A34      | X-34380-09 | Lever, instant stop                    | 1          | 1    |
| M1       | 3-438-021  | Bracket, power transformer             | 1          | 1    |
| M2       | 0-041-022  | Leg, case peg                          | 1          | 1    |
| M3       | 0-031-601  | Ring, oil absorber (Y) 24              | 3          | 1    |
| M4       | -030       | Helical Spring, cabinet apron receptor | 1          | 1    |
| M5       | 0-031-103  | Tab                                    | 1          | 1    |

Description

1/11

(C2-26)

(C5-32)

| Ref. No. | Part No.     | Description                            | Q'ty |
|----------|--------------|----------------------------------------|------|
| M44      | 0-027-193    | Helical Spring, capstan idler lever    | 1    |
| M45      | -216         | Ring, oil absorber (A); 5ø             | 2    |
| M46      | -473         | Pad, erase head                        | 1    |
| M47      | 0-037-406    | Tape Guide, feed reel                  | 1    |
| M48      | 0-041-041    | Washer, reel panel (C)                 | 3    |
| M49      | 0-051-235    | Wire Retainer                          | 1    |
| M50      | 0-056-322    | Ring, oil absorber (B)                 | 1    |
| M51      | 3-005-001-70 | Spring, record head adjusting          | 1    |
| M52      | 3-402-655    | Hinge, tape pad; erase head            | 1    |
| M53      | X-343-7642   | Washer, nylon                          | 1    |
| M54      | 3-403-724    | Stopper, rubber foot                   | 4    |
| M55      | 3-419-438    | Cover, foam cushion                    | 1    |
| M56      | 3-420-076    | Rubber Foam Cushion                    | 1    |
| M57      | 3-405-407    | Thrust Washer, drive wheel             | 3    |
| M58      | 3-409-102    | Washer, flywheel shaft                 | 1    |
| M59      | -124         | Washer, reel panel mount               | 1    |
| M60      | -158         | Washer, nylon                          | 2    |
| M61      | X-343-163    | Spring, lock                           | 1    |
| M62      | 3-410-032    | Thrust Washer, capstan idler; nylon    | 2    |
| M63      | X-343-044    | Cap, capacitor                         | 1    |
| M64      | 3-412-078    | Terminal Plate, head                   | 1    |
| M64-1    | -080         | Washer, erase head                     | 1    |
| M65      | -121         | Shield Case (C); large                 | 1    |
| M66      | 3-418-009    | Shaft, pinch roller shifter            | 1    |
| M67      | -0118        | Joint, pinch lever & shifter           | 1    |
| M68      | -035         | Aligning Plate, lever                  | 1    |
| M69      | X-343-053    | Crank, F.F. lever                      | 1    |
| M70      | X-003-054    | Spacer, stepper arm                    | 1    |
| M71      | -053         | Shaft, fast forward                    | 1    |
| M72      | -060         | Shaft, speed selector (A)              | 1    |
| M73      | -069         | Spring, idler arm                      | 1    |
| M74      | -070         | Spring, idler arm (horizontal use)     | 1    |
| M75      | -073         | Spring, idler arm shaft (vertical use) | 1    |
| M76      | -074         | Spring, lever (horizontal use)         | 1    |
| M77      | -075         | Spring, idler release lever            | 1    |
| M78      | -077         | Spring, idler arm shaft (vertical use) | 1    |
| M79      | -079         | Spring, lever                          | 1    |
| M80      | X-343-085    | Spacer, function selector cam shaft    | 1    |
| M81      | -086         | Spacer, instant stop lever             | 1    |
| M82      | SELF -091    | Spring, lock lever shaft               | 1    |

Комплект запасных частей для LC-322E

3/11 (TC-255E)

ВОДА СОБЛЮЖИТИ

(C2-26)

(C5-32)

| Ref. No. | Part No.     | Description                      | Q'ty |
|----------|--------------|----------------------------------|------|
| M123     | 3-430-215    | Shaft, tape guide                | 1    |
| M124     | -223         | Retainer, spring                 | 1    |
| M125     | -227         | Cam, fast forward; lever         | 1    |
| M126     | -231         | Felt, pinch roller, oil absorber | 1    |
| M127     | 8-835-232    | Cap, pinch roller                | 1    |
| M128     | 8-835-233    | Pinch Roller                     | 1    |
| M129     | 8-835-234    | Washer, pinch roller; nylon      | 1    |
| M130     | -235         | Spacer, pinch roller; metal      | 1    |
| M131     | -237         | Sleeve, capstan shaft retainer   | 1    |
| M132     | -238         | Spring, capstan shaft            | 1    |
| M133     | -246         | Retainer, spring                 | 1    |
| M134     | -113         | Spring, push, micro switch       | 1    |
| M135     | 3-436-067    | Shaft, pinch roller              | 1    |
| M136     | -068         | Brake, feed reel                 | 1    |
| M137     | -069         | " , take-up reel                 | 1    |
| M138     | -070         | " , feed reel                    | 1    |
| M139     | -071         | Spring, rewind                   | 1    |
| M140     | -072         | Lever, feed reel brake arm       | 1    |
| M141     | -073         | " , take-up brake arm            | 1    |
| M142     | -075         | Spring, brake (long)             | 2    |
| M143     | 1-834-076-01 | " , (short)                      | 2    |
| M144     | 1-833-087-01 | Nut, special                     | 1    |
| M145     | 1-833-088-02 | Spacer, insulator fiber          | 1    |
| M146     | -120         | Cover, power ON/OFF switch       | 1    |
| M147     | -122         | Mounting Plate, REC./P.B. head   | 1    |
| M148     | -126         | Head Shield, REC./P.B.           | 1    |
| M149     | -695         | Washer, instant stop lever       | 1    |
| M150     | 3-437-170    | AC switch cover                  | 1    |
| M151     | -171         | Roller, scrape filter            | 2    |
| M152     | -213         | Retainer, scrape filter roller   | 1    |
| M153     | -229         | Heat Sink                        | 2    |
| M154     | -271         | Insulator, miniature jack (B)    | 1    |
| M155     | -275         | Knob, instant stop               | 32   |
| M156     | -228         | Knob, volume control             | 2    |
|          | -228         | Insulator, miniature jack (A)    | 1    |
|          | 0-007-259    | Head Pad                         | 1    |
|          | Y-20410-11   | Tape Index Counter XI type       | 1    |
|          | 3-701-028    | Tuck Label; 50 Hz                | 1    |
|          | -029         | " ; 60 Hz                        | 1    |
|          | 3-790-246-11 | Self Label, serial No.           | 1    |
|          | 3-430-229    | Instruction Manual               | 1    |
|          | -030         | Cap, reel C                      | 2    |
|          | 1-831-110-25 | 2 screws (+) B 3.0 x 15          | 1    |

Ref. No. Part No. Description

5/11 (TC-255E)

(C2-26)

| Ref. No. | Part No. | Description | Q'ty |
|----------|----------|-------------|------|
|----------|----------|-------------|------|

|      |           |                                     |   |
|------|-----------|-------------------------------------|---|
| M83  | 3-418-107 | Support, capstan shaft retainer     | 1 |
| M84  | -111      | Ring Cap, capstan shaft retainer    | 1 |
| M85  | -112      | Oil Ring, capstan shaft retainer    | 1 |
| M86  | -113      | Tape Support, right                 | 1 |
| M87  | 0-051-115 | Washer 8ø, pinch roller; nylon      | 1 |
| M88  | -167      | Tape Support; left                  | 1 |
| M89  | -171      | Spring, tape guide height-adjusting | 2 |
| M90  | -191      | Screw, rec./p.b. head height lock   | 1 |
| M91  | -200      | Spring, brake (A)                   | 2 |
| M92  | -208      | Belt, rewind idler                  | 1 |
| M93  | -201      | Spring, brake (C)                   | 1 |
| M94  | -211      | Pulley 60 c/s, motor                | 1 |
| M95  | 3-419-098 | Washer, nylon                       | 2 |
| M96  | -211      | Cap, idler (A)                      | 1 |
| M97  | -070      | Sticker, cabinet                    | 1 |
| M98  | 3-424-030 | Guide, actuator                     | 1 |
| M99  | -049      | Rubber Foot                         | 4 |
| M100 | 3-425-185 | Rivet, stepper                      | 4 |
| M101 | 3-426-151 | Helical Spring, instant stop lever  | 1 |
| M102 | 3-426-502 | Helical Spring, record lever A, B   | 2 |
| M103 | 3-432-152 | Helical Spring, H joint spring      | 1 |
| M104 | 3-430-154 | Bracket, speed selector shaft       | 1 |
| M105 | -156      | Spring, pinch lever arm             | 1 |
| M106 | -157      | Bracket, recording switch crank     | 1 |
| M107 | -158      | Shaft, fast forward                 | 1 |
| M108 | -159      | Shaft, capstan oil retainer         | 1 |
| M109 | -160      | Washer, take-up & feed reel spindle | 2 |
| M110 | -161      | Pulley, tape index counter          | 1 |
| M111 | -162      | Bracket, speed equalizer switch     | 1 |
| M112 | -170      | Spacer, crank                       | 1 |
| M113 | -191      | Bracket, muting switch              | 1 |
| M114 | -198      | Cap, take-up idler                  | 1 |
| M115 | -199      | Washer, recording button black      | 2 |
| M116 | -200      | Washer, recording button            | 2 |
| M117 | -201      | Shaft, function selector            | 1 |
| M118 | -203      | Pin, guide                          | 2 |
| M119 | -206      | Cap, take-up and feed reel spindle  | 2 |
| M120 | -211      | Cushion, VU meter                   | 2 |
| M121 | -212      | Rod, record locking                 | 1 |
| M122 | -214      | Tape Guide, left side               | 1 |

Ref. No. Part No. Description

4/11 (TC-255E)

(C2-26)

(C5-32)

| Ref. No. | Part No.      | Description                | Q'ty |
|----------|---------------|----------------------------|------|
|          | 3-438-064     | Cover, dust                | 1    |
|          | 8-860-007     | Reel R-7A                  | 1    |
|          | 1-534-049     | Cord, power supply RK-56   | 2    |
|          | 3-793-010     | Tape Talk                  | 1    |
|          | -030          | Booklet, SONY tape         | 1    |
|          | -048          | Check Sheet                | 1    |
|          | 3-793-009-11  | Inspection Card            | 1    |
|          | 3-701-020     | Bag, check sheet           | 1    |
|          | 3-401-193     | Head Cleaning Ribbon       | 1    |
|          | 3-438-070     | Carton                     | 1    |
|          | 3-436-408     | Bag, polyethylene          | 1    |
|          | 3-103-191     | Bag, polyethylene          | 1    |
|          | X-34380-14    | Cushion Assy               | 1    |
|          | 3-418-210-01  | Motor Pulley 50 Hz         | 1    |
|          | 1-531-211-13  | " 60 Hz                    | 1    |
|          | 3-438-064     | Dust Protector             | 1    |
|          | 7-621-255-25  | Screw (+) RF 2 x 4         | 7    |
|          | -35           | " (+) RF 2 x 5             | 7    |
|          | X-34380-2-42  | " (+) RF 2 x 6             | 1    |
|          | 1-238-015-55  | " (+) RF 2 x 8             | 2    |
|          | 1-238-032-22  | " (+) RF 2.6 x 3           | 3    |
|          | 1-233-008-32  | " (+) RF 2.6 x 4           | 1    |
|          | 1-235-014-35  | " (+) RF 2.6 x 5           | 1    |
|          | 1-211-003-45  | " (+) RF 2.6 x 6           | 1    |
|          | 1-218-261-32  | " (+) RF 3 x 5             | 2    |
|          | -188-35       | " (+) RF 3 x 5             | 3    |
|          | -108-45       | " (+) RF 3 x 8             | 2    |
|          | -55           | " (+) RF 3 x 10            | 2    |
|          | 1-201-103-62  | " (+) RF 3 x 12            | 1    |
|          | 1-234-083-65  | " (+) RF 3 x 14            | 4    |
|          | -021-75       | " (+) RF 4 x 6             | 8    |
|          | -032-85       | " (+) RF 4 x 8             | 15   |
|          | -268-45       | " (+) RF 4 x 12            | 4    |
|          | 1-214-330-75  | " (+) RF 4 x 22            | 64   |
|          | -269-35       | Spring Washer (+) RF 3 x 6 | 3    |
|          | 7-628-251-25  | " (+) RF 3 x 8             | 2    |
|          | 1-433-111-35  | Screw (+) K 2 x 6          | 4    |
|          | 7-621-555-42  | " (+) K 2.6 x 6            | 3    |
|          | 1-403-2770-36 | " (+) B 2.6 x 4            | 1    |
|          | -083          | " 300H                     | 1    |
|          | -135          | " 300H                     | 1    |
|          | 1-408-131     | Label Coil 10M             | 1    |
|          |               | Label for S2038            | 1    |

Ref. No. Part No. Description

6/11 (TC-255E)

(C2-26)

| Ref.<br>No. | Part No. | Description | Q'ty |
|-------------|----------|-------------|------|
|-------------|----------|-------------|------|

|                         |              |                        |    |
|-------------------------|--------------|------------------------|----|
| M121                    | 7-621-770-52 | Screw (+) B 2.6 x 12   | 1  |
|                         | -23          | " (+) B 3 x 6          | 1  |
|                         | -49          | " (+) B 3 x 6          | 2  |
|                         | 3-430-336-40 | " (+) B 3 x 10         | 4  |
|                         | 3-430-770-52 | " (+) B 3 x 14         | 1  |
|                         | -771-09      | " (+) B 3 x 4          | 1  |
|                         | -713-36      | " (-) R 3 x 5          | 1  |
|                         | 7-623-105-02 | Washer 26 (small)      | 5  |
|                         | -107-02      | " 2.66 ( " )           | 4  |
|                         | 0-001-320-12 | " 2.66 ( " )           | 4  |
| M122                    | -108-02      | " 36 (small)           | 8  |
|                         | -332-12      | " 36 (small)           | 31 |
|                         | -110-02      | " 46 (small)           | 5  |
|                         | -336-12      | " 46 (small)           | 1  |
|                         | -112-12      | " 56 ( " )             | 1  |
|                         | -18          | " 56 ( " )             | 2  |
|                         | -205-22      | " 56 ( " )             | 16 |
|                         | -207-22      | " 56 ( " )             | 4  |
|                         | -208-22      | " 56 ( " )             | 18 |
|                         | -210-22      | " 56 ( " )             | 23 |
| M123                    | -308-05      | Star Washer 36 (inner) | 3  |
|                         | -408-05      | " 36 (inner)           | 3  |
|                         | 7-622-108-02 | Nut 36                 | 15 |
|                         | M124         | Lug 36                 | 3  |
|                         | 7-623-508-01 | Retaining Ring E-3     | 3  |
|                         | 7-624-106-01 | " " E-4                | 9  |
|                         | -108-01      | " " E-5                | 4  |
|                         | -109-01      | " " E-5                | 4  |
|                         | -031         | " " E-5                | 1  |
|                         | -032         | " " E-5                | 1  |
| <b>Electrical Parts</b> |              |                        |    |
| M125                    | 3-430-001    | Transistor 2SC633      | 1  |
|                         | -008         | " 2SC633               | 1  |
|                         | -113         | " 2SC633               | 8  |
|                         | -333         | " 2SC633               | 4  |
|                         | -338         | " 2SC633               | 2  |
|                         | -331         | " 2SC633               | 2  |
|                         | -332         | " 2SC633               | 2  |
|                         | -333         | " 2SC633               | 2  |
|                         | -334         | " 2SC633               | 2  |
|                         | -335         | " 2SC633               | 2  |
| E1                      | 8-821-742-29 | Rec./P.B. Head         | 1  |
|                         | 8-826-629-23 | Erase Head             | 1  |
|                         | 8-832-624-09 | Motor                  | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | 3-430-512    | " 2SC633               | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | -334         | " 2SC633               | 1  |
|                         | -335         | " 2SC633               | 1  |

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(C2-26)

Q'ty

Ref.  
No.

Part No.

Description

Q'ty

| Ref.<br>No. | Part No. | Description | Q'ty |
|-------------|----------|-------------|------|
|-------------|----------|-------------|------|

|    |              |                        |   |
|----|--------------|------------------------|---|
| E4 | 1-409-131    | Transistor 2SD28       | 1 |
|    | -132         | Trap Coil 10mH         | 2 |
|    | -083         | " 200uH                | 2 |
|    | 1-407-193-70 | Coil Dummy 0.68mH      | 1 |
|    | 1-409-130-43 | Coil (+) 2mH           | 2 |
|    | 1-427-217-43 | Output Transformer     | 2 |
|    | 1-433-117-32 | Oscillator Transformer | 1 |
|    | 1-513-220-52 | Slide Switch           | 2 |
|    | -345-11      | Seesaw Switch          | 1 |
|    | 1-514-226-32 | Rotary Switch          | 2 |
| E5 | -039-02      | Micro Switch           | 1 |
|    | -063-02      | Leaf Switch            | 1 |
|    | -055-02      | "                      | 1 |
|    | -057-12      | Micro Switch           | 1 |
|    | 1-534-062-11 | Power Supply Cord      | 1 |
|    | 1-507-163-83 | Jack 4P Pin            | 1 |
|    | -83          | "                      | 1 |
|    | -82          | "                      | 1 |
|    | -81          | "                      | 1 |
|    | -80          | "                      | 1 |
| E6 | -188-32      | Headphone Jack         | 1 |
|    | 1-518-052-35 | Mic Jack M5 type       | 2 |
|    | 1-517-003-92 | Pilot Lamp 2.5V 0.25A  | 2 |
|    | 1-532-014-32 | Lamp Socket            | 2 |
|    | 1-533-006-33 | Fuse Holder            | 1 |
|    | 1-524-035-33 | Level Meter            | 1 |
|    | 1-441-397-13 | Power Transformer      | 1 |
|    | 1-538-672-14 | Printed Circuit Board  | 1 |
|    | X-34380-51-1 | Mounted Circuit Board  | 1 |
|    | -51          | "                      | 1 |
| E7 | 1-221-630-73 | 20K ohms (Adjustable)  | 4 |
|    | 3-438-310-01 | " 20K ohms             | 4 |
|    | X-34380-51-1 | " 20K ohms             | 4 |
|    | 3-438-310-01 | " 20K ohms             | 4 |
|    | 1-242-739    | 560K ohms              | 2 |
|    | 3-438-733    | 330K ohms              | 2 |
|    | 3-401-783    | 150K ohms              | 2 |
|    | 3-401-725    | 120K ohms              | 2 |
|    | 3-433-723-11 | 100K ohms              | 2 |
|    | -721         | 100K ohms              | 2 |
| E8 | 3-433-010    | 100K ohms              | 4 |
|    | 1-234-048    | 100K ohms              | 4 |
|    | 8-800-001    | 100K ohms              | 4 |
|    | 3-438-084    | 100K ohms              | 4 |
|    | -084         | 100K ohms              | 4 |
|    | -085         | 100K ohms              | 4 |
|    | -086         | 100K ohms              | 4 |
|    | -087         | 100K ohms              | 4 |
|    | -088         | 100K ohms              | 4 |
|    | -089         | 100K ohms              | 4 |

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Q'ty

Ref.  
No.

Part No.

Description

Q'ty

| Ref.<br>No. | Part No. | Description | Q'ty |
|-------------|----------|-------------|------|
|-------------|----------|-------------|------|

|                         |              |                        |    |
|-------------------------|--------------|------------------------|----|
| M121                    | 7-621-770-52 | Screw (+) B 2.6 x 12   | 1  |
|                         | -23          | " (+) B 3 x 6          | 1  |
|                         | -49          | " (+) B 3 x 6          | 2  |
|                         | 3-430-336-40 | " (+) B 3 x 10         | 4  |
|                         | 3-430-770-52 | " (+) B 3 x 14         | 1  |
|                         | -771-09      | " (+) B 3 x 4          | 1  |
|                         | -713-36      | " (-) R 3 x 5          | 1  |
|                         | 7-623-105-02 | Washer 26 (small)      | 5  |
|                         | -107-02      | " 2.66 ( " )           | 4  |
|                         | 0-001-320-12 | " 2.66 ( " )           | 4  |
| M122                    | -108-02      | " 36 (small)           | 8  |
|                         | -332-12      | " 36 (small)           | 31 |
|                         | -110-02      | " 46 (small)           | 5  |
|                         | -336-12      | " 46 (small)           | 1  |
|                         | -112-12      | " 56 ( " )             | 1  |
|                         | -18          | " 56 ( " )             | 2  |
|                         | -205-22      | " 56 ( " )             | 16 |
|                         | -207-22      | " 56 ( " )             | 4  |
|                         | -208-22      | " 56 ( " )             | 18 |
|                         | -210-22      | " 56 ( " )             | 23 |
| M123                    | -308-05      | Star Washer 36 (inner) | 3  |
|                         | -408-05      | " 36 (inner)           | 3  |
|                         | 7-622-108-02 | Nut 36                 | 15 |
|                         | M124         | Lug 36                 | 3  |
|                         | 7-623-508-01 | Retaining Ring E-3     | 3  |
|                         | 7-624-106-01 | " " E-4                | 9  |
|                         | -108-01      | " " E-5                | 4  |
|                         | -109-01      | " " E-5                | 4  |
|                         | -031         | " " E-5                | 1  |
|                         | -032         | " " E-5                | 1  |
| <b>Electrical Parts</b> |              |                        |    |
| M125                    | 3-430-001    | Transistor 2SC633      | 1  |
|                         | -008         | " 2SC633               | 1  |
|                         | -113         | " 2SC633               | 8  |
|                         | -333         | " 2SC633               | 4  |
|                         | -338         | " 2SC633               | 2  |
|                         | -331         | " 2SC633               | 2  |
|                         | -332         | " 2SC633               | 2  |
|                         | -333         | " 2SC633               | 2  |
|                         | -334         | " 2SC633               | 2  |
|                         | -335         | " 2SC633               | 2  |
| E1                      | 8-821-742-29 | Rec./P.B. Head         | 1  |
|                         | 8-826-629-23 | Erase Head             | 1  |
|                         | 8-832-624-09 | Motor                  | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | 3-430-512    | " 2SC633               | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | -334         | " 2SC633               | 1  |
|                         | -335         | " 2SC633               | 1  |

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Q'ty

Ref.  
No.

Part No.

Description

Q'ty

| Ref.<br>No. | Part No. | Description | Q'ty |
|-------------|----------|-------------|------|
|-------------|----------|-------------|------|

|                         |              |                        |    |
|-------------------------|--------------|------------------------|----|
| M121                    | 7-621-770-52 | Screw (+) B 2.6 x 12   | 1  |
|                         | -23          | " (+) B 3 x 6          | 1  |
|                         | -49          | " (+) B 3 x 6          | 2  |
|                         | 3-430-336-40 | " (+) B 3 x 10         | 4  |
|                         | 3-430-770-52 | " (+) B 3 x 14         | 1  |
|                         | -771-09      | " (+) B 3 x 4          | 1  |
|                         | -713-36      | " (-) R 3 x 5          | 1  |
|                         | 7-623-105-02 | Washer 26 (small)      | 5  |
|                         | -107-02      | " 2.66 ( " )           | 4  |
|                         | 0-001-320-12 | " 2.66 ( " )           | 4  |
| M122                    | -108-02      | " 36 (small)           | 8  |
|                         | -332-12      | " 36 (small)           | 31 |
|                         | -110-02      | " 46 (small)           | 5  |
|                         | -336-12      | " 46 (small)           | 1  |
|                         | -112-12      | " 56 ( " )             | 1  |
|                         | -18          | " 56 ( " )             | 2  |
|                         | -205-22      | " 56 ( " )             | 16 |
|                         | -207-22      | " 56 ( " )             | 4  |
|                         | -208-22      | " 56 ( " )             | 18 |
|                         | -210-22      | " 56 ( " )             | 23 |
| M123                    | -308-05      | Star Washer 36 (inner) | 3  |
|                         | -408-05      | " 36 (inner)           | 3  |
|                         | 7-622-108-02 | Nut 36                 | 15 |
|                         | M124         | Lug 36                 | 3  |
|                         | 7-623-508-01 | Retaining Ring E-3     | 3  |
|                         | 7-624-106-01 | " " E-4                | 9  |
|                         | -108-01      | " " E-5                | 4  |
|                         | -109-01      | " " E-5                | 4  |
|                         | -031         | " " E-5                | 1  |
|                         | -032         | " " E-5                | 1  |
| <b>Electrical Parts</b> |              |                        |    |
| M125                    | 3-430-001    | Transistor 2SC633      | 1  |
|                         | -008         | " 2SC633               | 1  |
|                         | -113         | " 2SC633               | 8  |
|                         | -333         | " 2SC633               | 4  |
|                         | -338         | " 2SC633               | 2  |
|                         | -331         | " 2SC633               | 2  |
|                         | -332         | " 2SC633               | 2  |
|                         | -333         | " 2SC633               | 2  |
|                         | -334         | " 2SC633               | 2  |
|                         | -335         | " 2SC633               | 2  |
| E1                      | 8-821-742-29 | Rec./P.B. Head         | 1  |
|                         | 8-826-629-23 | Erase Head             | 1  |
|                         | 8-832-624-09 | Motor                  | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | 3-430-512    | " 2SC633               | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | -334         | " 2SC633               | 1  |
|                         | -335         | " 2SC633               | 1  |

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Q'ty

Ref.  
No.

Part No.

Description

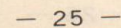
Q'ty

| Ref.<br>No. | Part No. | Description | Q'ty |
|-------------|----------|-------------|------|
|-------------|----------|-------------|------|

|                         |              |                        |    |
|-------------------------|--------------|------------------------|----|
| M121                    | 7-621-770-52 | Screw (+) B 2.6 x 12   | 1  |
|                         | -23          | " (+) B 3 x 6          | 1  |
|                         | -49          | " (+) B 3 x 6          | 2  |
|                         | 3-430-336-40 | " (+) B 3 x 10         | 4  |
|                         | 3-430-770-52 | " (+) B 3 x 14         | 1  |
|                         | -771-09      | " (+) B 3 x 4          | 1  |
|                         | -713-36      | " (-) R 3 x 5          | 1  |
|                         | 7-623-105-02 | Washer 26 (small)      | 5  |
|                         | -107-02      | " 2.66 ( " )           | 4  |
|                         | 0-001-320-12 | " 2.66 ( " )           | 4  |
| M122                    | -108-02      | " 36 (small)           | 8  |
|                         | -332-12      | " 36 (small)           | 31 |
|                         | -110-02      | " 46 (small)           | 5  |
|                         | -336-12      | " 46 (small)           | 1  |
|                         | -112-12      | " 56 ( " )             | 1  |
|                         | -18          | " 56 ( " )             | 2  |
|                         | -205-22      | " 56 ( " )             | 16 |
|                         | -207-22      | " 56 ( " )             | 4  |
|                         | -208-22      | " 56 ( " )             | 18 |
|                         | -210-22      | " 56 ( " )             | 23 |
| M123                    | -308-05      | Star Washer 36 (inner) | 3  |
|                         | -408-05      | " 36 (inner)           | 3  |
|                         | 7-622-108-02 | Nut 36                 | 15 |
|                         | M124         | Lug 36                 | 3  |
|                         | 7-623-508-01 | Retaining Ring E-3     | 3  |
|                         | 7-624-106-01 | " " E-4                | 9  |
|                         | -108-01      | " " E-5                | 4  |
|                         | -109-01      | " " E-5                | 4  |
|                         | -031         | " " E-5                | 1  |
|                         | -032         | " " E-5                | 1  |
| <b>Electrical Parts</b> |              |                        |    |
| M125                    | 3-430-001    | Transistor 2SC633      | 1  |
|                         | -008         | " 2SC633               | 1  |
|                         | -113         | " 2SC633               | 8  |
|                         | -333         | " 2SC633               | 4  |
|                         | -338         | " 2SC633               | 2  |
|                         | -331         | " 2SC633               | 2  |
|                         | -332         | " 2SC633               | 2  |
|                         | -333         | " 2SC633               | 2  |
|                         | -334         | " 2SC633               | 2  |
|                         | -335         | " 2SC633               | 2  |
| E1                      | 8-821-742-29 | Rec./P.B. Head         | 1  |
|                         | 8-826-629-23 | Erase Head             | 1  |
|                         | 8-832-624-09 | Motor                  | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | 3-430-512    | " 2SC633               | 1  |
|                         | -331         | " 2SC633               | 1  |
|                         | -333         | " 2SC633               | 1  |
|                         | -334         | " 2SC633               | 1  |
|                         | -335         | " 2SC633               | 1  |

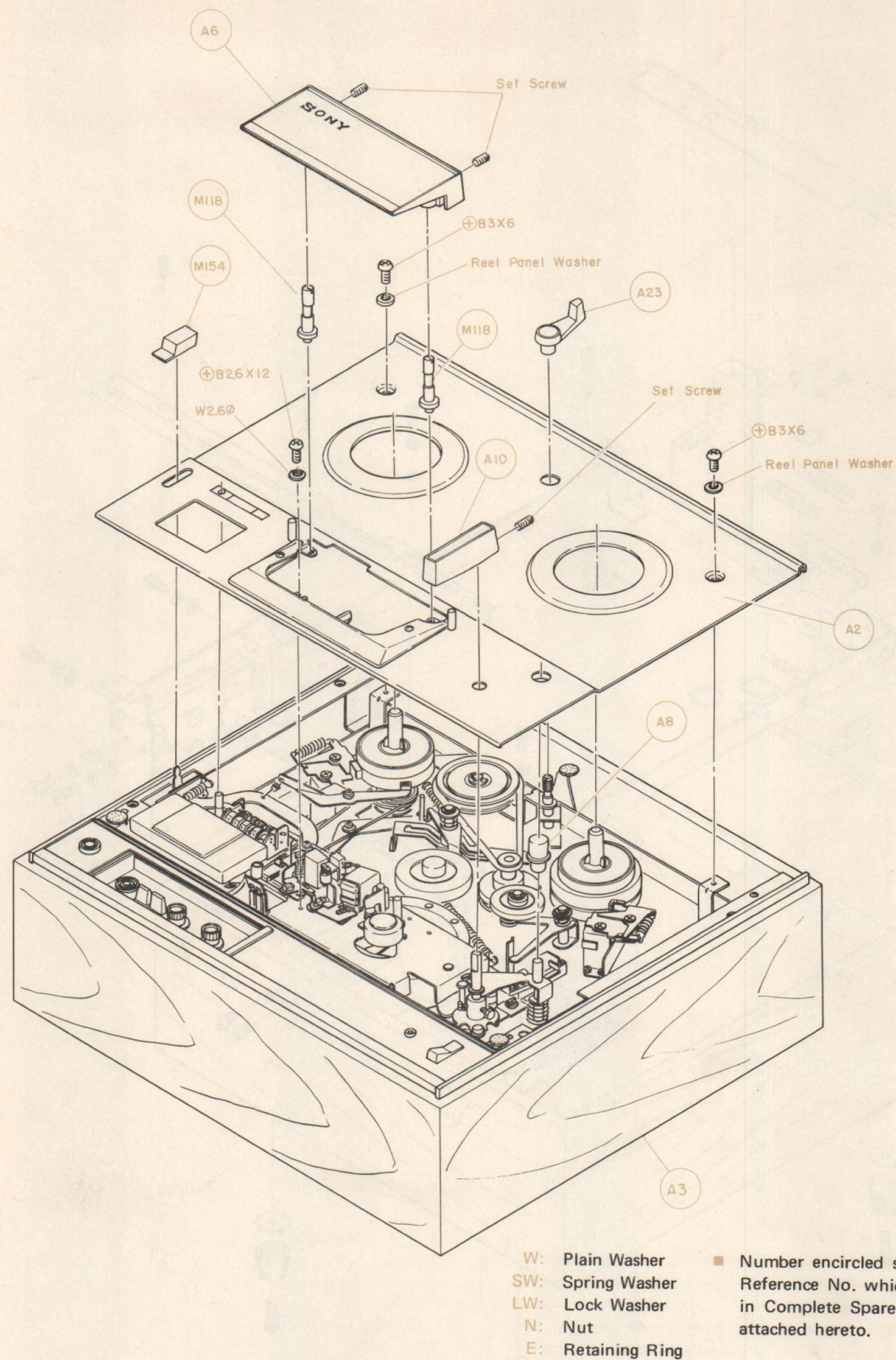
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Exploded Diagram

Reel Panel — Top View



Sony Corporation

SONY®

TC-255

TC Service Bulletin No. 68-0010

|            |                                                                                                |                  |
|------------|------------------------------------------------------------------------------------------------|------------------|
| Serial No. | For U. S. A. 46,001 and after<br>For Other Markets and after<br>Except CANADA 48,501 and after | DATE: June, 1968 |
|------------|------------------------------------------------------------------------------------------------|------------------|

**SUBJECT:** Improvement of rubber for Take-up Idler.

**REASON:** To prevent shedding of idler rubber surface.

**DESCRIPTION:**

| Part Number<br>of<br>Take-up Idler | New Type     | Old Type                               |
|------------------------------------|--------------|----------------------------------------|
|                                    | X-34300-25-5 | X-34300-25 <sup>-3</sup> <sub>-4</sub> |
| Mark                               |              |                                        |

**PRECAUTIONS:**

1. The idler must always be kept clean. If oil or grease is found to have come in contact with the idler, wipe it off by using clean cloth soaked with ALCOHOL or ACETONE.
2. **Under no circumstances should CARBON TETRACHLORIDE or BENZINE be used for cleaning the idler.**
3. During long-duration storage, powder-like substance may be produced more or less on the surface of rubber part of the idler. Such a substance, however, has no effect on the quality or performance of the idler.

Sony Corporation