

Canadian Model US Model AEP Model UK Model E Model

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STEREO TURNTABLE SYSTEM

SPECIFICATIONS

GENERAL

TURNTABLE

Power Requirements:

120, 220 V ac (E, AEP model serial No. 511501 and later)

110, 120, 220, 240 V ac adjustable, 50/60 Hz (AEP model up to serial

No. 511500)

240 V ac, 50 Hz (UK model) 120 V ac, 60 Hz (US, Canadian model)

Power Consumption: 8W (AEP, UK, E model)

6W (US, Canadian model)

Approx. 445 (w) x 140 (h) x 375 (d) mm Dimensions:

17½ (w) × 5½ (h) × 14¾ (d) inches

including projecting parts and controls

Approx. 5 kg, 11 lb (net)

6 kg, 13 lb 4 oz (with shipping carton)

Weight:

Platter: 31.3 cm, 123/8 inches, aluminum-alloy

diecast

DC servo-controlled motor (brushless and Motor:

slotless)

Drive System: Direct drive

> 33 1/3, 45 rpm Speeds:

SAFETY-RELATED COMPONENT WARNING!

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

Pitch Control Range:

0.04 % (WRMS) Wow and Flutter:

±0.065% (DIN)

S/N Ratio: 68 dB (DIN-B)

Automatic System: Arm return, reject

TONEARM

Type: Statically balanced, universal

216.5 mm, 8 1/2 inches Pivot-to-Stylus Length:

Overall Arm Length: 300 mm, 11 1/8 inches

16.5 mm, 21/32 inches Overhang:

Tracking Error: +3°, -1°

Tracking-Force 0 - 3 a

Adjustment Range:

Shell Weight: 7.5 g

Cartridge Weight Range: 4-10g

> ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ !

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE A SUR LES DIAGRAMMES SCHÉ-MATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMEROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY.





SECTION 1 OUTLINE

General Description

Motor Servo System is explained in Block Diagram Fig. 1-1.

Apply the voltage Vi to the motor coil to rotate at a given speed ω , soon the motor reaches the speed ω .

Supposedly, any changes occur in the rotational speed, a detector reads the amount of the error and the feedback circuit produces the voltage Vf required to correct the speed, returning Vf to the input.

Servo System works to keep the speed constant by adding or subtracting a fraction Vf of the output to the input Vi.

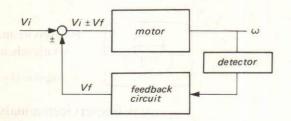


Fig. 1-1

The servo motor employs the frequency generator (FG) as a detector and the feedback circuit as shown in Fig. 1-2.

The signal voltage generated in FG is fed to the limiter amplifier to eliminate the voltage fluctuation, and in the next stage of the frequency discriminator the variation of the frequency is converted into the voltage proportioned to the rotational speed.

This voltage is rectified, amplified by DC amplifiter and supplied to the motor.

The reference standard frequencies detected by the multi-gap head (MGH) are 284 Hz at 33 rpm and 384 Hz at 45 rpm.

Circuit Description (See Fig. 1-5)

Limiter IC1-1

When the turntable rotates, the speed detecting head (MGH) generates the voltage. Its waveform is sinusoidal.

The voltage is applied to IC1-1 and the voltage fluctuation is eliminated. C1 serves as an interference eliminator.

01

Q1 amplifies the output signal from IC1-1 and converts it into a square wave by clipping.

Differential Circuit C2, R4

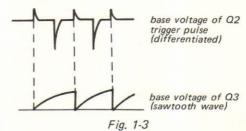
The differentiation of the square wave produces trigger pulses in the C2, R4 differential circuit.

This pulse triggers the sawtooth wave generator O2.

Sawtooth Wave Generator Circuit Q2, C3

While Q2 is turned off, C3 is charged through R5. When the positive trigger pulse is applied to the base of Q2, Q2 turns on and then C3 discharges instantly through Q2.

After discharging, C3 is recharged, resulting in the Q3 base forming a sawtooth wave signal.



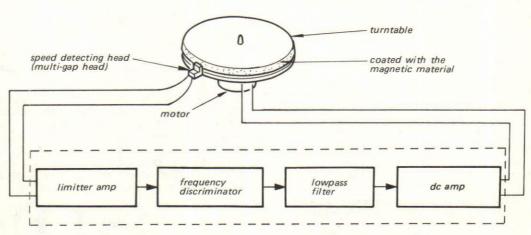


Fig. 1-2



Comparator Q3, Q4

The sawtooth wave signal is applied to the comparator circuit formed by Q3 and Q4.

Since the base of Q4 is biased by the bleeder resistor RV2, R9, RV1 (RV3, R10, RV1) and R8, the emitter voltage of Q4 and Q3 are held to the reference voltage.

Q3 will turn on when its base voltage (sawtooth wave) exceeds the total voltage (emitter voltage plus $V_{\rm BE}$).

Then, a negative pulse will appear on the collector of Q3. Consequently, if the rotational speed slows down, the frequency of the sawtooth wave will be low.

Therefore, the output negative pulse width widens, because the period of the time, Q3 turns on, becomes short.

Phase Converter Q5

Q5 serves as a phase converter which feeds the positive pulse signal on to the next stage.

Integrator (Lowpass Filter)

The lowpass filter (being composed of R12, R13, R14, C4, C5 and C6) serves as an integrator which converts the pulse signal into dc voltage in proportion to the pulse width.

IC1-2

IC1-2 is also the lowpass filter and amplifies dc voltage.

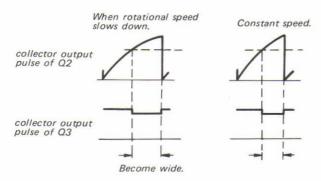
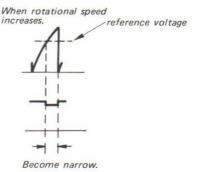


Fig. 1-4



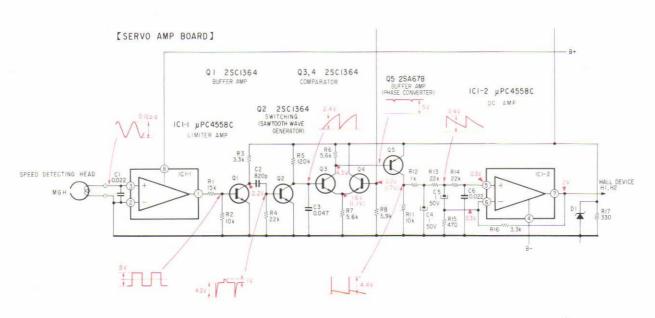


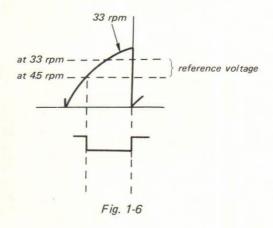
Fig. 1-5

SPEED Control

- The selection of the speed 33/45 rpm can be done by turning the switch S2 which selects the value of the bleeder resistor biased to the Q4 base.
- Since the base voltage of Q4 at 33 rpm is adjusted higher than the one at 45 rpm, the emitter voltage of Q4 at 33 rpm is higher than the one at 45 rpm.
- Now, let turn the switch S2 to the speed 45 rpm when rotating at 33 rpm, the pulse width on the collector of Q3 becomes wide as illustrated in Fig. 1-6.

Therefore, DC voltage obtained through the lowpass filter goes up and the motor builds up a speed.

Finally, the motor reaches the speed of 45 rpm and keeps the constant speed at 45 rpm.



Servo System

Any changes in the rotational speed of the motor can be corrected in the servo circuit and the motor speed is kept constant.

The servo system works as follows.

- When the speed of the motor slows down, the frequency of the signal generated by the speed detecting head (multi-gap head) becomes low and the pulse width obtained from the comparator becomes wide.
- Consequently, dc voltage through the lowpass filter increases, the motor speeds up and reaches the given speed.

Hall Motor

The BSL (brushless and slotless) dc servo motor, comprising two pairs of the coreless coil (stator), a sine wave magnetised ring (rotor) and hall elements, has the following major advantages.

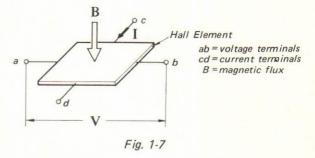
- a. Less fluctuation of the torque.
- Very low noise due to the brushless, and its current flow is controlled by the electronic switching.
- Stable performance and very long operational life.

1. Hall Element

The magnetic field strength is converted into electrical signals by employing the Hall Effect.

Hall Effect: When a metal strip is placed with its plane perpendicular to a magnetic field and an electric current flows longitudinally through the strip, a potential difference is developed across the strip at right angles to the current flow and to the magnetic field.

The potential is proportional to amounts of the current and a strength of the magnetic field.



When the N pole approaches.

When the S pole approaches.

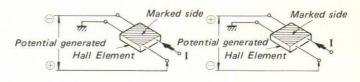


Fig. 1-8



2. Exploded View

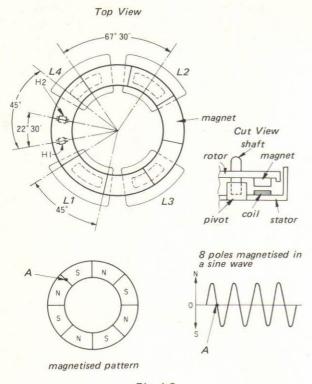


Fig. 1-9

- a. The motor coils L1 and L2 (L3 and L4) are one pair and connected in series.
- b. In order to change the phase of two signals by 90°, Hall elements H1 and H2 are positioned 22°30' apart.
- c. In order to change the phase of two signals fed to L1 and L3 (L2 and L4) by 90°, coils are positioned at 67°30' apart.
- d. The center angle of the coil is 45° so that the coil can face the magnets of which 8 poles are positioned every 45° apart.
- e. The angle between the Hall element and the coil is 45° so that the flux peak of the coil comes to the flux peak of the magnet.

3. Generation of Rotational Force

By the Fleming's left-hand rule, the direction of the coil motion is counterclockwise, but the coils are fixed so that the magnet (rotor) rotates clockwise.

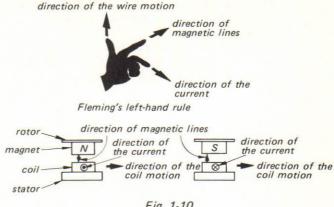


Fig. 1-10

When the Hall element H2 faces the N pole of the magnet, H2 generates voltage. The voltage is amplified by IC2-2 and fed to Q8, which also amplifies and supplies the current in L3 and L4. The coils (L3 and L4) produce the magnetic field that creates the rotational force of the

When the Hall element H1 faces the N pole, the current flows in L1 and L2, and the rotor rotates in the direction shown by the arrow.

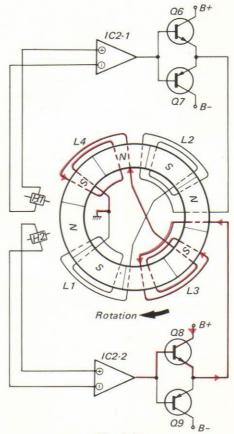


Fig. 1-11

Likewise, when the Hall element H2 faces the S pole, the current flows in L3 and L4. The rotor rotates in the direction shown by the arrow.

When the Hall element H1 faces the S pole, the current flows in L1 and L2, and the rotor is also forced to rotate in the same direction.

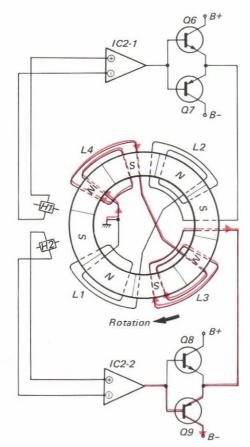


Fig. 1-12

4. Torque

A motor torque is proportional to an intensity of magnetic flux (B) and amounts of current which flows in coils.

Therefore, F = B I

When the rotor which is magnetised in a sine wave pattern rotates, the Hall elements detect the variation of the magnetic flux $(B_1 = B_0 \sin \omega t)$.

This controlled current $(I_1 = I_0 \sin \omega t)$ is supplied to the one coil.

On other hand, the current, which leads the angle by 90°, is supplied to the other coil.

Thus, $B_2 = B_0 \sin(\omega t + 90^\circ) = B_0 \cos \omega t$.

 $I_2 = I_0 \sin (\omega t + 90^\circ) = I_0 \cos \omega t.$

And, when both torques $(F_1 = B_1I_1, F_2 = B_2I_2)$ are produced simultaneously, their combined torque is constant as shown by the formula.

$$F = F_1 + F_2$$

$$= B_1 I_1 + B_2 I_2$$

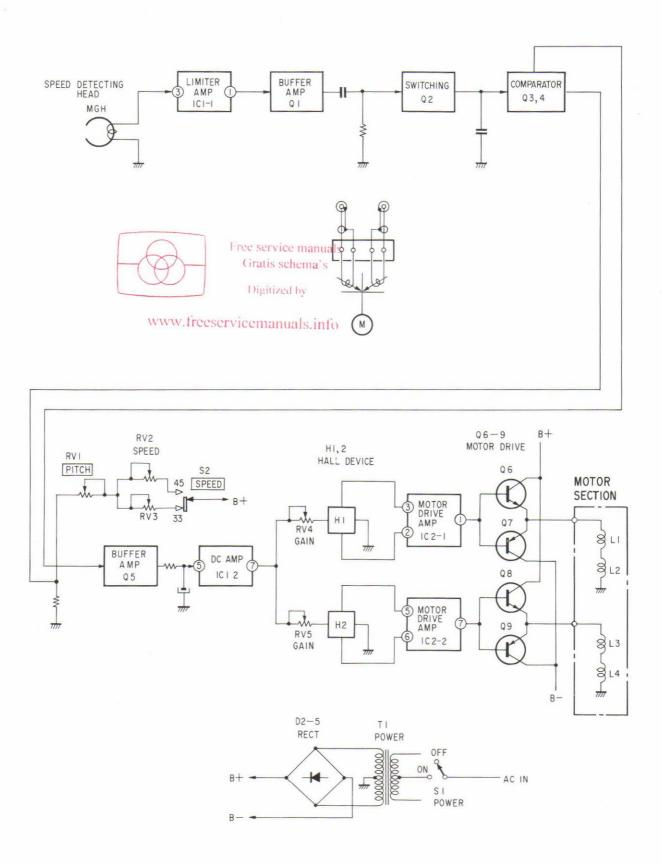
$$= B_0 I_0 \sin^2 \omega t + B_0 I_0 \cos^2 \omega t$$

$$= B_0 I_0 (\sin^2 \omega t + \cos^2 \omega t)$$

$$= B_0 I_0 \text{ constant}$$

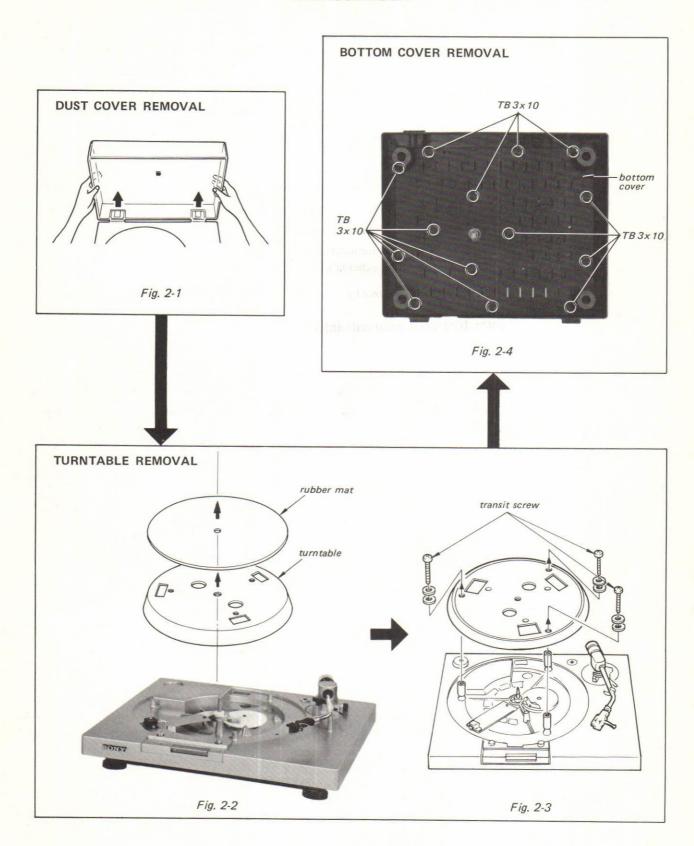


BLOCK DIAGRAM





SECTION 2 DISASSEMBLY





 Follow the disassembly procedure in the numerical order given.

SERVO AMP BOARD AND MOTOR SECTION REMOVAL

- 1. Remove four screws and straighten the hooks as shown 1 and 2 in Fig. 2-5.
- 2. Confirm that the positions of the center gear and the drive gear are the same as shown in Fig. 2-6. Then, remove the servo amp board and the motor section downward. (Enclosed by the broken line in Fig. 2-5.)

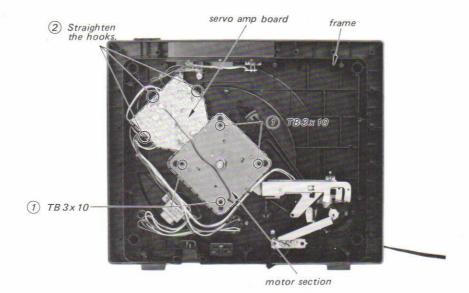


Fig. 2-5

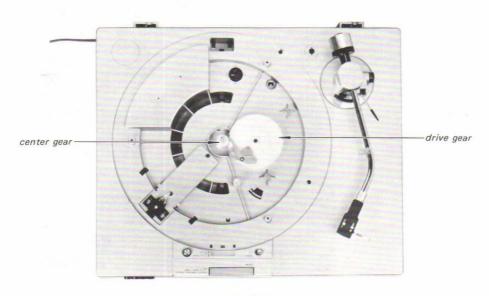
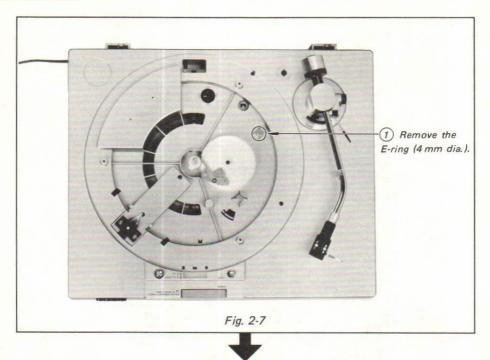
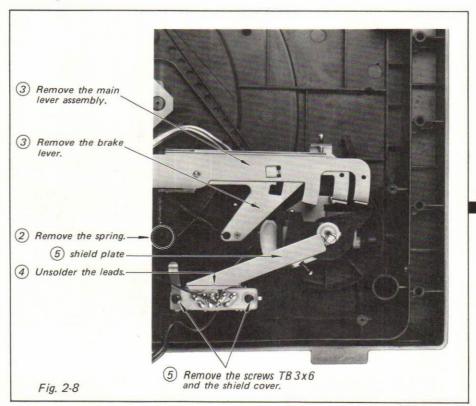


Fig. 2-6

TONEARM REMOVAL

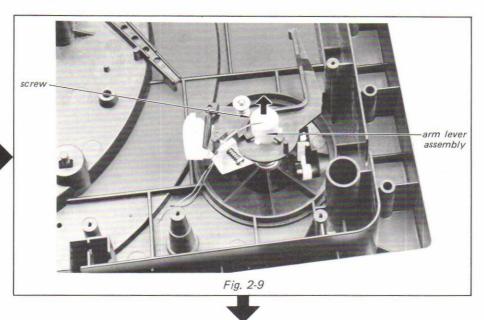


Turn the set upside-down and proceed ②, ③, ④ and ⑤ as shown in Fig. 2-8.

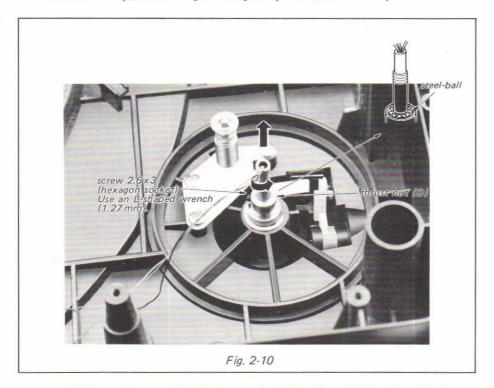




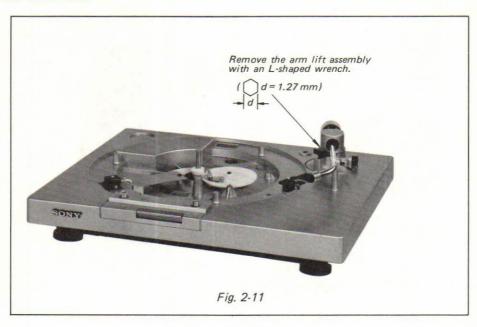
Loosen the screw and pull up the arm lever assembly from the tonearm shaft.



- 1. Loosen the screw.
- 2. Hold the tonearm firmly by hand and pull up the thrust nut (D) by turning it counterclockwise.
- 3. Remove the steel-balls from the arm pivot.
- 4. Turn the set upside-down again and pull up the tonearm slowly.



ARM LIFTER REMOVAL



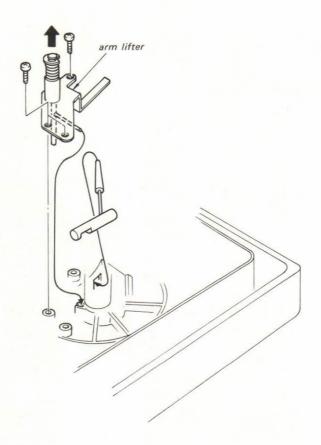
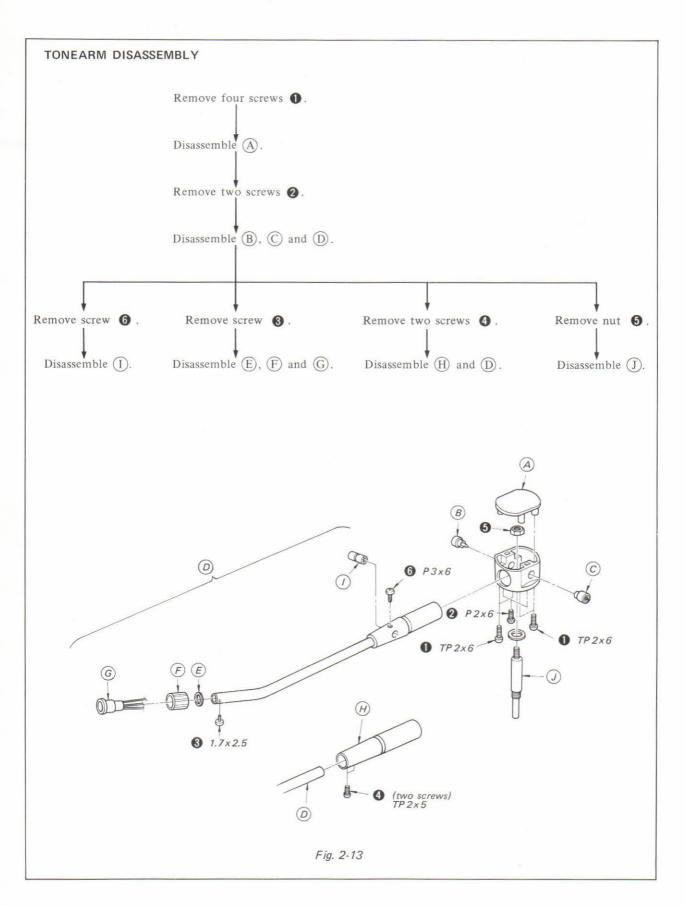


Fig. 2-12

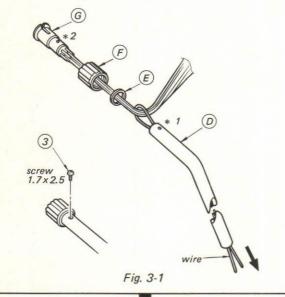


SECTION 3 ASSEMBLY

3-1. TONEARM ASSEMBLY

1. Pipe Assembly (1)

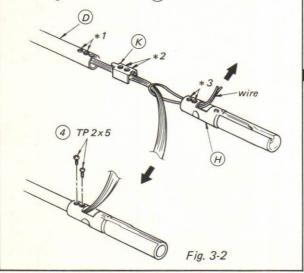
- 1. Thread a wire in (D).
- 2. Thread the leads of G in F and E, and hook the leads by the wire.
- 3. Insert G in D by pulling the wire in the direction shown by the arrow, adjust two holes marked *1, *2 and tighten the screw 3.





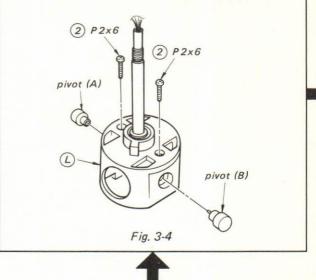
2. Pipe Assembly (2)

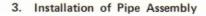
- 1. Thread a wire in (H) as shown below.
- 2. Hook four leads of (K) and (G) together by the wire and pull the leads into (H).
- 3. Adjust three holes marked *1, *2, *3 to tighten the screws (4).



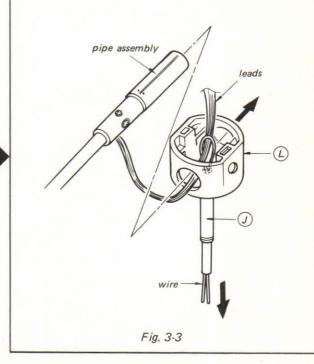
4. Setting of Pivot (A) and Pivot (B)

Push the pivot (A) and the pivot (B) into the holes of (L) strongly and tighten the screws (2).





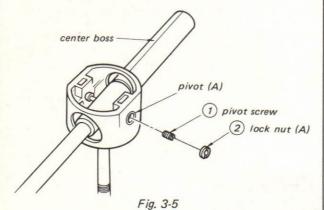
- 1. Thread a wire in J.
- 2. Hook five leads of the pipe assembly by the
- 3. Insert the pipe assembly into $\widehat{\mathbb{L}}$, while pulling the leads.





5. Setting of Pivot Screw and Lock Nut (A)

- Adjust the positions of the pivot (A) and the pivot bearing of the center boss.
- 2. Tighten the screw 1 and the nut 2 temporarily.



- Attach the head shell (with a cartridge) and the counterweight to the tonearm.
- In order to keep a balance, adjust the screw and the nut, repeating the following procedures.
 - a. When the 70 mg weight is placed on the top of the shell (just above a stylus), the tonearm sinks 5 mm (measured at the stylus-tip).
 - b. When the weight is removed, the tonearm returns horizontally.

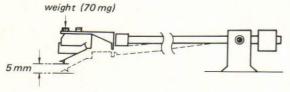
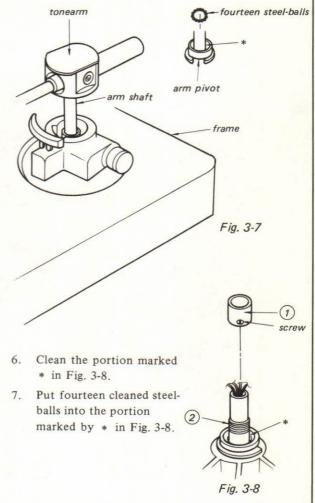


Fig. 3-6

3-2. INSTALLING TONEARM TO FRAME

- Clean the portion of the arm pivot marked by in Fig. 3-7 with an alcohol-moistened swab.
- 2. Insert the arm shaft in the arm pivot by half.
- Put fourteen cleaned steel-balls into the portion marked *.
- 4. Insert the arm shaft in the arm pivot completely.
- 5. Hold the tonearm firmly by hand and turn the set upside-down.



- 8. Insert the ① (with a screw side down) and screw up the ① to the extent of ② being movable slightly up and down.
- 9. Tighten the screw with an L-shaped wrench (dia. 1.27 mm).
- Adjust the stylus-pressure to 750 mg and trace the stylus on the grooveless disk.
- Confirm that the tonearm traverse smoothly from the outer track to the inner.
- 12. If not, readjust the (1).

3-3. INSTALLATION OF TONEARM

- 1. Hold the tonearm on the arm rest firmly.
- Insert the arm lever assembly in the shaft of the tonearm and fix the arm lever assembly temporarily so that the white portion of the arm lever assembly comes off the miniature switch. (OFF position)
- Move the tonearm by hand and confirm that the neon lamp lights up just when the side of
- the head shell comes to a distance of 15 mm from the turntable rim as shown in Fig. 3-10.
- 4. Return the tonearm and confirm that the neon lamp goes off just when the center of the tonearm pipe comes to the tip of the arm rest as shown in Fig. 3-10.
- 5. Fix the arm lever assembly in the shaft of the tonearm firmly.

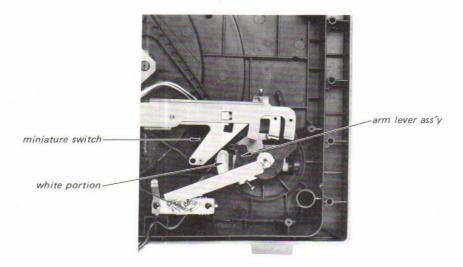


Fig. 3-9

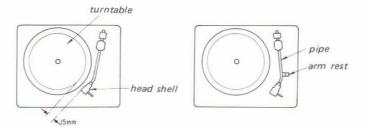
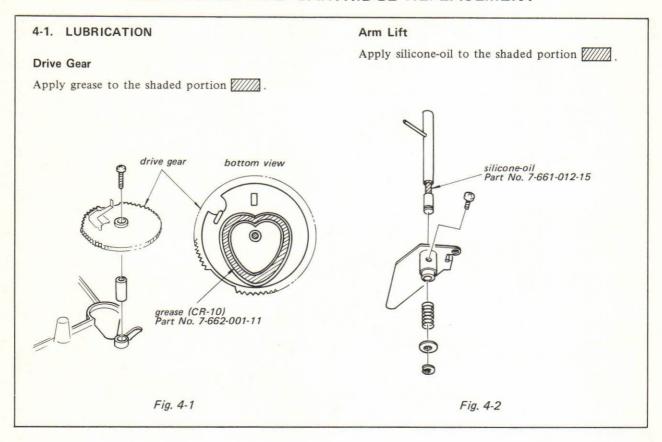
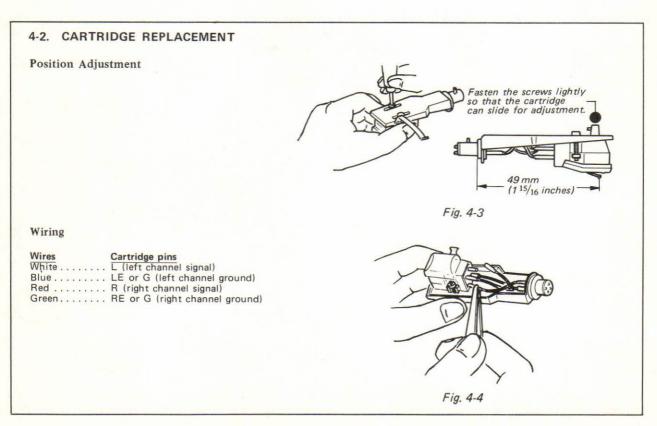


Fig. 3-10



SECTION 4 LUBRICATION AND CARTRIDGE REPLACEMENT





SECTION 5 MOTOR REPAIRING

The motor and the servo amp board are assembled together. If found defective, disassemble the motor block as shown in Fig. 5-1 and repair it.

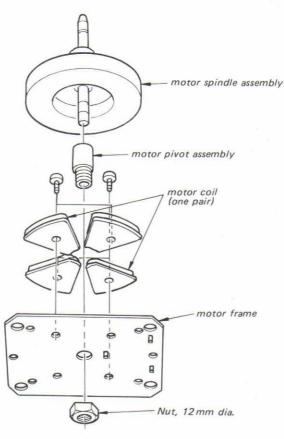
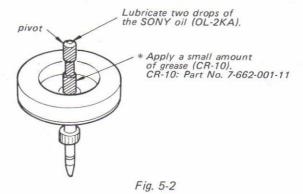


Fig. 5-1

- When the motor shaft is replaced, lubricate two drops of the SONY oil (OL-2KA) in the pivot
- and apply grease to the parts marked by \ast in Fig. 5-2.
- When the motor pivot assembly is replaced, lubricate two drops of the SONY oil (OL-2KA) in the pivot.



- Insert the motor shaft assembly slowly in the motor pivot assembly so that the motor shaft is not disturbed by strong magnetic field strength.
- 4. The motor coils are composed of two pairs.
 - a. Mount the coils on the motor frame so that the boss of the coil is placed in the hole of
- the frame as illustrated in Fig. 5-3.
- b. Push the coils in the arrowed direction and tighten the screws.
- c. Lay the leads of the coils as shown in Fig. 5-4 and fix the leads in the slot between the portions marked by * in Fig. 5-5.

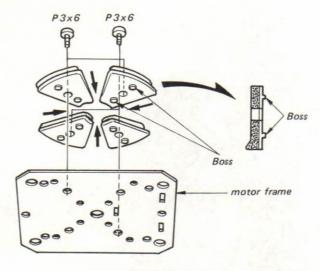
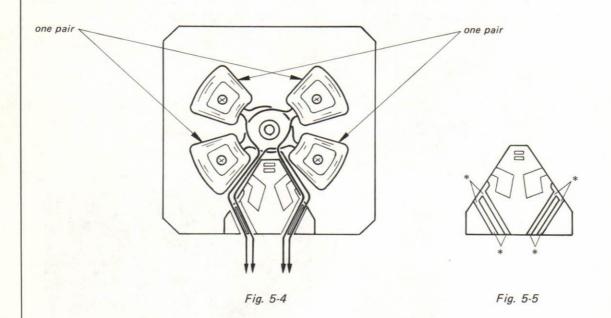


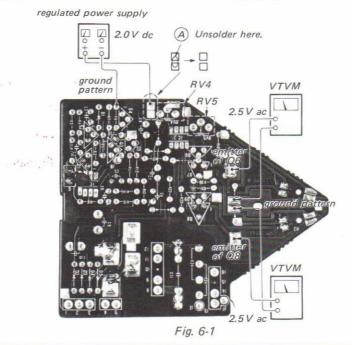
Fig. 5-3



SECTION 6 ADJUSTMENTS

6-1. GAIN ADJUSTMENT

- 1. Remove the turntable.
- 2. Unsolder the portion shown by (A) and connect the regulated power supply as illustrated in Fig. 6-1.
- 3. Connect a VTVM between the emitter Q6/Q8 and the ground.
- 4. Adjust RV4/RV5 so that the VTVM reading is 2.5 V ac.



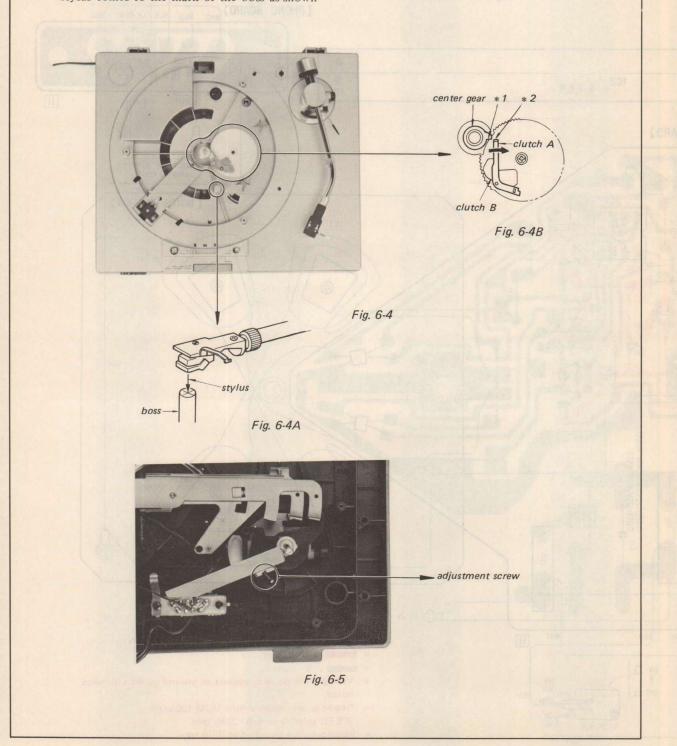
6-2. HEAD SHELL SLANT ADJUSTMENT Loosen the screw and adjust a slant. frame screwdriver Fig. 6-2

In case of being unable to control speed by the PITCH Control, adjust RV2/RV3 (Fig. 6-3) with a screwdriver until the respective stroboscope pattern appears to be stopped. Holes for speed adjustment. RV2 RV3 45 rpm RV3 75 rpm Bottom View Fig. 6-3

6-3. SPEED ADJUSTMENT

6-4. AUTOMATIC RETURN POSITION ADJUSTMENT

- 1. Remove the turntable and the bottom cover.
- 2. Reset: Move the clutch A and the clutch B in the arrowed direction as shown in Fig. 6-4B.
- 3. Adjust the position of the stylus so that the stylus comes to the mark of the boss as shown
- in Fig. 6-4A and the hold the stylus.
- 4. Turn the adjustment screw in Fig. 6-5 so that the portion shown by *1 of the center gear contacts the portion shown by *2 of the clutch A as shown in Fig. 6-4B.



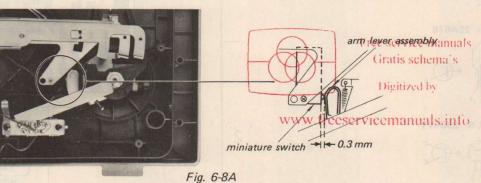
6-5. SPEED DETECTING HEAD ADJUSTMENT 1. Fix the speed detecting head temporarily at a 2. Adjust the head position so that the output distance of 117 mm from the bracket hole to level of the head exceeds 15 mV ac (at 33 rpm) the head tip. when the turntable is rotating. speed detecting head -Fig. 6-6 head bracket bracket hole VTVM more than 15 mV a terminals of C Fig. 6-7

6-6. MINIATURE SWITCH POSITION ADJUSTMENT

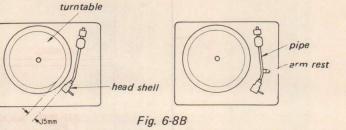
- 1. Lock the tonearm on the arm rest.
- 2. Adjust the adjustment screw so that the positions of the miniature switch and the arm lever assembly are as shown in Fig. 6-8A.
- 3. Move the tonearm by hand and confirm that the neon lamp lights up just when the head

shell comes to a distance of 15 mm from the turntable rim as shown in Fig. 6-8B.

lamp goes off just when the center of the tonearm pipe comes to the tip of the tonearm rest.



. .g. 0 0.



6-7. TONEARM HEIGHT ADJUSTMENT

Automatic/Manual Return Operation

Adjust the height of the lift assembly by loosening the set screw so that the clearance between the stylus tip and the record is 5-9 mm, when the tonearm is raised by using the cueing lever after playing.

Check for the same result when the tonearm is automatically raised.

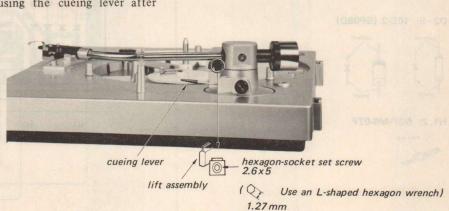
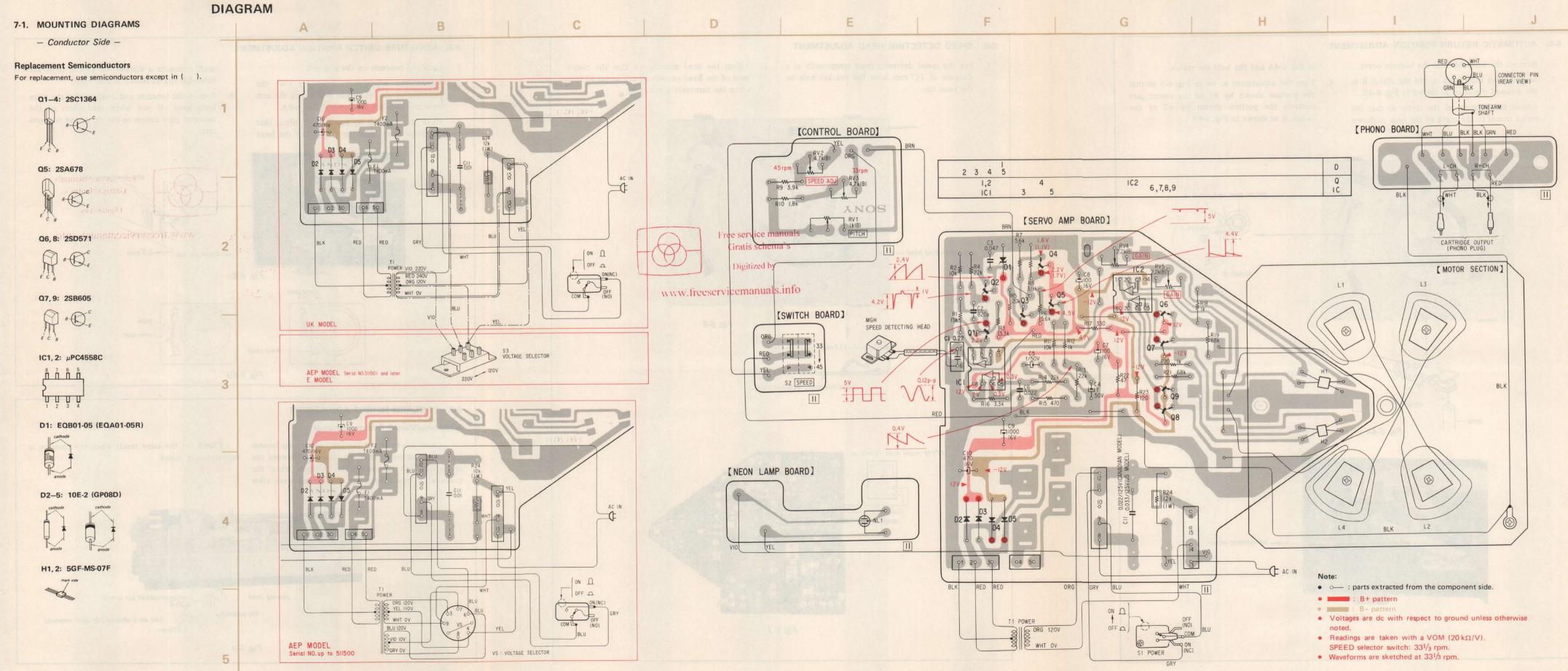
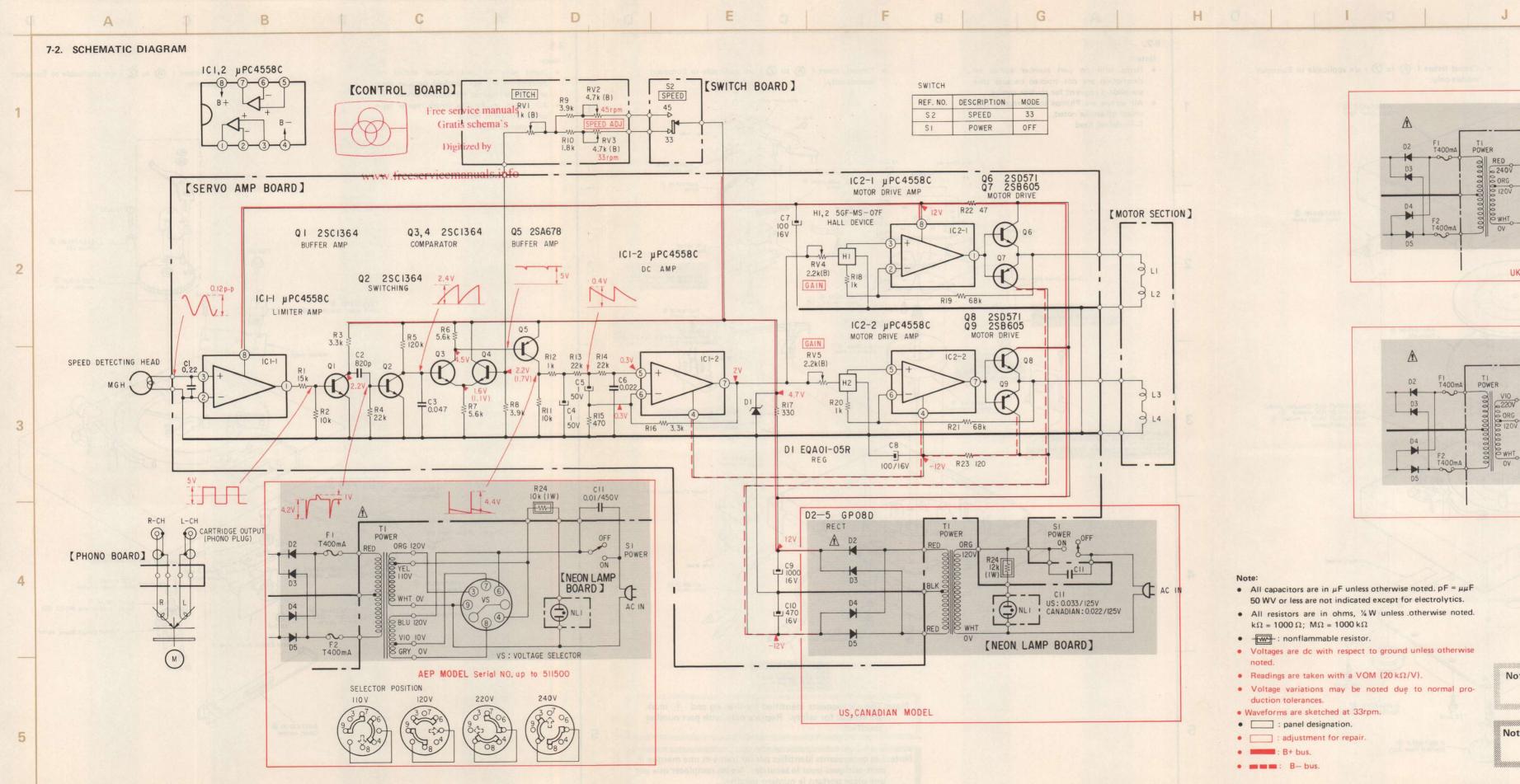


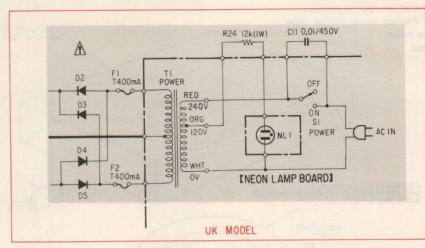
Fig. 6-9

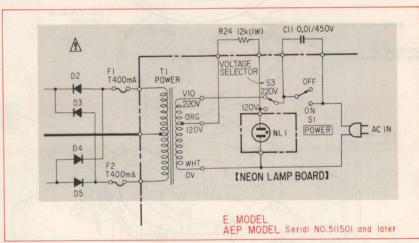
SECTION 7





- 28 -





- 29 -

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

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

PS-Www.freeservicemanuals.info PS-T1 PS-T1 It's Free **SECTION 8 EXPLODED VIEWS** D 8-3. 8-2. 8-1. Note: Circled letters (A to 2) are applicable to European • Circled letters (A) to (2) are applicable to European • Items with no part number and/or no • Circled letters (A to Z) are applicable to European • Items with no part number and/or no models only. description are not stocked because they models only. models only. description are not stocked because they description are not stocked because they are seldom required for routine service. are seldom required for routine service. are seldom required for routine service. All screws are Phillips (cross recess) type • All screws are Phillips (cross recess) type All screws are Phillips (cross recess) type X-4857-612-0 (K)

Dust Cover Ass'y unless otherwise noted. unless otherwise noted. unless otherwise noted. (-) = slotted head (-) = slotted head (-) = slotted head TB 3x20 4-857-653-00 B Hinge, dust cover _4-852-011-00 A Sleeve (A) 4-857-663-11 (UK model) © 4-857-635-00 (AEP, E, US, Canadian model) © Rubber Mat, turntable PSW 3x5 2 _A-4609-010-A Drive Gear Ass'y 4-857-670-00 P 4x50 1-552-103-00 (US, Canadian mo 1-518-89-00 (AEP, E model) Switch miniature POWER (S1 1-543-123-00 B Head, speed detecting (MGH) 4-857-636-00 B 4-857-649-00 N 7.0 1-532-066-00 (AEP, E, UK model) (Fuse, 400 mA (F1, F2) 4-827-486-00 (A) Washer, plastic 4 mm dia. 0 4.857-662-01 (US, Canadian model) 4.857-674-01 (UK model) (A) 4.857-652-01 (AEP, E model) (A) 3 3 1446-079-00 (US, Canadian model) 1446-080-00 (AEP model serial No. up to 511500) ① 1-446-136-11 (UK model) ① 1-446-137-11 (E. AEP model serial No. 511501 and later) ① 4-857-602-00 A 4-857-609-00 B Knob. PITCH control 4-857-606-00 A 4-857-661-00 A Emblem, SONY _ 4-857-610-00 B Knob, speed selector 4 4-857-638-00 © Lever, reject 4-857-650-00 © _ 1-552-233-31 B Switch, pushbutton; SPEED (S2) Printed Circuit Board, neon 1-226-138-00 ® Resistor, 1 kΩ-B variable; PITCH (RV1)

TB 3x - Printed Circuit Board, switch TB 3x6 Printed Circuit Board, volume TB 2.6x6 X-4857-601-1 B Resilient Foot Ass'y Note: The components identified by shading and A mark are critical for safety. Replace only with part number 4-857-639-00 B TB 3x10 specified. 5 X-4857-601-2 B Resilient Foot Ass'y Note: Les composants identifiés par un tramé et une marque 🍂 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. - 32 -- 31 -- 30 -

• A A 4587-009-A N Stylus Ass'y, ND-15G; including part marked • AA

4-815-655-01 (A)

5

C D B A 8-4. Note: • Circled letters (A) to (Z)) are applicable to Items with no part number and/or no description are not stocked because they European models only. are seldom required for routine service. All screws are Phillips (cross recess) type 1 unless otherwise noted. (-) = slotted head AEP, CANADIAN MODEL 4-838-319-00 A Screw (B), cartrid 4-847-716-00 D Bearing, pivot 2-229-507-00 A 4-857-613-00 (B) Cover, arm boss X-4857-606-0 D X-4857-616-0 Head Shell Ass'y Nut, 5mm dia 4-857-643-00 B Arm Boss 1-549-073-00 D Cartridge, VL-32G 4-857-628-00 B Pivot (B) Screw 1.7x2.5 2 X-4846-016-3 B Ground Plate (A) Ass'y TP 2x5 4-857-644-00 D Arm Pipe 4-857-633-00 B Pivot (A) 2-203-518-01 B TP 2x6 TP 2x6 1-561-013-11 © Connector, neck cylinder; with leads 4-841-075-00 A 2-203-519-00 A Nut (A), pivot Screw 1.7x2.5 4-857-631-00 B 2-085-082-00 A Washer, 11.5mm 7-761-151-01 Ball, steel 1/16inch E MODEL 3 4-815-654-00 A 61 Screw (A), cartridge 7-624-133-74 Stopper, CE-type 12mm dia. 7-671-151-01 Ball, steel 1/16inch 4-844-069-00 (A) Nut (D), thrust SC 2.6x3, hexagon socket 1-549-075-00 Cartridge, VM-27G X-4857-611-0 B 4-857-640-00 A SC 2.6x5, hexagon socket 4-857-665-00 A 4-844-087-01 4-857-637-00 B 4 X-4857-603-0 B Lifter Base Ass'y UK MODEL 4-838-319-00 (A) Screw (B), cartrid 4-844-044-00 A 7-624-196-31 G 4-857-604-00 (A) Lever (B), anti-skating compensator X-4857-616-0 Head Shell A X-4857-602-0 B 4-857-603-00 (A) Lever (A), anti-skating compensator 4-847-055-00 (A) ▲B 4-812-632-00 ♠

3-701-443-21 Washer

X-4857-613-0 © Arm Lever Ass'y, including part marked & A, B

P 3x 16

4-836-836-00 A Spring



SECTION 9 ELECTRICAL PARTS LIST

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

1	Ref. No.	Part No.	De	escripti	on	Ref. No.	Part No.			Descript	tion	
		SEMI	CONDUCTOR	S		C10	1-121-939-11	B	470	16 V	elect	
						C11	<u>↑</u> 1-108-750-12		0.033	3 125 V	mylar	
			Transistors						(US 1	model)		
						C11	↑ 1-130-098-11		0.022		film	
(Q1-4	8-729-663-47	B 2SC1364						(Can:	adian mod	lel)	
(Q5	8-727-788-00	B 2SA678			C11	1-115-148-11	0	0.01	450V	paper	
(Q6	8-729-157-11	B 2SD571						(AEP	, E, UK r	nodel)	
(Q7	8-729-160-51	B 2SB605									
(Q8	8-729-157-11	B 2SD571				R	ESI	STOR	S		
(Q9	8-729-160-51	B 2SB605							-		
			ICs				All recistors are in resistors are omitte	ed.				
							Check schematic d	iagra	ım 101	r their vai	ues.	
1	IC1,2	8-759-145-58	D μPC45580	С		R24	1-213-155-11	A			l oxide (nonflamma to serial No. 5115	
			Diodes			R24	<u>↑</u> 1-213-156-11		12k,	1 W; meta	l oxide (nonflamma	
⇒]	D1	8-719-931-05	B EQB01-0	5							E, UK model)	
⇒]	D2-5	1 8-719-200-02	B 10E2		ALCOHOL: NO.		1.006.100.00	0			rial No. 511501 and	d later)
						RV1	1-226-138-00			, variable;		
		Ha	all Elements			RV2,3	1-224-633-00	_		B, adjust		
1	H1,2	8-719-905-07	© 5GF-MS-0	0712		RV4,5	1-224-632-00	B	2.2 k	-B, adjust	able	
	111,2			071				SWI	TCHE	S		
		-	COILS			6.1	A			nor	TED.	
I	L1-4	1-462-157-21	C Motor Co	il, stat	or	S1	<u>↑</u> 1-552-103-00			ature, POV		
		TDA	NOTODIATOO			C1	A 1 516 000 00	0		Canadian		
			NSFORMERS			S1	<u>↑</u> 1-516-889-00	U		ature, PO		
	Γ1	1-446-079-00			adian model)	S2	1-552-233-31	(0)		E, UK 1	PEED 33/45 rpm	
í	Γ1	<u>1-446-080-00</u>			del serial No.	S3	•					
			up to 511	-		33	1-552-535-00	C		age Select		
	Γ1	1-446-136-11	① Power (U								l serial No. 51150	1
	Γ1	1-446-137-11			model serial No.				and l			
			511501 a	nd late	(1)		MIS	CEL	LANE	ous		
		C	APACITORS			F1,2	<u>↑</u> 1-532-066-00	B	Fuse,	400 mA	(AEP, E, UK mode	el)
		All cápacitors are	in μF. 50WV	or less	are not	MGH	1-543-123-00	-		, speed de		
		indicated except f				NL1	1-519-135-11	B	Neon	Lamp		
		$pF = \mu \mu F$, elect = e	lectrolytic			VS	<u>↑</u> 1-526-576-00	0			or (AEP model)	
(C1	1-108-254-12	B 0.22		mylar		A 4505 002 A	•			to 511500)	
	C2	1-102-117-11	A 820p		ceramic		A-4505-003-A	(1)			mbly; XL-15	
	C3	1-108-812-12	(A) 0.047		mylar		A 4507 000 A	•		model)	. ND 440	
	C4,5	1-121-391-11	A 1	50V	elect		A-4587-009-A	N			ly; ND-15G	
	C6	1-161-034-11	A 0.022		ceramic				(UK	model)		
(C7,8	1-123-193-11	A 100	16 V	elect		A1 522 121 00	(1)	11-13	£ ()	ED E III	
	C9	1-121-944-11	B 1000	16 V	elect		1-533-131-00 1-534-777-22				AEP, E, UK model) UK model))
	. D.						↑1-534-777-22 ↑1-534-817-XX					
		to standardization, be substituted for		100			1-549-073-00	1				
	may	or substituted 101	parts specified	an the	- Augranio		1-3+7-0/3-00			idge, VL-3 , Canadia		

Note: The components identified by shading and $\hat{\Lambda}$ mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marq sont critiques pour la sécurité. Ne les remplacer qu une pièce portant le numéro spécifié. Ref. No.



 Circled letters (A to 2) are applicable to European models only.

Part No.	Description
1-549-074-00	© Stylus, ND134G
	(AEP, Canadian model)
1-549-075-00	Cartridge, VM-27G (E model)
1-549-076-00	Stylus, ND135G (E model)
▲ 1-551-207-00	Cord, power (Canadian model)
1-551-294-31	O Cord, phono
↑ 1-551-473-31	Cord, power (E model)
A 1-551-505-00	Cord, power (US model)
1-561-013-11	E Connector, neck cylinder; with leads

ACCES	SSORIES & PACKING MATERIALS
Part No.	Description
3-701-616-00	A Bag, plastic; counterweight, headhsell
3-701-630-00	A Bag, plastic; instruction manual
3-701-632-00	A Bag, plastic; turntable spacer
3-701-806-00	A 45 rpm Adaptor
3-770-497-21	Instruction Manual (US model)
3-794-232-11	Notice (US model)
3-770-497-13	B Instruction Manual (AEP, E, UK model)
3-794-232-11)	© Notice (AEP, E, UK model)
3-770-497-21	Instruction Manual (Canadian model)
3-794-232-11	Notice (Canadian model)
3-794-220-31	Instruction Manual, French
	(Canadian model)
4-857-654-00	① Carton
4-857-655-00	A Plate (A), protection
4-857-656-00	A Plate (B), protection
4-857-657-00	B Bag, protection
4-857-658-00	A Spacer, turntable
4-857-659-00	B Cushion, right
4-857-660-00	B Cushion, left

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

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

MODEL IDENTIFICATIONS

- Specification Label -

US, Canadian model

SONY®	STEREO	TURNTABLE	SYSTEM			
	MODE					
	AC 120 V	60Hz	6W			
	SERIAL NO.					
	MADE IN JAPAN					

AEP, E model

SONY®	STEREO TURNTABLE	SYSTEM			
5×	MODEL NO.PS-TI ~ 120 220V 50/60Hz	8 W			
	SERIAL NO.				
	MADE IN JAPAN				

UK model

SONY®	STEREO	TURNTABLE	SYSTEM			
	MODE ∼ 240V	L NO.PS-TI 50/60Hz	8 W			
	Supplemental and the latter of the latter	SERIAL NO.				
	MADE IN	JAPAN				

STEREO TURNTABLE SYSTEM



Canadian Model
US Model
AEP Model
UK Model
E Model

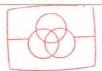
No. 1 July, 1978

CORRECTION

Subject: Wiring of voltage selector and transformer

: corrected portion SCHEMATIC DIAGRAM

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