

PS-LX510

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model



SILVER MODEL SHOWN

SPECIFICATIONS

Turntable

Platter	30 cm (12 in.), aluminum-alloy diecast
Motor	Linear torque BSL (brushless and slotless) motor
Drive system	Direct drive
Control system	Quartz lock servo control system
Speed	33 $\frac{1}{3}$ rpm, 45 rpm
Wow and flutter	0.03% (WRMS) *, 0.035% (WRMS) $\pm 0.045\%$ (DIN)
Signal-to-noise ratio	75 dB (DIN-B)
Automatic system	Lead-in, return, repeat, reject, up/down, record size selection
Load characteristics	0% up to 1.5g tracking force (at lead-in groove of a record)
Speed deviation	Within $\pm 0.003\%$

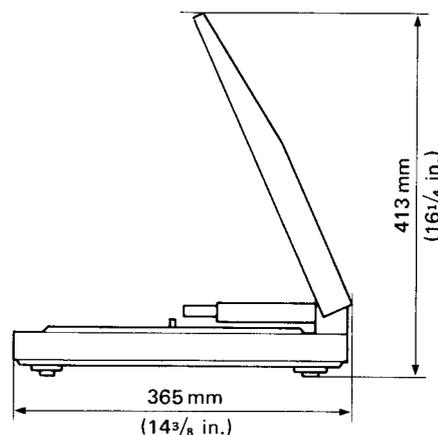
Tonearm

Type	Linear tracking tonearm
Pivot-to-stylus length	75 mm (3 in.)
Tracking error	$\pm 0.1^\circ$
Tracking force adjustment range	± 0.25 g
Usable cartridge	plug-in type, 6 g

General

Power requirements	120 V ac, 60 Hz (US, Canadian model) 220 V ac, 50/60 Hz (AEP model) 110 – 220 V, 120 – 240 V ac, 50/60 Hz (E model)
Power consumption	10 W
Dimensions	Approx. 430 x 90 x 356 mm (w/h/d) (16 $\frac{1}{2}$ / $\frac{1}{8}$ x 3 $\frac{5}{8}$ x 14 in.) including projecting parts and controls

With the dust cover opened.



– Continued on page 2 –

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES 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.

SAFETY-RELATED COMPONENT WARNING!!

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



STEREO TURNTABLE SYSTEM
SONY®



Weight Approx. 5 kg (11 lbs 0 oz), net
 Approx. 6.1 kg (13 lbs 7 oz), in shipping
 carton

Design and specifications subject to change without notice.

* 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.

Cartridge VL-45G
(supplied only with Canadian and partial US model)

Type: Moving magnet
Frequency Response: 10 Hz – 20 kHz
Channel Separation: 23 dB at 1 kHz
Output Voltage: 5 mV at 1 kHz, 5 cm/sec., 45°
Load Impedance: 50 kΩ – 100 kΩ
Tracking Force: 1.0 – 1.5 g (1.25 g recommended)
Stylus: Sony ND-145G
Weight: 6 g

Cartridge XL-250G (supplied only with AEP, E model)

Type: Moving magnet
Frequency Response: 10 Hz – 20 kHz
Channel Separation: 23 dB at 1 kHz
Output Voltage: 5 mV at 1 kHz, 5 cm/sec., 45°
Load Impedance: 50 kΩ – 100 kΩ
Tracking Force: 1.0 – 1.5 g (1.25 g recommended)
Stylus: Sony ND-250G
Weight: 6 g

FEATURES

Linear tracking tonearm

Compared with a pivoted tonearm, a linear tracking arm has a very small tracking error (which means greatly reduced harmonic distortion) and almost no pressure on the inside wall of the groove of records (which means improved trackability and channel separation).

Front panel operation with the dust cover closed

The ARM TRANSPORT buttons allow you to move the tonearm easily over the desired point of the record with the dust cover closed.

Start/stop of the record play and tonearm up/down can also be controlled using the buttons on the front panel.

Fully automatic system

The movement of the turntable and the tonearm is controlled by a microcomputer and is activated by the "feather-touch" function buttons on the front panel.

Automatic record size selection

The record size is automatically set by a photo sensor system. If no record is on the turntable, the tonearm will not descend but will automatically return to the tonearm resting position.

Muting system

A muting system activates when the tonearm is lifted and is deactivated after the tonearm lowers onto a record so there is no need to turn the amplifier volume down every time a stylus is placed on a record.

Quartz lock servo system

The turntable maintains an accurate and drift-free speed by referring to a frequency generated by a very stable quartz oscillator.

Linear torque BSL motor

Direct drive system with Sony's unique BSL (brushless and slotless) motor which has an extremely low noise level and whose smoothness virtually eliminates wow and flutter. Its high torque assures a quick start to 33 1/3 rpm after only a half revolution.

Synchronized operation with the Sony cassette decks

When the tonearm lowers onto the lead-in groove of a record, the cassette deck stand-by mode is released and the record mode assumed. This synchronized operation is possible with Sony cassette decks equipped with a four-pin remote control jack which is connected with the Sony RM-65 synchro remote control unit.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

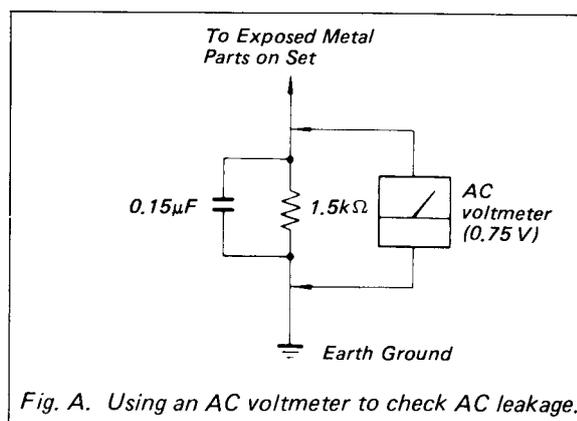
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

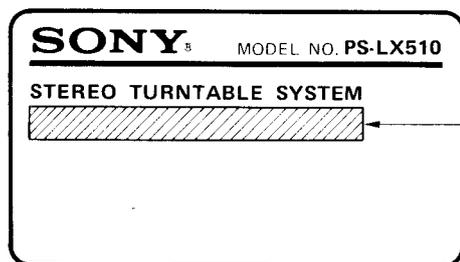
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



MODEL IDENTIFICATION

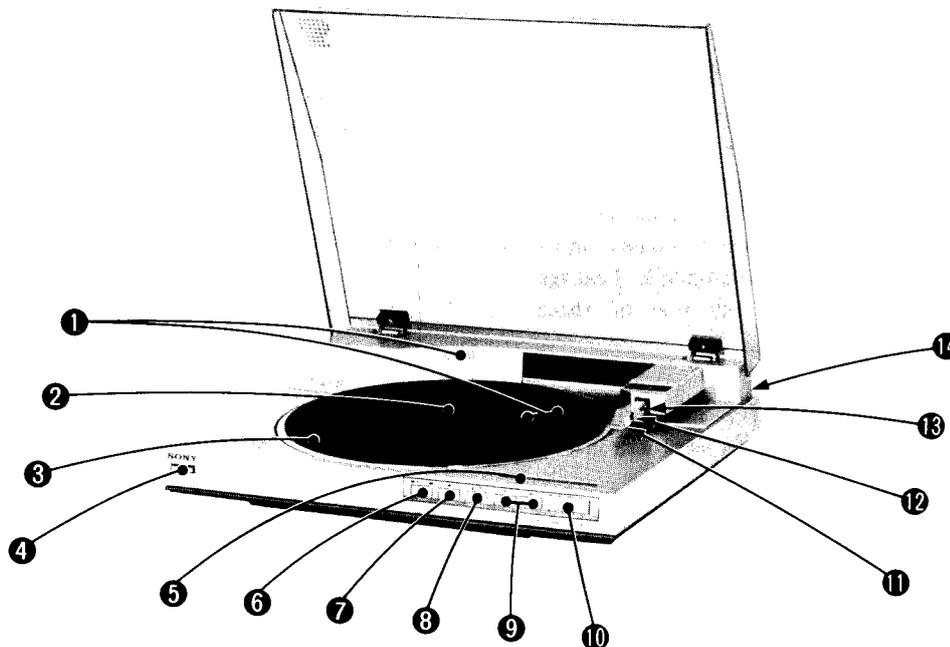
— *Specification Label* —



- US, Canadian : AC: 120 V ~ 60 Hz 10 W
- AEP : AC: 220 V ~ 50/60 Hz 10 W
- E : AC: 110 - 220 V, 220 - 240 V ~ 50/60 Hz 10 W

LOCATION AND FUNCTION OF CONTROLS

The photo shows the assembled turntable.
Each number in the text is keyed to that of the photo.



1 Auto-record-size selection holes and lamp

2 Center spindle

3 Rubber matspeed which indicates some trouble.

4 POWER switch

Press to turn on the turntable. To turn the turntable off, press it again.

5 QUARTZ LOCK indicator

The indicator illuminates in green when the turntable rotations is locked to the nominal speed by the quartz lock control system. The indicator goes out when the turntable rotations is out of the nominal speed which indicates some trouble.

6 SPEED selector and indicators

Selects the record speed. When the POWER switch is turned on, the speed is always $33\frac{1}{3}$ rpm and the indicator on the right illuminates. When the selector is pressed, 45 rpm is selected and the indicator on the left illuminates.

7 REPEAT button and indicator

Press this button to repeat play. The indicator illuminates and repeat play continues until this button is pressed to stop it. If the START/STOP button is pressed during repeat play, the tonearm returns to the tonearm resting position and the turntable stops rotating.

8 ARM LIFTER button

This button lifts and lowers the tonearm.

When the tonearm is on the tonearm resting position, it cannot be lifted up with this button.

9 ARM TRANSPORT buttons

To move the tonearm inwards, press the ◀ button. To move it outwards press the ▶ button. The tonearm is raised automatically and continues to move while the button is depressed. The tonearm will stop when the button is released. For fine adjustment of the tonearm drop-point over a record, press and immediately release the appropriate button. This button is useful for beginning a record partway through, or for skipping to another selection.

10 START/STOP button and indicator

Press this button to start the record playing, and the indicator illuminates. To stop during play, press it again.

11 Cartridge

12 Cartridge locking screw

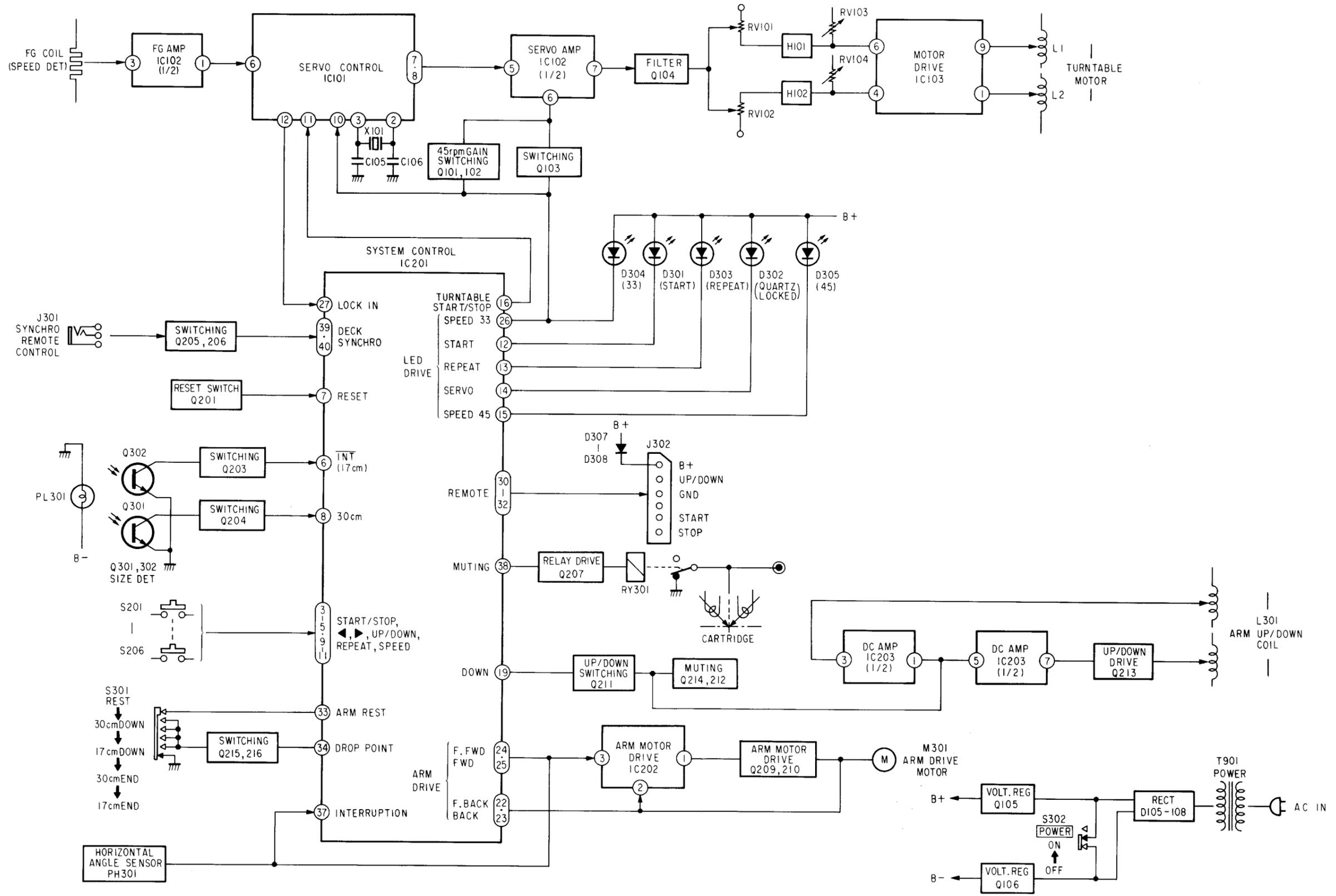
13 Tracking force adjustment lever

14 Synchro remote control jack (rear)

Synchronized recording from disc to tape is possible on specified Sony cassette decks by using the optional RM-65 synchro remote control unit.

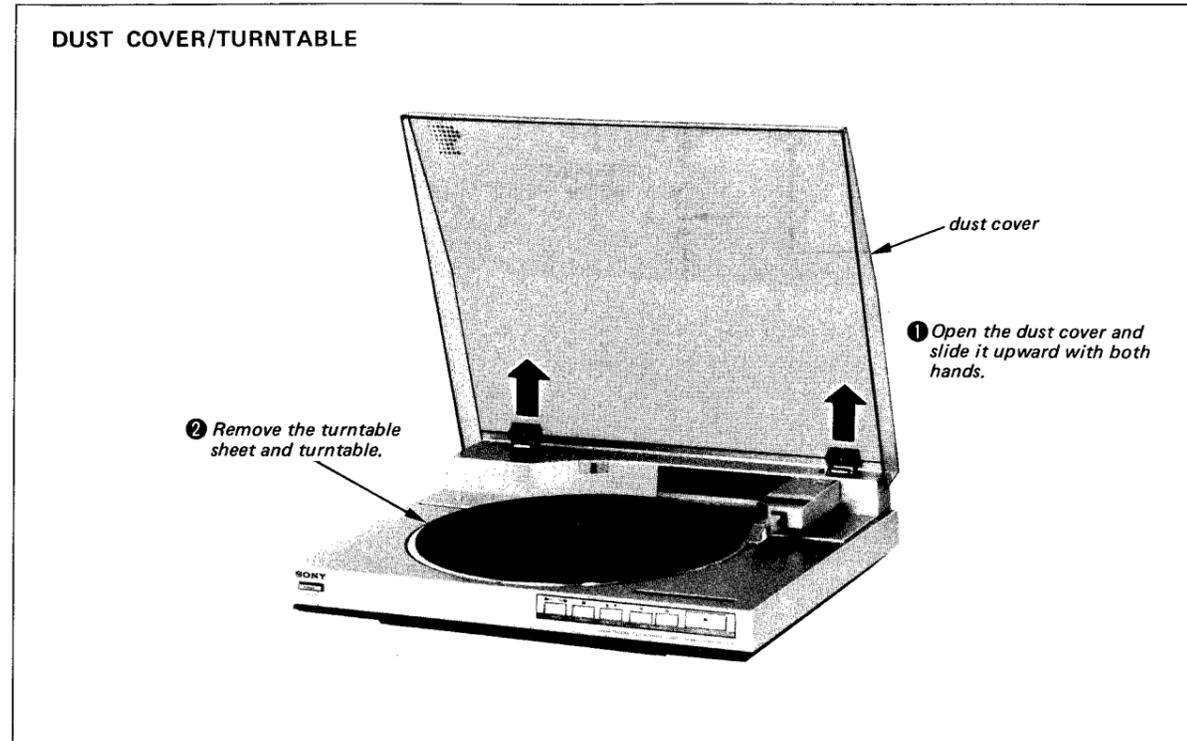
SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

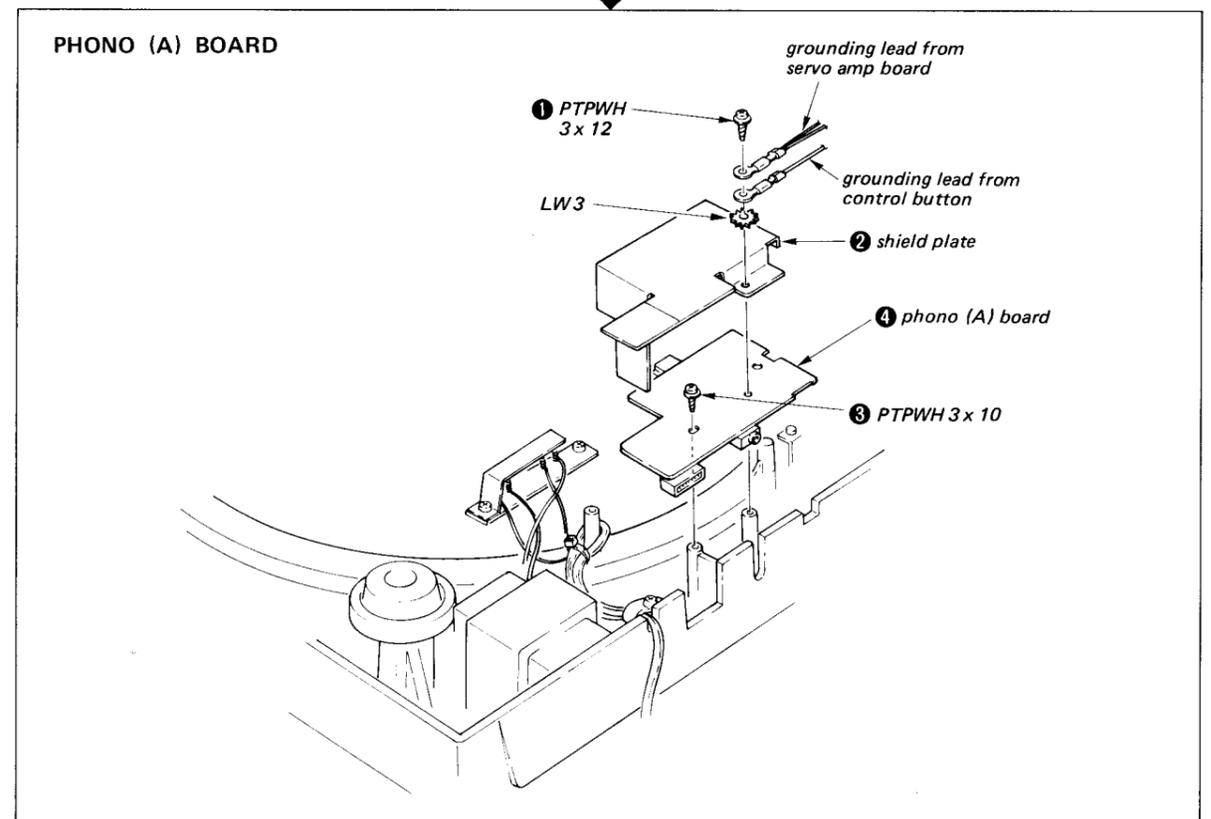
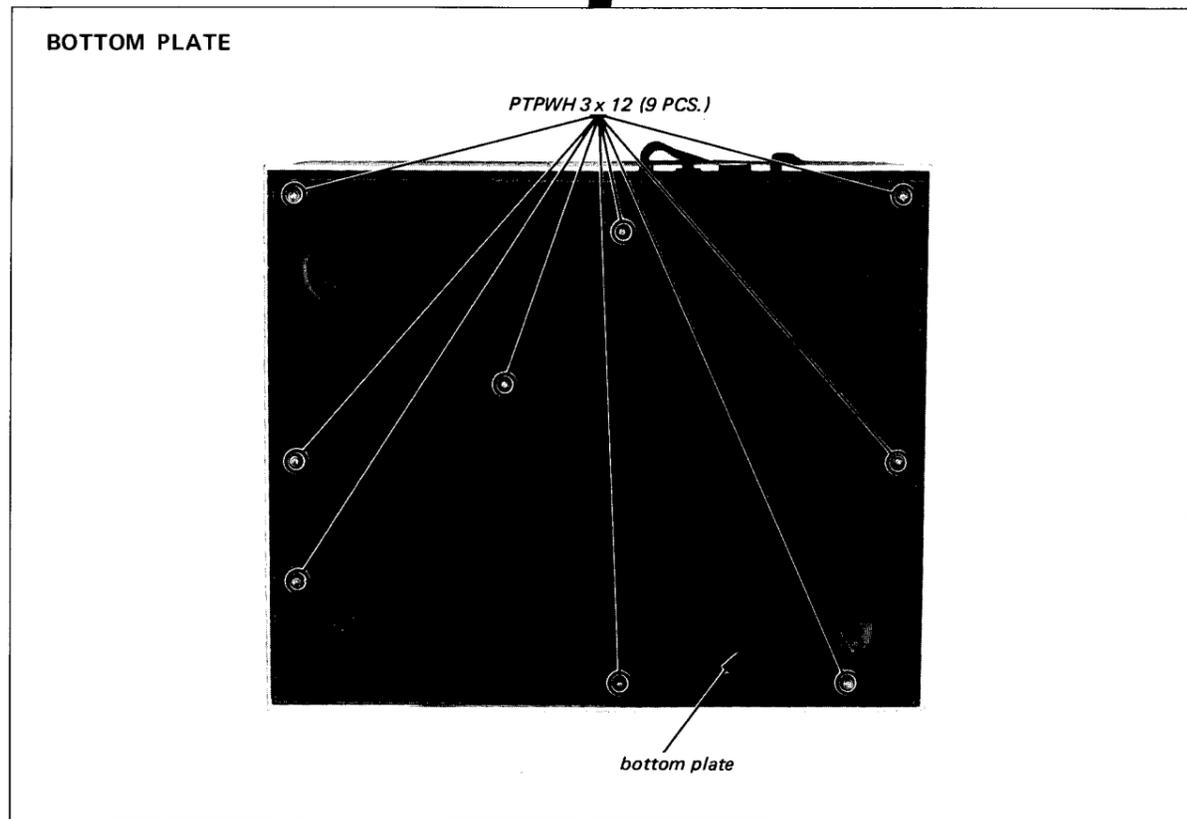
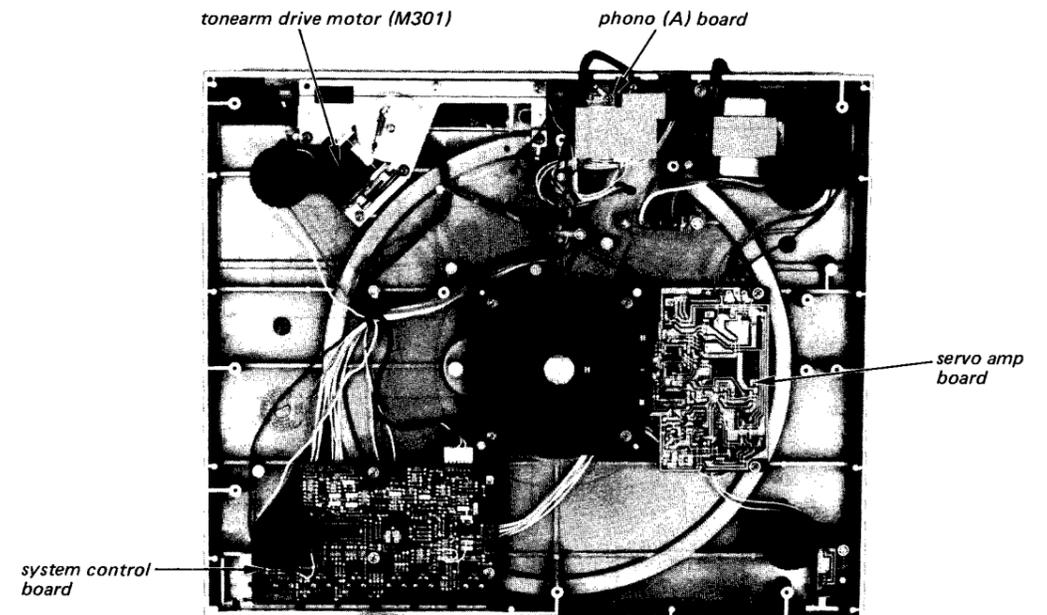


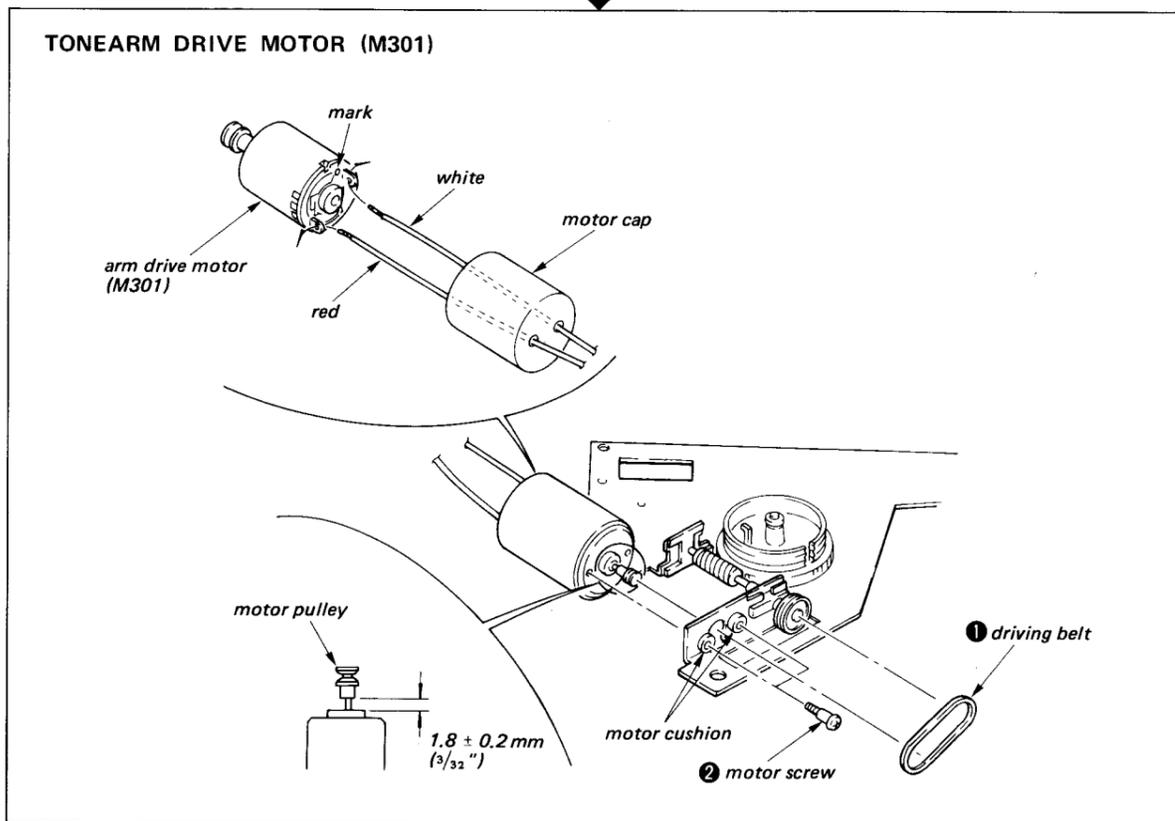
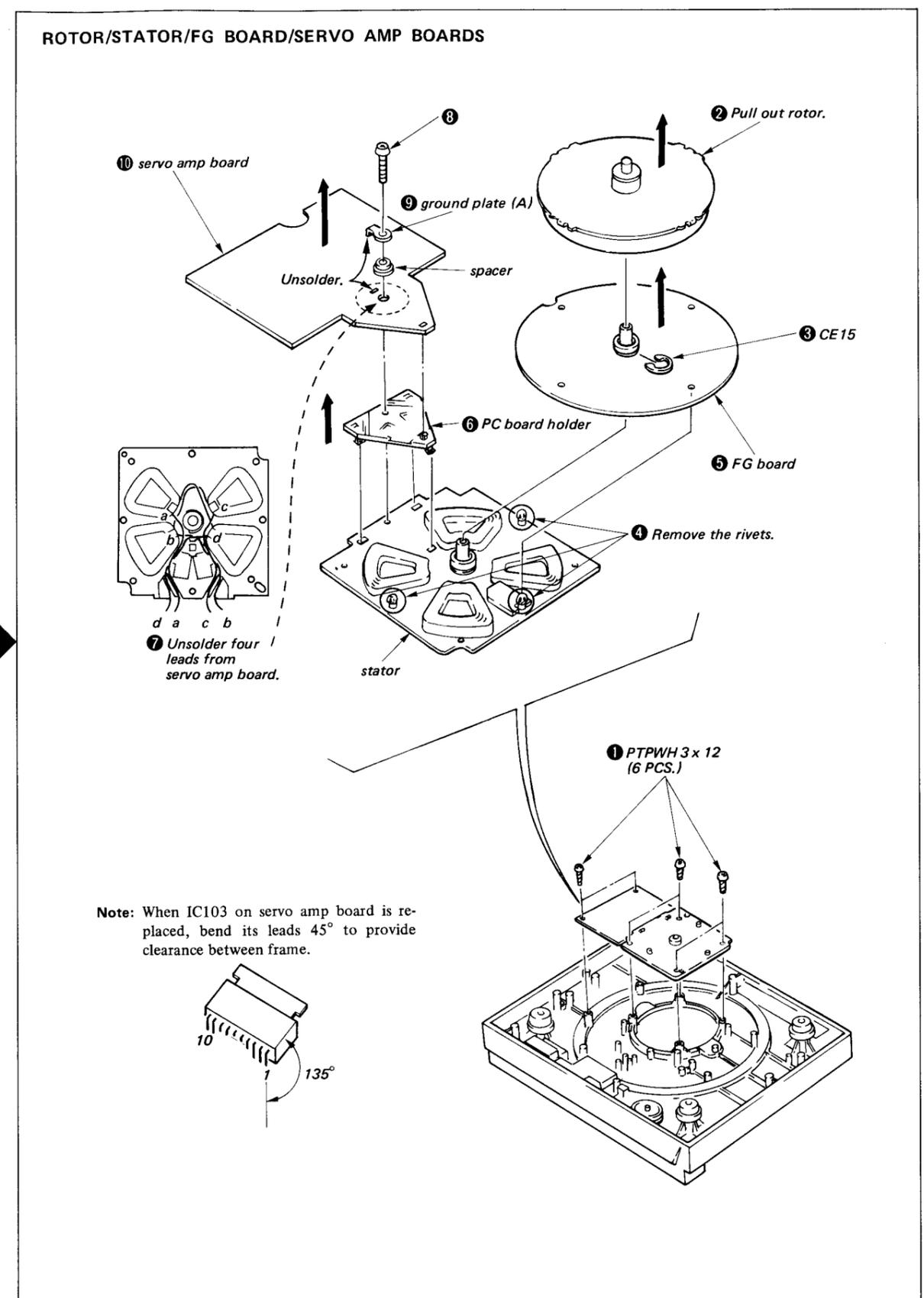
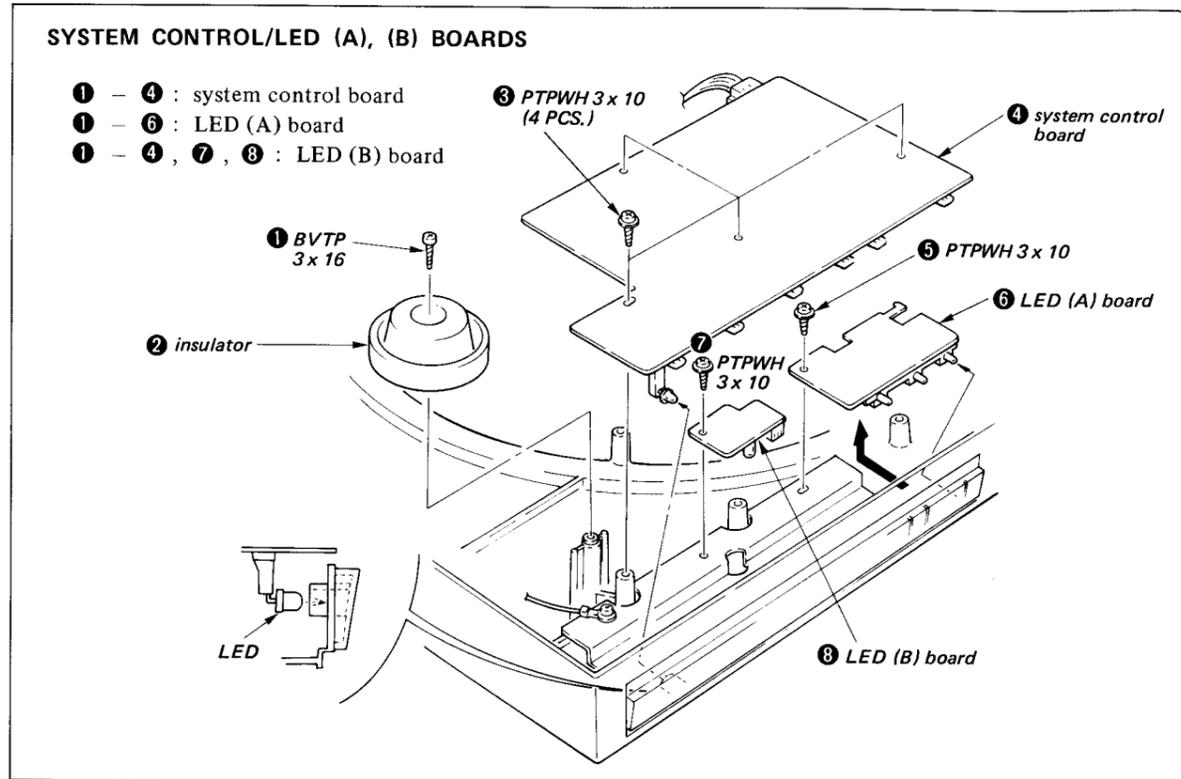
SECTION 2
DISASSEMBLY

2-1. REMOVAL Note: Follow the disassembly procedure in the numerical order given.

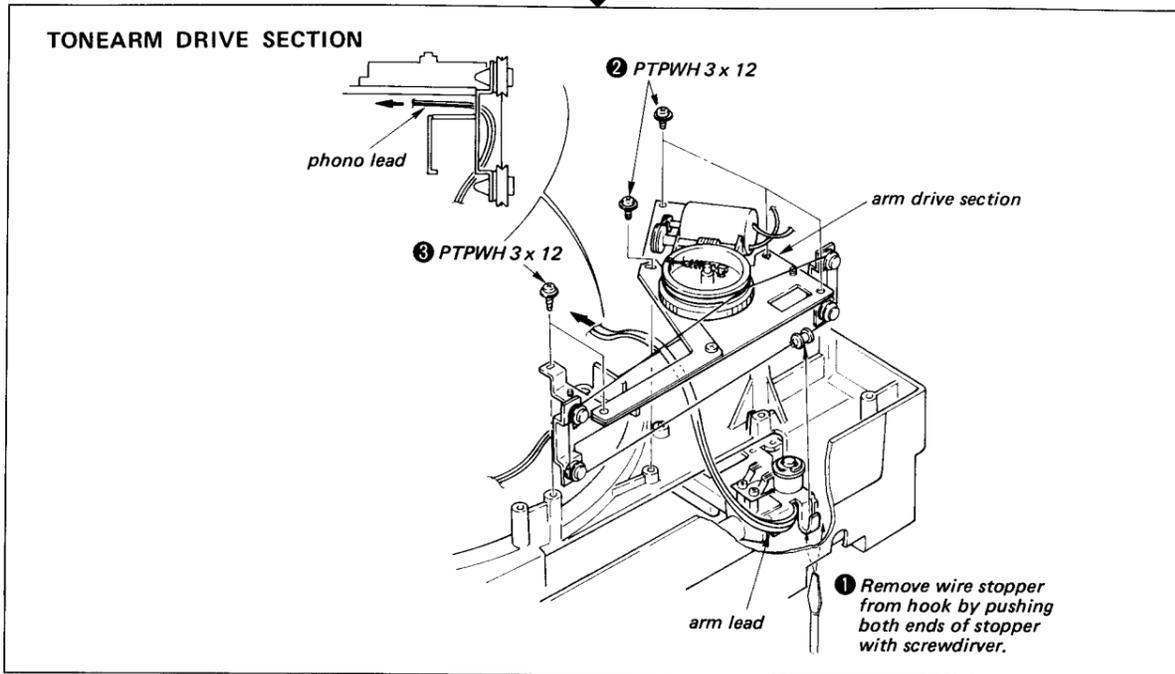


— With bottom plate removed —

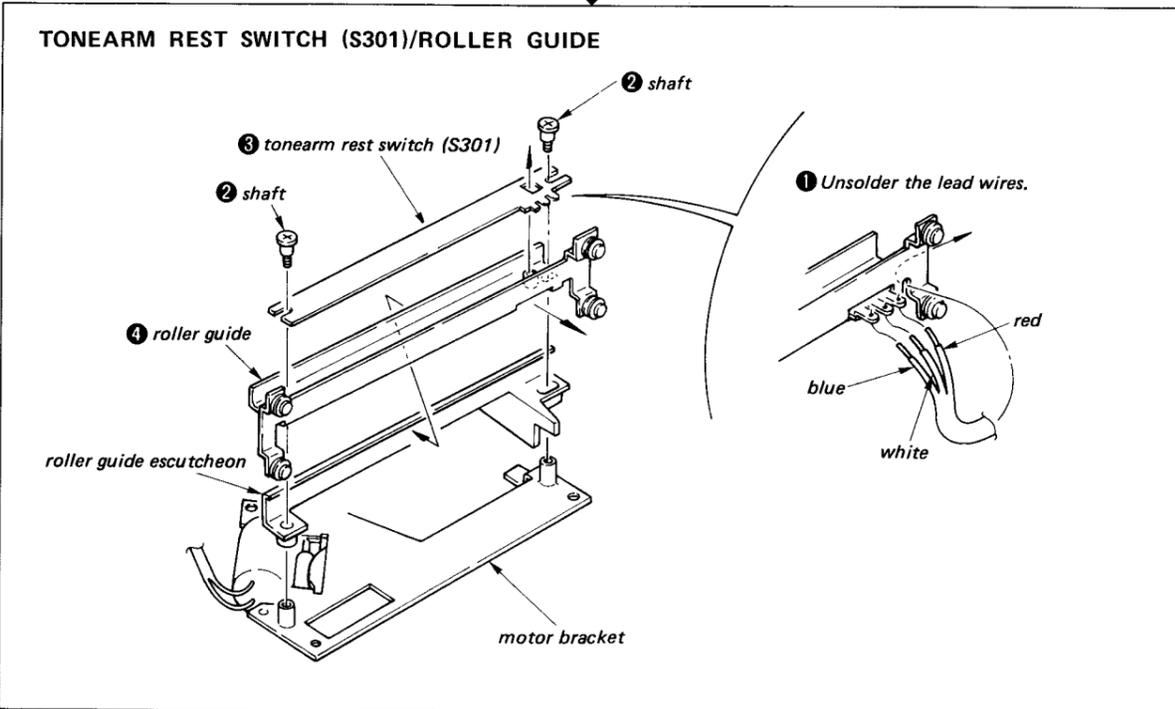




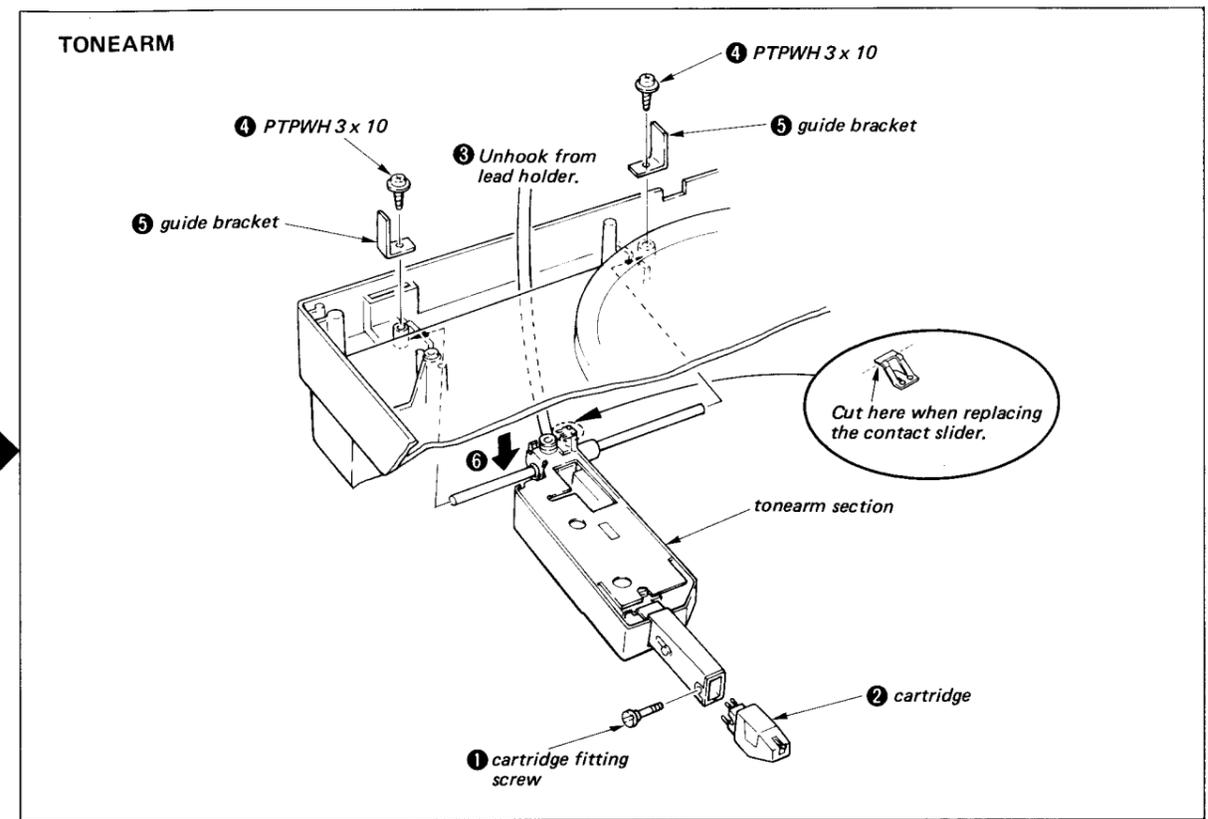
Remove the bottom plate.
(See page 7.)



TONARM DRIVE CORD STRINGING
(See page 15.)

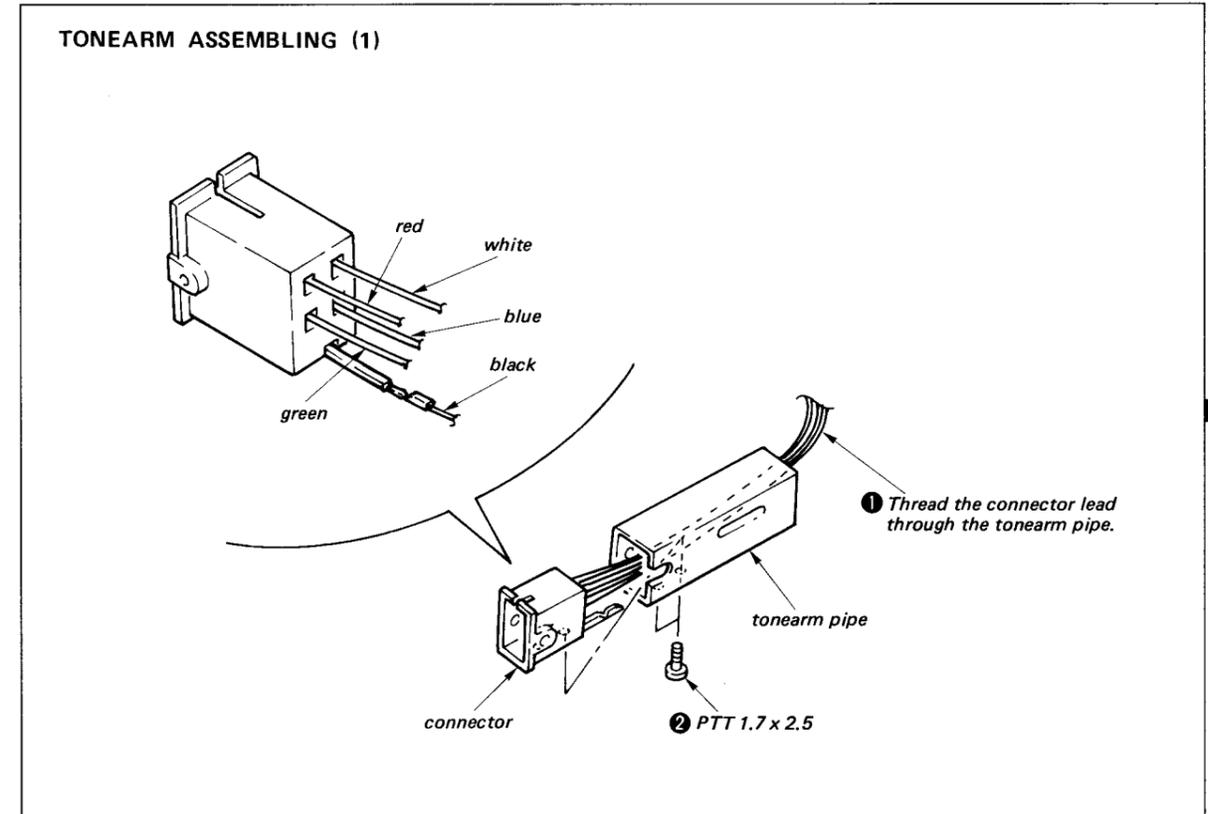


TONARM

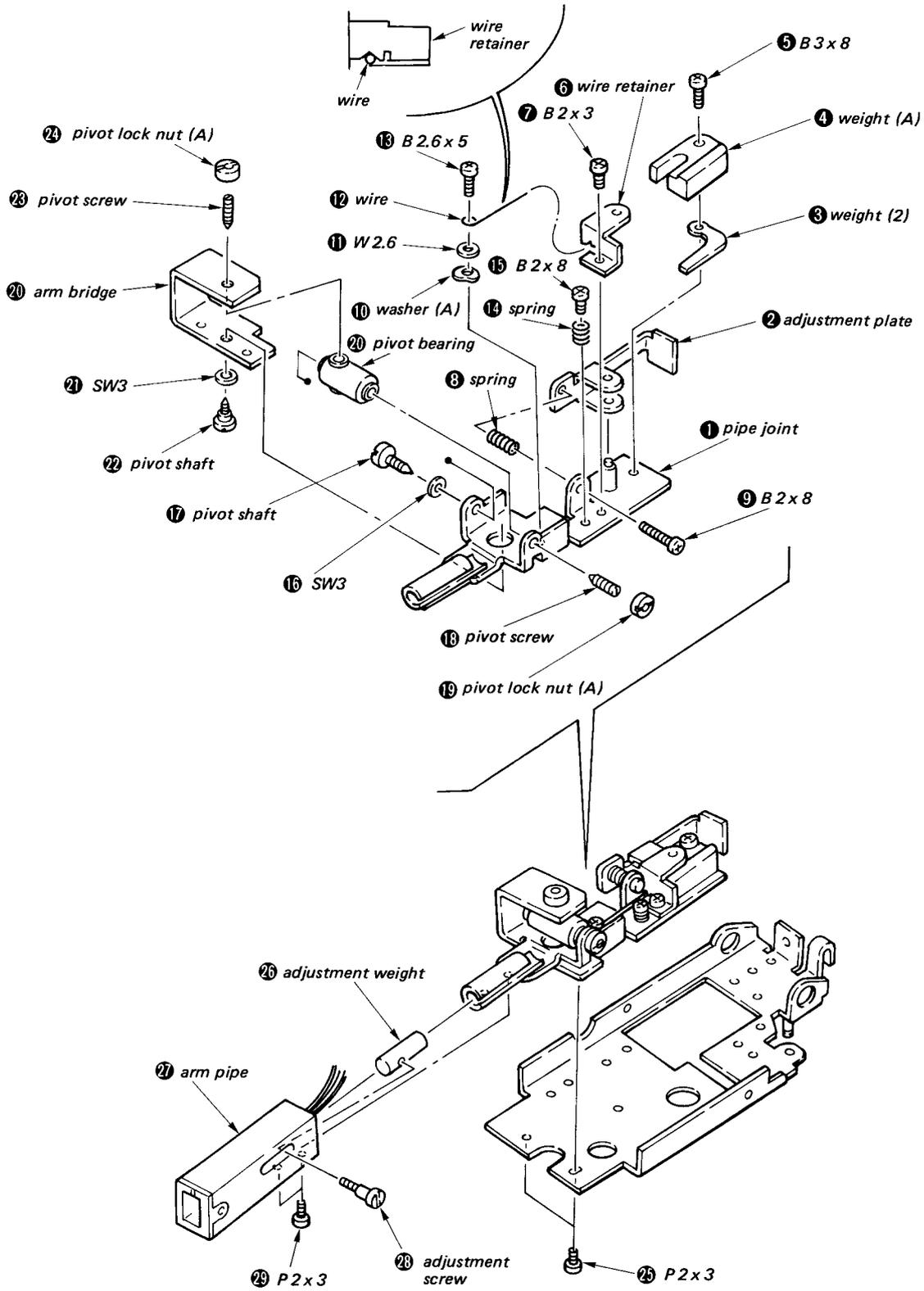


2-2. TONARM ASSEMBLING

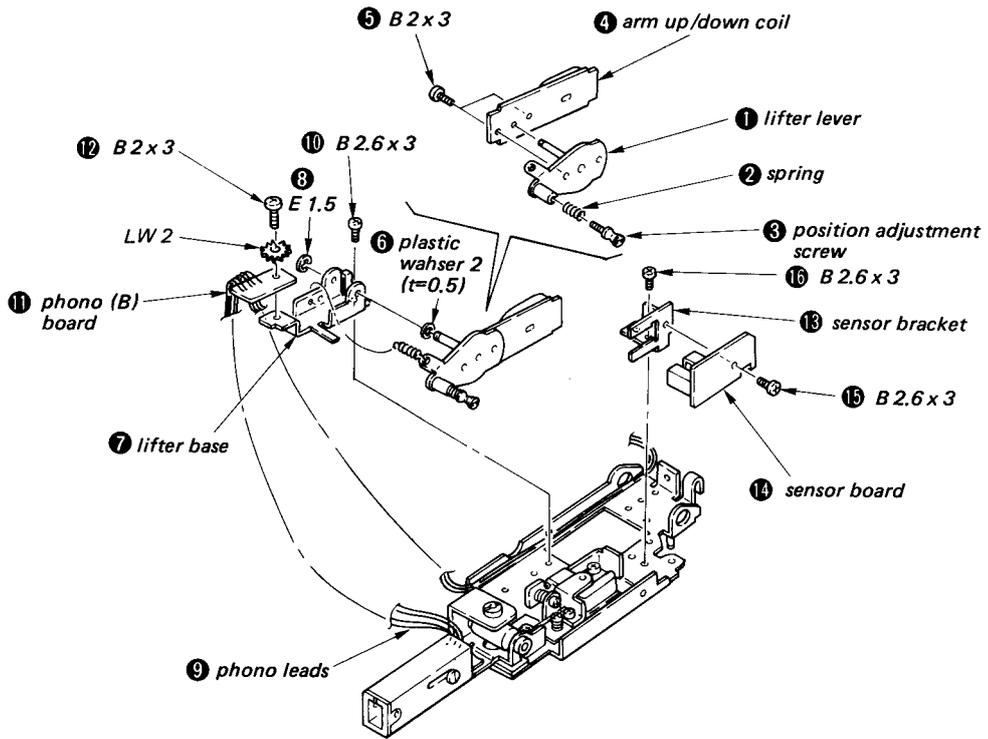
TONARM ASSEMBLING (1)



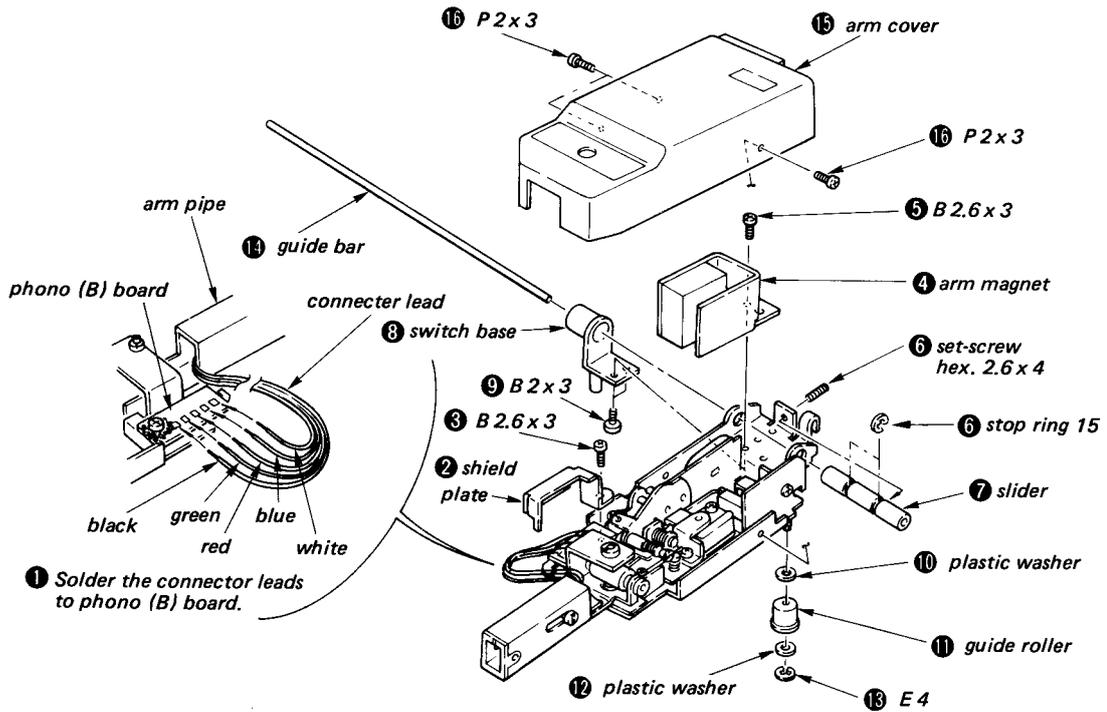
TONARM ASSEMBLING (2)



TONEARM ASSEMBLING (3)

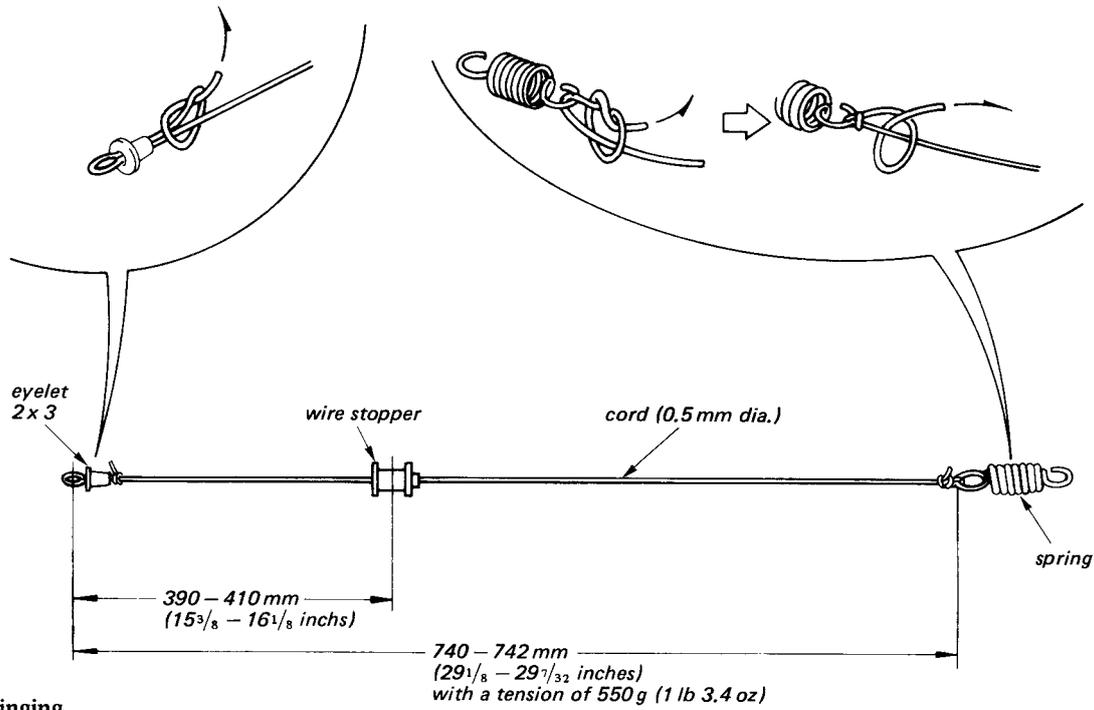


TONEARM ASSEMBLING (4)

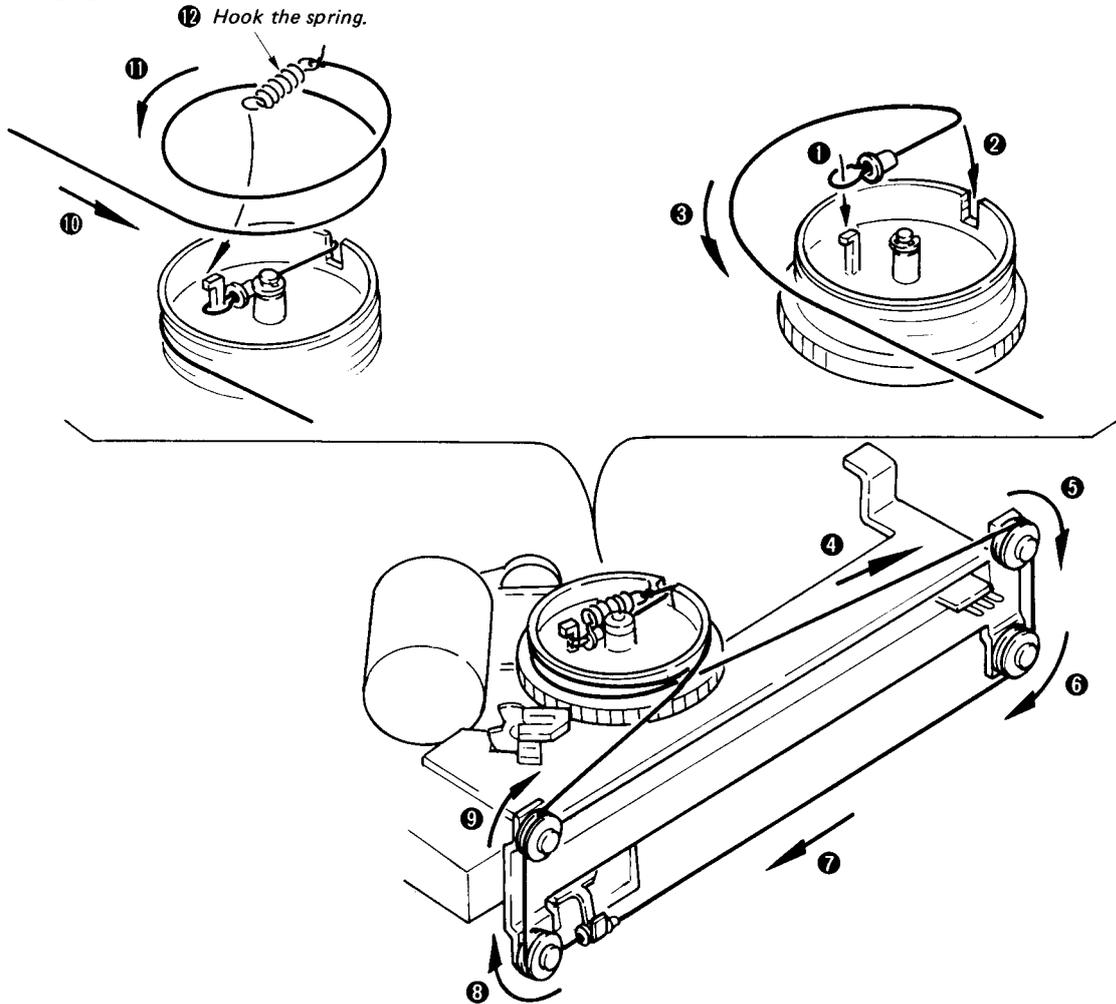


2-3. TONEARM DRIVE CORD STRINGING

(1) Preparation



(2) Stringing

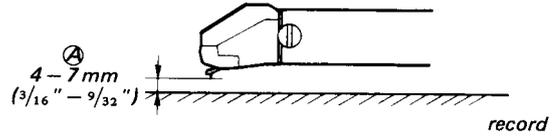


SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

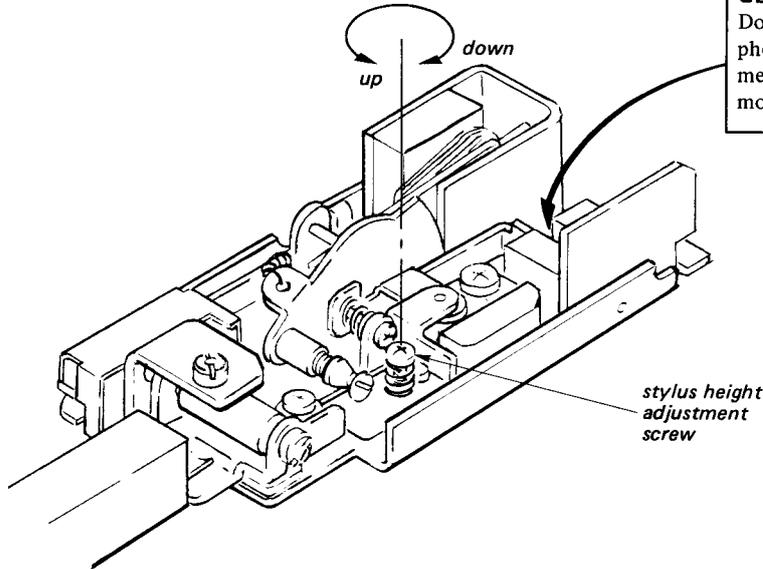
Stylus Height Adjustment

1. Put a record.
2. Press ARM TRANSPORT button (◀) and move the arm outside the record.
3. Make sure that clearance (A) is 4 – 7 mm ($\frac{3}{16}$ – $\frac{9}{32}$ inches). If necessary, adjust the stylus height adjustment screw.



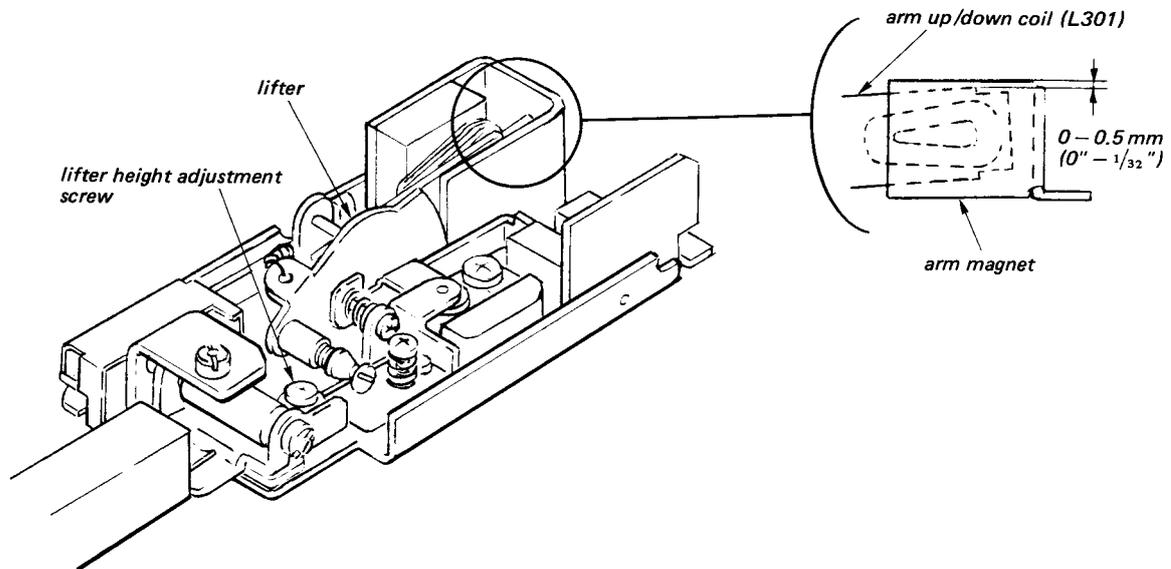
GENERAL NOTE:

Do not let a strong light get in the groove of photo interruptor during mechanical adjustment. Otherwise, misoperation of stoppage or moving may occur to the tonearm base.



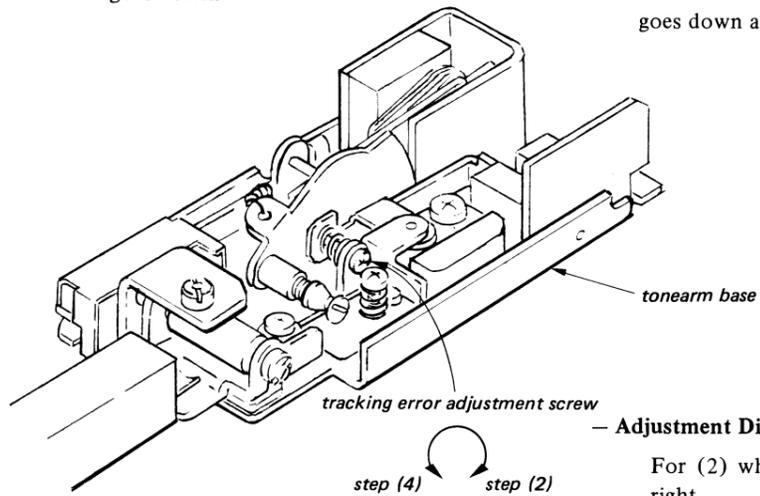
Lifter Height Adjustment

Adjust the lifter height adjustment screw so that the arm up/down coil position is 0 – 0.5 mm (0" – $\frac{1}{32}$ ") as shown below.



Tracking Error Adjustment

- (1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.
- (2) Adjust with the adjustment screw so that the tonearm base does not move just after the tonearm goes down.
- (3) After completing step (2), cause the tonearm to lead in, and then go UP after the tonearm base moves.
- (4) Check the count at this time, and then check that the difference in count when the tonearm goes down again is within 5 counts.



— Adjustment Direction —

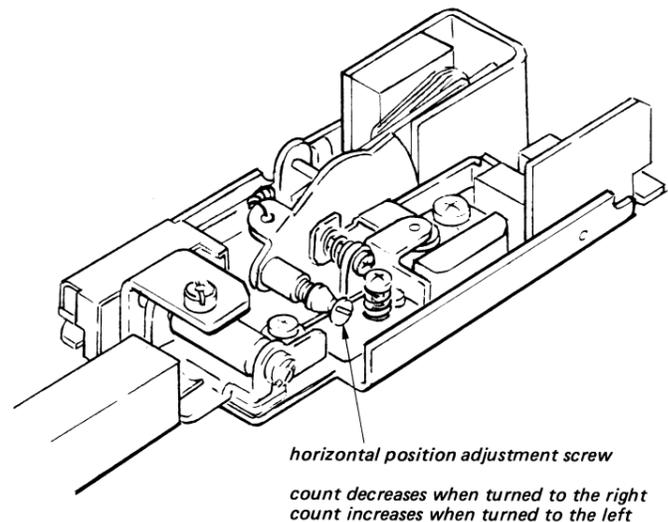
For (2) when the arm base moves, turn to the right.

For (4) when the difference in count is too large, turn to the left.

Drop Point (30 cm) Adjustment

- (1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.
- (2) Adjust the horizontal position adjustment screw so that the drop point at this time is within the specification.

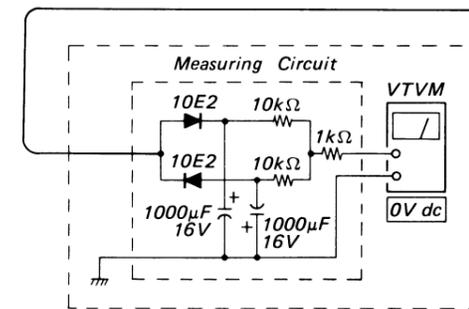
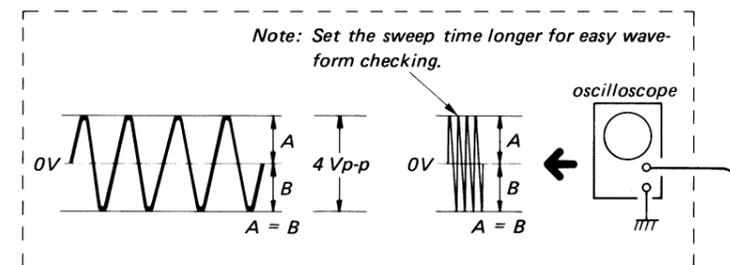
Specification: 9 – 14 counts



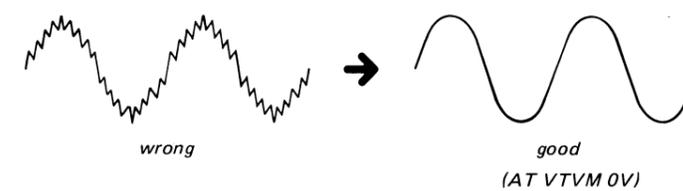
3-2. ELECTRICAL ADJUSTMENT

Gain/Offset Adjustment

1. Connect the pattern (A) to (B), and apply regulated power supply (0V DC) to point (C).
2. Connect a VOM to the emitter of Q104, and adjust the regulated power supply voltage for 1V DC.
3. Adjust RV101 (H1) and RV102 (H2) so that the terminal voltage of IC103 (9) (H1) and (1) (H2) are 4Vp-p. Gain Adjustment
4. Adjust RV103 (H1) and RV104 (H2) so that the terminal waveforms of IC103 (9) (H1) and (1) (H2) are as shown below (or so that DC potential is 0V). Offset Adjustment
5. After adjustment, remove the lead wire connecting pattern (A) to (B).



Offset Adjustment



RV103, 104

RV101, 102

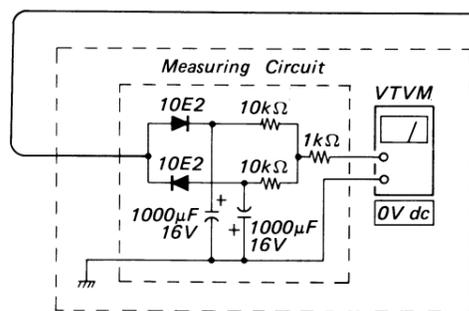
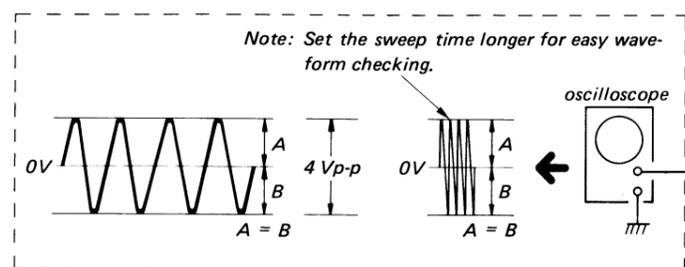
(B)

lead wire (jumper)

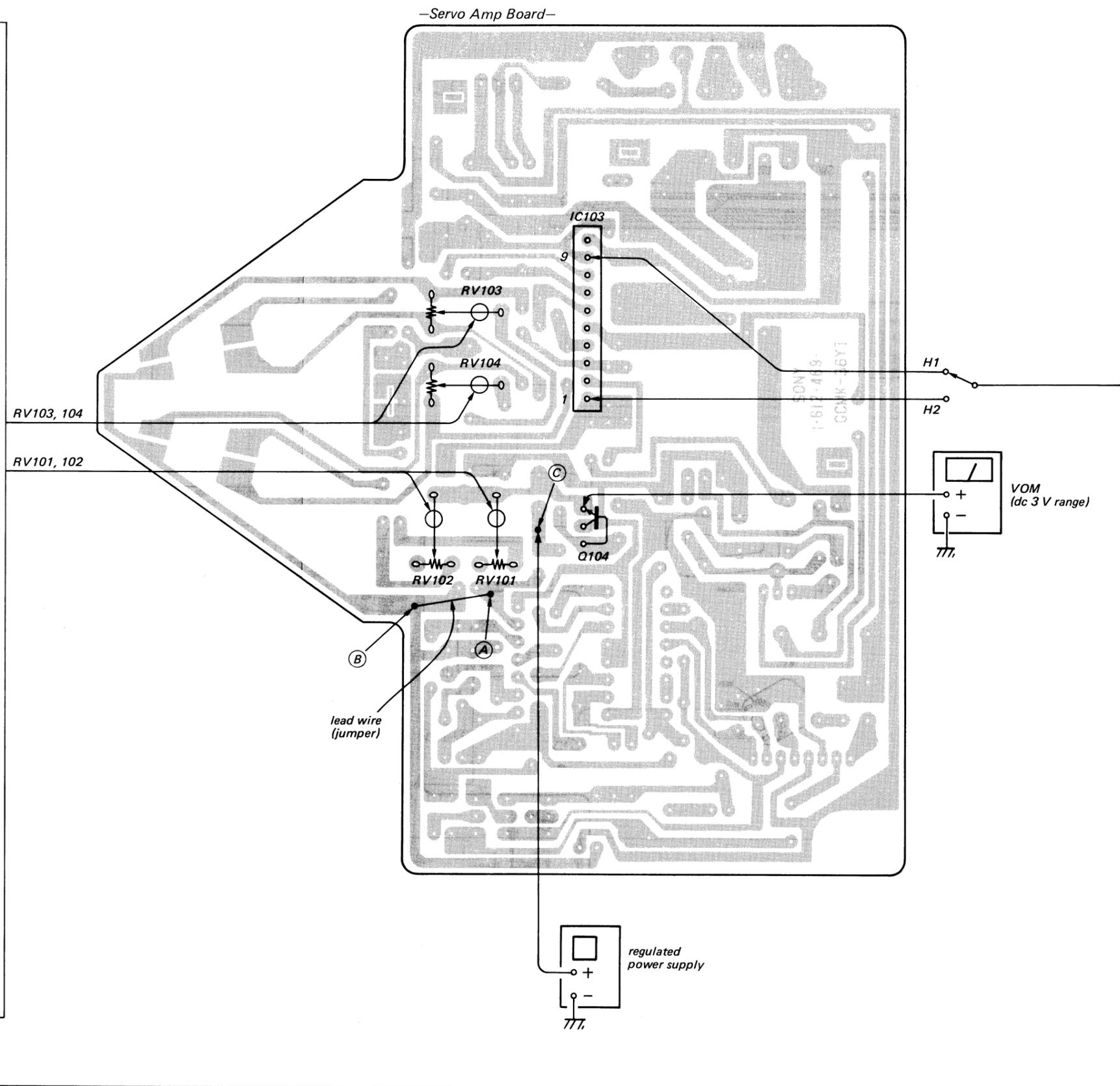
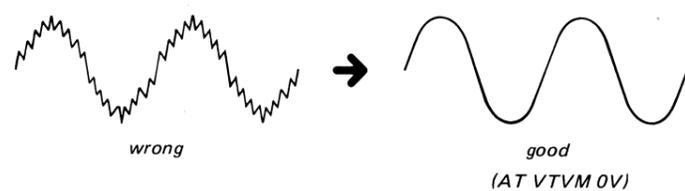
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5. After adjustment, remove the lead wire connecting pattern (A) to (B).



Offset Adjustment

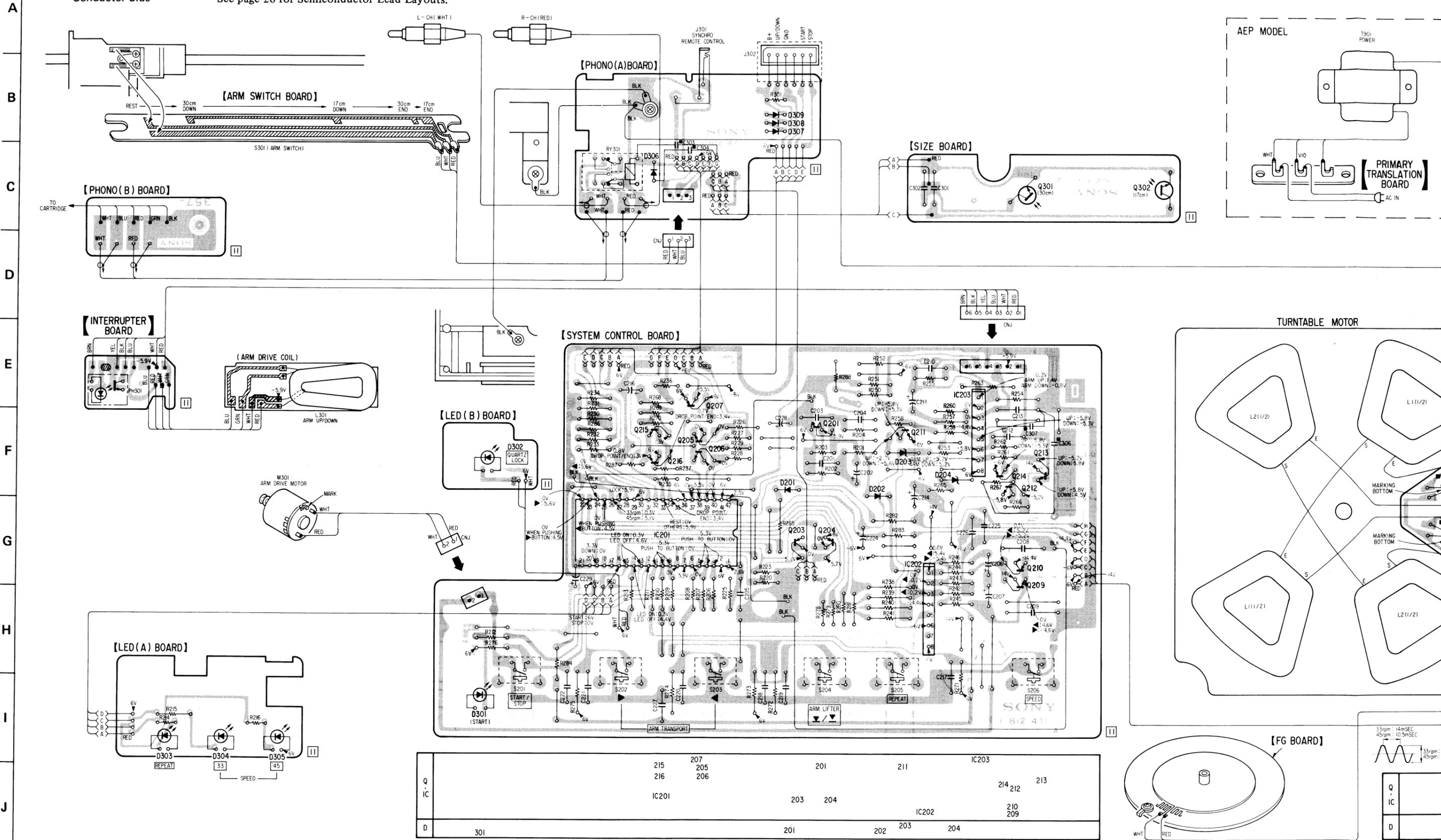


SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM

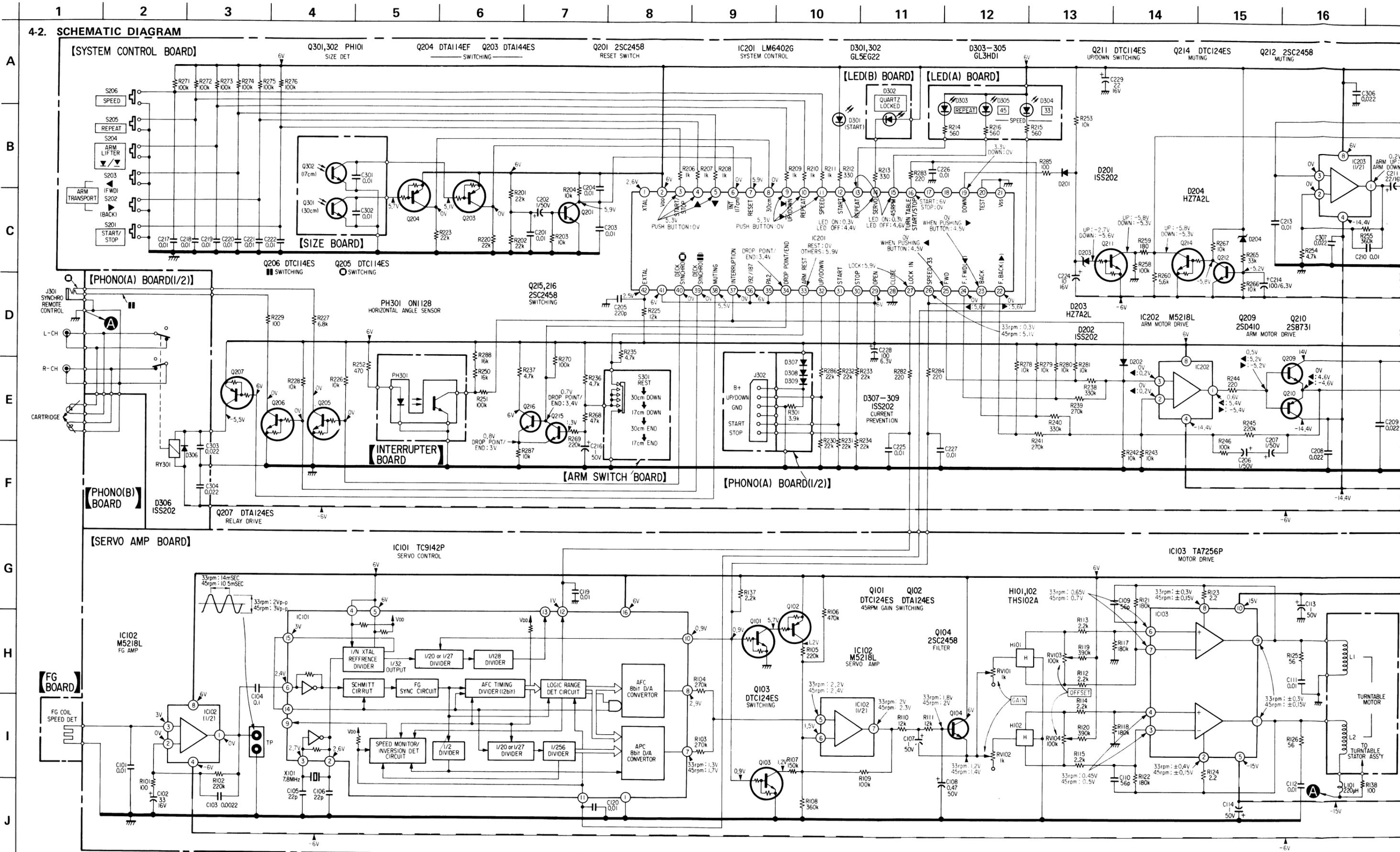
- Conductor Side -

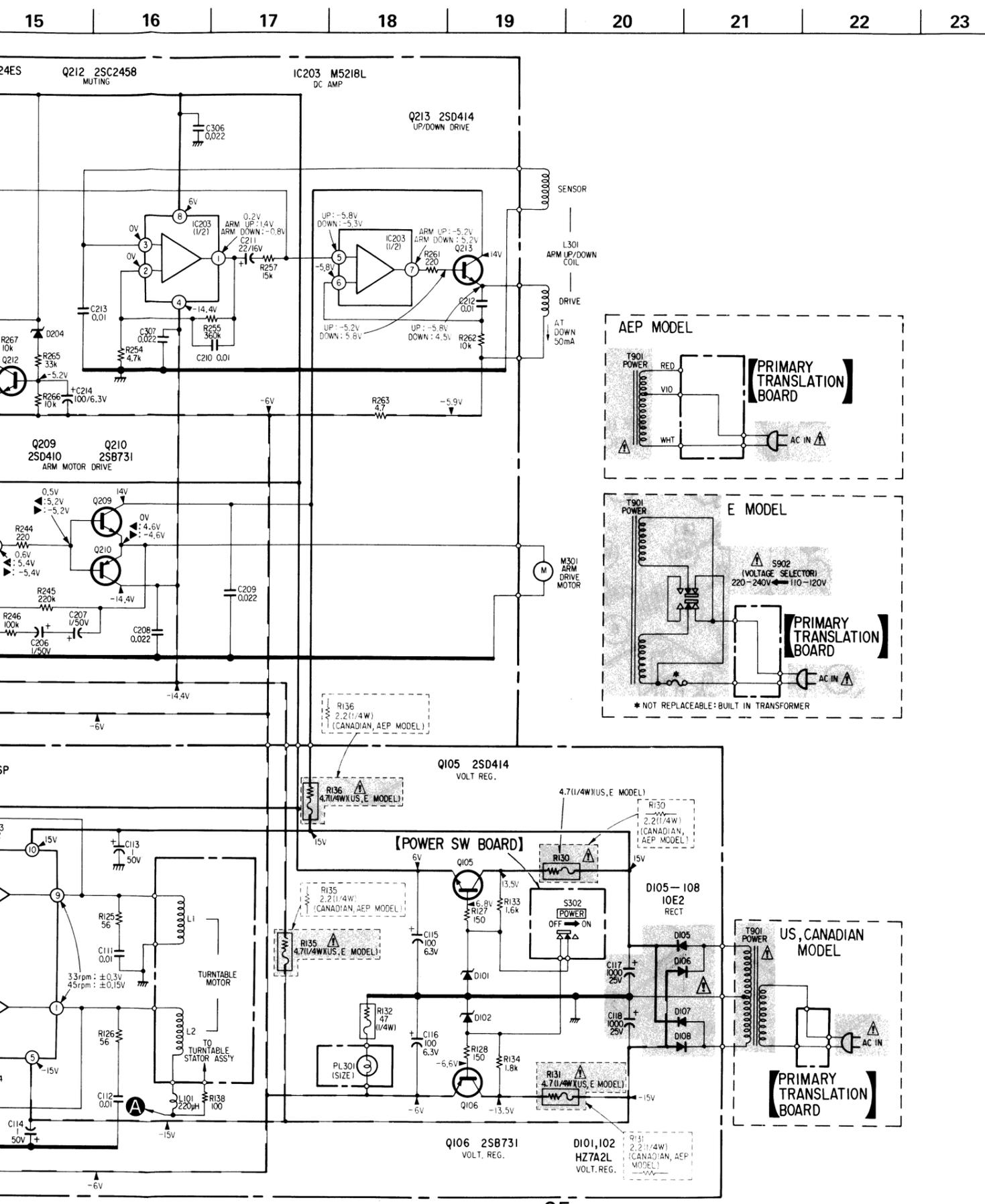
See page 26 for Semiconductor Lead Layouts.



Q	IC	215	207	201	211	IC203	213
		216	206			214 212	
		IC201		203 204		210	
D		301		201	202 203 204	209	

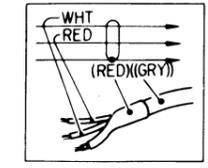
4-2. SCHEMATIC DIAGRAM





A
B
C
D
E
F
G
H
I
J

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



- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.
- : B + pattern

Note for SCHEMATIC DIAGRAM:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{6}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
- : fusible resistor.
- : transistor with resistor
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.
- Switches

Ref. No.	Switch	Position
S201	START/STOP	OFF
S202	ARM TRANSPORT	OFF
S203	ARM TRANSPORT	OFF
S204	ARM LIFTER	OFF
S205	REPEAT	OFF
S206	SPEED	OFF
S301	Arm Position Det.	REST
S302	POWER	OFF

Note: Voltages are measured with a VOM (50k Ω /V).

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

Note: 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.

• Semiconductor Lead Layouts

2SB731
2SD809

ON1128

2SC2458
DTA114ES
DTA124ES
DTA144ES
DTC124ES

TH102A
THS102A

TA7256P

PH101

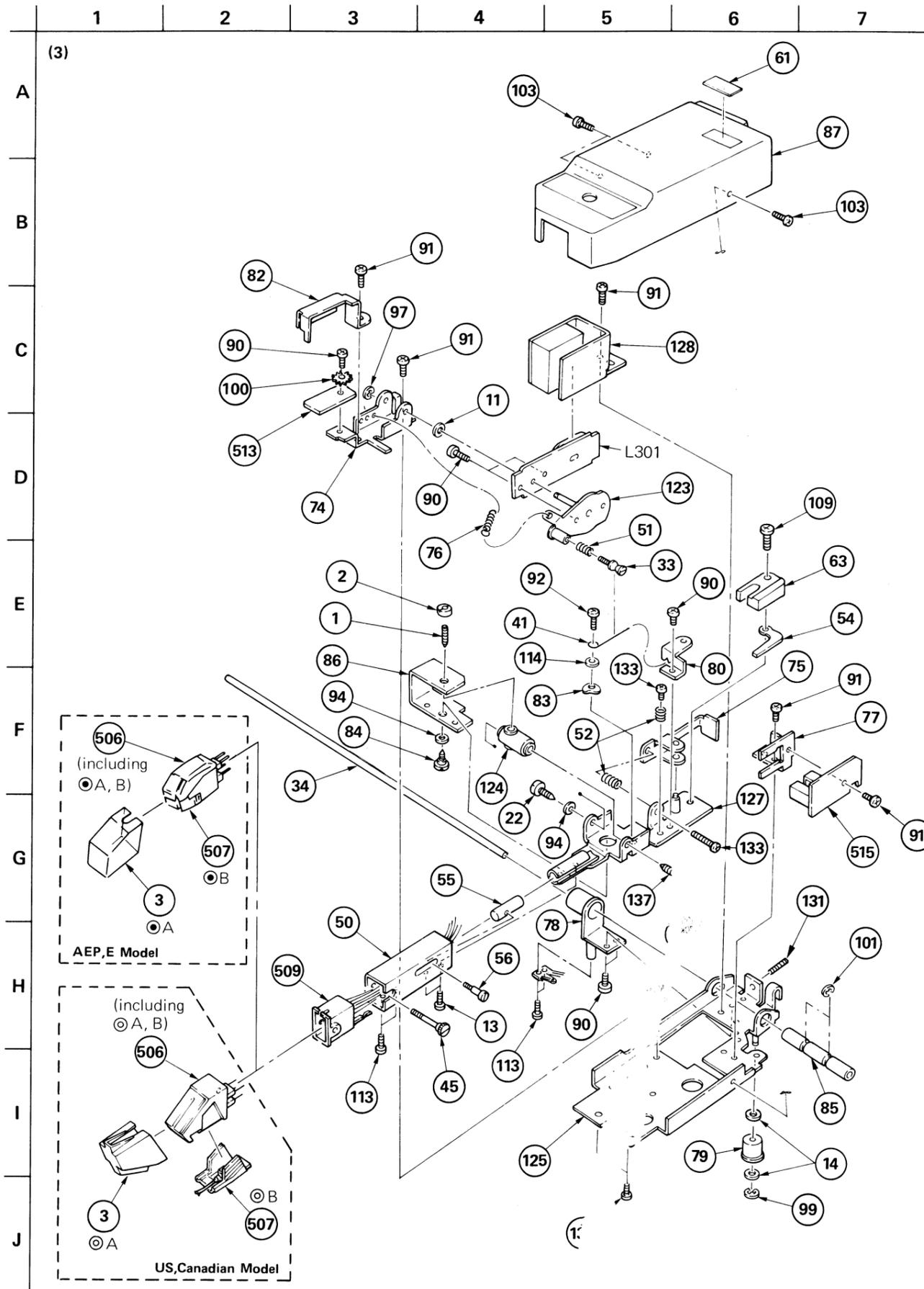
TC9142P
LM6402G-356

10E2
1SS202-1
RD6.8JN1

M5218L

GL-3HD1

GL-5EG22



GENERAL SECTION		
No.	Part No.	Description
1	2-203-518-71	SCREW, PIVOT
2	2-203-519-00	NUT (A), LOCK, PIVOT
3	2-231-824-01	(AEP,E).....COVER, STYLUS
3	4-903-347-01	(Canadian,PS-LX510C)...COVER, STYLUS
4	3-001-707-01	HOLDER, WIRE
5	3-460-077-00	CLAMP, WIRE
6	3-465-048-00	SHAFT
7	3-531-576-31	RIVET (DIA. 3), NYLON
8	3-570-027-00	SCREW, MOTOR
9	3-570-118-00	CUSHION, MOTOR
10	3-701-030-00	LABEL, SERIAL NUMBER
11	3-701-437-21	WASHER, PLASTIC, 2 (t=0.5)
12	3-701-441-01	WASHER
13	3-701-441-21	WASHER
14	3-701-443-11	WASHER, PLASTIC, 5 (t=0.25)
15	3-703-043-21	(Canadian)...LABEL, CAUTION, MAIN
16	3-703-136-00	SCREW, PTPWH 3X12
17	3-703-137-00	SCREW, PTPWH 3X10
18	3-703-677-00	(US)...LABEL, CAUTION, MAIN;NEW UL
19	3-703-705-01	STICKER, SONY SYMBOL (30)
20	4-857-642-00	HOLDER, PC BOARD
21	4-875-501-00	GUIDE, POWER KNOB
22	4-877-816-00	SHAFT, PIVOT
23	4-879-741-00	WINDOW, LAMP
24	4-881-629-00	PLATE (A), GROUND
25	4-881-636-11	SUPPORT (TMD), PC
26	4-881-683-00	(E)...LABEL, VOLTAGE
27	4-885-135-00	RETAINER, THRUST
28	4-885-183-00	CUSHION (D)
29	4-885-432-01	(AEP).....LABEL, MODEL NUMBER
29	4-887-430-01	(Canadian,US)...LABEL, MODEL NUMBER
29	4-887-434-01	(E).....LABEL, MODEL NUMBER
29	4-887-459-01	(G-AEP).....LABEL, MODEL NUMBER
30	4-885-562-11	HEAT SINK
31	4-885-703-00	GUIDE, WORM SHAFT
32	4-885-704-03	PULLEY, MOTOR
33	4-885-706-04	SCREW, ADJUSTMENT, POSITION
34	4-885-709-00	BAR, GUIDE
35	4-885-723-00	NUT, BEARING
36	4-885-724-00	BEARING
37	4-885-727-00	SPACER
38	4-885-728-00	PACKING
39	4-885-734-00	(SILVER)...BUTTON, POWER
39	4-885-734-12	(BLACK)...BUTTON, POWER
40	4-885-735-00	BELT, DRIVING
41	4-885-737-00	WIRE

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- 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 (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

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

COILS
 MMH : mH, UH : μH

SEMICONDUCTORS
 In each case, U : μ, for example:
 UA... : μA..., UPA... : μPA..., UPC... : μPC,
 UPD... : μPD...

GENERAL SECTION		
No.	Part No.	Description
42	4-885-741-00	SPACER
43	4-885-742-00	BRACKET, GUIDE
44	4-885-744-00	STOPPER, WIRE
45	4-885-746-00	SCREW, FITTING, CARTRIDGE
46	4-885-747-00	WASHER (H)
47	4-885-748-00	PIN, ADJUSTMENT
48	4-885-749-00	WHEEL, WORM
49	4-885-750-00	GUIDE, ROLLER
50	4-885-760-00	PIPE, ARM
51	4-885-764-02	SPRING, COMPRESSION
52	4-885-766-00	SPRING, COMPRESSION
53	4-885-767-00	SPRING, TENSION
54	4-885-768-00	WEIGHT (2)
55	4-885-770-00	WEIGHT, ADJUSTMENT
56	4-885-771-00	SCREW, ADJUSTMENT
57	4-885-775-00	CAP, MOTOR
58	4-885-777-00	(SILVER)...ESCUTCHEON, ROLLER GUIDE
58	4-885-777-11	(BLACK)...ESCUTCHEON, ROLLER GUIDE
59	4-885-787-00	GUIDE, LEAD WIRE
60	4-885-789-00	SPRING, TENSION
61	4-885-792-00	PLUG IN SEAL (A)
62	4-885-798-00	COVER, POWER
63	4-887-310-00	WEIGHT (A)
64	4-887-404-00	(SILVER)...HINGE
64	4-887-404-11	(BLACK)...HINGE
65	4-887-406-00	RETAINER, BUTTON, CONTROL
66	4-887-410-00	(AEP).....PLATE, BOTTOM
66	4-887-410-11	(Canadian,US)...PLATE, BOTTOM
66	4-887-410-21	(E).....PLATE, BOTTOM
67	4-887-411-21	(SILVER)...FRAME, POWER DISPLAY ON/OFF
67	4-887-411-31	(SILVER)...FRAME, POWER DISPLAY ON/STANDBY
67	4-887-411-41	(BLACK)...FRAME, POWER DISPLAY ON/OFF
67	4-887-411-51	(BLACK)...FRAME, POWER DISPLAY ON/STANDBY
68	4-887-412-21	(SILVER)...HOLDER, LAMP
68	4-887-412-11	(BLACK)...HOLDER, LAMP
69	4-887-414-00	HOLDER (A), LED
70	4-887-415-00	HOLDER (B), LED
71	
72	4-887-426-00	PLATE, SHIELD
73	4-887-429-00	SPACER
74	4-887-437-01	BASE, LIFTER
75	4-887-438-01	PLATE, ADJUSTMENT
76	4-887-439-01	SPRING, TENSION
77	4-887-440-01	BRACKET, SENSOR
78	4-887-442-01	BASE, SWITCH

GENERAL SECTION

No.	Part No.	Description
79	4-887-443-01	ROLLER, GUIDE
80	4-887-444-01	RETAINER, WIRE
81	4-887-445-01	LABEL (B), PANEL
82	4-887-446-01	PLATE, SHIELD
83	4-887-448-01	WASHER (A)
84	4-887-449-01	SHAFT, PIVOT
85	4-887-451-01	SLIDER
86	4-887-454-01	BRIDGE, ARM
87	4-887-456-21	COVER, ARM
88	7-621-255-10	SCREW +P 2X3
89	7-621-735-09	SET-SCT, HEX. 2.6X4
90	7-621-772-00	SCREW +B 2X3
91	7-621-775-00	SCREW +B 2.6X3
92	7-621-775-20	SCREW +B 2.6X5
93	7-621-775-40	SCREW +B 2.6X8
94	7-623-208-22	SW 3, TYPE 2
95	7-623-422-07	LW 3, TYPE B
96	7-623-616-01	EYELET, 2X3
97	7-624-102-04	STOP RING 1.5, TYPE -E
98	7-624-106-04	STOP RING 3.0, TYPE -E
99	7-624-108-04	STOP RING 4.0, TYPE -E
100	7-623-420-07	LW2
101	7-624-133-94	STOP RING 15, TYPE-CE
102	7-624-190-81	STOP RING 2, TYPE-CS
103	7-627-553-37	SCREW, PRECISION +P 2X3
104	9-911-825-42	CORD, TETRON DIAL (0.5MM)
105	7-682-149-13	SCREW +P 3X10
106	7-682-545-04	SCREW +B 3X4
107	7-682-547-04	SCREW +B 3X6
108	7-682-547-09	SCREW +B 3X6
109	7-682-548-09	SCREW +B 3X8
110	7-685-134-14	SCREW +P 2.6X8 TYPE2 NON-SLIT
111	7-685-147-21	SCREW +P 3X10 TYPE2 SLIT
112	7-685-650-21	SCREW +BVTPT 3X16 TYPE2 SLIT
113	7-685-799-04	SCREW +PTT 1.7X2.5
114	7-688-002-01	W 2.6, SMALL
115	A-4608-232-A	ROTOR ASSY
116	X-4856-325-0	PULLEY ASSY
117	X-4885-702-0	BRACKET ASSY, MOTOR
118	X-4885-704-3	INSULATOR ASSY
119	X-4885-710-0	WORM ASSY
120	X-4887-402-0	COVER ASSY, DUST
121	X-4887-403-0	(SILVER)...PANEL ASSY, SUB
121	X-4887-403-2	(BLACK)...PANEL ASSY, SUB

GENERAL SECTION

No.	Part No.	Description
122	X-4887-404-0	BUTTON ASSY, CONTROL
123	X-4887-409-1	LEVER ASSY, LIFTER
124	X-4887-411-1	BEARING ASSY, PIVOT
125	X-4887-412-	BASE ASSY, ARM
126	X-4887-413-1	STATOR ASSY
127	X-4887-414-1	JOINT ASSY, PIPE (WITH STYLUS PRESSURE GUIDE)
128	X-4887-415-1	MAGNET ASSY, ARM
129	7-685-135-11	SCREW +PTP 2.6X10
130	4-903-328-01	WINDOW, LED
131	7-621-735-09	SET-SCREW, WP, 2.6X4
132	7-623-553-37	SCREW +P 2X3
133	7-621-772-40	SCREW +B 2X8
134	3-831-441-XX	SPACER
135	3-703-845-01	(US,Canadian)...LABEL (N), CAUTION, MAIN
136	3-703-680-00	(US)...LABEL, CAUTION, SUB;NEW UL
137	2-203-518-61	SCREW, PIVOT

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	3-565-234-00	BAG, PROTECTION
152	3-701-616-00	(US)...BAG, POLYETHYLENE
153	3-701-630-00	BAG, POLYETHYLENE
154	3-701-634-00	BAG, POLYETHYLENE
155	3-701-806-00	ADAPTOR, 45, (E)
156	3-703-137-00	SCREW, TAPPING
157	3-773-819-11	(AEP,E)...MANUAL, INSTRUCTION
158	3-773-819-21	(Canadian,US)...MANUAL, INSTRUCTION;ENGLISH
159	3-773-819-31	(Canadian)...MANUAL, INSTRUCTION;FRENCH
160	3-773-819-41	(AEP)...MANUAL, INSTRUCTION;DUTCH/SWEDISH
161	3-795-753-21	(US)...INSTRUCTION
162	4-350-525-00	SHEET, PROTECTION
163	4-880-101-00	PLATE (B), PROTECTION
164	4-883-720-00	TURNTABLE
165	4-883-723-01	(AEP,E)...SHEET, TURNTABLE
165	4-883-723-11	(Canadian,US)...SHEET, TURNTABLE
166	4-885-779-00	BOLSTER, ARM
167	4-885-780-00	CUSHION, ARM
168	4-885-782-00	PROTECTOR (B)
169	4-887-309-11	LABEL (A), CAUTION
170	4-887-420-00	CUSHION (RIGHT)
171	4-887-421-00	CUSHION (LEFT)
172	4-887-423-00	HOLDER, TURNTABLE
173	4-887-441-01	COVER, ARM LOCK
174	4-887-458-01	(PS-LX510)...INDIVIDUAL CARTON
175	4-887-460-01	(PS-LX510C)...INDIVIDUAL CARTON

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Tolerance	Voltage
501	1-508-802-00	BASE POST U TYPE			
502	1-508-878-00	BASE POST			
503	1-508-880-00	BASE POST, MCD CONNECTOR 6P			
504	1-526-565-00	(E).....AC PLUG ADAPTOR			
505	1-534-817-XX	(AEP).....CORD, POWER			
505	1-551-472-00	(E).....CORD, POWER			
505	1-551-506-XX	(Canadian,US)...CORD, POWER			
506	1-549-117-00	(Canadian;PS-LX510C) ...CARTRIDGE(VL-45G)			
506	A-4505-089-C	(AEP,E) ...CARTRIDGE COMPLETE ASSY (XL-250G)			
507	1-549-118-11	(Canadian;PS-LX510C) ...STYLUS ASSY, ND-145G			
507	A-4587-071-C	(AEP,E)...STYLUS ASSY, ND-250G			
508	1-551-294-00	CORD			
509	1-556-552-00	CONNECTOR (PLUG IN TYPE)			
510	1-560-200-00	BASE POST, MCD CONNECTOR 2P			
511	1-564-496-11	PIN, CONNECTOR 3P			
512	1-564-501-11	PIN, CONNECTOR 8P			
513	1-608-536-00	PC BOARD, PRIMARY TRANSLATION			
514	1-608-883-00	PC BOARD, FG			
515	1-612-356-11	PC BOARD, SENSOR			
516	1-612-357-11	PC BOARD, PHONO (B)			
517	1-612-470-11	PC BOARD, PUSH SWITCH			
518	A-4619-241-A	(Canadian,AEP)...MOUNTED PCB, SERVO			
518	A-4619-242-A	(E,US)...MOUNTED PCB, SERVO			
519	A-4644-203-A	MOUNTED PCB, SYSTEM CONTROL			
C101	1-162-113-00	CERAMIC	0.01MF	30%	16V
C102	1-123-318-00	ELECT	33MF	20%	16V
C103	1-162-111-00	CERAMIC	0.0022MF	30%	25V
C104	1-161-974-00	CERAMIC	0.1MF	0	16V
C105	1-162-052-00	CERAMIC	22PF	5%	50V
C106	1-162-052-00	CERAMIC	22PF	5%	50V
C107	1-123-380-00	ELECT	1MF	20%	50V
C108	1-123-379-00	ELECT	0.47MF	20%	50V
C109	1-162-031-00	CERAMIC	56PF	5%	50V
C110	1-162-031-00	CERAMIC	56PF	5%	50V
C111	1-162-113-00	CERAMIC	0.01MF	30%	16V
C112	1-162-113-00	CERAMIC	0.01MF	30%	16V
C113	1-123-380-00	ELECT	1MF	20%	50V
C114	1-123-380-00	ELECT	1MF	20%	50V
C115	1-123-295-00	ELECT	100MF	20%	6.3V
C116	1-123-295-00	ELECT	100MF	20%	6.3V
C117	1-123-337-00	ELECT	1000MF	20%	25V
C118	1-123-337-00	ELECT	1000MF	20%	25V
C119	1-130-483-00	MYLAR	0.01MF	5%	50V
C120	1-130-483-00	MYLAR	0.01MF	5%	50V
C201	1-162-113-00	CERAMIC	0.01MF	30%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Tolerance	Voltage
C202	1-123-380-00	ELECT	1MF	20%	50V
C203	1-162-113-00	CERAMIC	0.01MF	30%	16V
C204	1-162-113-00	CERAMIC	0.01MF	30%	16V
C205	1-162-102-00	CERAMIC	220PF	10%	50V
C206	1-123-380-00	ELECT	1MF	20%	50V
C207	1-123-380-00	ELECT	1MF	20%	50V
C208	1-161-494-00	CERAMIC	0.022MF	30%	25V
C209	1-161-494-00	CERAMIC	0.022MF	30%	25V
C210	1-162-113-00	CERAMIC	0.01MF	30%	16V
C211	1-123-330-00	ELECT	22MF	20%	16V
C212	1-162-113-00	CERAMIC	0.01MF	30%	16V
C213	1-162-113-00	CERAMIC	0.01MF	30%	16V
C214	1-123-295-00	ELECT	100MF	20%	6.3V
C216	1-123-380-00	ELECT	1MF	20%	50V
C217	1-162-113-00	CERAMIC	0.01MF	30%	16V
C218	1-162-113-00	CERAMIC	0.01MF	30%	16V
C219	1-162-113-00	CERAMIC	0.01MF	30%	16V
C220	1-162-113-00	CERAMIC	0.01MF	30%	16V
C221	1-162-113-00	CERAMIC	0.01MF	30%	16V
C222	1-162-113-00	CERAMIC	0.01MF	30%	16V
C224	1-123-356-00	ELECT	10MF	20%	16V
C225	1-162-113-00	CERAMIC	0.01MF	30%	16V
C226	1-162-113-00	CERAMIC	0.01MF	30%	16V
C227	1-162-113-00	CERAMIC	0.01MF	30%	16V
C228	1-123-295-00	ELECT	100MF	20%	6.3V
C229	1-123-330-00	ELECT	22MF	20%	16V
C301	1-162-113-00	CERAMIC	0.01MF	30%	16V
C302	1-162-113-00	CERAMIC	0.01MF	30%	16V
C303	1-161-494-00	CERAMIC	0.022MF	30%	25V
C304	1-161-494-00	CERAMIC	0.022MF	30%	25V
C306	1-161-494-00	CERAMIC	0.022MF	30%	25V
C307	1-161-494-00	CERAMIC	0.022MF	30%	25V
D101	8-719-103-36	DIODE RD6.8JN1			
D102	8-719-103-36	DIODE RD6.8JN1			
D105	8-719-200-02	DIODE 10E-2			
D106	8-719-200-02	DIODE 10E-2			
D107	8-719-200-02	DIODE 10E-2			
D108	8-719-200-02	DIODE 10E-2			
D201	8-719-107-94	DIODE 1SS202-1			
D202	8-719-107-94	DIODE 1SS202-1			
D203	8-719-103-36	DIODE RD6.8JN1			
D204	8-719-103-36	DIODE RD6.8JN1			
D301	8-719-907-36	DIODE GL-5EG22			
D302	8-719-907-36	DIODE GL-5EG22			

NOTE:
 The mechanical parts with no reference number in the exploded views are not supplied.
 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 (A-4608-232-XX or A-4608-232-X) may be different from those used in the set.
 If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
 All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μ F, PF: μ F.
 COILS
 MMH : mH, UH : μ H
 SEMICONDUCTORS
 In each case, U : μ , for example:
 UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,
 UPD...: μ PD...

NOTE:
 The mechanical parts with no reference number in the exploded views are not supplied.
 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 (A-4608-232-XX or A-4608-232-X) may be different from those used in the set.
 If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
 All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μ F, PF: μ F.
 COILS
 MMH : mH, UH : μ H
 SEMICONDUCTORS
 In each case, U : μ , for example:
 UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,
 UPD...: μ PD...

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
D303	8-719-904-31	DIODE GL-3HD1
D304	8-719-904-31	DIODE GL-3HD1
D305	8-719-904-31	DIODE GL-3HD1
D306	8-719-107-94	DIODE 1SS202-1
D307	8-719-107-94	DIODE 1SS202-1
D308	8-719-107-94	DIODE 1SS202-1
D309	8-719-107-94	DIODE 1SS202-1
H101	8-719-800-17	THS102A
H102	8-719-800-17	THS102A
IC101	8-759-201-58	IC TC9142P
IC102	8-759-600-02	IC M5218L
IC103	8-759-202-01	IC TA7256P
IC201	8-759-801-03	IC LM6402G-356
IC202	8-759-600-02	IC M5218L
IC203	8-759-600-02	IC M5218L
J301	1-507-813-00	JACK, SYNCHRO REMOTE CONTROL
J302	1-560-317-00	CONNECTOR PIN 6P, REMOTE
L101	1-408-579-00	MICRO INDUCTOR 220UH
L301	1-422-162-11	COIL, ARM UP/DOWN
M301	1-541-218-00	MOTOR, ARM DRIVE
PH301	8-719-411-28	ON1128
PL301	1-518-169-XX	LAMP, PILOT
Q101	8-719-900-36	TRANSISTOR DTC124ES
Q102	8-719-900-63	TRANSISTOR DTA124ES
Q103	8-719-900-36	TRANSISTOR DTC124ES
Q104	8-719-245-83	TRANSISTOR 2SC2458
Q105	8-719-180-93	TRANSISTOR 2SD809
Q106	8-719-173-13	TRANSISTOR 2SB731
Q201	8-719-245-83	TRANSISTOR 2SC2458
Q203	8-719-900-63	TRANSISTOR DTA144ES
Q204	8-719-900-61	TRANSISTOR DTA114ES
Q205	8-719-900-61	TRANSISTOR DTA114ES
Q206	8-719-900-61	TRANSISTOR DTA114ES
Q207	8-719-900-63	TRANSISTOR DTA124ES
Q209	8-719-180-93	TRANSISTOR 2SD809
Q210	8-719-173-12	TRANSISTOR 2SB731
Q211	8-719-900-61	TRANSISTOR DTA114ES
Q212	8-719-245-83	TRANSISTOR 2SC2458
Q213	8-719-180-93	TRANSISTOR 2SD809
Q214	8-719-900-63	TRANSISTOR DTA124ES
Q215	8-719-245-83	TRANSISTOR 2SC2458
Q216	8-719-245-83	TRANSISTOR 2SC2458
Q301	8-719-101-01	TRANSISTOR PH101
Q302	8-719-101-01	TRANSISTOR PH101

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R101	1-247-807-00	CARBON	100	5%	1/6W
R102	1-247-887-00	CARBON	220K	5%	1/6W
R103	1-247-889-00	CARBON	270K	5%	1/6W
R104	1-247-889-00	CARBON	270K	5%	1/6W
R105	1-247-887-00	CARBON	220K	5%	1/6W
R106	1-247-895-00	CARBON	470K	5%	1/6W
R107	1-247-883-00	CARBON	150K	5%	1/6W
R108	1-247-892-00	CARBON	360K	5%	1/6W
R109	1-247-879-00	CARBON	100K	5%	1/6W
R110	1-247-857-00	CARBON	12K	5%	1/6W
R111	1-247-857-00	CARBON	12K	5%	1/6W
R112	1-247-839-00	CARBON	2.2K	5%	1/6W
R113	1-247-839-00	CARBON	2.2K	5%	1/6W
R114	1-247-839-00	CARBON	2.2K	5%	1/6W
R115	1-247-839-00	CARBON	2.2K	5%	1/6W
R117	1-247-885-00	CARBON	180K	5%	1/6W
R118	1-247-885-00	CARBON	180K	5%	1/6W
R119	1-247-893-00	CARBON	390K	5%	1/6W
R120	1-247-893-00	CARBON	390K	5%	1/6W
R121	1-247-885-00	CARBON	180K	5%	1/6W
R122	1-247-885-00	CARBON	180K	5%	1/6W
R123	1-247-767-00	CARBON	2.2	5%	1/6W
R124	1-247-767-00	CARBON	2.2	5%	1/6W
R125	1-247-801-00	CARBON	56	5%	1/6W
R126	1-247-801-00	CARBON	56	5%	1/6W
R127	1-247-811-00	CARBON	150	5%	1/6W
R128	1-247-811-00	CARBON	150	5%	1/6W
R130	1-202-850-00	(Canadian,AEP)...COMPOSITION 2.2	1/4W		
R130	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R131	1-202-850-00	(Canadian,AEP)...COMPOSITION 2.2	1/4W		
R131	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R132	1-217-395-00	FUSIBLE	47	5%	1/4W F
R133	1-247-836-00	CARBON	1.6K	5%	1/6W
R134	1-247-837-00	CARBON	1.8K	5%	1/6W
R135	1-202-850-00	(Canadian,AEP)...COMPOSITION 2.2	1/4W		
R135	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R136	1-202-850-00	(Canadian,AEP)...COMPOSITION 2.2	1/4W		
R136	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R137	1-247-839-00	CARBON	2.2K	5%	1/6W
R138	1-247-807-00	CARBON	100	5%	1/6W
R201	1-247-863-00	CARBON	22K	5%	1/6W
R202	1-247-863-00	CARBON	22K	5%	1/6W
R203	1-247-855-00	CARBON	10K	5%	1/6W
R204	1-247-855-00	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R206	1-247-831-00	CARBON	1K	5%	1/6W
R207	1-247-831-00	CARBON	1K	5%	1/6W
R208	1-247-831-00	CARBON	1K	5%	1/6W
R209	1-247-831-00	CARBON	1K	5%	1/6W
R210	1-247-831-00	CARBON	1K	5%	1/6W
R211	1-247-831-00	CARBON	1K	5%	1/6W
R212	1-247-819-00	CARBON	330	5%	1/6W
R213	1-247-819-00	CARBON	330	5%	1/6W
R214	1-247-825-00	CARBON	560	5%	1/6W
R215	1-247-825-00	CARBON	560	5%	1/6W
R216	1-247-825-00	CARBON	560	5%	1/6W
R220	1-247-863-00	CARBON	22K	5%	1/6W
R223	1-247-863-00	CARBON	22K	5%	1/6W
R225	1-247-857-00	CARBON	12K	5%	1/6W
R226	1-247-855-00	CARBON	10K	5%	1/6W
R227	1-247-851-00	CARBON	6.8K	5%	1/6W
R228	1-247-855-00	CARBON	10K	5%	1/6W
R229	1-247-807-00	CARBON	100	5%	1/6W
R230	1-247-863-00	CARBON	22K	5%	1/6W
R231	1-247-863-00	CARBON	22K	5%	1/6W
R232	1-247-863-00	CARBON	22K	5%	1/6W
R233	1-247-863-00	CARBON	22K	5%	1/6W
R234	1-247-863-00	CARBON	22K	5%	1/6W
R235	1-247-847-00	CARBON	4.7K	5%	1/6W
R236	1-247-847-00	CARBON	4.7K	5%	1/6W
R237	1-247-847-00	CARBON	4.7K	5%	1/6W
R238	1-247-891-00	CARBON	330K	5%	1/6W
R239	1-247-889-00	CARBON	270K	5%	1/6W
R240	1-247-891-00	CARBON	330K	5%	1/6W
R241	1-247-889-00	CARBON	270K	5%	1/6W
R242	1-247-855-00	CARBON	10K	5%	1/6W
R243	1-247-855-00	CARBON	10K	5%	1/6W
R244	1-247-815-00	CARBON	220	5%	1/6W
R245	1-247-887-00	CARBON	220K	5%	1/6W
R246	1-247-879-00	CARBON	100K	5%	1/6W
R250	1-247-860-00	CARBON	16K	5%	1/6W
R251	1-247-879-00	CARBON	100K	5%	1/6W
R252	1-247-823-00	CARBON	470	5%	1/6W
R253	1-247-855-00	CARBON	10K	5%	1/6W
R254	1-247-847-00	CARBON	4.7K	5%	1/6W
R255	1-247-892-00	CARBON	360K	5%	1/6W
R257	1-247-859-00	CARBON	15K	5%	1/6W
R258	1-247-879-00	CARBON	100K	5%	1/6W
R259	1-247-813-00	CARBON	180	5%	1/6W
R260	1-247-849-00	CARBON	5.6K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R261	1-247-815-00	CARBON	220	5%	1/6W
R262	1-247-855-00	CARBON	10K	5%	1/6W
R263	1-247-775-00	CARBON	4.7	5%	1/6W
R265	1-247-867-00	CARBON	33K	5%	1/6W
R266	1-247-855-00	CARBON	10K	5%	1/6W
R267	1-247-855-00	CARBON	10K	5%	1/6W
R268	1-247-871-00	CARBON	47K	5%	1/6W
R269	1-247-887-00	CARBON	220K	5%	1/6W
R270	1-247-879-00	CARBON	100K	5%	1/6W
R271	1-247-879-00	CARBON	100K	5%	1/6W
R272	1-247-879-00	CARBON	100K	5%	1/6W
R273	1-247-879-00	CARBON	100K	5%	1/6W
R274	1-247-879-00	CARBON	100K	5%	1/6W
R275	1-247-879-00	CARBON	100K	5%	1/6W
R276	1-247-879-00	CARBON	100K	5%	1/6W
R278	1-247-855-00	CARBON	10K	5%	1/6W
R279	1-247-855-00	CARBON	10K	5%	1/6W
R280	1-247-855-00	CARBON	10K	5%	1/6W
R281	1-247-855-00	CARBON	10K	5%	1/6W
R282	1-247-815-00	CARBON	220	5%	1/6W
R283	1-247-815-00	CARBON	220	5%	1/6W
R284	1-247-815-00	CARBON	220	5%	1/6W
R285	1-247-807-00	CARBON	100	5%	1/6W
R286	1-247-863-00	CARBON	22K	5%	1/6W
R287	1-247-855-00	CARBON	10K	5%	1/6W
R288	1-247-860-00	CARBON	16K	5%	1/6W
R301	1-247-845-00	CARBON	3.9K	5%	1/6W
RV101	1-226-233-00	RES, ADJ, CARBON 1K			
RV102	1-226-233-00	RES, ADJ, CARBON 1K			
RV103	1-226-239-00	RES, ADJ, CARBON 100K			
RV104	1-226-239-00	RES, ADJ, CARBON 100K			
RY301	1-515-519-00	RELAY			
S201	1-553-976-00	SWITCH, PUSH, START/STOP			
S202	1-553-976-00	SWITCH, PUSH, ARM TRANSPORT (FWD)			
S203	1-553-976-00	SWITCH, PUSH, ARM TRANSPORT (BACK)			
S204	1-553-976-00	SWITCH, PUSH, ARM LIFTER			
S205	1-553-976-00	SWITCH, PUSH, REPEAT			
S206	1-553-976-00	SWITCH, PUSH, SPEED			
S301	1-554-817-11	SWITCH			
S302	1-553-331-21	SWITCH, PUSH, POWER			
S902	1-552-535-00	(E)...SWITCH, POWER & VOLTAGE CHANGE			
T901	1-447-515-00	(Canadian,US)...TRANSFORMER, POWER			
T901	1-447-516-00	(AEP)...TRANSFORMER, POWER			
T901	1-447-517-21	(E)...TRANSFORMER, POWER			
X101	1-567-259-11	VIBRATOR, CRYSTAL			

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- 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 (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

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

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

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

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

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MMH : mH, UH : μH

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In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

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

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Sony Corporation

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