

# PS-1350/PS-2350

*USA Model* :PS-2350

*UK Model* :PS-1350/2350

*AEP Model* :PS-2350

*E Model* :PS-2350

*Canada Model* :PS-1350

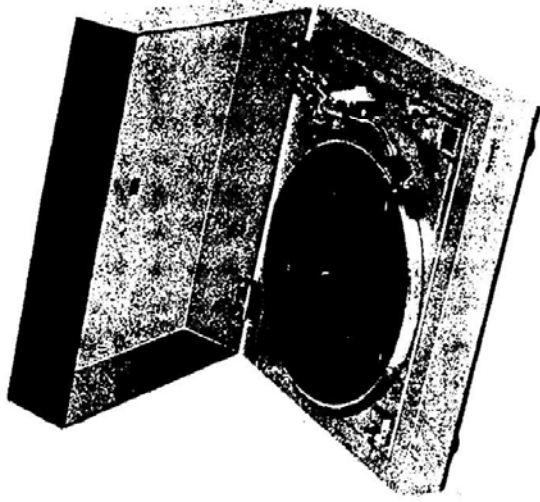


Photo shows PS-2350 (AEP, UK Model)

Distinction of the sets  
PS-2350 has a lateral weight.  
PS-1350 does not.

## TURNTABLE SYSTEM

### SPECIFICATIONS

#### TURNTABLE

**Platter:** 300mm (11<sup>3</sup>/<sub>4</sub> inches), diecast aluminum alloy

**Drive System:** Belt-drive system

**Motor:** 4-pole synchronous

**Speeds:** 33<sup>1</sup>/<sub>3</sub>, 45rpm

**Wow and Flutter:** ±0.08% (DIN)  
0.06% (WRMS)

**S/N Ratio:** 63dB (DIN-B)

**Output Voltage:** 3mV at 1kHz, 5cm/sec.

**Load Impedance:** 50kΩ

**Tracking Force:** 1.5~2.5g (2g)

**Stylus:** Sony ND-134G (Conical 0.5mil diamond)

**Weight:** 5.5g

#### TONARM

**Type:** Statically balanced

**Pivot to Stylus:** 216.6mm (8<sup>9</sup>/<sub>16</sub> inches)

**Overall Arm Length:** 300mm (11<sup>3</sup>/<sub>4</sub> inches)

**Overhang:** 16.5mm (<sup>5</sup>/<sub>8</sub> inches)

**Tracking Force Adjustment Range:** 0~3g

**Shell Weight:** 7.5g

**Cartridge Weight Range:** 4~12.5g

**Power Requirement:** 120V ac, 60Hz (USA, Canada Model)  
110, 127, 220 or 240V ac selectable  
50/60Hz (UK, AEP Model)  
100, 120, 220 or 240V ac selectable  
50Hz (E Model)

#### GENERAL

**Power Consumption:** 18W

**Dimensions:** 450 (w) x 170 (h) x 380 (d) mm  
17<sup>3</sup>/<sub>4</sub> (w) x 6<sup>7</sup>/<sub>16</sub> (h) x 15 (d) inches

**Weight:** PS-2350 (8.4kg 18lb 7oz (net)  
10kg 21lb 15oz (with shipping carton)

PS-1350 (8.7kg 19lb 3oz (net)  
10.5kg 23 lb 2oz (with shipping carton)

#### CARTRIDGE

**Type:** Moving magnet

**Frequency Range:** 10 Hz ~30,000 Hz

**Channel Separation:** 25dB at 1,000 Hz

# SONY®

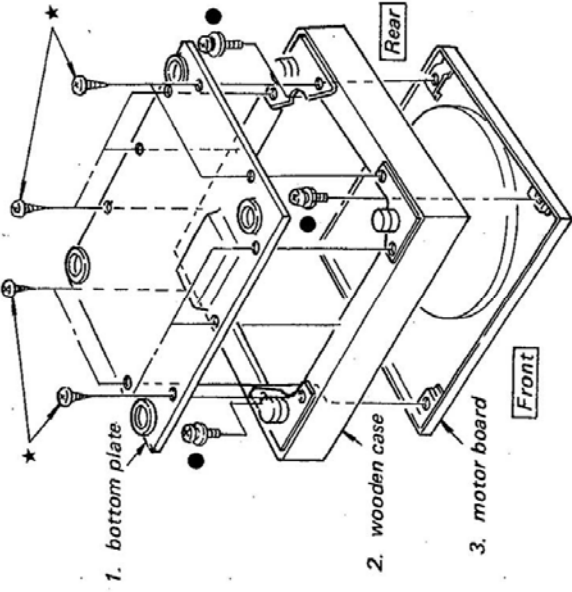
## SERVICE MANUAL

# SECTION 1

## DISASSEMBLY AND REPLACEMENT

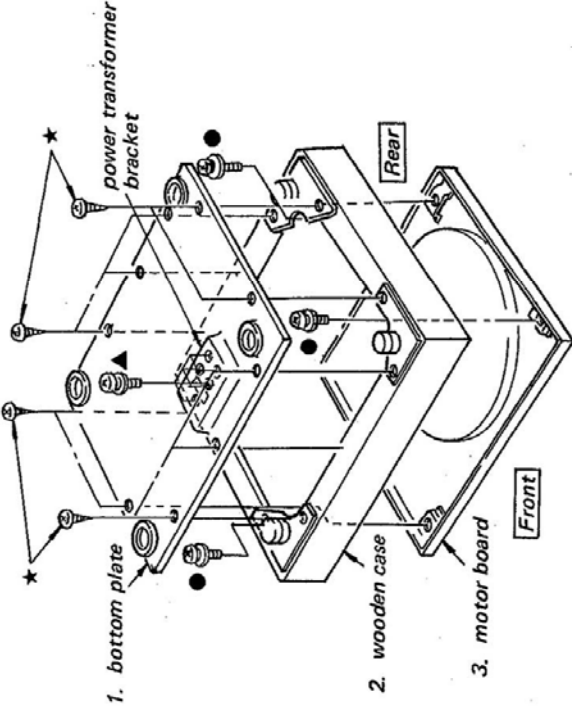
### 1-1. Bottom Plate, Wooden Case and Motor Board Removal

[For USA, Canada, E Model]



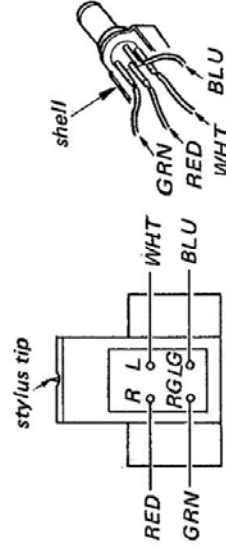
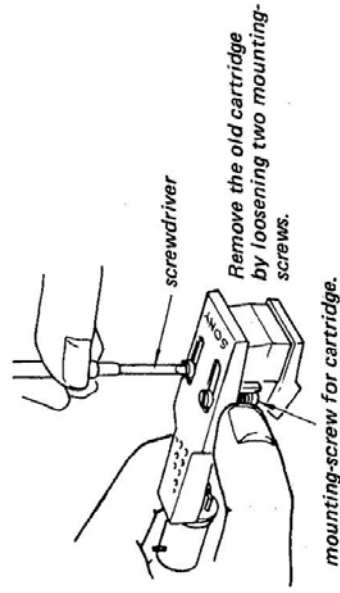
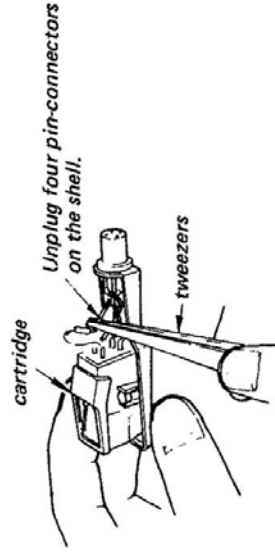
1. Bottom Plate:  
Remove ten screws marked ★ (ø R3.1 x 13, wood).
2. Wooden Case:  
  - ① Remove four screws marked ● (ø PSW 4 x 25).
  - ② Remove each screw (ø R3.1 x 13, wood) for power cord strain relief and phono cord clamp.
3. Motor Board:  
Remove the bottom plate and the wooden case.

[For UK, AEP Model]

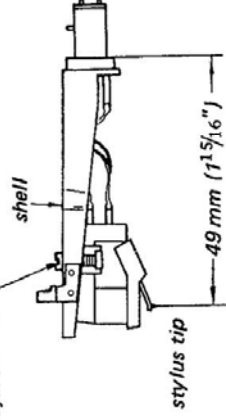


- Note: Unplug the power cord.
1. Bottom Plate:  
    - ① Remove ten screws marked ★ (ø R3.1 x 13, wood).
    - ② Remove five screws marked ▲ (ø PSW 3 x 8).
  2. Wooden Case:  
    - ① Remove four screws marked ● (ø PSW 4 x 25).
    - ② Remove two screws (ø R 3.1 x 13, wood) for phono cord clamp.
  3. Motor Board:  
Remove the bottom plate and the wooden case.

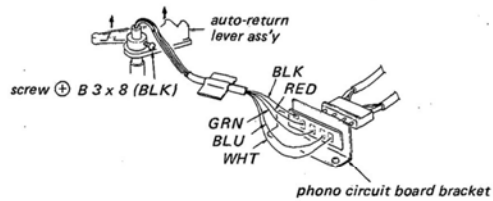
### 1-5. Cartridge Replacement



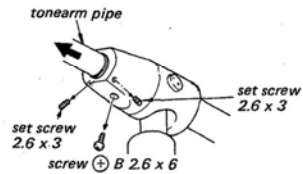
Fasten the screws lightly so that the cartridge can be slid for adjustment.



### 1-2. Tonearm Pipe Replacement



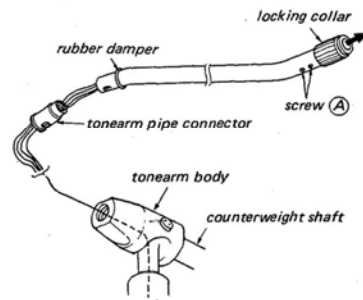
1. Remove the auto-return lever and unsolder five lead wires.
2. Remove the arm lifter.
3. Remove the tonearm pipe shown below.



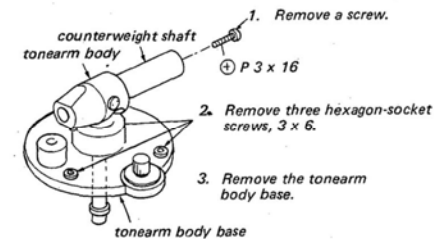
4. Replace the tonearm pipe.

### 1-3. Locking Collar Replacement

1. Remove two screws marked (A).
2. Replace the locking collar.



### 1-4. Tonearm Body Base Removal



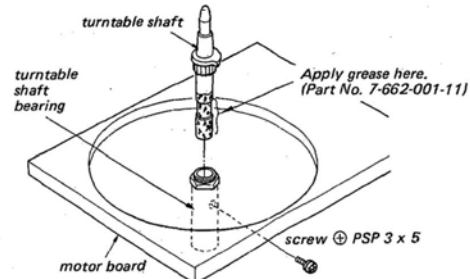
1. Remove a screw.  $\oplus P 3 \times 16$
2. Remove three hexagon-socket screws,  $3 \times 6$ .
3. Remove the tonearm body base.

### [CAUTION]

Do not remove the tonearm body ass'y. The reassembling of tonearm body will result in mechanical troubles.

### 1-6. Turntable Shaft Removal

Pull out the turntable shaft by removing a screw  $\oplus PSP 3 \times 5$ .



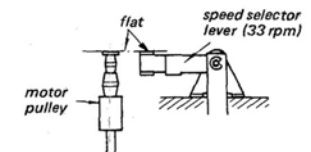
Note: Apply grease on the turntable shaft, when reinstalling it.

### 1-8. Adaptation to Local Line Frequency

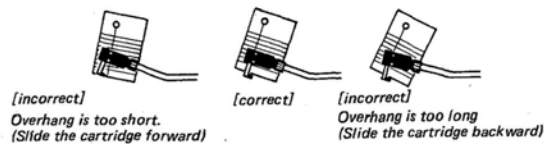
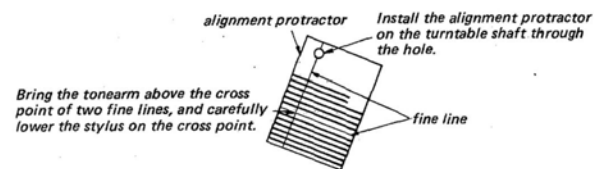
Motor Pulleys	
For 50 Hz	For 60 Hz
[Part No. X-4844-007-1]	[Part No. X-4844-007-2]

#### Procedure:

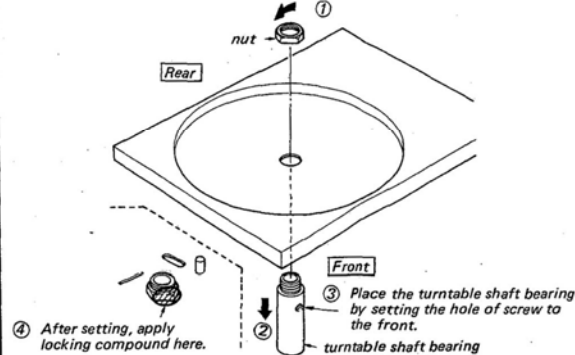
1. Install the replacement pulley, and set the speed selector knob to 33 rpm position.
2. Adjust the height of the motor pulley so that the top of motor pulley is even with the top edge of speed selector lever as shown below.



### [Overhang Adjustment]



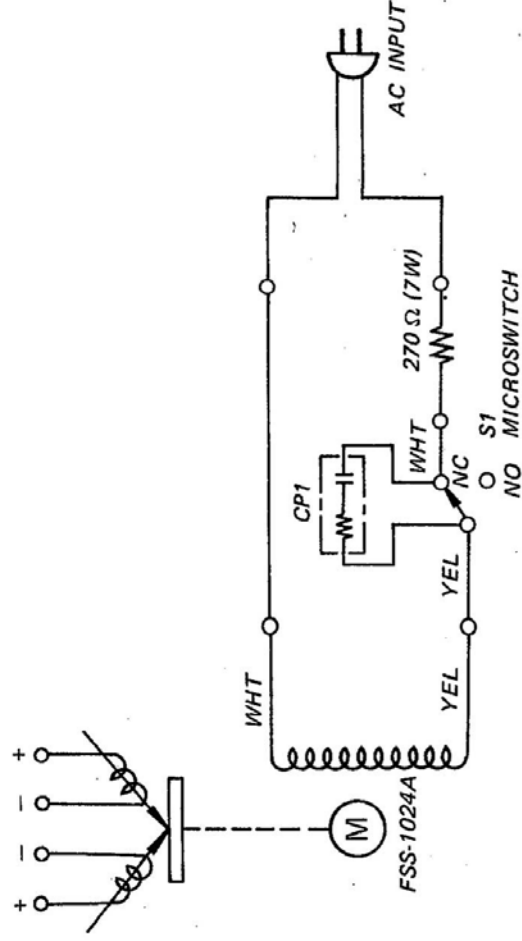
### 1-7. Turntable Shaft Bearing Replacement



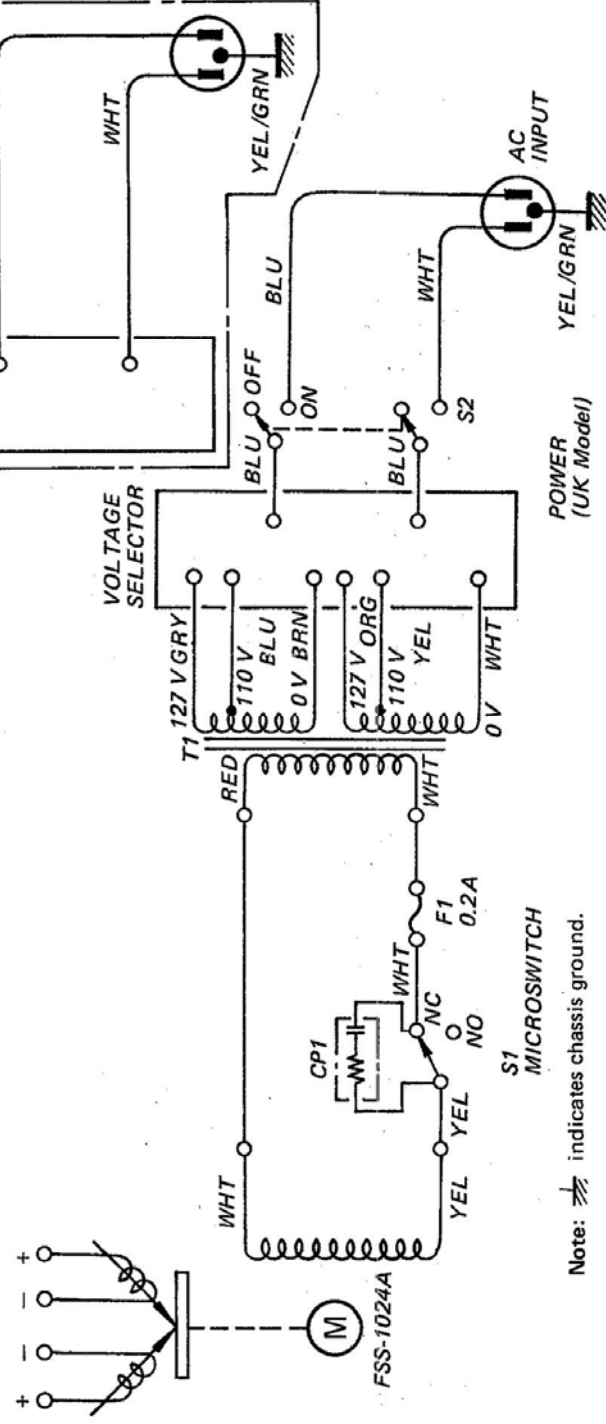
# SECTION 2 DIAGRAMS

## SCHEMATIC DIAGRAM

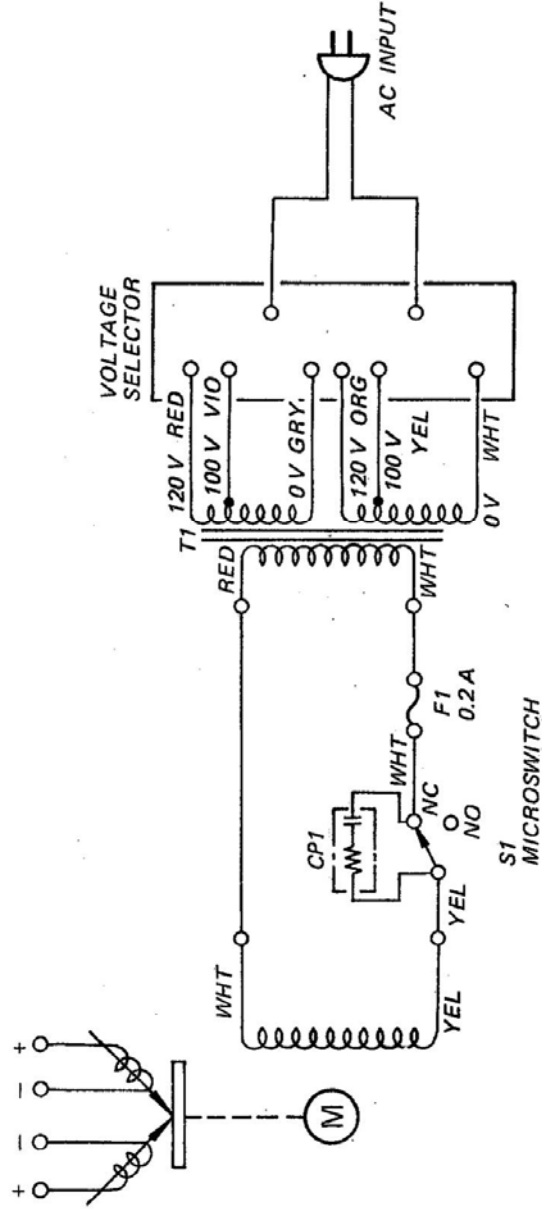
2-1. USA, Canada Model



2-2. UK, AEP Model



2-3. E Model



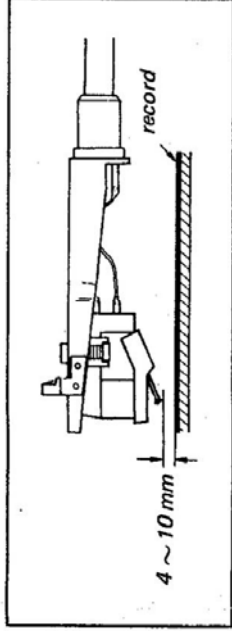
Note: indicates chassis ground.

## SECTION 3 ADJUSTMENTS

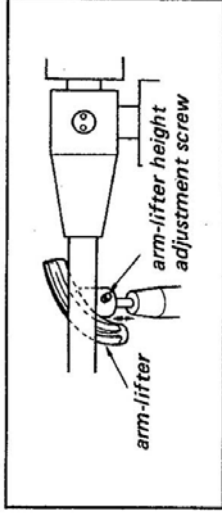
### 3-1. TONEARM HEIGHT ADJUSTMENT

#### At Automatic Return Operation

1. When the tonearm automatically returns to its tonearm rest after playing, check to see that the clearance between the stylus tip and the record on the turntable is 4 to 10 mm as shown below.

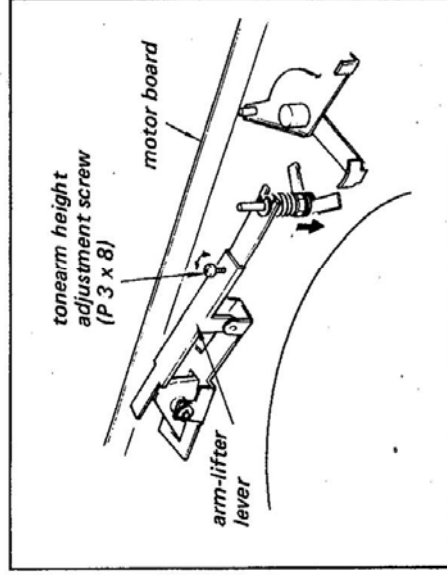


2. If necessary, adjust the height of the arm-lifter by loosening its adjustment screw shown below.



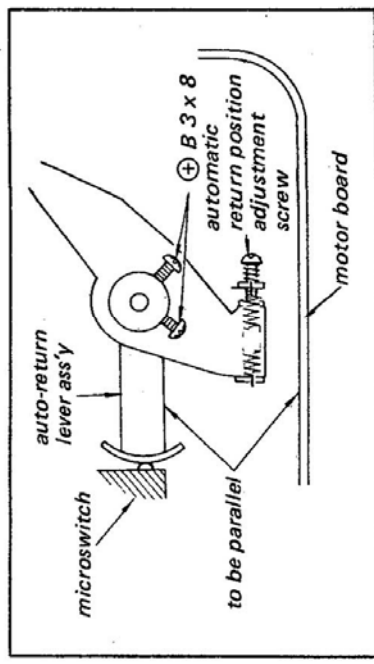
#### At Manual Cueing Operation

1. Set the cueing lever to "I" position.
2. Confirm that the clearance between the stylus tip and the record on the turntable is 4 to 10 mm.
3. If necessary, adjust the height of the tonearm lifting platform by loosening the tonearm height adjustment screw as shown below.



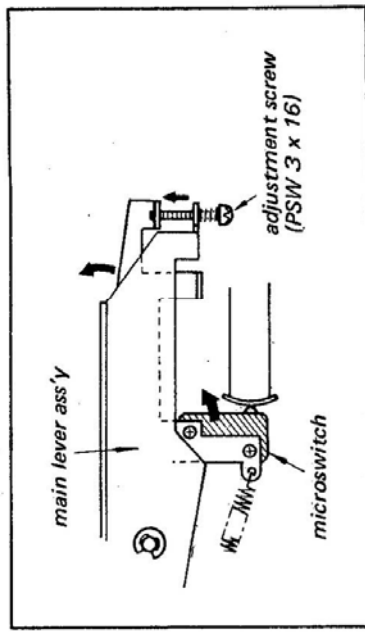
### 3-2. AUTOMATIC RETURN POSITION ADJUSTMENT

1. Remove the tonearm from its rest.
2. Loosen the allen-head screw, and adjust the tonearm lever so that the auto-return lever ass'y is in parallel to the edge of chassis as shown below.
3. The position where the tonearm starts to return can be adjusted by turning the automatic return position adjustment screw shown below. If the automatic return works too early, turn the adjustment screw clockwise — if too late, turn the screw counterclockwise.



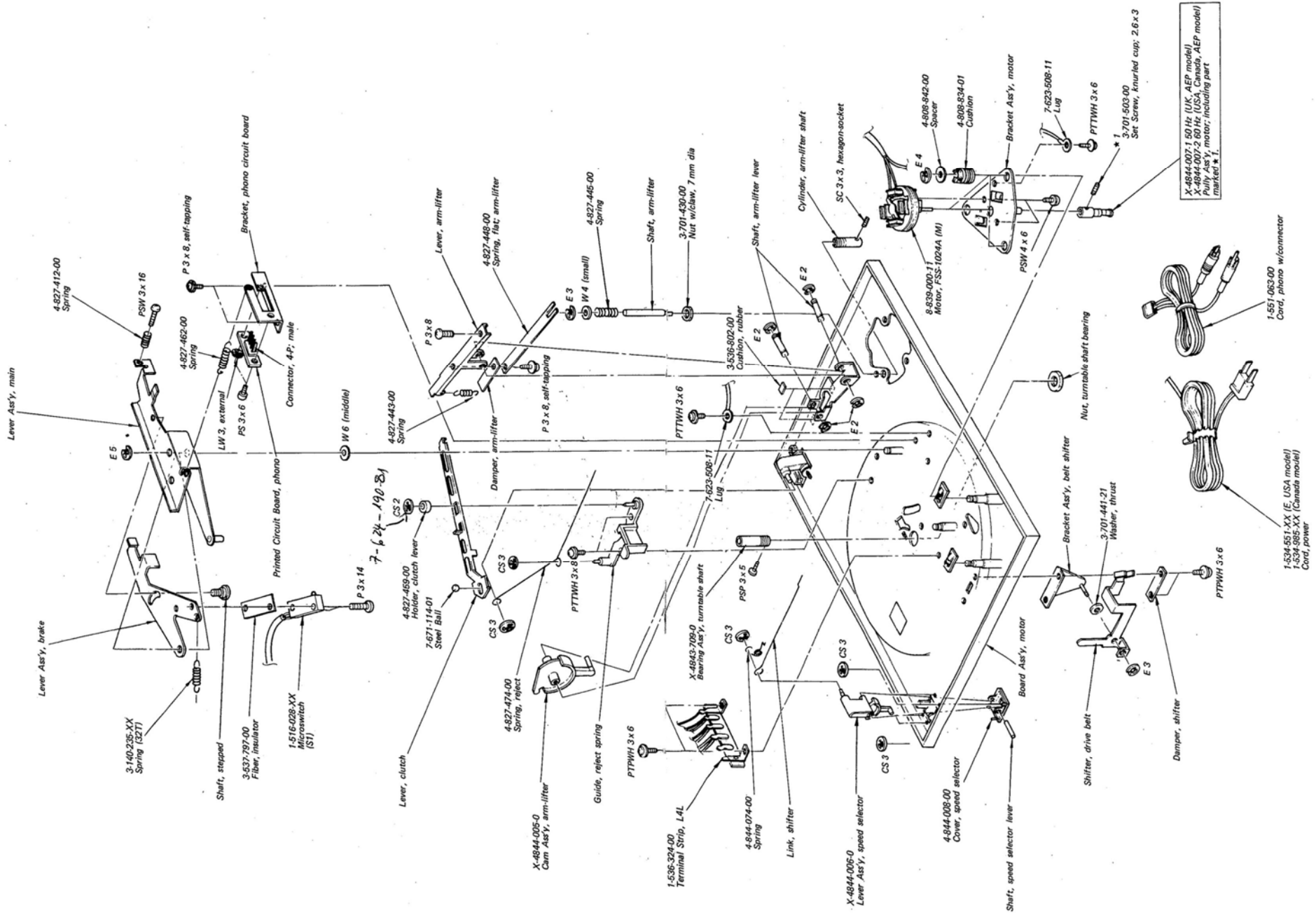
### 3-3. MICROSWITCH POSITION ADJUSTMENT

1. Place the tonearm on the tonearm rest.
2. Set the microswitch to "OFF" by turning the adjustment screw.



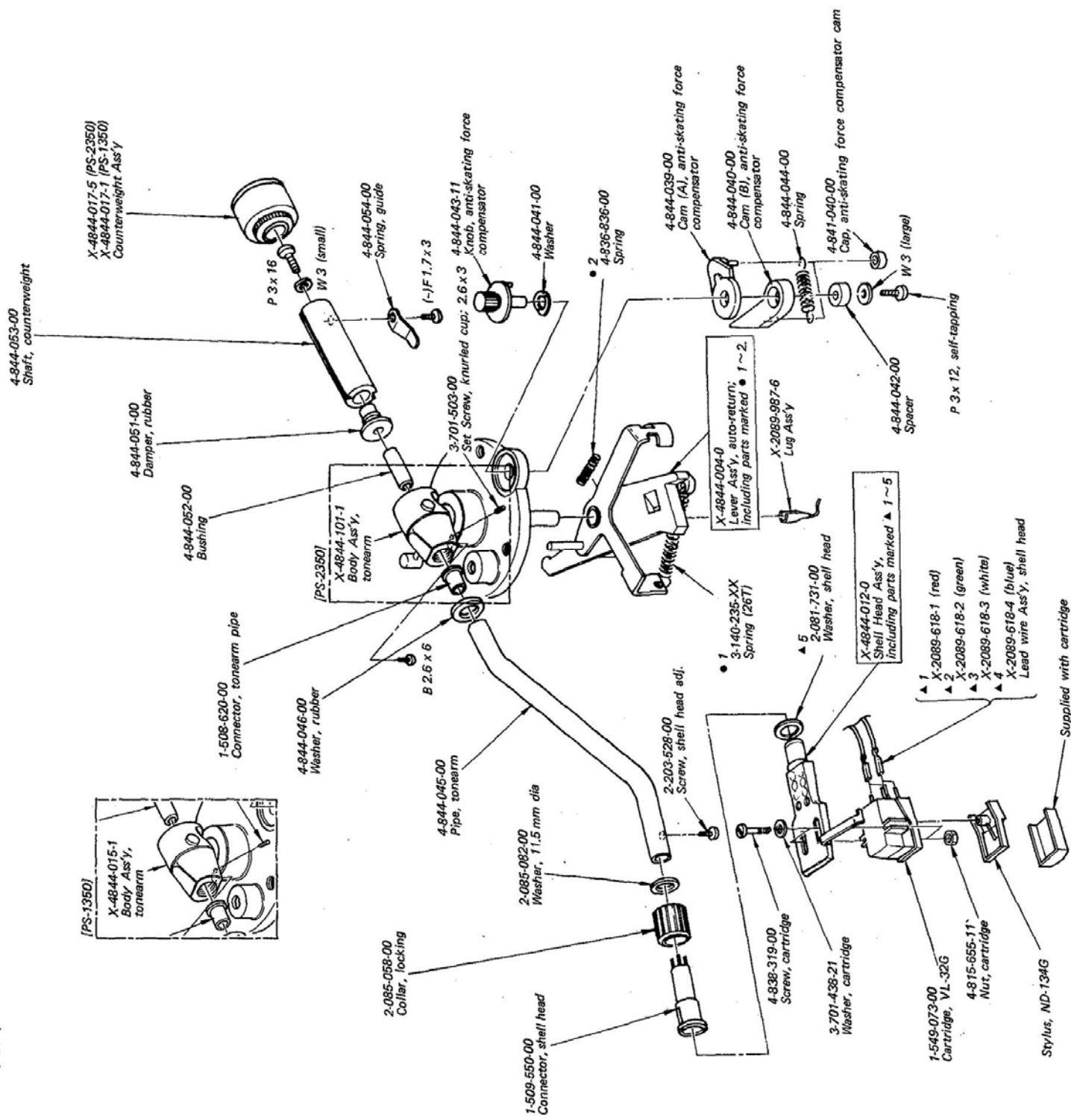
3. When the tonearm is removed from its rest, check to see that the microswitch is "ON".
4. Repeat the above step 2 and 3, if necessary.
5. When the tonearm returns to its rest in automatic return operation, confirm that the microswitch is "OFF".





**Note:**

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (□□□) shows the number of coils in spring.



**Note:**

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (—) = slotted head
- (□□T) shows the number of coils in spring.



## SECTION 5 PARTS LIST

### 5-1. ELECTRICAL PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
CP1	1-101-534-00	Encapsulated Component		1-508-620-00	Connector, tonearm pipe
F1	1-532-074-00	Fuse, 0.2A (UK, AEP, E Model)		1-509-385-00	Voltage Selector (UK, AEP Model)
M	8-839-000-11	Motor, FSS-1024A		1-526-165-21	Voltage Selector (E Model)
SI	1-516-028-XX	Microswitch		1-509-550-00	Connector, shell head
S2	1-516-277-00	Switch, pushbutton; POWER (UK Model)		1-509-547-00	Connector, ac input; 3-p (UK, AEP Model)
	1-442-545-00	Transformer, power (UK, AEP Model)		1-534-551-XX	Cord, power (USA, E Model)
T1	1-442-568-00	Transformer, power (E Model)		1-534-985-XX	Cord, power (Canada Model)
	1-207-944-11	Resistor, wirewound, 270Ω; 7W (USA, Canada Model)		1-536-324-00	Terminal Strip, L4L
				1-549-073-00	Cartridge, VL-32G
				1-551-063-00	Cord, phono; w/connector

### 5-2. ACCESSORIES

<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
1-534-819-00	Cord, power; 3 p (UK Model)	3-793-814-11	Card, caution
2-054-619-00	Washer, cartridge	3-793-815-11	Card, caution
2-056-332-00	Screw, cartridge	3-780-806-11	Manual, instruction (AEP, E Model)
3-701-806-00	Adaptor, manual; 45 rpm	3-780-806-21	Manual, instruction (USA Model)
3-780-805-41	Manual, instruction (UK Model)	3-780-805-31	Manual, instruction (Canada Model)
3-793-395-00	Gauge, overhang adjustment		