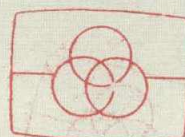


PS-X40

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



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AUTOMATIC STEREO TURNTABLE SYSTEM

SPECIFICATIONS

GENERAL


Power Requirements: 120V ac, 60Hz (US, Canadian model)
240V ac, 50Hz (UK model)
120 V, 220 ac adjustable, 50/60 Hz (AEP, E model)

Power Consumption: 8W

Dimensions: Approx. 445(w) x 145(h) x 400(d) mm
(17½ (w) x 5¾ (h) x 15¾ (d) inches)
including projecting parts and controls

Weight: Approx. 8 kg (17 lb 10 oz), net
Approx. 9.1 kg (20 lb 2 oz), in shipping carton

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 UN TRAMÉ ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLODÉES 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 DES SUPPLÉMENTS PUBLIÉS PAR SONY.

TURNTABLE

Platter: 31.4 cm (12³/₈ inches) dia., aluminum-alloy diecast

Motor: DC servo-controlled linear BSL motor

Drive System: Direct drive, crystal lock control system

Speed: 33¹/₃ rpm, 45 rpm
Starting characteristics
Comes to nominal speed within a half revolution (33¹/₃ rpm)

Wow and Flutter: ± 0.045% (DIN)
0.025% (WRMS)

S/N Ratio: 73 dB (DIN-B)

Initial Drift: Within 0.0003%

Load Characteristics: 0% up to 100 g tracking force

Automatic System: Lead-in, return, reject, repeat

TONEARM

Type: Statically balanced, universal

Pivot-to-stylus Length: 216.5 mm (8½ inches)

Overall Arm Length: 300 mm (11⁷/₈ inches)

Overhang: 16.5 mm (2¹/₃₂ inches)

Tracking Error: +3°, -1°

Tracking Force

Adjustment Range: 0 — 3 g

Shell Weight: 10.5 g

Cartridge Weight Range: 12–19 g (including shell)

SONY®

SERVICE MANUAL

MODEL IDENTIFICATION

— Specification Label —

US, Canadian model

SONY [®]	STEREO TURNTABLE SYSTEM
	MODEL NO,PS-X40
	AC 120V 60Hz 8W
	SERIAL NO. _____
MADE IN JAPAN	

AEP, E model

SONY [®]	STEREO TURNTABLE SYSTEM
	MODEL NO,PS-X40
	~120,220V 50/60Hz 8W
	SERIAL NO. _____
MADE IN JAPAN	



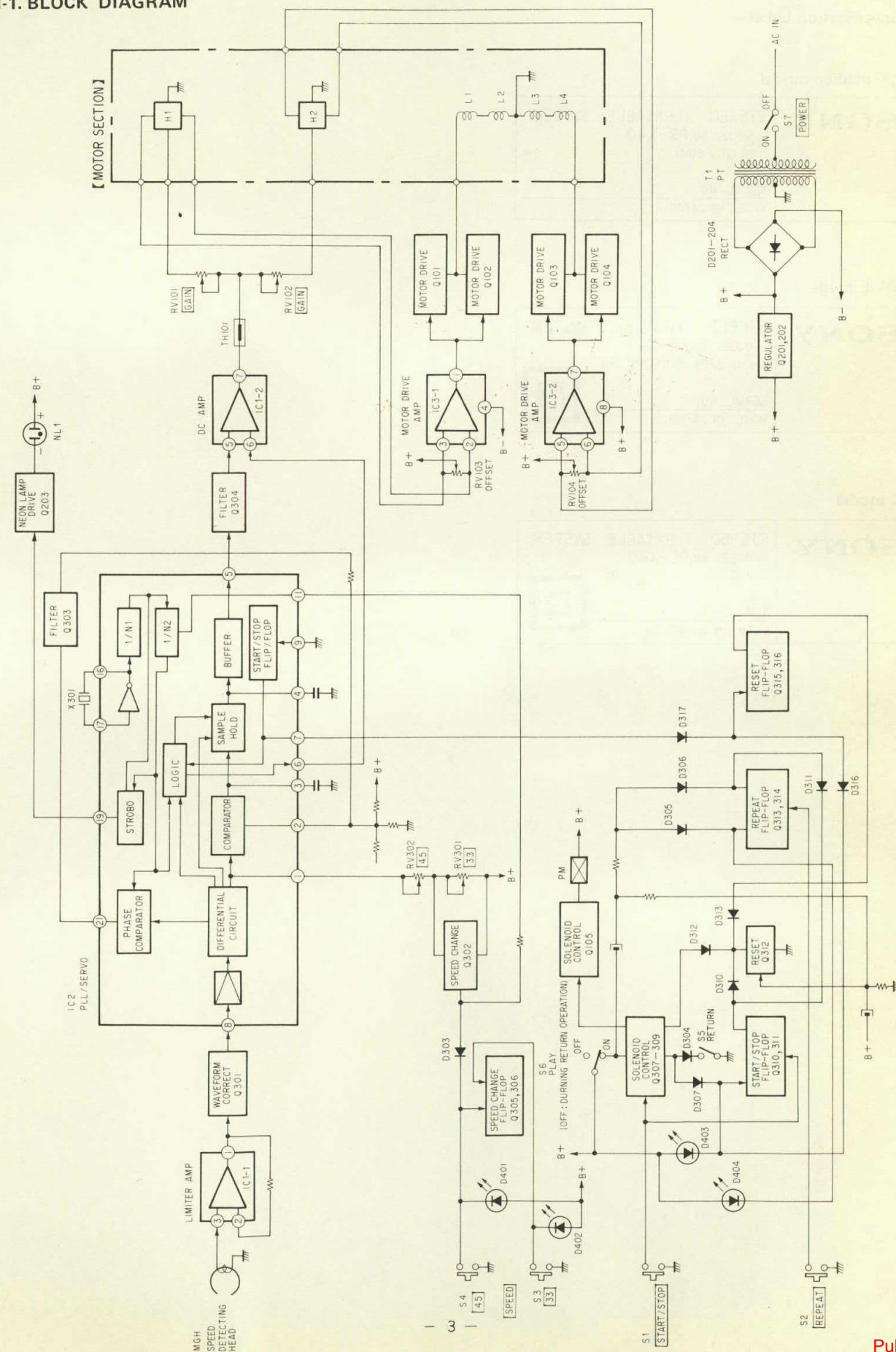
UK model

SONY [®]	STEREO TURNTABLE SYSTEM
	MODEL NO,PS-X40
	~240V 8W
	SERIAL NO. _____
MADE IN JAPAN	



SECTION 2

DISASSEMBLY



- Follow the disassembly or installation procedure in the numerical order given.

Dust Cover and Turntable Removal

The diagram illustrates the process of removing the dust cover and turntable from a turntable assembly. On the left, a pair of hands is shown lifting the dust cover, which is labeled "dust cover". The cover is being lifted away from the turntable assembly. On the right, the turntable assembly is shown with the turntable mat (labeled "1 turntable mat") and the turntable (labeled "2 turntable") being removed. The turntable mat is shown being lifted off the turntable. The turntable is shown being lifted off the turntable assembly. The turntable assembly is shown with the turntable mat and the turntable being removed. The turntable assembly is shown with the turntable mat and the turntable being removed.

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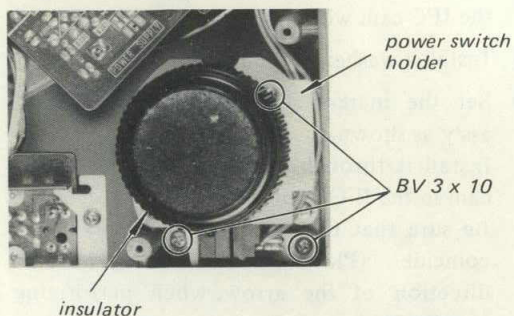
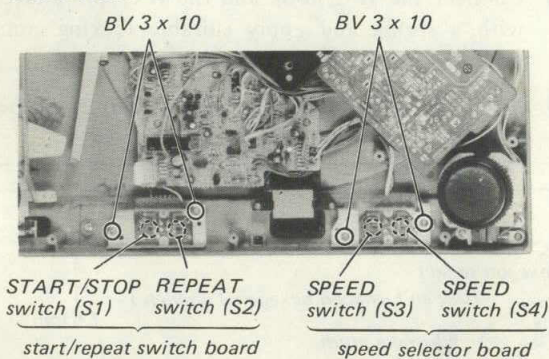
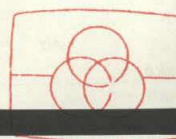
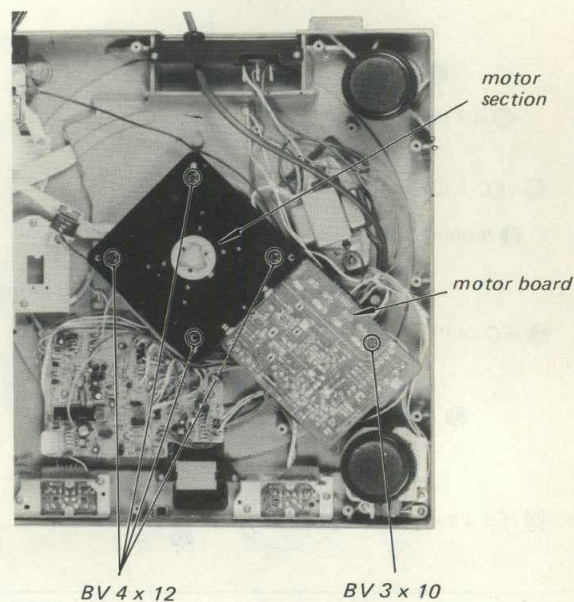
Upper Cover Removal

The diagram shows a Sony CCD camera with its upper cover being removed. The cover is shown in a partially detached state, with two hooks visible on the right side. Arrow 1 points to the right, indicating the direction to unhook the cover. Arrow 2 points upwards, indicating the direction to lift the cover. The labels 'upper cover' and 'hook' are present. The Sony logo is visible on the front of the camera.

1. Press the upper cover in the direction of the arrow ① and unhook the two hooks on the right.
2. Push up the upper cover in the direction of the arrow ②.

Diagram illustrating the removal of the bottom plate. The plate is secured by several screws:

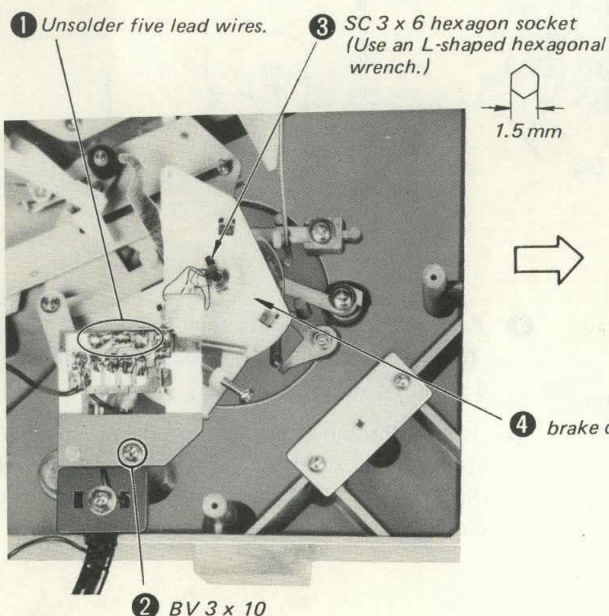
- BV 3 x 12**: Screws at the top and bottom center.
- BV 3 x 14**: Screws at the top corners.
- BV 3 x 10**: Screws along the sides.

POWER Switch (S7) Removal**Start/Repeat Switch Board and Speed Selector Board Removal****Motor and Motor Section Removal**

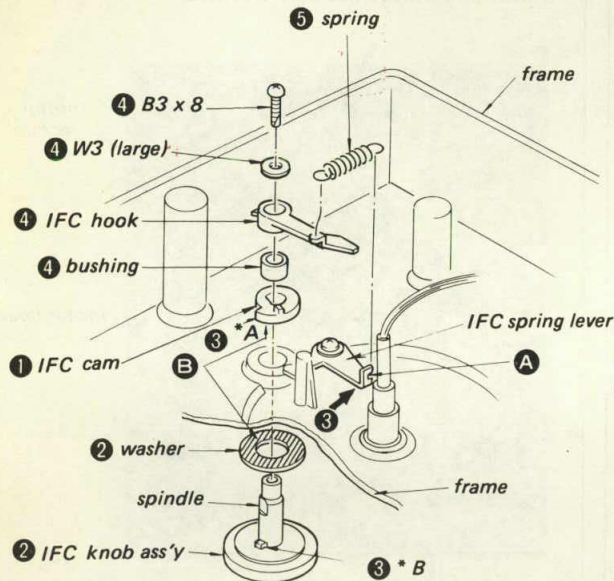
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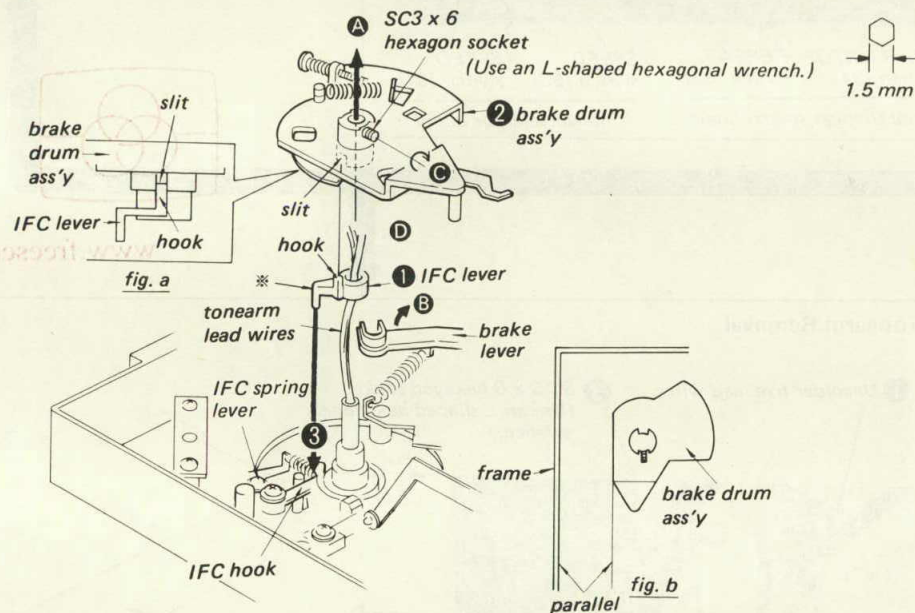
Tonearm Removal

IFC Knob Assembly Installation



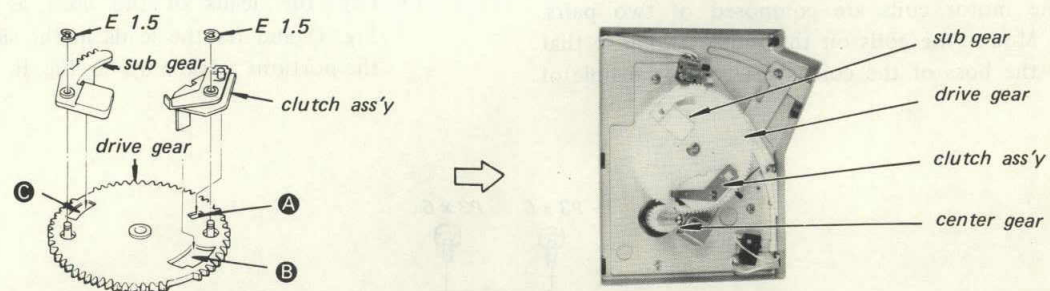
- 1 Smear the shaded portion (E) of the washer and the IFC cam with grease.
- 2 Install a washer in the IFC knob ass'y.
- 3 Set the marked point (*B) of the IFC knob ass'y as shown. Install it through the frame and install the IFC cam in the IFC knob ass'y. Be sure that the two marked points (*A & *B) coincide. (Place the IFC spring lever in the direction of the arrow when performing this installation.)
- 4 Place the bushing, IFC hook and washer (W3) on the spindle and fasten them with screw B3 x 8.
- 5 Connect the IFC hook and the IFC spring lever with a spring and apply suitable locking compound at point (A) of the lever.
- 6 After the installation has been completed, be sure that the IFC hook moves on its own.

Brake Drum Installation



- 1 Thread the IFC lever with the tonearm lead wires.
- 2 Thread the brake drum ass'y with the tonearm lead wires. Pull the wires out in the direction of the arrow (A).
- 3 Set the marked portion (*) of the IFC lever between the IFC spring lever and the IFC hook.
- 4 Push the brake lever in the direction of the arrow (B) and match the slitted part with the hook of the IFC lever. (See fig. a)
- 5 Adjust the position of the drum so that the straight side of drum is parallel with the frame (See fig. b). Fix the drum by turning the set screw (SC3 x 6) in the direction of the arrow (C).

Sub Gear and Clutch Ass'y Installation

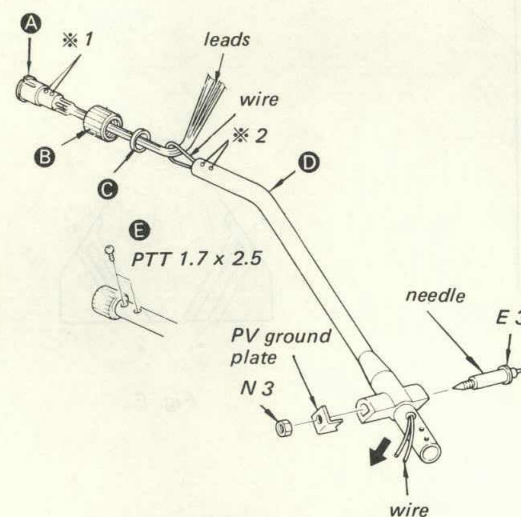


- 1 Set the pawl of the sub gear in hole **C** and fasten the sub gear with E1.5.
- 2 Set the pawls of the clutch ass'y in holes **A** and **B** and fasten the clutch ass'y with E1.5.
- 3 After installation has been completed, make sure that they move on their own.

TONEARM INSTALLATION

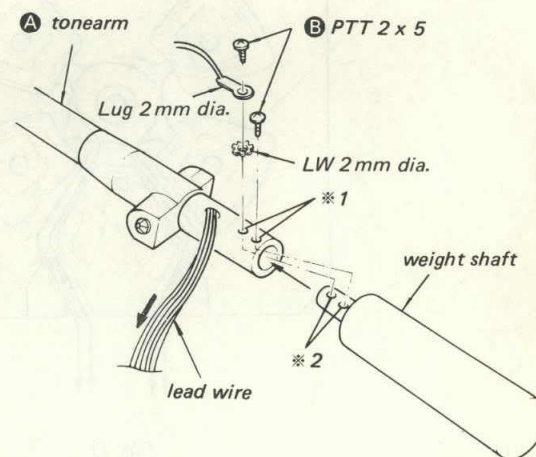
1. Pipe Assembly (1)

1. Thread a wire in **D**.
2. Thread the leads of **A** in **B** and **C**, and hook the leads by the wire.
3. Insert **A** in **D** by pulling the wire in the direction of the arrow, adjust two holes marked *1 and *2 to tighten the screws **E**.



2. Pipe Assembly (2)

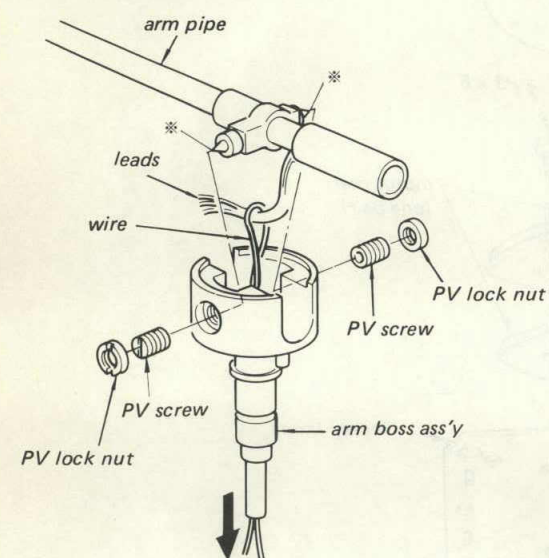
1. Hook the leads together by the wire and pull the leads into **A** in the direction of arrow.
2. Adjust the two holes marked *1 and *2 to tighten the two screws **B**.



3. Arm Boss Ass'y Installation

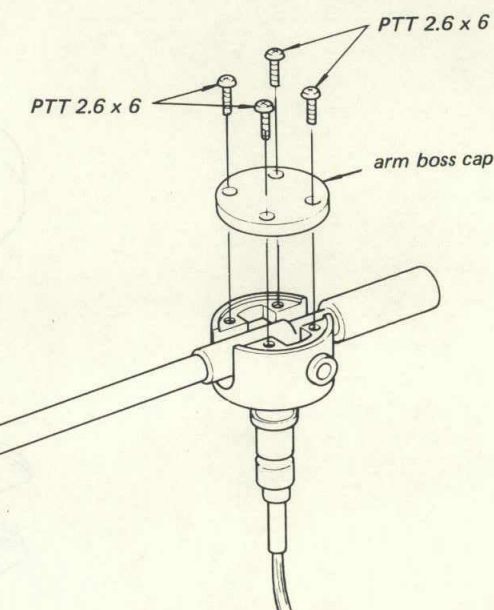
1. Thread the wire in arm boss ass'y.
2. Hook the five leads by the wire.
3. Pull the wire in the direction of arrow.
4. Tighten the pivot screw and the lock nut temporarily.

Note: Confirm that the portions marked * of the tornarm pipe are positioned to the center of the screw hole.



4. Arm Boss Cap Installation

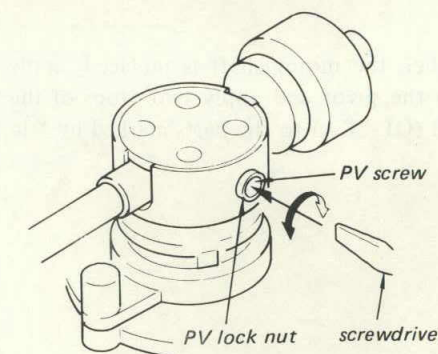
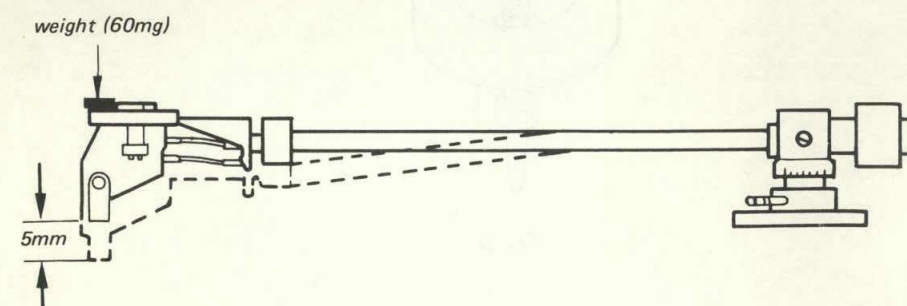
1. Install the arm boss cap with four screws.
2. Install the tornarm to the frame.



5. Longitudinal Sensitivity Adjustment

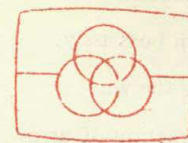
1. Make the longitudinal balance adjustment of tonearm.
2. Repeating the following procedures, adjust the pivot screw and the lock nut.
 - a. When the 60 mg weight is placed on the top of the shell, the tonearm sinks 5 mm (measured at stylus-tip.)
 - b. When the weight is removed, the tonearm returns horizontally.

Note: Rotate the left and right pivot screws by same numbers of turns.



MOTOR INSTALLATION

The motor and the servo amp board are assembled together. If found defective, disassemble the motor block as shown in Fig. A and repair it.



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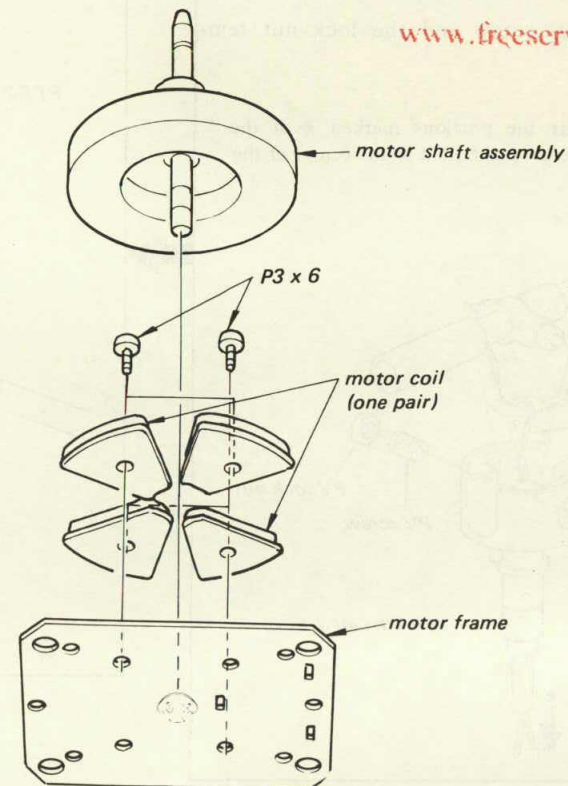


Fig. A

1. When the motor shaft is replaced, apply grease to the pivot and apply two drops of the SONY oil (OL-2KA) to the parts marked by * in Fig. B

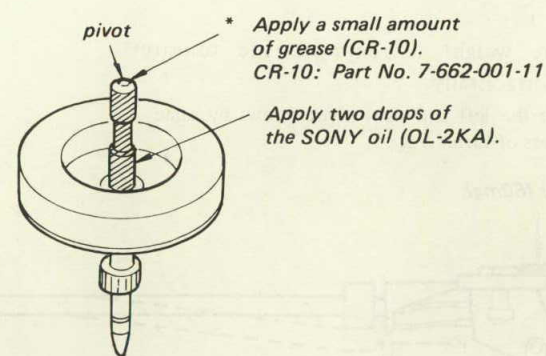


Fig. B

2. When the motor bearing and the thrust retainer plate are replaced, apply grease to the pivot.

3. Insert the motor shaft assembly slowly in the motor bearing so that the motor shaft is not attracted by strong magnetic field strength.
4. The motor coils are composed of two pairs.
 - a). Mount the coils on the motor frame so that the boss of the coil is placed in the hole of

the frame as illustrated in Fig. C.

- b). Push the coils in the arrowed direction and tighten the screws.
- c). Lay the leads of the coils as shown in Fig. D and fix the leads in the slot between the portions marked by * in Fig. E.

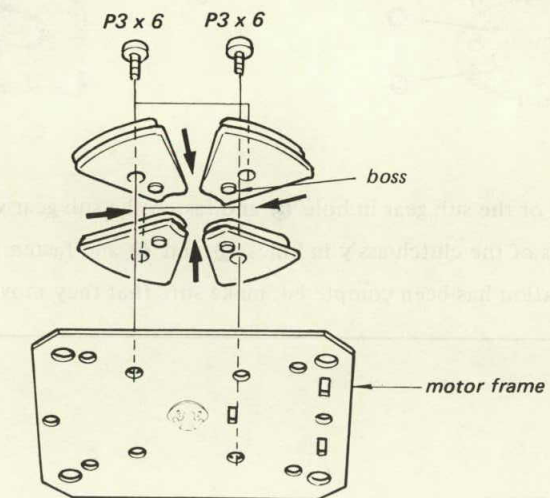


Fig. C

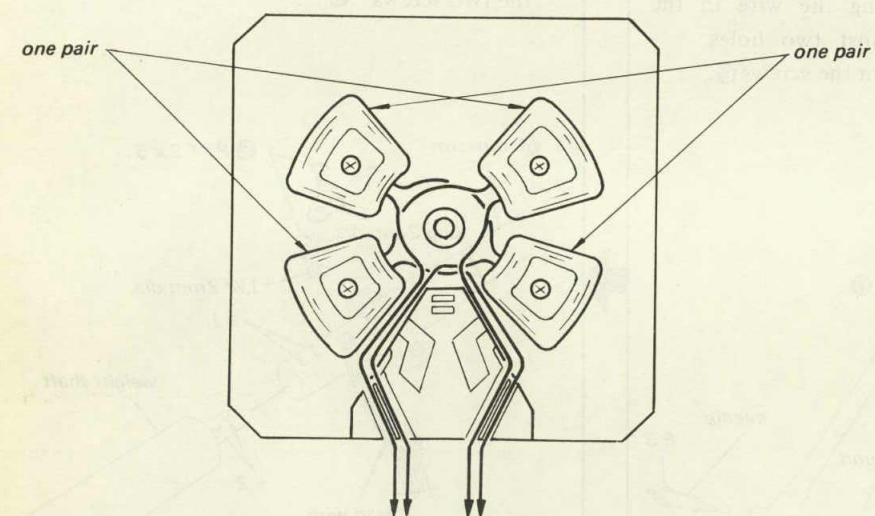


Fig. D

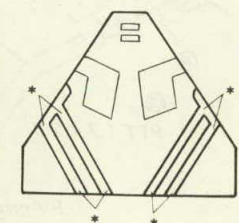
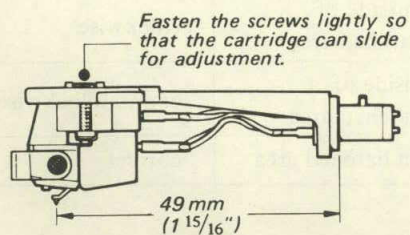
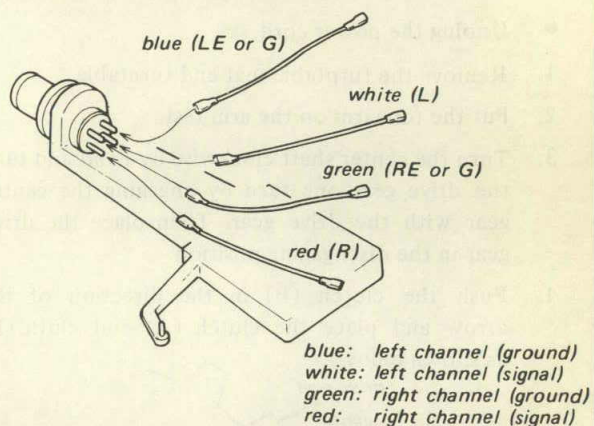


Fig. E

CARTRIDGE INSTALLATION

Install the cartridge into the shell with the mounting screws so that the distance between the shell end and the stylus tip is 49 mm ($1\frac{15}{16}$ inches).

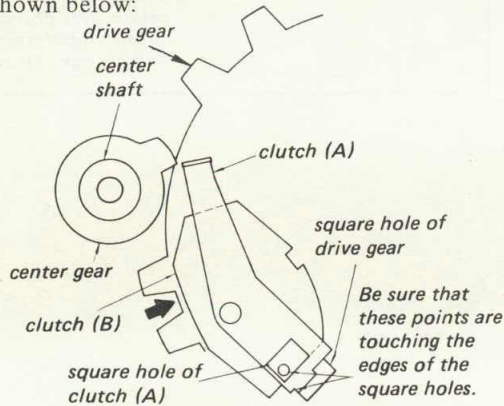
**LEAD WIRE CONNECTION**

SECTION 3 ADJUSTMENTS

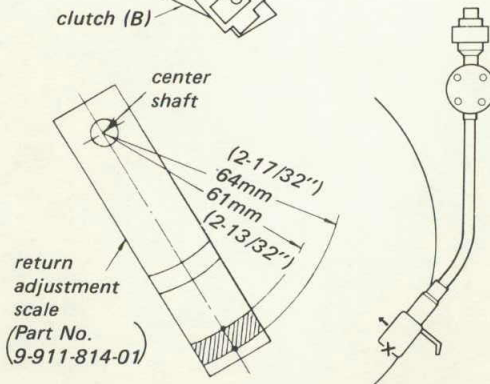
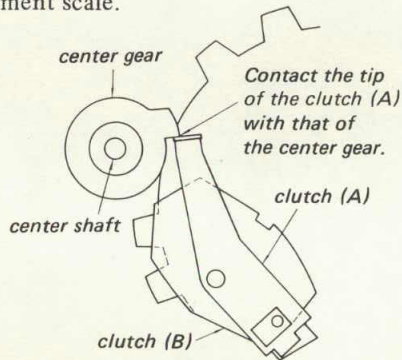
3-1 MECHANICAL ADJUSTMENTS

Automatic Return Position Adjustment

- Unplug the power cord.
- 1. Remove the turntable mat and turntable.
- 2. Put the tonearm on the arm rest.
- 3. Turn the center shaft clockwise by hand and turn the drive gear one turn by engaging the center gear with the drive gear. Then place the drive gear in the disengaging position.
- 4. Push the clutch (B) in the direction of the arrow and place the clutch (A) and clutch (B) as shown below:



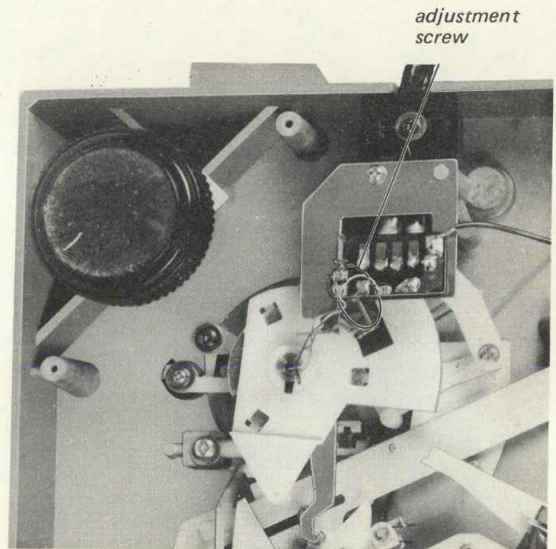
- 5. Put the return adjustment scale (Part No. 9-911-814-01) on the center shaft.
- 6. Move the tonearm toward the center shaft by hand so that the clutch (A) is positioned as shown below and confirm that the stylus is located on the hatched area of the return adjustment scale.

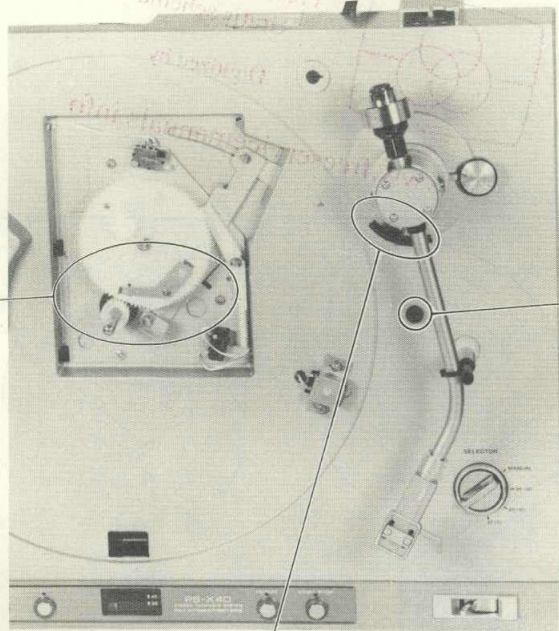


- 7. If necessary, adjust the adjustment screw.

Stylus Position	Adjustment Screw
outside of hatched area	clockwise
inside of hatched area	counterclockwise
on hatched area	correct

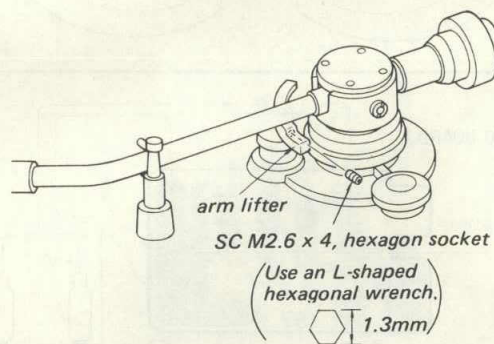
- 8. Play the automatic-return test record (YFSC-16, A side "C-3") and confirm that the tonearm returns at count 4 to 11.





Arm Lifter Height Adjustment

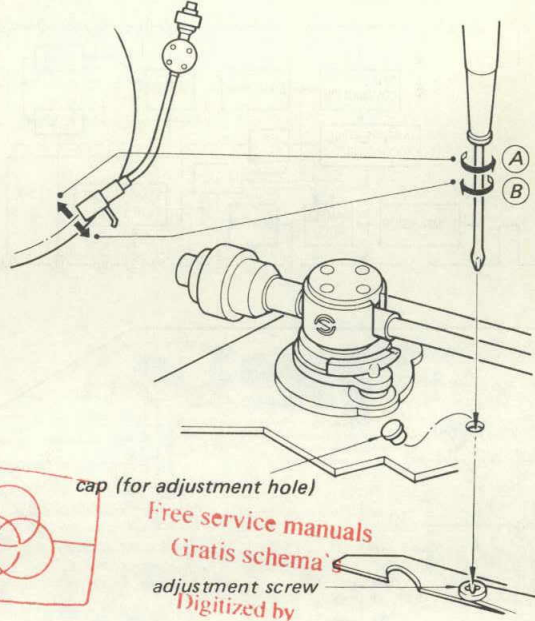
- Unplug the power cord.



The clearance between the stylus tip and the record on the rubber mat should be 7-11mm (5/16-7/16").

Stylus Drop-point Adjustment

- Remove the cap from the adjustment hole.



- Set the record size selector lever to the 30 (12") position and make sure that the stylus gets down on the specified point of the test record: YFSC-16

Record size selector lever position	Count of drop-point
30 (12")	4 to 16
25 (10")	6 to 24
17 (7")	7 to 25

- If necessary, insert the 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 counterclockwise (A).

To change the drop-point outward:
Turn the adjustment screw slightly clockwise (B).

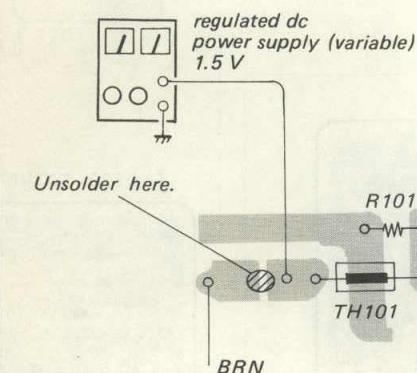
- Once it is properly adjusted with a 30 cm (12") record, the drop-point will be correct for 17 cm (7") and 25 cm (10") records as well.

Note: The stylus drop-point is changed to about 12 mm (1/2") by one turn of the adjustment screw.

3-2. ELECTRICAL ADJUSTMENTS

Hall Device Gain/Offset Adjustment (33 rpm)

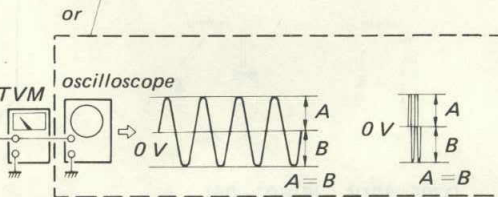
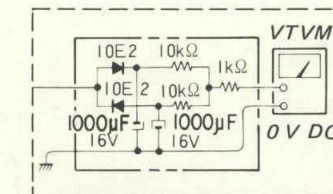
- Unsolder the bridged portion on the pattern and connect the regulated power supply (1.5 V dc) as shown.



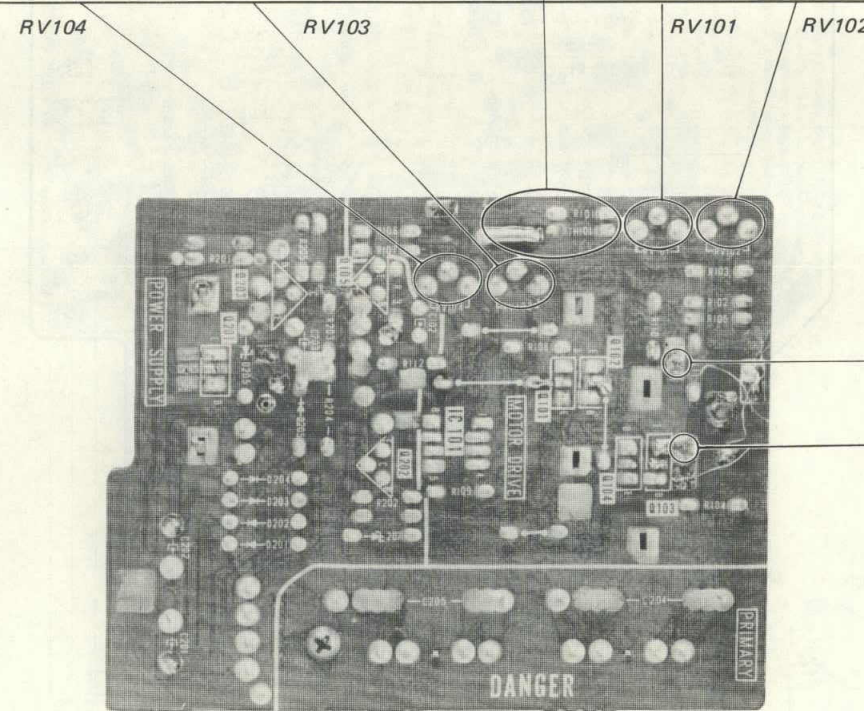
- Connect VTVM to (A) and adjust RV101 for 1.9 V ac reading on VTVM.
- Connect VTVM to (B) and adjust RV102 for 1.9 V ac reading on VTVM.

- Connect an oscilloscope to (A) and adjust RV103 for the specified waveform as shown.
- Connect an oscilloscope to (B) and adjust RV104 for the specified waveform as shown.

Note: When the VTVM is used instead of an oscilloscope, connect the VTVM and the measuring circuit as shown and adjust RV103 and RV104 for 0 V dc on the VTVM.



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



Speed-Detecting Head Output Adjustment

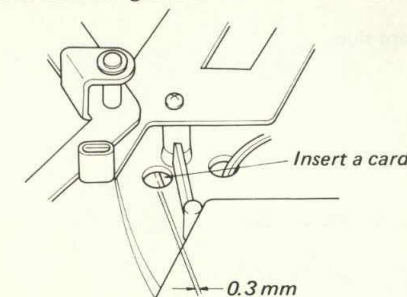
- Adjust the position of the speed-detecting head by loosening the two screws (TA, B 3 x 10) as shown in the photograph so that the VTVM reading is more than 20 mV ac at 33 rpm.
- Make sure that the head does not touch the turntable and tighten the screws securely.

Note:

- Maladjustment results in wow-flutter.
- The clearance between the magnet-coated rim and the speed-detecting head is more than 0.3 mm.

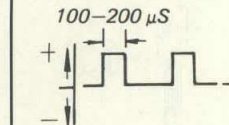
Reference:

Adjust the position of the speed-detecting head by inserting a card (approx. 0.3 mm thick) between the magnetic coating of the turntable and the speed-detecting head.



Speed Adjustment

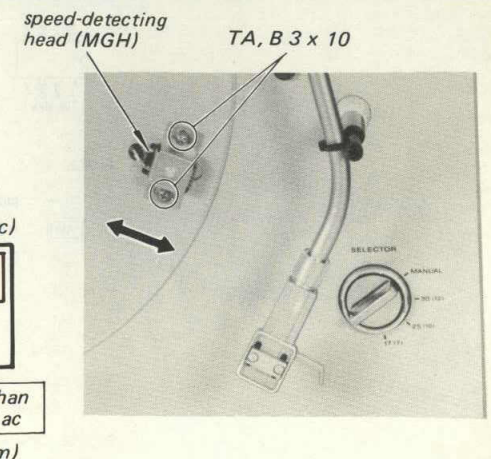
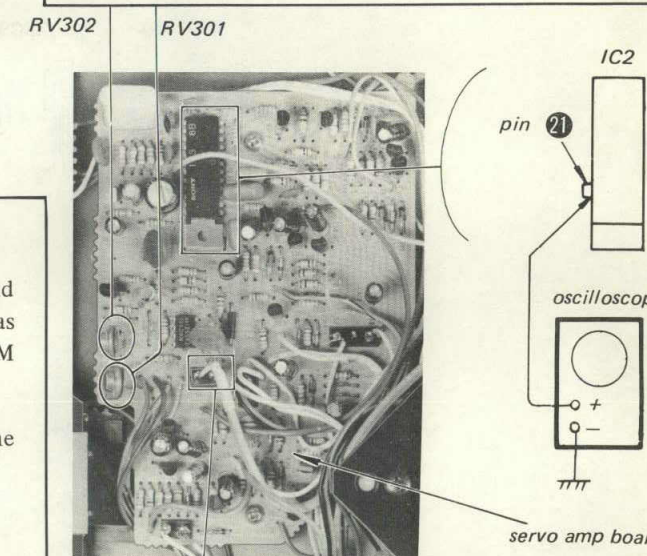
- Set the SPEED selector switch to 45 rpm.
- Adjust RV302 for specified waveform as shown on the oscilloscope.
- Set the SPEED selector switch to 33 rpm.
- Adjust RV301 for specified waveform as shown on the oscilloscope.



Note: The waveform should appear to positive side.



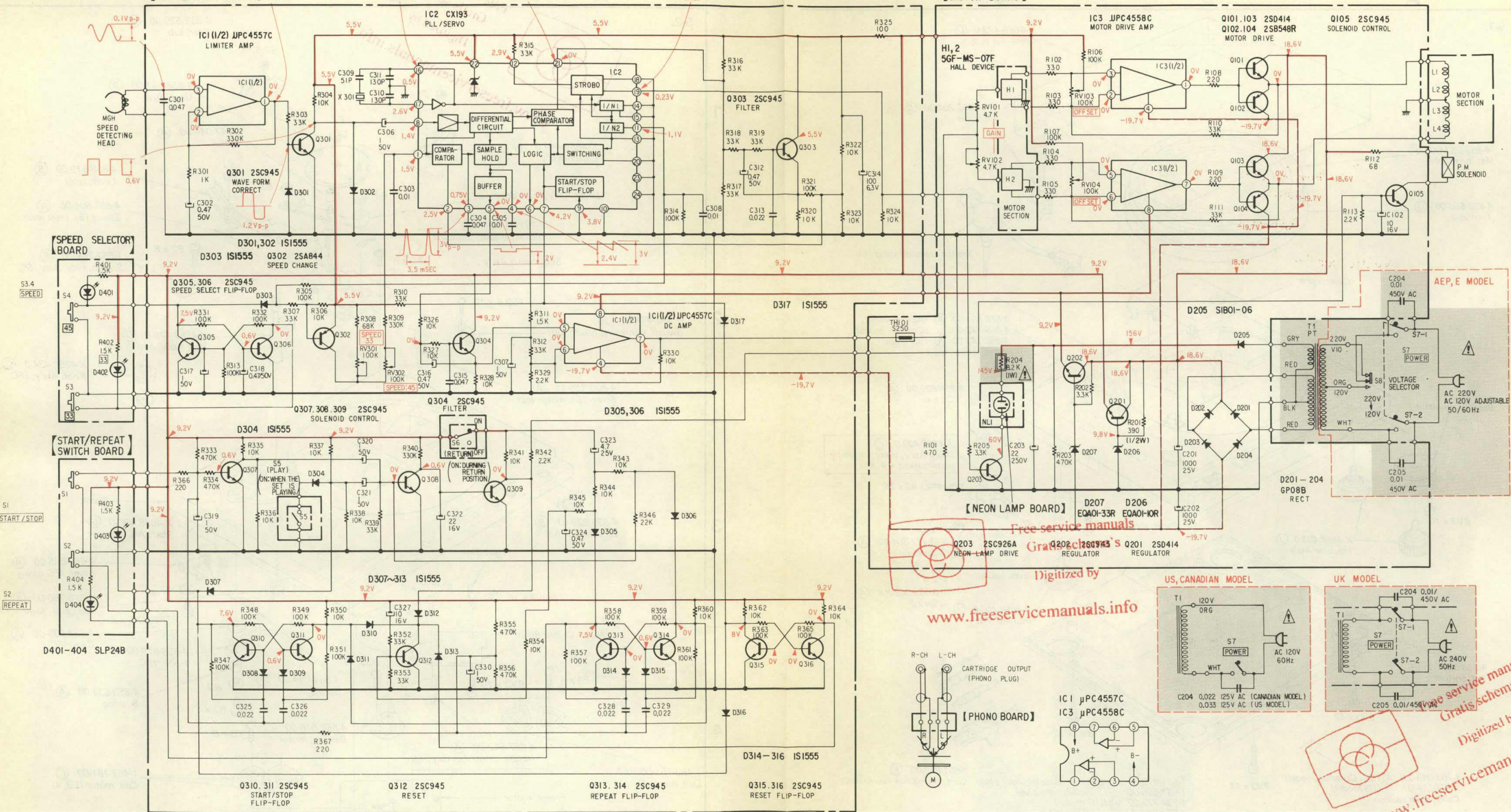
Note: The waveform should appear to positive side.



4-2. SCHEMATIC DIAGRAM

【SERVO AMP BOARD】

【MOTOR BOARD】




Note:


- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/4 W unless otherwise noted. $\text{k}\Omega$: 1000 Ω ; $\text{M}\Omega$: 1000 $\text{k}\Omega$
- : panel designation.
- : adjustment for repair.

- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken in stop mode with a VOM (20k Ω /V).
- Waveforms are taken at 33 rpm.
- — : B+ Bus.
- --- : B- bus.

Switch

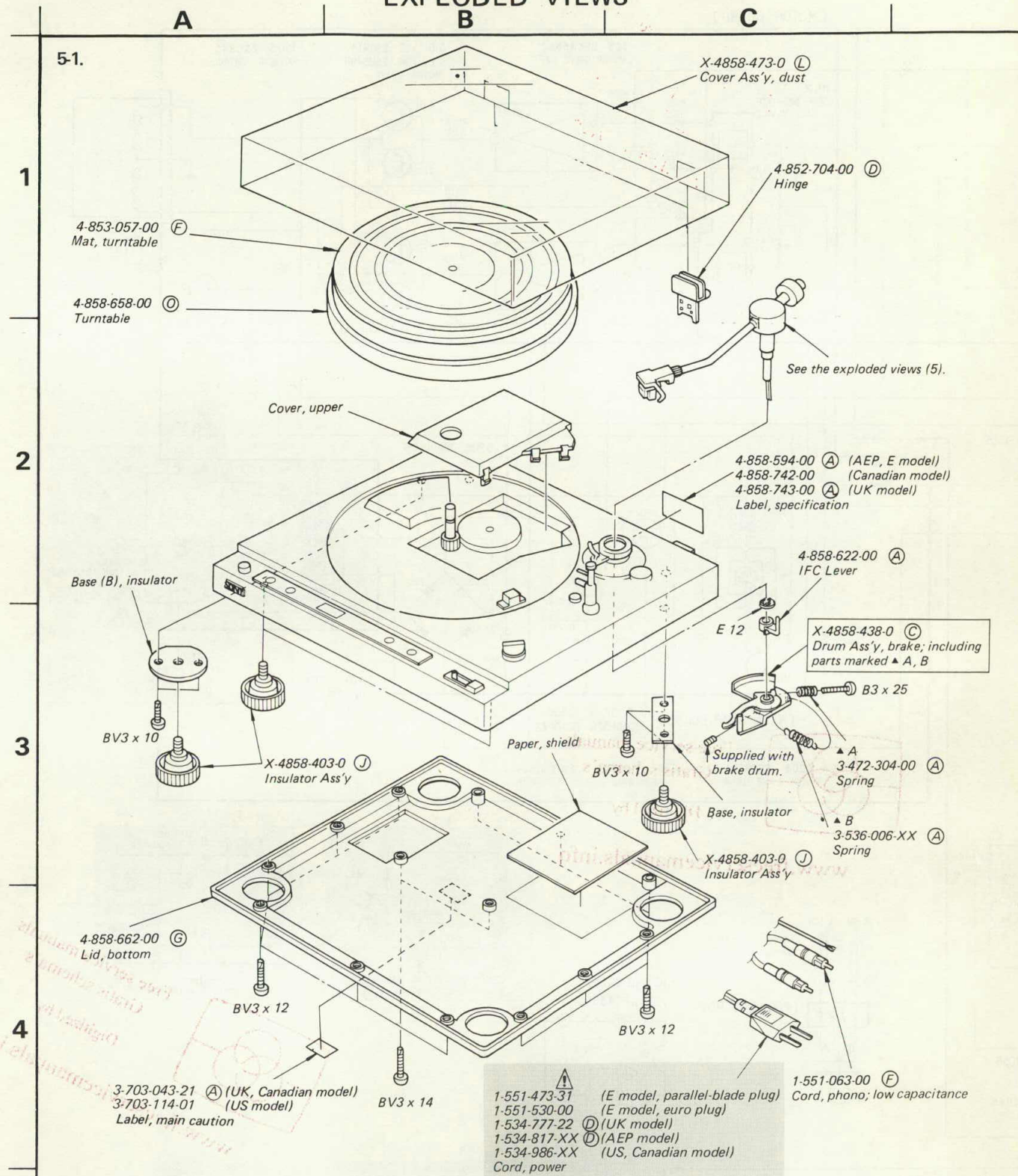
Ref. No	Switch	Position
S1	START/STOP	OFF
S2	REPEAT	OFF
S3	SPEED (33)	OFF
S4	SPEED (45)	OFF
S5	PLAY	OFF
S6	RETURN	OFF
S7	POWER	OFF

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

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

SECTION 5

EXPLODED VIEWS

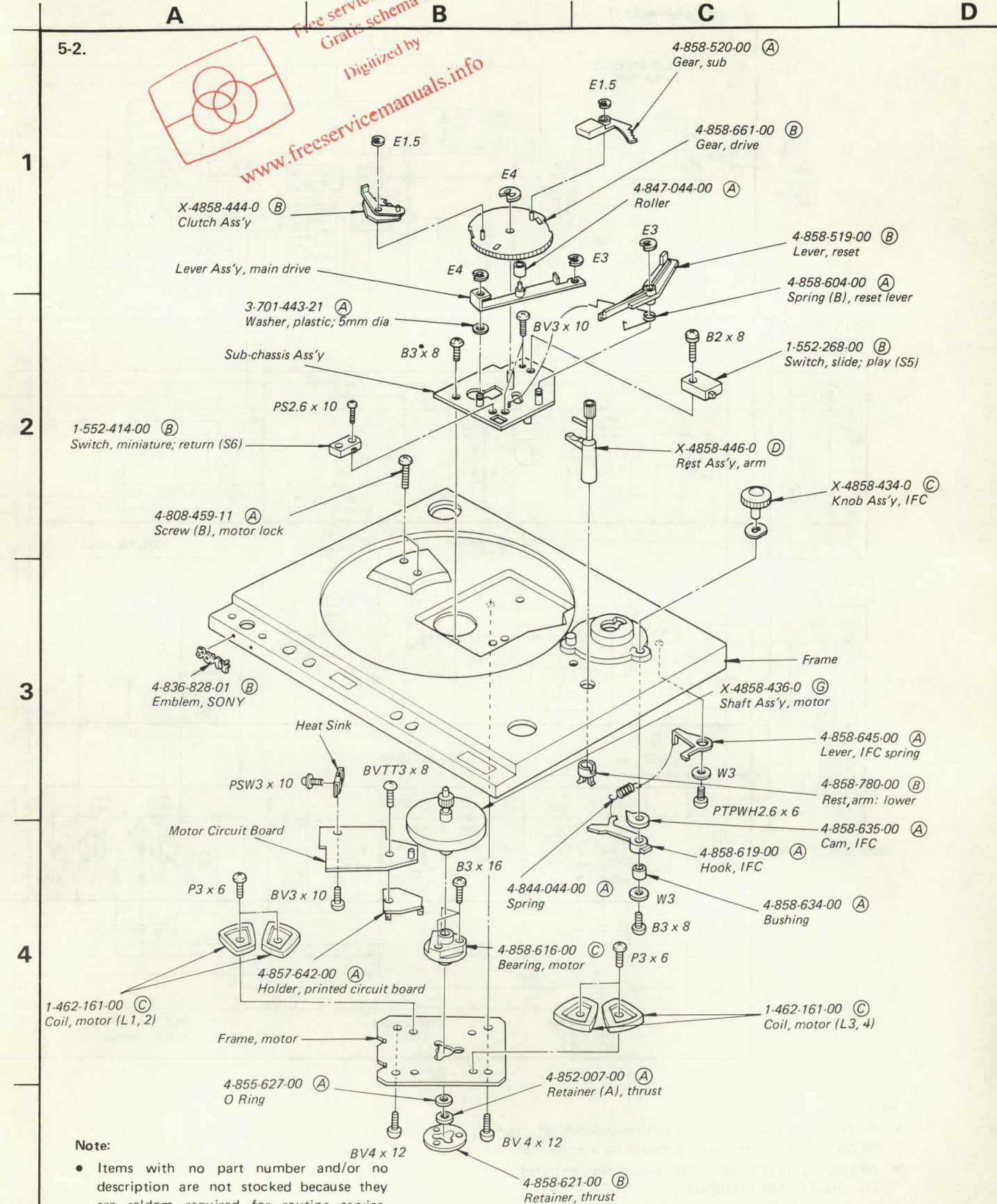


Note:

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

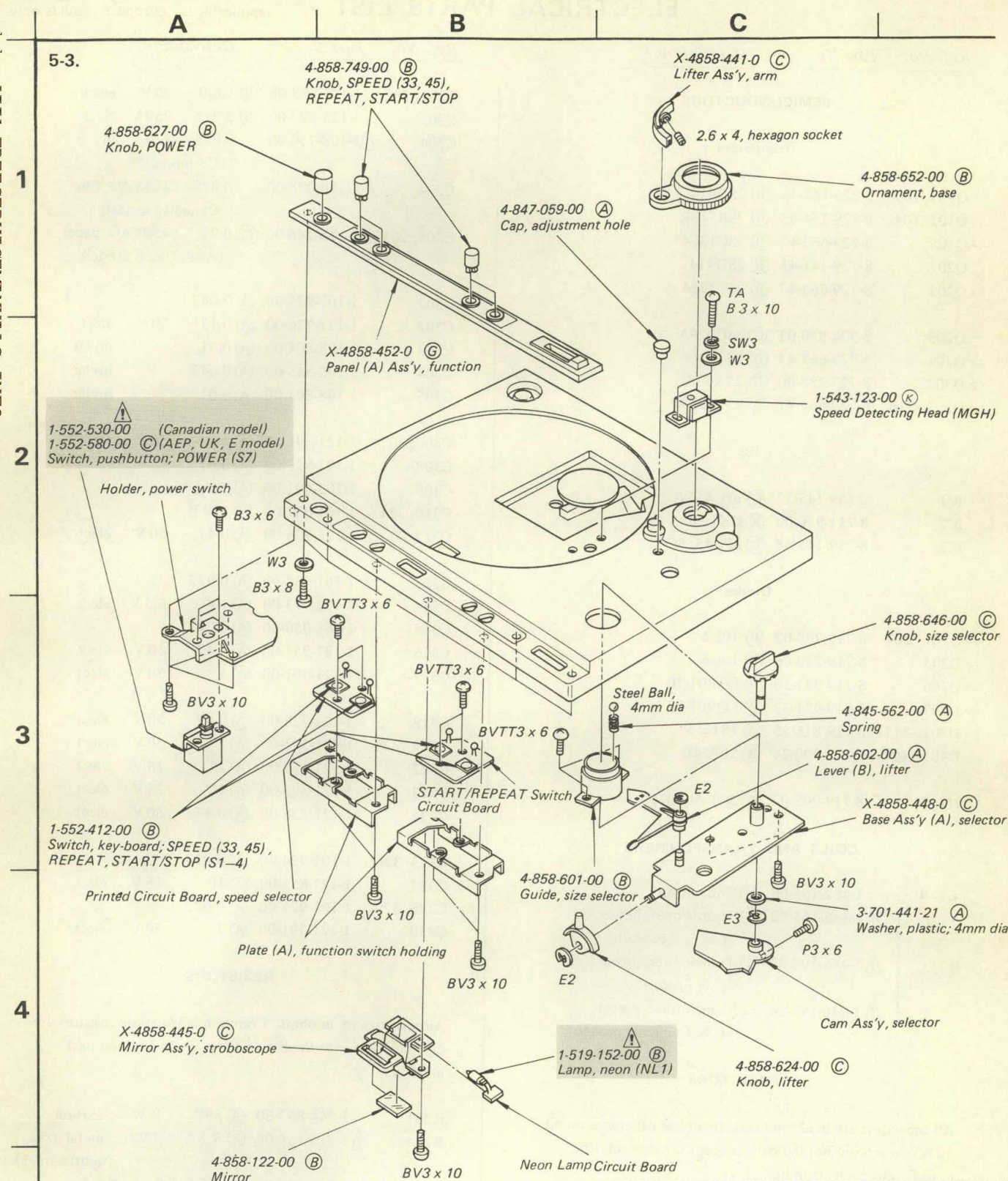
Note: The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.




Note:


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

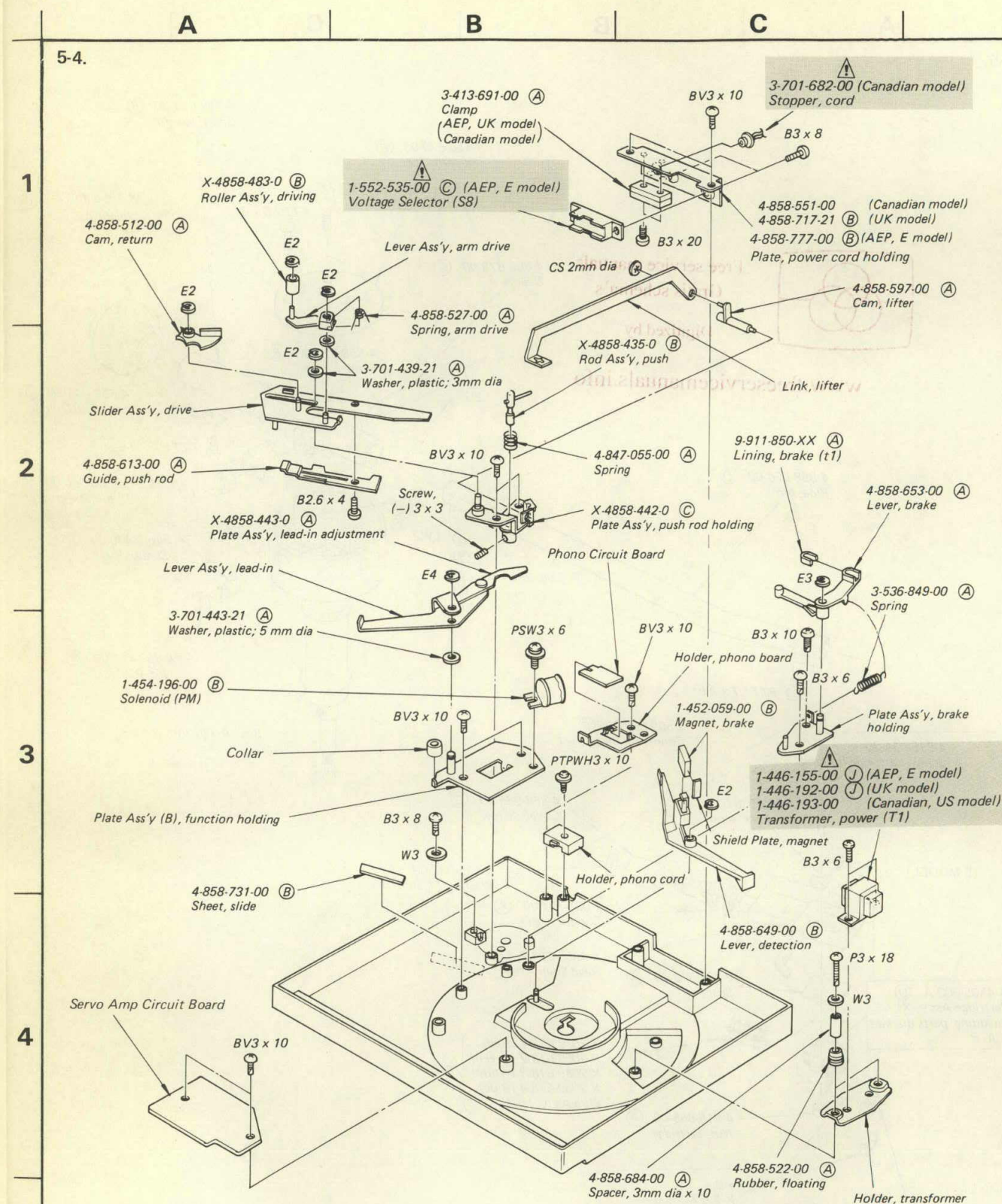


Note:

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

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


Note: Les composants identifiés par un tramé et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



Note:

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

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

SECTION 6

ELECTRICAL PARTS LIST

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

Ref. No. Part No. Description

SEMICONDUCTORS

Transistors

Q101, 103 8-729-141-43 (B) 2SD414
Q102, 104 8-729-154-83 (B) 2SB548R
⇒ Q105 8-729-663-47 (B) 2SC1364
Q201 8-729-141-43 (B) 2SD414
⇒ Q202 8-729-663-47 (B) 2SC1364

Q203 8-720-950-03 (C) 2SC926A
⇒ Q301 8-729-663-47 (B) 2SC1364
⇒ Q302 8-727-788-00 (B) 2SA678
⇒ Q303-316 8-729-663-47 (B) 2SC1364

ICs

IC1 8-759-145-57 (C) μ PC4557C
IC2 8-751-930-00 (K) CX193
IC3 8-759-145-58 (D) μ PC4558C

Diodes

⇒ D201-204 8-719-200-02 (B) 10E2
⇒ D205 8-719-210-06 (B) 10D6
⇒ D206 8-719-931-10 (B) EQB01-10
⇒ D207 8-719-931-33 (B) EQB01-33
D301-317 8-719-815-55 (A) 1S1555
D401-404 8-719-900-24 (B) SLP24B

H1, 2 8-719-905-07 (C) 5GF-MS-07F

COILS AND TRANSFORMERS

L1-4 1-462-161-00 (C) Coil, motor
T1 { 1-446-155-00 (J) Transformer, power (AEP, E model)
1-446-192-00 (J) Transformer, power (UK model)
1-446-193-00 Transformer, power (US, Canadian model)

CAPACITORS

All capacitors are in μ F and ceramic unless otherwise noted.
50 WV or less are not indicated except for electrolytics.
p: μ F, elect: electrolytic

C102 1-121-651-00 (A) 10 16 V elect

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

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

Ref. No. Part No. Description

C201, 202 1-121-388-00 (B) 1000 25 V elect
C203 1-123-027-00 (B) 2.2 250 V elect
C204 Δ 1-108-750-00 0.033 125 V mylar (US model)
C204 Δ 1-130-098-00 0.022 125VAC film (Canadian model)
C204, 205 Δ 1-115-148-00 (C) 0.01 450VAC paper (AEP, UK, E model)

C301 1-101-925-00 (A) 0.047
C302 1-121-726-00 (A) 0.47 50 V elect
C303 1-108-804-00 (A) 0.01 mylar
C304 1-108-845-00 (A) 0.047 mylar
C305 1-108-804-00 (A) 0.01 mylar

C306, 307 1-121-391-00 (A) 1 50 V elect
C308 1-101-923-00 (A) 0.01
C309 1-102-491-00 (A) 51 p
C310, 311 1-101-081-00 (A) 130 p
C312 1-121-726-00 (A) 0.47 50 V elect

C313 1-161-034-00 (A) 0.022
C314 1-121-413-00 (A) 100 6.3 V elect
C315 1-161-036-00 (A) 0.047
C316 1-121-951-00 (A) 0.47 50 V elect
C317 1-121-391-00 (A) 1 50 V elect

C318 1-121-726-00 (A) 0.47 50 V elect
C319-321 1-121-391-00 (A) 1 50 V elect
C322 1-121-479-00 (A) 22 16 V elect
C323 1-121-395-00 (A) 4.7 25 V elect
C324 1-121-726-00 (A) 0.47 50 V elect

C325, 326 1-101-924-00 (A) 0.022
C327 1-121-651-00 (A) 10 16 V elect
C328, 329 1-101-924-00 (A) 0.022
C330 1-121-391-00 (A) 1 50 V elect

RESISTORS

All resistors are in ohms. Common $\frac{1}{4}$ W carbon resistors are omitted. Refer to the list on the page 28 for their part numbers.

R201 1-244-863-00 (A) 390 $\frac{1}{2}$ W carbon
R204 Δ 1-213-154-00 (B) 8.2 k 1 W metal oxide (nonflammable)

RV101, 102 1-224-633-00 (A) 4.7 k, adjustable; gain
RV103, 104 1-224-637-00 (A) 100 k, adjustable; offset
RV301, 302 1-224-637-00 (A) 100 k, adjustable; speed (33, 45)

Note: Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-5.

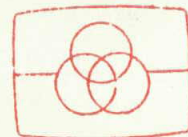
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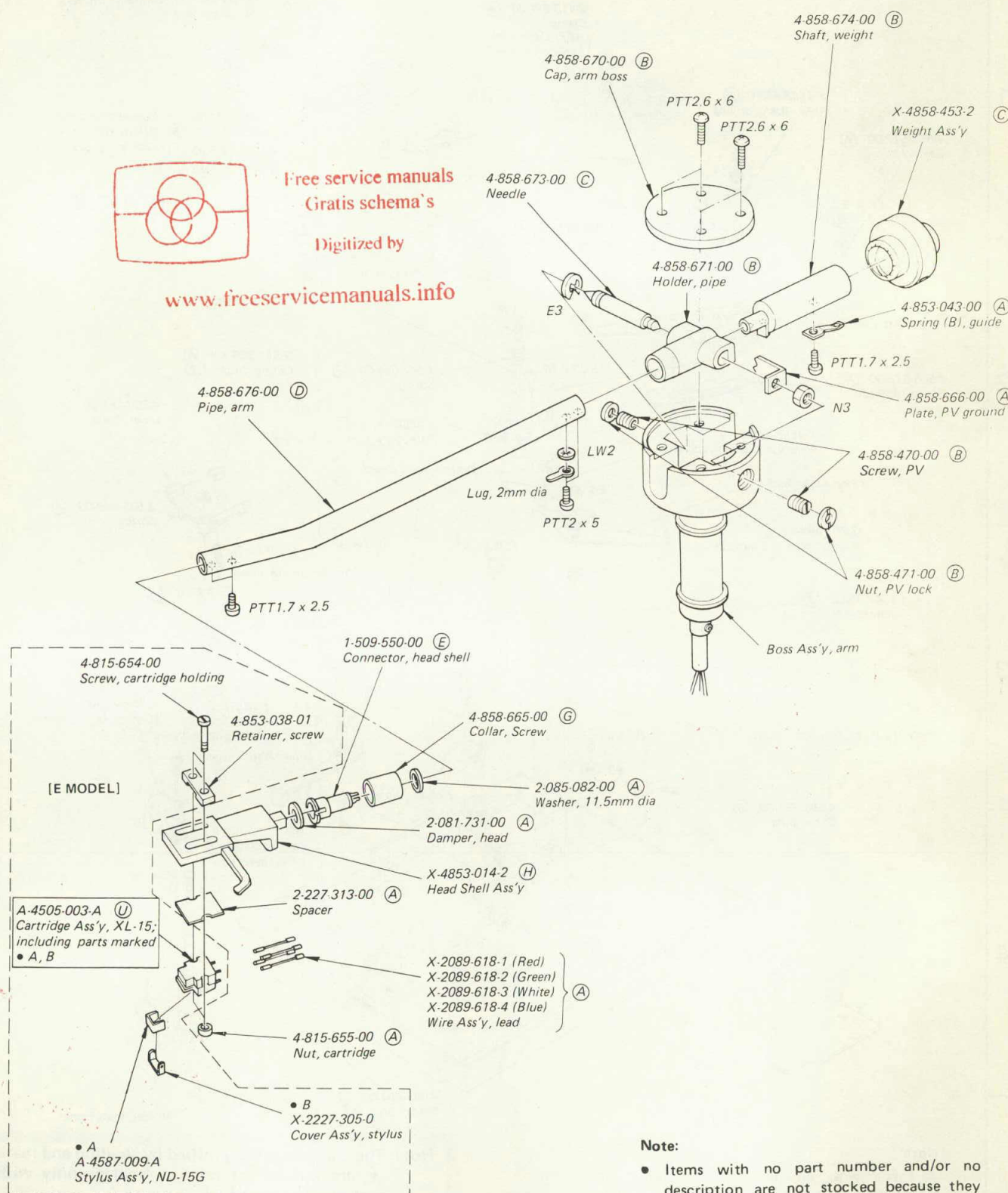
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Note:

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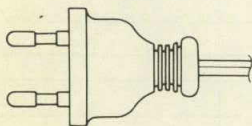
Note: Circled letters (A) to (Z) are applicable to European models only.

Ref. No.	Part No.	Description
SWITCHES		
S1-4	1-552-412-00	(B) Key-Board, START/STOP, REPEAT, SPEED (33, 45)
S5	1-552-268-00	(B) Slide, PLAY
S6	1-552-414-00	(B) Miniature, RETURN
S7	(A) 1-552-530-00	Pushbutton, POWER (US, Canadian model)
	(A) 1-552-580-00	(C) Pushbutton, POWER (AEP, UK, E model)
S8	(A) 1-552-535-00	(C) Voltage Selector (AEP, E model)

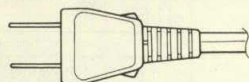
MISCELLANEOUS		
MGH	1-543-123-00	(K) Speed Detecting Head
NL1	(A) 1-519-152-00	(B) Lamp, neon
PM	1-454-196-00	(B) Solenoid
TH101	1-800-195-00	(A) Thermistor, S-250
X301	1-527-380-00	(D) Crystal
	1-452-059-00	(B) Magnet, Brake
	1-509-550-00	(E) Connector, head shell
	(A) 1-534-777-72	(D) Cord, power (UK model)
	(A) 1-534-817-XX	(D) Cord, power (AEP model)
	(A) 1-534-986-XX	Cord, power (US, Canadian model)
	1-551-063-00	(F) Cord, phono; low capacitance
	(A) 1-551-473-31	Cord, power, parallel-blade plug (E model)
	(A) 1-551-530-00	Cord, power; euro-plug (E model)

—Power Cord (E model)—

euro-plug
(1-551-530-00)



parallel-blade plug
(1-551-473-31)

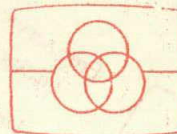


Note: The components identified by shading and mark (A) are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque (A) sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
X-4853-006-0	(E) Screw Ass'y, cartridge including: (AEP, UK, US, Canadian model)
2-011-002-00	Bag, polyethylene
2-056-532-01	(B) Screw (A), cartridge
2-224-081-00	(B) Screw (E), cartridge
2-224-081-11	(B) Screw (E), cartridge
3-770-625-11	(D) Manual, instruction (AEP, UK, E model)
3-770-625-21	Manual, instruction (US model)
3-770-625-21	Manual, instruction (Canadian model)
3-794-319-31	(A) Bag, polyethylene
3-701-614-00	(A) Bag, polyethylene, shell and main weight
3-701-616-00	(A) Bag, polyethylene
3-701-630-00	(A) Bag, polyethylene, turntable
3-701-634-00	(A) Adaptor, 45 rpm
3-701-806-00	(A) Label, main caution (Canadian, UK model)
3-701-891-00	Label, main caution (US model)
3-703-114-01	(B) Gauge, tracking error check
3-793-395-00	Leaflet, caution (E model)
3-794-265-00	(C) Bag, polyethylene
4-847-314-00	(A) Cushion, arm pipe
4-848-002-00	(A) Plate (A), protection
4-857-655-00	(A) Adjustor, drop-point
4-858-407-00	(A) Bag, accessory
4-858-587-00	(A) Cushion, weight
4-858-593-00	(E) Carton
4-858-738-00	(C) Cushion, right
4-858-740-00	(C) Cushion, left
4-858-741-00	(C) Box, accessory
4-858-748-00	



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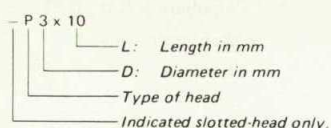
1/4 WATT CARBON RESISTORS Ⓐ

Note: Circled letter Ⓐ is applicable to European models only.

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	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	1-246-576-00	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	1-246-577-00	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	1-246-578-00	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	1-246-579-00	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	1-246-580-00	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	1-246-581-00	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	1-246-582-00	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	1-246-583-00	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	1-246-584-00	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	1-246-585-00	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	1-246-586-00	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	1-246-587-00	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		

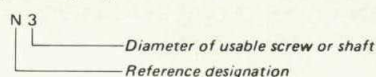
HARDWARE NOMENCLATURE

Screw:



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

Nut, Washer, Retaining ring:



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 PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW 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-filister-head screw	
RF		filister-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	

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