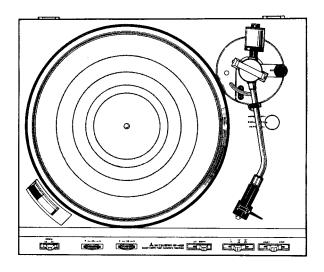


TURNTABLE MODEL DP-630



CONTENTS 2 SPECIFICATIONS 3 DESCRIPTION AND FUNCTION 3 PRECAUTIONS 3 DISASSEMBLY 4 ADJUSTMENT 5 WIRING 7 SCHEMATIC DIAGRAM 9 EXPLODED VIEW 10 MECHANICAL PARTS DESCRIPTION 11 PARTS LIST 12 PACKING INSTRUCTION 13



SPECIFICATIONS

1. PHONO MOTOR SECTION

2. TONEARM SECTION

3. CARTRIDGE SECTION

Recommended tracking force2g

Output level (1kHz,5cm/sec)3mV

Channel separation (1kHz)23dB

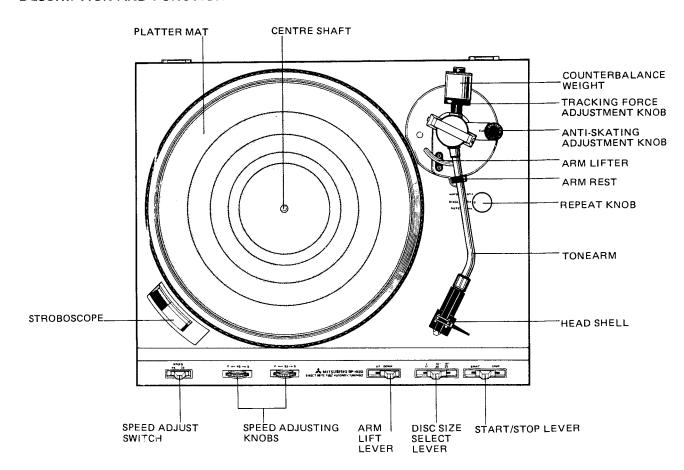
4. GENERAL

Power consumption 5W

 $(17-7/8 \times 5-5/8 \times 14-7/8")$

Design and specifications are subject to change without notice for improvement.

DESCRIPTION AND FUNCTION



PRECAUTIONS

- Choose a level and rigid surface to place the unit which will not be subjected to external vibrations.
 Be sure to locate the unit away from speakers. Since turntables are susceptible to stray magnetic fields locate them away from strong magnetic feilds (away from colour televisions, speakers, etc.).
- 2. Do not attempt to stop the platter by hand.
- When playing a disc, do not stack serveral discs on the platter or attempt to play a badly warped disc.
- 4. Do not turn on the power switch when the platter has been removed from the unit.
- 5. As the tonearm is composed of precision compoments, be careful not to apply any strong force which may damage it, notably when installing the cartridge or when adjusting the tracking force.

DISASSEMBLY

1. REMOVAL OF PANEL

- (1) Pull out the four operating knobs from the top panel surface. As the knobs are fit quite tightly use a pair of pliers to hold and pull out the knobs. In this case, the knob should be covered with a piece of cloth first so as not to damage the knob.
- (2) Remove the bottom plate.
- (3) Remove the panel's three fitting screws.(Screw A of Fig. 1)Now, the panel can be removed.

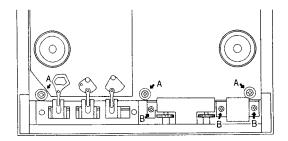


Fig. 1

2. REPLACEMENT OF SPEED ADJUSTMENT CONTROL

- (1) Remove the bottom plate from the set.
- (2) Remove the speed selector knob.
- (3) Remove the three screws of the control and the holder used for the switch.

(Screw B of Fig. 1)

- (4) As the knob is fixed to the VR shaft with a bonding agent, remove the bonding agent first with a sharp-tipped screwdriver, or razor knife. (Fig. 2)
- (5) After removing the knob from the control shaft, the variable resistor (control) can replaced by removing the control fitting nut as well as the solder.

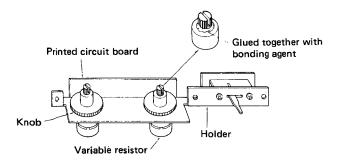


Fig. 2

3. REMOVAL OF TONEARM

- (1) Remove the bottom plate from the apparatus.
- (2) After removing the two E-rings(circlips) for the arm drive lever, pull out the lever from the post.
- (3) Remove the screw for the arm lifter and remove the spring.
- (4) Disconnect the output lead wires of the tonearm.
- (5) After loosening the screw with which the adjustment lever is fixed to the arm shaft, remove the adjustment lever.
- (6) Now, the tonearm can be removed when the three screws used for securing the tonearm are unscrewed. (Fig. 3)

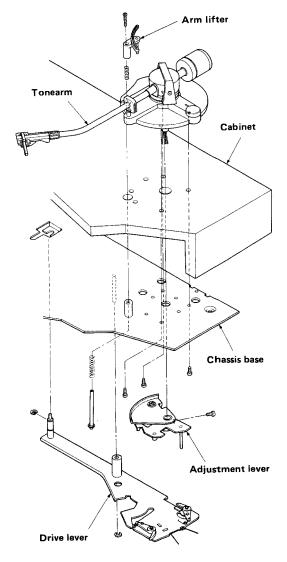
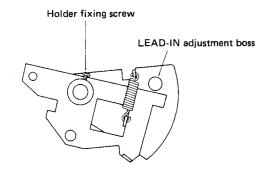
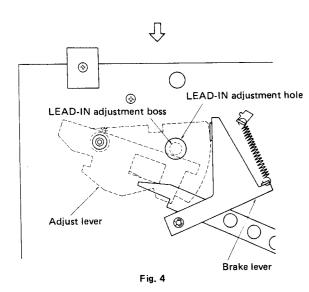


Fig. 3

4. INSTALLING THE TONEARM

- (1) Fit the tonearm to the chassis base using three screws
- (2) Attach the adjustment lever to the tonearm shaft. As the position of the adjustment lever will affect the LEAD-IN position, be sure to attach it properly, referring to the Fitting Diagram (Fig. 4). Improproper attachment of the adjustment lever may lead to inablity to perform LEAD-IN adjustments properly.
- (3) Connect the output lead wires of the tonearm.
- (4) Attach the lifter and spring using screws removed
- (5) Attach the arm drive lever using the E-rings.





Note: When attaching the adjust lever to the tonearm, attach it so that the LEAD-IN adjustment boss which is provided on the adjust lever will be positioned in the centre of the LEAD-IN adjustment hole of the chassis base, as illustrated in the drawing. (Fig. 4)

ADJUSTMENT

1. TRACKING FORCE ADJUSTMENT

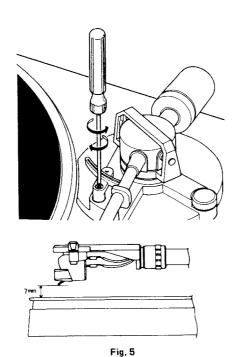
Note: During tracking force adjustment, be careful not to let the stylus tip come in contact with either the platter or the platter mat.

- (1) After removing the stylus cover from the cartrige, disengage the arm from the arm rest, and bring the cartridge to the area between the platter and arm rest.
- (2) While holding the head shell with one hand, turn the counter balance weight with the other, and adjust it so that the arm will be horizontally balanced. Then, secure the arm to the arm rest.
- (3) While adjusting the counter balance weight, position the mark of the tracking force adjustment knob to "0".

2. ADJUSTMENT OF STYLUS TIP HEIGHT

Note: Adjust the stylus tip height using the adjustment screw for the arm lifter.

- (1) The height of the stylus tip will become lower as the adjustment screw is turned clockwise and higher when turned counterclockwise.
- (2) For this unit, the optimum stylus tip height is 7mm measured from the disc surface.



3. LEAD-IN ADJUSTMENT

- (1) The position of LEAD-IN will move toward the inner side of the disc when the LEAD-IN adjustment screw is turned counterclockwise.
- (2) Conversely, when the adjustment screw is turned clockwise, the LEAD-IN position will move toward the outer side of the disc. (Fig.6)
- (3) When the red mark on the adjustment screw is closest to the platter, the stylus tip will be at the innermost position.

Note: The original condition will be restored when this adjustment screw is turned one turn in either of the directions (clockwise, or counterclockwise).

(4) When the above adjustments fail to produce proper results, the reason can be that the adjust lever has not been properly attached to the arm shaft. Re-attach it in a proper manner.

4. LEAD-OUT ADJUSTMENT

- (1) Remove the platter. The adjust lever is provided with an adjustment screw, which when turned clockwise, will quicken the RETURN speed.
- (2) When the screw is turned counterclockwise, the RETURN speed will become slower. (Fig. 7)

Note: The original condition will be restored by turning this adjustment screw for one turn in either of the directions (clockwise, or counterclockwise).

5. ADJUSTMENT OF MOTOR SERVO P.C. BOARD

- (1) Bring the speed adjustment VRs, VR101 and VR102 to their mechanical centers.
- (2) For 33-1/3 r.p.m. adjustments, adjust the preset resistor VR33 of the motor servo P.C.B. such as that pattern of the stroboscope becomes still. When VR33 is turned clockwise, the speed will increase, whereas when turned counterclockwise, it will decrease.
- (3) For 45 r.p.m. adjustments, adjust the semifixed resistor VR45 in a similar manner as above (2). (Fig. 8)

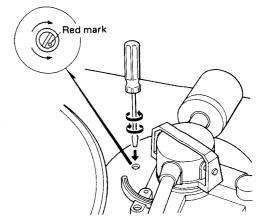


Fig. 6

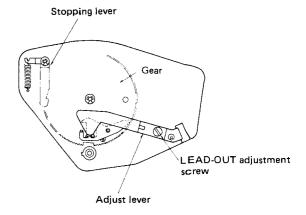
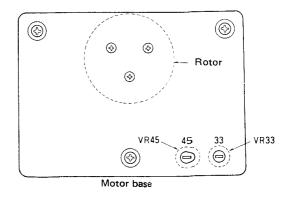


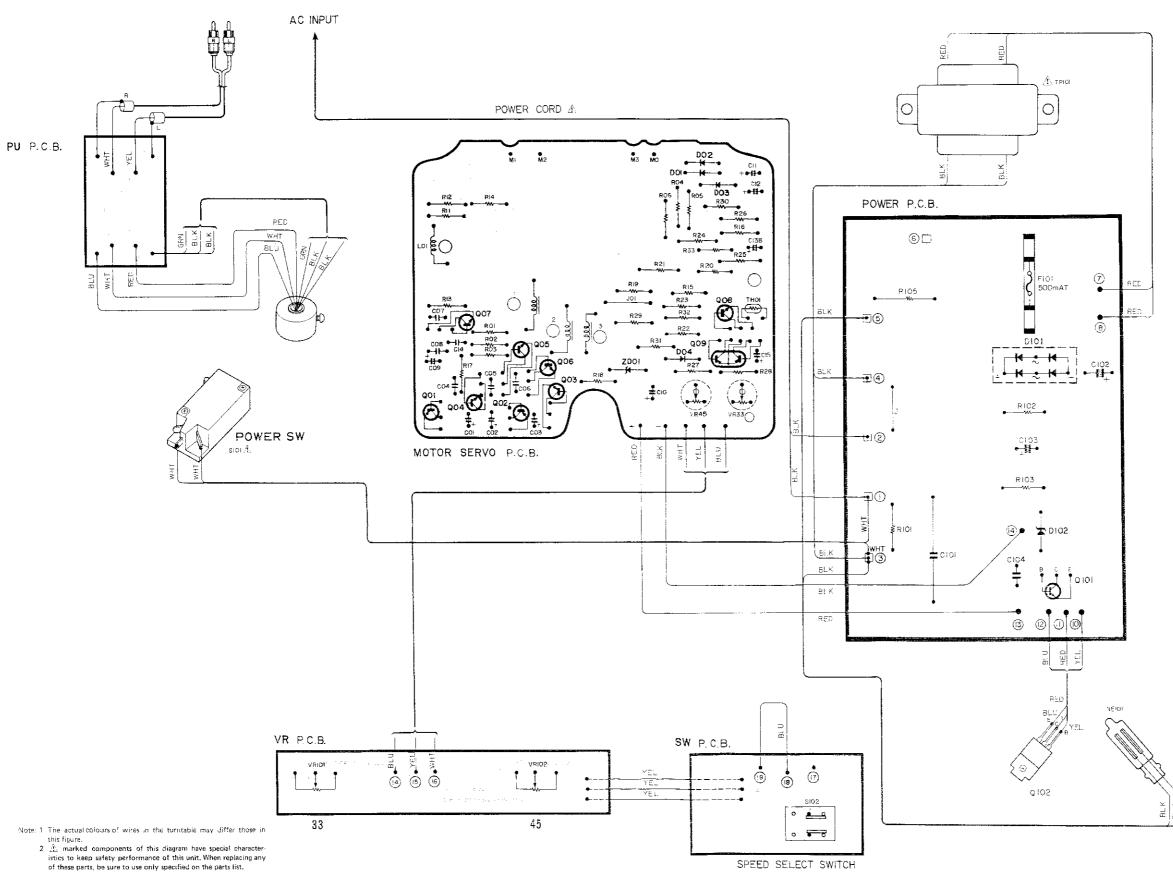
Fig. 7



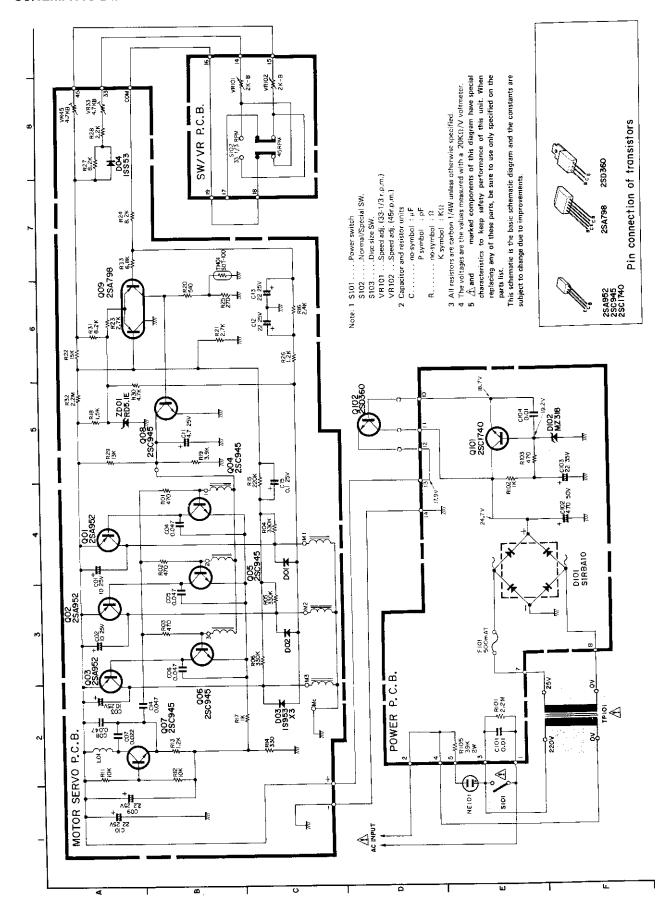
(Fitting Diagram as viewed from the rear side of the unit.)

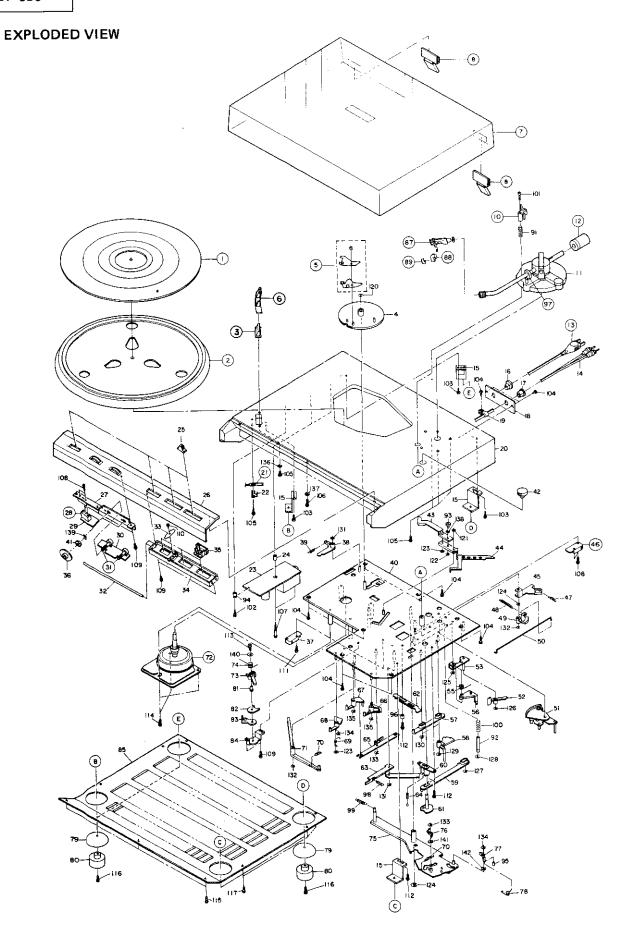
Fig. 8

WIRING



SCHEMATIC DIAGRAM





MECHANICAL PARTS LIST

NOTE: Encircled parts are prepared as a servicing part.

No.	Part No.	Description		No.	Part No.	Description
①	M07296757	PLATTER MAT	1	12	M07452638	MOTOR-184M
① 2	1407475005	PLATTER		73 74		LEVER SPRING
③ 4	M07475605	REFLECTOR (STROBO)		75		LEVER
(5)	M07384705	CAM-ASS'Y		76		LEVER (RESET)
6		ORNAMENT (STROBO)		77		LEVER (LEAD-IN)
	M07374690	DUST COVER		78 79		SPRING COVER (LEG)
9	M07374127	HINGE		80	M07475695	LEG
<u> </u>	M07243619	ARM LIFTER		81		POST
11	U487B022G08	TONEARM		82		PLATE
(2) (3)	M07384635 M07459440	MAIN WEIGHT POWER CORD	1	83 84		PLATE HOLDER
14	1007455440	LEAD (OUTPUT)		85		BOTTOM PLATE
15		HOLDER		86		SPRING
16		CLAMPER CLAMPER		®	M07475734	HEAD SHELL ASS'Y CARTRIGE(AUDIO TECHNICA)
17 18		HOLDER	i i	88	M07475760	AT-71
19		CLAMPER		89	M07179613	STYLUS (3D-42M)
20		CABINET		90		SPRING -
②1) 22	M07374250	NEON LAMP HOLDER	1	91 92		POST
23		POWER C. BOARD		93		PIN
24		POST		94	•	POST
25		KNOB (SPEED, ARM LIFTER,	1	95 96		POST POST
26		START, DISC SIZE) PANEL-ASS'Y		97)	M07243618	ARM REST ASS'Y
27		HOLDER		98		SPRING
28	M07452660	SWITCH-SLIDE (S102)		99		SPRING SPRING
29 30		SWITCH P. C. B. VOLUME P. C. B.		100 101		FLAT HEAD SCREW M3 x 16
30	M07452400	VOLUME-STD-B2K20		102		_
32		SHAFT		103		TAPPING-SCREW 1-3 × 12
33 34		PLATE HOLDER		104 105		TAPPING-SCREW 1-3 × 16 TAPPING-SCREW 1-3 × 10
35		HOLDER	1 1	106		BIND HEAD SCREW M3 x 10
36		KNOB (SPEED ADJ.)		107		TAPPING-SCREW 1-3 x 30
37		MICRO-SWITCH	1	108 109		BIND HEAD SCREW M2.6 × 4 BIND HEAD SCREW M3 × 6
38 39		LEVER SPRING		110		TAPPING-SCREW 1-3 x 8
40		CHASSIS BASE		111		SCREW M3 × 14
41		NUT		112		BIND HEAD SCREW M3 × 12 BIND HEAD SCREW M+ × 16
42		KNOB (REPEAT) ACTUATE BAR	1	113 114		SCREW M3 × 6
44		ACTUATE BAR		115		SCREW M3 × 8
45		LEVER		116		SCREW M3 × 12
46	M07499600	MICRO-SWITCH (S101)		117 118		TAPPING-SCREW 1-3 x 14
47 48		SPRING SPRING		119		
49		LEVER (ARM UP/DOWN)		120		E-RING
50		LINK	1	121		E-RING E-RING
51 52		ADJUST LEVER		122 123		WASHER TOOTHED
53		LEVER		124		E-RING
54		SPRING		125		E-RING
55 56		SPRING LEVER		126 127		E-RING E-RING
57		LEVER		128		E-RING
58		LEVER		129		E-RING
59		LEVER		130 131		E-RING E-RING
60 61		CAM (REPEAT)		132		E-RING
62		LEVER		133		E-RING
63		LEVER SPRING		134 135		E-RING
64 65		LEVER		136		WASHER
66		LEVER (START/STOP)		137		WASHER
67		LEVER (DISC SIZE)		138		WASHER
68 69		LEVER (ARM LIFTER) SPRING		139 140		WASHER WASHER
70		SPRING		141		WASHER
71		LEVER (LEAD-IN/OUT)		142		WASHER

PARTS LIST

NOTE: A and marked components on Parts list have special characteristics to keep safety performance of this unit. When replacing any of these parts, be sure to use only specified parts.

to use only specified parts.						
Symbol No.	Part No.	Description				
Transistors						
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q101 Q102	M07452303 M07452303 M07452303 M07390303 M07390303 M07390303 M07390303 M07390303 M07133303 M05104313 M05079311	2SA952 2SA952 2SA952 2SC2320 2SC2320 2SC2320 2SC2320 2SC2320 2SC2320 2SA798 2SC1740 2SD360				
Diodes						
D01 D02 D03 D04 D101 D102 ZD01 TH01	M07243323 M07243323 M07243323 M07297323 M07151320 M07151322 M07452323 M07374335	1S953 1S953 1S953 1SS53 S1RBA10 MZ318 5.1E3 SDT-100				
	Miscell	aneous				
TP101 S101 S102	M07459440 M07500549 M07499600 M07452660	POWER CORD A TRANS, POWER A MICRO SW. (POWER) A SLIDE SW. (SPEED SELECT)				
VR101 VR102 NE101 F101 C101	M07452400 M07452400 M07452638 M07374250 M07191603 M07337490 M07470360	VOLUME (SPEED ADJ.) VOLUME (SPEED ADJ.) MOTOR NEON LAMP (STROBO) ADAPTOR (45 r.p.m.) FUSE-500mA-SEMKO CapPAPER 0.01 µF 450V Å				

PACKING INSTRUCTION

