

# PS-LX5/LX5C



PS-LX5:

*US Model  
Canadian Model  
AEP Model  
UK Model  
E Model*

PS-LX5C:

*US Model*

## STEREO TURNTABLE SYSTEM

### SPECIFICATIONS

#### Turntable

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Platter        | 31 cm (12 <sup>1</sup> / <sub>4</sub> in.), aluminum-alloy diecast |
| Motor          | Linear torque BSL (brushless and slotless) motor                   |
| Drive system   | Direct drive                                                       |
| Control system | Quartz lock control, magnedisc servo control system                |

#### SAFETY-RELATED COMPONENT WARNING!!

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

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| Speed                    | 33 <sup>1</sup> / <sub>3</sub> rpm, 45 rpm                                          |
| Starting characteristics | Comes to nominal speed within a 1/2 revolution (33 <sup>1</sup> / <sub>3</sub> rpm) |
| Wow and flutter          | 0.02% (WRMS)* 0.025% (WRMS)<br>±0.04% (DIN)                                         |
| Signal-to-noise ratio    | 78 dB (DIN-B)                                                                       |
| Load characteristics     | 0% up to 100 g stylus force (at lead-in groove of a record)                         |
| Speed deviation          | Within ±0.003%                                                                      |
| Automatic system         | Lead-in, return, reject, repeat, record size selection                              |

#### Tonearm

|                                                      |                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type                                                 | Statically balanced                                                               |
| Pivot-to-stylus length                               | 216.5 mm (8 <sup>5</sup> / <sub>8</sub> in.)                                      |
| Overhang                                             | 16.5 mm (2 <sup>1</sup> / <sub>32</sub> in.)                                      |
| Stylus force adjustment range                        | 0 – 3 g                                                                           |
| Cartridge shell weight                               | PS-LX5 (US, Canadian model): 5.2 g (SH-151)<br>PS-LX5C (US model): 4.7 g (SH-94)  |
| Cartridge weight range (including a cartridge shell) | 7.4–11.7 g<br>10.9–15.2 g [with extra weight for the PS-LX5 (US, Canadian model)] |

— Continued on page 2 —



**SONY**  
**SERVICE MANUAL**

**Cartridge XL-200** [supplied only with PS-LX5 (AEP, UK, E model)]

|                    |                                           |
|--------------------|-------------------------------------------|
| Type               | Moving magnet type                        |
| Frequency response | 10 Hz to 30 kHz                           |
| Channel separation | 25 dB at 1 kHz                            |
| Output voltage     | 3 mV at 1 kHz, 5 cm/sec.                  |
| Load impedance     | 50 to 100 kilohms                         |
| Tracking force     | 1 to 2 g (1.5 g recommended)              |
| Stylus             | Sony ND-200G<br>(conical 0.6 mil diamond) |
| Weight             | 8.2 g                                     |

**Cartridge VL-5** [supplied only with the PS-LX5C (US model)]

|                    |                                         |
|--------------------|-----------------------------------------|
| Type               | Moving magnet type                      |
| Frequency response | 10 Hz to 20 kHz                         |
| Channel separation | 20 dB at 1 kHz                          |
| Output voltage     | 3.5 mV at 1 kHz, 5 cm/sec., 45°         |
| Load impedance     | 47 to 100 kilohms                       |
| Tracking force     | 1.5 to 2.5 g (2 g recommended)          |
| Stylus             | Sony ND-5G<br>(conical 0.6 mil diamond) |
| Weight             | 5.0 g                                   |

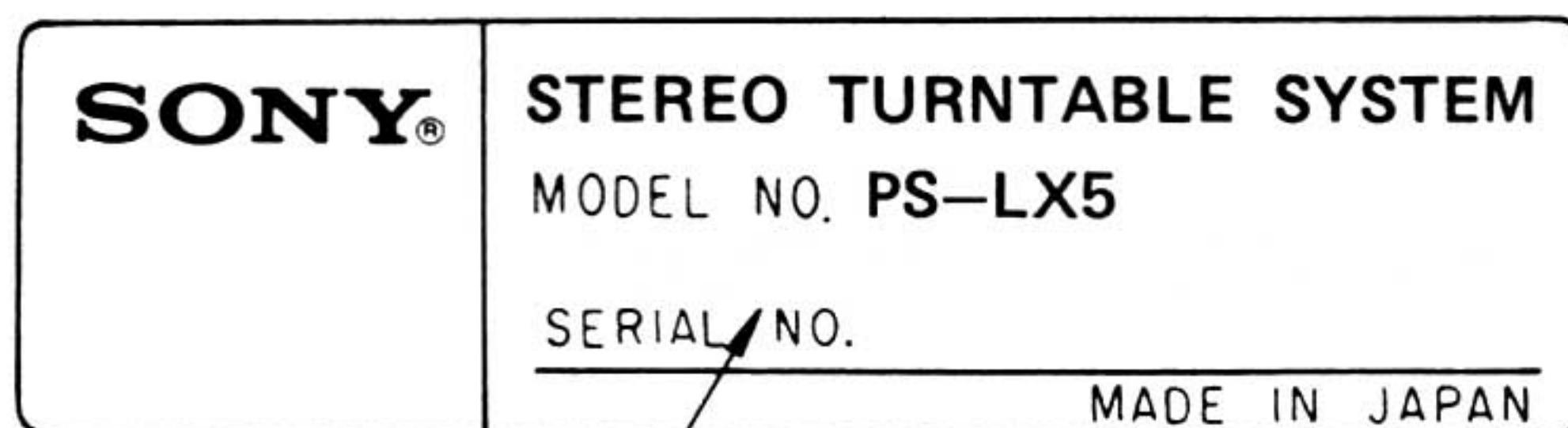
**General**

|                    |                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power requirements | AEP model: 220 V ac, 50/60Hz<br>UK model: 240 V ac, 50/60Hz<br>E model: 110–120 or 220–240 V ac adjustable<br>50/60 Hz<br>US, Canadian model: 120 V ac, 60 Hz |
| Power consumption  | 9 W                                                                                                                                                           |
| Dimensions         | Approx. 430 × 105 × 355 mm (w/h/d)<br>(17 × 4 <sup>1</sup> / <sub>4</sub> × 14 in.)<br>including projecting parts and controls                                |
| Weight             | Approx. 6.3 kg (13 lbs 14 oz), net<br>Approx. 7.6 kg (16 lbs 12 oz), in shipping<br>carton                                                                    |

\* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pick-up head.

**MODEL IDENTIFICATION**

— Specification Label —



|                     |                                     |
|---------------------|-------------------------------------|
| US, Canadian model: | AC 120 V 60 Hz 9W                   |
| AEP model:          | AC 220V~50/60 Hz 9W                 |
| E model:            | AC 110–120 V, 220–240 V~50/60 Hz 9W |
| UK model:           | AC 240 V~50/60 Hz 9W                |

## Handling Precautions for MOS ICs

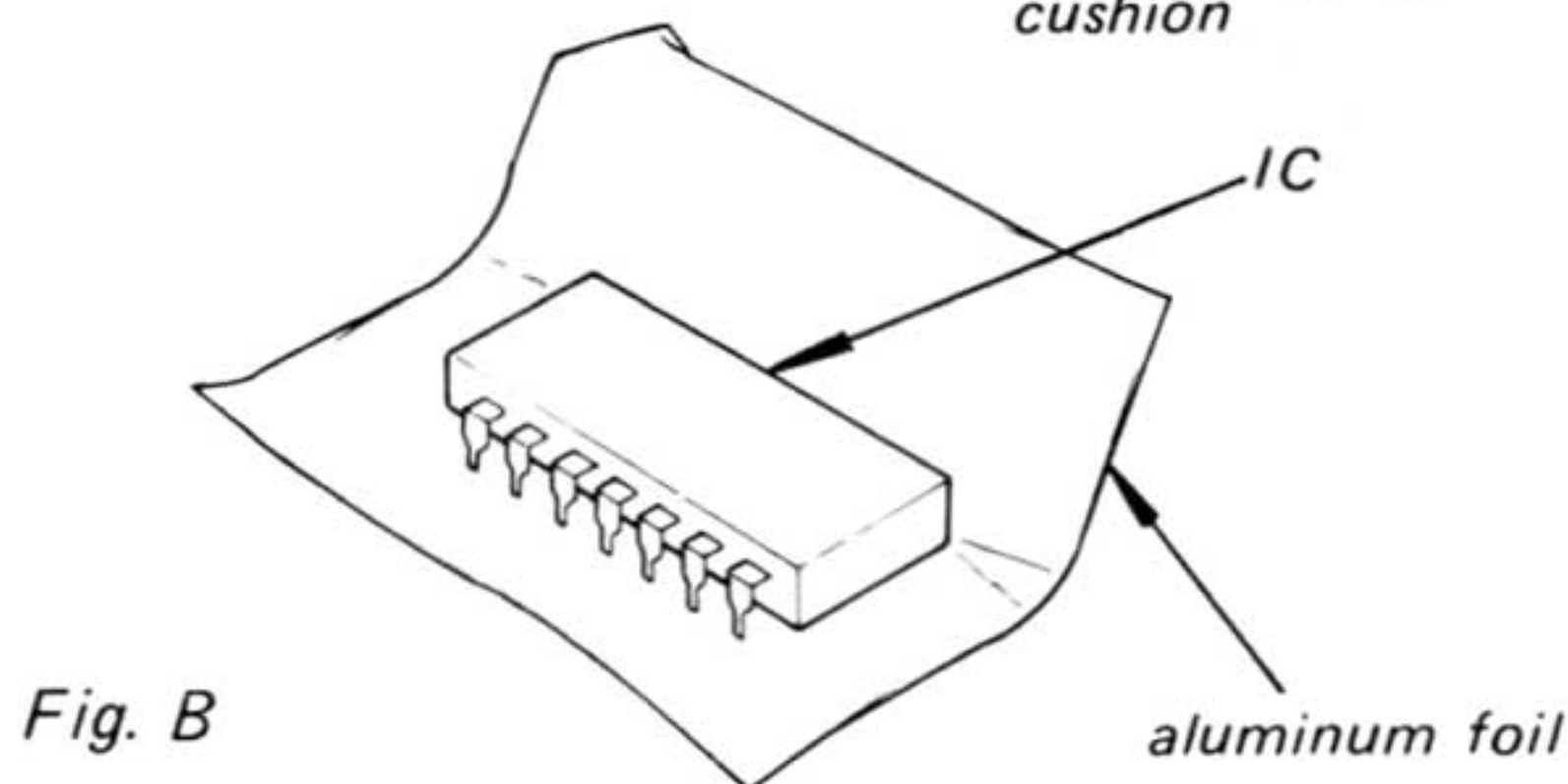
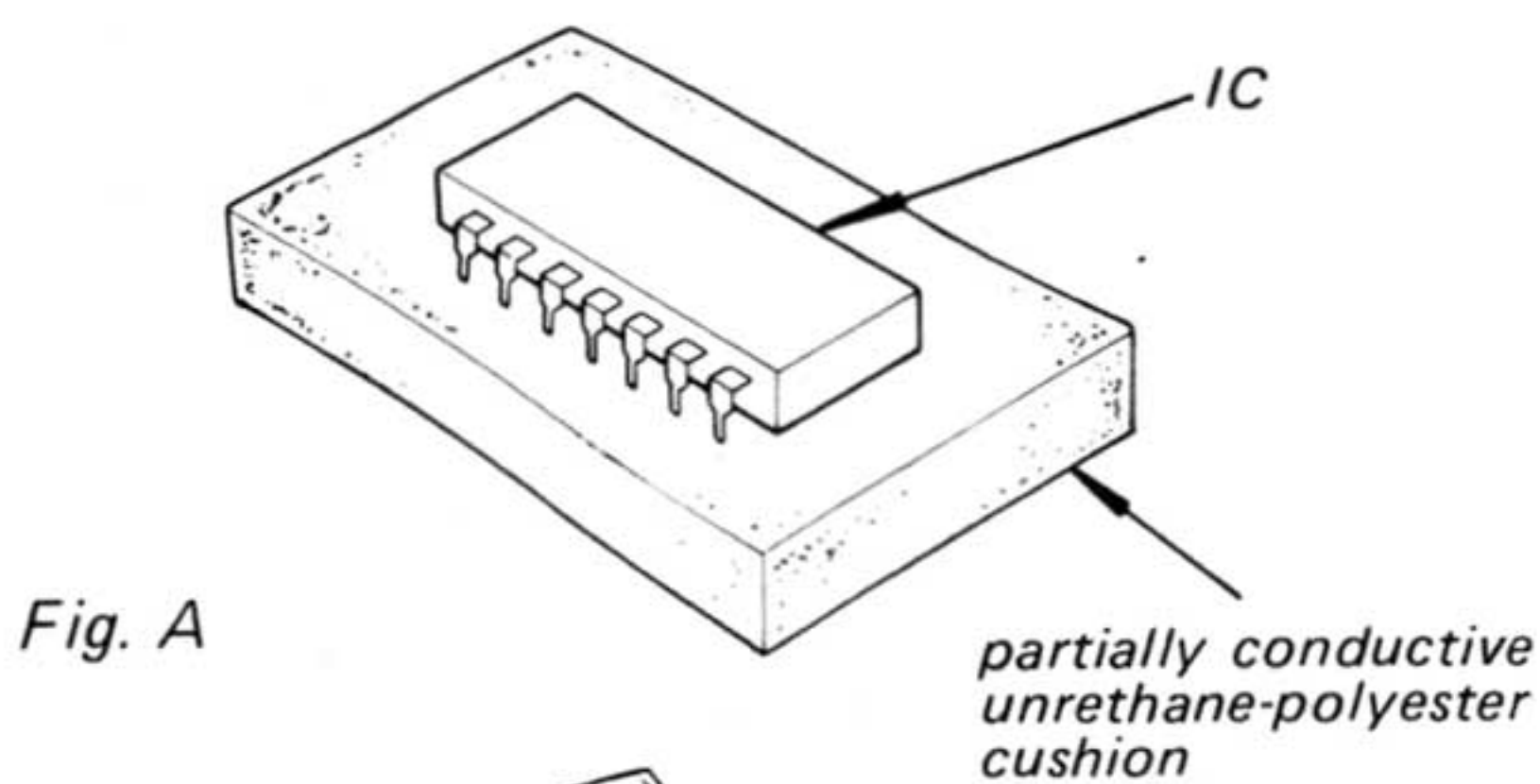
Generally, the insulation resistance of the oxide layer in MOS IC structures is very high, and the oxide layer is very thin. Because of this, it is possible that the static voltages usually present on clothes and the human body will be enough to generate a potential difference across the insulator, high enough to cause a breakdown of the insulating layer.

The following precautions should be taken while handling these ICs.

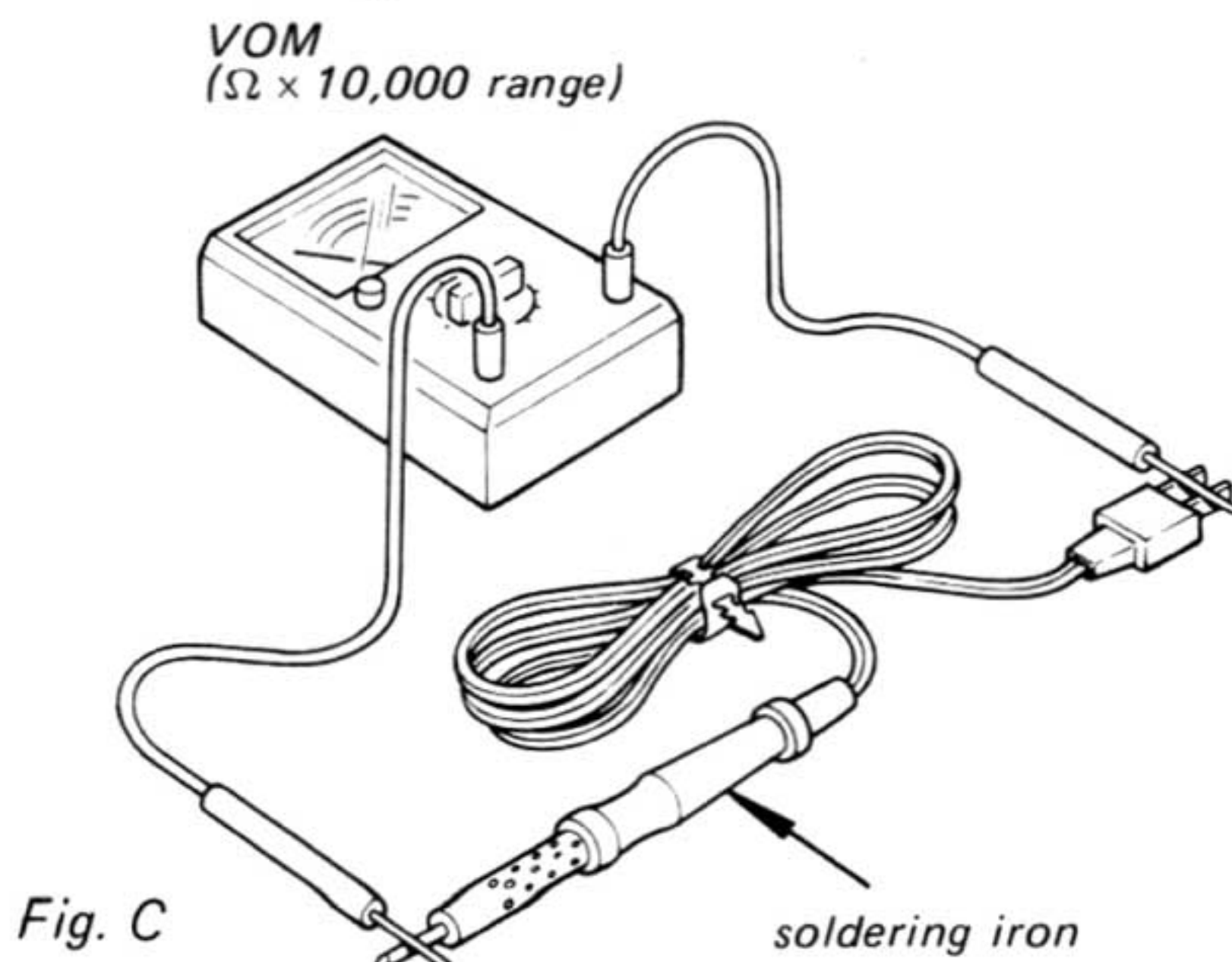
(Particular care should be taken under conditions of low humidity.)

### Precautions in Replacing MOS ICs

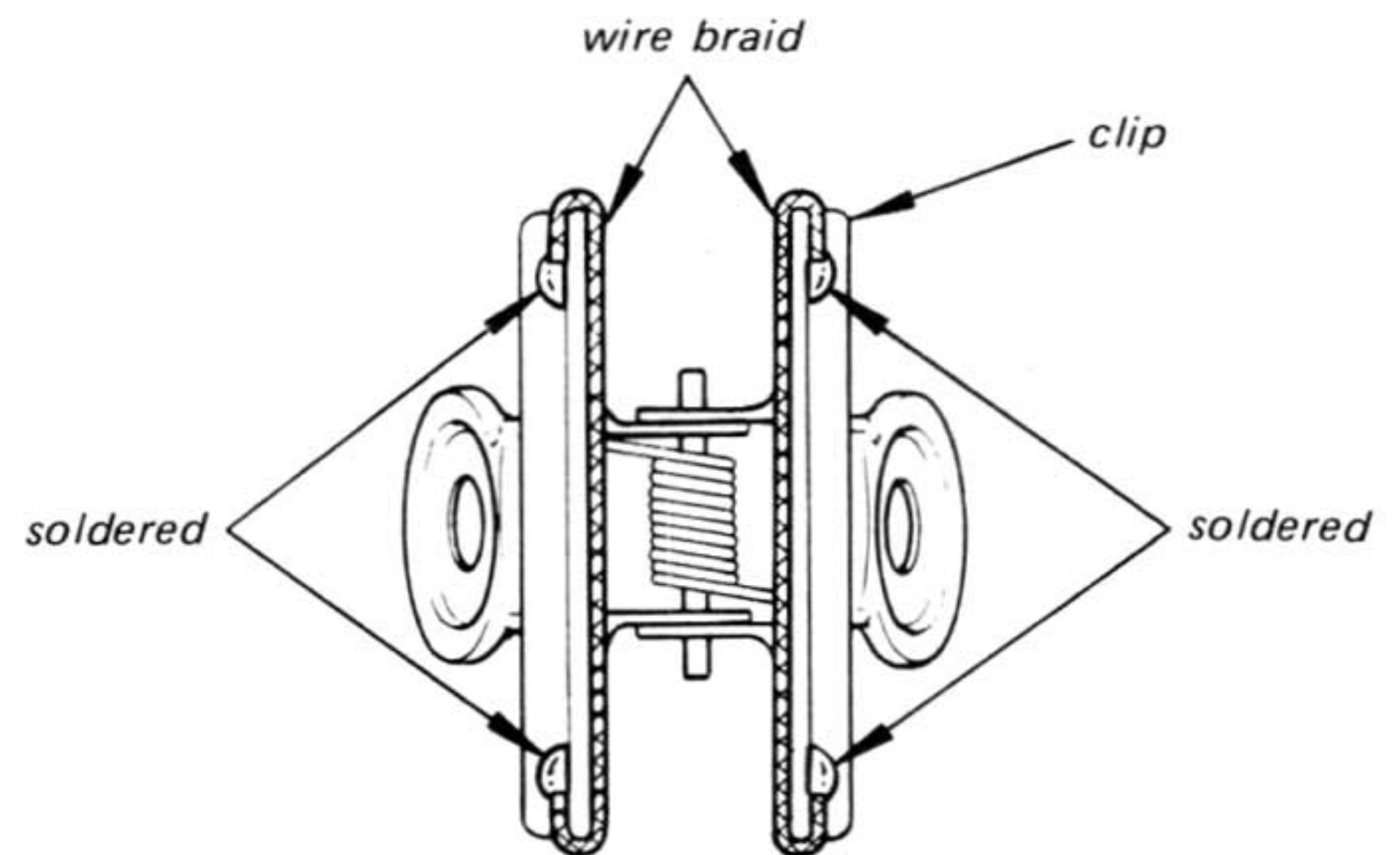
1. Store new ICs by inserting them into a urethane-polyester cushion (which is somewhat conductive), or wrapping it in aluminum foil, so that all the pins are at the same potential. (The ICs should be stored in that manner until mounted on the circuit board.)



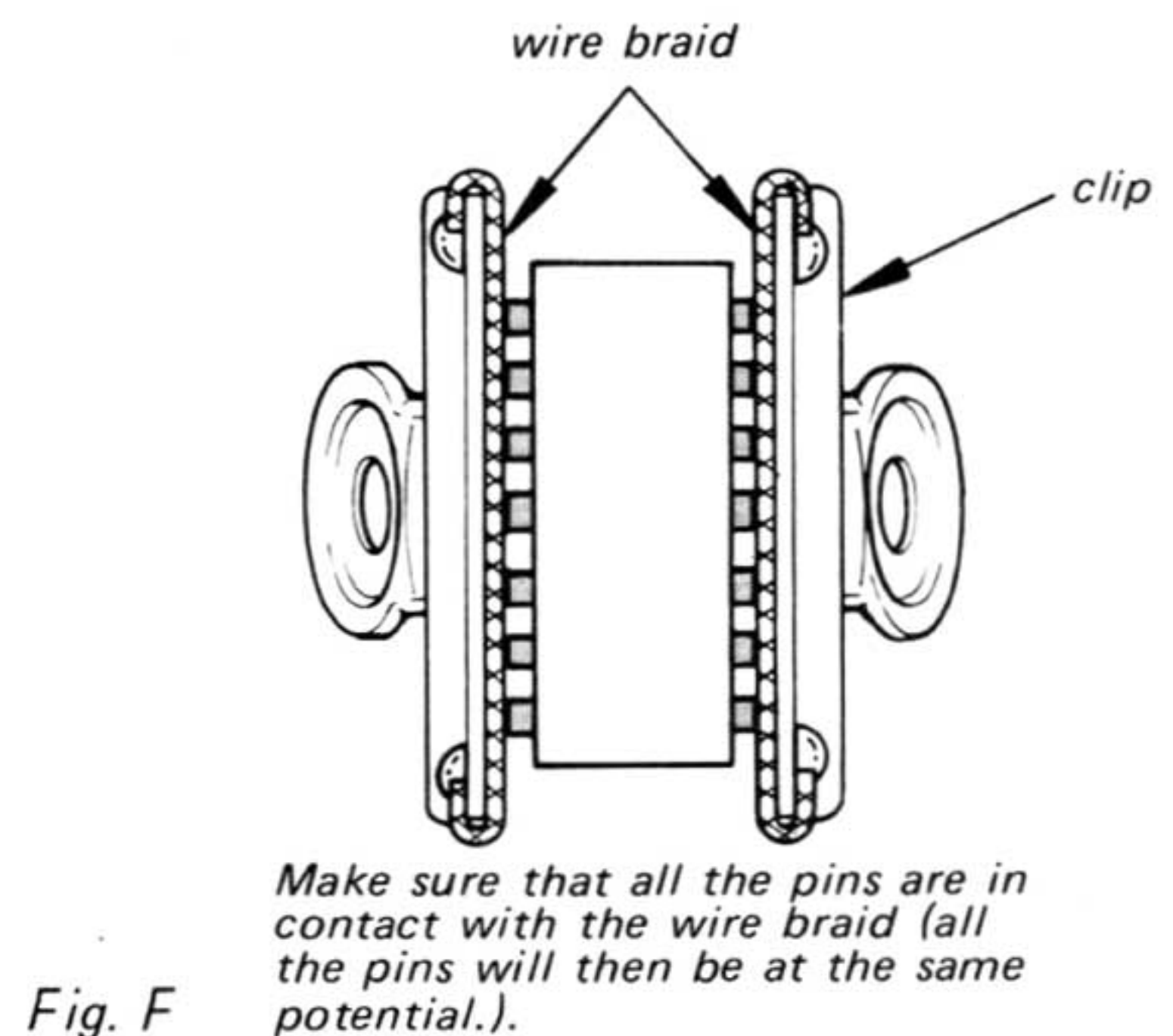
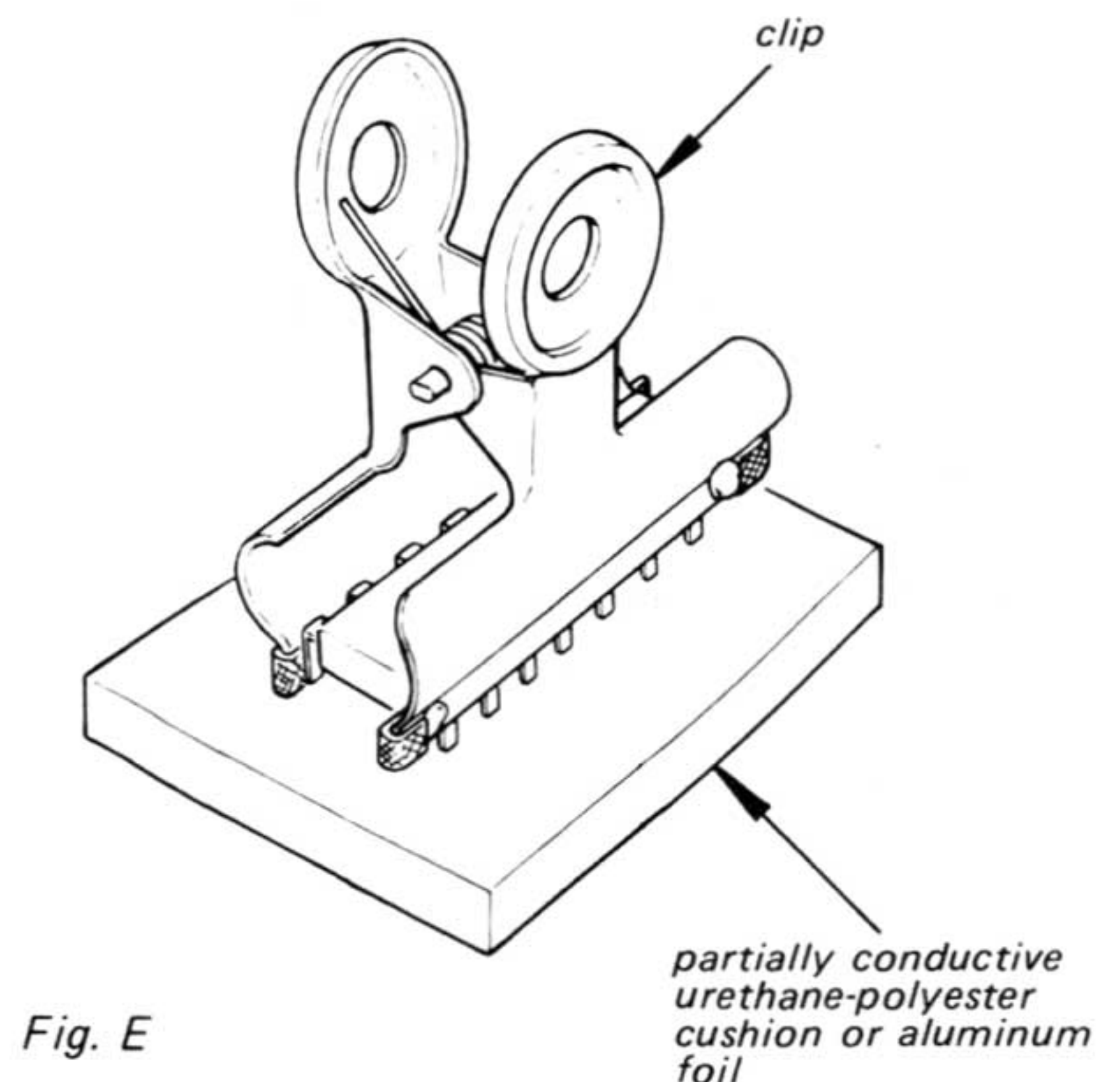
2. Check the soldering iron for possible power-line leakage current. Make sure that there is no leakage path by connecting an ohmmeter to the tip of the soldering iron and the plug as shown in Fig. C. If there is a leakage path, use some other soldering iron.



3. Equalize any potential difference between the clothes, the tools in use, the work bench, the set being worked on, and the packaged IC by touching them all in succession with the hands or a conductive wire or tool.
4. The following are effective methods for handling ICs that remove the potential difference across the oxide layer.
  - Use a paper clip modified by soldering in a wire braid insert.



Make sure that there is no solder on the inside.



- Take a short length of fine bare wire and wind it around the IC so that it shorts all the pins of the IC, while it is still in the urethane-polyester cushion or aluminum foil. This ensures that all the pins are at the same potential.

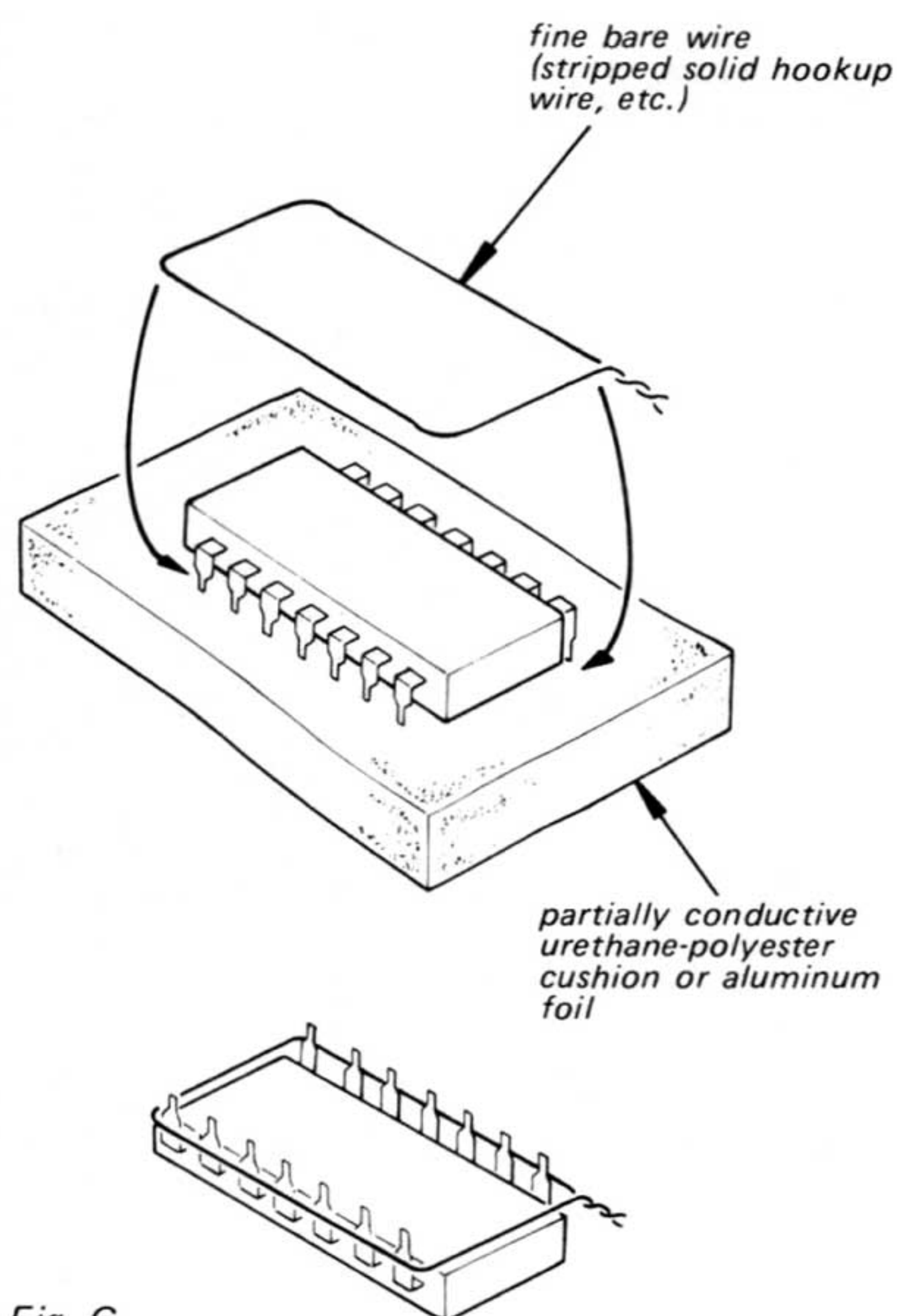


Fig. G

- When it is necessary to handle the IC with the fingers, do not touch any pin, and hold the IC at the ends of its plastic-package case as shown in Fig. H.

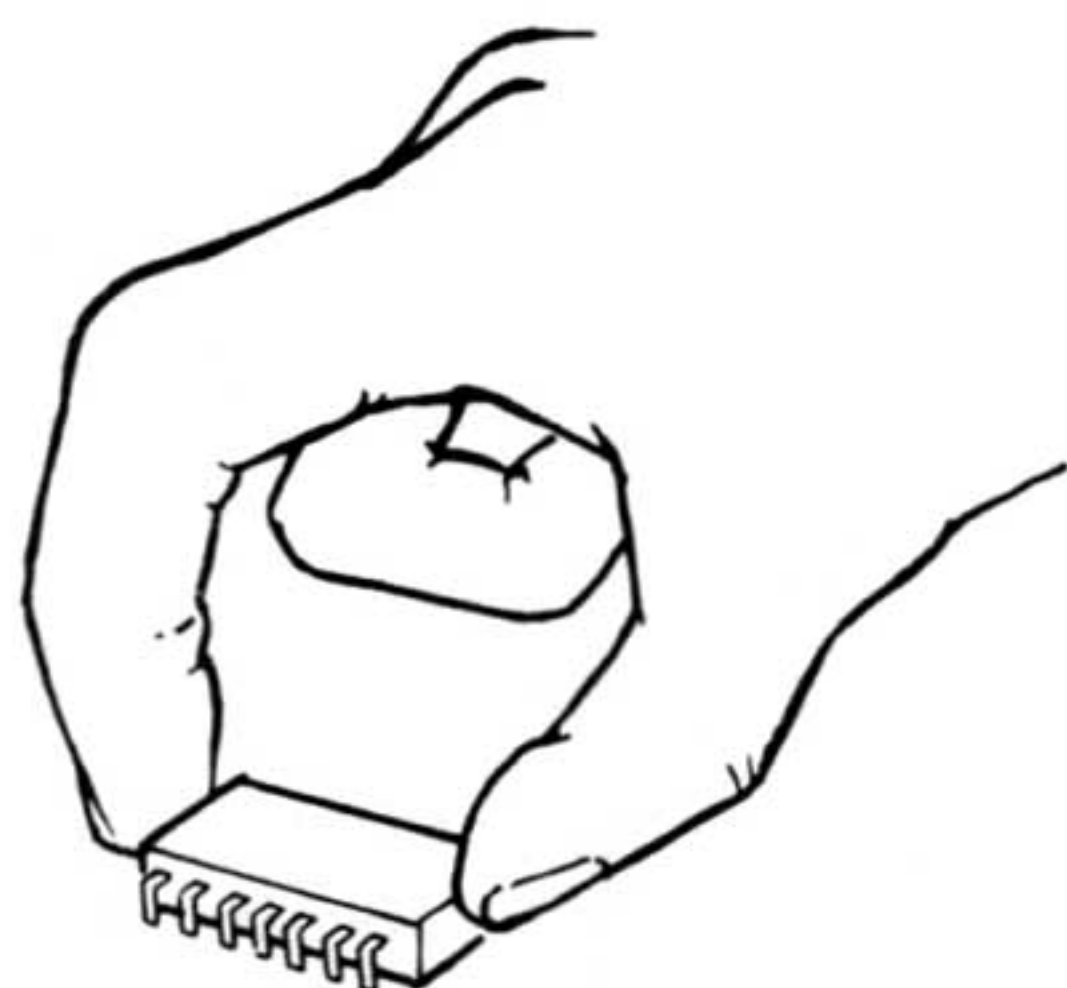


Fig. H

## 5. Method of Mounting

Insert the IC while holding it with the modified clip, and solder all the pins with the clip still shorting the pins. (Similarly, solder all the pins while the bare shorting wire is still wound around them.). Remove the clip or the bare shorting wire only after all the pins have been soldered.

## Precaution while Checking C-MOS ICs

The C-MOS ICs (Complementary MOS) are MOS ICs that have their output sections made up of N-channel and P-channel push-pull stages to increase their speed of operation. If the output terminal of these ICs comes into contact with B+ or B- voltage, then the FET which is ON at that time will either become shorted or open.

This is valid for all the output sections that are connected together by the interconnections. Even the circuits that are physically separated (and not on the same board) can be destroyed simultaneously.

### Example:

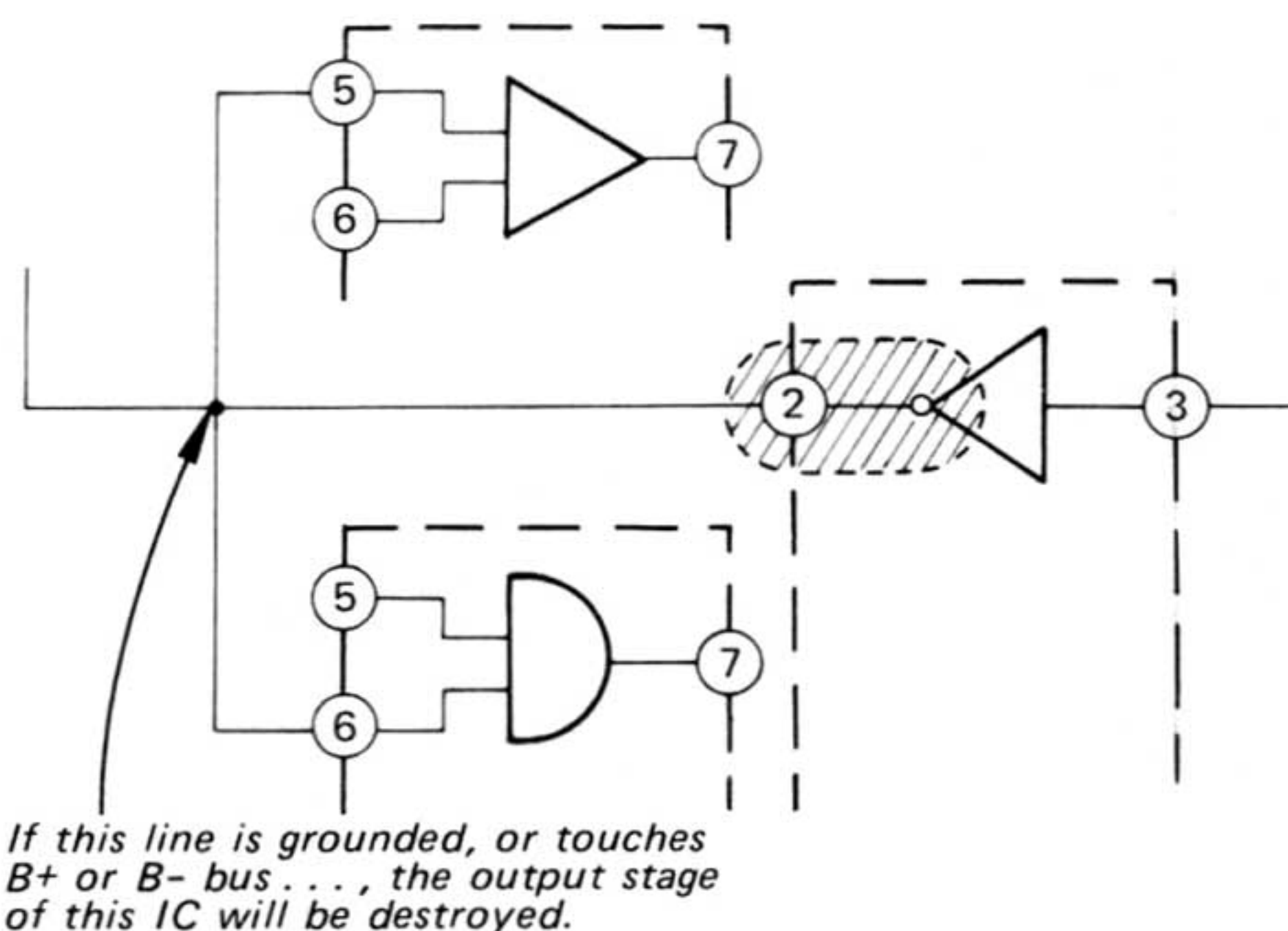
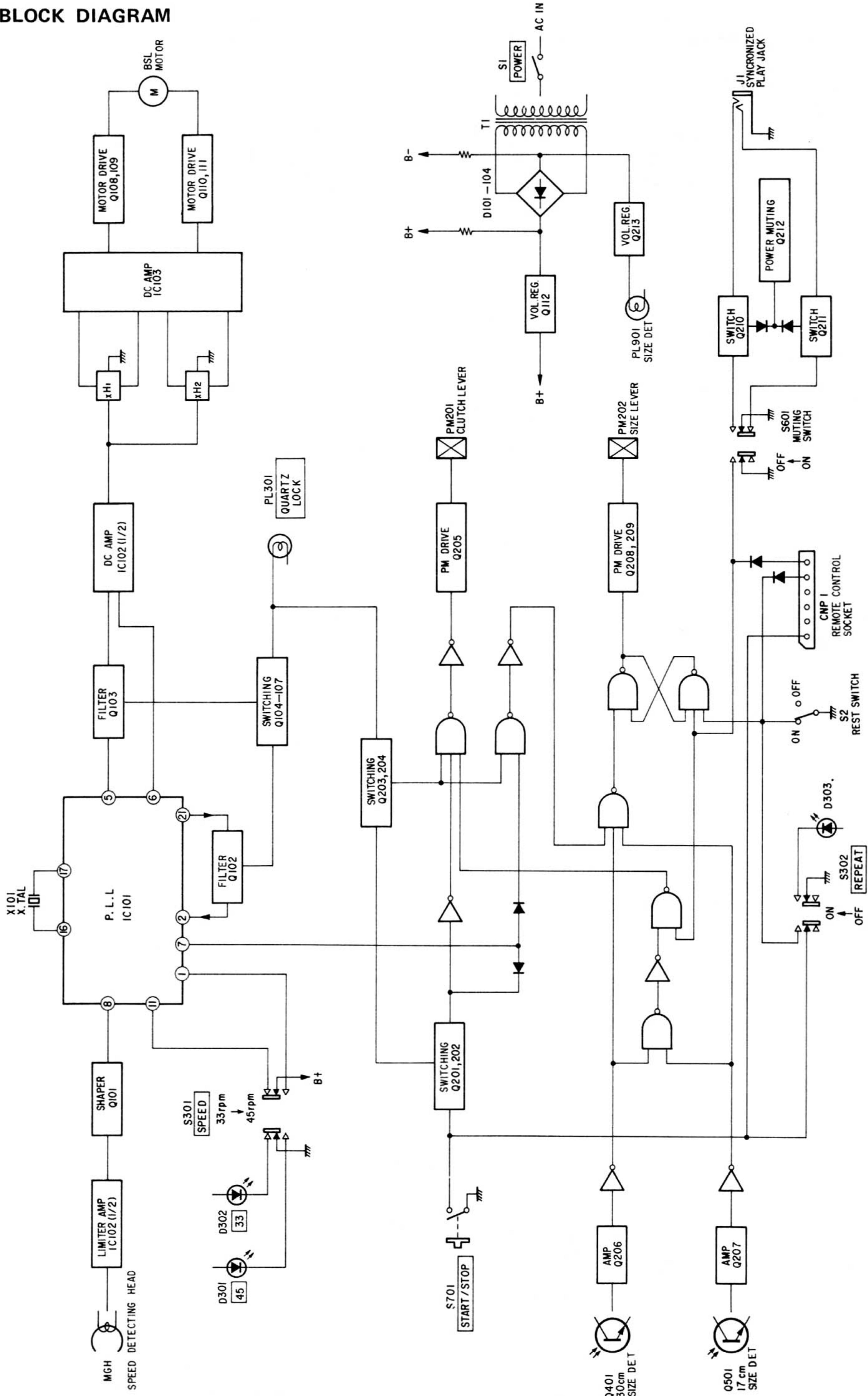


Fig. I

SECTION 1  
OUTLINE

1-1. BLOCK DIAGRAM



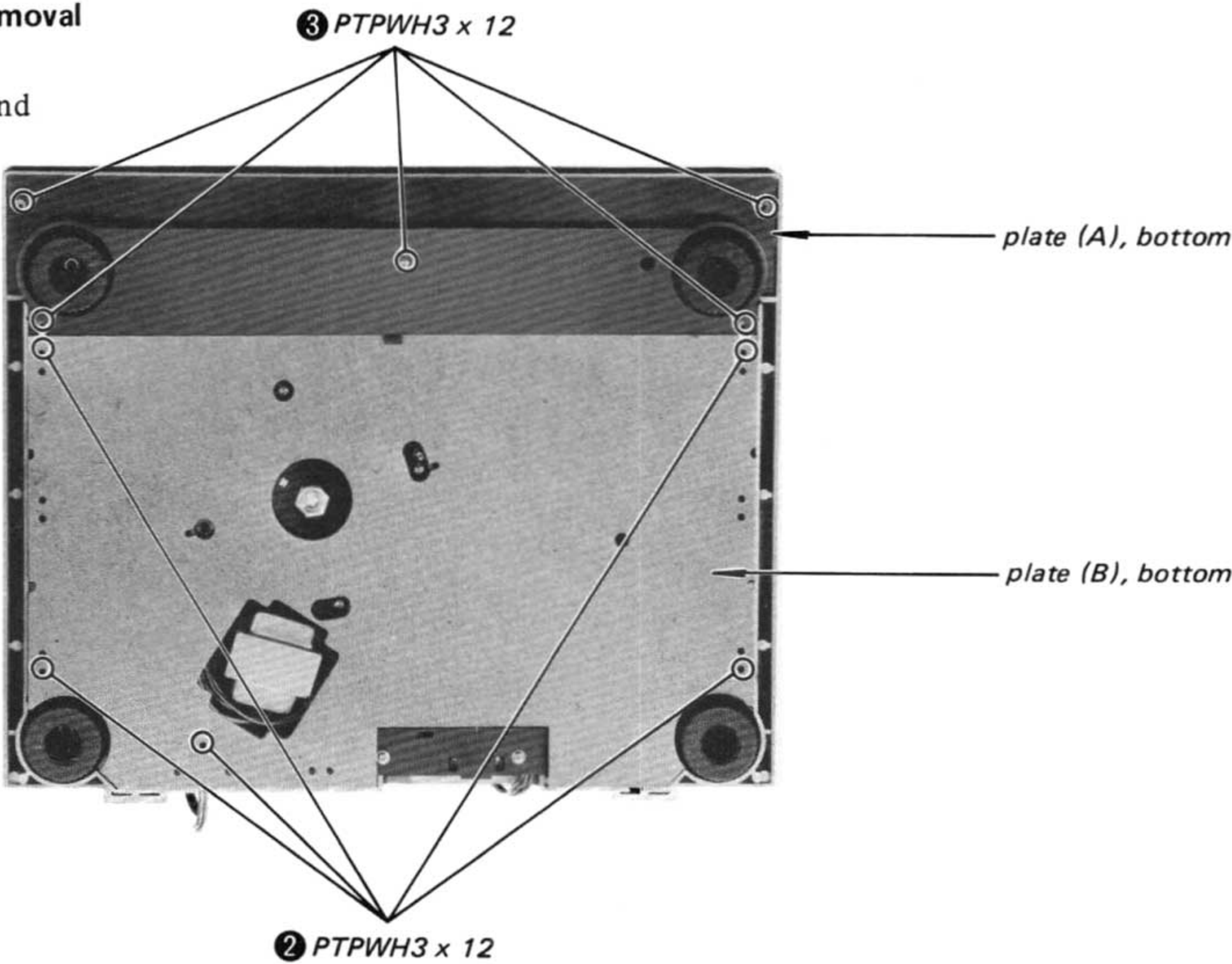
# SECTION 2

## DISASSEMBLY AND ASSEMBLY

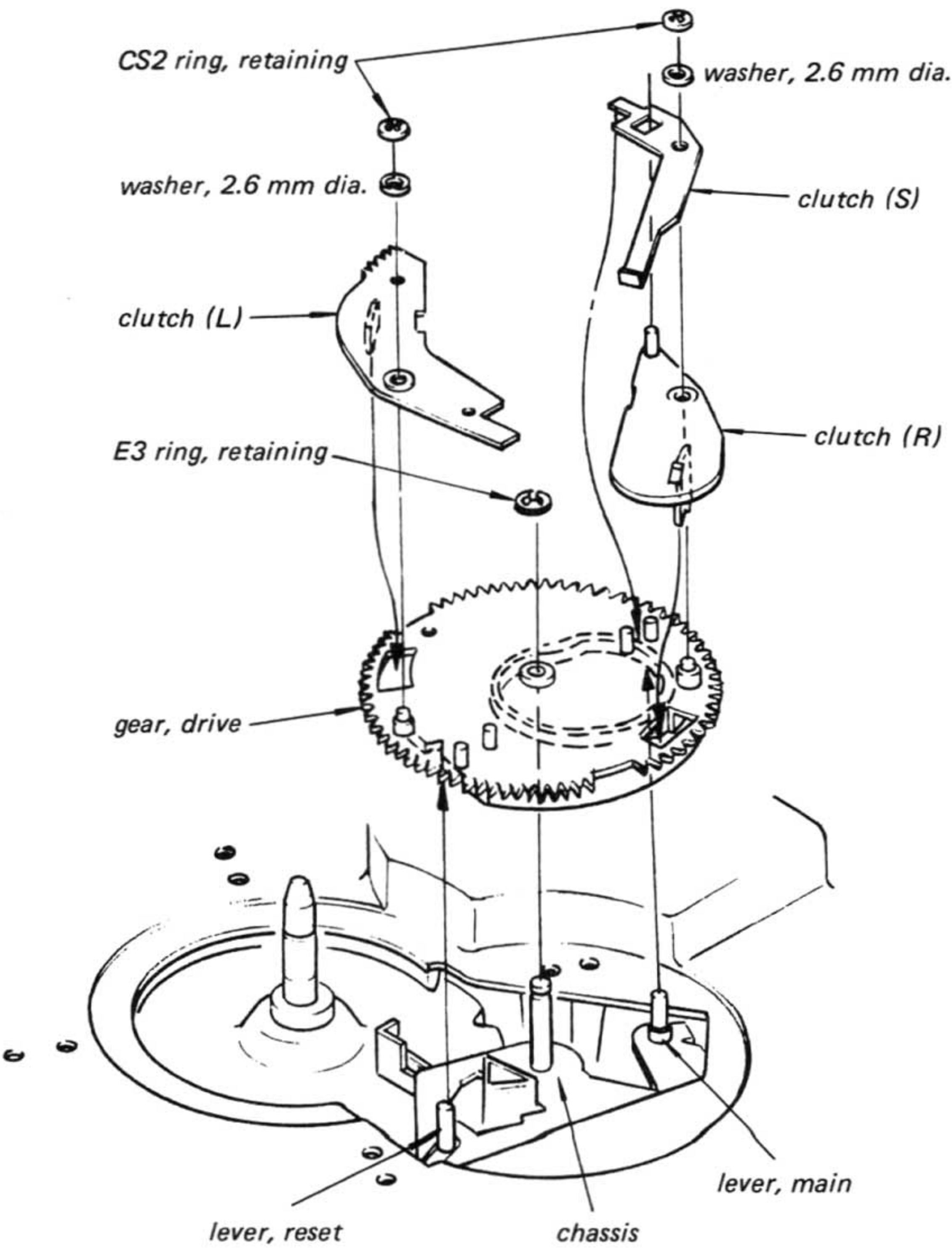
**Note:** Follow the disassembly procedure in the numerical order given.

### Bottom Plate (A) / (B) Removal

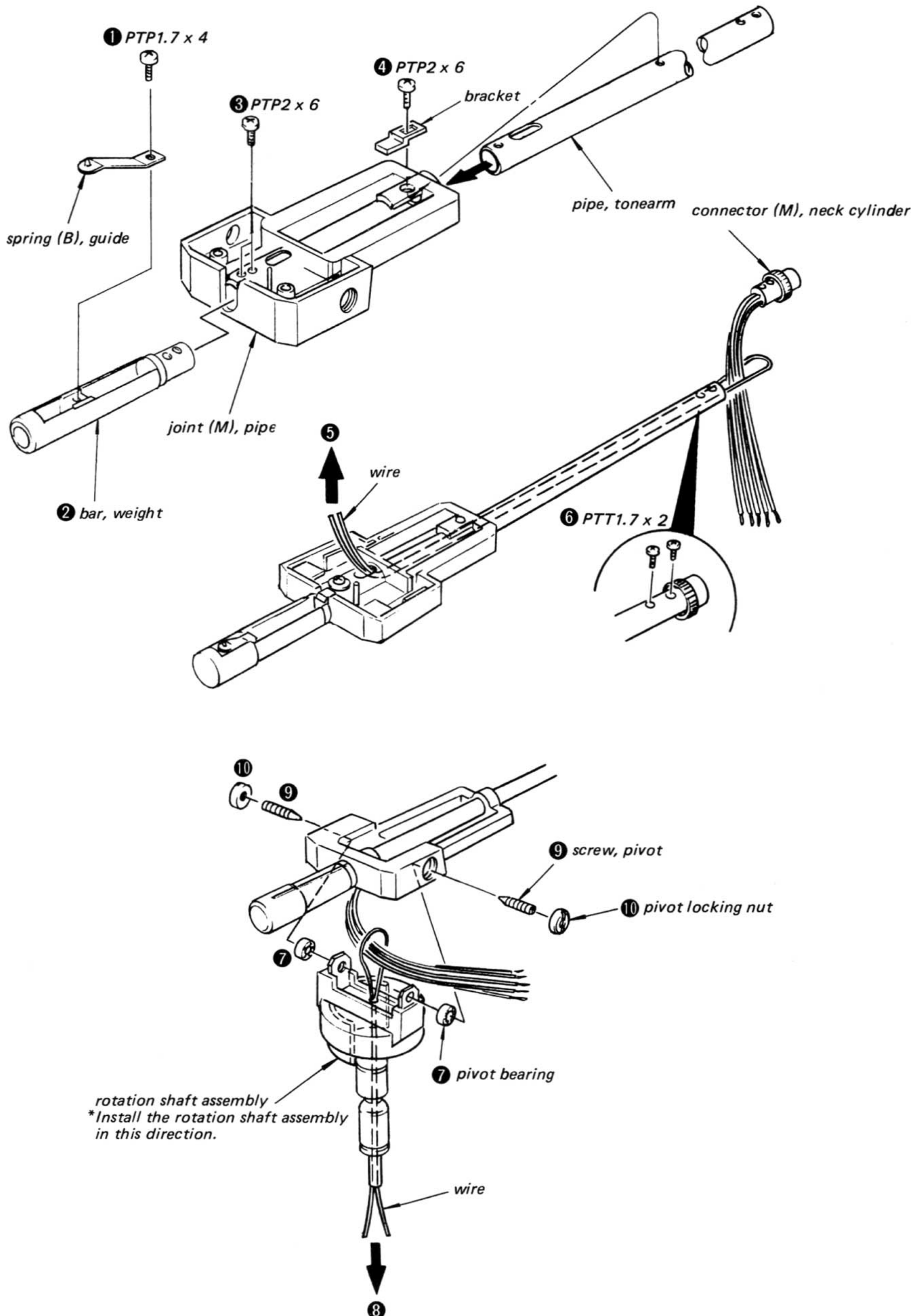
- ❶ Remove the turntable and the turntable sheet.



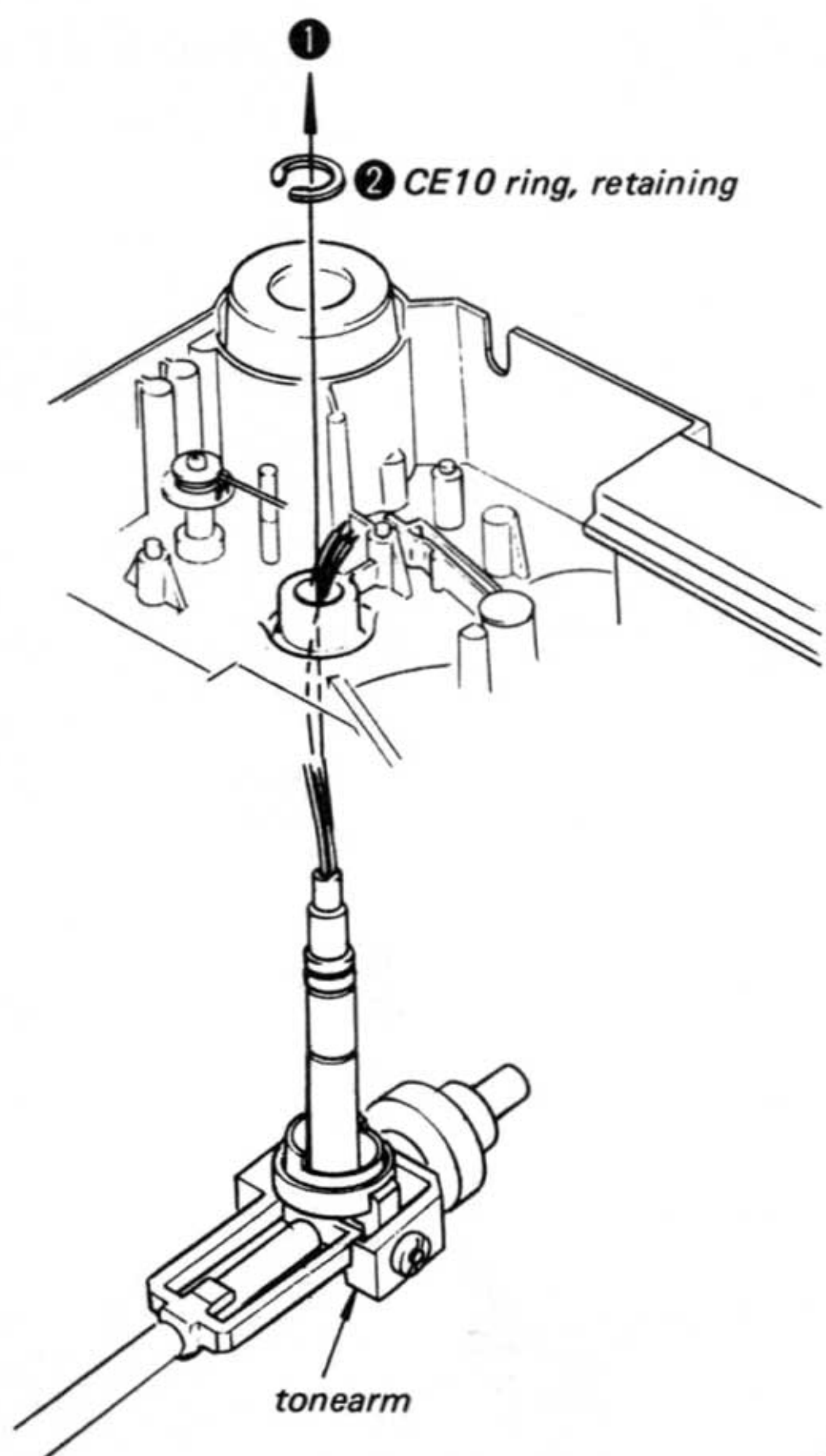
### Drive Gear Assembly



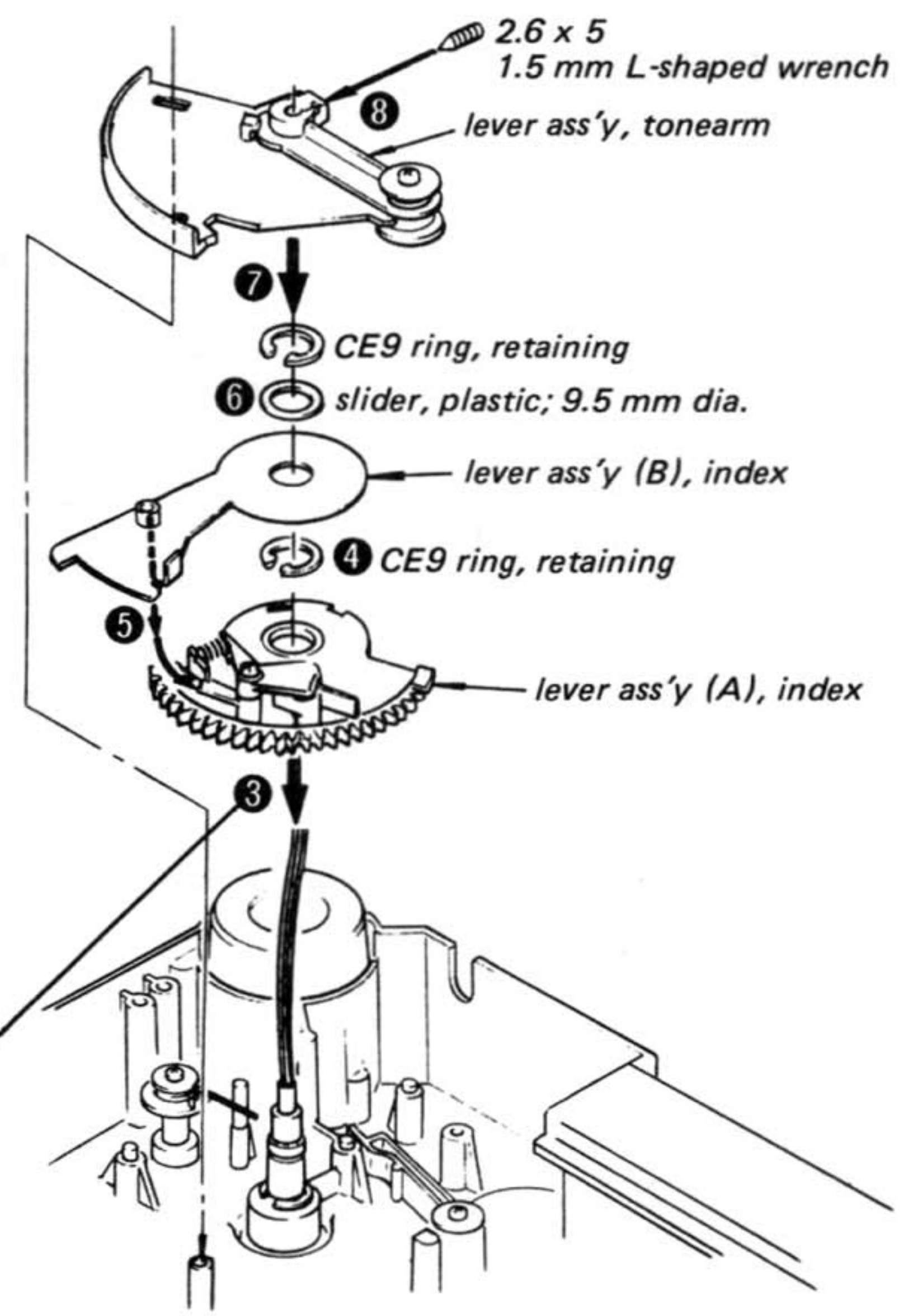
## Tonearm Assembly (1)



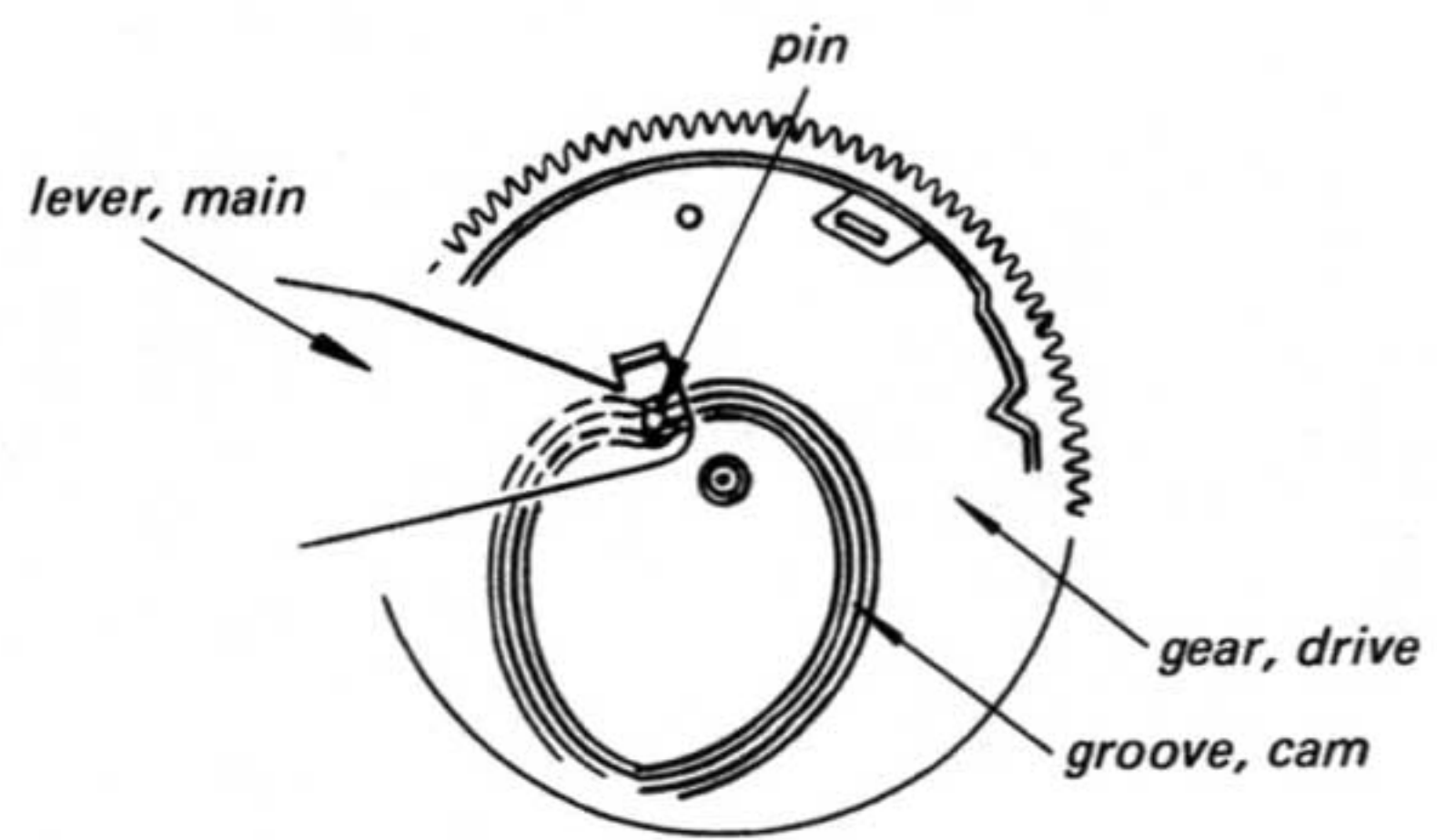
# Tonearm Assembly (2)



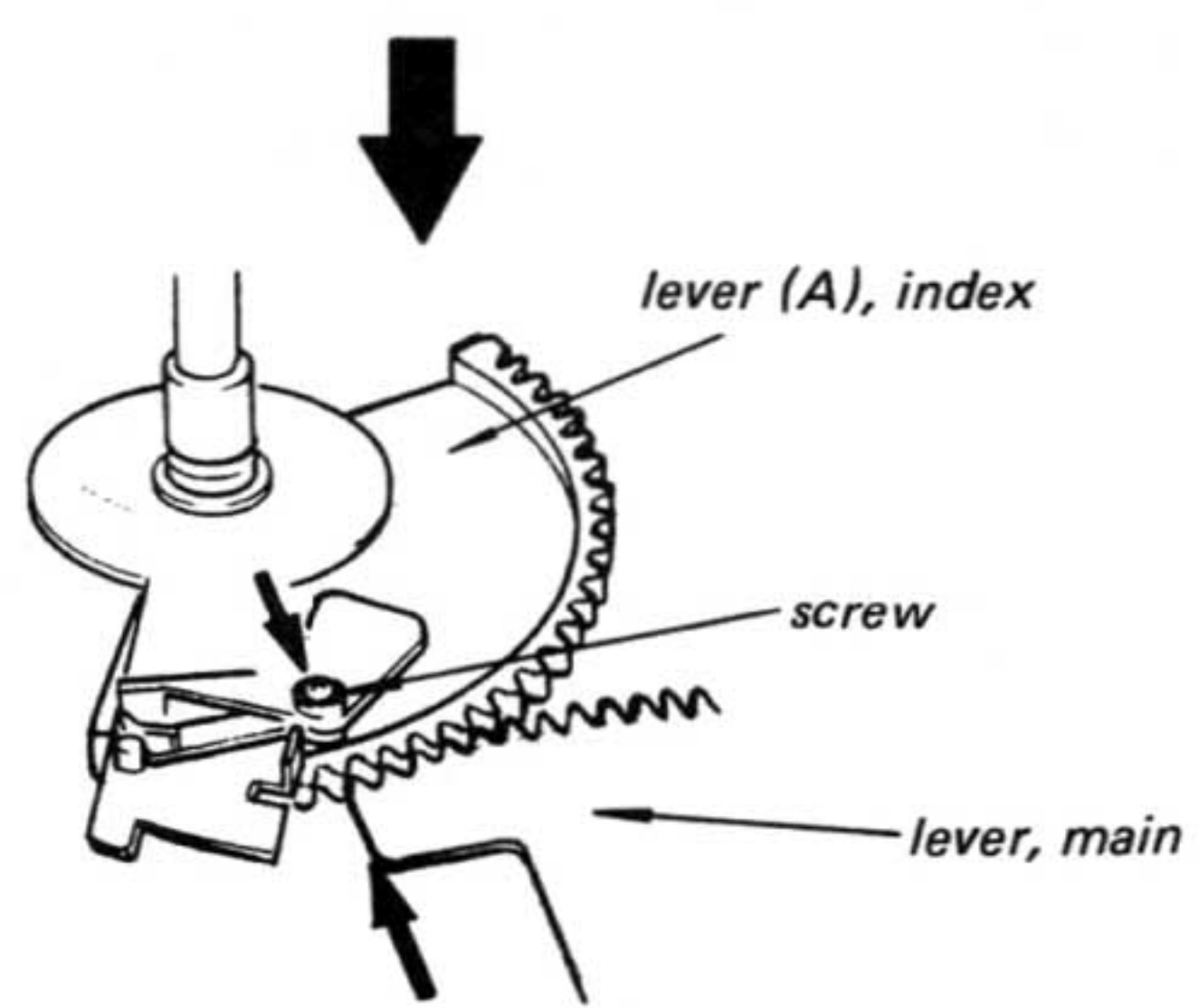
## Arm Lever Ass'y Installation



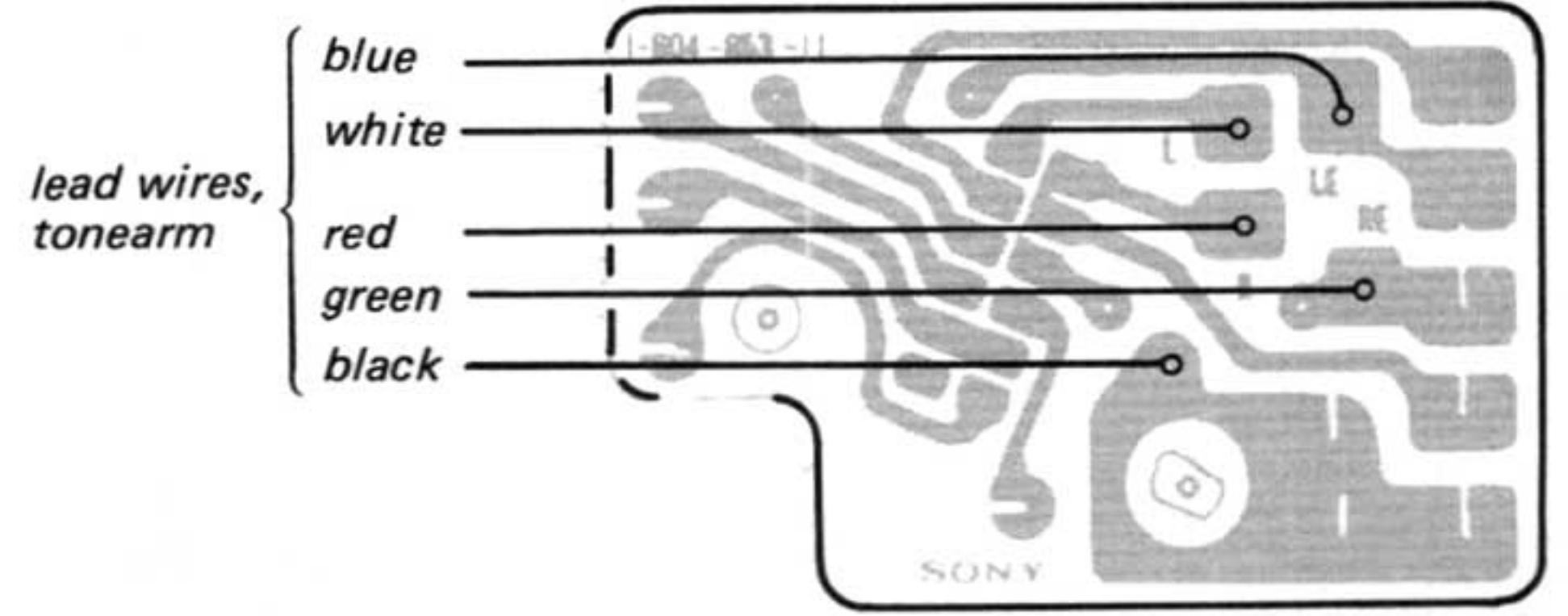
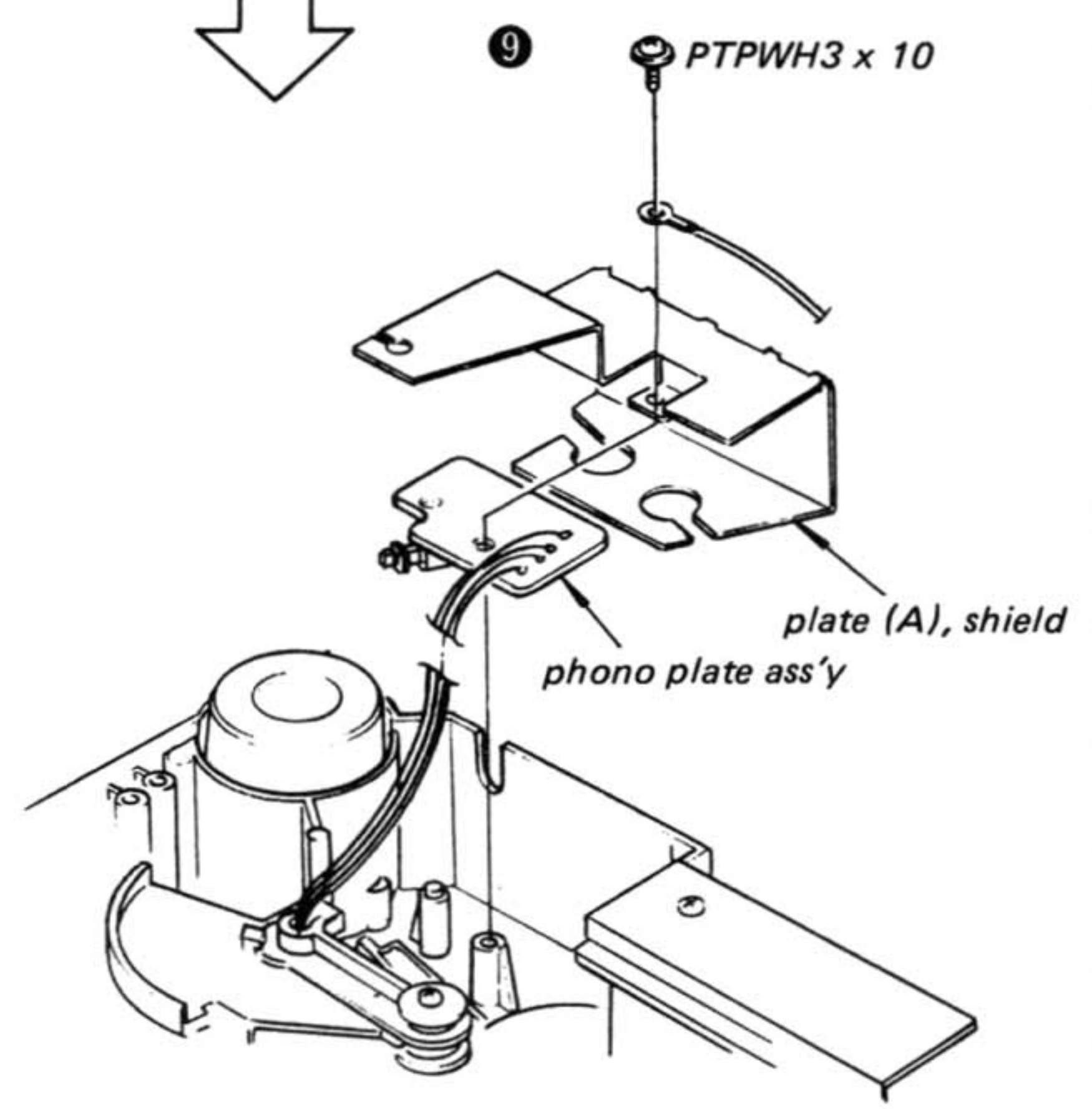
### 3 Position of parts of index lever (A) assembly



Rotate the drive gear so that pin of main lever is positioned as illustrated above.



Put the center of the screw of the index lever (A) on the edge of the gear of main lever.

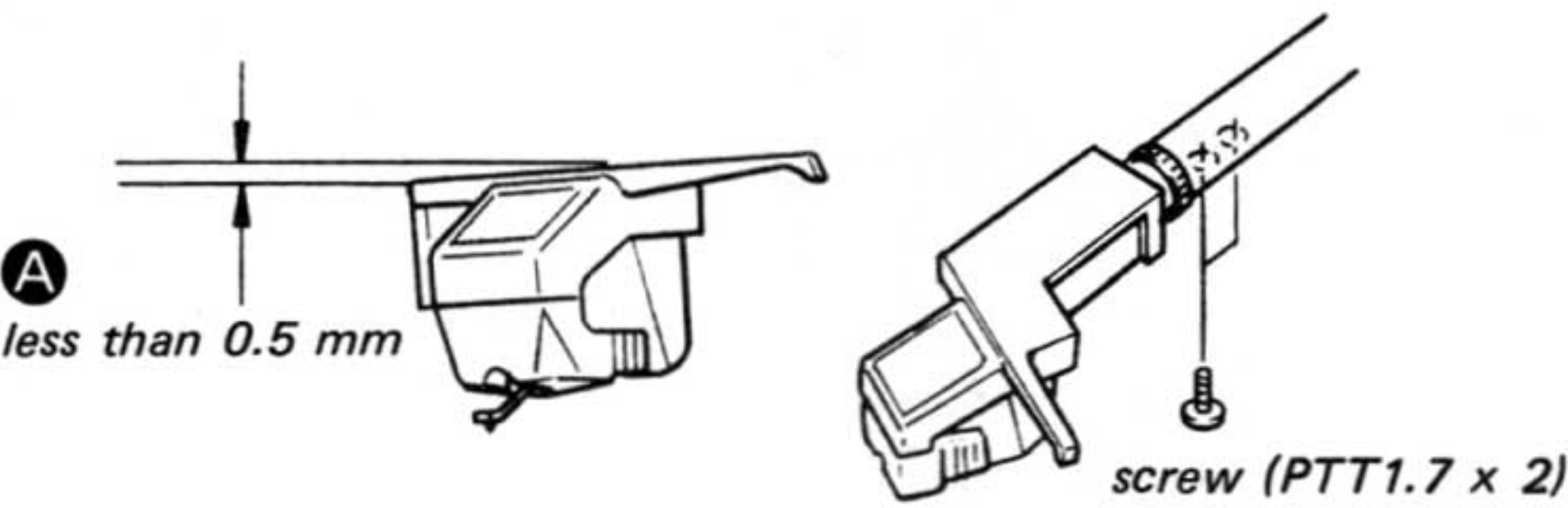


# SECTION 3

## ADJUSTMENTS

### Shell's Horizontal Balance Adjustment

Loosen the screw on the neck cylinder so that the clearance **A** is less than 0.5 mm.



### Stylus Drop-point Adjustment

1. Remove the rubber cap.
2. Make sure that the stylus drops on the specified point of the test record.  
test record: YFSC-16

| Record size | Count of drop-point |
|-------------|---------------------|
| 30 (12")    | 2 to 19             |

3. If necessary, insert a screwdriver into the hole and adjust the drop-point by turning the adjustment screw.

To change the drop-point inward:

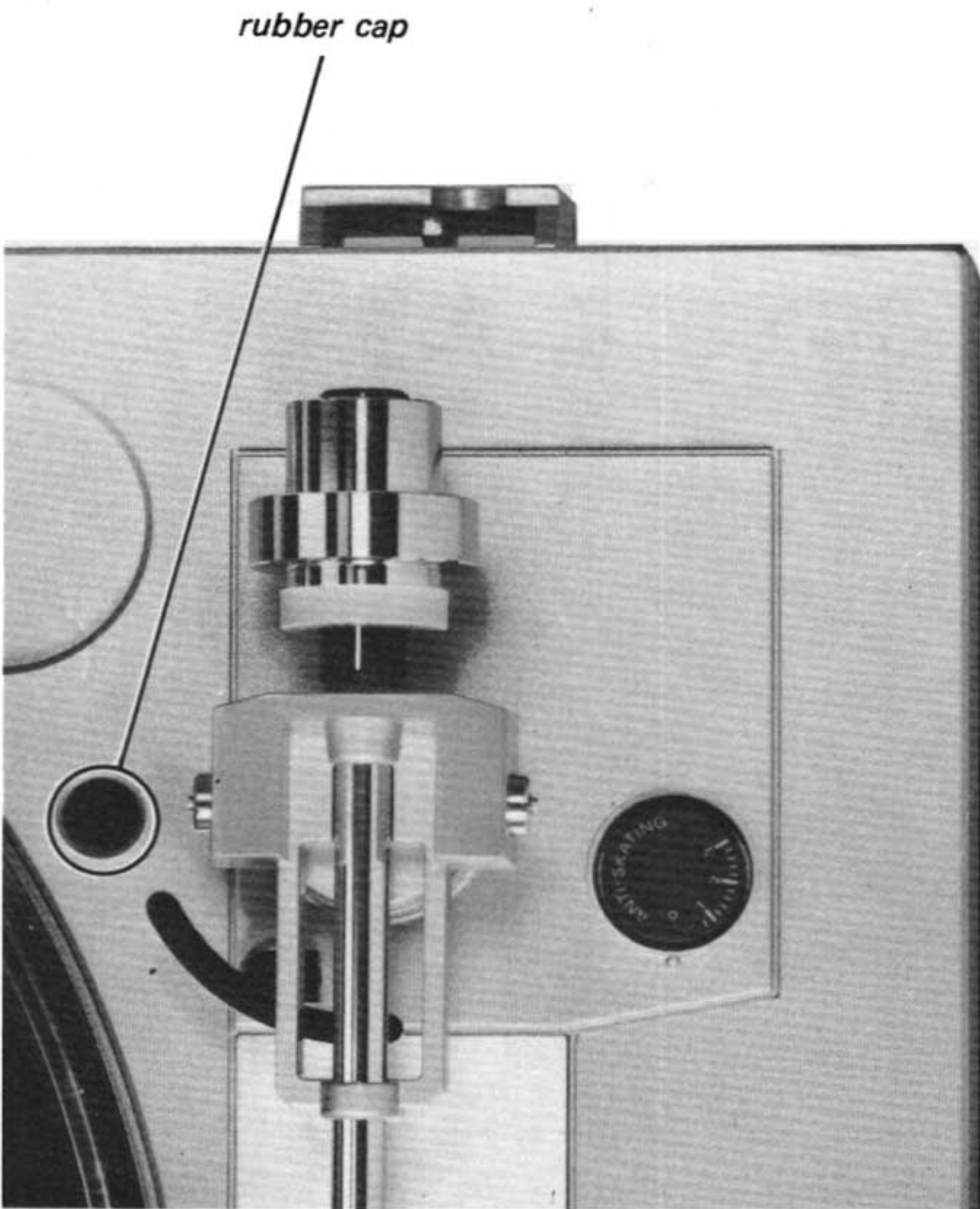
Turn the adjustment screw slightly clockwise.  
(The count of the drop-point will be larger.)

To change the drop-point outward:

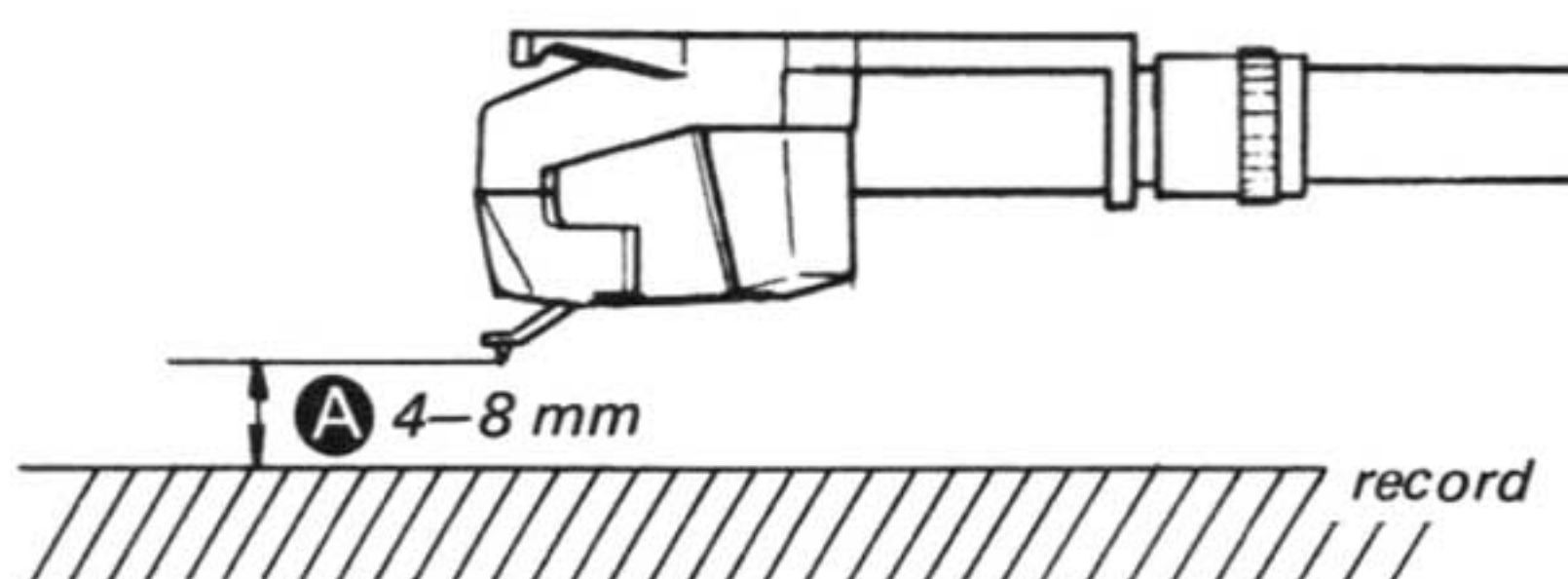
Turn the adjustment screw slightly counter-clockwise. (The count of the drop-point will be smaller.)

**Note 1:** The adjustment screw can be turned with a hexagonally shaped pencil.

**Note 2:** Once it is properly adjusted with a 30 cm (12") record, the drop-point will be correct for 17 cm (7") records.

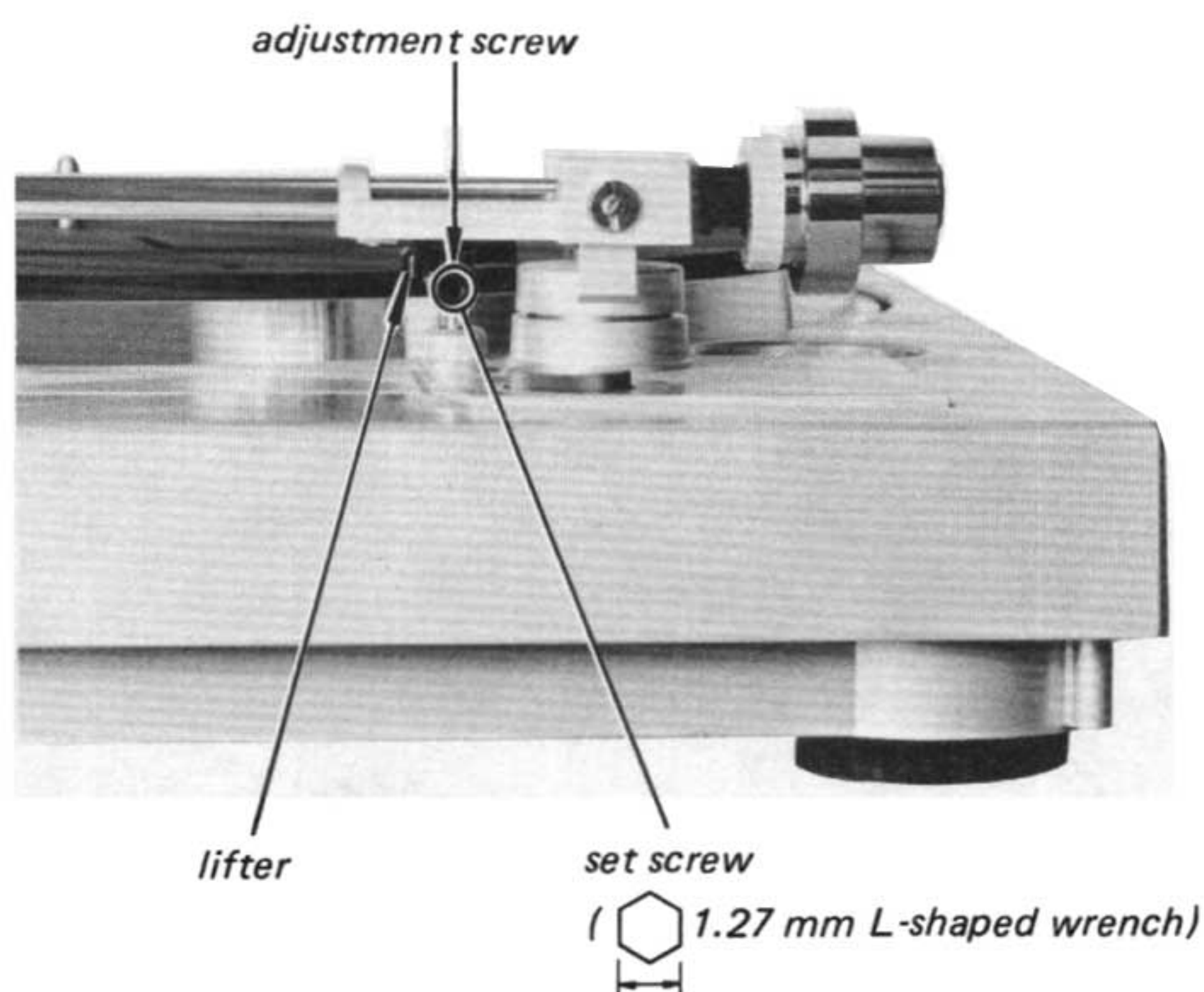


## Stylus Height Adjustment



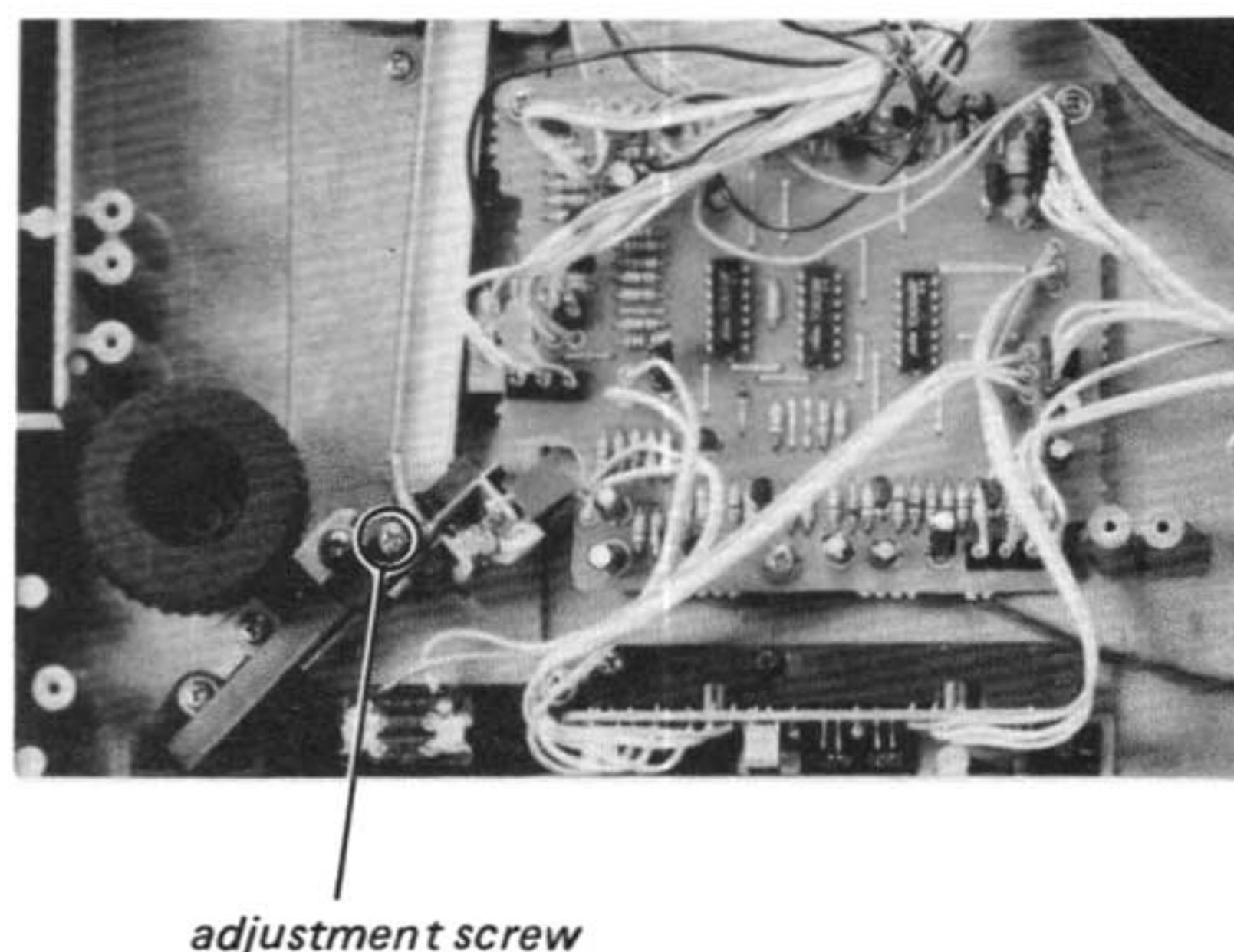
### ● During auto play

1. Put the record on the turntable and lower the tonearm by pressing Up/Down button [  $\nabla$   $\nabla$  ] and then press START/STOP button for record play.
2. When the tonearm reaches the end of the record, turn the POWER switch off before it returns to the arm rest and stop the rotation of the turntable by hand.
3. Make sure that the clearance **A** is 4 – 8 mm ( $\frac{5}{32}$  –  $\frac{5}{16}$  "). If necessary, loosen the set screw and adjust the lifter height.



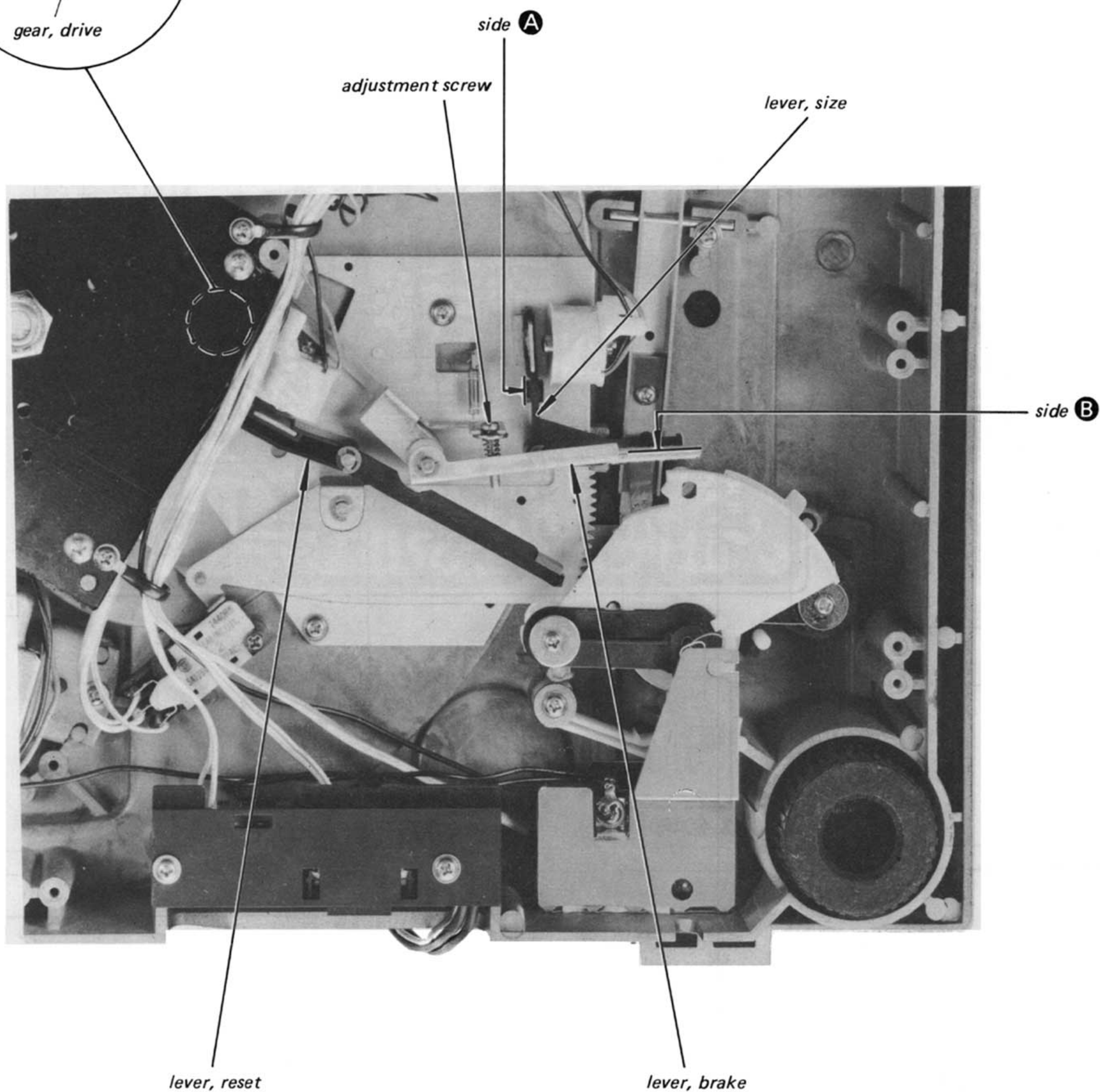
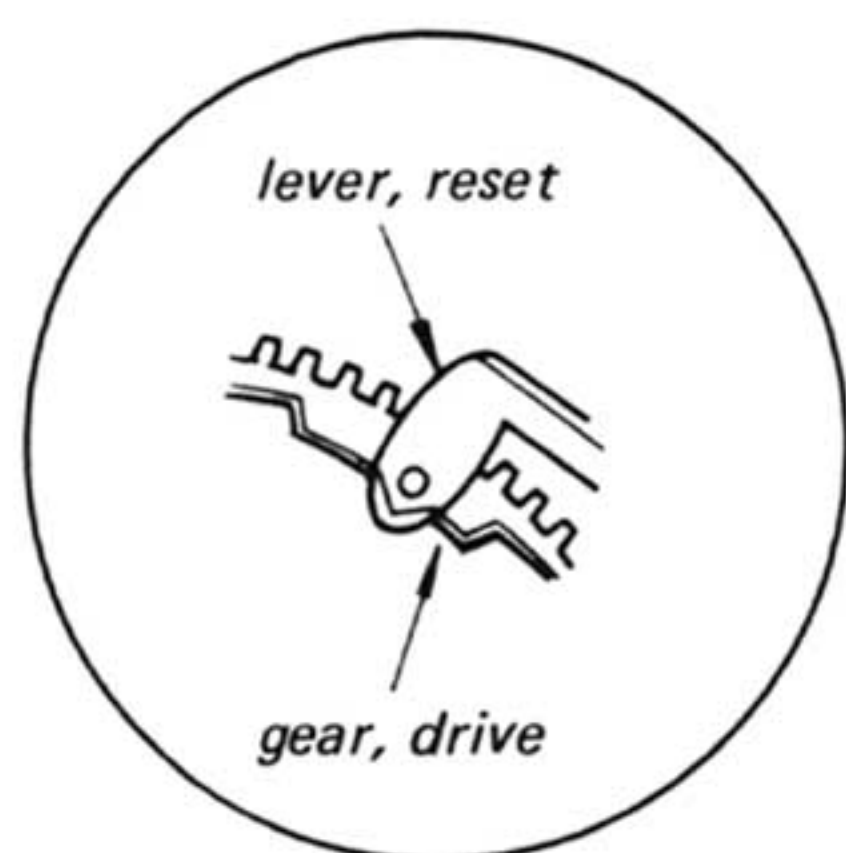
### ● During manual play

1. Lift the tonearm by pressing Up/Down button [  $\nabla$   $\nabla$  ] and then press START/STOP button for record play.
2. When the tonearm reaches the lead-in groove, turn the POWER switch off.
3. Make sure that the clearance **A** is 4 – 8 mm ( $\frac{5}{32}$  –  $\frac{5}{16}$  "). If necessary, turn the adjustment screw on the seesaw lever (B).

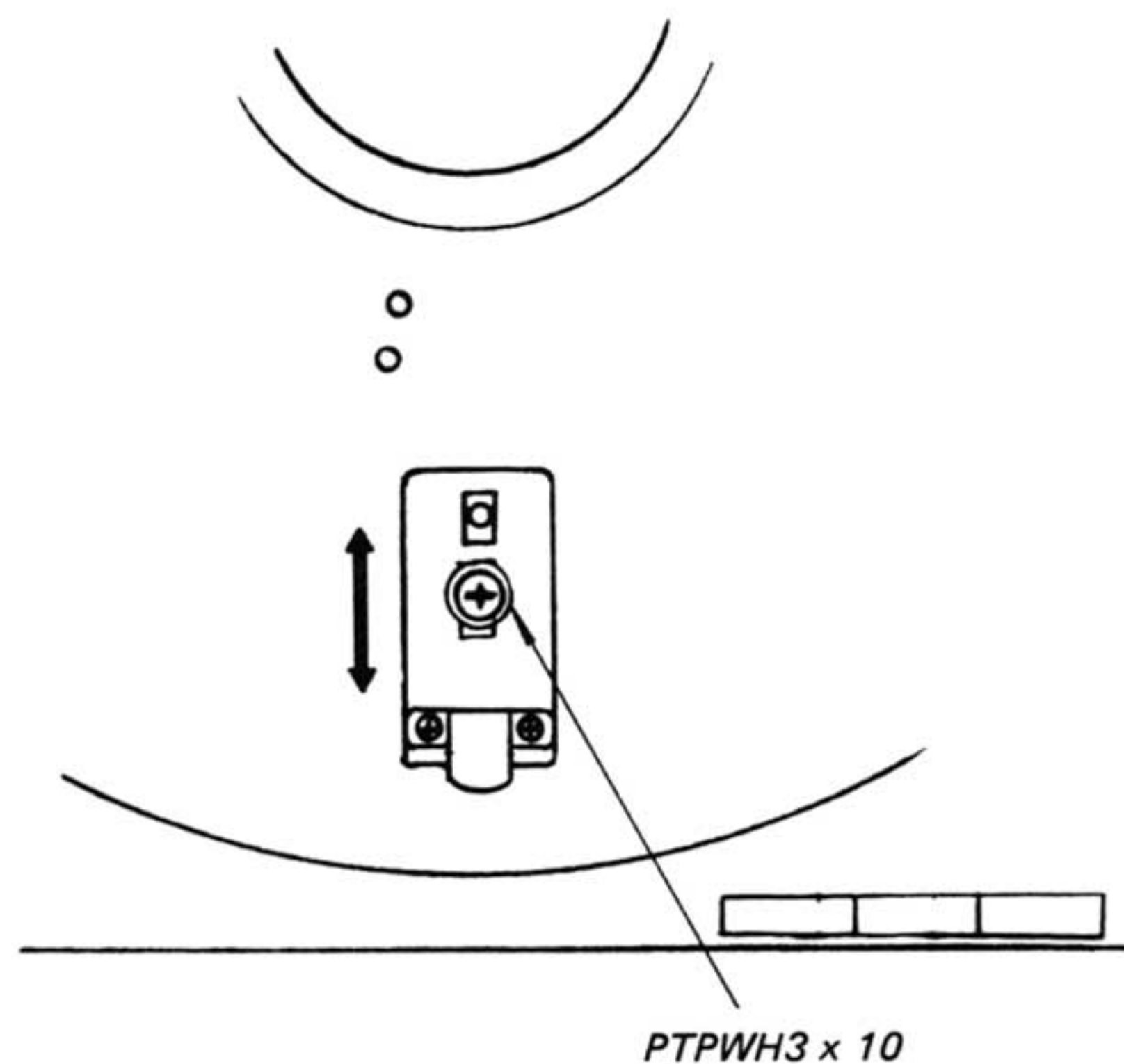


### Brake Lever Position Adjustment (unplug the power cord.)

1. Reset the reset lever, so that the pin of the reset lever is in the reset hole of the drive gear.
2. By turning the adjustment screw, adjust the brake lever position so that:
  - 1) The rubber of the size lever slightly touches side **A** of the chassis.
  - 2) Side **B** of the brake lever slightly touches the pin of the size lever.



— with the turntable removed —

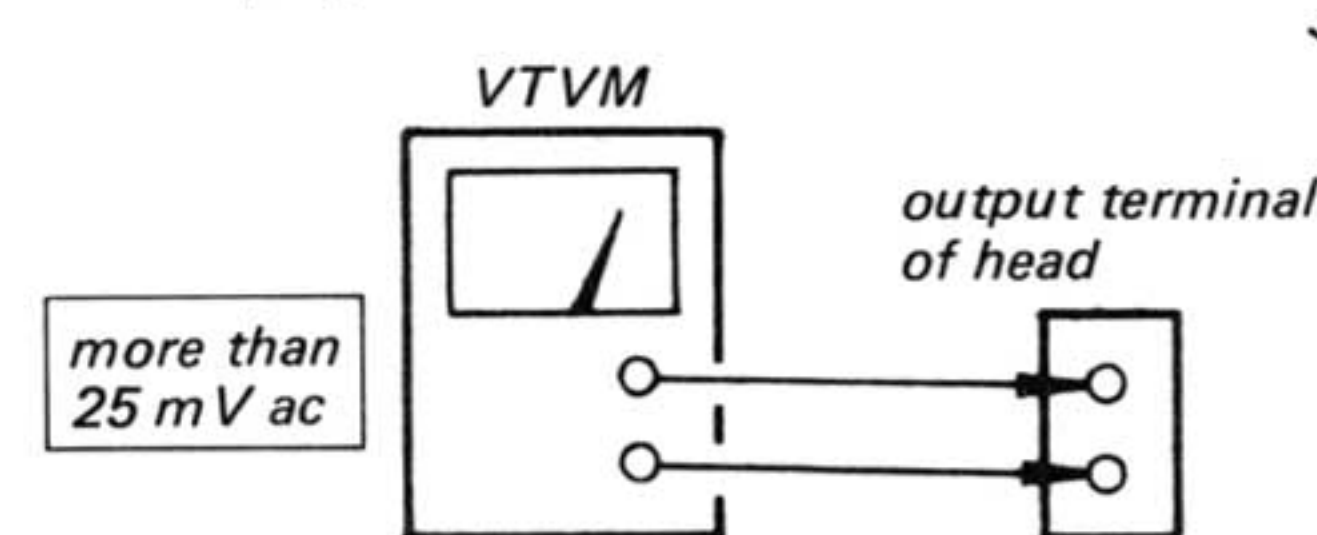


### Speed Detecting Head Output Level Adjustment

#### Setting:

POWER switch: ON

1. Adjust the position of the head by moving it back and forth after loosening the screw (PTPWH 3 x 10) so that the VTVM reading is more than 25 mV ac at 33 1/3 rpm.



2. Make sure that the head does not touch the turntable and tighten the screws securely.

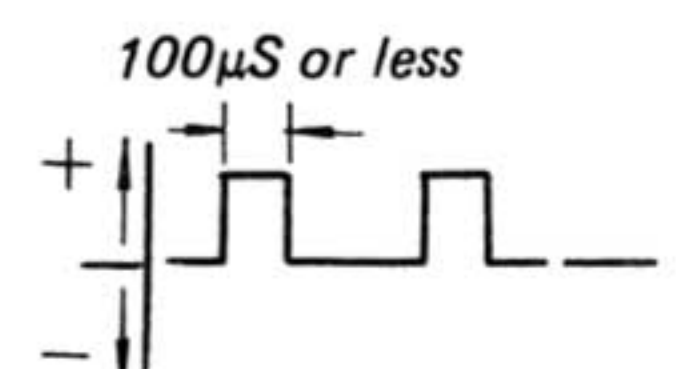
**Note:** The clearance between the magnet coated rim and the speed-detecting head should be more than 0.3 mm.

### Speed Adjustment

#### Setting:

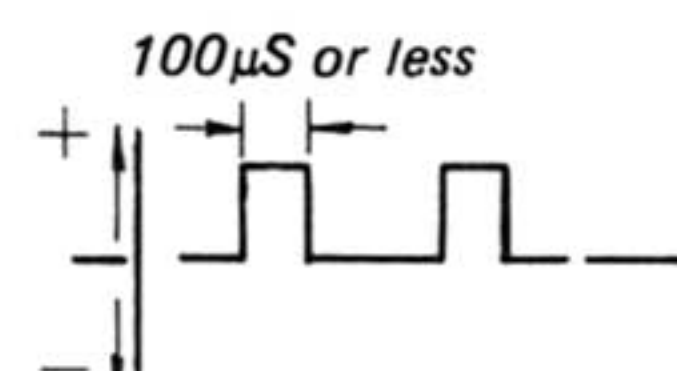
POWER switch: ON

1. Set the SPEED to 45 rpm.
2. Adjust RV102 for specified waveform on the oscilloscope as shown below.

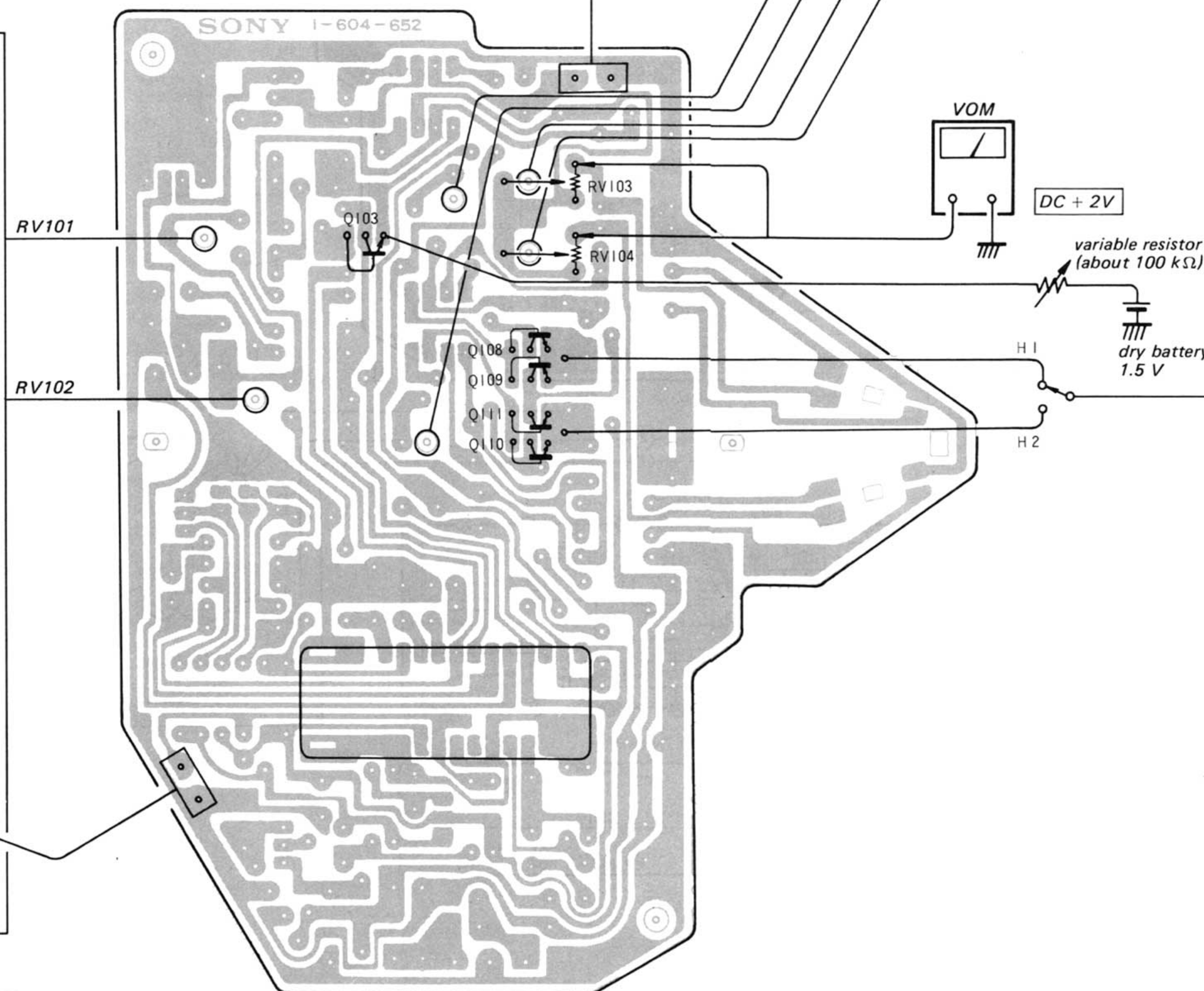
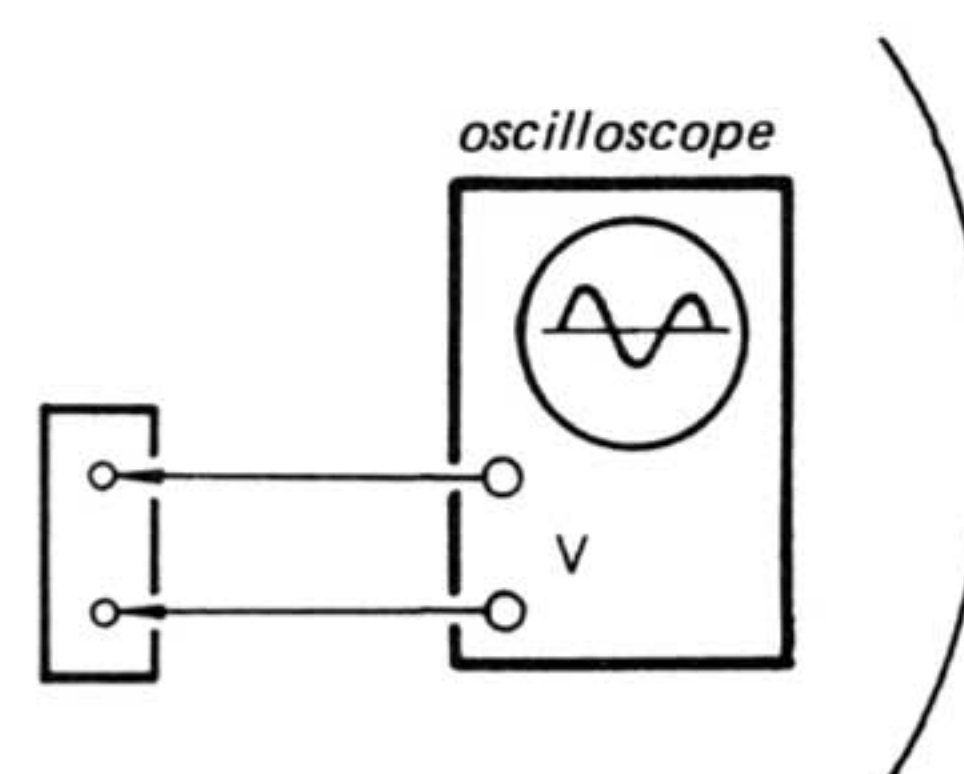


**Note:** The waveform may appear to negative side.

3. Set the SPEED to 33 rpm.
4. Adjust RV101 for specified waveform on the oscilloscope as shown below.



**Note:** The waveform may appear to negative side.



### Gain/Offset Adjustment

Remove the turntable, turn POWER switch on.

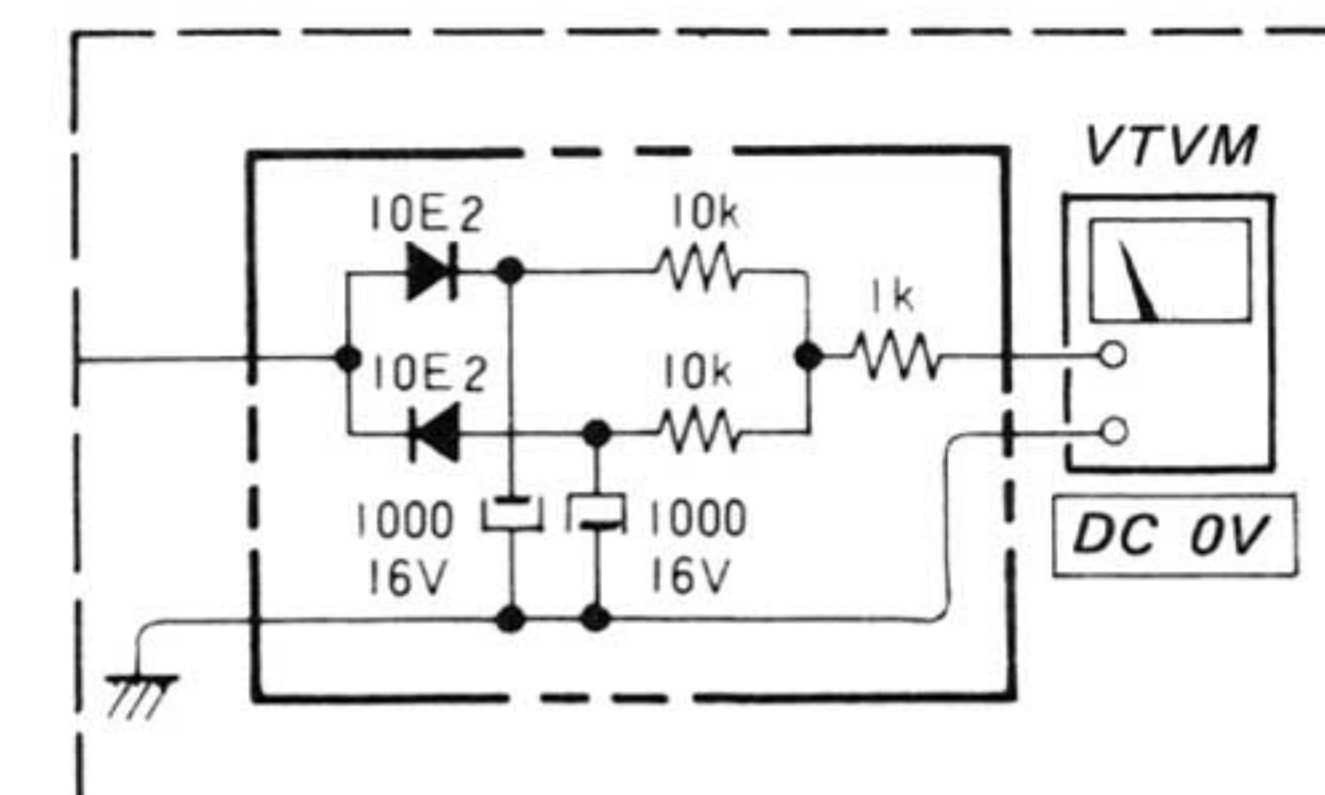
1. Connect a dry battery (1.5 V) to the emitter of Q103 via a variable resistor (about 100 kΩ). Adjust the variable resistor so that terminal voltage at RV103, 104 is 2 V.

#### Gain adjustment:

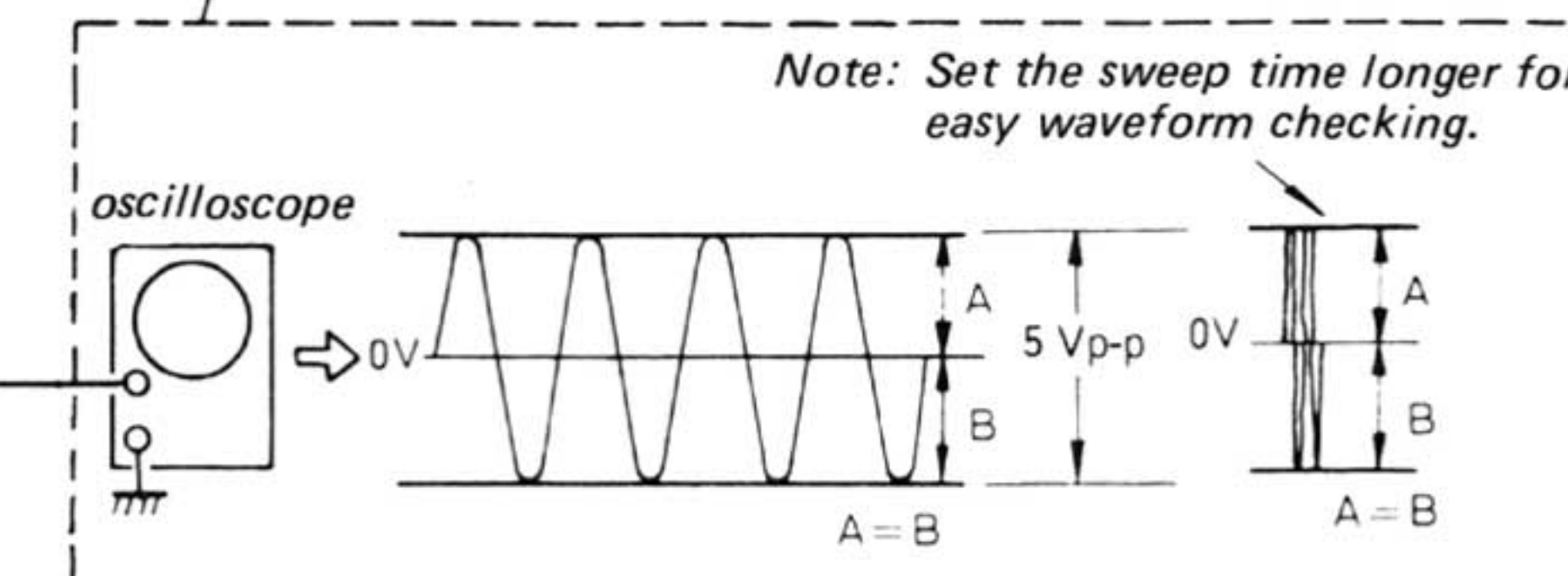
2. Connect an oscilloscope to H1 and adjust RV103 for 5 Vp-p reading on the oscilloscope.
3. Connect an oscilloscope to H2 and adjust RV104 for 5 Vp-p reading on the oscilloscope.

#### Offset adjustment:

4. Connect VTVM or an oscilloscope to H1 and adjust RV105 for 0 V dc VTVM reading or for the waveform on the oscilloscope as shown below.
5. Connect VTVM or an oscilloscope to H2 and adjust RV106 for 0 V dc VTVM reading or for the waveform on the oscilloscope as shown below.



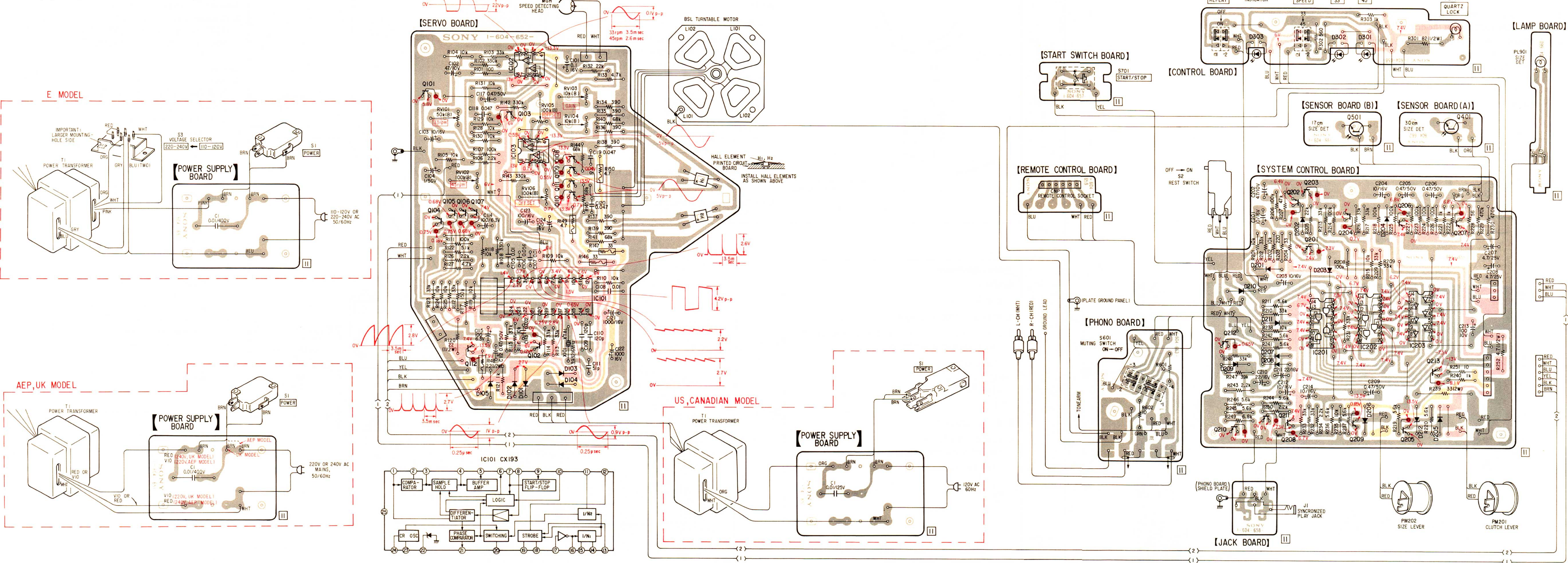
or:



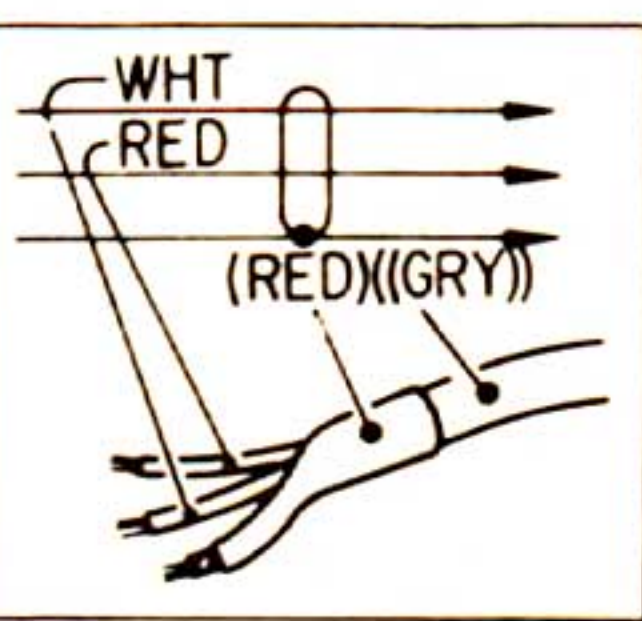
**Note:** Set the sweep time longer for easy waveform checking.

SECTION 4  
DIAGRAMS

4-1. MOUNTING DIAGRAM  
See page 19 for the semiconductor lead layouts.

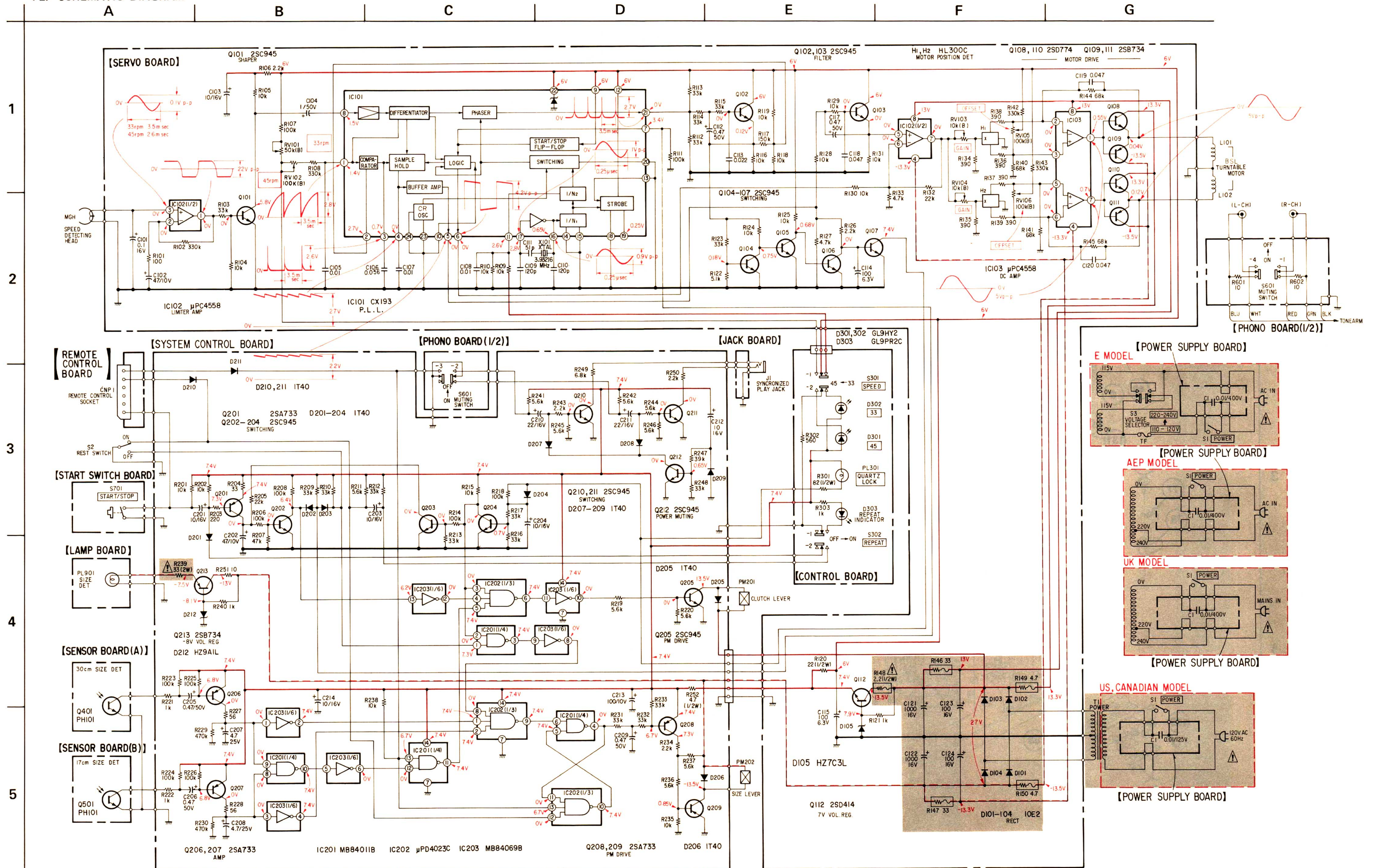


Note:  
• Color code of sleeving over the end of the jacket.

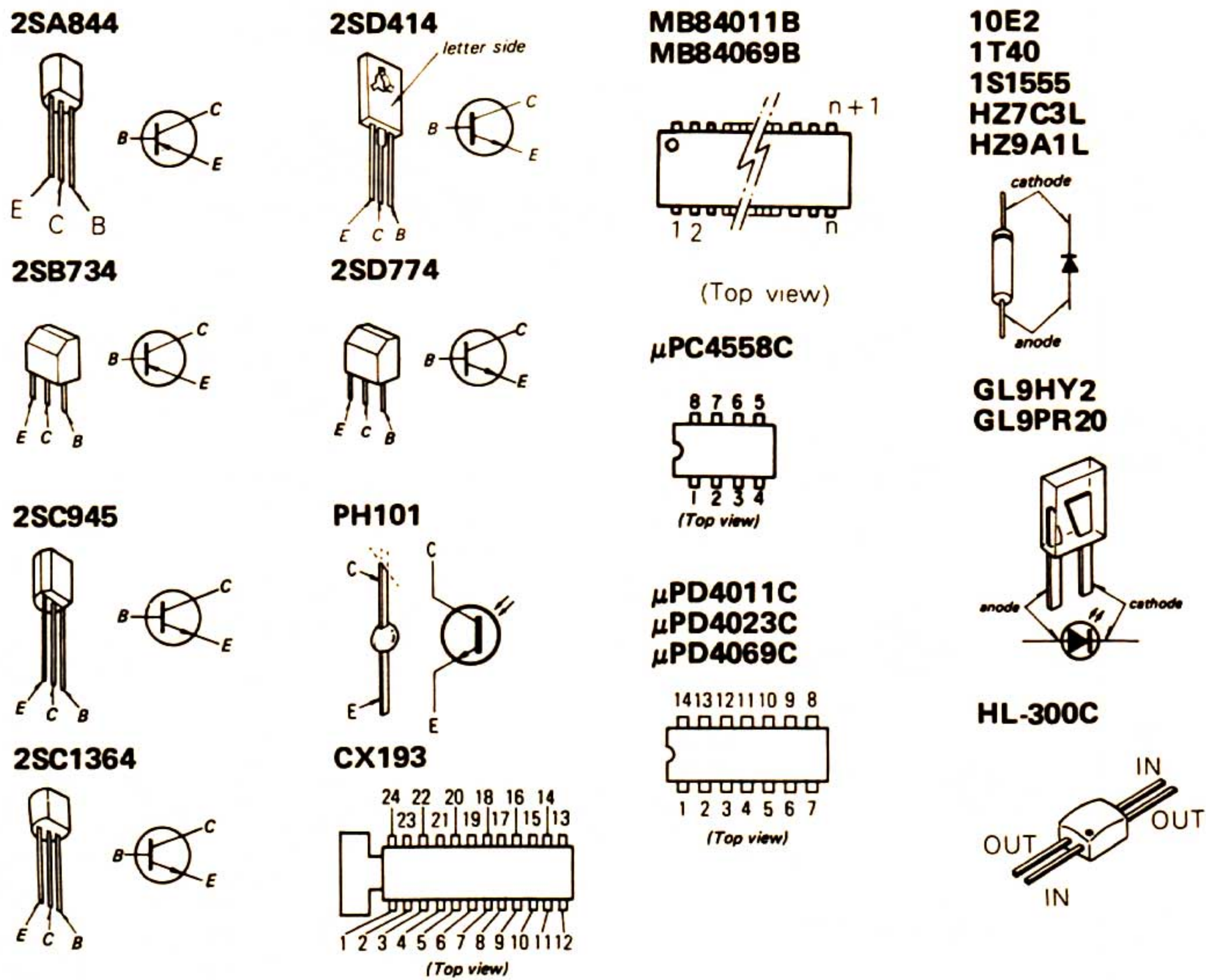


|     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 212 | 210 | 211 | 208 | 202 | 201 | 204 | 206 | 401 | Q  |
| 210 | 209 | 201 | 201 | 202 | 203 | 302 | 205 | 213 | IC |
| 209 | 201 | 211 | 207 | 208 | 206 | 204 | 212 | 205 | D  |

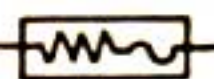
# 4-2. SCHEMATIC DIAGRAM



Semiconductor Lead Layouts



Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF} : \mu\mu\text{F}$   
50WV or less are not indicated except for electrolytics and tantalums.
-  : fusible resistor.
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a VOM (20  $\text{k}\Omega/\text{V}$ ).
- Voltage variations may be noted due to normal production tolerances.
- Switch

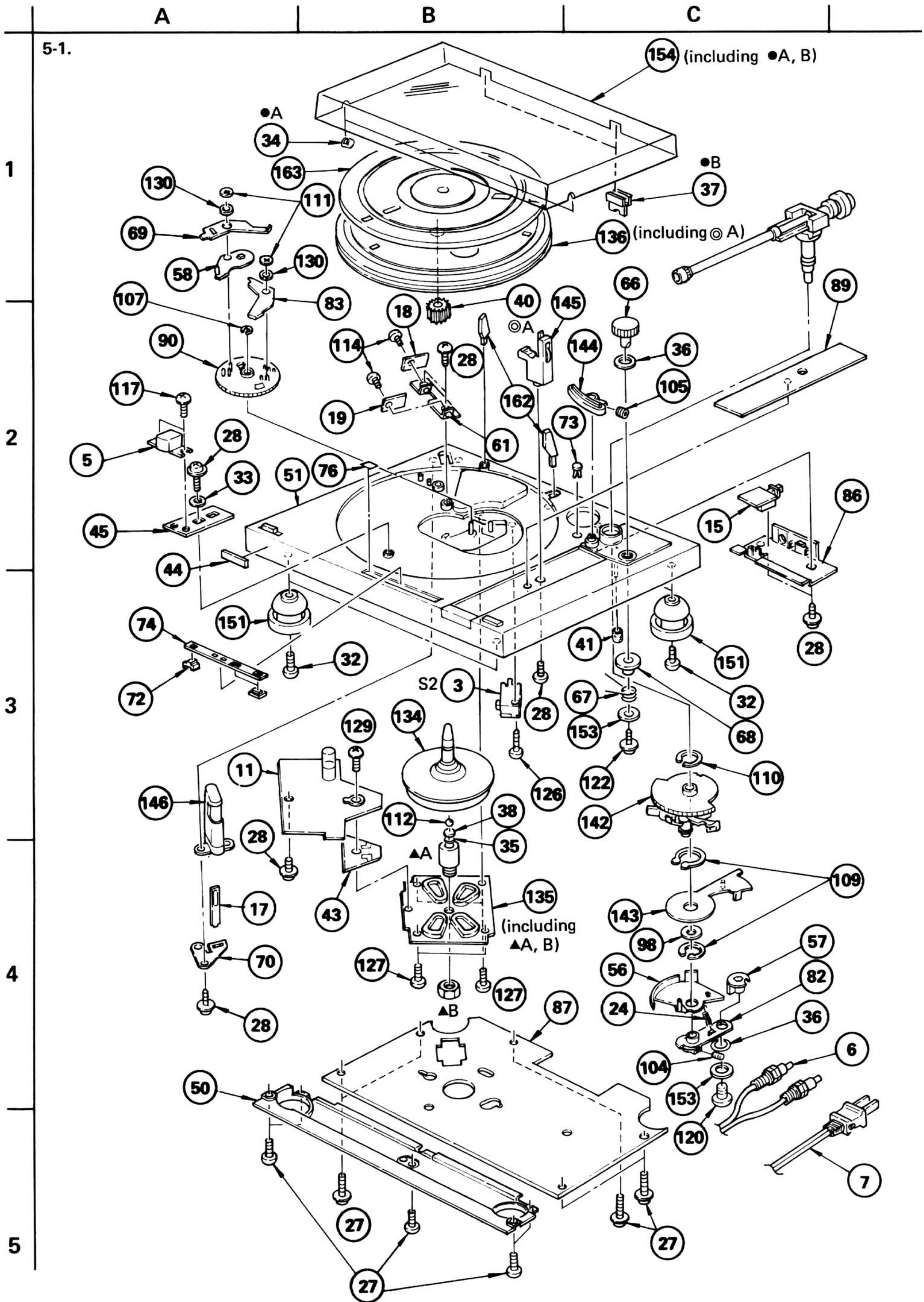
| Ref. No. | Switch     | Position |
|----------|------------|----------|
| S1       | POWER      | OFF      |
| S2       | rest       | rest     |
| S301     | SPEED      | 33 rpm   |
| S302     | REPEAT     | OFF      |
| S601     | muting     | ON       |
| S701     | START/STOP | OFF      |

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

Note: Les composants identifi s par une trame et une marque  sont critiques pour la s curit . Ne les remplacer que par une pi ce portant le num ro sp cifi .

## SECTION 5

### EXPLODED VIEWS AND PARTS LIST

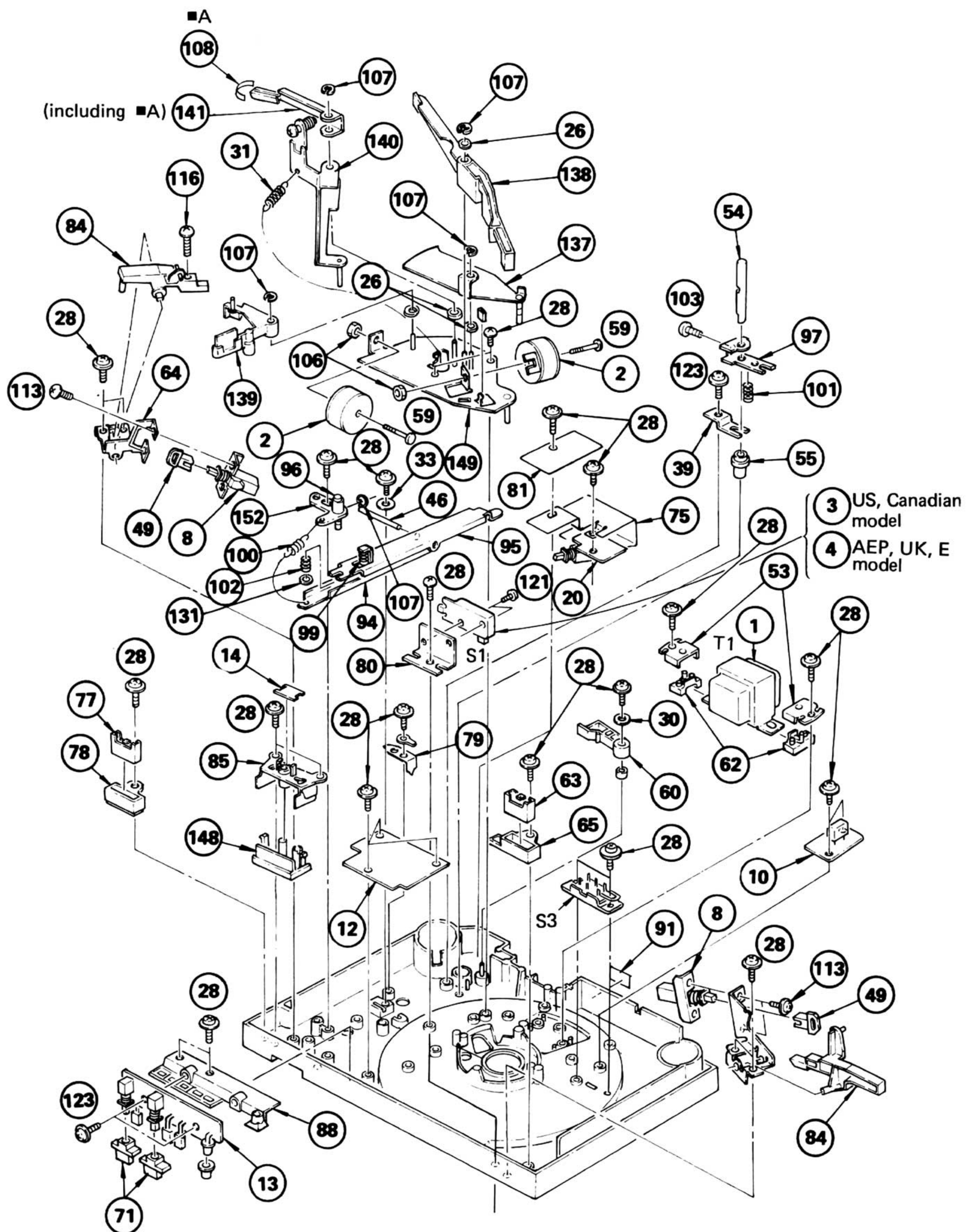


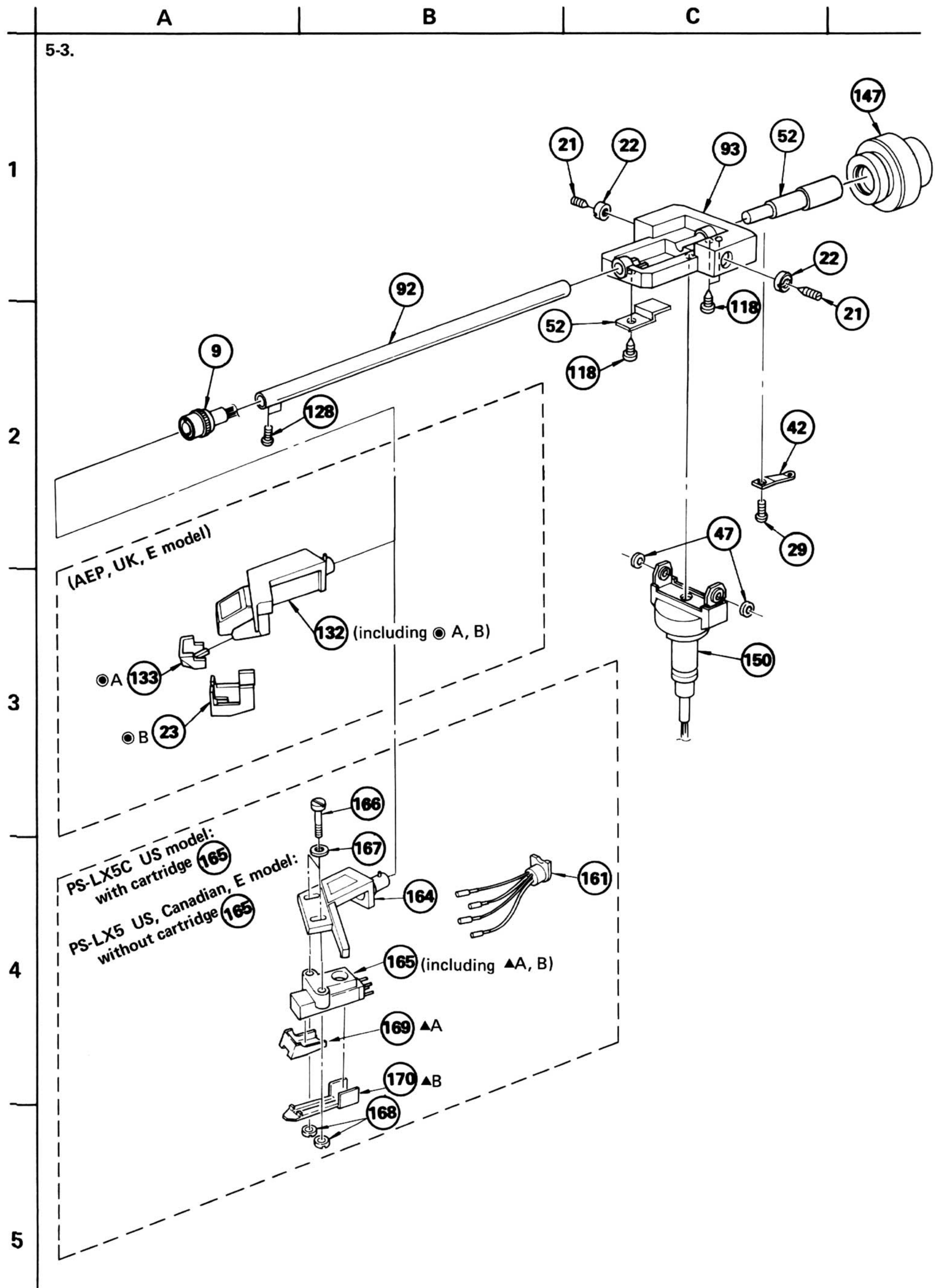
A

B

C

5-2.





## GENERAL SECTION

| No. | Part No.       | Description                                        |
|-----|----------------|----------------------------------------------------|
| 1   | ▲.1-446-967-00 | (E).....TRANSFORMER, POWER (T1)                    |
| 1   | ▲.1-446-966-00 | (AEP,UK).....TRANSFORMER, POWER (T1)               |
| 1   | ▲.1-446-965-00 | (US,Canadian)...TRANSFORMER, POWER (T1)            |
| 2   | 1-454-196-31   | SOLENOID                                           |
| 3   | ▲.1-516-657-00 | SWITCH,MICRO                                       |
| 4   | ▲.1-516-889-00 | SWITCH,MICRO                                       |
| 5   | 1-543-093-00   | HEAD                                               |
| 6   | 1-551-294-00   | CORD                                               |
| 7   | ▲.1-551-628-00 | (US,Canadian)...CORD, POWER                        |
| 7   | ▲.1-551-962-00 | (AEP,UK).....CORD, POWER                           |
| 7   | ▲.1-551-967-00 | (E).....CORD, POWER                                |
| 8   | 1-553-444-00   | SWITCH, PUSH (1 KEY)                               |
| 9   | 1-561-551-00   | CONNECTOR, NECK CYLINDER (M)                       |
| 10  | ▲;1-604-651-00 | PC BOARD, POWER                                    |
| 11  | ▲;A-4619-165-A | MOUNTED PCB, SERVO                                 |
| 12  | ▲;A-4644-075-A | MOUNTED PCB, SYSTEM CONTROL                        |
| 13  | ▲;1-604-656-00 | PC BOARD, CONTROL                                  |
| 14  | ▲;1-604-657-00 | PC BOARD, START SW                                 |
| 15  | ▲;1-604-658-00 | PC BOARD, JACK                                     |
| 16  | ▲;1-604-659-00 | PC BOARD, REMOTE CONTROL                           |
| 17  | ▲;1-604-660-00 | PC BOARD, LAMP                                     |
| 18  | ▲;1-604-661-00 | PC BOARD, SENSOR (A)                               |
| 19  | ▲;1-604-662-00 | PC BOARD, SENSOR (B)                               |
| 20  | ▲;1-604-663-00 | PC BOARD, PHONO                                    |
| 21  | 2-203-518-00   | SCREW                                              |
| 22  | 4-874-272-00   | NUT (L), LOOK                                      |
| 23  | 2-330-163-00   | (AEP,UK,E)...COVER, STYLUS                         |
| 24  | 3-548-124-00   | SPRING, TENSION                                    |
| 25  | .....          |                                                    |
| 26  | 3-701-441-21   | WASHER                                             |
| 27  | 3-703-136-00   | SCREW, TAPPING                                     |
| 28  | 3-703-137-00   | SCREW, TAPPING                                     |
| 29  | 3-703-454-00   | SCREW, TAPPING                                     |
| 30  | 4-301-647-00   | WASHER, SPECIAL                                    |
| 31  | 4-876-346-00   | SPRING, TENSION (RESET)                            |
| 32  | 4-314-529-00   | HEAD, WASHER, TAPPING SCREW                        |
| 33  | 4-812-554-00   | WASHER                                             |
| 34  | 4-876-304-00   | (LX5-US,Canadian,AEP,UK,E)<br>...CUSHION,DUSTCOVER |
| 35  | 4-852-008-00   | RETAINER (B), THRUST                               |
| 36  | 4-844-041-11   | WASHER, (N)                                        |
| 37  | 4-852-704-41   | (LX5-US,Canadian,AEP,UK,E)...HINGE                 |
| 38  | 4-852-007-00   | RETAINER (A), THRUST                               |
| 39  | ▲;4-852-033-00 | RETAINER, CASE, PUSH ROD                           |
| 40  | 4-852-061-00   | GEAR, CENTER                                       |
| 41  | 4-852-841-00   | TUBE                                               |
| 42  | 4-853-043-00   | SPRING (B), GUIDE                                  |
| 43  | 4-857-642-00   | HOLDER, PC BOARD                                   |
| 44  | 4-857-661-11   | EMBLEM, SONY                                       |
| 45  | ▲;4-858-266-00 | BRACKET, HEAD                                      |

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (▲-▲▲▲-▲▲-XX or ▲-▲▲▲-▲▲-X) may be different from those used in the set.

## CAPACITORS:

- All capacitors are in  $\mu$ F. Common capacitors are omitted. Refer to the following lists for their part numbers.  
MF: $\mu$ F, PF: $\mu$ F.

## RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

## COILS

- MMH : mH, UH :  $\mu$ H

## GENERAL SECTION

| No. | Part No.       | Description                    |
|-----|----------------|--------------------------------|
| 46  | ▲;4-861-940-00 | SHAFT, LIFTER LEVER            |
| 47  | 4-863-604-00   | BEARING, PIVOT                 |
| 48  | 4-874-246-00   | RETAINER, PLATE, UP AND DOWN   |
| 49  | 4-870-757-00   | CONNECTOR                      |
| 50  | 4-874-205-01   | PLATE (A), BOTTOM              |
| 51  | ▲;4-874-207-00 | FRAME                          |
| 52  | 4-874-244-00   | BAR, WEIGHT                    |
| 53  | ▲;4-874-210-00 | HOLDER, TRANSFORMER            |
| 54  | 4-874-217-00   | ROD, PUSH                      |
| 55  | ▲;4-874-218-00 | CASE, PUSH ROD                 |
| 56  | 4-874-223-02   | LEVER (A), ARM                 |
| 57  | 4-874-231-00   | CAM, ECCENTRIC                 |
| 58  | 4-874-232-00   | CLUTCH (R)                     |
| 59  | 4-874-234-00   | CORE                           |
| 60  | ▲;4-874-235-00 | LEVER, MUTING                  |
| 61  | ▲;4-874-236-00 | HOLDER, SENSOR                 |
| 62  | 4-874-237-00   | DAMPER, TRANSFORMER            |
| 63  | 4-874-238-00   | KNOB, POWER                    |
| 64  | ▲;4-874-239-00 | HOLDER, LOCK MECHANISM         |
| 65  | 4-874-241-01   | ESCUTCHEON, POWER              |
| 66  | 4-874-247-00   | KNOB, IFC                      |
| 67  | 4-874-250-00   | SPRING                         |
| 68  | 4-874-252-00   | CAM, IFC                       |
| 69  | 4-874-254-00   | CLUTCH (S)                     |
| 70  | ▲;4-874-255-00 | BRACKET, CHASSIS               |
| 71  | 4-874-257-11   | KNOB (A)                       |
| 72  | 4-874-258-01   | PLATE, INDICATION              |
| 73  | 4-874-260-01   | CAP, BLIND                     |
| 74  | 4-874-261-01   | PANEL (D), INDICATION          |
| 75  | ▲;4-874-263-00 | PLATE (A), SHIELD              |
| 76  | 4-874-265-11   | FILTER                         |
| 77  | 4-874-267-01   | KNOB, LIFTER                   |
| 78  | 4-874-269-11   | ESCUTCHEON, LIFTER             |
| 79  | 4-874-273-00   | PLATE, GROUND, PANEL           |
| 80  | 4-874-274-00   | HOLDER, SWITCH, MICRO          |
| 81  | ▲;4-874-276-00 | PLATE (B), SHIELD              |
| 82  | 4-874-277-03   | LEVER (B), ARM                 |
| 83  | 4-874-279-00   | CLUTCH (L)                     |
| 84  | 4-874-280-00   | LEVER (B), SEESAW              |
| 85  | 4-874-281-01   | ESCUTCHEON, START              |
| 86  | 4-874-285-01   | BOARD, TERMINAL,REMOTE CONTROL |
| 87  | ▲;4-874-286-00 | BOARD (B), BOTTOM              |
| 88  | 4-874-288-01   | ESCUTCHEON                     |
| 89  | 4-874-290-01   | PANEL                          |
| 90  | 4-874-292-00   | GEAR (F), DRIVE                |

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## GENERAL SECTION

| No. | Part No.       | Description                                |
|-----|----------------|--------------------------------------------|
| 91  | 4-876-327-00   | (US,Canadian)...LABEL, MODEL NUMBER        |
| 91  | 4-876-303-00   | (AEP).....LABEL, MODEL NUMBER              |
| 91  | 4-876-329-00   | (UK).....LABEL, MODEL NUMBER               |
| 91  | 4-876-331-00   | (E).....LABEL, MODEL NUMBER                |
| 92  | 4-874-243-00   | PIPE, ARM                                  |
| 93  | 4-874-291-00   | JOINT (D), PIPE                            |
| 94  | ♣;4-876-314-00 | LEVER (C), SEESAW                          |
| 95  | ♣;4-876-315-00 | LEVER (D), SEESAW                          |
| 96  | 4-876-316-00   | ROD, DAMPER                                |
| 97  | ♣;4-876-317-00 | GUIDE, LIFTER                              |
| 98  | 4-876-324-21   | POLY-SLIDER (DIA.9.5)                      |
| 99  | 4-876-338-00   | SPRING, TENSION (UP)                       |
| 100 | 4-876-339-00   | SPRING, TENSION (DOWN)                     |
| 101 | 4-876-340-00   | SPRING, COMPRESSION                        |
| 102 | 4-876-375-00   | SPRING, COMPRESSION                        |
| 103 | 7-621-259-45   | SCREW +P 2.6X6                             |
| 104 | 3-701-509-00   | SET SCREW, DOUBLECUP 3X8                   |
| 105 | 7-621-738-08   | SET-SCT,HEX. 2.6X4,FLAT POINT              |
| 106 | 7-622-207-05   | N 2.6, TYPE 2                              |
| 107 | 7-624-106-04   | STOP RING 3.0, TYPE -E                     |
| 108 | 4-874-275-00   | PAD, BRAKE                                 |
| 109 | 7-624-133-44   | STOP RING 9, TYPE-CE                       |
| 110 | 7-624-133-54   | STOP RING 10, TYPE-CE                      |
| 111 | 7-624-190-81   | STOP RING 2, TYPE-CS                       |
| 112 | 7-671-114-01   | BALL 4, STEEL                              |
| 113 | 7-682-146-01   | SCREW +P 3X5                               |
| 114 | 7-682-546-04   | SCREW +B 3X5                               |
| 115 | .....          |                                            |
| 116 | 7-682-553-04   | SCREW +B 3X20                              |
| 117 | 7-685-102-21   | SCREW +P 2X4 TYPE2 SLIT                    |
| 118 | 7-685-104-64   | SCREW +P 2X6 TYPE2 SLIT                    |
| 119 | .....          |                                            |
| 120 | 7-685-145-21   | SCREW +P 3X6 TYPE2 SLIT                    |
| 121 | 7-685-150-21   | SCREW +P 3X16 TYPE2 SLIT                   |
| 122 | 7-685-152-21   | SCREW +P 3X25 TYPE2 SLIT                   |
| 123 | 7-685-646-21   | SCREW +BVTP 3X8 TYPE2 SLIT                 |
| 124 | .....          |                                            |
| 125 | .....          |                                            |
| 126 | 7-685-651-21   | SCREW +BVTP 3X20 TYPE1                     |
| 127 | 7-685-661-21   | SCREW +BVTP 4X12 TYPE2 SLIT                |
| 128 | 7-685-772-04   | SCREW +PTT 1.7X2 TYPE1                     |
| 129 | 7-685-872-01   | SCREW +BVTT 3X8 (S)                        |
| 130 | 7-623-105-15   | W 2, MIDDLE                                |
| 131 | 7-688-004-11   | W 4, MIDDLE                                |
| 132 | A-4505-068-A   | (AEP,UK,E)..CARTRIDGE COMPLETE ASSY,XL-200 |
| 133 | A-4587-061-A   | (AEP,UK,E)..STYLUS ASSY, ND-200G           |
| 134 | A-4608-175-A   | ROTOR ASSY                                 |
| 135 | A-4608-176-A   | STATOR ASSY                                |

## GENERAL SECTION

| No. | Part No.       | Description                                       |
|-----|----------------|---------------------------------------------------|
| 136 | X-4874-218-0   | TURNTABLE ASSY                                    |
| 137 | ♣;X-4874-202-0 | LEVER ASSY, MAIN                                  |
| 138 | X-4874-203-0   | LEVER ASSY, CLUTCH                                |
| 139 | ♣;X-4874-204-0 | LEVER ASSY, SIZE                                  |
| 140 | ♣;X-4874-205-0 | LEVER ASSY, RESET                                 |
| 141 | ♣;X-4874-206-0 | LEVER ASSY, BRAKE                                 |
| 142 | X-4874-208-0   | LEVER (A) ASSY, INDEX                             |
| 143 | ♣;X-4874-209-0 | LEVER (B) ASSY, INDEX                             |
| 144 | X-4874-211-0   | PLATE ASSY, UP AND DOWN                           |
| 145 | X-4874-212-1   | REST ASSY, ARM                                    |
| 146 | X-4874-213-0   | HOUSE ASSY, LIGHT                                 |
| 147 | X-4874-214-0   | WEIGHT ASSY, MAIN                                 |
| 148 | X-4874-215-1   | KNOB ASSY, START                                  |
| 149 | ♣;X-4874-217-0 | CHASSIS ASSY                                      |
| 150 | X-4874-219-0   | JOINT ASSY, CENTER                                |
| 151 | X-4874-224-0   | INSULATOR ASSY                                    |
| 152 | X-4874-225-0   | CASE ASSY, DAMPER                                 |
| 153 | 0-056-028-00   | WASHER, 14                                        |
| 154 | X-4874-220-0   | (LX5-US,Canadian,AEP,UK,E)<br>...COVER ASSY, DUST |

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Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

## CAPACITORS:

• All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.  
MF:μF, PF:μμF.

## RESISTORS

• All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

• F : nonflammable

## COILS

• MMH : mH, UH : μH

## ACCESSORY &amp; PACKING MATERIAL

| No. | Part No.     | Description                                               |
|-----|--------------|-----------------------------------------------------------|
| 161 | 1-555-463-00 | (US,Canadian,E).....CONNECTOR,WITH LEAD                   |
|     | 3-701-613-00 | BAG, POLYETHYLENE                                         |
|     | 3-701-616-00 | BAG, POLYETHYLENE                                         |
|     | 3-701-630-00 | BAG, POLYETHYLENE                                         |
|     | 3-701-806-00 | (E).....ADAPTOR, 45                                       |
|     | 3-783-559-11 | (AEP,UK,E).....MANUAL, INSTRUCTION                        |
|     | 3-783-559-21 | (US,Canadian).....MANUAL, INSTRUCTION                     |
|     | 3-794-123-11 | LABEL, CAUTION                                            |
|     | 3-795-153-51 | (E).....INSTRUCTION, HEAD SHELL                           |
|     | 4-862-043-00 | CUSHION, ARM                                              |
|     | 4-862-680-00 | PROTECTOR                                                 |
|     | 4-870-529-00 | (E).....SHELL CASE                                        |
| 162 | 4-874-262-00 | GUIDE, RECORD                                             |
| 163 | 4-874-202-01 | (Canadian,AEP,UK,E)...SHEET, TURNTABLE                    |
| 163 | 4-874-202-11 | (US).....SHEET, TURNTABLE                                 |
|     | 4-876-310-00 | CUSHION, TURNTABLE                                        |
|     | 4-876-320-00 | SPACER, CLUTCH                                            |
|     | 4-876-348-00 | (AEP,UK,E)..GUIDE,STYLUS PRESSURE SETTING                 |
|     | 4-876-350-00 | HOLDER, TABLE                                             |
|     | 4-876-352-00 | SHEET, PROTECTION                                         |
|     | 4-876-355-00 | INDIVIDUAL CARTON                                         |
|     | 4-876-356-00 | CUSHION, LEFT                                             |
|     | 4-876-357-00 | CUSHION, RIGHT                                            |
| 164 | X-4869-912-3 | (US,Canadian).....SHELL ASSY, HEAD                        |
| 164 | X-4874-226-0 | (E).....SHELL ASSY, HEAD                                  |
|     | X-4869-915-0 | (LX5-US,Canadian,E)<br>.....SCREW ASSY, CARTRIDGE FITTING |
|     | X-4874-227-0 | (LX5-US,Canadian,AEP,UK,E).WEIGHT ASSY, SUR               |
| 165 | 1-549-105-00 | (LX5C-US)...CARTRIDGE COMPLETE ASSY, VL-5                 |
| 166 | 2-056-532-00 | (LX5C-US)...SCREW, CARTRIDGE FITTING                      |
| 167 | 2-229-507-00 | (LX5C-US)...WASHER, CARTRIDGE FITTING                     |
| 168 | 4-815-655-01 | (LX5C-US)...NUT (A), CARTRIDGE FITTING                    |
| 169 | A-4587-058-A | (LX5C-US)...STYLUS, (ND-5G)                               |
| 170 | 2-231-164-00 | (LX5C-US)...COVER, STYLUS                                 |

## ELECTRICAL PARTS

| Ref.No.   | Part No.       | Description                            |
|-----------|----------------|----------------------------------------|
| C1        | △ 1-161-744-00 | (AEP,UK,E).....CAP,CERAMIC 0.01MF 400V |
| C1        | △ 1-161-749-00 | (US,Canadian)..CAP,CERAMIC 0.01MF 125V |
| C121, 122 | △ 1-123-324-00 | 1000MF 16V                             |
| C123, 124 | △ 1-123-330-00 | 100MF 16V                              |
| CNP1      | △ 1-508-994-00 | PIN, CONNECTOR                         |
| D101      | △ 8-719-200-02 | DIODE 10E-2                            |
| D102      | △ 8-719-200-02 | DIODE 10E-2                            |
| D103      | △ 8-719-200-02 | DIODE 10E-2                            |
| D104      | △ 8-719-200-02 | DIODE 10E-2                            |
| D105      | 8-719-910-79   | DIODE HZ7C3L                           |
| D201      | 8-719-815-55   | DIODE 1S1555                           |
| D202      | 8-719-815-55   | DIODE 1S1555                           |
| D203      | 8-719-815-55   | DIODE 1S1555                           |
| D204      | 8-719-815-55   | DIODE 1S1555                           |
| D205      | 8-719-815-55   | DIODE 1S1555                           |
| D206      | 8-719-815-55   | DIODE 1S1555                           |
| D207      | 8-719-815-55   | DIODE 1S1555                           |
| D208      | 8-719-815-55   | DIODE 1S1555                           |
| D209      | 8-719-815-55   | DIODE 1S1555                           |
| D210      | 8-719-815-55   | DIODE 1S1555                           |
| D211      | 8-719-815-55   | DIODE 1S1555                           |
| D212      | 8-719-990-91   | DIODE HZ9A1L                           |
| D301      | 8-719-904-92   | DIODE GL-9HY2                          |
| D302      | 8-719-904-92   | DIODE GL-9HY2                          |
| D303      | 8-719-900-92   | DIODE GL-9PR20                         |
| IC101     | 8-751-930-00   | IC CX-193                              |
| IC102     | 8-759-145-58   | IC UPC4558C                            |
| IC103     | 8-759-145-58   | IC UPC4558C                            |
| IC201     | 8-759-240-11   | IC UPD4069C                            |
| IC202     | 8-759-140-23   | IC UPD4023C                            |
| IC203     | 8-759-140-69   | IC UPD4069C                            |
| H1        | 8-719-903-00   | DIODE HL-300C                          |
| H2        | 8-719-903-00   | DIODE HL-300C                          |
| J1        | 1-507-688-21   | JACK (STEREO PLUG)                     |
| PL301     | 1-518-322-21   | LAMP, PILOT                            |
| PL901     | 1-518-305-00   | LAMP, PILOT                            |
| Q101      | 8-729-663-47   | TRANSISTOR 2SC1364                     |
| Q102      | 8-729-663-47   | TRANSISTOR 2SC1364                     |
| Q103      | 8-729-663-47   | TRANSISTOR 2SC1364                     |
| Q104      | 8-729-663-47   | TRANSISTOR 2SC1364                     |
| Q105      | 8-729-663-47   | TRANSISTOR 2SC1364                     |
| Q106      | 8-729-663-47   | TRANSISTOR 2SC1364                     |
| Q107      | 8-729-663-47   | TRANSISTOR 2SC1364                     |
| Q108      | 8-729-177-43   | TRANSISTOR 2SD774                      |
| Q109      | 8-729-103-43   | TRANSISTOR 2SB734                      |
| Q110      | 8-729-177-43   | TRANSISTOR 2SD774                      |

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## CAPACITORS:

- All capacitors are in  $\mu\text{F}$ . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: $\mu\text{F}$ , PF: $\mu\text{pF}$ .

## RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

## COILS

- MMH : mH, UH :  $\mu\text{H}$

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

# ELECTRICAL PARTS

| Ref.No. | Part No.       | Description                                                           |
|---------|----------------|-----------------------------------------------------------------------|
| Q111    | 8-729-103-43   | TRANSISTOR 2SB734                                                     |
| Q112    | 8-729-141-43   | TRANSISTOR 2SD414                                                     |
| Q201    | 8-729-384-47   | TRANSISTOR 2SA844                                                     |
| Q202    | 8-729-663-47   | TRANSISTOR 2SC1364                                                    |
| Q203    | 8-729-663-47   | TRANSISTOR 2SC1364                                                    |
| Q204    | 8-729-663-47   | TRANSISTOR 2SC1364                                                    |
| Q205    | 8-729-663-47   | TRANSISTOR 2SC1364                                                    |
| Q206    | 8-729-384-47   | TRANSISTOR 2SA844                                                     |
| Q207    | 8-729-384-47   | TRANSISTOR 2SA844                                                     |
| Q208    | 8-729-384-47   | TRANSISTOR 2SA844                                                     |
| Q209    | 8-729-384-47   | TRANSISTOR 2SA844                                                     |
| Q210    | 8-729-663-47   | TRANSISTOR 2SC1364                                                    |
| Q211    | 8-729-663-47   | TRANSISTOR 2SC1364                                                    |
| Q212    | 8-729-663-47   | TRANSISTOR 2SC1364                                                    |
| Q213    | 8-729-103-43   | TRANSISTOR 2SB734                                                     |
| Q401    | 8-729-101-01   | TRANSISTOR PH101                                                      |
| Q501    | 8-729-101-01   | TRANSISTOR PH101                                                      |
| R146    | △ 1-212-869-00 | FUSIBLE 33 5% 1/4W F                                                  |
| R147    | △ 1-212-869-00 | FUSIBLE 33 5% 1/4W F                                                  |
| R148    | △ 1-212-942-00 | FUSIBLE 2.2 5% 1/2W F                                                 |
| R149    | △ 1-212-849-00 | FUSIBLE 4.7 5% 1/4W F                                                 |
| R150    | △ 1-212-849-00 | FUSIBLE 4.7 5% 1/4W F                                                 |
| R239    | △ 1-206-475-00 | METAL 33 5% 2W F                                                      |
| RV101   | 1-228-222-00   | RES, ADJ, METAL GLAZE 50K                                             |
| RV102   | 1-228-223-00   | RES, ADJ, METAL GLAZE 100K                                            |
| RV103   | 1-226-236-00   | RES, ADJ, CARBON 10K                                                  |
| RV104   | 1-226-236-00   | RES, ADJ, CARBON 10K                                                  |
| RV105   | 1-226-239-00   | RES, ADJ, CARBON 100K                                                 |
| RV106   | 1-226-239-00   | RES, ADJ, CARBON 100K                                                 |
| S3      | △ 1-552-535-00 | (E).....SWITCH, VOLTAGE CHANGE                                        |
| S301    | 1-553-331-21   | SWITCH, PUSH                                                          |
| S302    | 1-553-331-21   | SWITCH, PUSH                                                          |
| S601    | 1-553-693-00   | SWITCH, PUSH                                                          |
| S701    | 1-553-580-00   | SWITCH, KEY BOARD                                                     |
| X101    | 1-527-380-00   | CRYSTAL, OSC                                                          |
|         | 1-526-565-00   | (Supplied only with E model<br>for EURO-PLUG)<br>.....AC PLUG ADAPTOR |

## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.

## CAPACITORS:

- All capacitors are in  $\mu$ F. Common capacitors are omitted. Refer to the following lists for their part numbers.  
MF: $\mu$ F, PF: $\mu$  $\mu$ F.

## RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

## COILS

- MMH : mH, UH :  $\mu$ H

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**ELECTROLYTIC CAPACITORS**

| RATING → : Use the high voltage rated one. |              |                |              |              |              |              |
|--------------------------------------------|--------------|----------------|--------------|--------------|--------------|--------------|
| CAP. (μF)                                  | 6.3 VOLT.    | 10 VOLT.       | 16 VOLT.     | 25 VOLT.     | 35 VOLT.     | 50 VOLT.     |
|                                            | PART No.     | PART No.       | PART No.     | PART No.     | PART No.     | PART No.     |
| 0.47                                       |              |                |              |              | →            | 1-121-726-00 |
| 1.0                                        |              |                |              |              | →            | 1-121-391-00 |
| 2.2                                        |              |                |              |              | →            | 1-121-450-00 |
| 3.3                                        | →            | →              | →            | 1-121-392-00 | →            | 1-121-393-00 |
| 4.7                                        | →            | →              | →            | 1-121-395-00 | →            | 1-121-396-00 |
| 10                                         | →            | →              | 1-121-651-00 | 1-121-398-00 | →            | 1-121-738-00 |
| 22                                         | →            | →              | 1-121-479-00 | 1-121-480-00 | 1-121-662-00 | 1-121-152-00 |
| 33                                         | →            | →              | 1-121-403-00 | 1-121-404-00 | 1-121-652-00 | 1-121-405-00 |
| 47                                         | →            | • 1-121-352-00 | 1-121-409-00 | 1-121-410-00 | 1-121-653-00 | 1-121-411-00 |
| 100                                        | →            | 1-121-414-00   | 1-121-415-00 | 1-121-416-00 | 1-121-357-00 | 1-121-417-00 |
| 220                                        | 1-121-419-00 | 1-121-420-00   | 1-121-421-00 | 1-121-422-00 | 1-121-261-00 | 1-121-423-00 |
| 330                                        | 1-121-751-00 | 1-121-805-00   | 1-121-521-00 | 1-121-654-00 | 1-121-655-00 | 1-121-656-00 |
| 470                                        | 1-121-424-00 | 1-121-425-00   | 1-121-426-00 | 1-121-733-00 | 1-121-361-00 | 1-121-810-00 |
| 1000                                       | —            | 1-121-736-00   | 1-121-245-00 | 1-121-657-00 | 1-121-388-00 | 1-123-061-00 |
| 2200                                       | 1-121-658-00 | 1-121-659-00   | 1-121-660-00 | 1-123-067-00 | 1-121-984-00 | —            |
| 3300                                       | 1-121-661-00 | 1-123-075-00   | 1-123-071-00 | —            | —            | —            |

| CAP. (μF) | 100 VOLT.    | 160 VOLT.    | 250 VOLT.    | 350 VOLT.    |
|-----------|--------------|--------------|--------------|--------------|
|           | PART No.     | PART No.     | PART No.     | PART No.     |
| 0.47      | —            | —            | —            | —            |
| 1.0       | 1-123-249-00 | 1-123-252-00 | 1-123-003-00 | 1-121-168-00 |
| 2.2       | 1-123-250-00 | 1-123-026-00 | —            | 1-123-028-00 |
| 3.3       | 1-121-995-00 | —            | 1-123-004-00 | 1-123-006-00 |
| 4.7       | 1-123-255-00 | 1-121-246-00 | 1-121-759-00 | 1-123-007-00 |
| 10        | 1-121-126-00 | 1-121-999-00 | 1-123-254-00 | 1-123-008-00 |
| 22        | 1-121-996-00 | 1-123-253-00 | 1-123-005-00 | 1-123-022-00 |
| 33        | 1-121-997-00 | 1-121-757-00 | —            | —            |
| 47        | 1-123-251-00 | 1-121-919-00 | —            | —            |
| 100       | 1-123-084-00 | —            | —            | —            |

**CERAMIC CAPACITORS**

| RATING    |              |           |              |           |              |           |              |
|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|
| CAP. (pF) | 50 VOLT.     | CAP. (pF) | 50 VOLT.     | CAP. (pF) | 50 VOLT.     | CAP. (μF) | 50 VOLT.     |
|           | PART No.     |           | PART No.     |           | PART No.     |           | PART No.     |
| 0.5       | 1-101-837-00 | 22        | 1-102-959-00 | 150       | 1-101-361-00 | 0.001     | 1-102-074-00 |
| 0.75      | 1-101-586-00 | 24        | 1-102-960-00 | 160       | 1-101-367-00 | 0.0012    | 1-102-118-00 |
| 1.0       | 1-102-934-00 | 27        | 1-102-961-00 | 180       | 1-102-976-00 | 0.0015    | 1-102-119-00 |
| 1.5       | 1-101-576-00 | 30        | 1-102-962-00 | 200       | 1-102-977-00 | 0.0018    | 1-102-120-00 |
| 2.0       | 1-102-935-00 | 33        | 1-102-963-00 | 220       | 1-102-978-00 | 0.0022    | 1-102-121-00 |
| 3         | 1-102-936-00 | 36        | 1-102-964-00 | 240       | 1-102-979-00 | 0.0027    | 1-102-122-00 |
| 4         | 1-102-937-00 | 39        | 1-102-965-00 | 270       | 1-102-980-00 | 0.0033    | 1-102-123-00 |
| 5         | 1-102-942-00 | 43        | 1-102-966-00 | 300       | 1-102-981-00 | 0.0039    | 1-102-124-00 |
| 6         | 1-102-943-00 | 47        | 1-101-880-00 | 330       | 1-102-820-00 | 0.0047    | 1-102-125-00 |
| 7         | 1-102-944-00 | 51        | 1-101-882-00 | 360       | 1-102-821-00 | 0.0056    | 1-102-126-00 |
| 8         | 1-102-945-00 | 56        | 1-101-884-00 | 390       | 1-102-822-00 | 0.0068    | 1-102-127-00 |
| 9         | 1-102-946-00 | 62        | 1-101-886-00 | 430       | 1-102-823-00 | 0.0082    | 1-102-128-00 |
| 10        | 1-102-947-00 | 68        | 1-101-888-00 | 470       | 1-102-824-00 | 0.01      | 1-102-129-00 |
| 11        | 1-102-948-00 | 75        | 1-101-890-00 | 510       | 1-101-059-00 | 0.022     | 1-101-005-00 |
| 12        | 1-102-949-00 | 82        | 1-102-971-00 | 560       | 1-102-115-00 | 0.047     | 1-101-006-00 |
| 13        | 1-102-950-00 | 91        | 1-102-972-00 | 680       | 1-102-116-00 |           |              |
| 15        | 1-102-951-00 | 100       | 1-102-973-00 | 820       | 1-102-117-00 |           |              |
| 16        | 1-102-952-00 | 110       | 1-102-815-00 |           |              |           |              |
| 18        | 1-102-953-00 | 120       | 1-102-816-00 |           |              |           |              |
| 20        | 1-102-958-00 | 130       | 1-101-081-00 |           |              |           |              |

0.001μF = 1,000pF

**CERAMIC (SEMICONDUCTOR) CAPACITORS**

| RATING → : Use the high voltage rated one. |              |              |           |              |              |
|--------------------------------------------|--------------|--------------|-----------|--------------|--------------|
| CAP. (μF)                                  | 25 VOLT.     | 50 VOLT.     | CAP. (μF) | 25 VOLT.     | 50 VOLT.     |
|                                            | PART No.     | PART No.     |           | PART No.     | PART No.     |
| 0.001                                      | →            | 1-161-039-00 | 0.018     | 1-161-016-00 | 1-161-054-00 |
| 0.0012                                     | →            | 1-161-040-00 | 0.022     | 1-161-017-00 | 1-161-055-00 |
| 0.0015                                     |              | 1-161-041-00 | 0.027     | 1-161-018-00 | 1-161-056-00 |
| 0.0018                                     |              | 1-161-042-00 | 0.033     | 1-161-019-00 | 1-161-057-00 |
| 0.0022                                     |              | 1-161-043-00 | 0.039     | 1-161-010-00 | 1-161-058-00 |
| 0.0027                                     | →            | 1-161-044-00 | 0.047     | 1-161-021-00 | 1-161-059-00 |
| 0.0033                                     | →            | 1-161-045-00 | 0.056     | →            | 1-161-060-00 |
| 0.0039                                     | →            | 1-161-046-00 | 0.068     | →            | 1-161-061-00 |
| 0.0047                                     | →            | 1-161-047-00 | 0.082     | 1-161-024-00 | 1-161-062-00 |
| 0.0056                                     | →            | 1-161-048-00 | 0.1       | 1-161-025-00 | 1-161-063-00 |
| 0.0068                                     | →            | 1-161-049-00 |           |              |              |
| 0.0082                                     | 1-161-012-00 | 1-161-050-00 |           |              |              |
| 0.01                                       | 1-161-013-00 | 1-161-051-00 |           |              |              |
| 0.012                                      | →            | 1-161-052-00 |           |              |              |
| 0.015                                      | 1-161-015-00 | 1-161-053-00 |           |              |              |

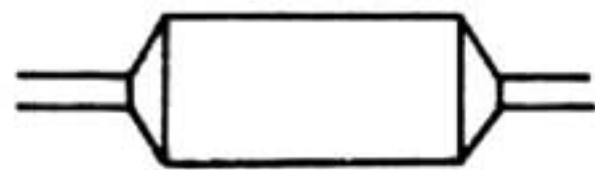
MYLAR CAPACITORS

| RATING    |              |              |              |           |              |              |              |           |              |              |              |
|-----------|--------------|--------------|--------------|-----------|--------------|--------------|--------------|-----------|--------------|--------------|--------------|
| CAP. (μF) | 50 VOLT.     | 100 VOLT.    | 200 VOLT.    | CAP. (μF) | 50 VOLT.     | 100 VOLT.    | 200 VOLT.    | CAP. (μF) | 50 VOLT.     | 100 VOLT.    | 200 VOLT.    |
|           | PART No.     | PART No.     | PART No.     |           | PART No.     | PART No.     | PART No.     |           | PART No.     | PART No.     | PART No.     |
| 0.001     | 1-108-227-00 | 1-108-365-00 | 1-108-409-00 | 0.01      | 1-108-239-00 | 1-108-377-00 | 1-108-421-00 | 0.1       | 1-108-251-00 | 1-108-389-00 | 1-108-433-00 |
| 0.0012    | 1-108-351-00 | 1-108-366-00 | 1-108-410-00 | 0.012     | 1-108-357-00 | 1-108-378-00 | 1-108-422-00 | 0.12      | 1-108-363-00 | 1-108-390-00 | 1-108-434-00 |
| 0.0015    | 1-108-228-00 | 1-108-367-00 | 1-108-411-00 | 0.015     | 1-108-240-00 | 1-108-379-00 | 1-108-423-00 | 0.15      | 1-108-252-00 | 1-108-391-00 | 1-108-435-00 |
| 0.0018    | 1-108-352-00 | 1-108-368-00 | 1-108-412-00 | 0.018     | 1-108-358-00 | 1-108-380-00 | 1-108-424-00 | 0.18      | 1-108-364-00 | 1-108-392-00 | 1-108-436-00 |
| 0.0022    | 1-108-230-00 | 1-108-369-00 | 1-108-413-00 | 0.022     | 1-108-242-00 | 1-108-381-00 | 1-108-425-00 | 0.22      | 1-108-254-00 | 1-108-393-00 | 1-108-437-00 |
| 0.0027    | 1-108-353-00 | 1-108-370-00 | 1-108-414-00 | 0.027     | 1-108-359-00 | 1-108-382-00 | 1-108-426-00 | 0.27      | 1-108-854-00 | —            | —            |
| 0.0033    | 1-108-232-00 | 1-108-371-00 | 1-108-415-00 | 0.033     | 1-108-244-00 | 1-108-383-00 | 1-108-427-00 | 0.33      | 1-108-855-00 | —            | —            |
| 0.0039    | 1-108-354-00 | 1-108-372-00 | 1-108-416-00 | 0.039     | 1-108-360-00 | 1-108-384-00 | 1-108-428-00 | 0.39      | 1-108-856-00 | —            | —            |
| 0.0047    | 1-108-234-00 | 1-108-373-00 | 1-108-417-00 | 0.047     | 1-108-246-00 | 1-108-385-00 | 1-108-429-00 | 0.47      | 1-108-857-00 | —            | —            |
| 0.0056    | 1-108-355-00 | 1-108-374-00 | 1-108-418-00 | 0.056     | 1-108-361-00 | 1-108-386-00 | 1-108-430-00 |           |              |              |              |
| 0.0068    | 1-108-237-00 | 1-108-375-00 | 1-108-419-00 | 0.068     | 1-108-249-00 | 1-108-387-00 | 1-108-431-00 |           |              |              |              |
| 0.0082    | 1-108-356-00 | 1-108-376-00 | 1-108-420-00 | 0.082     | 1-108-362-00 | 1-108-388-00 | 1-108-432-00 |           |              |              |              |



TANTALUM CAPACITORS

| RATING → : Use the high voltage rated one. |              |              |              |              |              |              |              |
|--------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CAP. (μF)                                  | 3.15 VOLT.   | 6.3 VOLT.    | 10 VOLT.     | 16 VOLT.     | 20 VOLT.     | 25 VOLT.     | 35 VOLT.     |
|                                            | PART No.     | PART No.     | PART No.     | PART No.     | PART No.     | PART No.     | PART No.     |
| 0.01                                       |              |              |              |              | →            | →            | 1-131-396-00 |
| 0.015                                      |              |              |              |              |              | →            | 1-131-397-00 |
| 0.022                                      |              |              |              |              |              | →            | 1-131-398-00 |
| 0.033                                      |              |              |              |              |              | →            | 1-131-399-00 |
| 0.047                                      |              |              |              |              |              | →            | 1-131-400-00 |
| 0.068                                      |              |              |              |              | →            | →            | 1-131-401-00 |
| 0.1                                        |              |              |              |              | →            | →            | 1-131-402-00 |
| 0.15                                       |              |              |              |              | →            | →            | 1-131-403-00 |
| 0.22                                       |              |              |              |              | →            | →            | 1-131-404-00 |
| 0.33                                       |              |              |              |              | →            | 1-131-409-00 | 1-131-405-00 |
| 0.47                                       | —            | —            | —            | —            | 1-131-412-00 | →            | 1-131-406-00 |
| 0.68                                       | —            | —            | —            | 1-131-415-00 | →            | 1-131-410-00 | 1-131-407-00 |
| 1.0                                        | —            | —            | 1-131-418-00 | —            | 1-131-413-00 | →            | 1-131-408-00 |
| 1.5                                        | —            | 1-131-421-00 | —            | 1-131-416-00 | →            | 1-131-411-00 | 1-131-348-00 |
| 2.2                                        | 1-131-424-00 | —            | 1-131-419-00 | —            | 1-131-414-00 | 1-131-355-00 | 1-131-349-00 |
| 3.3                                        | —            | 1-131-422-00 | —            | 1-131-417-00 | 1-131-362-00 | 1-131-356-00 | 1-131-350-00 |
| 4.7                                        | 1-131-425-00 | —            | 1-131-420-00 | 1-131-369-00 | 1-131-363-00 | 1-131-357-00 | 1-131-351-00 |
| 6.8                                        | —            | 1-131-423-00 | 1-131-376-00 | 1-131-370-00 | 1-131-364-00 | 1-131-358-00 | 1-131-352-00 |
| 10                                         | 1-131-426-00 | 1-131-383-00 | 1-131-377-00 | 1-131-371-00 | 1-131-365-00 | 1-131-359-00 | 1-131-353-00 |
| 15                                         | 1-131-390-00 | 1-131-384-00 | 1-131-378-00 | 1-131-372-00 | 1-131-366-00 | 1-131-360-00 | —            |
| 22                                         | 1-131-391-00 | 1-131-385-00 | 1-131-379-00 | 1-131-373-00 | 1-131-367-00 |              |              |
| 33                                         | 1-131-392-00 | 1-131-386-00 | 1-131-380-00 | 1-131-374-00 |              |              |              |
| 47                                         | 1-131-393-00 | 1-131-387-00 | 1-131-381-00 | —            |              |              |              |
| 68                                         | 1-131-394-00 | 1-131-388-00 | —            | —            |              |              |              |
| 100                                        | 1-131-395-00 | —            | —            | —            |              |              |              |



TANTALUM CAPACITORS

| RATING    |              |              |              |              |              |              |
|-----------|--------------|--------------|--------------|--------------|--------------|--------------|
| CAP. (μF) | 3 VOLT.      | 6.3 VOLT.    | 10 VOLT.     | 16 VOLT.     | 20 VOLT.     | 35 VOLT.     |
|           | PART No.     | PART No.     | PART No.     | PART No.     | PART No.     | PART No.     |
| 0.033     |              |              |              |              |              | 1-131-273-00 |
| 0.047     |              |              |              |              |              | 1-131-274-00 |
| 0.068     |              |              |              |              |              | 1-131-275-00 |
| 0.1       |              |              |              |              |              | 1-131-276-00 |
| 0.15      |              |              |              |              |              | 1-131-277-00 |
| 0.22      |              |              | —            | —            | 1-131-262-00 | 1-131-278-00 |
| 0.33      |              |              | —            | —            | 1-131-263-00 | 1-131-279-00 |
| 0.47      |              |              | 1-131-169-00 | —            | 1-131-264-00 | 1-131-280-00 |
| 0.68      |              |              | —            | 1-131-258-00 | 1-131-265-00 | 1-131-281-00 |
| 1.0       |              |              | 1-131-254-00 | —            | 1-131-266-00 | 1-131-282-00 |
| 1.5       |              | 1-131-250-00 | —            | —            | 1-131-267-00 | 1-131-283-00 |
| 2.2       |              | —            | —            | 1-131-259-00 | 1-131-268-00 | 1-131-284-00 |
| 3.3       |              | —            | 1-131-255-00 | —            | 1-131-269-00 | —            |
| 4.7       |              | 1-131-251-00 | 1-131-171-00 | —            | 1-131-270-00 | —            |
| 6.8       |              | —            | —            | 1-131-260-00 | 1-131-271-00 | —            |
| 10        | —            | —            | 1-131-256-00 | —            | 1-131-272-00 | —            |
| 15        | —            | 1-131-252-00 | —            | 1-131-261-00 |              |              |
| 22        | —            | —            | 1-131-257-00 | —            |              |              |
| 33        | 1-131-176-00 | 1-131-253-00 | 1-131-173-00 | —            |              |              |
| 47        | 1-131-288-00 | 1-131-174-00 | —            | —            |              |              |
| 100       | 1-131-177-00 |              |              |              |              |              |

**1/16 WATT CARBON RESISTOR**

| $\Omega$ | Part No. | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     |
|----------|----------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
| 2.0      | —        | 13       | —            | 91       | 1-210-354-00 | 620      | 1-210-367-00 | 4.3k     | 1-209-772-00 | 30k      | 1-210-380-00 | 200k     | 1-210-839-00 |
| 2.2      | —        | 15       | —            | 100      | 1-210-355-00 | 680      | 1-210-106-00 | 4.7k     | 1-209-773-00 | 33k      | 1-210-381-00 | 220k     | 1-210-840-00 |
| 2.4      | —        | 16       | —            | 110      | 1-210-356-00 | 750      | 1-210-107-00 | 5.1k     | 1-209-774-00 | 36k      | 1-210-394-00 | 240k     | —            |
| 2.7      | —        | 18       | 1-211-688-00 | 120      | 1-210-357-00 | 820      | 1-210-108-00 | 5.6k     | 1-209-775-00 | 39k      | 1-210-382-00 | 270k     | 1-210-841-00 |
| 3.0      | —        | 20       | —            | 130      | 1-210-358-00 | 910      | 1-210-368-00 | 6.2k     | 1-209-776-00 | 43k      | 1-210-383-00 | 300k     | —            |
| 3.3      | —        | 22       | —            | 150      | 1-210-102-00 | 1.0k     | 1-204-122-00 | 6.8k     | 1-209-777-00 | 47k      | 1-210-384-00 | 330k     | 1-210-842-00 |
| 3.6      | —        | 24       | —            | 160      | 1-210-359-00 | 1.1k     | 1-210-369-00 | 7.5k     | 1-209-778-00 | 51k      | 1-210-385-00 | 360k     | —            |
| 3.9      | —        | 27       | —            | 180      | 1-210-360-00 | 1.2k     | 1-209-765-00 | 8.2k     | 1-209-779-00 | 56k      | 1-210-386-00 | 390k     | 1-210-843-00 |
| 4.3      | —        | 30       | 1-210-845-00 | 200      | 1-210-361-00 | 1.3k     | 1-210-370-00 | 9.1k     | 1-209-780-00 | 62k      | 1-210-387-00 | 430k     | —            |
| 4.7      | —        | 33       | 1-210-846-00 | 220      | 1-210-362-00 | 1.5k     | 1-209-766-00 | 10k      | 1-209-781-00 | 68k      | 1-210-388-00 | 470k     | 1-210-844-00 |
| 5.1      | —        | 36       | 1-210-847-00 | 240      | 1-209-762-00 | 1.6k     | 1-210-371-00 | 11k      | 1-210-374-00 | 75k      | 1-210-389-00 | 510k     | —            |
| 5.6      | —        | 39       | 1-210-848-00 | 270      | 1-210-363-00 | 1.8k     | 1-209-878-00 | 12k      | 1-210-111-00 | 82k      | 1-210-390-00 | 560k     | 1-211-695-00 |
| 6.2      | —        | 43       | 1-210-849-00 | 300      | 1-210-364-00 | 2.0k     | 1-209-767-00 | 13k      | 1-210-375-00 | 91k      | 1-210-391-00 | 620k     | —            |
| 6.8      | —        | 47       | 1-210-395-00 | 330      | 1-209-763-00 | 2.2k     | 1-209-768-00 | 15k      | 1-210-112-00 | 100k     | 1-210-115-00 | 680k     | 1-211-696-00 |
| 7.5      | —        | 51       | 1-210-101-00 | 360      | 1-210-103-00 | 2.4k     | 1-209-769-00 | 16k      | 1-210-376-00 | 110k     | —            | 750k     | —            |
| 8.2      | —        | 56       | 1-210-351-00 | 390      | 1-210-365-00 | 2.7k     | 1-209-770-00 | 18k      | 1-210-113-00 | 120k     | 1-210-836-00 | 820k     | 1-211-698-00 |
| 9.1      | —        | 62       | 1-210-352-00 | 430      | 1-210-366-00 | 3.0k     | 1-210-372-00 | 20k      | 1-210-377-00 | 130k     | —            | 910k     | —            |
| 10       | —        | 68       | 1-210-353-00 | 470      | 1-209-764-00 | 3.3k     | 1-204-123-00 | 22k      | 1-210-114-00 | 150k     | 1-210-837-00 | 1 M      | —            |
| 11       | —        | 75       | 1-210-392-00 | 510      | 1-210-104-00 | 3.6k     | 1-210-373-00 | 24k      | 1-210-378-00 | 160k     | —            |          |              |
| 12       | —        | 82       | 1-210-393-00 | 560      | 1-210-105-00 | 3.9k     | 1-209-771-00 | 27k      | 1-210-379-00 | 180k     | 1-210-838-00 |          |              |

**1/8 WATT CARBON RESISTOR**

| $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     |
|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
| 2.0      | —            | 13       | 1-246-821-00 | 91       | 1-246-831-00 | 620      | 1-246-841-00 | 4.3k     | 1-246-851-00 | 30k      | 1-246-861-00 | 200k     | 1-246-871-00 |
| 2.2      | 1-246-751-00 | 15       | 1-246-761-00 | 100      | 1-246-771-00 | 680      | 1-246-781-00 | 4.7k     | 1-246-791-00 | 33k      | 1-246-801-00 | 220k     | 1-246-811-00 |
| 2.4      | —            | 16       | 1-246-822-00 | 110      | 1-246-832-00 | 750      | 1-246-842-00 | 5.1k     | 1-246-852-00 | 36k      | 1-246-862-00 | 240k     | 1-247-054-00 |
| 2.7      | 1-246-752-00 | 18       | 1-246-762-00 | 120      | 1-246-772-00 | 820      | 1-246-782-00 | 5.6k     | 1-246-792-00 | 39k      | 1-246-802-00 | 270k     | 1-247-046-00 |
| 3.0      | —            | 20       | 1-246-823-00 | 130      | 1-246-833-33 | 910      | 1-246-843-00 | 6.2k     | 1-246-853-00 | 43k      | 1-246-863-00 | 300k     | 1-247-055-00 |
| 3.3      | 1-246-753-00 | 22       | 1-246-763-00 | 150      | 1-246-773-00 | 1.0k     | 1-246-783-00 | 6.8k     | 1-246-793-00 | 47k      | 1-246-803-00 | 330k     | 1-247-047-00 |
| 3.6      | —            | 24       | 1-246-824-00 | 160      | 1-246-834-00 | 1.1k     | 1-246-844-00 | 7.5k     | 1-246-854-00 | 51k      | 1-246-864-00 | 360k     | 1-247-056-00 |
| 3.9      | 1-246-754-00 | 27       | 1-246-764-00 | 180      | 1-246-774-00 | 1.2k     | 1-246-784-00 | 8.2k     | 1-246-794-00 | 56k      | 1-246-804-00 | 390k     | 1-247-048-00 |
| 4.3      | —            | 30       | 1-246-825-00 | 200      | 1-246-835-00 | 1.3k     | 1-246-845-00 | 9.1k     | 1-246-855-00 | 62k      | 1-246-865-00 | 430k     | 1-247-057-00 |
| 4.7      | 1-246-755-00 | 33       | 1-246-765-00 | 220      | 1-246-775-00 | 1.5k     | 1-246-785-00 | 10k      | 1-246-795-00 | 68k      | 1-246-805-00 | 470k     | 1-247-049-00 |
| 5.1      | —            | 36       | 1-246-826-00 | 240      | 1-246-836-00 | 1.6k     | 1-246-846-00 | 11k      | 1-246-856-00 | 75k      | 1-246-866-00 | 510k     | 1-247-058-00 |
| 5.6      | 1-246-756-00 | 39       | 1-246-766-00 | 270      | 1-246-776-00 | 1.8k     | 1-246-786-00 | 12k      | 1-246-796-00 | 82k      | 1-246-806-00 | 560k     | 1-247-050-00 |
| 6.2      | —            | 43       | 1-246-827-00 | 300      | 1-246-837-00 | 2.0k     | 1-246-847-00 | 13k      | 1-246-857-00 | 91k      | 1-246-867-00 | 620k     | 1-247-059-00 |
| 6.8      | 1-246-757-00 | 47       | 1-246-767-00 | 330      | 1-246-777-00 | 2.2k     | 1-246-787-00 | 15k      | 1-246-797-00 | 100k     | 1-246-807-00 | 680k     | 1-247-051-00 |
| 7.5      | 1-246-818-00 | 51       | 1-246-828-00 | 360      | 1-246-838-00 | 2.4k     | 1-246-848-00 | 16k      | 1-246-858-00 | 110k     | 1-246-868-00 | 750k     | 1-247-060-00 |
| 8.2      | 1-246-758-00 | 56       | 1-246-768-00 | 390      | 1-246-778-00 | 2.7k     | 1-246-788-00 | 18k      | 1-246-798-00 | 120k     | 1-246-808-00 | 820k     | 1-247-052-00 |
| 9.1      | 1-246-819-00 | 62       | 1-246-829-00 | 430      | 1-246-839-00 | 3.0k     | 1-246-849-00 | 20k      | 1-246-859-00 | 130k     | 1-246-869-00 | 910k     | 1-247-061-00 |
| 10       | 1-246-759-00 | 68       | 1-246-769-00 | 470      | 1-246-779-00 | 3.3k     | 1-246-789-00 | 22k      | 1-246-799-00 | 150k     | 1-246-809-00 | 1 M      | 1-247-053-00 |
| 11       | 1-246-820-00 | 75       | 1-246-830-00 | 510      | 1-246-840-00 | 3.6k     | 1-246-850-00 | 24k      | 1-246-860-00 | 160k     | 1-246-870-00 |          |              |
| 12       | 1-246-760-00 | 82       | 1-246-770-00 | 560      | 1-246-780-00 | 3.9k     | 1-246-790-00 | 27k      | 1-246-800-00 | 180k     | 1-246-810-00 |          |              |

1/4 WATT CARBON RESISTORS

| $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     | $\Omega$ | Part No.     |
|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
| 1.0      | 1-246-401-00 | 10       | 1-246-425-00 | 100      | 1-246-449-00 | 1.0k     | 1-246-473-00 | 10k      | 1-246-497-00 | 100k     | 1-246-521-00 | 1.0M     | 1-246-545-00 |
| 1.1      | 1-246-402-00 | 11       | 1-246-426-00 | 110      | 1-246-450-00 | 1.1k     | 1-246-474-00 | 11k      | 1-246-498-00 | 110k     | 1-246-522-00 | 1.1M     | 1-210-814-00 |
| 1.2      | 1-246-403-00 | 12       | 1-246-427-00 | 120      | 1-246-451-00 | 1.2k     | 1-246-475-00 | 12k      | 1-246-499-00 | 120k     | 1-246-523-00 | 1.2M     | 1-210-815-00 |
| 1.3      | 1-246-404-00 | 13       | 1-246-428-00 | 130      | 1-246-452-00 | 1.3k     | 1-246-476-00 | 13k      | 1-246-500-00 | 130k     | 1-246-524-00 | 1.3M     | 1-210-816-00 |
| 1.5      | 1-246-405-00 | 15       | 1-246-429-00 | 150      | 1-246-453-00 | 1.5k     | 1-246-477-00 | 15k      | 1-246-501-00 | 150k     | 1-246-525-00 | 1.5M     | 1-210-817-00 |
| 1.6      | 1-246-406-00 | 16       | 1-246-430-00 | 160      | 1-246-454-00 | 1.6k     | 1-246-478-00 | 16k      | 1-246-502-00 | 160k     | 1-246-526-00 | 1.6M     | 1-210-818-00 |
| 1.8      | 1-246-407-00 | 18       | 1-246-431-00 | 180      | 1-246-455-00 | 1.8k     | 1-246-479-00 | 18k      | 1-246-503-00 | 180k     | 1-246-527-00 | 1.8M     | 1-210-819-00 |
| 2.0      | 1-246-408-00 | 20       | 1-246-432-00 | 200      | 1-246-456-00 | 2.0k     | 1-246-480-00 | 20k      | 1-246-504-00 | 200k     | 1-246-528-00 | 2.0M     | 1-210-820-00 |
| 2.2      | 1-246-409-00 | 22       | 1-246-433-00 | 220      | 1-246-457-00 | 2.2k     | 1-246-481-00 | 22k      | 1-246-505-00 | 220k     | 1-246-529-00 | 2.2M     | 1-210-821-00 |
| 2.4      | 1-246-410-00 | 24       | 1-246-434-00 | 240      | 1-246-458-00 | 2.4k     | 1-246-482-00 | 24k      | 1-246-506-00 | 240k     | 1-246-530-00 | 2.4M     | 1-244-754-00 |
| 2.7      | 1-246-411-00 | 27       | 1-246-435-00 | 270      | 1-246-459-00 | 2.7k     | 1-246-483-00 | 27k      | 1-246-507-00 | 270k     | 1-246-531-00 | 2.7M     | 1-244-755-00 |
| 3.0      | 1-246-412-00 | 30       | 1-246-436-00 | 300      | 1-246-460-00 | 3.0k     | 1-246-484-00 | 30k      | 1-246-508-00 | 300k     | 1-246-532-00 | 3.0M     | 1-244-756-00 |
| 3.3      | 1-246-413-00 | 33       | 1-246-437-00 | 330      | 1-246-461-00 | 3.3k     | 1-246-485-00 | 33k      | 1-246-509-00 | 330k     | 1-246-533-00 | 3.3M     | 1-244-757-00 |
| 3.6      | 1-246-414-00 | 36       | 1-246-438-00 | 360      | 1-246-462-00 | 3.6k     | 1-246-486-00 | 36k      | 1-246-510-00 | 360k     | 1-246-534-00 | 3.6M     | 1-244-758-00 |
| 3.9      | 1-246-415-00 | 39       | 1-246-439-00 | 390      | 1-246-463-00 | 3.9k     | 1-246-487-00 | 39k      | 1-246-511-00 | 390k     | 1-246-535-00 | 3.9M     | 1-244-759-00 |
| 4.3      | 1-246-416-00 | 43       | 1-246-440-00 | 430      | 1-246-464-00 | 4.3k     | 1-246-488-00 | 43k      | 1-246-512-00 | 430k     | 1-246-536-00 | 4.3M     | 1-244-760-00 |
| 4.7      | 1-246-417-00 | 47       | 1-246-441-00 | 470      | 1-246-465-00 | 4.7k     | 1-246-489-00 | 47k      | 1-246-513-00 | 470k     | 1-246-537-00 | 4.7M     | 1-244-761-00 |
| 5.1      | 1-246-418-00 | 51       | 1-246-442-00 | 510      | 1-246-466-00 | 5.1k     | 1-246-490-00 | 51k      | 1-246-514-00 | 510k     | 1-246-538-00 | 5.1M     | 1-244-762-00 |
| 5.6      | 1-246-419-00 | 56       | 1-246-443-00 | 560      | 1-246-467-00 | 5.6k     | 1-246-491-00 | 56k      | 1-246-515-00 | 560k     | 1-246-539-00 |          |              |
| 6.2      | 1-246-420-00 | 62       | 1-246-444-00 | 620      | 1-246-468-00 | 6.2k     | 1-246-492-00 | 62k      | 1-246-516-00 | 620k     | 1-246-540-00 |          |              |
| 6.8      | 1-246-421-00 | 68       | 1-246-445-00 | 680      | 1-246-469-00 | 6.8k     | 1-246-493-00 | 68k      | 1-246-517-00 | 680k     | 1-246-541-00 |          |              |
| 7.5      | 1-246-422-00 | 75       | 1-246-446-00 | 750      | 1-246-470-00 | 7.5k     | 1-246-494-00 | 75k      | 1-246-518-00 | 750k     | 1-246-542-00 |          |              |
| 8.2      | 1-246-423-00 | 82       | 1-246-447-00 | 820      | 1-246-471-00 | 8.2k     | 1-246-495-00 | 82k      | 1-246-519-00 | 820k     | 1-246-543-00 |          |              |
| 9.1      | 1-246-424-00 | 91       | 1-246-448-00 | 910      | 1-246-472-00 | 9.1k     | 1-246-496-00 | 91k      | 1-246-520-00 | 910k     | 1-246-544-00 |          |              |

HARDWARE NOMENCLATURE

Screw:

P 3 x 10

L

D

Type of head

L: Length in mm

D: Diameter in mm

Indicated slotted-head only.

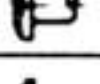
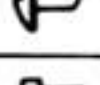
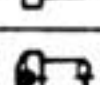
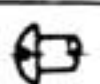
Unless otherwise indicated, it means cross-recessed head (Phillips type).

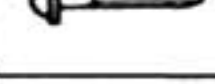
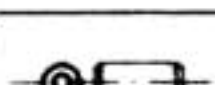
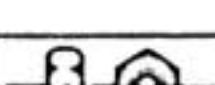
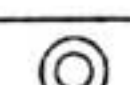
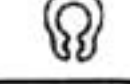
Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation

| Reference Designation | Shape                                                                               | Description                                 | Remarks                                                            |
|-----------------------|-------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------|
| SCREWS                |                                                                                     |                                             |                                                                    |
| P                     |  | pan-head screw                              | binding-head (B) screw for replacement                             |
| PWH                   |  | pan-head screw with washer face             | binding-head (B) screw and flat washer for replacement             |
| PS<br>PSP             |  | pan-head screw with spring washer           | binding-head (B) screw and spring washer for replacement           |
| PSW<br>PSPW           |  | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| R                     |  | round-head screw                            | binding-head (B) screw for replacement                             |
| K                     |  | flat-countersunk-head screw                 |                                                                    |
| RK                    |  | oval-countersunk-head screw                 |                                                                    |
| B                     |  | binding-head screw                          |                                                                    |
| T                     |  | truss-head screw                            | binding-head (B) screw for replacement                             |
| F                     |  | flat-fillister-head screw                   |                                                                    |
| RF                    |  | fillister-head screw                        |                                                                    |
| BV                    |  | braizer-head screw                          |                                                                    |

| Reference Designation | Shape                                                                                 | Description                                    | Remarks                                                                 |
|-----------------------|---------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------|
| SELF-TAPPING SCREWS   |                                                                                       |                                                |                                                                         |
| TA                    |  | self-tapping screw                             | ex: TA, P 3 x 10                                                        |
| PTP                   |  | pan-head self-tapping screw                    | binding-head self-tapping (TA, B) screw for replacement                 |
| PTPWH                 |  | pan-head self-tapping screw with washer face   | binding-head self-tapping (TA, B) screw and flat washer for replacement |
| PTTWH                 |  | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement                  |
| SET SCREWS            |                                                                                       |                                                |                                                                         |
| SC                    |  | set screw                                      |                                                                         |
| SC                    |  | hexagon-socket set screw                       | ex: SC 2.6 x 4, hexagon socket                                          |
| NUT                   |                                                                                       |                                                |                                                                         |
| N                     |  | nut                                            |                                                                         |
| WASHERS               |                                                                                       |                                                |                                                                         |
| W                     |  | flat washer                                    |                                                                         |
| SW                    |  | spring washer                                  |                                                                         |
| LW                    |  | internal-tooth lock washer                     | ex: LW3, internal                                                       |
| LW                    |  | external-tooth lock washer                     | ex: LW3, external                                                       |
| RETAINING RINGS       |                                                                                       |                                                |                                                                         |
| E                     |  | retaining ring                                 |                                                                         |
| G                     |  | grip-type retaining ring                       |                                                                         |

Sony Corporation

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