

PS-LX410/LX410(C)

SERVICE MANUAL



The PS-LX410 (AEP, UK, E Model) is supplied with a XL-250G cartridge, while the PS-LX410 (US model) is not supplied with a cartridge.

PS-LX410:
US Model
AEP Model
UK Model
E Model

PS-LX410(C):
US Model
Canadian Model

PS-LX410/LX410(C)

Cartridge XL-250G

Type	Moving magnet type
Frequency response	20 Hz to 20,000 Hz
Channel separation	8 dB at 1 kHz
Output voltage	5 mV at 1 kHz, 5 cm/sec., 45°
Load impedance	47 to 100 kilohms
Tracking force	1.0 to 1.5 g (1.25 g recommended)
Stylus	Sony ND-250G
Weight	6 g

General

Power requirements	US, Canadian model: 120 V ac, 60 Hz AEP model: 220 V ac, 50/60 Hz UK model: 240 V ac, 50/60 Hz E model: 110–220 or 220–240 V ac, adjustable 50/60 Hz
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Power consumption

Dimensions Approx. 430 × 110 × 340 mm (w/h/d)
(17 × 4 1/4 × 13 3/8 in.)

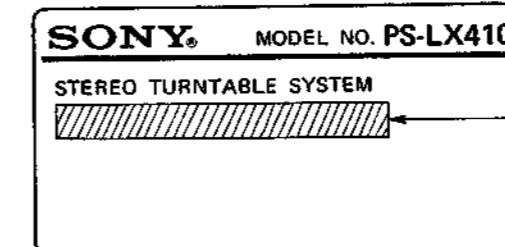
including projecting parts and controls

Weight Approx. 4.7 kg (10 lbs 6 oz), net
Approx. 5.7 kg (12 lbs 9 oz), in shipping carton

MODEL IDENTIFICATION

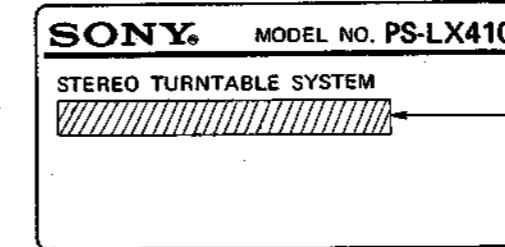
— Specification Label —

PS-LX410



US: AC: 120V 60Hz 8W
AEP: AC: 220V ~ 50/60Hz 8W
UK: AC: 240V ~ 50/60Hz 8W
E: AC: 110–220V, 220–240V ~ 50/60Hz 8W

PS-LX410(C)



US, Canadian: AC: 120V 60Hz 8W

— Continued on page 2 —

STEREO TURNTABLE SYSTEM
SONY®



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.

AUD

FEATURES

Automatic turntable system

Automatic lead-in, return, reject and repeat functions are activated by merely pushing the buttons.

Linear torque BSL motor

Direct drive system with Sony's unique BSL (Brushless and slotless) motor which has a high signal-to-noise ratio to virtually eliminate wow and flutter. The motor's high torque assures a quick attainment of 33 $\frac{1}{3}$ rpm after only $\frac{1}{3}$ revolution.

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.

Low-mass tonearm and cartridge

The low-mass tonearm and cartridge allow the stylus to track with greater accuracy.

Resilient feet

The turntable has resilient feet that isolate the mechanism from external shock and vibration.

Disc centering guides

Disc centering guides facilitate placing a 30 cm record over the center spindle.

Wireless remote control operation

Using the optional RM-44 or RM-S410 system remote controller, start/stop play can be remotely controlled.

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.

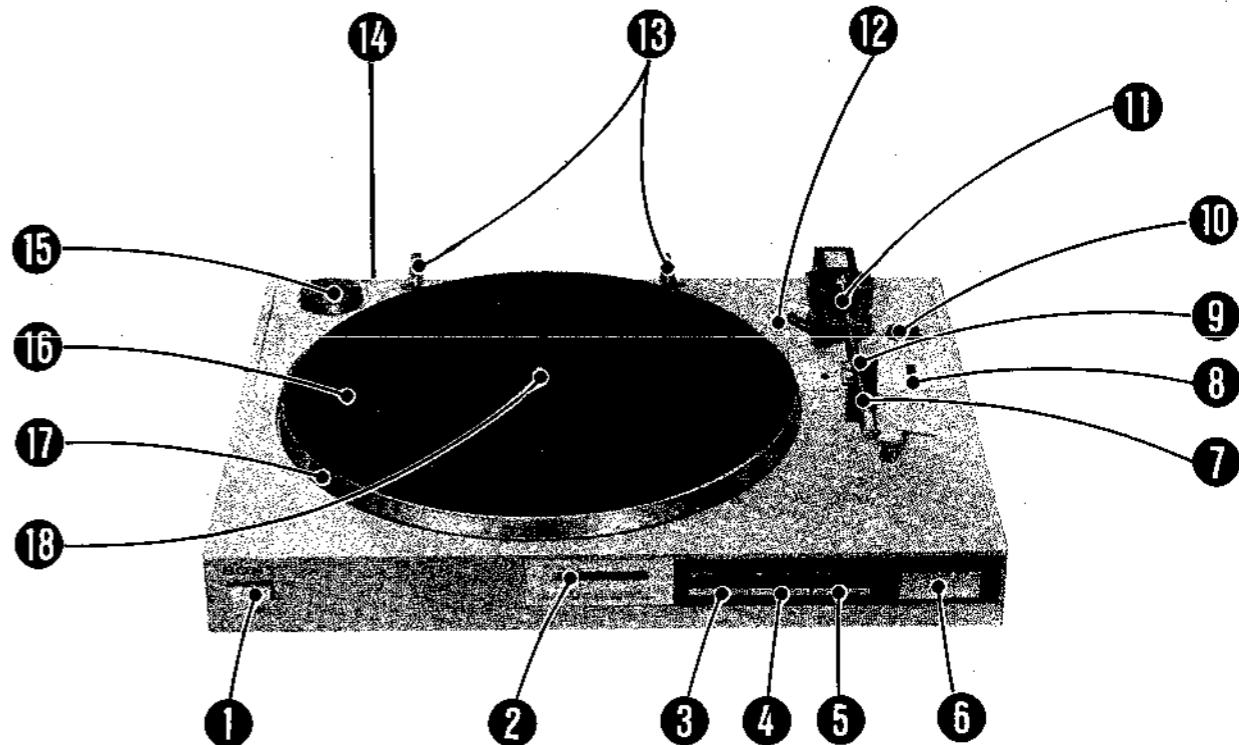
Notes on Repair

Check as follows when the turntable does not rotate.

1. Check to see if a waveform appears at Q107-110 emitter when DC 2V is applied to D105 cathode side.
If the waveform appears, the motor drive circuit and motor are not defective, but the servo circuit may be defective.
 2. If the motor does not rotate after step 1, the motor drive circuit or motor, etc. may be defective.
- 2-1. Motor Check
Check for power being conducted by applying a tester to the motor coil.
- 2-2. Hall Element Check
Measure the resistance values between each pin. (Between pins next to each other and diagonally across from each other.) The values should be about 600–1k Ω .

PARTS IDENTIFICATION

The numbers in the photo are keyed to the following explanations.



① POWER switch

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

② QUARTZ LOCK indicator

When the turntable platter starts rotating, this indicator flashes. When the platter speed is stabilized, this indicator lights up.

③ 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.

④ 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 arm rest and the turntable stops rotating.

⑤ Record SIZE selector and indicators

Selects the record size. When the POWER switch is turned on, the size is always 30 cm and the indicator on the right illuminates. When the selector is pressed, 17 cm is selected and the indicator on the left illuminates.

⑥ START/STOP button

Press this button to start the record playing, and the QUARTZ LOCK indicator flashes, then lights up. To stop during play, press it again.

⑦ Tonearm

⑧ V/V (cueing) lever
Used to lift or lower the tonearm.

⑨ Arm rest

⑩ ANTI-SKATING compensator

⑪ Sub-weight

⑫ Tonearm drop-point adjustment hole

⑬ Disc centering guides

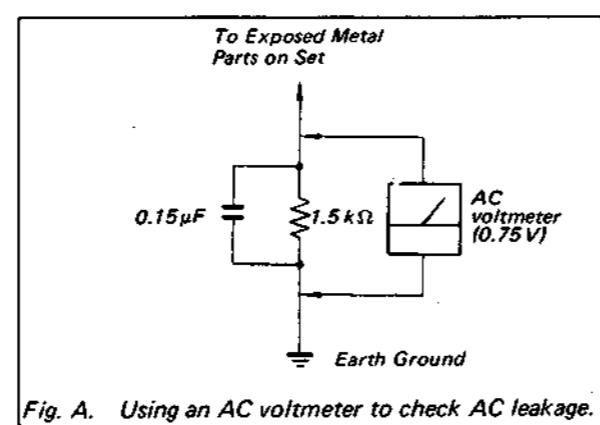
⑭ Remote connector (rear)
Connect the optional RM-44 or RM-S410 system remote controller to this connector.

⑮ 45-rpm adaptor

⑯ Rubber mat

⑰ Turntable platter

⑱ Center spindle

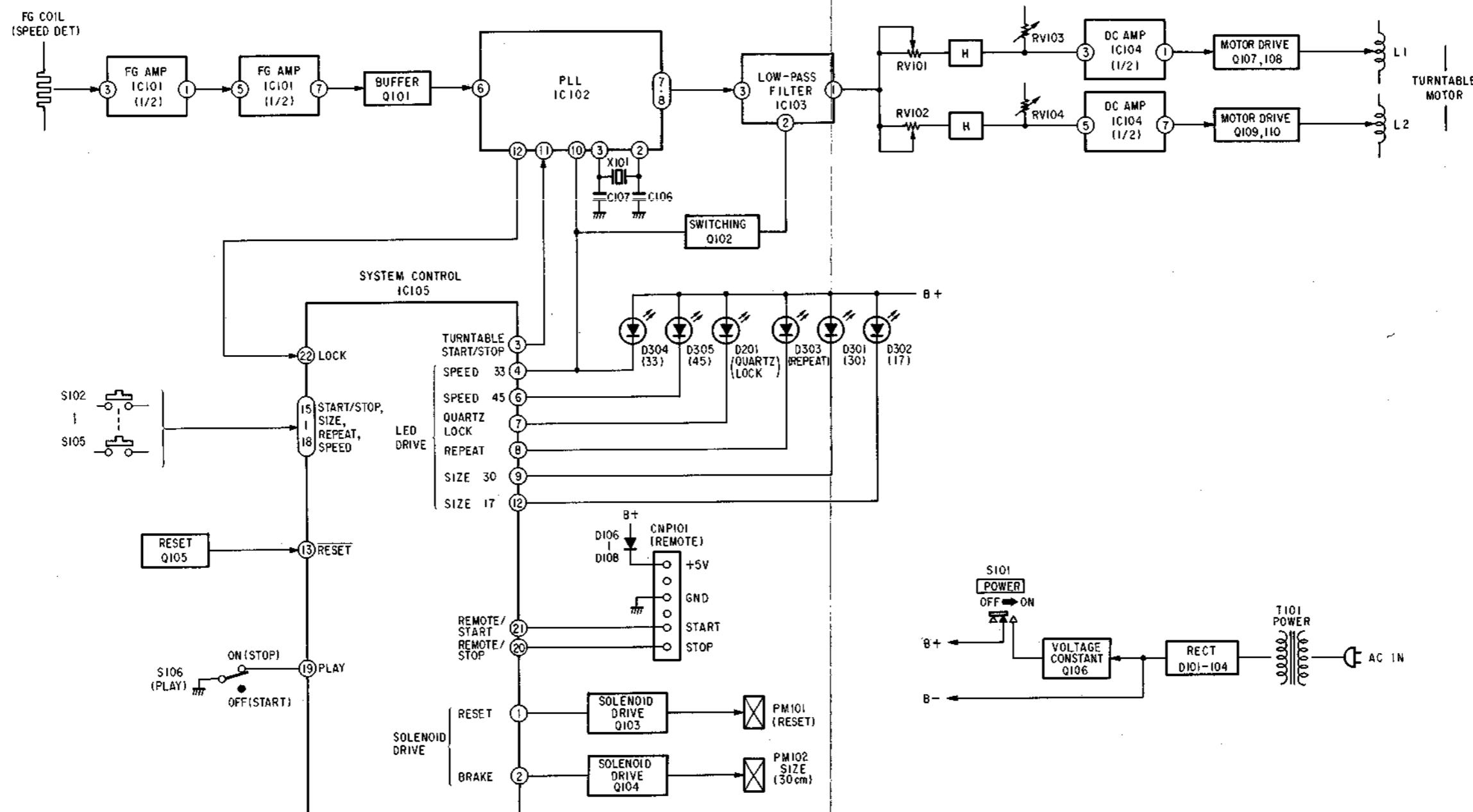


**SECTION 1
OUTLINE**

PS-LX410/LX410(C)

PS-LX410/LX410(C)

1-1. BLOCK DIAGRAM

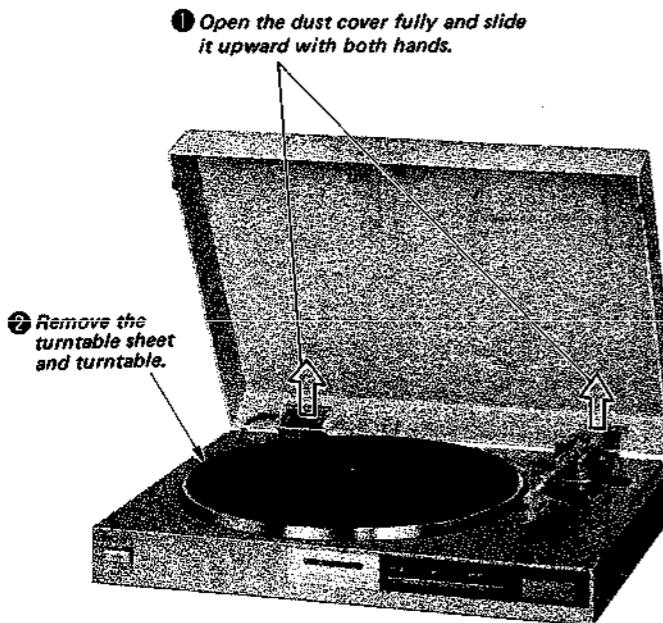


**SECTION 2
DISASSEMBLY**

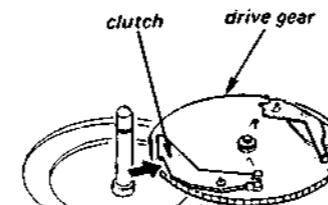
2-1. REMOVAL

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

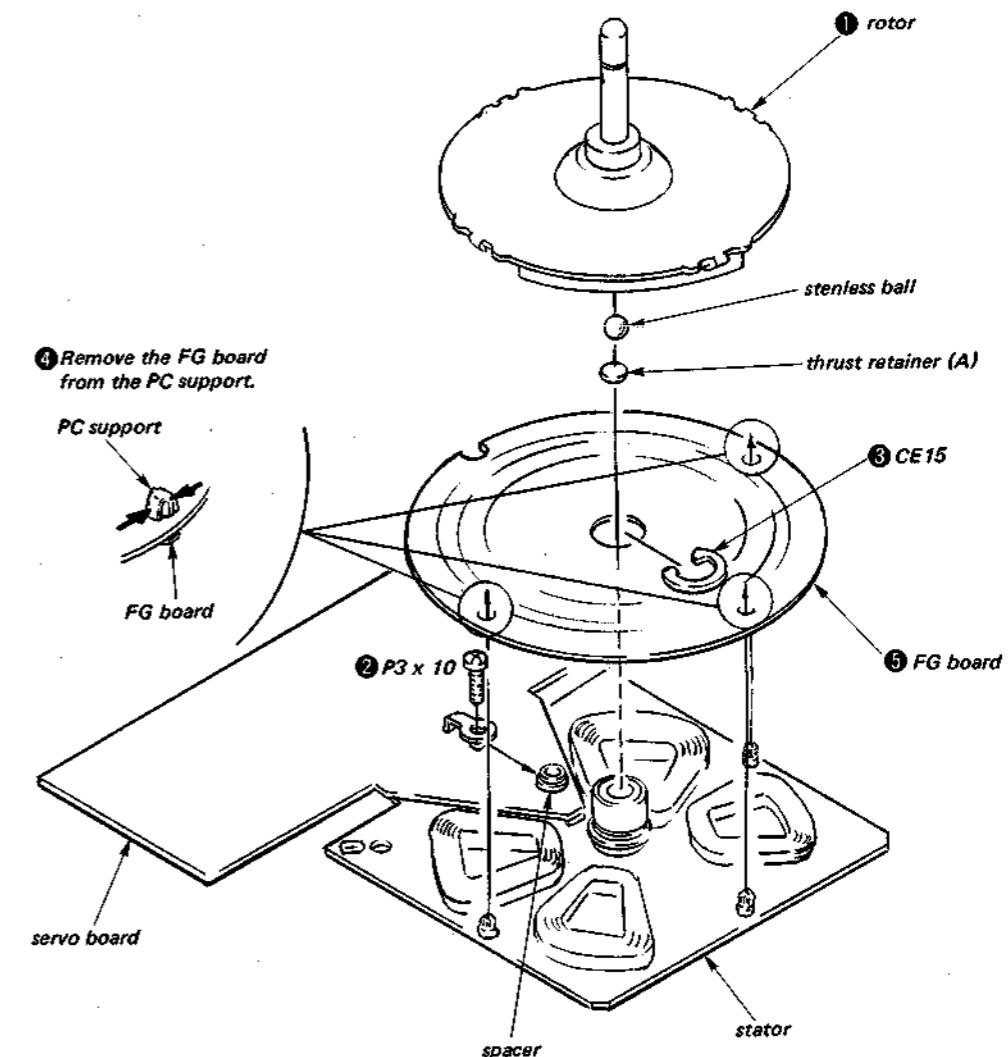
DUST COVER, TURNTABLE



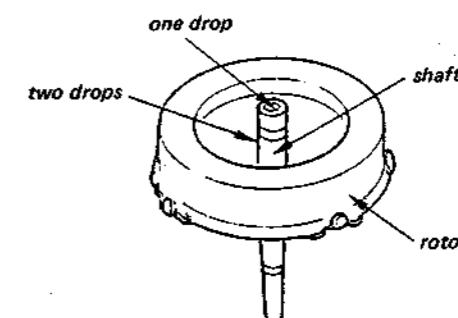
Caution for installation:
Move the clutch in the direction as shown by the arrow and put it the inside of the drive gear.



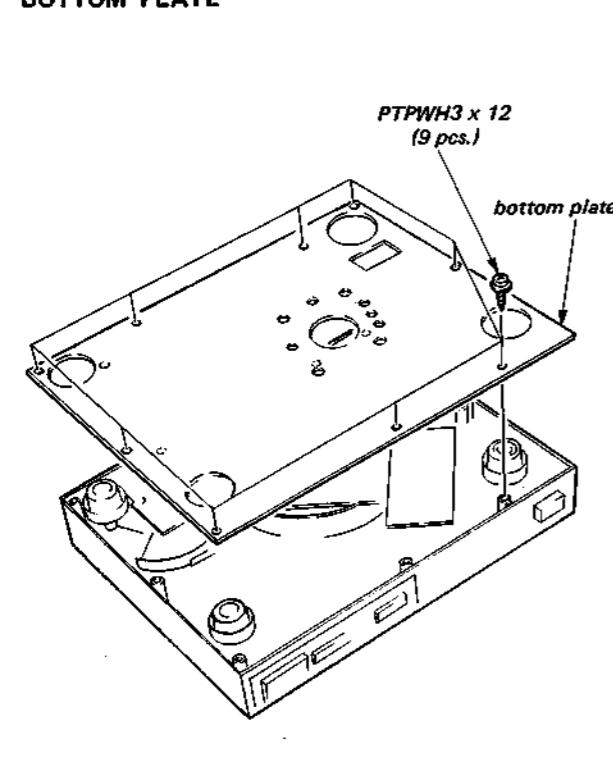
ROTOR, FG BOARD



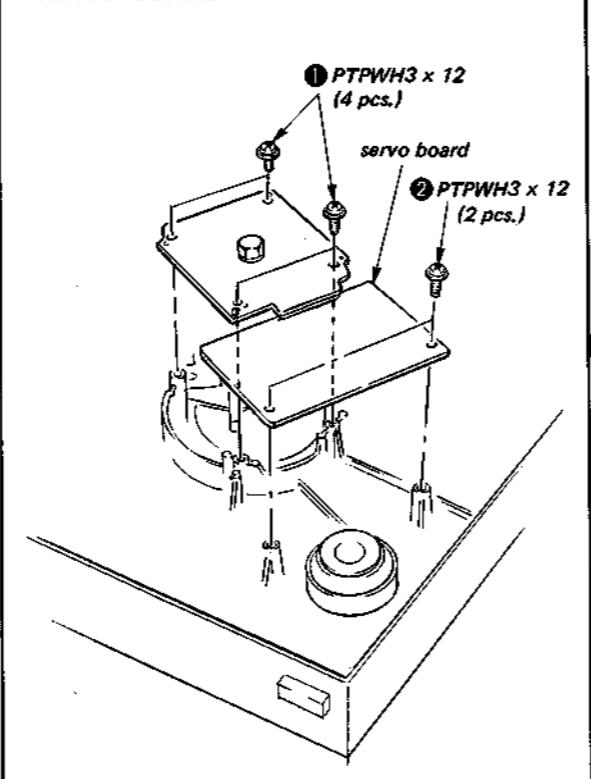
Caution for installation:
When the rotor is replaced, apply Sony oil OL-2KA to the rotor shaft as illustrated below.



BOTTOM PLATE

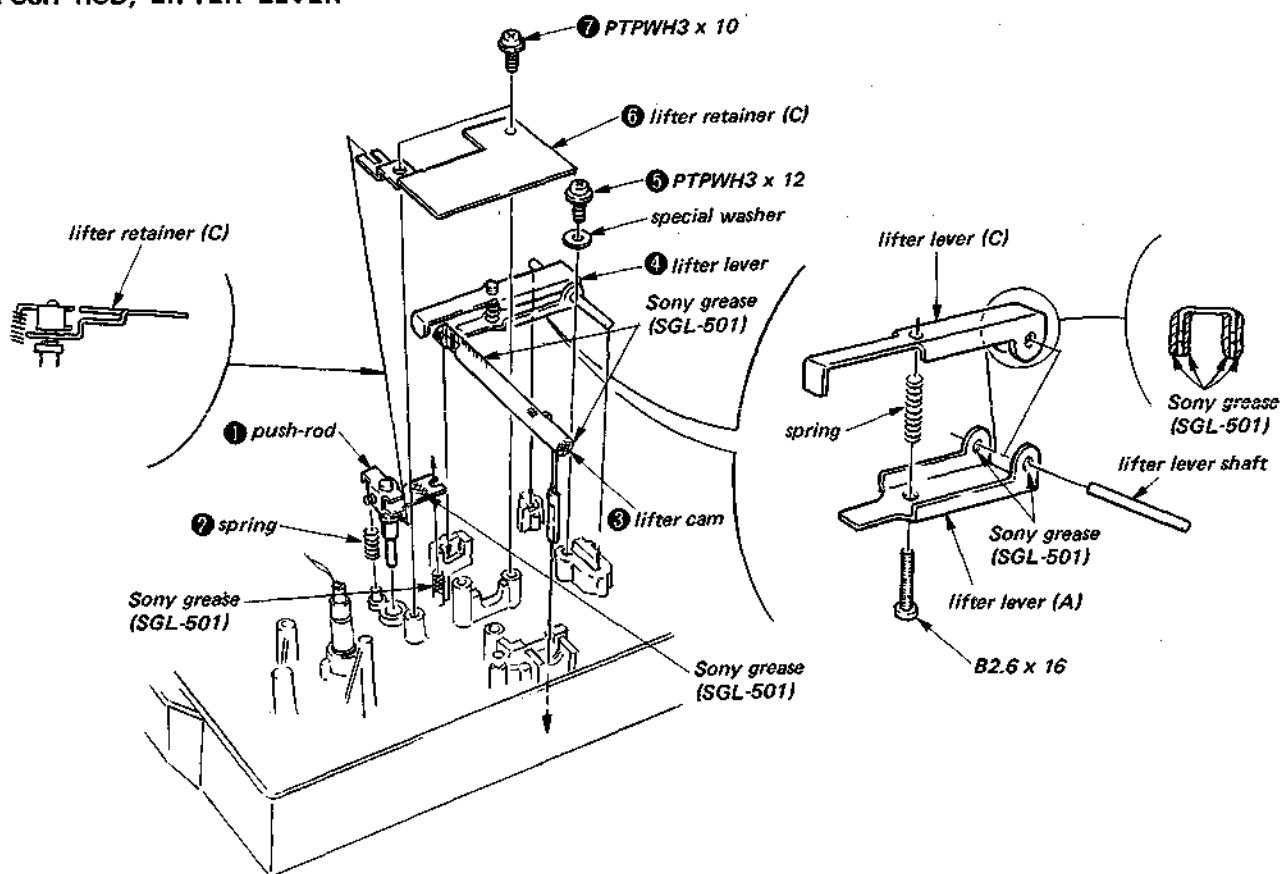


SERVO BOARD



2-2. INSTALLATION

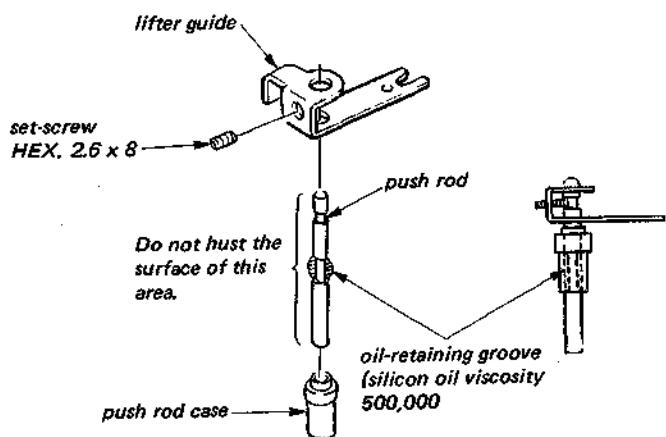
PUSH ROD, LIFTER LEVER

**Caution for installation:**

When the push rod is replaced, apply silicon oil (viscosity: 500,000 cs) to the push rod as illustrated below.

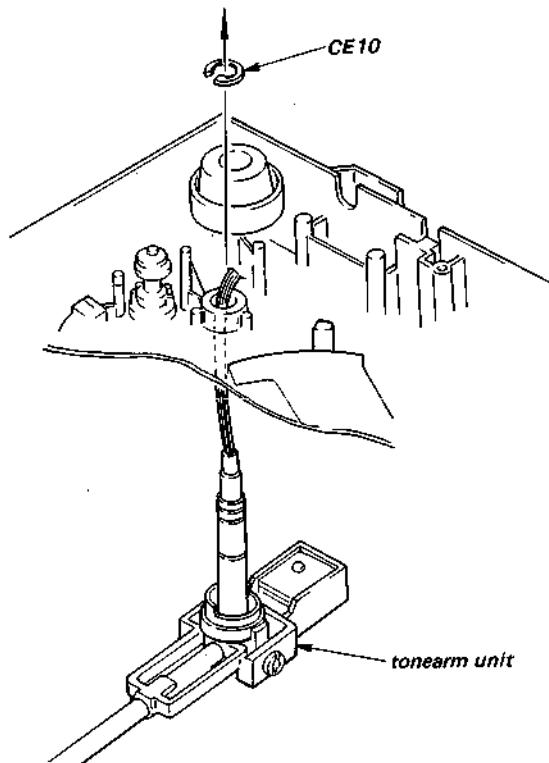
Caution:

When lubricating, rotate and move the push rod up and down a few times.

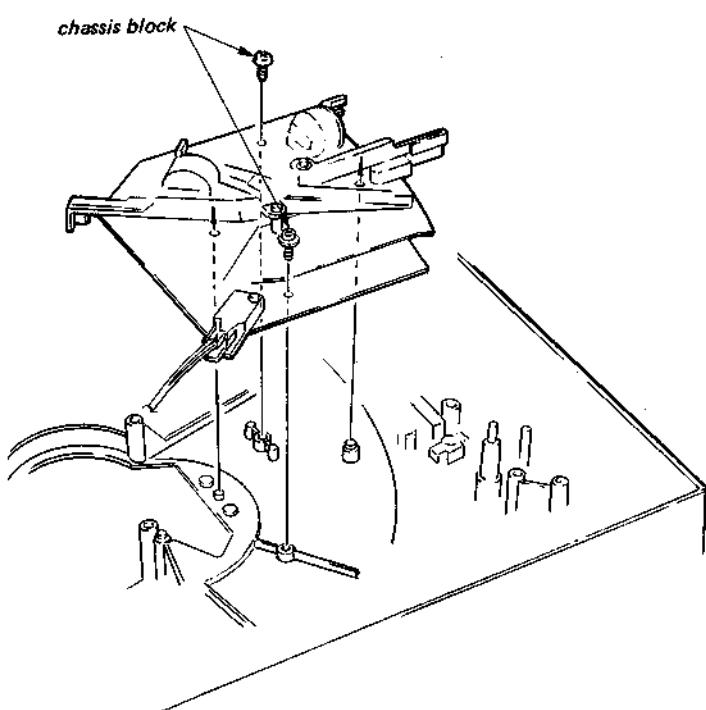


PS-LX410/LX410(C)

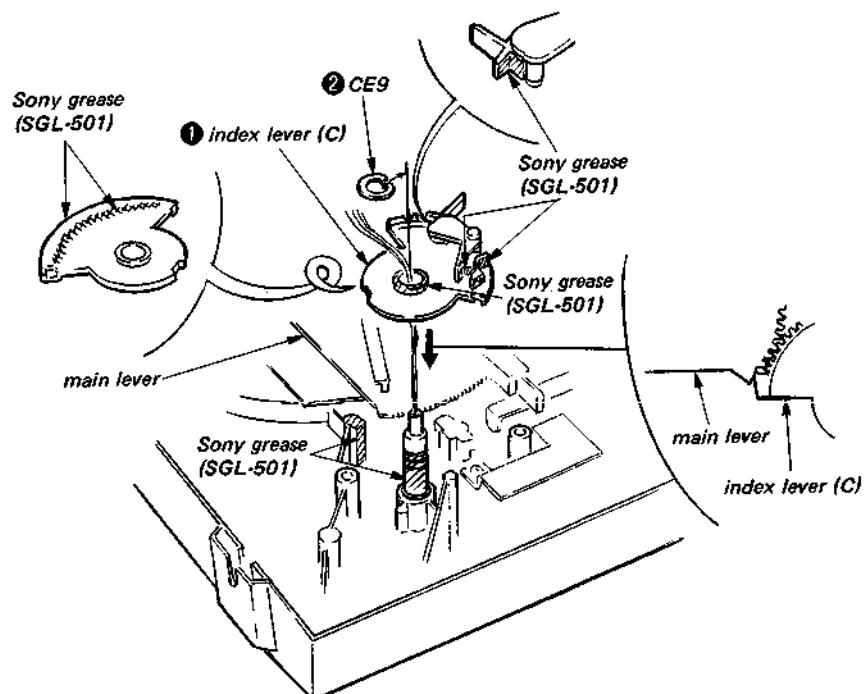
TONE ARM UNIT



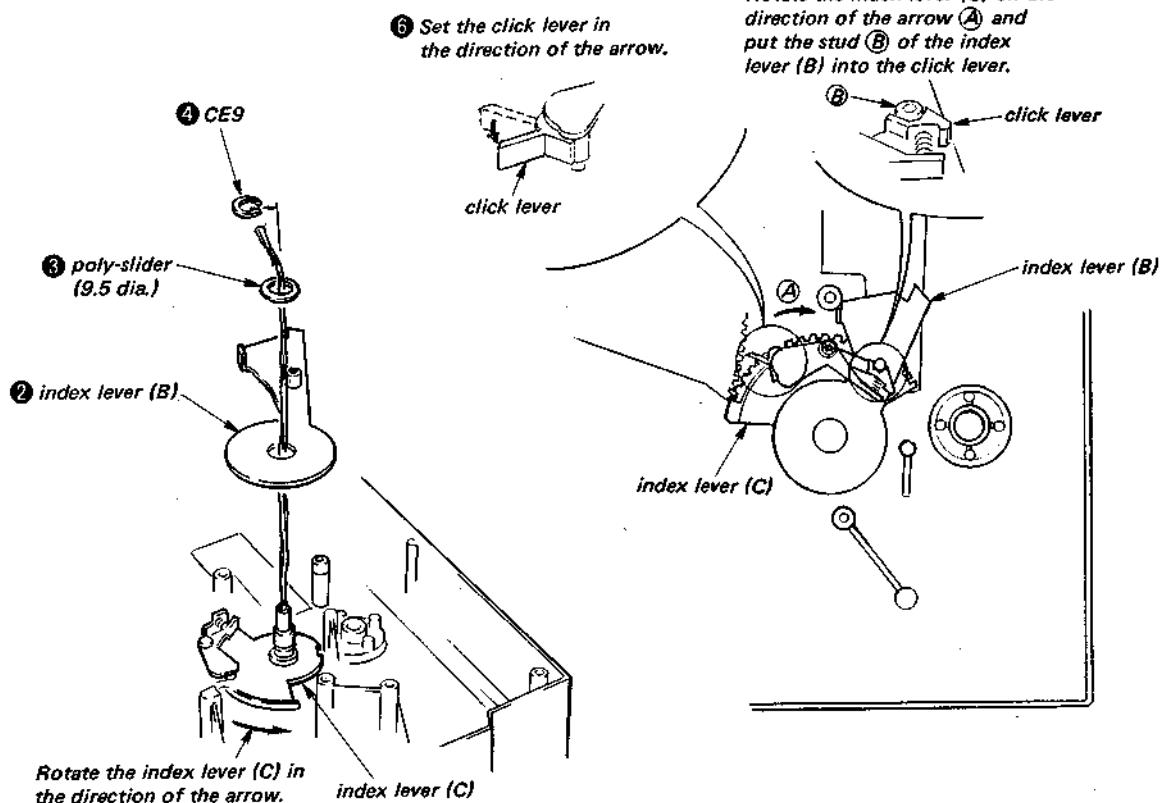
CHASSIS BLOCK



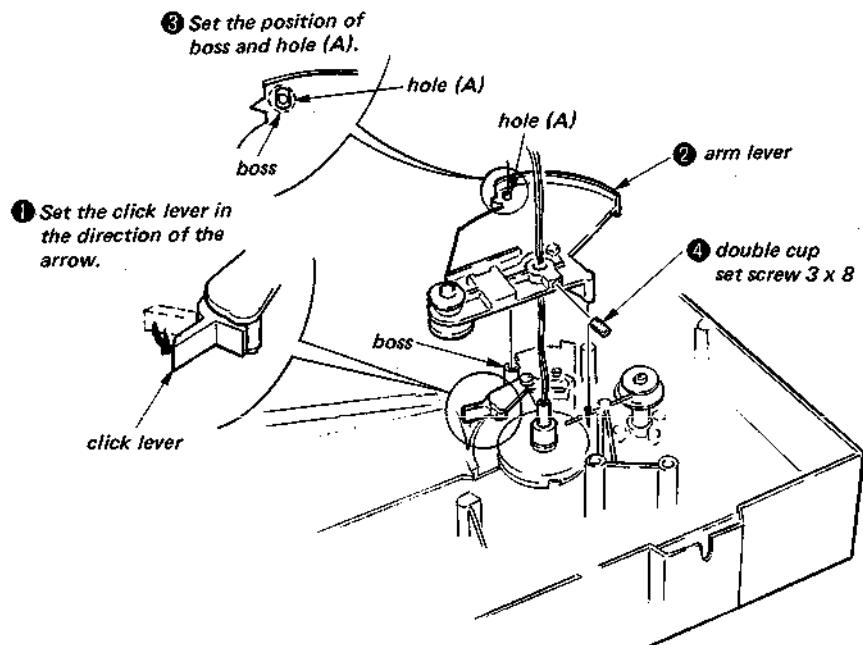
INDEX LEVER (C)



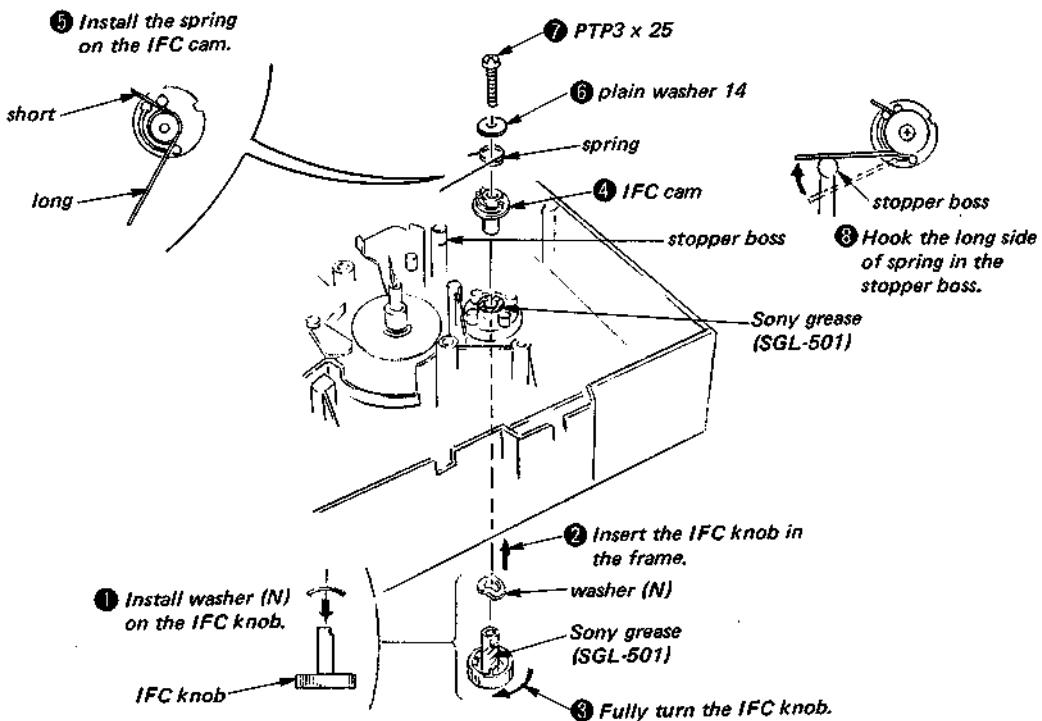
INDEX LEVER (B)



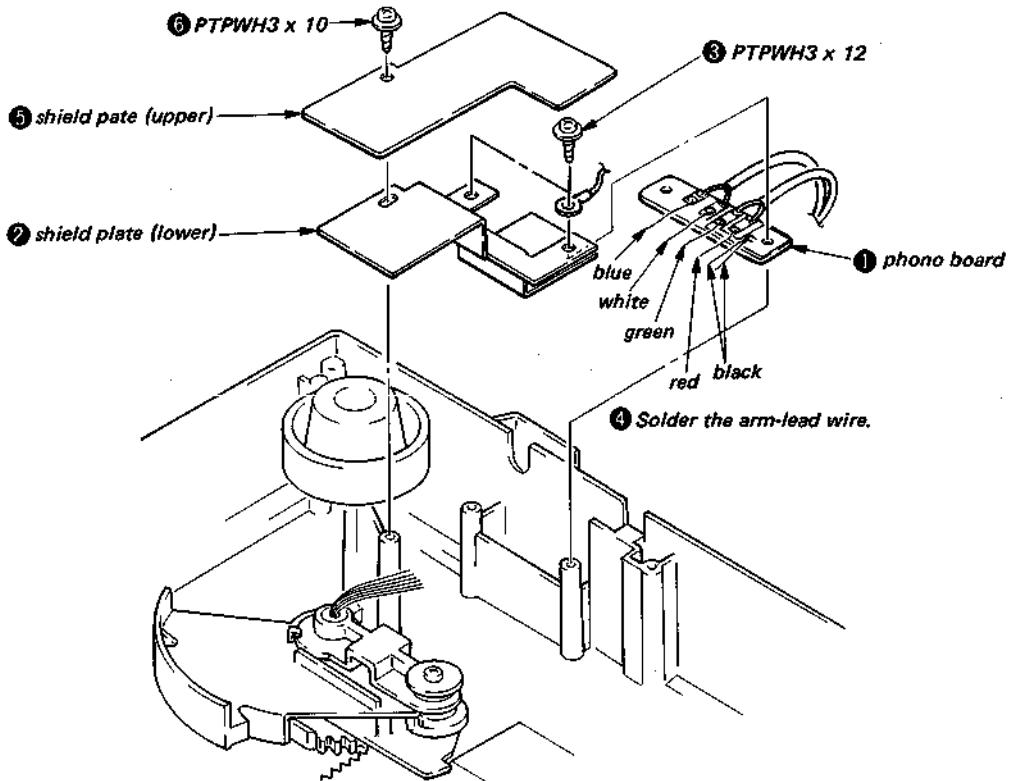
ARM LEVER



IFC (ANTI-SKATING) KNOB

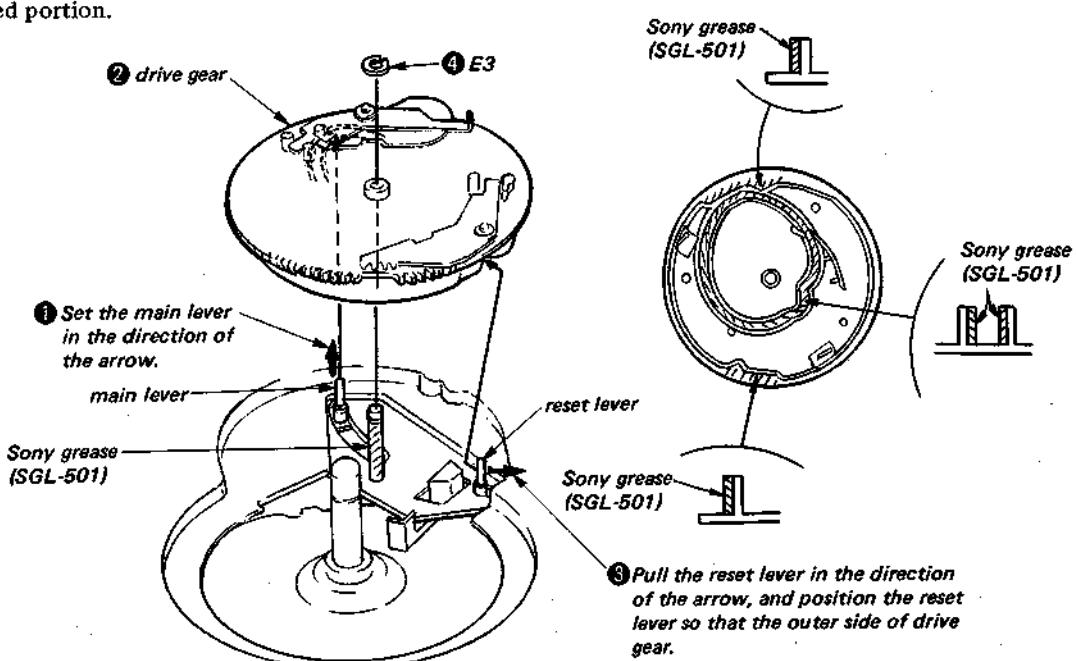


PHONO BOARD

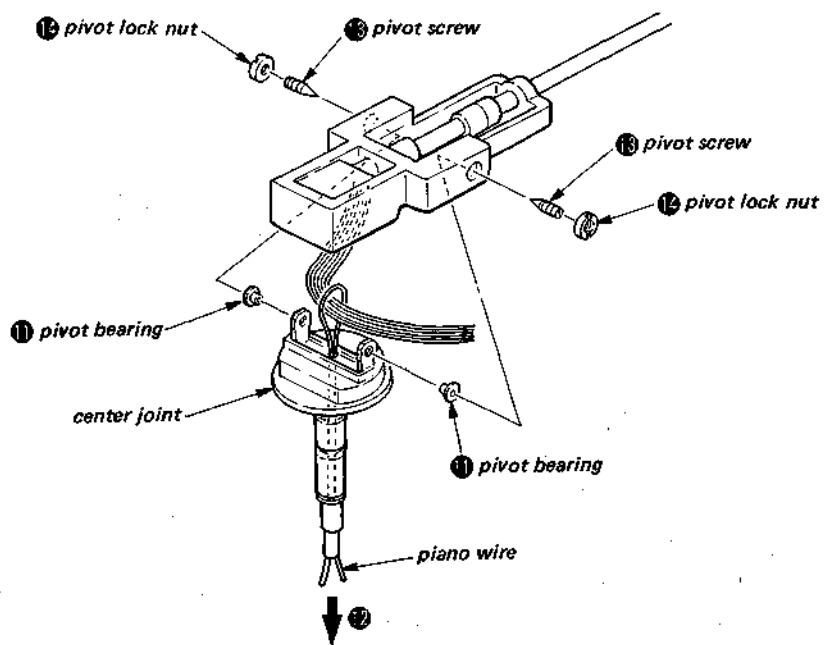
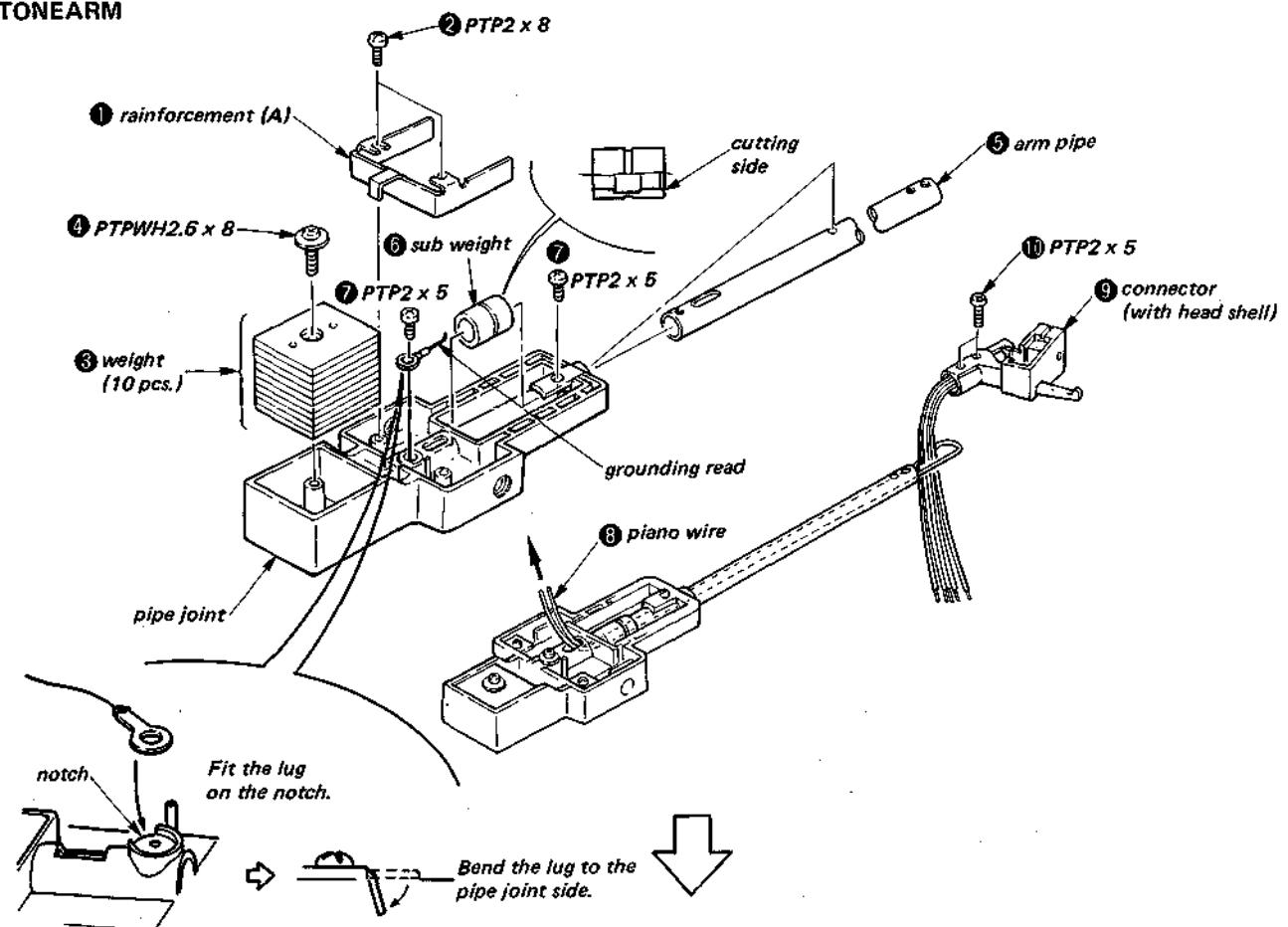


DRIVE GEAR

If necessary, apply Sony grease (SGL-510) to the specified portion.



TONEARM



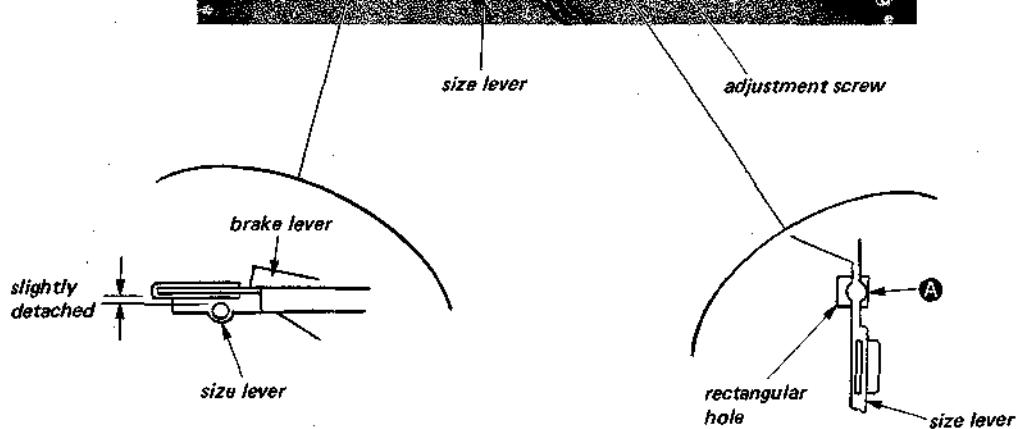
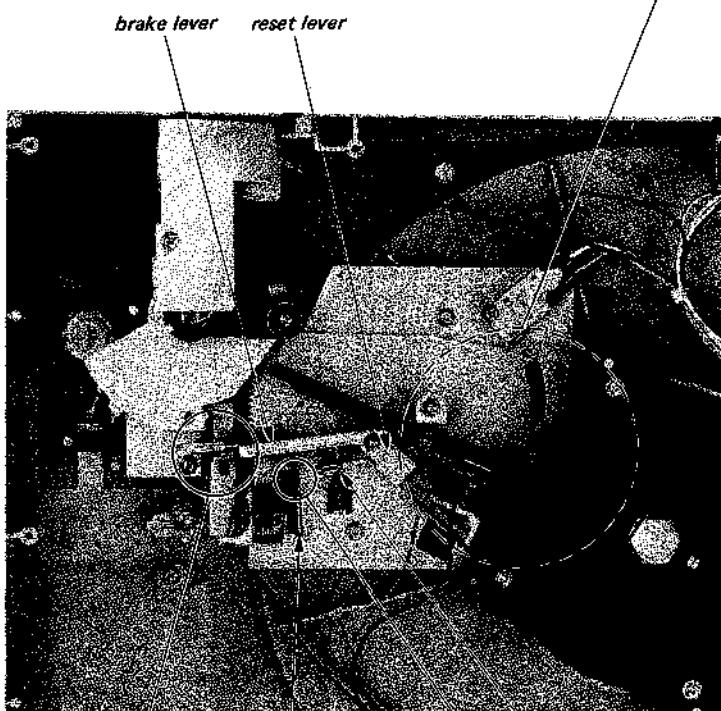
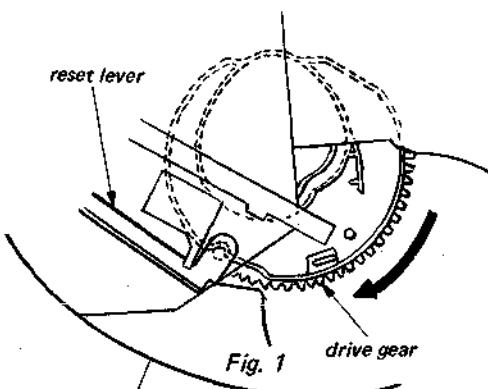
SECTION 3

ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

Brake Lever Position Adjustment

1. Rotate the drive gear in the direction of the arrow by hand, and set the reset lever to the reset position where the pin of the reset lever is set into the reset groove of the drive gear. See Fig. 1.
 2. Confirm that the portion **A** of the size lever lightly touches to rectangular hole of the chassis. See Fig. 2.
- At this time, adjust the adjustment screw so that the brake lever is slightly detached from the size lever. See Fig. 3.
3. Secure the adjustment screw with locking compound.



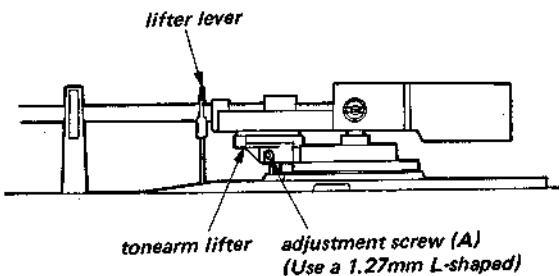
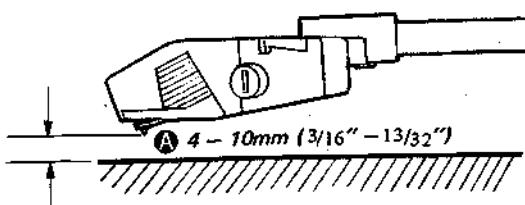
PS-LX410/LX410(C)

Stylus Height Adjustment

Note: Perform both adjustments for manual and automatic operations.

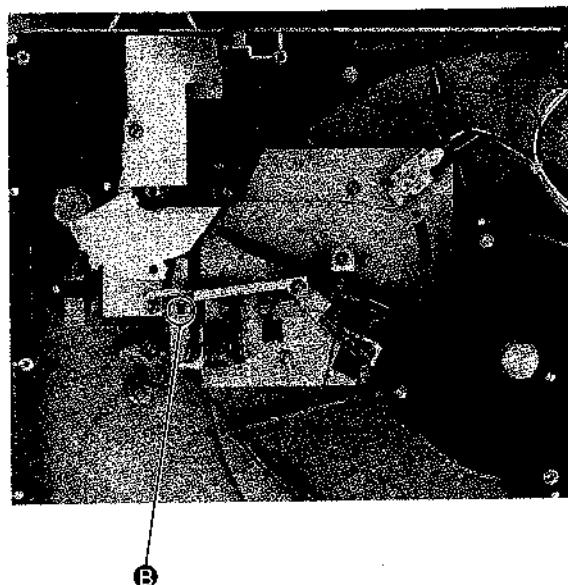
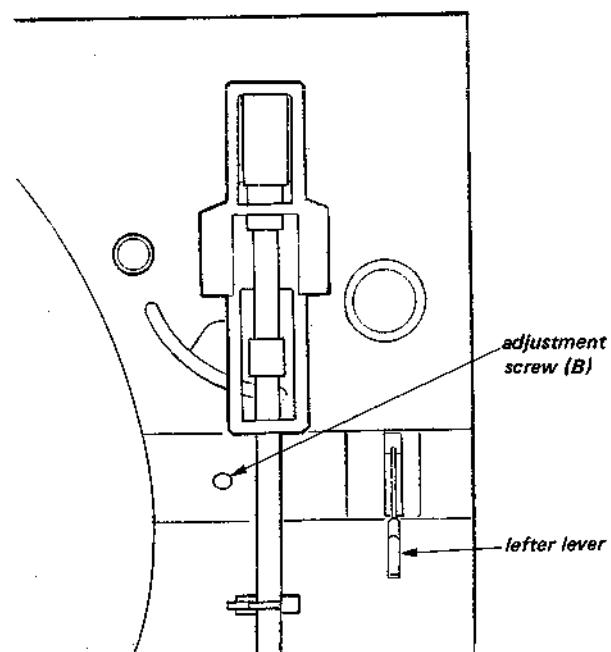
1. Automatic

- 1-a) Put a test record on the mat.
- 1-b) Depress the lifter lever to make a lifter-down mode (Σ).
- 1-c) Press the START/STOP button to start the operation.
- 1-d) Turn the POWER off just when the tonearm has moved to the automatic-return point and the tonearm lifter has started to lift the tonearm. Stop the turning of the turntable by hand.
- 1-e) Loosen the adjustment screw (A) and adjust the height of the tonearm lifter so that the stylus height A becomes in 4mm to 10mm (3/16" to 13/32").



2. Manual

- 2-a) Put a test record on the mat.
- 2-b) Depress the lifter lever to make a lifter-up mode (Σ).
- 2-c) Press the START/STOP button to start the operation.
- 2-d) Turn the POWER off just when the tonearm has come to the lead-in position and stopped moving.
- 2-e) Adjust the adjustment screw (B) so that the stylus height A becomes in 4mm to 8mm (3/16" to 13/32").
- 2-f) Secure the portion B with locking compound.



3-2. ELECTRICAL ADJUSTMENT

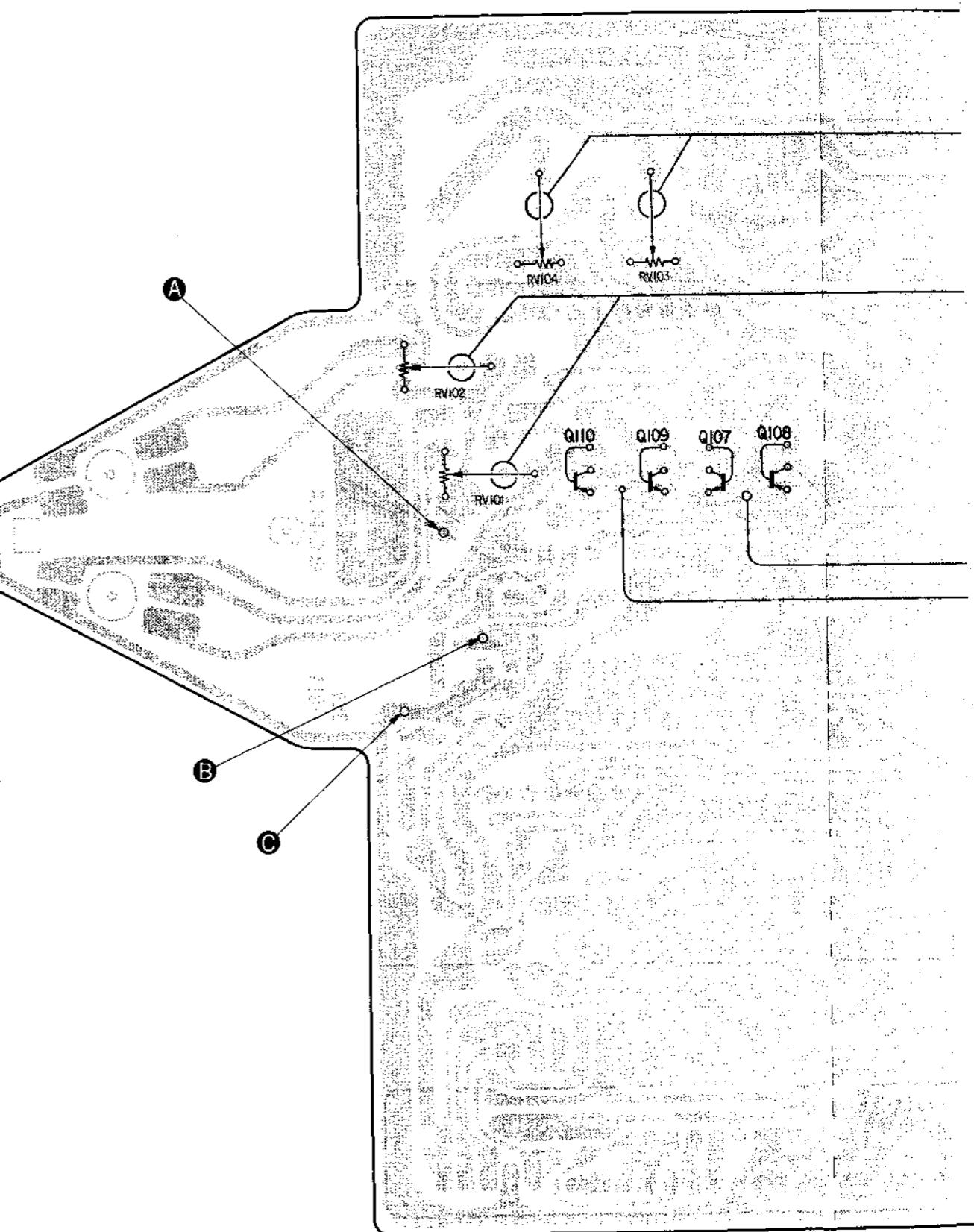
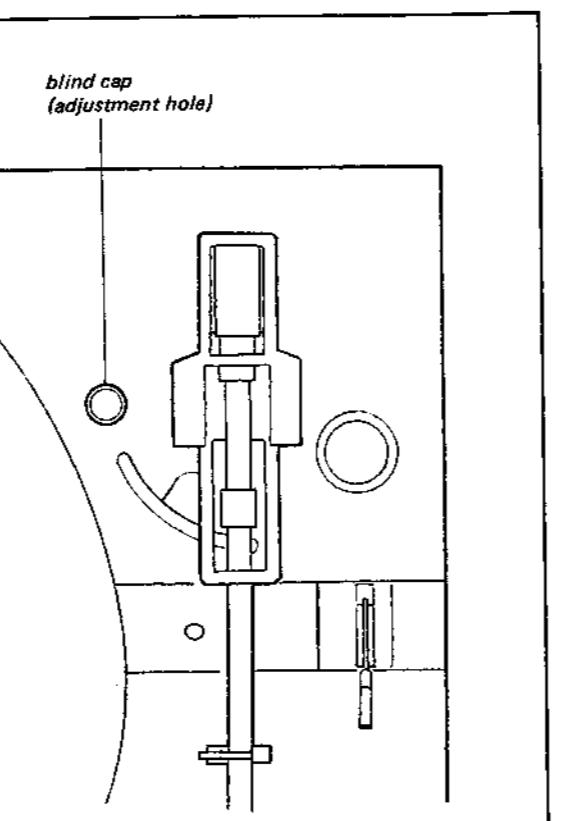
Stylus Drop-point Adjustment

1. Remove the blind cap.
2. Set the SPEED switch to 33.
3. Put a test record YFSC-16 on the mat.
4. Press the START/STOP button.
5. By using a hex-shaped ordinal pencil or a screw-driver, turn the adjustment screw so that the stylus tip drops on the record at the 4 – 16 count position.

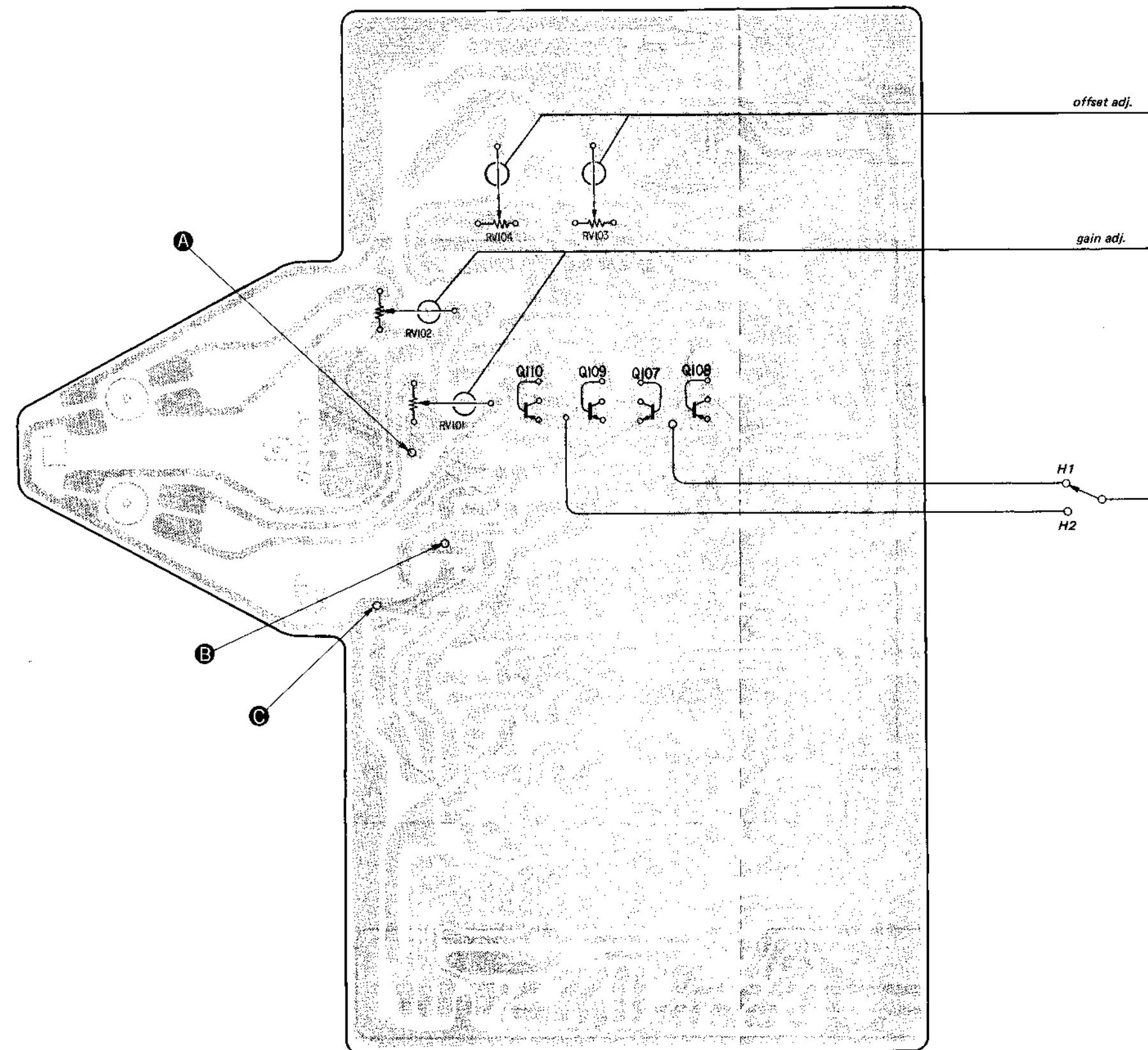
Adjustment screw rotation	Drop point
clockwise	to inside (higher counts)
counterclockwise	to outside (lower counts)

6. After the adjustment, confirm that the auto-return is started within 3 – 12 count on the test record.

Note: The proper adjustment for a 30cm record is also correct for a 17cm record.



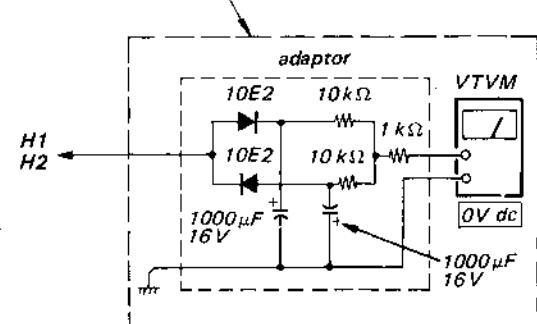
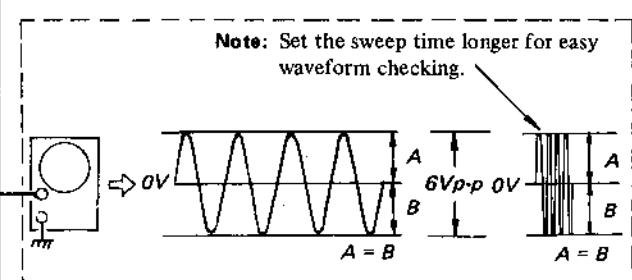
3-2. ELECTRICAL ADJUSTMENT



Gain/Offset Adjustments

1. Connect the pattern **B** to the pattern **C**, and apply a 2V dc to the pattern **A**.
2. POWER switch: ON
SPEED switch: 45
3. Adjust the gain adjustment RV101 at the switch position H1 for a 6Vp-p reading on the oscilloscope.
4. Adjust the gain adjustment RV102 at H2 for a 6Vp-p reading.
5. Adjust the offset adjustment RV103 at H1 for a 0V dc centering on the waveform.
6. Adjust the offset adjustment RV104 at H2 for a 0V dc centering.
7. After the adjustments, disconnect the pattern **B** from the pattern **C** and remove the dc-voltage connection from the pattern **A**.

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



DIAGRAMS
SECTION 4

4-1. MOUNTING DIAGRAM

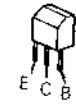
—Conductor Side—

● Semiconductor Lead Layouts

2SB740
2SC1364
2SC3070
2SC3112



2SD774
10E2
1SS119
H27A1L



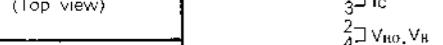
DTC144ES
DTC144WS



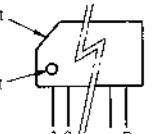
GL5EG22
GL5HD5



LM6417E-364
THS102A

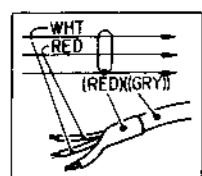


M5218L

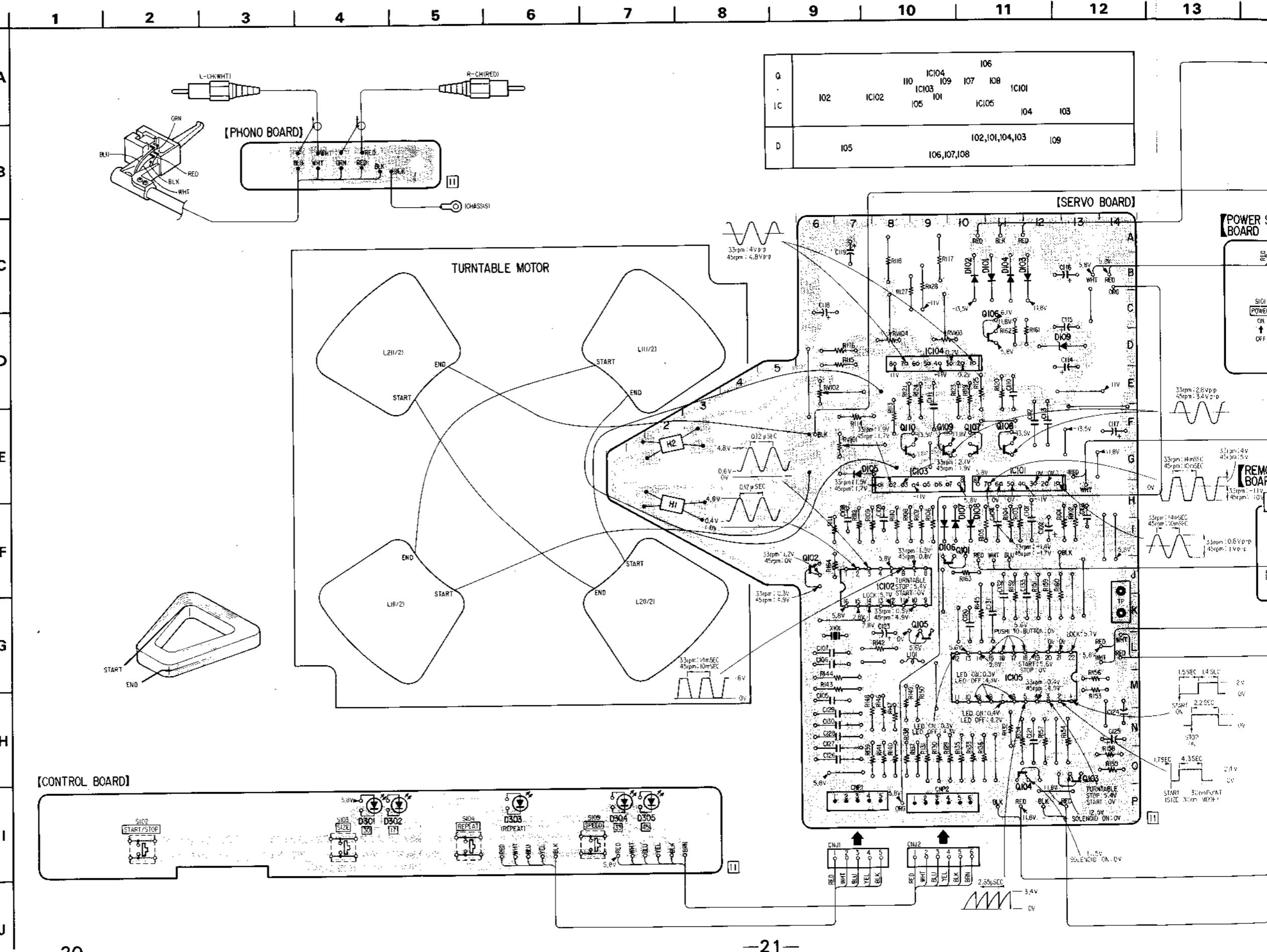


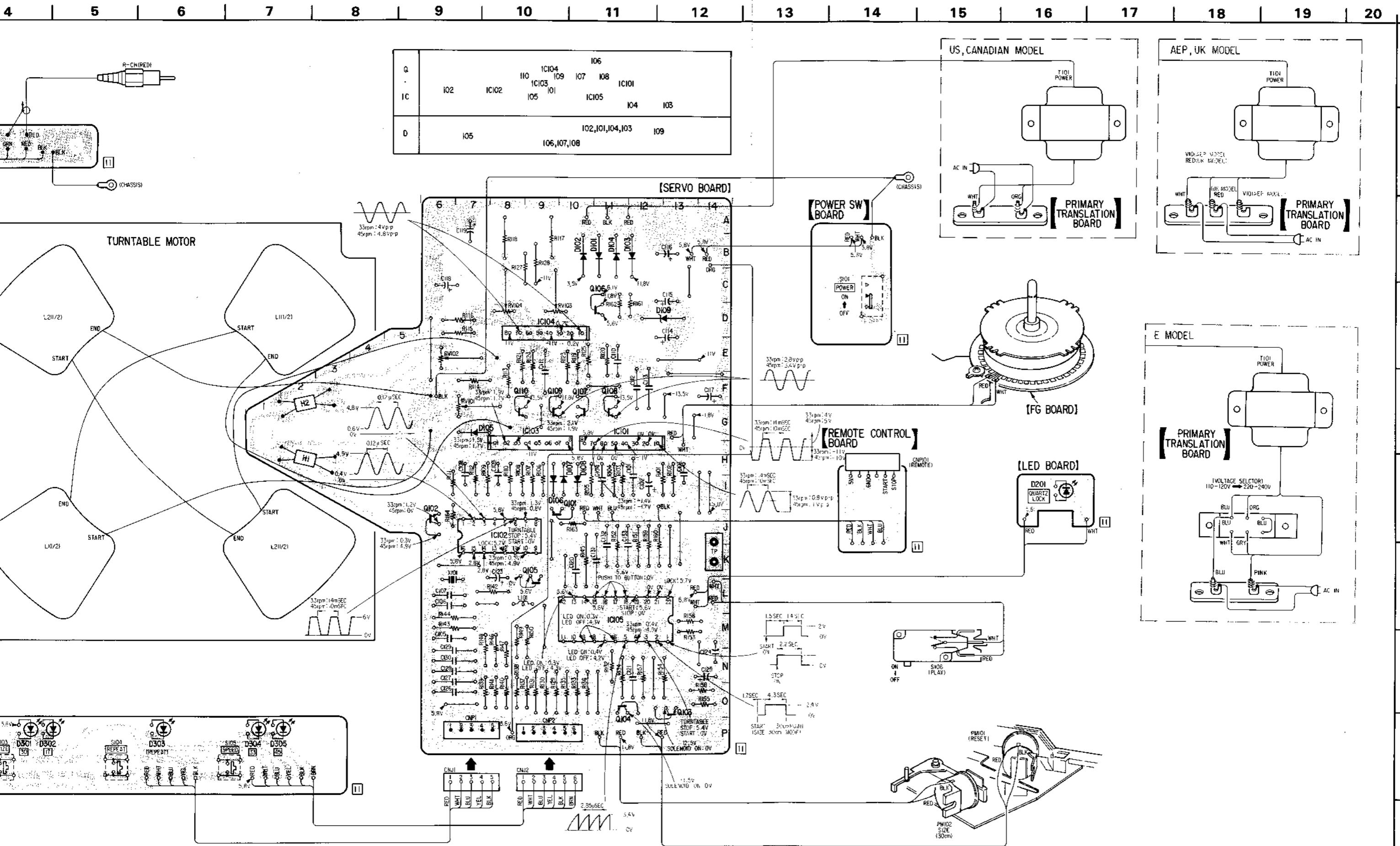
Note:

- Color code of sleeving over the end of the jacket.

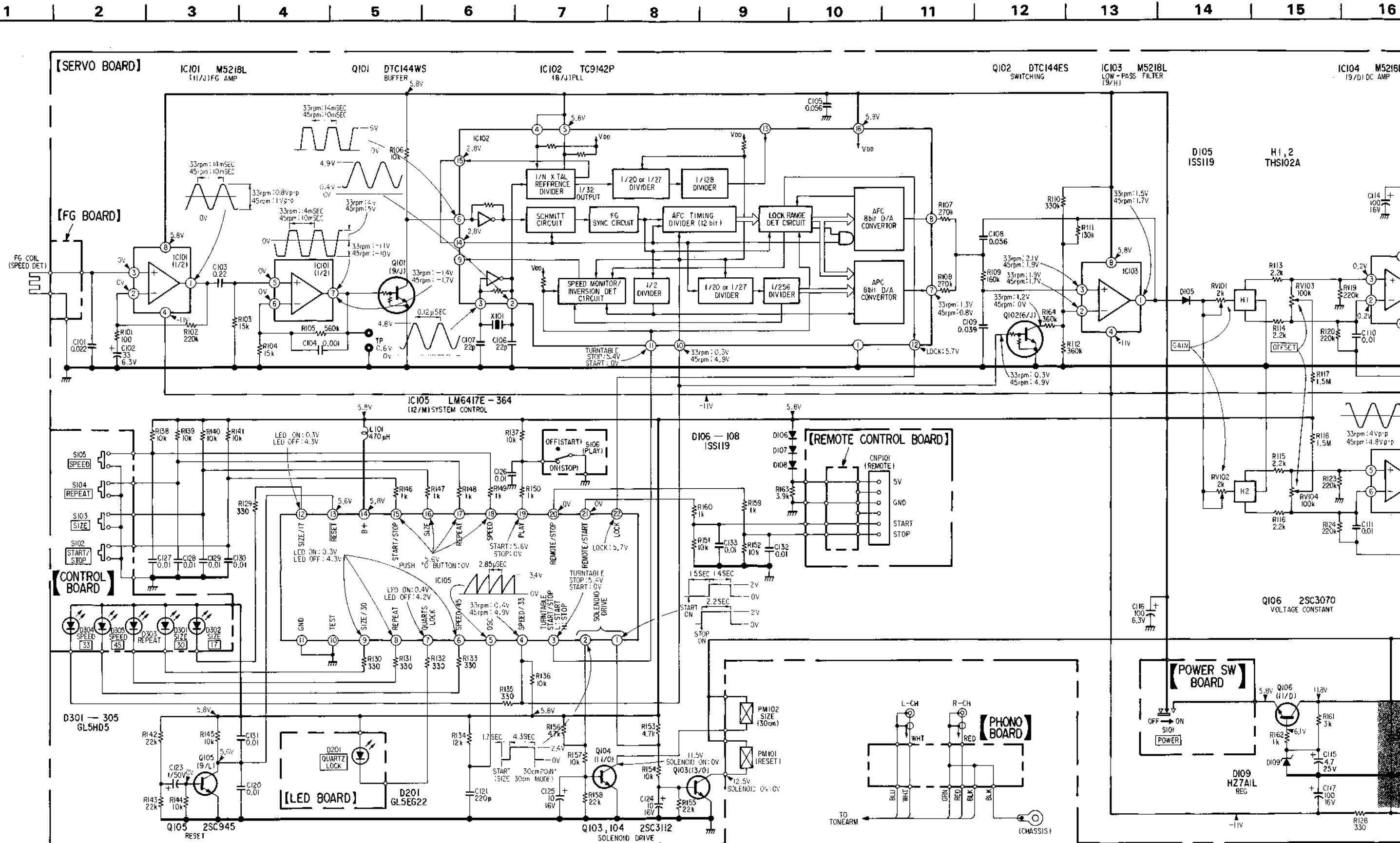


- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : B+ pattern



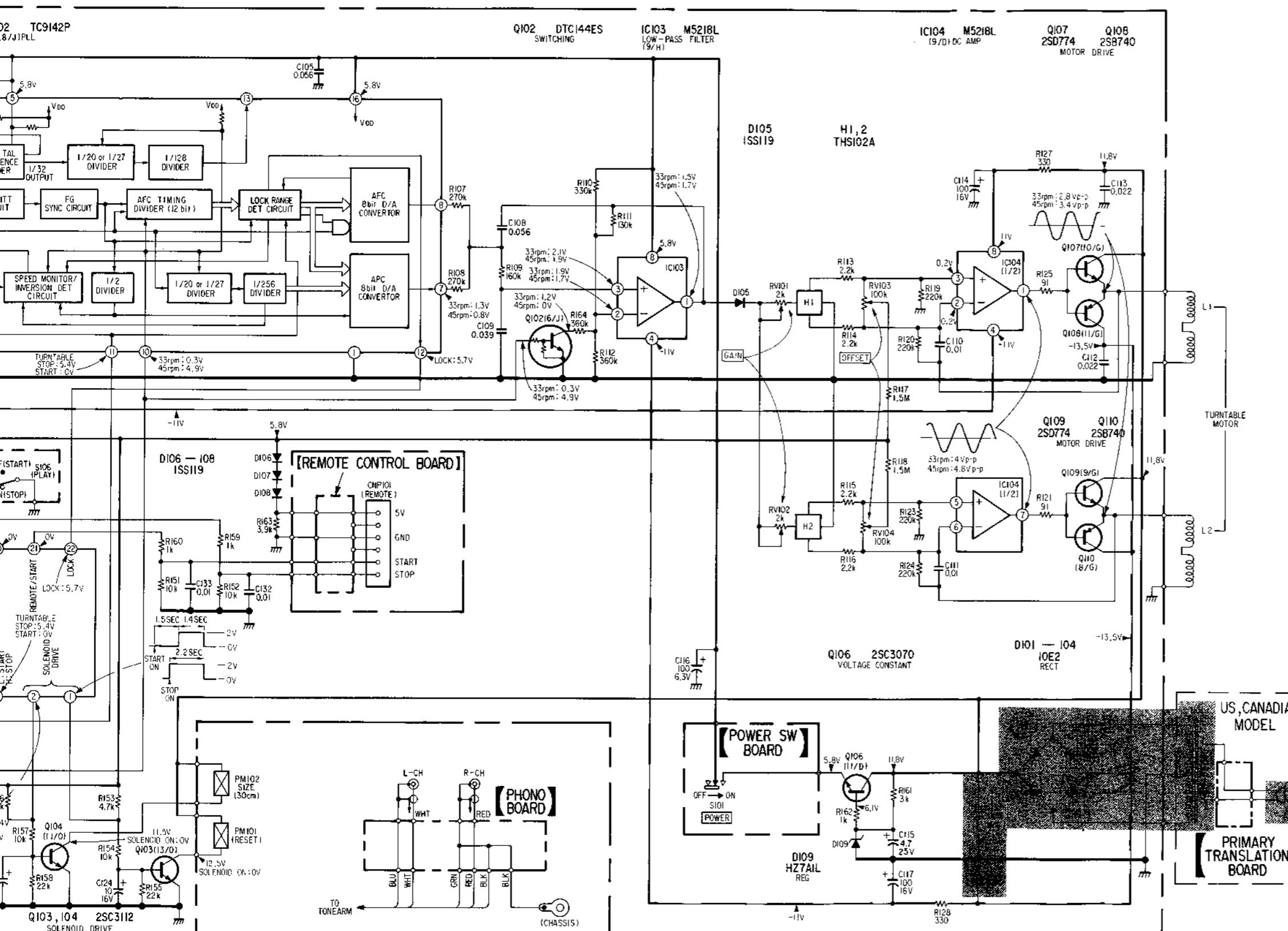


4-2. SCHEMATIC DIAGRAM



Note: Les comp
marque
remplacer
spécifié.

7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

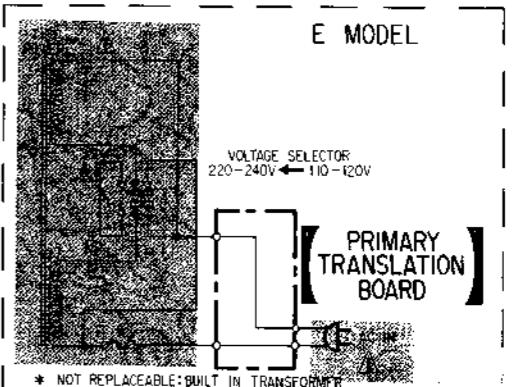
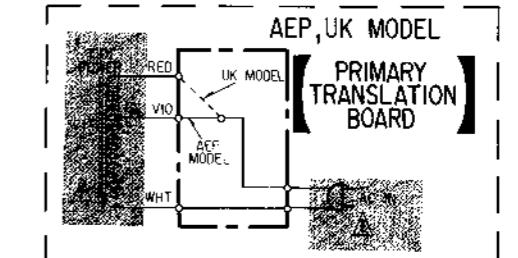
**Note:**

- All capacitors are in μF unless otherwise noted. pF : μpF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/8W unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000k Ω .
- : adjustment for repair.
- : B+ bus.
- - - : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM.
- Waveforms are taken with respect to ground with an oscilloscope.
- Switch

Ref. No.	Switch	Position
S101	POWER	OFF
S102	START/STOP	OFF
S103	SIZE	OFF
S104	REPEAT	OFF
S105	SPEED	OFF
S106	Play	OFF
	VOLTAGE SELECTOR (E model)	110 - 120V

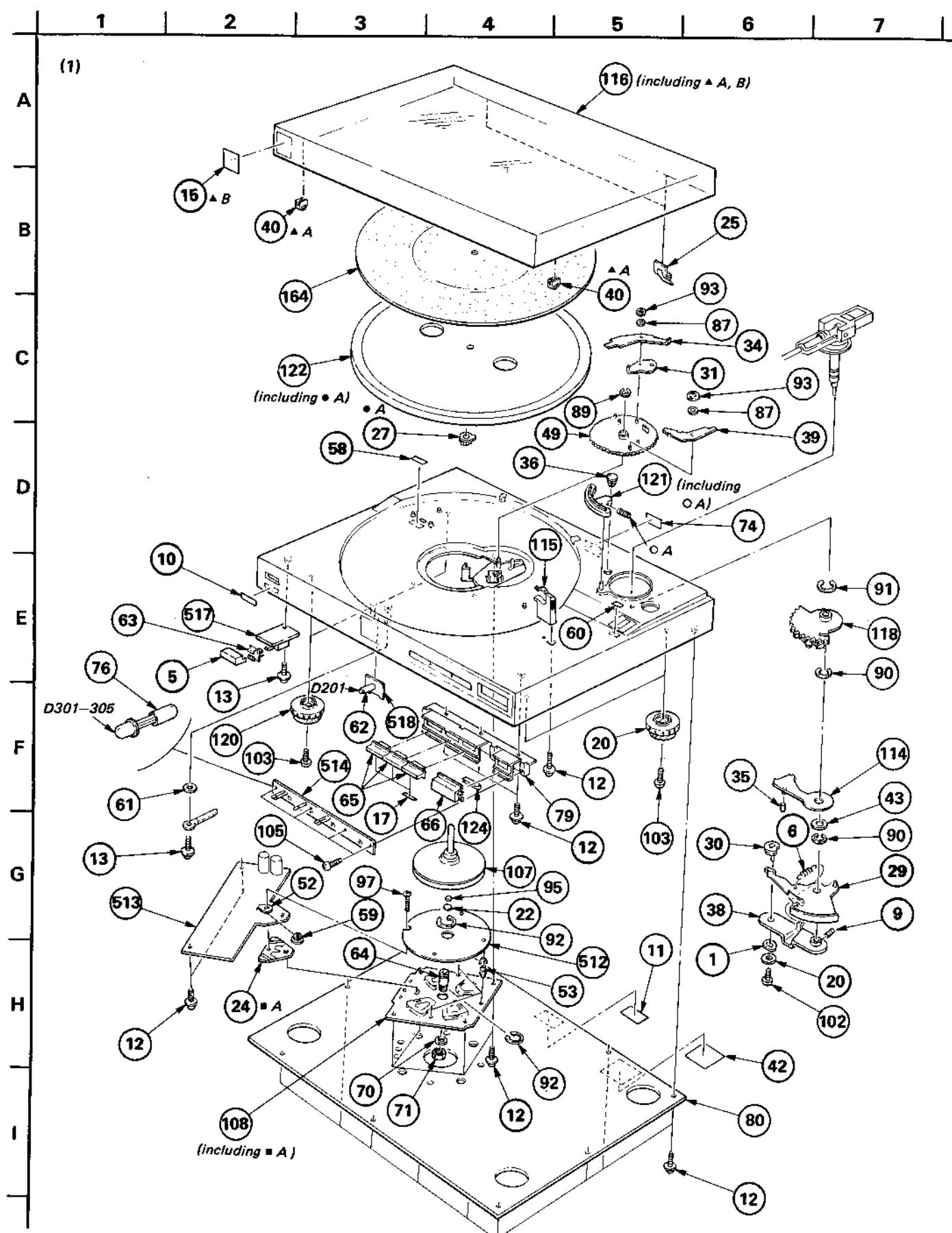
- Figures in parentheses behind Ref. No. of transistors and ICs locate these positions on the mounting diagram.

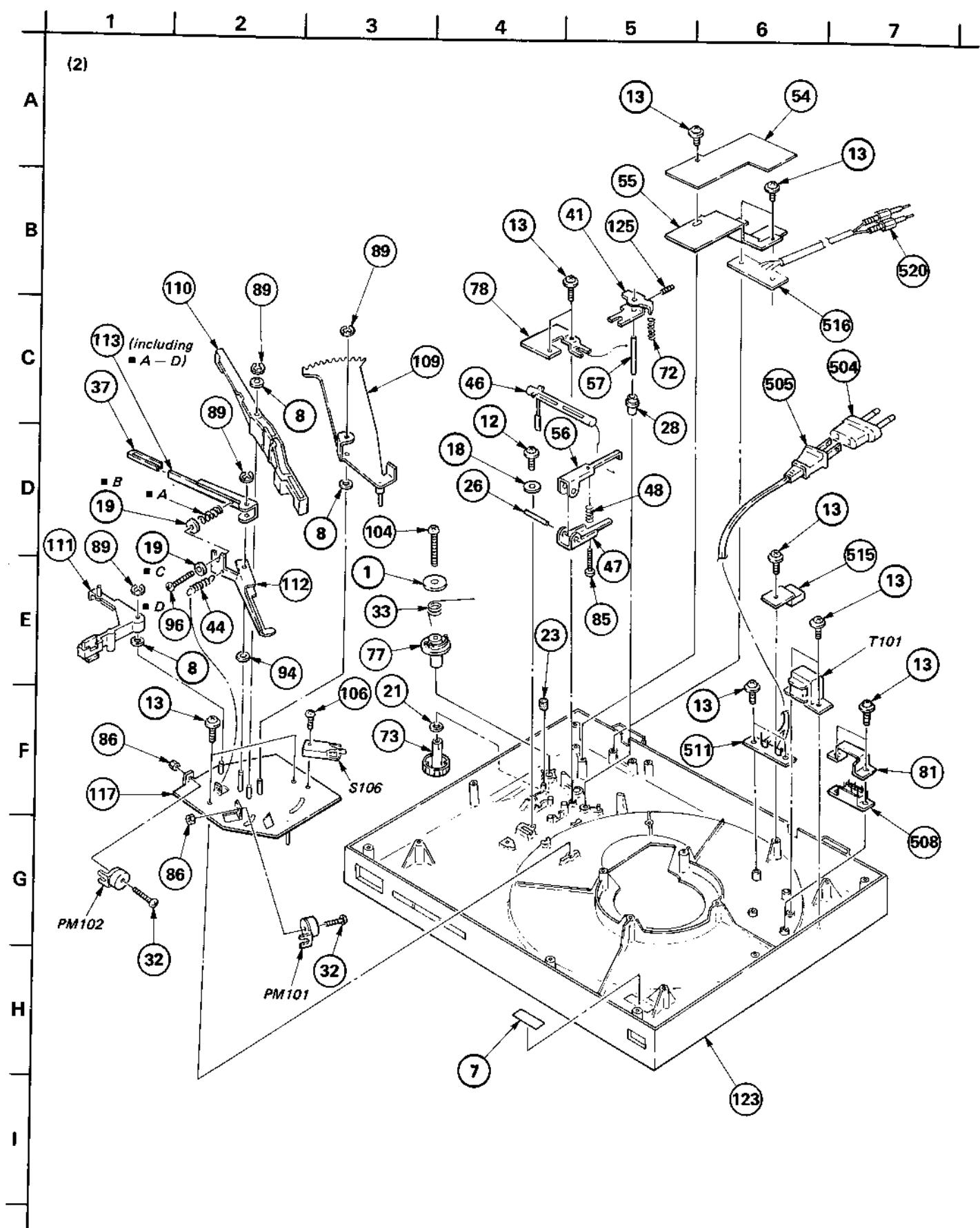
Note: Voltages are measured with a VOM (50k Ω /V).

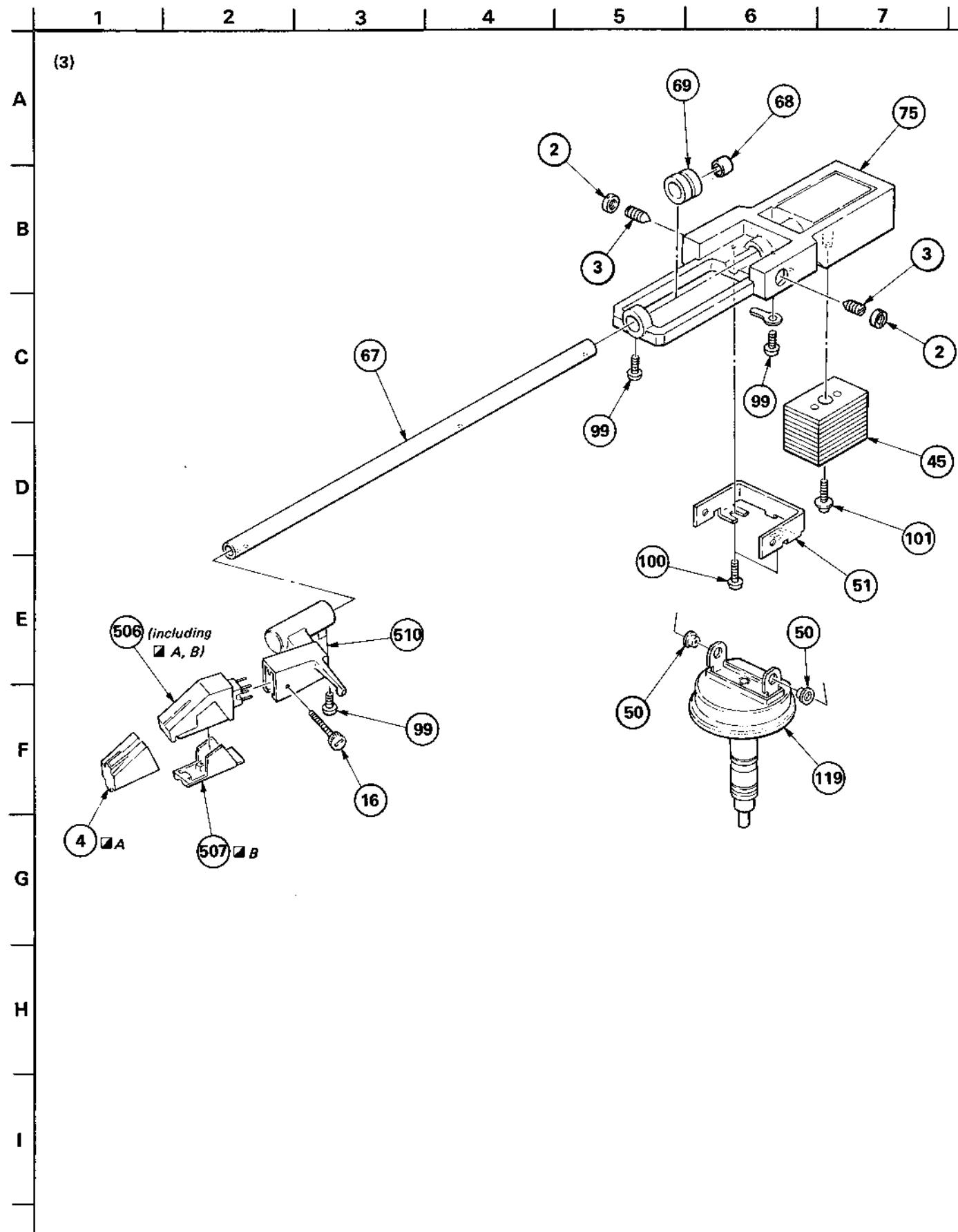


Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
EXPLODED VIEWS AND PARTS LIST







GENERAL SECTION

No.	Part No.	Description
1	0-056-028-00	WASHER, PLAIN, 14 DIA.
2	2-203-518-61	SCREW, PIVOT
3	2-203-519-00	NUT (A), LOCK, PIVOT
4	2-231-824-01	(AEP,UK,E)....COVER, STYLUS
4	4-903-347-01	(Canadian,PS-LX410(C))...COVER, STYLUS
5	3-318-911-01	(SILVER)...KNOB (POWER,L), T MOLD
5	3-318-911-11	(BLACK)...KNOB (POWER,L), MOLD
6	3-548-124-00	SPRING, TENSION
7	3-701-030-00	LABEL, SERIAL NUMBER
8	3-701-441-21	WASHER
9	3-701-509-00	SET SCREW, DOUBLE CUP 3X8
10	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)
11	3-703-043-21	(UK)....LABEL, CAUTION, MAIN
11	3-703-845-01	(US,canadian)...LABEL, CAUTION, MAIN
12	3-703-136-00	SCREW, PTPWH 3X12
13	3-703-137-00	SCREW, PTPWH 3X10
14	3-703-678-00	LABEL, CAUTION, NEW UL
15	3-703-705-01	STICKER, SONY SYMBOL (30)
16	3-706-937-01	SCREW, SET, CARTRIDGE
17	3-831-441-XX	SPACER (SRS)
18	4-301-647-00	WASHER, SPECIAL
19	4-812-554-00	WASHER
20	4-844-041-00	WASHER, (N)
21	4-844-041-11	WASHER, (N)
22	4-852-007-00	RETAINER (A), THRUST
23	4-852-841-00	TUBE
24	4-857-642-00	HOLDER, PC BOARD
25	4-857-653-00	HINGE, DUST COVER
26	4-861-940-00	SHAFT, LIFTER LEVER
27	4-868-052-00	GEAR, CENTER
28	4-874-218-00	CASE, PUSH ROD
29	4-874-223-00	LEVER (A), ARM
30	4-874-231-00	CAM, ECCENTRIC
31	4-874-232-00	CLUTCH (R)
32	4-874-234-00	CORE
33	4-874-250-00	SPRING
34	4-874-254-00	CLUTCH (S)
35	4-874-259-00	RUBBER, SHOCK ABSORBING
36	4-874-260-11	(BLACK)...CAP, BLIND
36	4-874-260-01	(SILVER)...CAP, BLIND
37	4-874-275-00	PAD, BRAKE
38	4-874-277-00	LEVER (B), ARM
39	4-874-279-00	CLUTCH (L)
40	4-876-304-00	CUSHION, DUST COVER

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CAPACITORS:

MF: μ F, PF: μ PF.

RESISTORS

All resistors are in ohms.

F : nonflammable

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...GENERAL SECTION

No.	Part No.	Description
41	4-876-317-00	GUIDE, LIFTER
42	4-876-344-00	(AEP)...LABEL, CAUTION, POWER CORD
43	4-876-324-21	POLY-SLIDER (DIA. 9.5)
44	4-903-424-01	SPRING, TENSION (RESET)
45	4-877-810-00	WEIGHT
46	4-877-824-00	CAM, LIFTER
47	4-880-501-00	LEVER (A), LIFTER
48	4-880-503-00	SPRING, COMPRESSION
49	4-880-524-00	GEAR (S), DRIVE
50	4-881-618-00	BEARING, PIVOT
51	4-881-628-00	REINFORCEMENT (A)
52	4-881-629-00	PLATE (A), GROUND
53	4-881-636-11	SUPPORT (TMD), PC
54	4-881-656-00	PLATE (UPPER), SHIELD
55	4-881-657-00	PLATE (LOWER), SHIELD
56	4-881-659-00	LEVER (C), LIFTER
57	4-881-688-00	ROD, PUSH
58	4-881-683-00	(E)...LABEL, VOLTAGE
59	4-885-727-00	SPACER
60	4-885-792-00	PLUG IN SEAL (A)
61	4-890-173-00	WASHER
62	4-901-657-00	SPACER (A), LED
63	4-902-831-01	JOINT (G), KNOB
64	4-903-304-01	BEARING
65	4-903-305-01	(SILVER)...KNOB (SRS), T MOLD
65	4-903-305-11	(BLACK)...KNOB (SRS), T MOLD
66	4-903-306-01	(SILVER)...KNOB (SR), T MOLD
66	4-903-306-11	(BLACK)...KNOB (SR), T MOLD
67	4-903-307-01	PIPE, ARM
68	4-903-308-01	SHEET (S)
69	4-903-312-01	WEIGHT, SUB
70	4-903-324-01	PACKING (TMD)
71	4-903-330-01	NUT (TMD), BEARING
72	4-903-331-01	SPRING (LIFTER), COMPRESSION
73	4-903-333-01	KNOB, IFC
74	4-903-401-01	(AEP).....LABEL, MODEL NUMBER
74	4-903-402-01	(US,Canadian)....LABEL, MODEL NUMBER
74	4-903-418-01	(UK).....LABEL, MODEL NUMBER
74	4-903-419-01	(E).....LABEL, MODEL NUMBER
75	4-903-336-01	JOINT, PIPE
76	4-903-408-01	SPACER, LED
77	4-903-409-01	CAM, IFC
78	4-903-410-01	RETAINER (C), LIFTER
79	4-903-412-01	HOLDER, SWITCH, CONTROL
80	4-903-416-01	BOARD, BOTTOM

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PS-LX410/LX410(C)

GENERAL SECTION

No.	Part No.	Description
81	♦;4-903-421-01	(E)...COVER, VOLTAGE SELECTION
82	7-621-712-17	SET-SCREW, SLOT 2.6X2 CUP POINT
83	7-621-738-08	SET-SCT, HEX. 2.6X4, FLAT POINT
84	7-621-770-67	SCREW +P 2.6X6
85	7-621-775-80	SCREW +B 2.6X16
86	7-622-207-05	N 2.6, TYPE 2
87	7-623-105-15	W 2,MIDDLE
88	7-623-505-01	LUG, 2
89	7-624-106-04	STOP RING 3.0, TYPE -E
90	7-624-133-44	STOP RING 9, TYPE-CE
91	7-624-133-54	STOP RING 10, TYPE-CE
92	7-624-133-94	STOP RING 15, TYPE-CE
93	7-624-190-81	STOP RING 2, TYPE-CS
94	3-701-441-11	WASHER
95	7-671-156-01	BALL, STENLESS
96	7-682-110-01	SCREW +P 3X18
97	7-682-149-13	SCREW +P 3X10
98	7-685-102-14	TOTSU PTPWH 2X4, TYPE 2, SLIT
99	7-685-103-24	SCREW +P 2X5 TYPE2 SLIT
100	7-685-105-24	SCREW +P 2X8 TYPE2 SLIT
101	7-685-134-14	SCREW, TOTSU PTPWH 2.6X8, TYPE2
102	7-685-145-14	SCREW +P 3X6 TYPE2 SLIT
103	7-685-150-14	SCREW +BVTP 3X16 TYPE2 SLIT
104	7-685-152-21	SCREW +P 3X25 TYPE2 SLIT
105	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
106	7-685-755-01	SCREW +PTT 3X14 (S)
107	A-4608-277-A	ROTOR ASSY
108	A-4608-278-A	STATOR ASSY
109	♦;X-4874-202-0	LEVER ASSY, MAIN
110	X-4874-203-0	LEVER ASSY, CLUTCH
111	♦;X-4874-204-0	LEVER ASSY, SIZE
112	♦;X-4874-205-0	LEVER ASSY, RESET
113	♦;X-4874-206-0	LEVER ASSY, BRAKE
114	♦;X-4874-209-0	LEVER (B) ASSY, INDEX
115	X-4874-212-1	(SILVER)...REST ASSY, ARM
115	X-4874-212-X	(BLACK)...REST ASSY, ARM
116	X-4877-804-0	COVER ASSY, DUST
117	♦;X-4881-608-0	CHASSIS ASSY
118	X-4881-610-0	LEVER (C) ASSY, INDEX
119	X-4881-611-0	JOINT ASSY, CENTER
120	X-4903-301-1	INSULATOR ASSY
121	X-4903-302-1	PLATE ASSY, UP AND DOWN
122	X-4903-303-1	TABLE ASSY, TURN
123	X-4903-401-1	FLAME ASSY
124	3-831-441-11	SPACER (T)
125	7-621-741-09	SEC-SCREW, HEX, 2.6X8

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CAPACITORS:

MF: μ F, PF: μ H.

RESISTORS

All resistors are in ohms.

F : nonflammable

COILS

MHH : mH, UH : uH

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 Δ are critical for safety. Replace only with part number specified.

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ELECTRICAL PARTSELECTRICAL PARTS

Ref.No.	Part No.	Description
501	▲;1-508-800-13	U TYPE BASE POST 3P
502	▲;1-508-801-00	U TYPE BASE POST 4P
503	▲;1-508-880-00	BASE POST, MCD CONNECTOR 6P
504	▲.1-526-565-00	(E)...AC PULG ADAPTOR
505	▲.1-534-817-XX	(AEP).....CORD, POWER, EULO-PLUG
505	▲.1-551-472-00	(E).....CORD, POWER
505	▲.1-551-628-00	(US,Canadian)....CORD, POWER
505	▲.1-551-884-00	(UK).....CORD, POWER
506	1-549-117-00	(PS-LX410(C))..CARTRIDGE(VL-45G)
506	A-4505-089-C	(AEP,UK,E).....CARTRIDGE (XL-250G)
507	1-549-118-11	(PS-LX410(C))...STYLUS ASSY, ND-145G
507	A-4587-071-C	(AEP,UK,E).....STYLUS ASSY, ND-250G
508	▲.1-552-535-00	SWITCH, VOLTAGE SELECTOR
509	▲;1-560-070-00	BASE POST
510	1-562-517-11	CONNECTOR (WITH HEAD SHELL) 4P
511	▲;1-608-536-00	PC BOARD, PRIMARY TRANSLATION
512	▲;1-608-883-00	PC BOARD, FG
513	▲;1-612-344-11	PC BOARD, SERVO
514	▲;1-612-345-11	PC BOARD, CONTROL
515	▲;1-612-346-11	PC BOARD, REMOTE CONTROL
516	▲;1-612-347-11	PC BOARD, PHONO
517	▲;1-612-348-11	PC BOARD, POWER SW
518	▲;1-612-349-11	PC BOARD, LED
519	▲;A-4619-237-A	MOUNTED PCB, AMPLIFIER, SERVO
C101	1-161-494-00	CERAMIC 0.022MF 30% 25V
C102	1-123-318-00	ELECT 33MF 20% 6.3V
C103	1-130-636-00	FILM 0.22MF 5% 50V
C104	1-162-110-00	CERAMIC 0.001MF 10% 50V
C105	1-108-361-51	MYLAR 0.056MF 30% 25V
C106	1-162-052-00	CERAMIC 22PF 5% 50V
C107	1-162-052-00	CERAMIC 22PF 5% 50V
C108	1-130-629-00	FILM 0.056MF 5% 50V
C109	1-130-627-00	FILM 0.039MF 5% 50V
C110	1-162-113-00	CERAMIC 0.01MF 30% 16V
C111	1-162-113-00	CERAMIC 0.01MF 30% 16V
C112	1-161-494-00	CERAMIC 0.022MF 30% 25V
C113	1-161-494-00	CERAMIC 0.022MF 30% 25V
C114	1-123-333-00	ELECT 100MF 20% 16V
C115	1-123-328-00	ELECT 4.7MF 20% 25V
C116	1-123-295-00	ELECT 100MF 20% 6.3V
C117	1-123-333-00	ELECT 100MF 20% 16V
C118	▲.1-123-324-00	ELECT 1000MF 20% 16V
C119	▲.1-123-324-00	ELECT 1000MF 20% 16V
C120	1-162-113-00	CERAMIC 0.01MF 30% 16V
C121	1-162-102-00	CERAMIC 220PF 10% 50V
C123	1-123-380-00	ELECT 1MF 20% 50V

Ref.No.	Part No.	Description
C124	1-123-356-00	ELECT 10MF 20% 16V
C125	1-123-356-00	ELECT 10MF 20% 16V
C126	1-162-113-00	CERAMIC 0.01MF 30% 16V
C127	1-162-113-00	CERAMIC 0.01MF 30% 16V
C128	1-162-113-00	CERAMIC 0.01MF 30% 16V
C129	1-162-113-00	CERAMIC 0.01MF 30% 16V
C130	1-162-113-00	CERAMIC 0.01MF 30% 16V
C131	1-162-113-00	CERAMIC 0.01MF 30% 16V
C132	1-162-113-00	CERAMIC 0.01MF 30% 16V
C133	1-162-113-00	CERAMIC 0.01MF 30% 16V
• CNP101;1-560-317-00		CONNECTOR PIN 6P, REMOTE
D101	▲.8-719-200-02	DIODE 10E-2
D102	▲.8-719-200-02	DIODE 10E-2
D103	▲.8-719-200-02	DIODE 10E-2
D104	▲.8-719-200-02	DIODE 10E-2
D105	8-719-911-19	DIODE ISS119
D106	8-719-911-19	DIODE ISS119
D107	8-719-911-19	DIODE ISS119
D108	8-719-911-19	DIODE ISS119
D109	8-719-910-71	DIODE HZ7A1L
D201	8-719-907-36	DIODE GL-5EG22
D301	8-719-904-55	DIODE GL-5HD5
D302	8-719-904-55	DIODE GL-5HD5
D303	8-719-904-55	DIODE GL-5HD5
D304	8-719-904-55	DIODE GL-5HD5
D305	8-719-904-55	DIODE GL-5HD5
H1	8-719-800-17	THS102A
H2	8-719-800-17	THS102A
IC101	8-759-600-02	IC M5218L
IC102	8-759-201-58	IC TC9142P
IC103	8-759-600-02	IC M5218L
IC104	8-759-600-02	IC M5218L
IC105	8-759-800-94	IC LM6417E-364
L101	1-408-894-00	MICRO INDUCTOR 470UH
PM101	1-454-196-51	SOLENOID (RESET)
PM102	1-454-196-51	SOLENOID (BRAKE)
Q101	8-729-900-85	TRANSISTOR DTC144WS
Q102	8-729-900-89	TRANSISTOR DTC144ES
Q103	8-729-201-83	TRANSISTOR 2SC3112
Q104	8-729-201-83	TRANSISTOR 2SC3112
Q105	8-729-663-47	TRANSISTOR 2SC1364
Q106	8-729-800-34	TRANSISTOR 2SC3070

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MF:μF, PF:μμF.

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• All resistors are in ohms.

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• MH : mH, UH : μH

SEMICONDUCTORS

In each case, U : u, for example:
UA...: uA..., UPA...: uPA..., UPC...: uPC,

UPD...: uPD...

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ELECTRICAL PARTS

Ref. No.	Part No.	Description				
Q107	8-729-177-43	TRANSISTOR 2SD774				
Q108	8-729-374-02	TRANSISTOR 2SB740				
Q109	8-729-177-43	TRANSISTOR 2SD774				
Q110	8-729-374-02	TRANSISTOR 2SB740				
R101	1-247-807-00	CARBON	100	5%	1/6W	
R102	1-247-887-00	CARBON	220K	5%	1/6W	
R103	1-247-859-00	CARBON	15K	5%	1/6W	
R104	1-247-859-00	CARBON	15K	5%	1/6W	
R105	1-247-897-00	CARBON	560K	5%	1/6W	
R106	1-247-855-00	CARBON	10K	5%	1/6W	
R107	1-247-889-00	CARBON	270K	5%	1/6W	
R108	1-247-889-00	CARBON	270K	5%	1/6W	
R109	1-247-884-00	CARBON	160K	5%	1/6W	
R110	1-247-891-00	CARBON	330K	5%	1/6W	
R111	1-247-882-00	CARBON	130K	5%	1/6W	
R112	1-247-892-00	CARBON	360K	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	
R116	1-247-839-00	CARBON	2.2K	5%	1/6W	
R117	1-202-459-00	SOLID	1.5M	5%	1/4W	
R118	1-202-459-00	SOLID	1.5M	5%	1/4W	
R119	1-247-887-00	CARBON	220K	5%	1/6W	
R120	1-247-887-00	CARBON	220K	5%	1/6W	
R121	1-247-806-00	CARBON	91	5%	1/6W	
R123	1-247-887-00	CARBON	220K	5%	1/6W	
R124	1-247-887-00	CARBON	220K	5%	1/6W	
R125	1-247-806-00	CARBON	91	5%	1/6W	
R127	1-247-819-00	CARBON	330	5%	1/6W	
R128	1-247-819-00	CARBON	330	5%	1/6W	
R129	1-247-823-00	CARBON	470	5%	1/6W	
R130	1-247-823-00	CARBON	470	5%	1/6W	
R131	1-247-823-00	CARBON	470	5%	1/6W	
R132	1-247-819-00	CARBON	330	5%	1/6W	
R133	1-247-823-00	CARBON	470	5%	1/6W	
R134	1-247-857-00	CARBON	12K	5%	1/6W	
R135	1-247-823-00	CARBON	470	5%	1/6W	
R136	1-247-855-00	CARBON	10K	5%	1/6W	
R137	1-247-855-00	CARBON	10K	5%	1/6W	
R138	1-247-855-00	CARBON	10K	5%	1/6W	
R139	1-247-855-00	CARBON	10K	5%	1/6W	
R140	1-247-855-00	CARBON	10K	5%	1/6W	
R141	1-247-855-00	CARBON	10K	5%	1/6W	
R142	1-247-863-00	CARBON	22K	5%	1/6W	
R143	1-247-863-00	CARBON	22K	5%	1/6W	
R144	1-247-855-00	CARBON	10K	5%	1/6W	

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