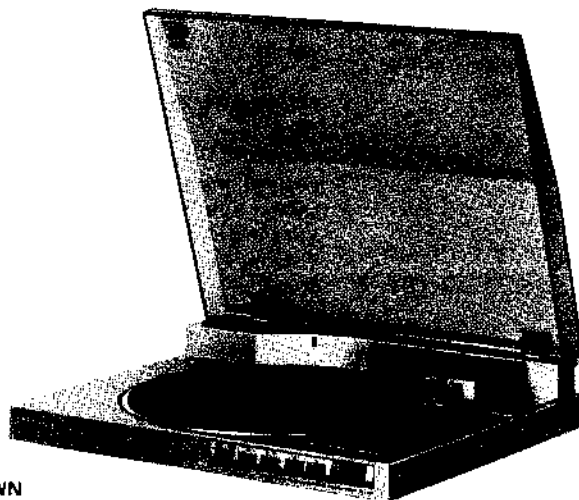


PS-LX520

SERVICE MANUAL

US Model
 Canadian Model
 AEP Model
 E Model



SILVER MODEL SHOWN

SPECIFICATIONS

Turntable

Platter	30 cm (12 in.), aluminum-alloy diecast
Motor	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) ±0.045% (DIN)
Signal-to-noise ratio	75 dB (DIN-B)
Automatic system	Lead-in, return, reject, repeat, arm up/down, record size selection
Speed deviation	Within ± 0.003%

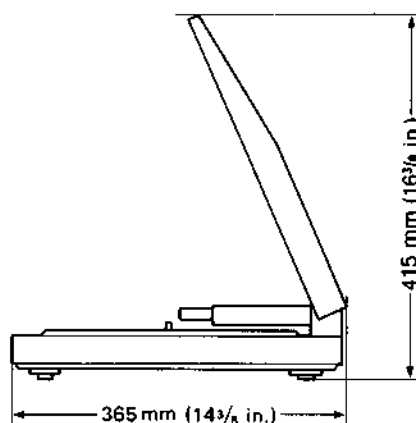
Tonearm

Type	Linear tracking tonearm
Pivot-to-stylus length	75 mm (3 in.)
Tracking error	±0.1°
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 × 95 × 365 mm (w/h/d) (16 $\frac{7}{8}$ × 3 $\frac{3}{4}$ × 14 $\frac{3}{8}$ 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 SCHÉ-
 MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES
 POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-
 PLACER 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®

AUD

PS-LX520

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

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

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

Type: Moving magnet
 Frequency Response: 20 Hz – 20 kHz
 Channel Separation: 20 dB at 1 kHz
 Output Voltage: 3.5 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

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 microamperes). 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)

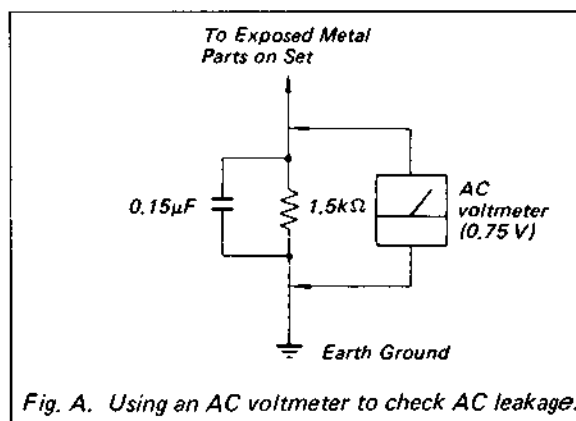
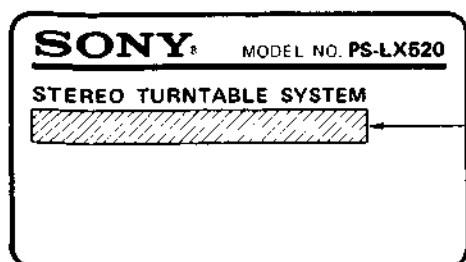


Fig. A. Using an AC voltmeter to check AC leakage.

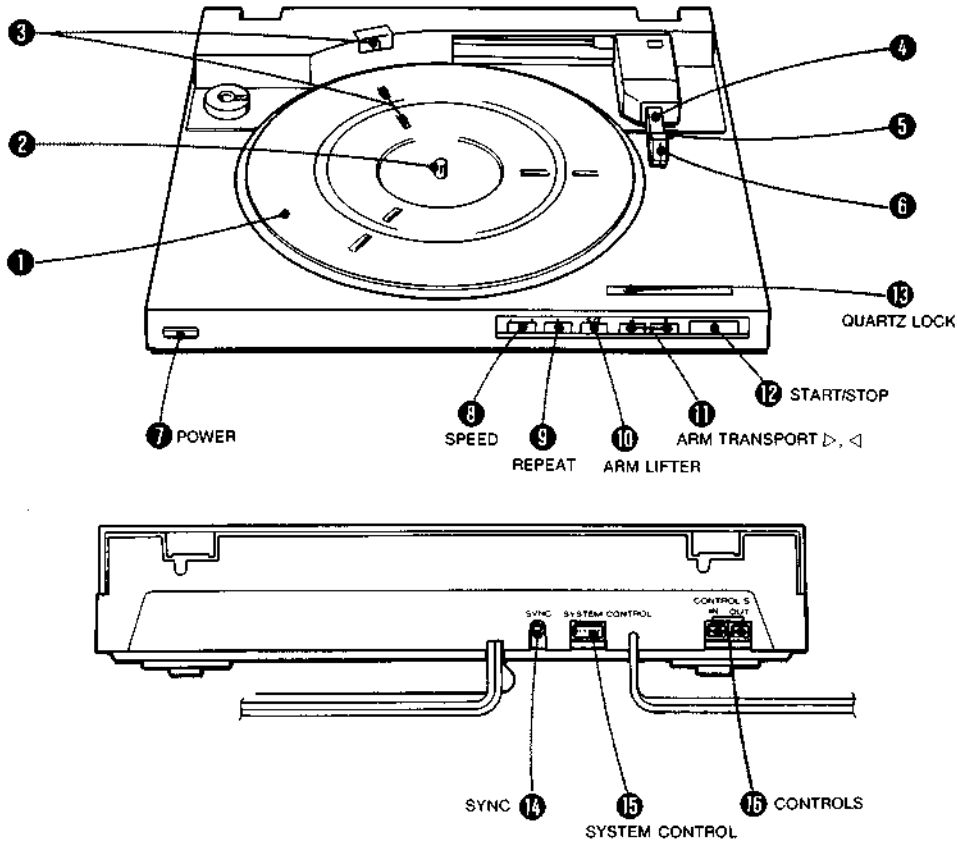
MODEL IDENTIFICATION

– 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



Front panel

- ① Rubber mat
- ② Center spindle
- ③ Auto-record-size selection holes and lamp
- ④ Tonearm
- ⑤ Cartridge locking screw
- ⑥ Cartridge
- ⑦ POWER switch
- ⑧ SPEED selector and indicators
Selects the record speed. When the POWER switch is turned on, the speed is always 33 $\frac{1}{2}$ rpm and the indicator on the right illuminates. When the selector is pressed, 45 rpm is selected and the indicator on the left illuminates.
- ⑨ 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.
- ⑩ ARM LIFTER button
This button lifts and lowers the tonearm. When the tonearm is on the arm rest position, this button cannot operate.
- ⑪ ARM TRANSPORT buttons
Press to move the tonearm inwards or outwards.

⑫ START/STOP button
Press this button to start the record playing. To stop during play, press it again.

⑬ QUARTZ LOCK indicator
The indicator illuminates when the turntable rotation is locked to the nominal speed by the quartz lock control system. The indicator goes out when the turntable rotation is out of the nominal speed.

Rear panel

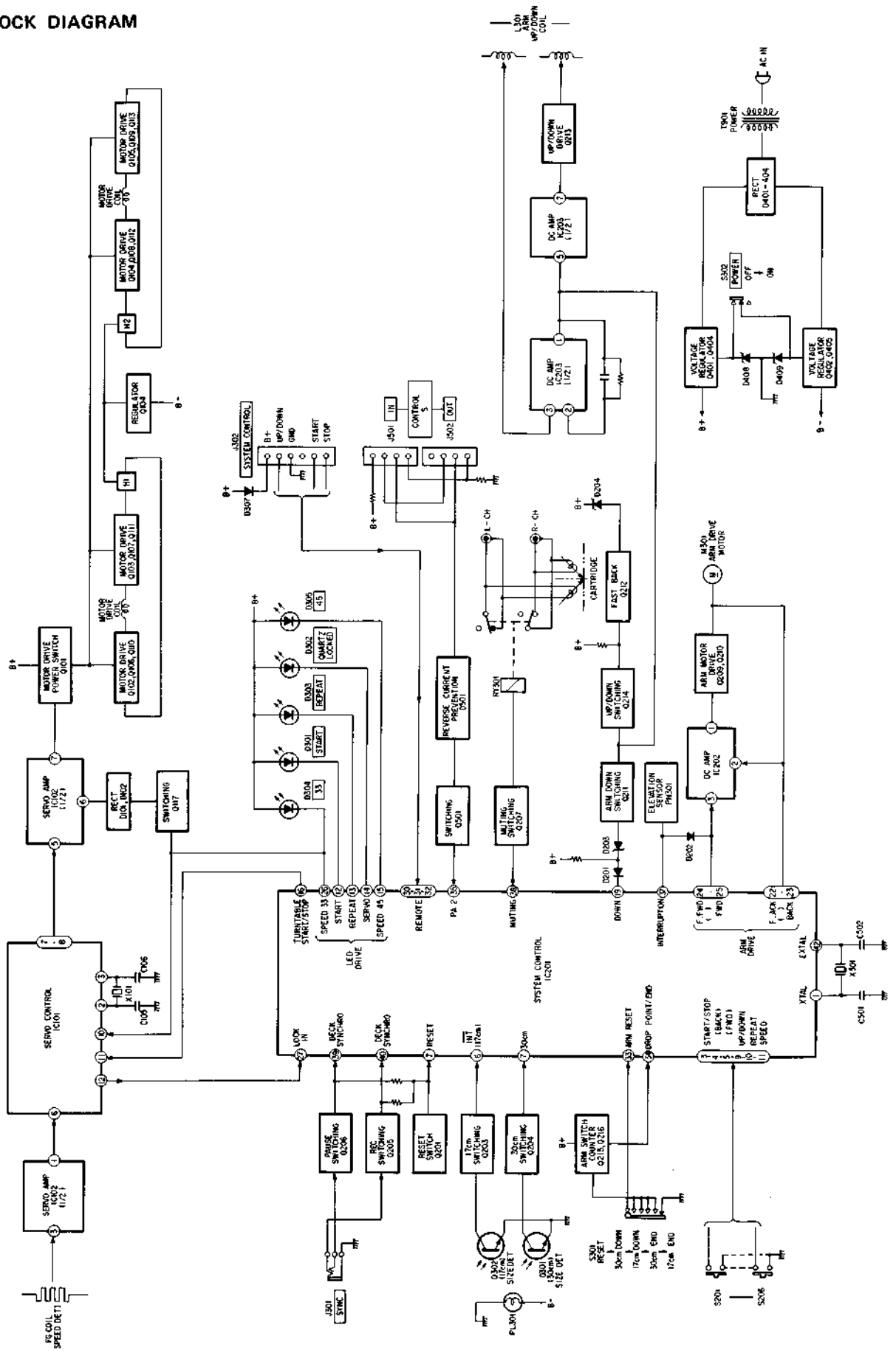
⑭ SYNC connector
Connect a Sony cassette deck equipped with a flat 3-pin synchro remote control connector for synchronized play function.

⑮ SYSTEM CONTROL connector
Connect to the PHONO connector of the RM-44 system remote controller (optional) for remote control operation. When the RM-44 is connected to this connector, do not connect audio equipment to the CONTROL S connectors. This will cause malfunction of the remote control system.

⑯ CONTROL S connectors (4-pin)
OUT: Connect to the CONTROL S IN or ⑲ REMOTE IN connector of other Sony audio equipments with the supplied flat 4-pin remote control cord for remote control of the total audio system.
IN: Connect to the CONTROL S OUT or ⑲ REMOTE OUT connector of an optional Sony system control tuner or receiver for remote control of the total audio system.

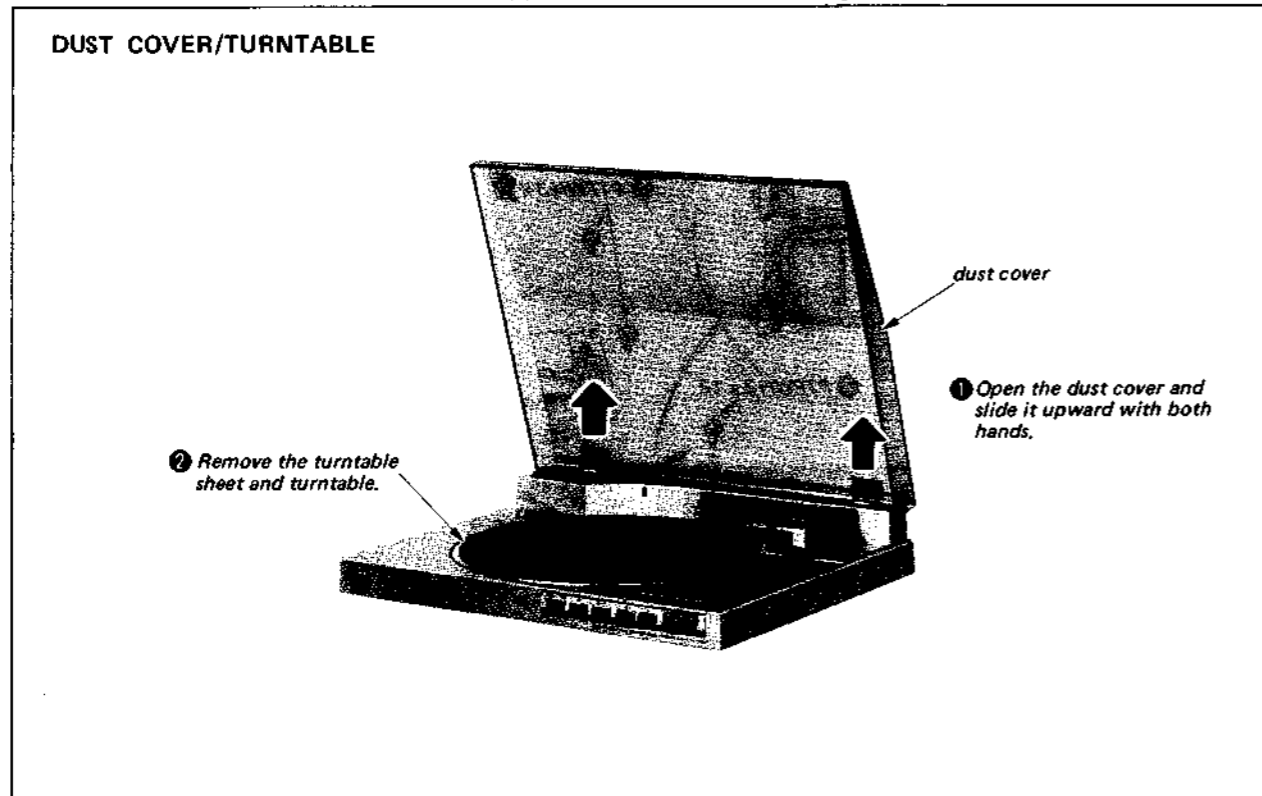
SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

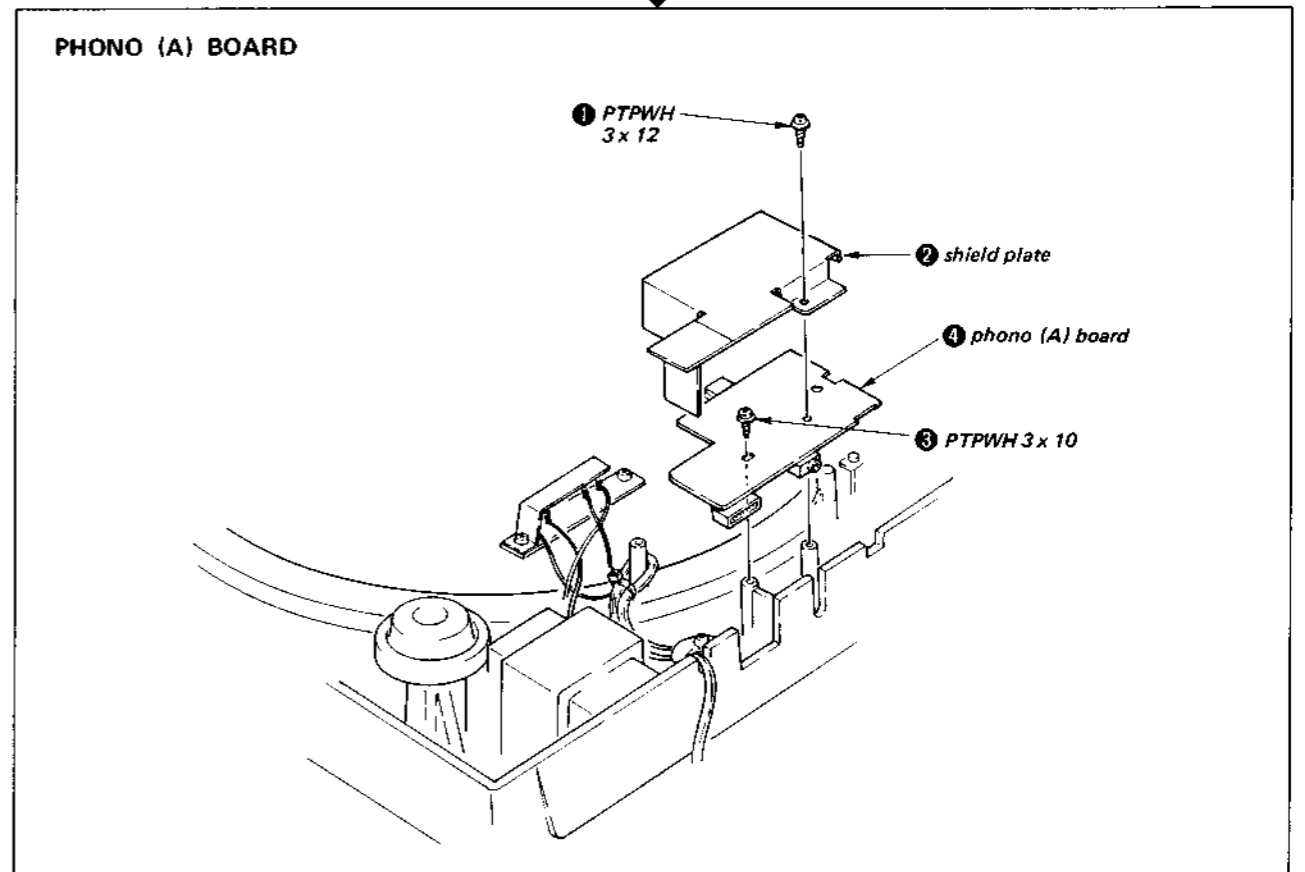
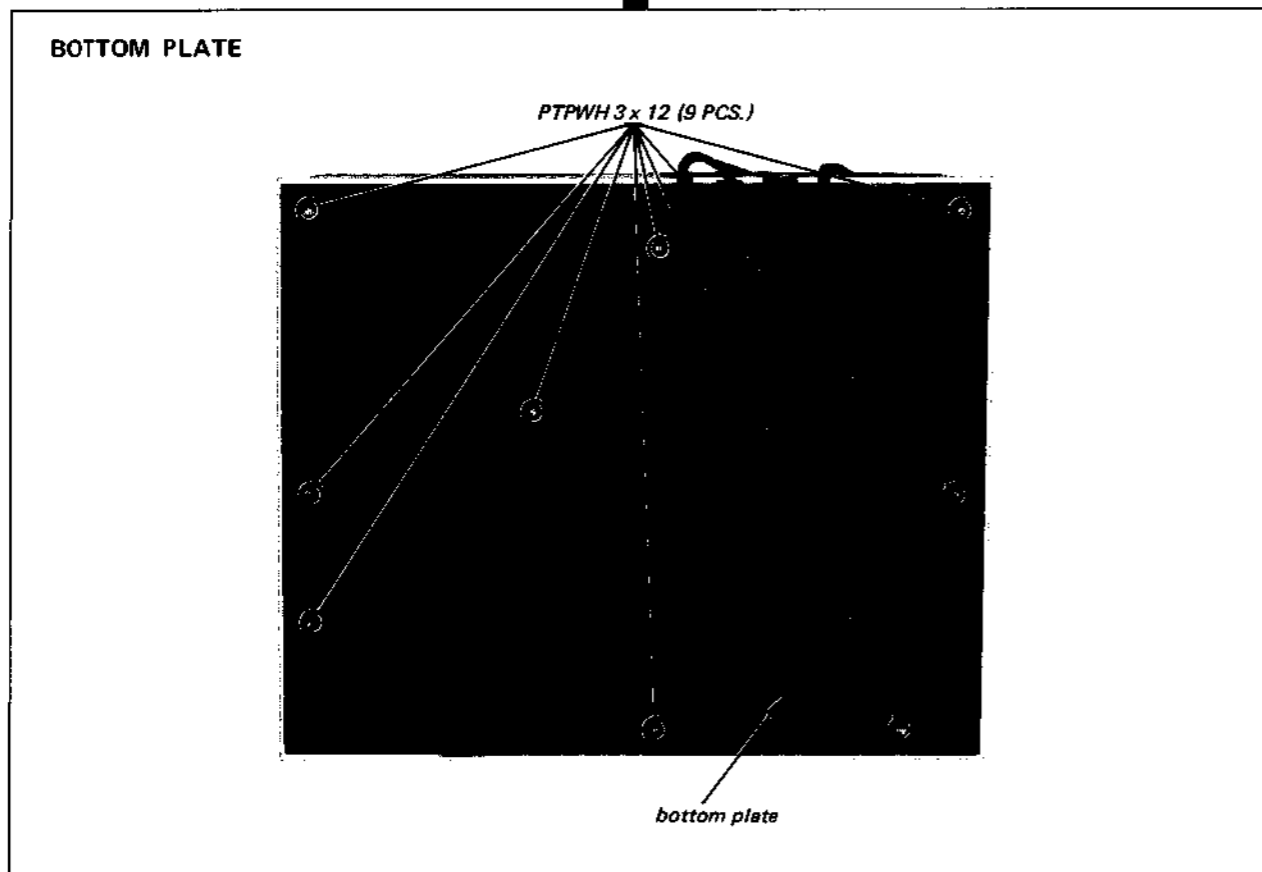
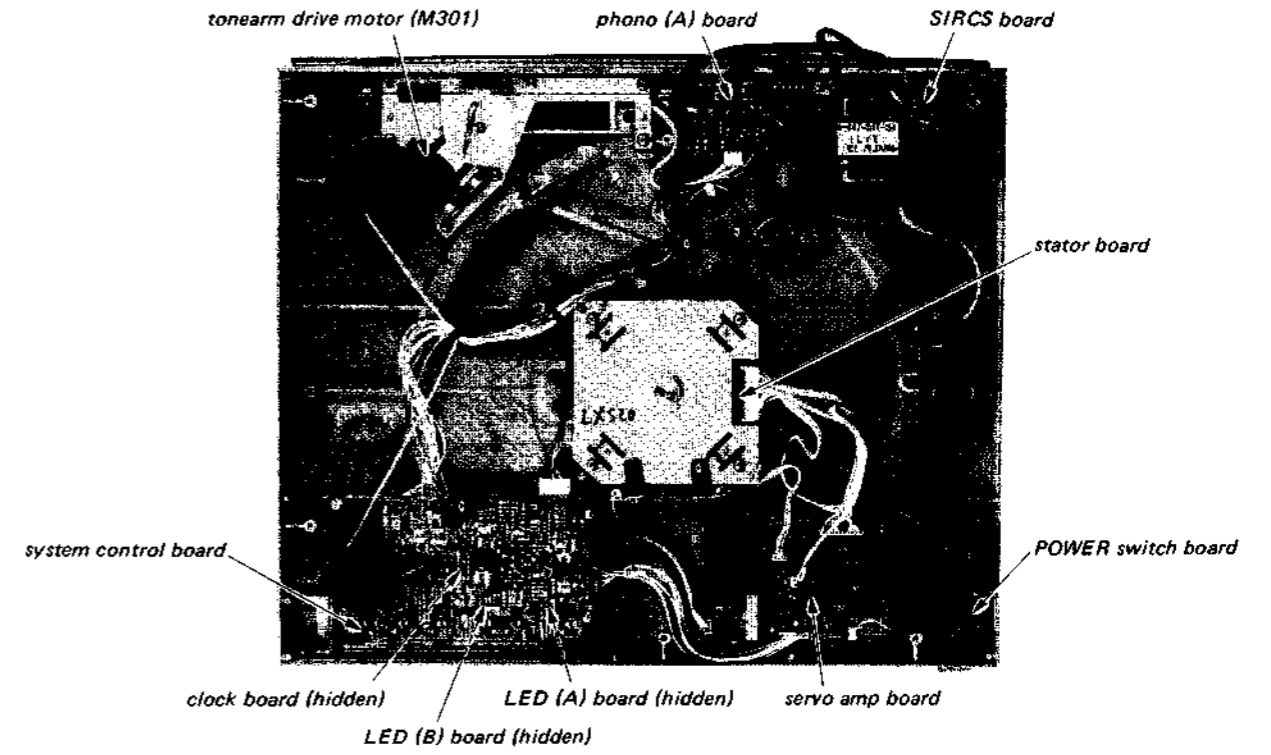


**SECTION 2
DISASSEMBLY**

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

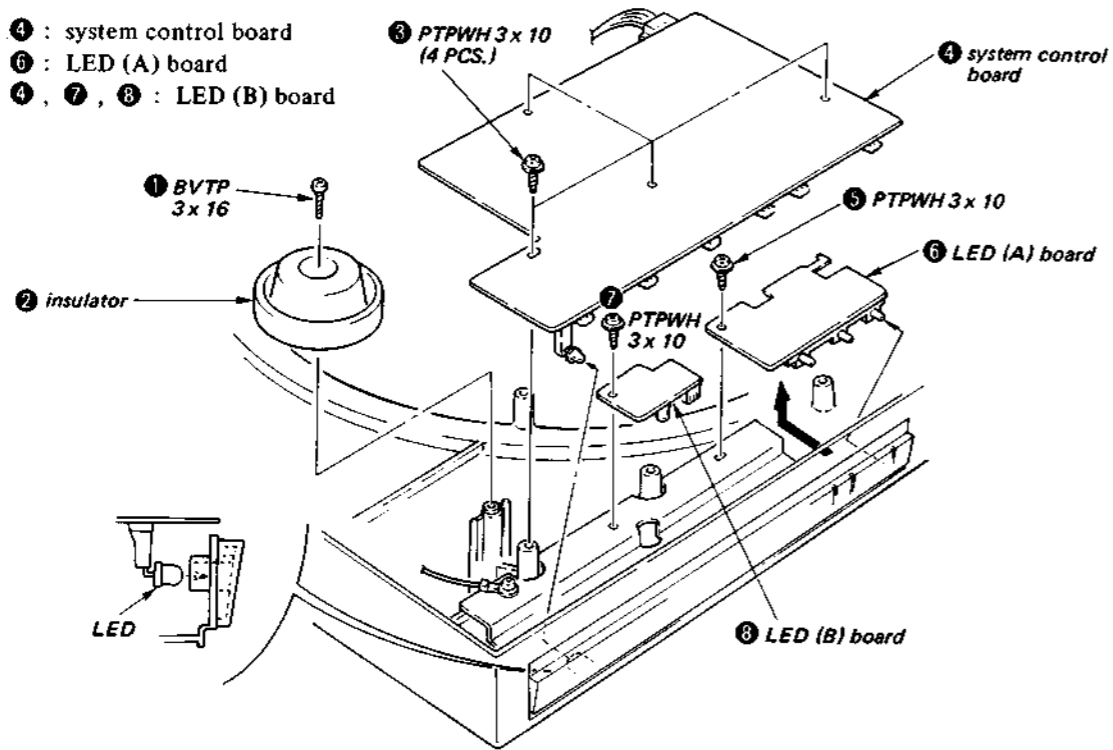


— With bottom plate removed —



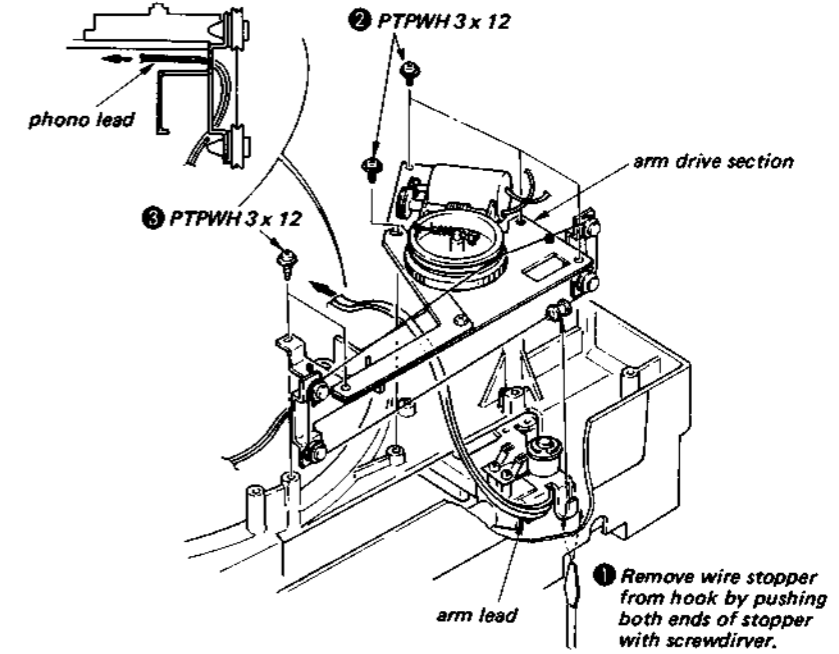
SYSTEM CONTROL/LED (A), (B) BOARDS

- ① - ④ : system control board
- ① - ⑥ : LED (A) board
- ① - ④, ⑦, ⑧ : LED (B) board

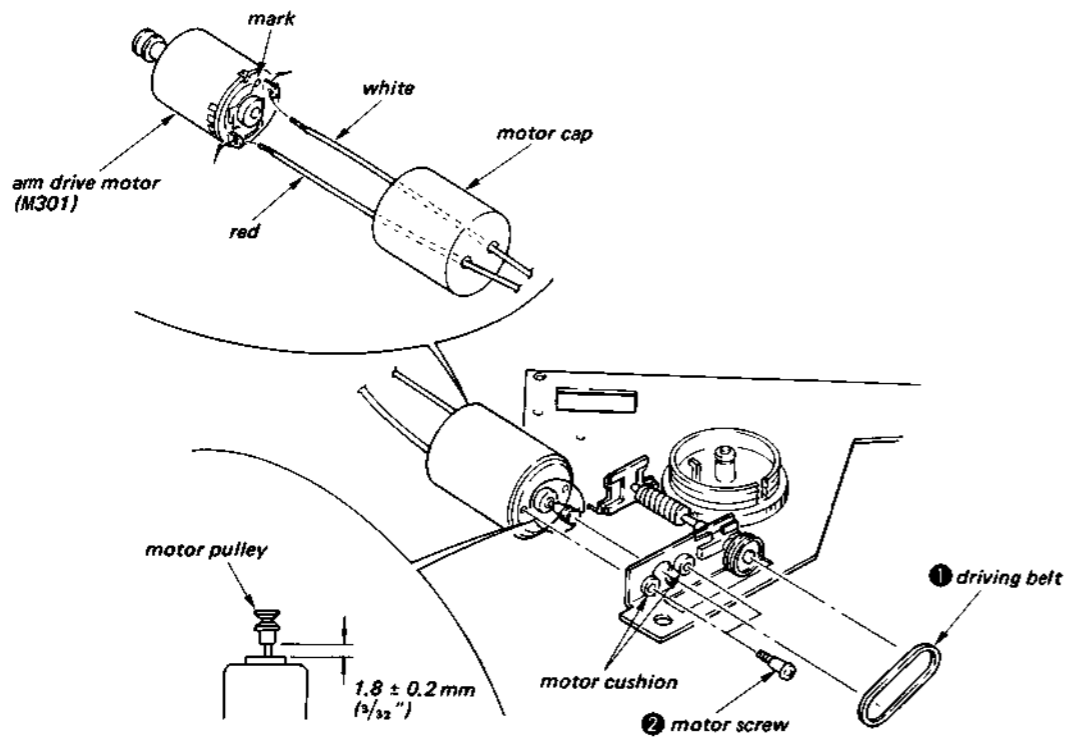


Remove the bottom plate.
(See page 5.)

TONEARM DRIVE SECTION

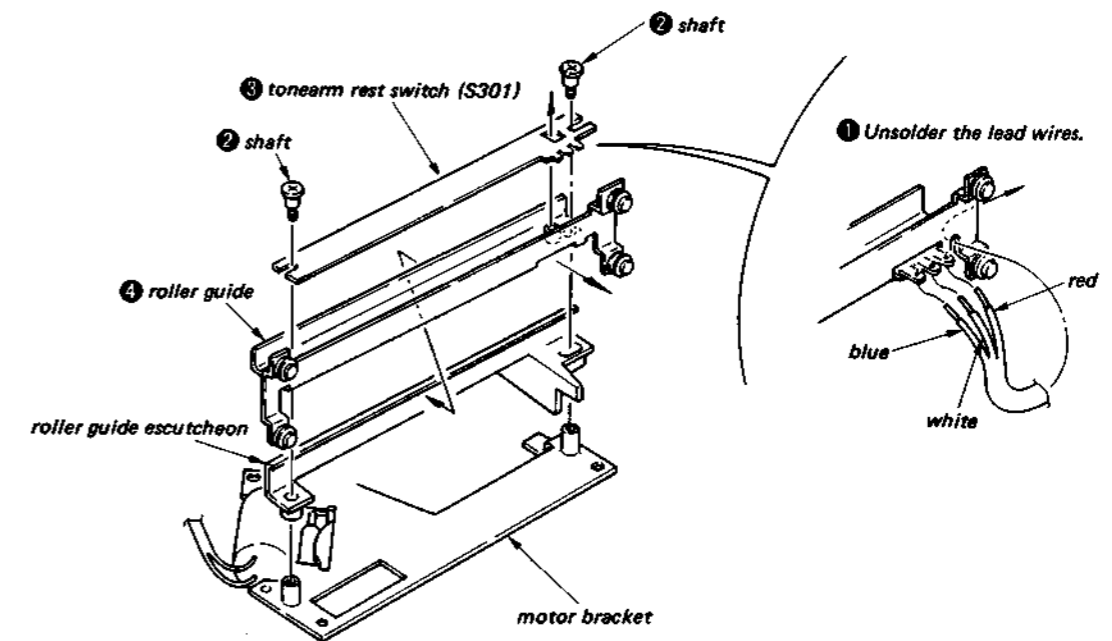


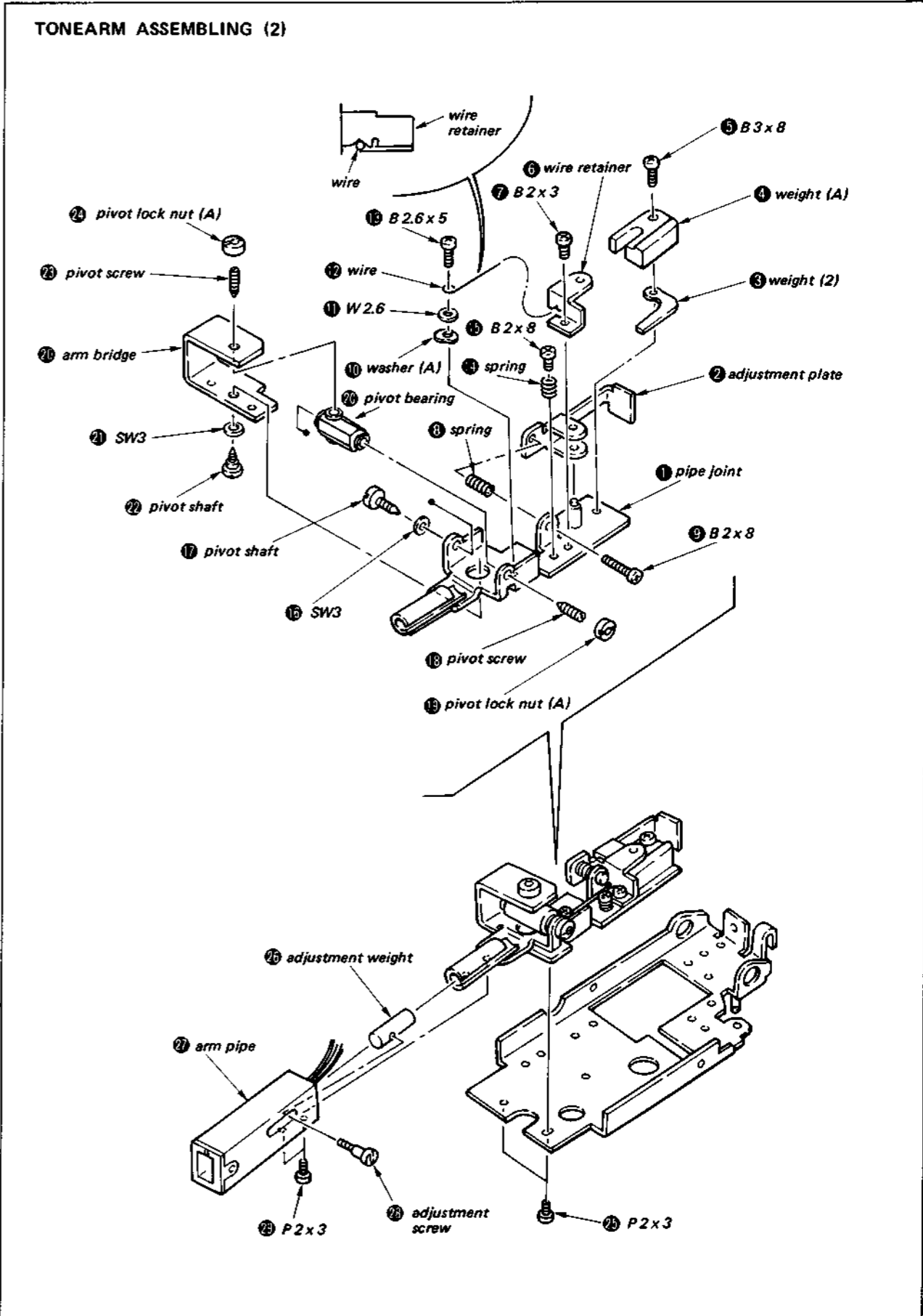
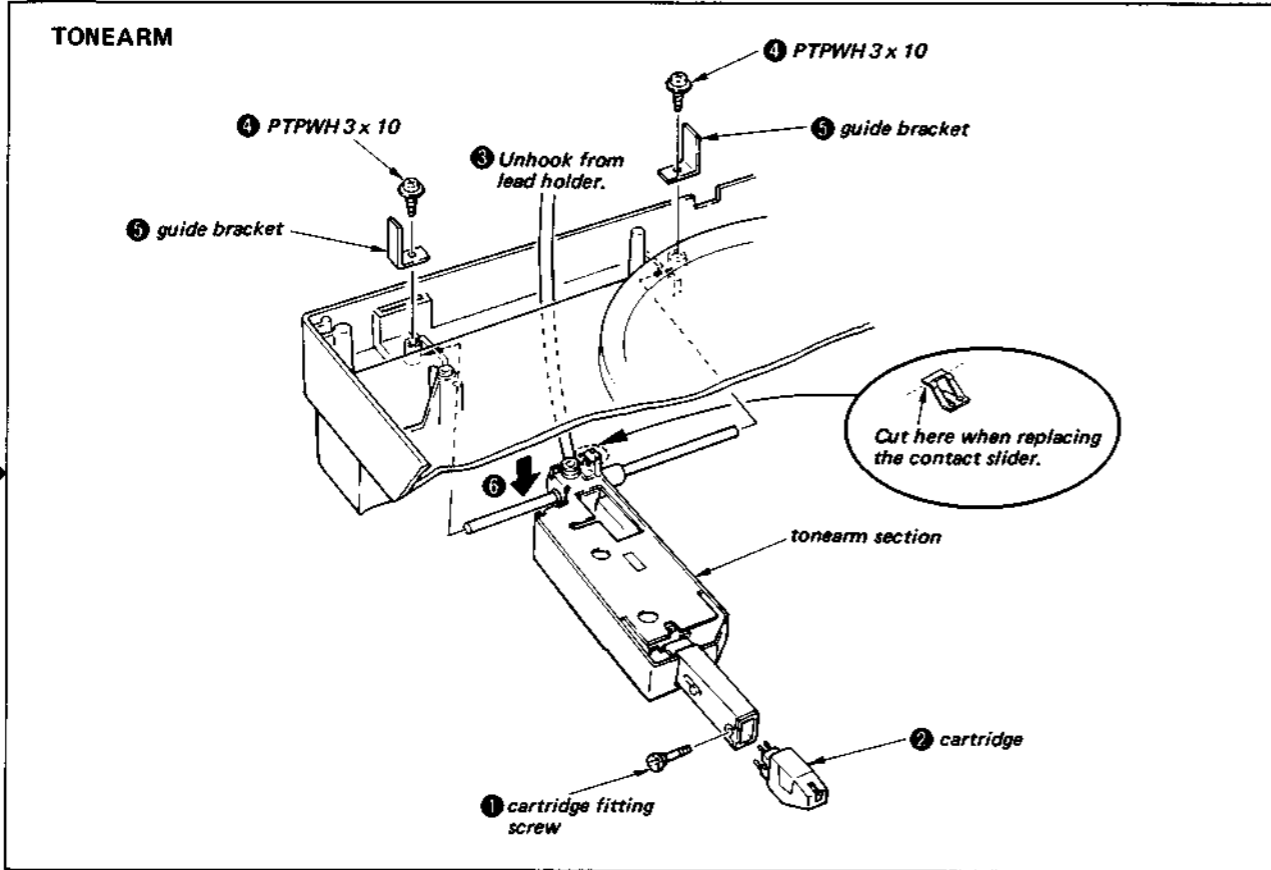
TONEARM DRIVE MOTOR (M301)



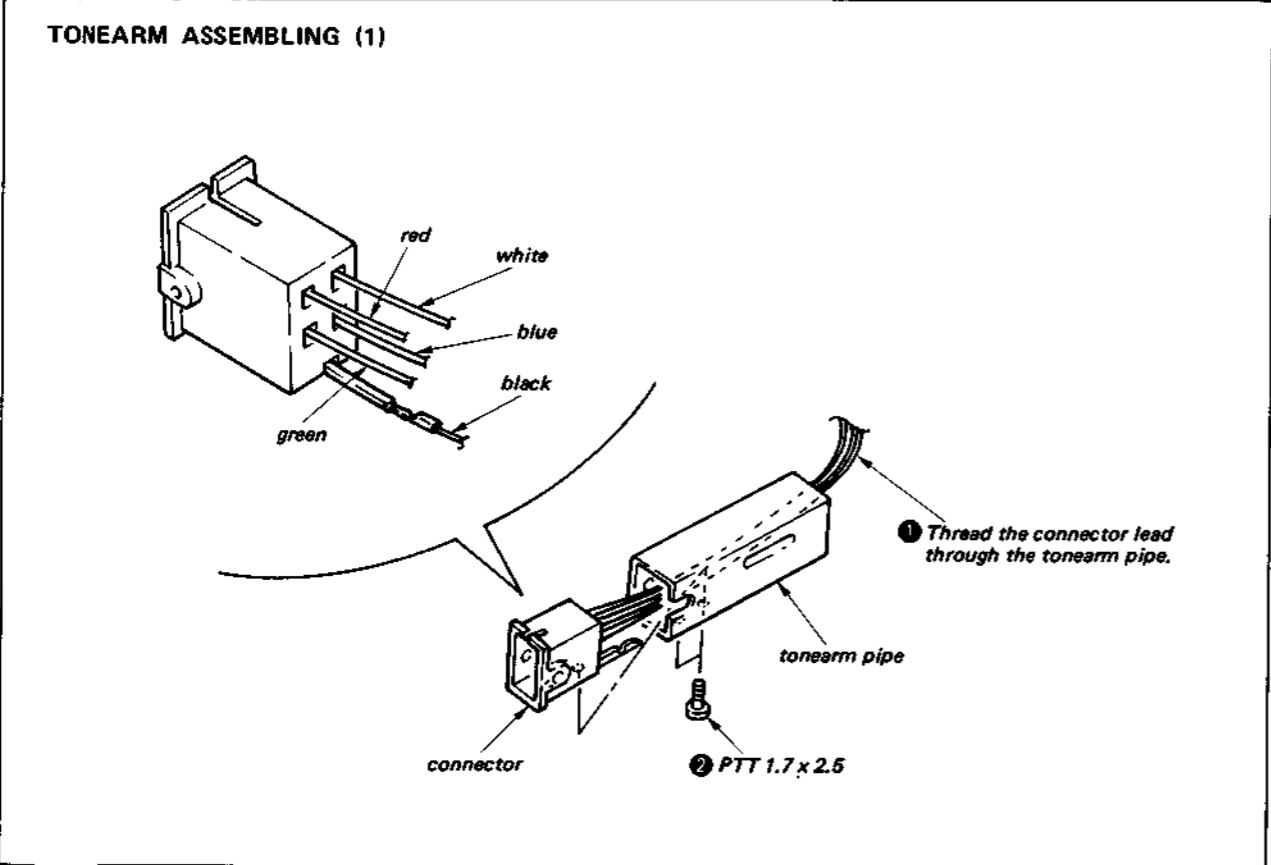
TONEARM DRIVE CORD STRINGING
(See page 12.)

TONEARM REST SWITCH (S301)/ROLLER GUIDE

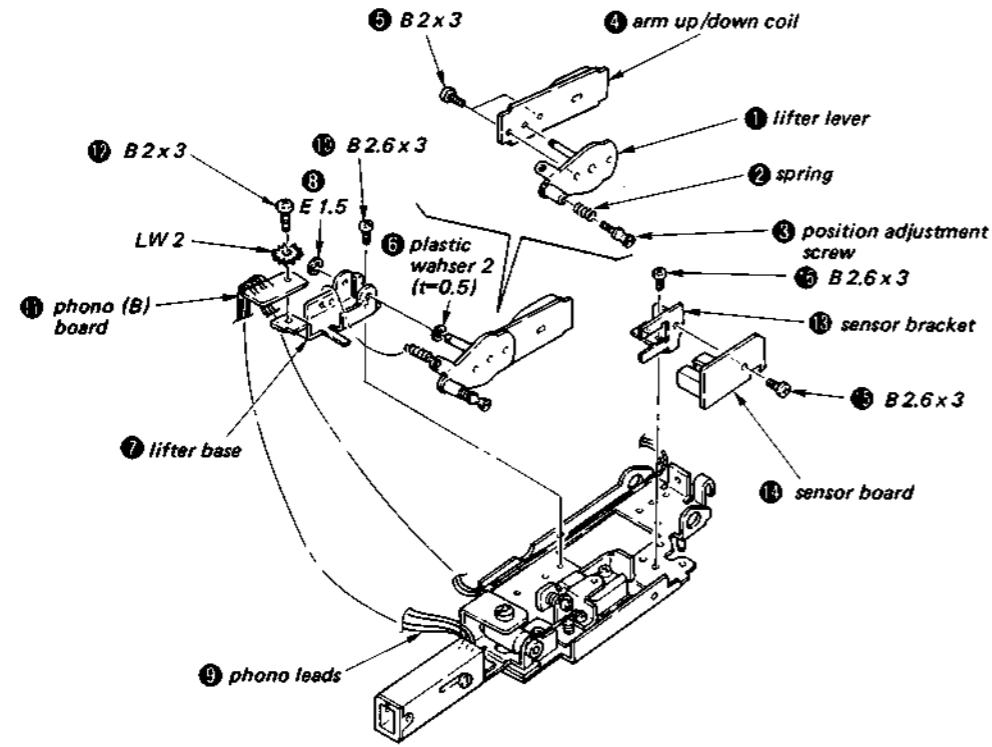




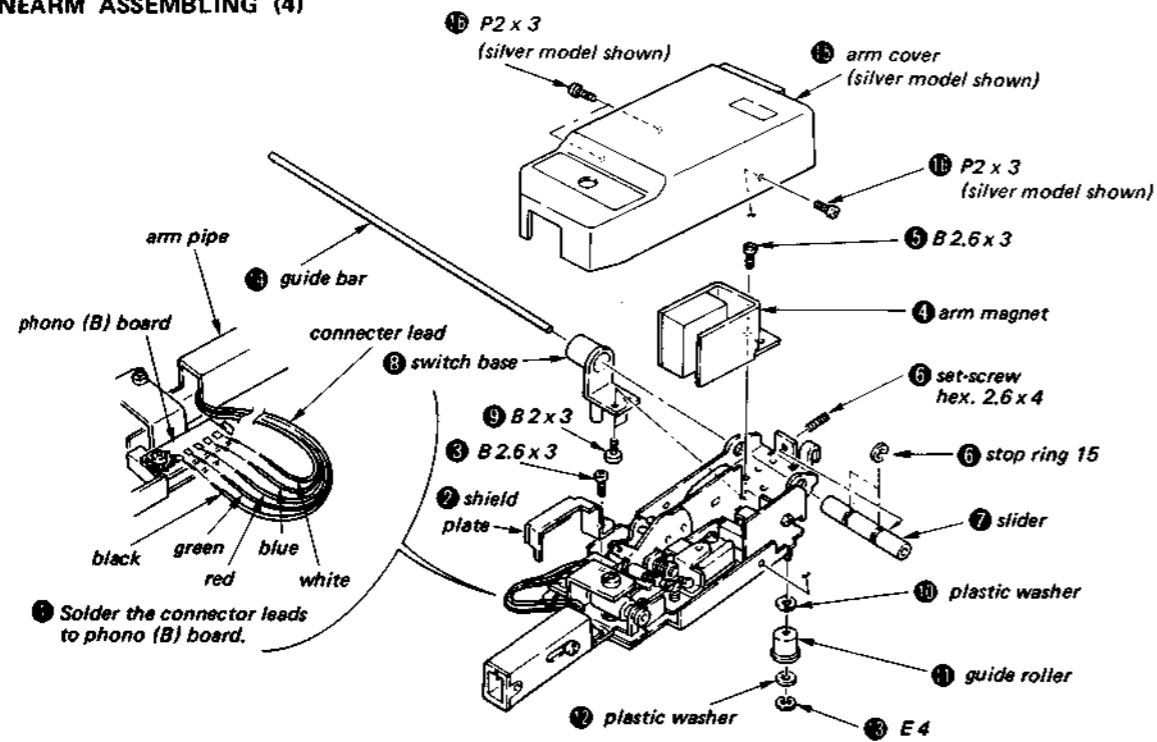
2-2. ONEARM ASSEMBLING



TONEARM ASSEMBLING (3)

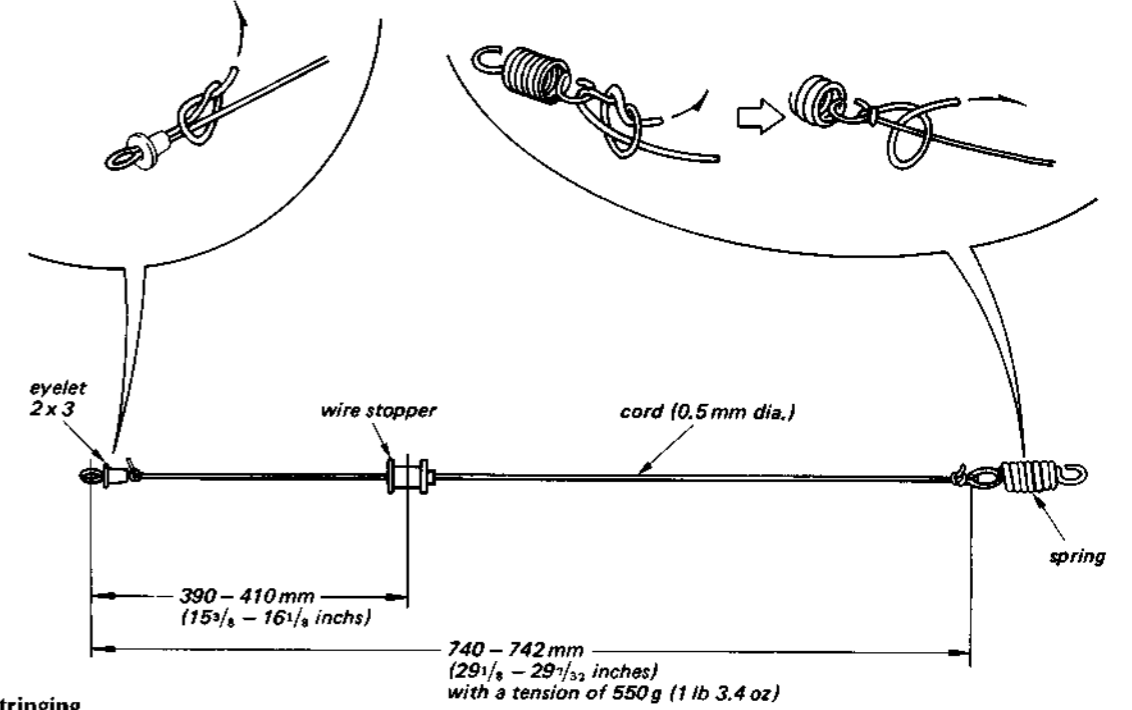


TONEARM ASSEMBLING (4)

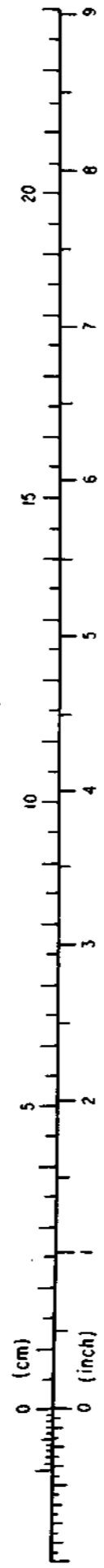
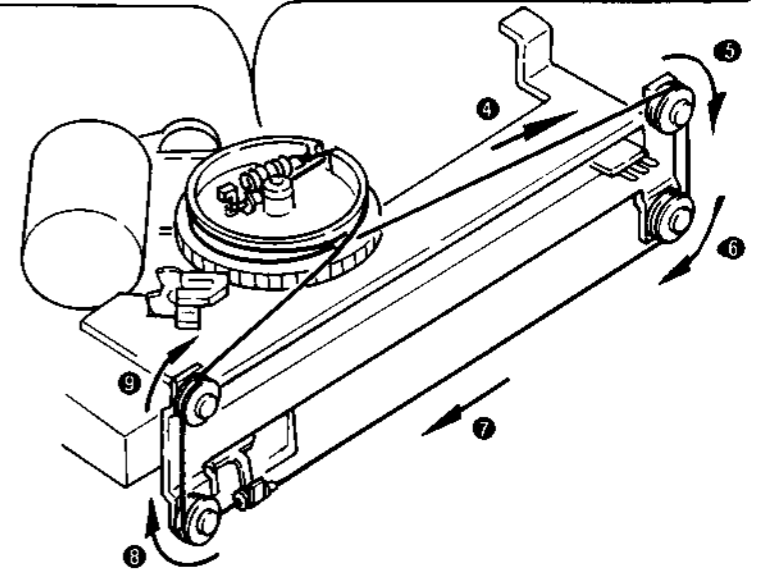
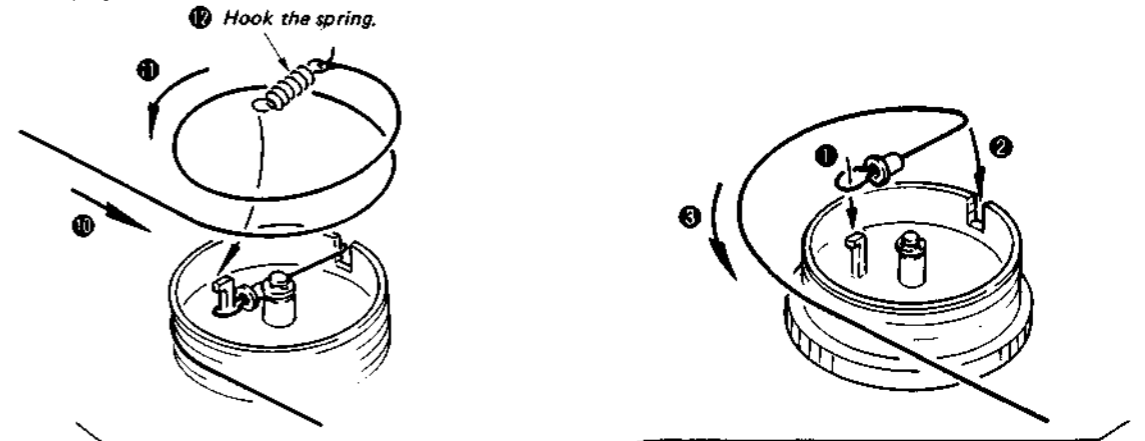


2-3. TONEARM DRIVE CORD STRINGING

(1) Preparation



(2) Stringing

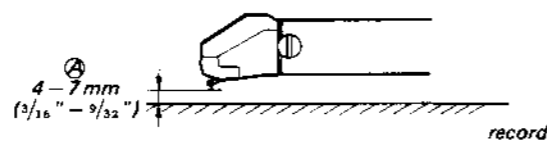


SECTION 3
ADJUSTMENTS

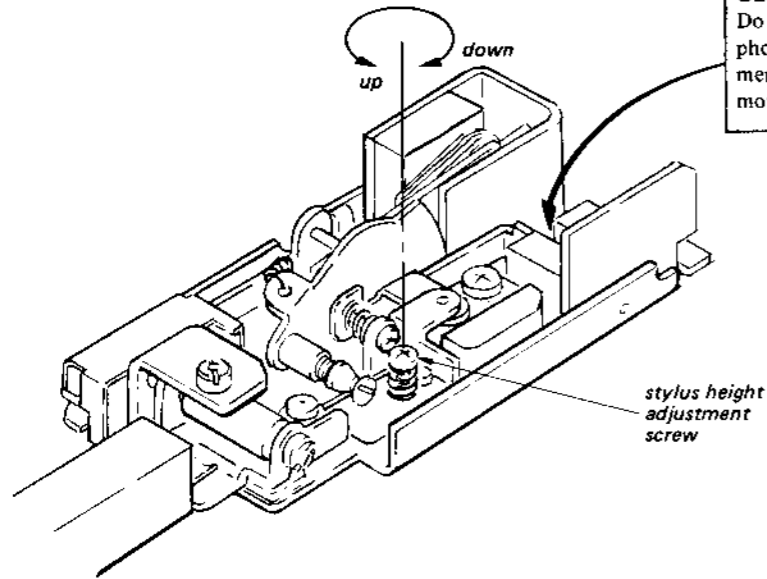
3-1. MECHANICAL ADJUSTMENTS

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 ($\frac{3}{16}$ - $\frac{1}{32}$ inches). If necessary, adjust the stylus height adjustment screw.

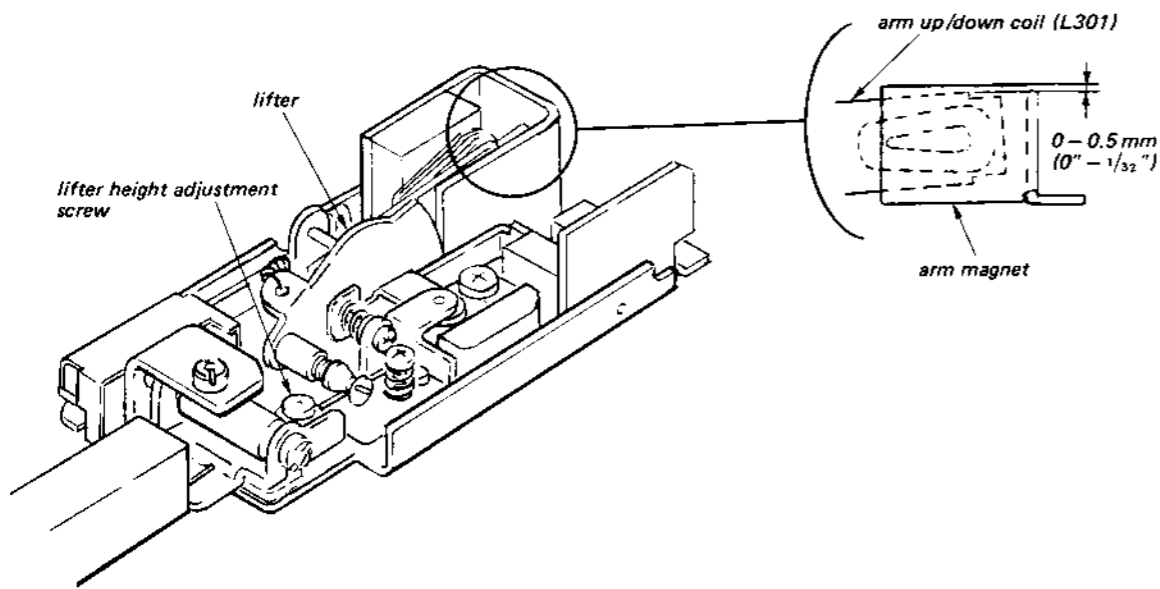


GENERAL NOTE:
Do not let a strong light get in the groove of photo interruptor during mechanical adjustment. Otherwise, misoperation of stoppage or moving may occur to the tonearm base.



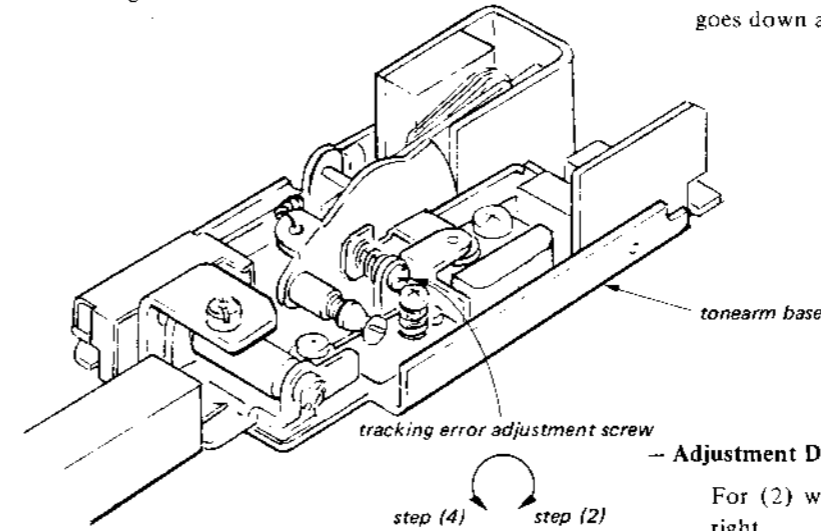
Lifter Height Adjustment

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.



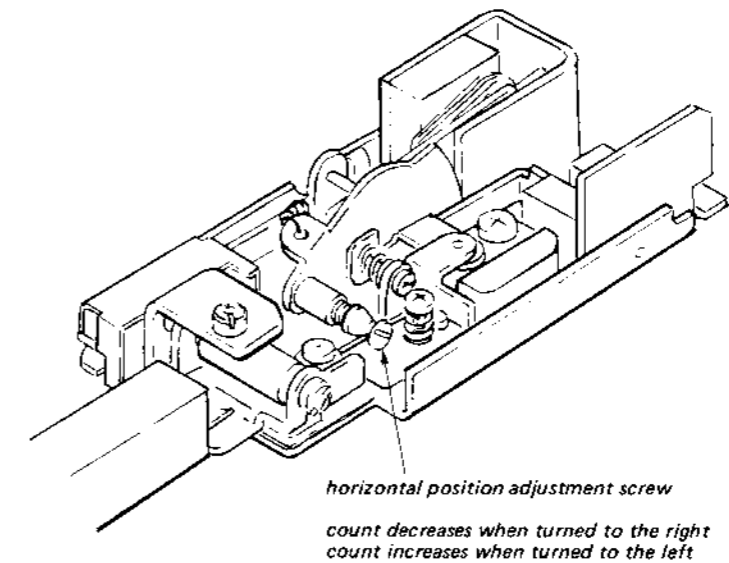
— Adjustment Direction —

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

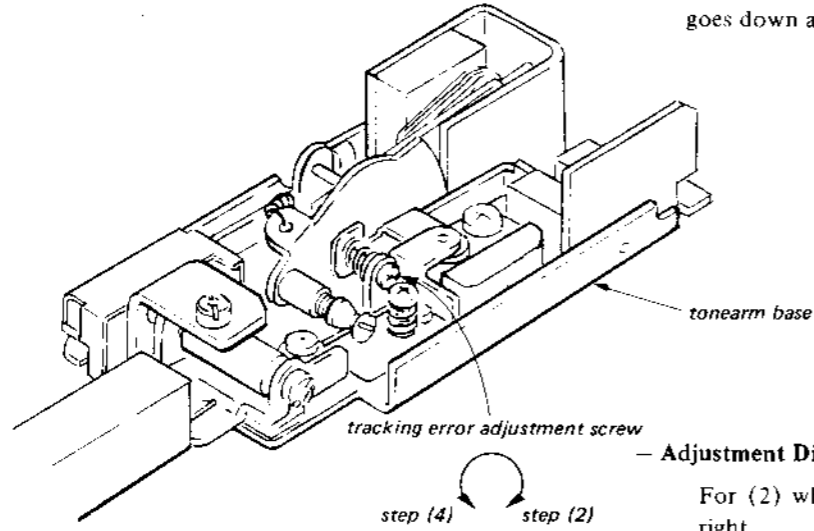
- (1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.
- (2) Adjust the horizontal position adjustment screw so that the drop point at this time is within the specification.

Specification: 9 - 14 counts



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.



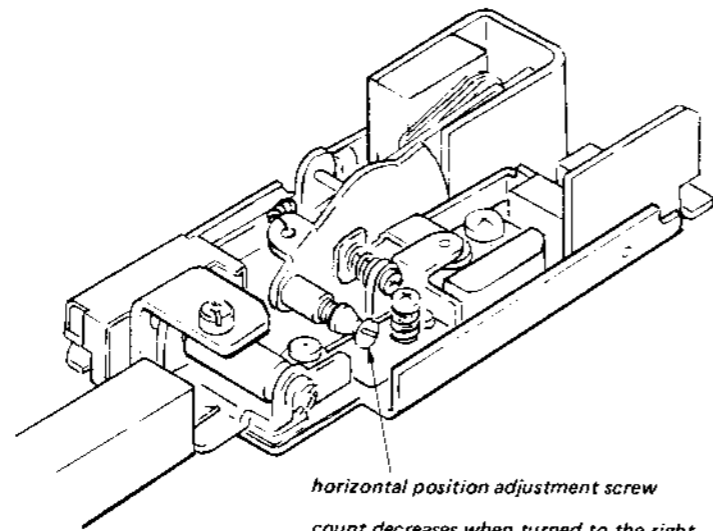
Adjustment Direction

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.

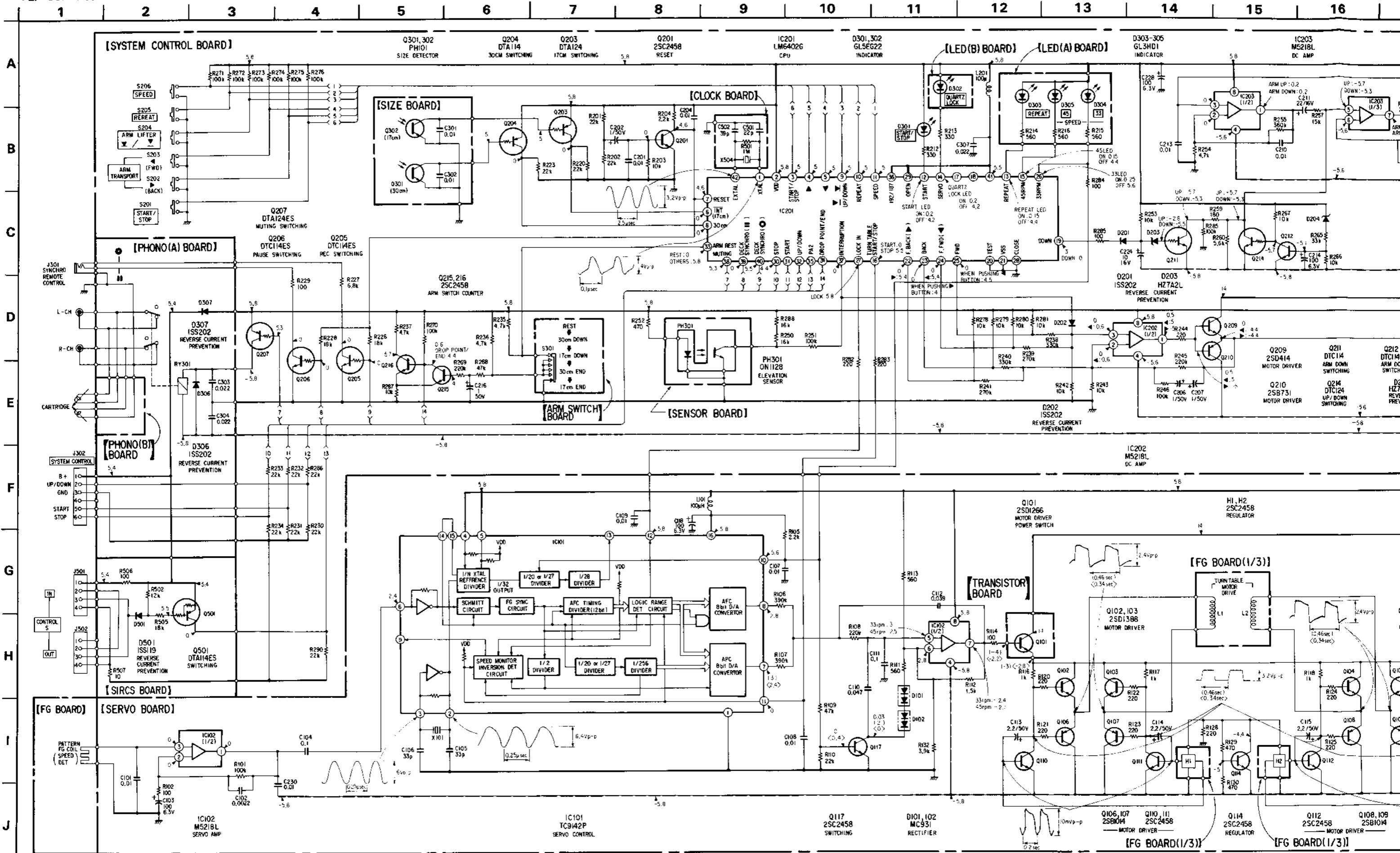
Specification: 9 – 14 counts

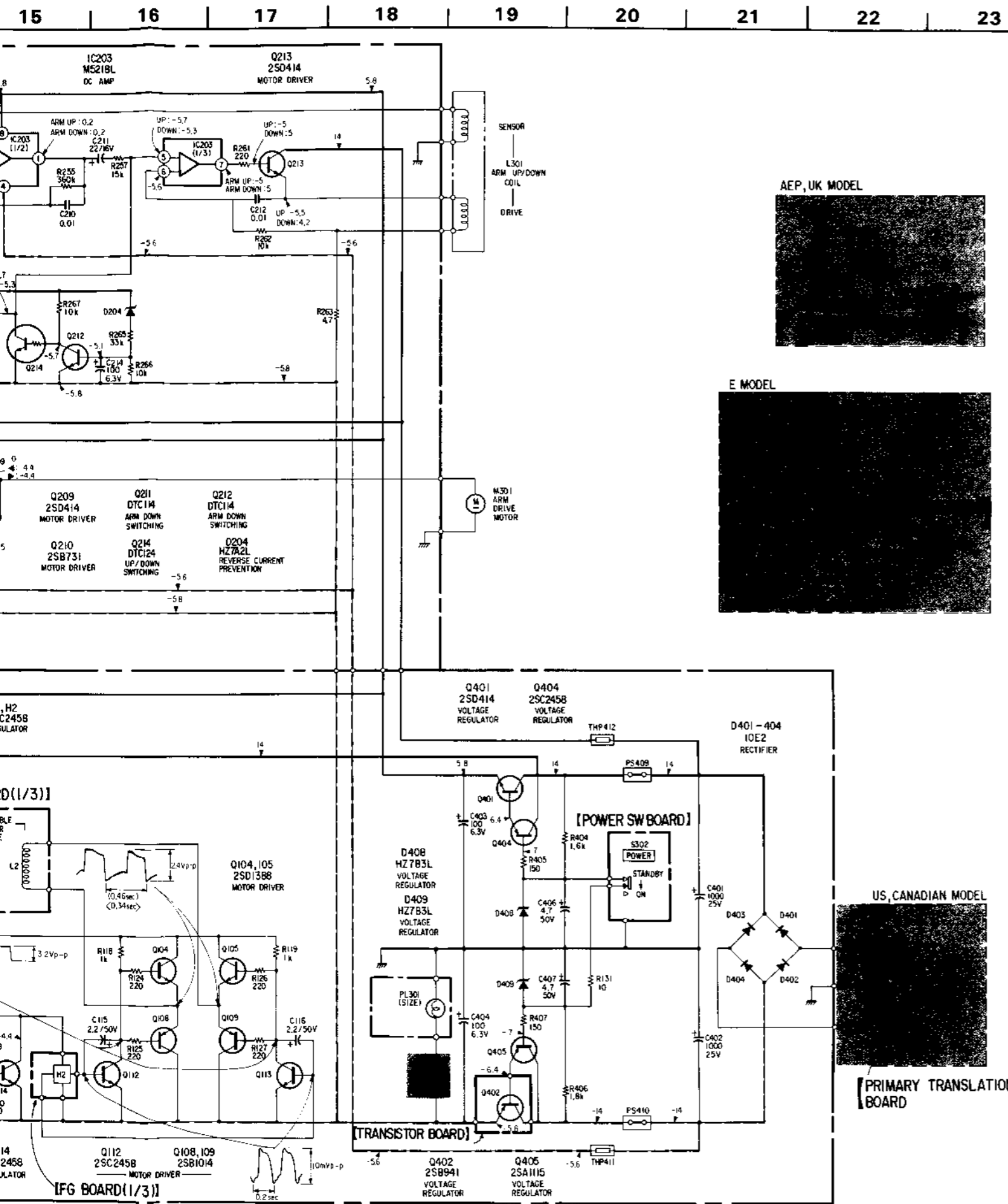


Semiconductor Lead Layouts

<p>2SB731 2SD414-R 2SD809</p>	<p>2SB941 2SD1266</p>	<p>MC931</p>
<p>2SC2603F DTA114ES DTA124ES DTA124XS DTC124ES DTC114ES</p>	<p>ON1128</p>	<p>2SD1388</p>
<p>PH101</p>	<p>HW-300B</p>	
<p>10E2 1SS119 RD6.8JN1 RD7.5EL2</p>	<p>2SB1014</p>	
<p>GL-3HD1</p>	<p>TC9142P LM6402G-575</p>	
<p>GL-5EG22</p>	<p>M5218L</p>	

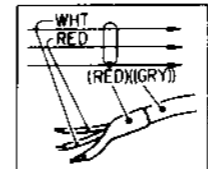
4-2. SCHEMATIC DIAGRAM









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:

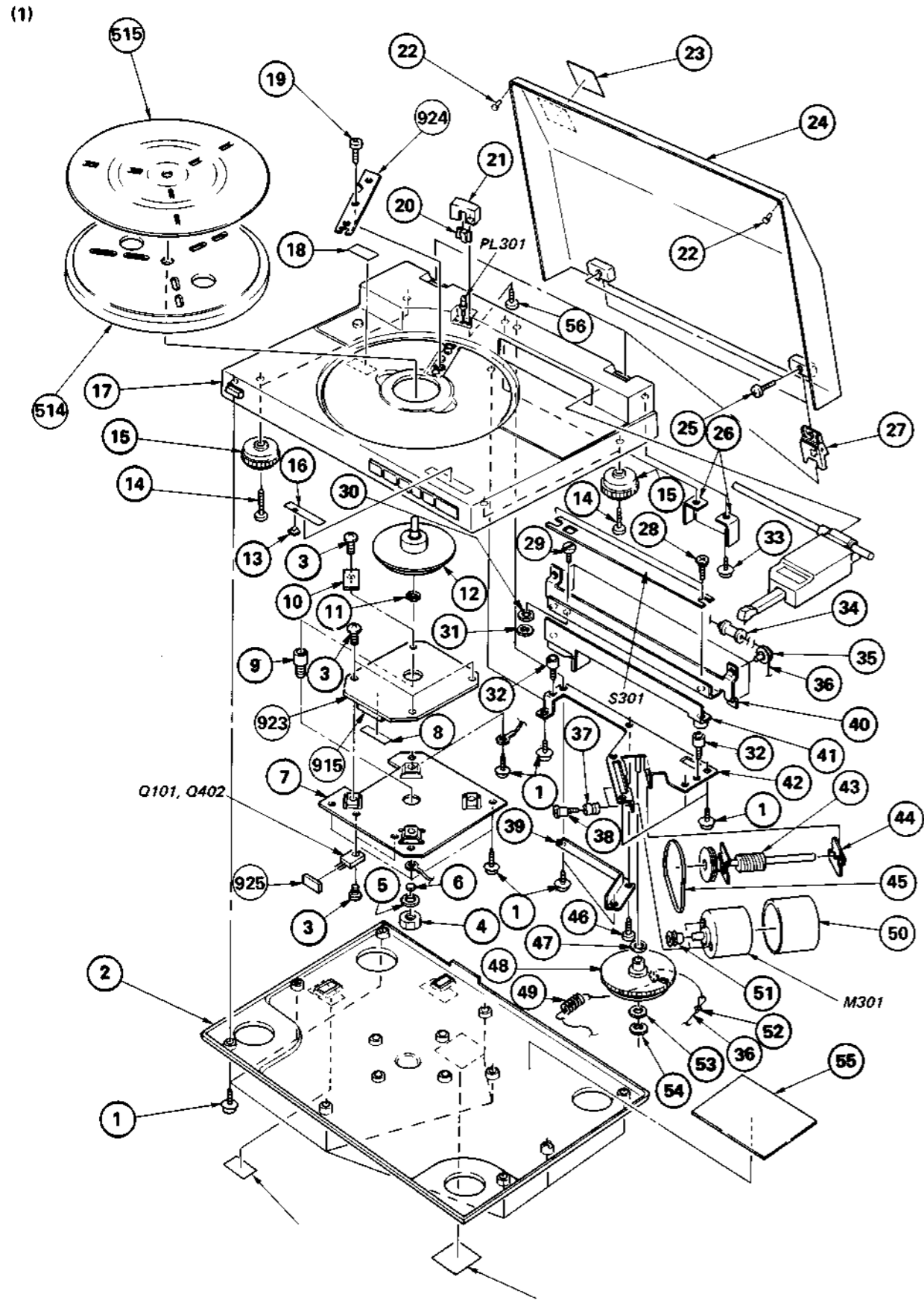
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu F$
- 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4 W$ or less unless otherwise specified.
-  : fusible resistor.
-  : B+ bus.
-  : B- bus.
-  : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50k Ω/V).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in no signal mode by using oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S201	START/STOP	_____
S202	ARM TRANSPORT (▶)	_____
S203	ARM TRANSPORT (◀)	_____
S204	ARM LIFTER	_____
S205	REPEAT	_____
S206	SPEED	_____
S301	ARM SWITCH	_____
S302	POWER	STAND BY

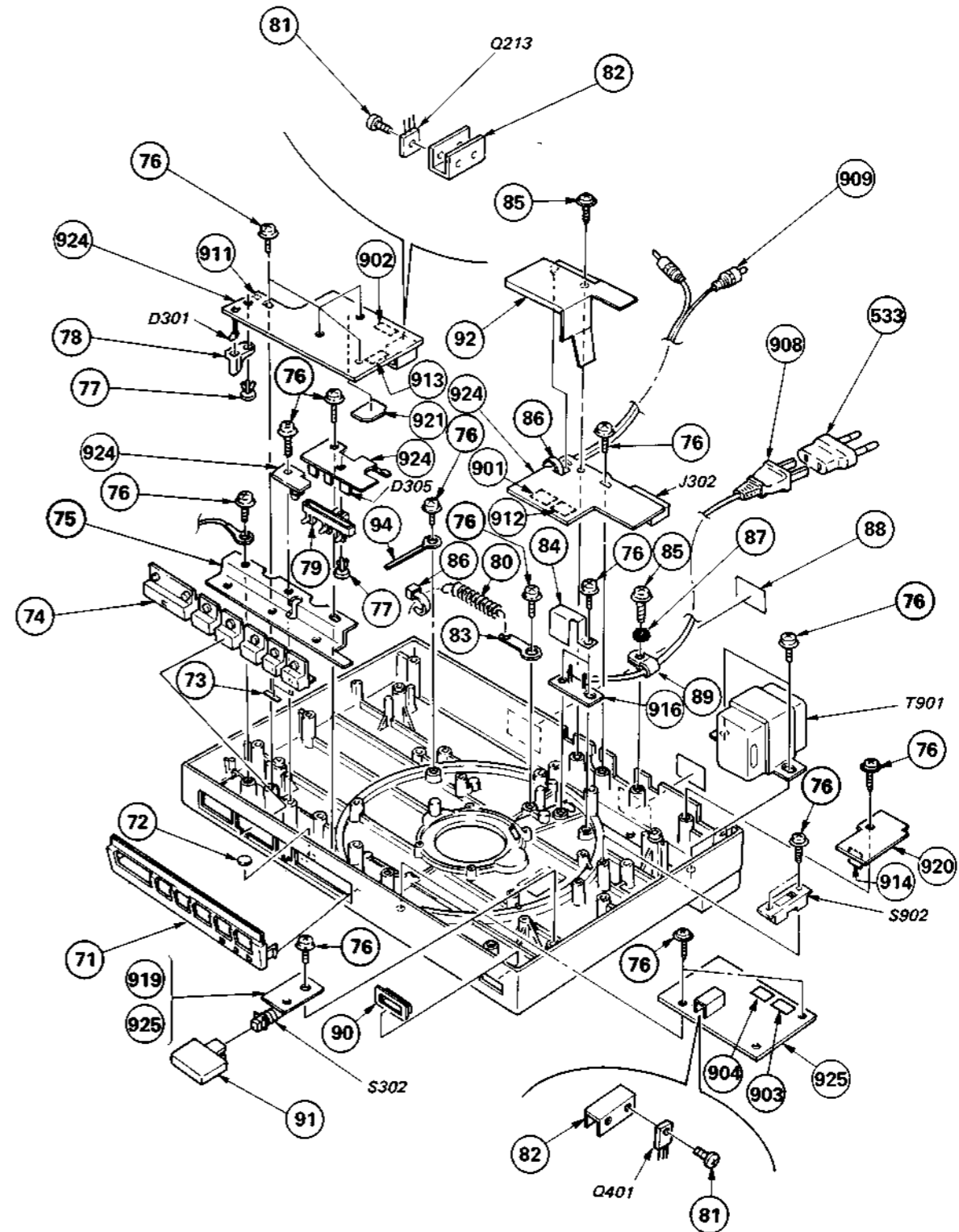
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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.

SECTION 5
EXPLODED VIEWS



(2)



(3)

532
Canada
(Model

SECTION 6
ELECTRICAL PARTS LIST

NOTE:


- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- 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:
MF:µF, PF:µµF.

RESISTORS
All resistors are in ohms.
F: nonflammable

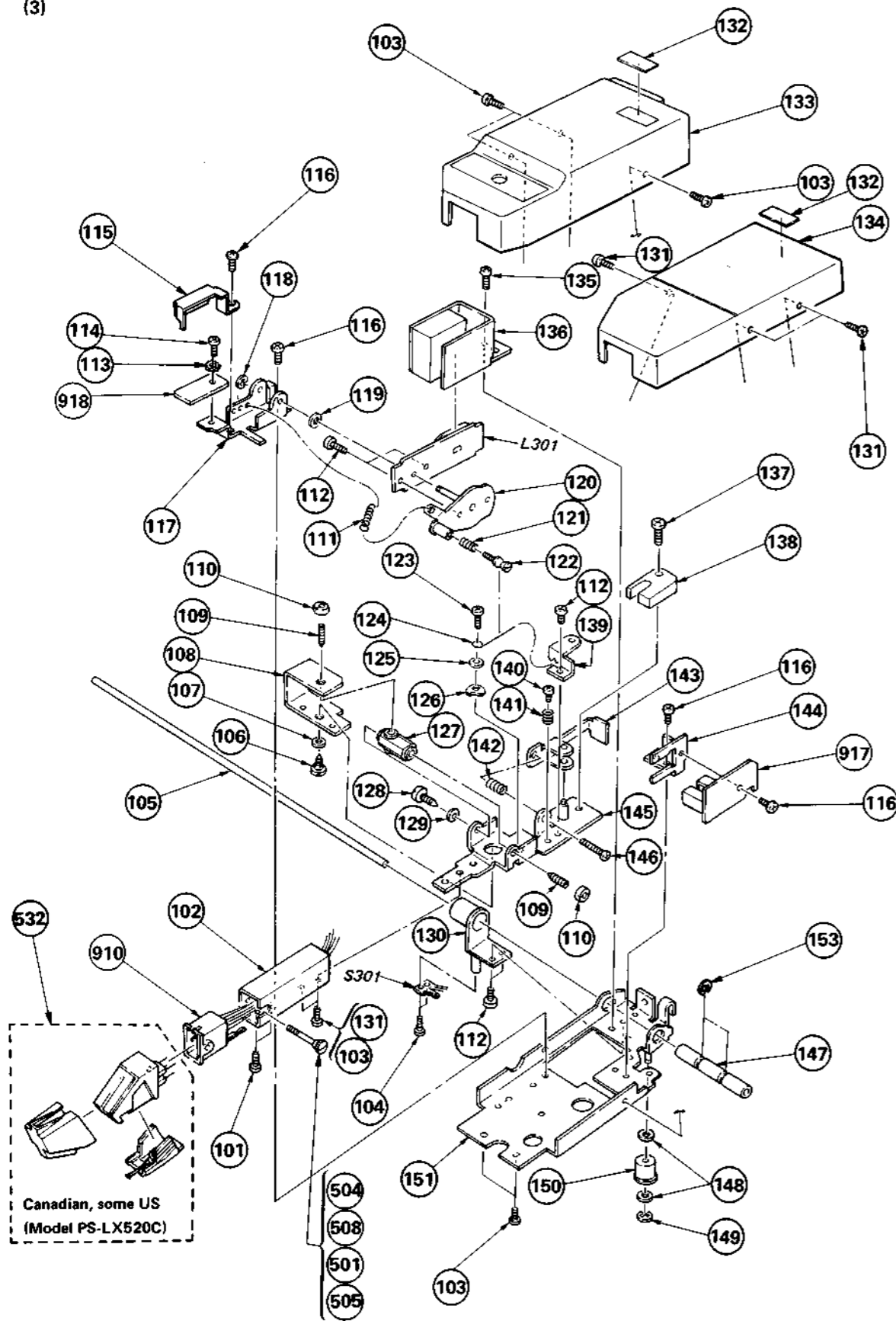
COILS
MMH: mH, UH: µH

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

The components identified by shading and mark  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.

(3)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-703-136-00	SCREW, SELF-TAPPING, +PTPMH 3X12, SLIT		53	3-701-441-01	WASHER	
2	*4-887-410-01	(AEP,Canadian)...PLATE, BOTTOM		54	7-624-106-04	STOP RING 3.0, TYPE -E	
	*4-887-410-11	(US)...PLATE, BOTTOM		55	4-887-422-11	LABEL, ARM ASSY	
	*4-887-410-21	(E)...PLATE, BOTTOM		56	7-685-135-14	SCREW +P 2.6X10 TYPE2 NON-SLIT	
3	7-685-871-01	SCREW +BVT 3X6 (S)		71	X-4887-403-3	(SILVER)...PANEL ASSY, SUB	
4	*4-903-330-01	NUT (TMD), BEARING			X-4887-403-4	(BLACK)...PANEL ASSY, SUB	
5	4-885-728-00	PACKING		72	4-887-429-00	SPACER	
6	4-885-135-00	RETAINER, THRUST		73	3-831-441-XX	CUSHION (25X15X0.3)	
7	*4-887-472-01	STATOR		74	A-4630-148-	BUTTON ASSY, CONTROL	
8	3-831-441-XX	CUSHION (25X15X0.3)		75	*4-887-406-00	RETAINER, BUTTON, CONTROL	
9	*4-887-477-01	BEARING		76	3-703-137-00	SCREW, TAPPING, +PTPMH 3X10	
10	*4-887-476-01	PLATE, STOPPER		77	3-531-576-31	RIVET (DIA. 3), NYLON	
11	7-624-133-24	STOP RING 7, TYPE-CE		78	*4-887-415-00	HOLDER (B), LED	
12	*A-4608-312-A	MOTOR ASSY		79	*4-887-414-00	HOLDER (A), LED	
13	*4-903-328-01	WINDOW, LED		80	4-885-789-00	SPRING, TENSION	
14	7-685-150-14	SCREW +BVT 3X16 TYPE2 SLIT		81	7-682-547-09	SCREW +B 3X6	
15	X-4885-704-3	INSULATOR ASSY		82	*4-885-562-11	HEAT SINK	
16	4-887-445-01	LABEL (B), PANEL		83	3-460-077-00	CLAMP, WIRE	
17	4-887-464-01	(US,Canadian:SILVER)...FRAME		84	*4-885-798-00	COVER, POWER	
	4-887-464-31	(AEP,E:BLACK)...FRAME		85	3-703-136-00	SCREW, SELF-TAPPING, +PTPMH 3X12, SLIT	
	4-887-464-11	(US,Canadian:BLACK)...FRAME		86	*3-701-748-00	CLAMP	
	4-887-464-21	(AEP,E:SILVER)...FRAME		87	7-623-422-07	LW 3, TYPE B	
	4-887-464-51	(AEP,E:BLACK)...FRAME		88	*4-887-470-01	(US,Canadian)...LABEL, MODEL NUMBER	
18	*3-701-030-00	LABEL, SERIAL NUMBER			*4-887-468-01	(AEP)...LABEL, MODEL NUMBER	
19	7-685-147-21	SCREW +P 3X10 TYPE2 SLIT			*4-887-469-01	(E)...LABEL, MODEL NUMBER	
20	4-879-741-00	WINDOW, LAMP		89	*3-001-707-01	HOLDER, WIRE	
21	4-887-412-11	(BLACK)...HOLDER, LAMP		90	4-875-501-00	GUIDE, POWER KNOB	
	4-887-412-21	(SILVER)...HOLDER, LAMP		91	4-885-734-00	(SILVER)...BUTTON, POWER	
22	4-885-183-00	CUSHION (D)			4-885-734-12	(BLACK)...BUTTON, POWER	
23	*3-703-705-01	STICKER, SONY SYMBOL (30)		92	*4-887-426-00	PLATE, SHIELD	
24	X-4887-402-0	COVER ASSY, DUST		93	*3-701-748-00	CLAMP	
25	7-682-547-04	SCREW +B 3X6		94	3-703-150-11	CLAMP	
26	*4-885-742-00	BRACKET, GUIDE		101	7-685-799-04	SCREW +PTT 1.7X2.5	
27	4-887-404-00	(SILVER)...HINGE		102	4-908-114-01	(SILVER)...PIPE, ARM	
	4-887-404-11	(BLACK)...HINGE			4-908-114-11	(BLACK)...PIPE, ARM	
28	*3-465-048-00	SHAFT		103	7-627-553-37	(SILVER)...SCREW, PRECISION +P 2X3	
29	4-885-748-00	PIN, ADJUSTMENT		104	4-887-321-01	SCREW (B1.7X4) (G), SELF-TAPPING	
30	4-885-747-00	WASHER (H)		105	4-885-709-00	BAR, GUIDE	
31	7-624-190-81	STOP RING 2, TYPE-CS		106	4-887-449-01	SHAFT, PIVOT	
32	4-885-741-00	SPACER		107	7-688-003-01	W 3, SMALL	
33	3-703-137-00	SCREW, TAPPING, +PTPMH 3X10		108	4-887-454-01	BRIDGE, ARM	
34	4-885-744-00	STOPPER, WIRE		109	2-203-518-61	SCREW, PIVOT	
35	X-4885-325-0	PULLEY ASSY		110	2-203-519-21	(BLACK)...NUT (A), LOCK, PIVOT	
36	7-633-120-45	STRING, TETRON DIAL (0.5MM)			2-203-519-01	(SILVER)...NUT (A), LOCK, PIVOT	
37	3-570-118-00	CUSHION, MOTOR		111	4-887-439-01	SPRING, TENSION	
38	3-570-027-00	SCREW, MOTOR		112	7-621-772-00	SCREW +B 2X3	
39	*4-885-787-00	GUIDE, LEAD WIRE		113	7-623-420-07	LW 2, TYPE B	
40	*4-885-750-00	GUIDE, ROLLER		114	7-621-772-08	SCREW +B 2X3	
41	4-885-777-00	(SILVER)...ESCUTCHEON, ROLLER GUIDE		115	*4-887-446-01	PLATE, SHIELD	
	4-885-777-11	(BLACK)...ESCUTCHEON, ROLLER GUIDE		116	7-621-775-00	SCREW +B 2.6X3	
42	X-4885-702-0	BRACKET ASSY, MOTOR		117	*4-887-437-01	BASE, LIFTER	
43	X-4885-710-0	WORM ASSY		118	7-624-102-04	STOP RING 1.5, TYPE -E	
44	4-885-703-00	GUIDE, WORM SHAFT		119	3-701-437-21	WASHER	
45	4-885-735-00	BELT, DRIVING		120	*X-4887-409-1	LEVER ASSY, LIFTER	
46	7-682-545-04	SCREW +B 3X4		121	4-885-764-02	SPRING, COMPRESSION	
47	3-701-441-21	WASHER		122	4-885-706-04	SCREW, ADJUSTMENT, POSITION	
48	4-885-749-00	WHEEL, WORM		123	7-621-773-95	SCREW +B 2.6X6	
49	4-885-767-00	SPRING, TENSION		124	4-885-737-00	WIRE	
50	4-885-775-00	CAP, MOTOR		125	7-688-002-01	W 2.6, SMALL	
51	4-885-704-03	PULLEY, MOTOR		126	4-887-463-01	WASHER (B)	
52	7-623-616-01	EYELET, 2X3					

ELECTRICAL PARTS

No.	Part No.	Description	Remarks
127	X-4908-101-1	BEARING ASSY	
128	4-877-816-00	SHAFT, PIVOT	
129	7-623-208-22	SW 3, TYPE 2	
130	4-887-442-01	BASE, SWITCH	
131	7-627-553-38	(BLACK)...SCREW, PRECISION +P 2X3	
132	*4-885-792-00	PLUG IN SEAL (A)	
133	4-887-456-21	(SILVER)...COVER, ARM	
134	4-908-123-01	(BLACK)...COVER, ARM	
135	7-628-253-95	SCREW +PS 2.6X4	
136	X-4887-415-1	MAGNET ASSY, ARM	
137	7-682-548-09	SCREW +B 3X8	
138	4-908-117-01	WEIGHT (C)	
139	*4-887-444-01	RETAINER, WIRE	
140	7-621-772-30	SCREW +B 2X6	
141	4-885-766-00	SPRING, COMPRESSION	
142	4-887-461-01	SPRING, COMPRESSION	
143	*4-887-462-01	PLATE, ADJUSTMENT	
144	*4-887-440-01	BRACKET, SENSOR	
145	*X-4887-410-1	JOINT ASSY PIPE	
146	7-621-772-40	SCREW +B 2X8	
147	*4-887-465-01	SLIDER (B)	
148	3-701-443-11	WASHER	
149	7-624-108-04	STOP RING 4.0, TYPE -E	
150	4-887-443-01	ROLLER, GUIDE	
151	*X-4887-412-1	BASE ASSY, ARM	
153	7-624-133-44	STOP RING 9, TYPE-CE	

Ref.No.	Part No.	Description				
901	*1-508-878-00	BASE POST				
902	*1-508-880-00	BASE POST, MCD CONNECTOR 6P				
903	*1-535-115-00	TERMINAL				
904	*1-535-116-00	TERMINAL				
908	△.1-551-628-00	(US)...CORD, POWER				
	△.1-551-964-00	(Canadian)...CORD, POWER				
	△.1-551-427-11	(AEP)...CORD, POWER; EURO PLUG				
	△.1-551-188-XX	(E)...CORD, POWER				
909	1-551-294-34	(Canadian, AEP, E)... CORD, OUTPUT				
909	1-551-294-41	(US)... CORD, OUTPUT				
910	1-556-552-00	CONNECTOR (PLUG IN TYPE)				
911	*1-560-200-00	BASE POST, MCD CONNECTOR 2P				
912	*1-564-496-11	PIN, CONNECTOR 3P				
913	*1-564-501-11	PIN, CONNECTOR 8P				
914	*1-564-518-11	PLUG, CONNECTOR 3P				
915	*1-564-527-11	PLUG, CONNECTOR 12P				
916	*1-608-536-00	PC BOARD, PRIMARY TRANSLATION				
917	*1-612-356-11	PC BOARD, SENSOR				
918	*1-612-357-21	PC BOARD, PHONO (B)				
919	*1-615-888-11	PC BOARD, POWER SWITCH				
920	*1-615-889-11	PC BOARD, SIRCS				
921	*1-615-890-11	PC BOARD, CLOCK				
922	*1-615-892-11	PC BOARD, SIZE				
923	A-4644-247-A	PC BOARD ASSY, STATOR				
924	*A-4644-249-A	MOUNTED PCB, SYSTEM CONTROL (INCLUDING LED(A),LED(B),PHONO(A) AND SIZE BOARDS)				
925	*A-4644-252-A	MOUNTED PCB, SERVO (INCLUDING POWER SWITCH, SIRCS,TRANSISTOR(A) AND TRANSISTOR(B)BOARDS)				
C101	1-162-306-31	CERAMIC	0.01MF	30%	16V	
C102	1-162-302-31	CERAMIC	0.0022MF	30%	16V	
C103	1-123-661-00	ELECT	100MF	20%	6.3V	
C104	1-136-165-00	FILM	0.1MF	5%	50V	
C105	1-162-211-31	CERAMIC	33PF	5%	50V	
C106	1-162-211-31	CERAMIC	33PF	5%	50V	
C107	1-162-306-31	CERAMIC	0.01MF	30%	16V	
C108	1-162-306-31	CERAMIC	0.01MF	30%	16V	
C109	1-162-306-31	CERAMIC	0.01MF	30%	16V	
C110	1-136-161-00	FILM	0.047MF	5%	50V	
C111	1-136-165-00	FILM	0.1MF	5%	50V	
C112	1-136-160-00	FILM	0.039MF	5%	50V	
C113	1-123-612-00	ELECT	2.2MF	20%	50V	
C114	1-123-612-00	ELECT	2.2MF	20%	50V	
C115	1-123-612-00	ELECT	2.2MF	20%	50V	
C116	1-123-612-00	ELECT	2.2MF	20%	50V	
C118	1-123-661-00	ELECT	100MF	20%	6.3V	
C201	1-162-306-31	CERAMIC	0.01MF	30%	16V	

<p>The components identified by shading and mark △ are critical for safety. Replace only with part number specified.</p>	<p>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.</p>
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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C202	1-123-611-00	ELECT	1MF	20%	50V
C204	1-162-306-31	CERAMIC	0.01MF	30%	16V
C206	1-123-611-00	ELECT	1MF	20%	50V
C207	1-123-611-00	ELECT	1MF	20%	50V
C210	1-162-306-31	CERAMIC	0.01MF	30%	16V
C211	1-123-622-00	ELECT	22MF	20%	16V
C212	1-162-306-31	CERAMIC	0.01MF	30%	16V
C213	1-162-306-31	CERAMIC	0.01MF	30%	16V
C214	1-123-661-00	ELECT	100MF	20%	6.3V
C216	1-123-611-00	ELECT	1MF	20%	50V
C224	1-123-617-00	ELECT	10MF	20%	16V
C228	1-123-661-00	ELECT	100MF	20%	6.3V
C230	1-162-306-31	CERAMIC	0.01MF	30%	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
C307	1-161-494-00	CERAMIC	0.022MF	30%	25V
C401	1-123-337-00	ELECT	1000MF	20%	25V
C402	1-123-337-00	ELECT	1000MF	20%	25V
C403	1-123-661-00	ELECT	100MF	20%	6.3V
C404	1-123-661-00	ELECT	100MF	20%	6.3V
C406	1-123-619-00	ELECT	4.7MF	20%	50V
C407	1-123-619-00	ELECT	4.7MF	20%	50V
C501	1-162-207-31	CERAMIC	22PF	5%	50V
C502	1-162-213-31	CERAMIC	39PF	5%	50V
D101	8-719-000-12	DIODE MC931			
D102	8-719-000-12	DIODE MC931			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D203	8-719-101-63	DIODE RD6.8E-L1			
D204	8-719-101-63	DIODE RD6.8E-L1			
D301	8-719-907-36	DIODE GL-5EG22			
D302	8-719-907-36	DIODE GL-5EG22			
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	8-719-911-19	DIODE 1SS119			
D307	8-719-911-19	DIODE 1SS119			
D401	8-719-200-02	DIODE 10E-2			
D402	8-719-200-02	DIODE 10E-2			
D403	8-719-200-02	DIODE 10E-2			
D404	8-719-200-02	DIODE 10E-2			
D408	8-719-101-67	DIODE RD7.5E-L2			
D409	8-719-101-67	DIODE RD7.5E-L2			
D501	8-719-911-19	DIODE 1SS119			
H101	8-719-920-37	ELEMENT, HALL HW-300B			
H102	8-719-920-37	ELEMENT, HALL HW-300B			
IC101	8-759-201-58	IC TC9142P			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC102	8-759-600-02	IC M5218L
IC201	8-759-802-00	IC LM6402G-575
IC202	8-759-600-02	IC M5218L
IC203	8-759-600-02	IC M5218L
J301	1-507-813-00	JACK (SYNC)
J302	*1-560-317-00	CONNECTOR PIN 6P (SYSTEM CONTROL)
J501	*1-564-980-11	PIN, CONNECTOR 4P (CONTROL IN)
J502	*1-564-980-11	PIN, CONNECTOR 4P (CONTROL OUT)
L101	1-410-033-11	MICRO INDUCTOR 100UH
L201	1-410-033-11	MICRO INDUCTOR 100UH
L301	1-422-162-11	COIL
M301	1-541-218-00	MOTOR
PH301	8-719-411-28	ON1128
PL301	1-518-169-XX	LAMP, PILOT
PS409	1-532-605-00	LINK, IC
PS410	1-532-605-00	LINK, IC
Q101	8-729-400-81	TRANSISTOR 2SD1266-Q
Q102	8-729-802-34	TRANSISTOR 2SD1388
Q103	8-729-802-34	TRANSISTOR 2SD1388
Q104	8-729-802-34	TRANSISTOR 2SD1388
Q105	8-729-802-34	TRANSISTOR 2SD1388
Q106	8-729-802-22	TRANSISTOR 2SB1014
Q107	8-729-802-22	TRANSISTOR 2SB1014
Q108	8-729-802-22	TRANSISTOR 2SB1014
Q109	8-729-802-22	TRANSISTOR 2SB1014
Q110	8-729-606-33	TRANSISTOR 2SC2603F
Q111	8-729-606-33	TRANSISTOR 2SC2603F
Q112	8-729-606-33	TRANSISTOR 2SC2603F
Q113	8-729-606-33	TRANSISTOR 2SC2603F
Q114	8-729-606-33	TRANSISTOR 2SC2603F
Q117	8-729-606-33	TRANSISTOR 2SC2603F
Q201	8-729-606-33	TRANSISTOR 2SC2603F
Q203	8-729-900-67	TRANSISTOR DTA124XS
Q204	8-729-900-61	TRANSISTOR DTA114ES
Q205	8-729-900-80	TRANSISTOR DTC114ES
Q206	8-729-900-80	TRANSISTOR DTC114ES
Q207	8-729-900-63	TRANSISTOR DTA124ES
Q209	8-729-141-42	TRANSISTOR 2SD414-R
Q210	8-729-173-13	TRANSISTOR 2SB731
Q211	8-729-900-80	TRANSISTOR DTC114ES
Q212	8-729-606-33	TRANSISTOR 2SC2603F
Q213	8-729-141-42	TRANSISTOR 2SD414-R
Q214	8-729-900-36	TRANSISTOR DTC124ES
Q215	8-729-606-33	TRANSISTOR 2SC2603F
Q216	8-729-606-33	TRANSISTOR 2SC2603F
Q301	8-729-101-01	TRANSISTOR PH101
Q302	8-729-101-01	TRANSISTOR PH101
Q401	8-729-141-42	TRANSISTOR 2SD414-R
Q402	8-729-400-11	TRANSISTOR 2SB941-Q

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q404	8-729-606-33	TRANSISTOR 2SC2603F			
Q405	8-729-117-54	TRANSISTOR 2SA1175			
Q501	8-729-900-61	TRANSISTOR DTA114ES			
R101	1-247-879-00	CARBON	100K	5%	1/6W
R102	1-247-807-00	CARBON	100	5%	1/6W
R105	1-249-421-11	CARBON	2.2K	5%	1/6W
R106	1-247-893-00	CARBON	390K	5%	1/6W
R107	1-247-893-00	CARBON	390K	5%	1/6W
R108	1-247-887-00	CARBON	220K	5%	1/6W
R109	1-247-871-00	CARBON	47K	5%	1/6W
R110	1-247-863-00	CARBON	22K	5%	1/6W
R111	1-247-825-00	CARBON	560	5%	1/6W
R112	1-247-835-00	CARBON	1.5K	5%	1/6W
R113	1-247-825-00	CARBON	560	5%	1/6W
R114	1-247-807-00	CARBON	100	5%	1/6W
R116	1-247-831-00	CARBON	1K	5%	1/6W
R117	1-247-831-00	CARBON	1K	5%	1/6W
R118	1-247-831-00	CARBON	1K	5%	1/6W
R119	1-247-831-00	CARBON	1K	5%	1/6W
R120	1-247-815-00	CARBON	220	5%	1/6W
R121	1-247-815-00	CARBON	220	5%	1/6W
R122	1-247-815-00	CARBON	220	5%	1/6W
R123	1-247-815-00	CARBON	220	5%	1/6W
R124	1-247-815-00	CARBON	220	5%	1/6W
R125	1-247-815-00	CARBON	220	5%	1/6W
R126	1-247-815-00	CARBON	220	5%	1/6W
R127	1-247-815-00	CARBON	220	5%	1/6W
R128	1-247-815-00	CARBON	220	5%	1/6W
R129	1-247-823-00	CARBON	470	5%	1/6W
R130	1-247-823-00	CARBON	470	5%	1/6W
R131	1-247-783-00	CARBON	10	5%	1/6W
R132	1-247-845-00	CARBON	3.9K	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	1-249-421-11	CARBON	2.2K	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
R226	1-247-861-00	CARBON	18K	5%	1/6W
R227	1-247-851-00	CARBON	6.8K	5%	1/6W
R228	1-247-861-00	CARBON	18K	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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
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
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	1-247-807-00	CARBON	100	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
R290	1-247-863-00	CARBON	22K	5%	1/6W
R404	1-247-836-00	CARBON	1.6K	5%	1/6W
R405	1-247-811-00	CARBON	150	5%	1/6W
R406	1-247-837-00	CARBON	1.8K	5%	1/6W
R407	1-247-811-00	CARBON	150	5%	1/6W
R408	▲ 1-217-395-00	FUSIBLE	47	5%	1/4W F
R501	1-247-903-00	CARBON	1M	5%	1/6W
R502	1-247-857-00	CARBON	12K	5%	1/6W
R505	1-247-861-00	CARBON	18K	5%	1/6W
R506	1-247-807-00	CARBON	100	5%	1/6W
R507	1-247-783-00	CARBON	10	5%	1/6W
RY301	1-515-519-00	RELAY			

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PS-LX520

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S201	1-553-976-00	SWITCH, PUSH
S202	1-553-976-00	SWITCH, PUSH
S203	1-553-976-00	SWITCH, PUSH
S204	1-553-976-00	SWITCH, PUSH
S205	1-553-976-00	SWITCH, PUSH
S206	1-553-976-00	SWITCH, PUSH
S301	1-554-817-11	SWITCH, TONEARM
S302	1-553-331-21	SWITCH, PUSH (POWER)
S902	△.1-552-535-00	(E)...SWITCH, SLIDE (VOLTAGE SELECTOR)
T901	△.1-447-515-21	(US,Canadian)...TRANSFORMER, POWER
T901	△.1-447-516-21	(AEP)...TRANSFORMER, POWER
T901	△.1-447-517-31	(E)...TRANSFORMER, POWER
THP411	1-806-882-11	THERMISTOR (POSITIVE)
THP412	1-806-882-11	THERMISTOR (POSITIVE)
X101	1-527-380-21	CRYSTAL, OSC
X501	1-567-192-11	OSCILLATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
501	X-4887-418-1	(SOME US WITHOUT ACCESSORY CARTRIDGE:BLACK) ...SCREW ASSY, CARTRIDGE FITTING
502	*3-701-616-00	BAG, POLYETHYLENE
503	3-795-753-21	INSTRUCTION
504	4-887-481-01	(BLACK)...SCREW (B), CARTRIDGE FITTING
505	X-4887-419-1	(SOME US WITHOUT ACCESSORY CARTRIDGE:SILVER) ...SCREW ASSY, CARTRIDGE FITTING
506	3-701-616-00	BAG, POLYETHYLENE
507	3-795-753-21	INSTRUCTION
508	4-887-481-01	(BLACK)...SCREW (B), CARTRIDGE FITTING
	4-887-481-11	(SILVER)...SCREW (B), CARTRIDGE FITTING
509	1-556-372-41	CORD, CONNECTION (4 CORE)
510	1-557-569-11	CORD, CONNECTION
511	*3-701-630-00	BAG, POLYETHYLENE
512	3-701-806-00	ADAPTOR, 45, (E)
513	3-760-547-11	{AEP,E}.....MANUAL, INSTRUCTION
	3-760-547-21	{US,Canadian}...MANUAL, INSTRUCTION
	3-760-547-31	{Canadian}.....MANUAL, INSTRUCTION
	3-760-547-41	{AEP}.....MANUAL, INSTRUCTION
514	4-883-720-00	TURNTABLE
515	4-883-723-01	{AEP,E}.....SHEET, TURNTABLE
	4-883-723-11	{US,Canadian}...SHEET, TURNTABLE
516	3-565-234-00	BAG, PROTECTION (UNIT)
517	3-701-634-00	BAG, POLYETHYLENE (TURNTABLE)
518	3-703-137-00	SCREW, SELF-TAPPING
519	3-703-895-01	(BLACK)...LABEL, COLOR
520	3-703-906-01	(SILVER)...LABEL, COLOR
521	4-350-525-00	SHEET, PROTECTION
522	4-880-101-00	PLATE (B), PROTECTION
523	4-885-779-00	BOLSTER, ARM
524	4-885-780-00	CUSHION, ARM
525	4-885-782-00	PROTECTOR (B)
526	4-887-309-11	LABEL (A), CAUTION
527	4-887-420-00	CUSHION (RIGHT)
528	4-887-421-00	CUSHION (LEFT)
529	4-887-423-00	HOLDER, TURNTABLE
530	4-887-441-01	COVER, ARM LOCK
531	4-887-482-01	(PS-LX520)...INDIVIDUAL CARTON
	4-887-483-01	(PS-LX520C)...INDIVIDUAL CARTON
532	1-549-117-21	(Canadian,SOME US)...CARTRIDGE:VL-45G (B)
533	△.1-526-565-12	(E)...ADAPTOR, AC PLUG

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