

“WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.”

Cautions for safest use of this apparatus

Caution: This apparatus should be disconnected from the mains, when not in use.

Warning

This apparatus need not earth because of double insulation.

Important

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

BLUE: NEUTRAL

BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

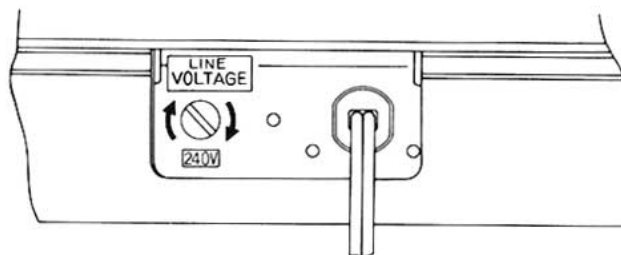
The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**. The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured **RED**.

Power source

LINE VOLTAGE SELECTOR:

Be sure that the line voltage selector is correct to your local voltage before connecting the plug to the socket. DC power cannot be used.

If your local voltage is different, please turn the AC line voltage selector with a screw driver to your local voltage.



Power supply ~110/120/220/240 V, 50 Hz or 60 Hz
Power consumption 6 W

 **Technics**

DIRECT DRIVE PLAYER SYSTEM

SL-1500
SL-150

OPERATING INSTRUCTIONS

This instruction manual covers both the SL-1500 and SL-150. The SL-150 is the same as the SL-1500 in every aspect, but comes only without tonearm section.



Read these instructions completely, before operating this set.

We want to thank you for selecting the SL-1500/SL-150, DIRECT DRIVE PLAYER SYSTEM.
For optimum performance, we recommend that you read these instructions carefully.

1 PARTS IDENTIFICATION



Fig. 1-1

The SL-150 is specially designed for SME improved tonearm or others.
So install a tonearm according to the instructions of your tonearm.

2 BEFORE USE

1 CHECK THE PARTS (SL-1500)		(SL-150)	
Player unit	1	Player unit	1
Dust cover	1	Dust cover	1
Turntable platter	1	Turntable platter	1
Turntable mat	1	Turntable mat	1
45 r.p.m. adaptor	1	45 r.p.m. adaptor	1
Special oil	1	Special oil	1
Balance weight	1	Arm base	1
Head shell	1		
Overhang gauge	1		

2 REMOVE THE SHIPPING SCREWS

Remove the two shipping screws and place them in the retaining holes for future use, when the player must again be transported. (See Figs. 2 and 3)

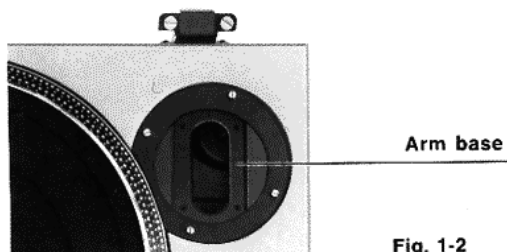
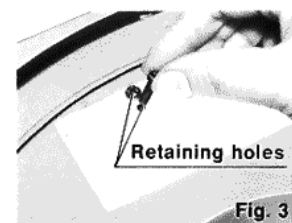
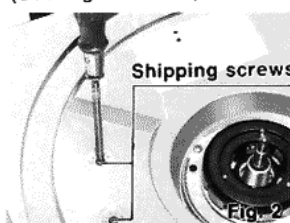


Fig. 1-2

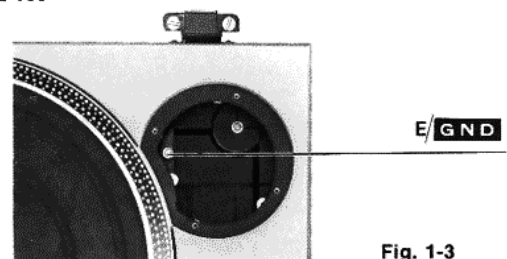


Fig. 1-3

③ APPLY TWO OR THREE DROPS OF OIL TO THE MOTOR SHAFT

Although the unit has been lubricated before shipping from the factory, apply a few drops of oil to the motor shaft for assurance. After that, application of two or three drops of oil once every 2000 hours' operation or so is sufficient. The time interval is much longer than that of the former type motors (200–500 hours), so do not apply too much oil, nor more frequently than necessary. Never use any other type of oil.



Fig. 4

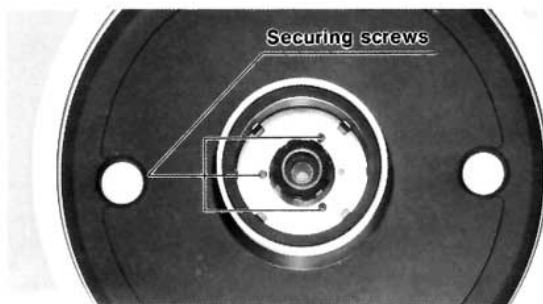


Fig. 5

NOTE

The rotor is connected to the reverse surface of the turntable platter. (The magnet of the motor is attached to the turntable platter.) To maintain optimum performance as specified, extra care should be taken to prevent adhesion of dust or iron filings to the magnet and not to damage the magnet by dropping it.

Do not remove the three screws securing the magnet. (See Fig. 5)

Should the position of the fixed magnet be altered by loosening the securing screws, the rated performance of the unit can not be guaranteed.

Caution:

Never connect the AC power plug before the assembly has been completed.

Attach the dust cover at the last stage of the assembly so that assembling of other parts and adjustments can be made efficiently.

3 HOW TO ASSEMBLE

① INSTALLATION OF THE TURNTABLE PLATTER

Place the turntable platter on the motor shaft.
Place the rubber turntable mat on the platter.

② INSTALLATION OF THE CARTRIDGE (OPTIONAL)

Connect the lead wires to the cartridge terminals.

White (L +)Left channel +

Blue (L -)Left channel -

Red (R +)Right channel +

Green (R -)Right channel -

Install the cartridge to the spacer, and tighten it with screws provided with the cartridge. (See Fig. 6)

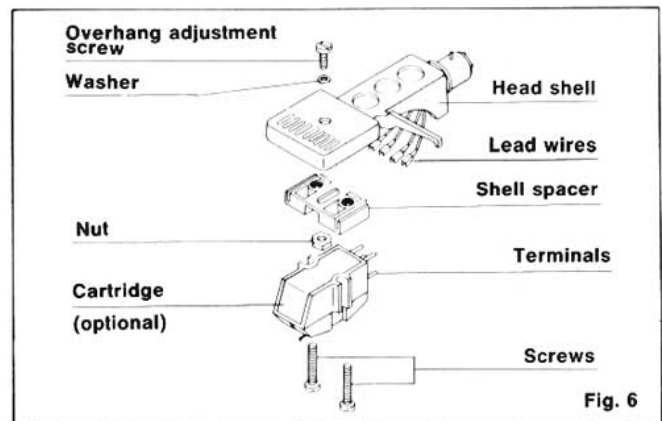


Fig. 6

Insert the head shell into the gauge. (See Fig. 7)

Loosen overhang adjustment screw and move the cartridge forward or backward until the stylus tip lines up with the edge of the gauge.

Tighten adjustment screw without moving the cartridge.

NOTE

Your cartridge is now adjusted for lowest tracking error and minimum distortion.

This gauge is exclusively designed for this tonearm.

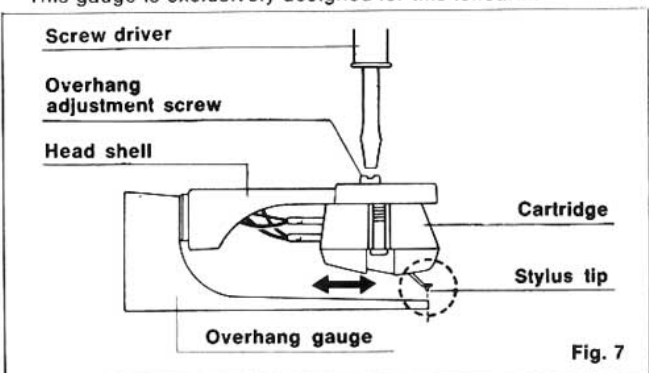


Fig. 7

③ INSTALLATION OF THE HEAD SHELL

Insert the head shell in the end of the tubular arm, and tighten it by turning the locking nut. (See Fig. 8)

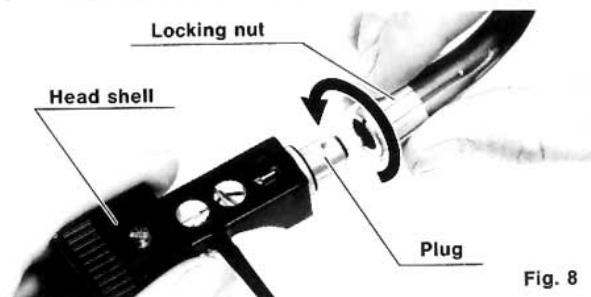


Fig. 8

④ ADJUSTMENT OF THE HORIZONTAL "0" BALANCE

Insert the balance weight on the rear shaft of the tonearm, with the numbers facing the front of the player.

Lower the cueing lever.

Release the arm clamp, and turn the entire balance weight forward or backward until the tonearm is approximately balanced (floats freely). In this condition, stylus pressure is "0". (See Fig. 9)

After the arm is horizontally balanced, gently rotate the stylus pressure ring, so that the "0" lines up with the center line of the rear shaft. (See Fig. 10)

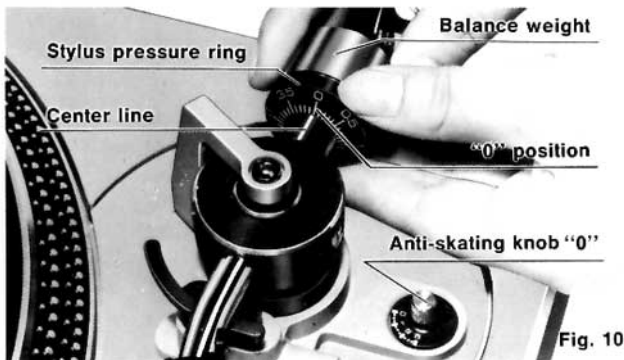
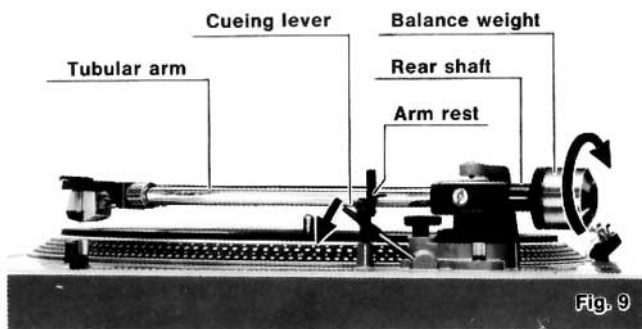
Do not move the balance weight during this adjustment.

NOTE

Before adjustment of the "0" balance, make sure the anti-skating knob is set at the "0" position. (See Fig. 10)

If you turn the balance weight, the stylus pressure ring also moves in the same direction.

HORIZONTALLY BALANCED STATE



5 ADD THE STYLUS PRESSURE AND THE ANTI-SKATING FORCE VALUE

Turn the balance weight in the direction of the arrow (See Fig. 9) to the correct stylus pressure. (Follow the Cartridge Manufacturer's recommendation.) Then turn the anti-skating knob to the same value as the stylus pressure ring. (See Fig. 11)

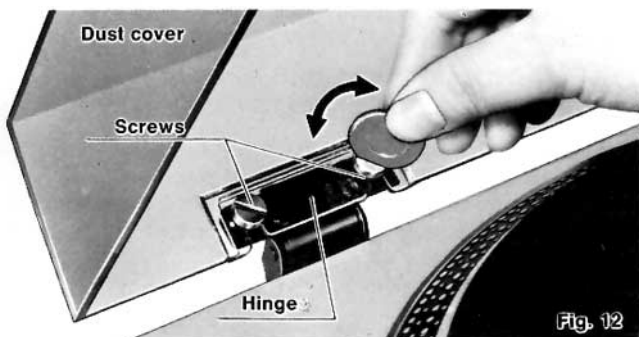


6 INSTALLATION OF THE DUST COVER

Loosen the hinge screws and install the dust cover between the screws and hinges. Retighten the screws securely. (See Fig. 12)

NOTE

In rare cases the dust cover may become the cause of "HOWLING" from speaker vibrations. In such a case we recommend that you remove the dust cover during playing.



4 PLACEMENT

- 1 Use the player in a stable and horizontal position, where there is little or no vibration.

- 2 Use the player as far away from the speakers as possible and isolate the player from sound radiation from them. This player is equipped with audio insulators to minimize acoustic feedback, but, if the speakers are placed too near the player, sound vibration may be transmitted to the tonearm and result in "HOWLING" feedback.
- 3 Do not place the player where it is exposed to direct sun, dust or moisture or heat. Also keep it away from heating equipment.

5 CONNECTIONS

1 CONNECT THE AC POWER PLUG

Connect the AC power plug to the AC wall socket.

CAUTION

Make sure that the AC line voltage corresponds to the turntable's requirements before connecting the power plug. Never connect to a DC power socket.

2 CONNECT THE OUTPUT TERMINALS

Connect the output terminals to the corresponding channels of your amplifier.

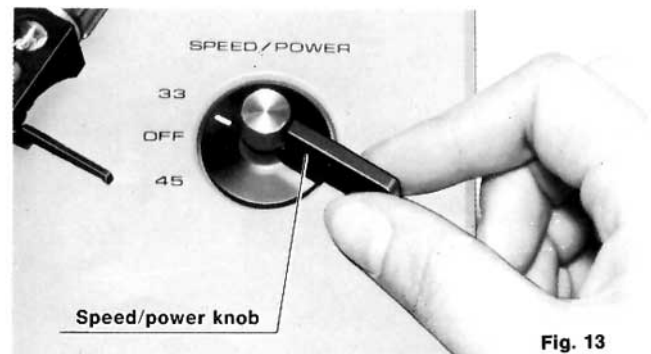
OUTPUT TERMINALS	AMPLIFIER
L (White)	→ L Channel
R (Red)	→ R Channel
E (Spade Lug)	→ GND

NOTE

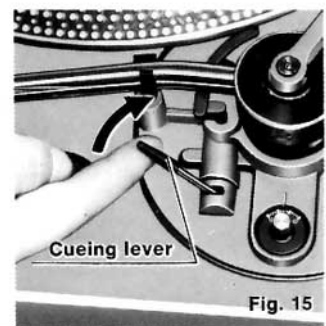
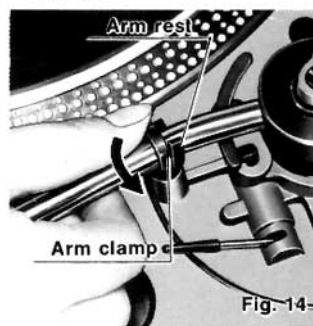
Be sure to connect the ground wire to the amplifier ground terminal or to the chassis. If this connection is not made properly, "HUM" will result.

6 HOW TO PLAY

- 1 Set the speed/power knob to the record speed corresponding to the record which you want to play. (See Fig. 13)



- 2 Release the arm clamp and lift the cueing lever. (See Figs. 14 and 15)



- 3 Place the tonearm over the lead-in groove (or over any other desired groove), and then lower the cueing lever. The tonearm will descend slowly on the record and play will begin.
- 4 When play has finished, raise the cueing lever and place the tonearm on the arm rest, then secure it with the arm clamp.

NOTE

If you play a 45 r.p.m. record with a large center hole, use the 45 r.p.m. adaptor, supplied with this unit.

7 ADJUSTMENT

① SPEED ADJUSTMENT (with pitch control knobs) (See Fig. 16)

The speed is already adjusted accurately in the factory.

If, for any reason, you wish to readjust the speed, turn these pitch control knobs to "+" direction or "-" direction.

"+" direction This increases the speed of the turntable platter.

Turn the knob to "+" direction if the strobe dots seem to be "falling back"; i.e., seem to be moving counterclockwise.

When the strobe dots appear to be stationary, the speed is accurate.

"-" direction This decreases the speed of the turntable platter.

Turn the knob to "-" direction if the strobe dots seem to be "running ahead"; i.e., seem to be moving clockwise, until they appear stationary.

Each of the two turntable speeds (33-1/3 and 45 r.p.m.) can be adjusted within a range of 10%.

NOTE

Any change in powerline frequency will cause a change of the fluctuation rate of the neon or fluorescent lamp used for the illumination of the strobe dots. In such case the strobe dots will start to move very slightly.

Under normal conditions the powerline frequency from Electric Utility Companies is extremely stable. Under certain abnormal conditions, however, changes in line frequencies have been observed, averaging to about 0.2% when measured over a period of time.

Such change in line frequency will in no way affect the quality of the sound reproduction, as a change of line frequency does not change the rotational speed of the turntable.

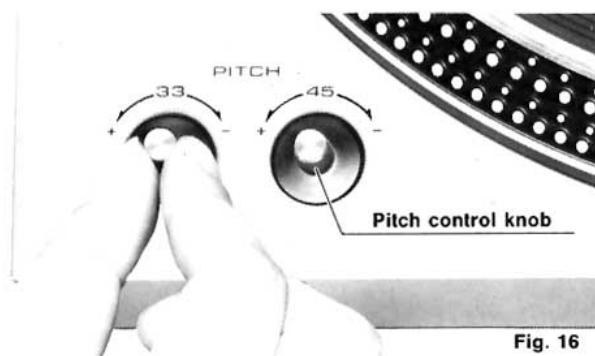


Fig. 16

② SPEED ADJUSTMENT (with speed adjustment screws) (See Fig. 17)

If, the adjustment cannot be properly made with the pitch control knobs, turn these screws clockwise or counterclockwise with a screw driver.

Clockwise The rotation of the turntable platter will be slowed down.

Counterclockwise The rotation will be speeded up.

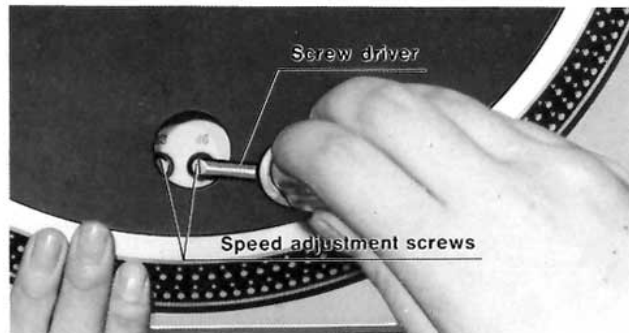


Fig. 17

③ ADJUSTMENT OF THE ARM LIFT HEIGHT

The arm lift height (distance between the stylus tip and record surface when cueing lever is raised) has been adjusted at the factory before shipping to approximately 5 to 10 mm (3/16" to 25/64").

If the clearance becomes too narrow or too wide because of the physical size of the different cartridges on the market turn the adjustment screw clockwise or counterclockwise, at the same time pushing the arm lift down.

Clockwise rotation

—distance between the record and stylus tip is reduced.

Counterclockwise rotation

—distance between the record and stylus tip increases.

NOTE:

As the adjusting screw has a hexagon head, be sure to make the adjustment while depressing the arm lift.

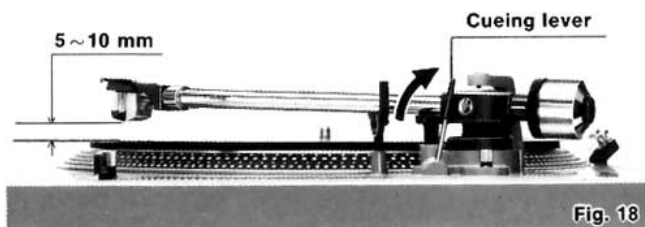


Fig. 18

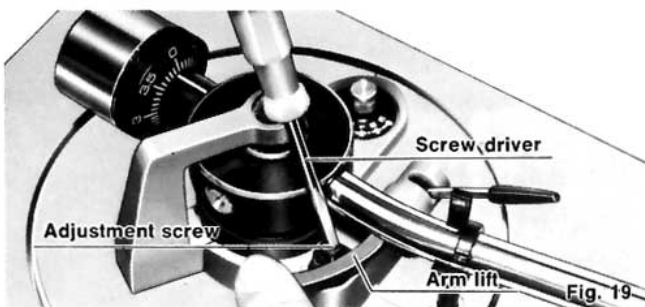


Fig. 19

8 NOTES

① Extra care should be taken in handling the turntable platter.

The turntable platter has a rotor (the magnet of the motor) directly connected to it. Therefore, the turntable platter should not be removed from the motor shaft unnecessarily, since adhesion of dust or iron filings onto the magnet results in deterioration of the performance. Should it become necessary to remove the turntable platter, be sure to pull the AC power plug out of the socket.

② Wipe the dust cover and player case with a soft, dry cloth.

Never use any cleaners containing alcohol, benzine or thinner. Use of a chemical dust cloth and the like should also be avoided. Be sure that the dust cover is not exposed to insecticide spray, as cracks or blurs may result.

To remove stubborn finger prints or grease spots detach the dust cover or disconnect the AC power plug and use a soft cloth damped with a mild soap and water solution.

③ Dust and dirt adhering to the stylus tip or the record should be carefully removed.

If used with dust and dirt adhering to the stylus tip, the stylus will not fit into the sound groove of the record correctly. This may not only result in the deterioration of tone quality, but cause undue wear of the record and the stylus tip itself.

Use a brush having soft tips, moving it from the base to the tip of the stylus carefully for removing dust and dirt.

The record should also be carefully wiped with a record cleaner of high quality.

④ Before detaching or attaching the head shell, be sure to turn the volume control for the amplifier or receiver to "0" position, or to turn off the power.

Detaching or attaching of the head shell, with the volume control turned high, may not only result in unpleasant noises, but cause damage to the speakers.

9 SPECIFICATIONS

(TURNTABLE SECTION)

Type	Manual Player system
Drive method	Direct drive
Motor	Ultra-low-speed brushless DC motor
Turntable platter	Aluminum die-cast, 33 cm (13") diameter
Turntable speeds	33-1/3 and 45 r.p.m.
Speed change method	Electronic
Variable pitch controls	Individual control knobs, 10% adjustment range
Wow and flutter	0.03% W.R.M.S. (JIS C5521) $\pm 0.042\%$ Weighted zero to peak (DIN 45507)
Rumble	-50 dB (DIN 45539A) -70 dB (DIN 45539B)

(GENERAL)

Power supply	~110/120/220/240 V, 50 or 60 Hz
Power consumption	6 W
Dimensions	13.9 x 45.3 x 36.6 cm (H x W x D) 5-1/2 x 17-3/4 x 14-3/8 inches
Weight	7.8 kg (17.2 lb)

(TONEARM SECTION)

Type	Universal "S" shaped tubular arm, static-balanced type, direct reading stylus pressure adjustment, with anti-skating force control device, and cueing device
Effective length	230 mm (9-1/16")
Overhang	15 mm (19/32")
Friction	7 mg (horizontally and vertically)
Effective mass	23 g (6.5 g cartridge weight 1.5 g stylus pressure)
Tracking error angle	Within $+3^\circ$ (at the point of 145 mm (5-45/64") from the center) Within $+1^\circ$ (at the point of 55 mm (2-3/16") from the center)
Adjustable stylus pressure	0 to 3 g
Cartridge weight range	5 to 11 g
Head shell weight	9.5 g

10 FEATURES

(TURNTABLE SECTION)

Motor construction peculiar to Technics in which the rotor of the motor is integrally connected to the turntable platter. In Technics player system we took the lead in the world by putting the Direct Drive system on the market with a marked improvement in the performance of record players. Since then, we have developed numerous players of high performance, furnishing new topics of conversation each time. One of these achievements is the motor construction of this unit, unique and singular in the world, in which the rotor of the motor is directly connected to the turntable platter. Moreover, the motor base has been integrally connected to the player case of diecast aluminum for presenting player systems of higher accuracy and rational construction.

Hi-Fi performance with rumble (signal to noise ratio) of -70 dB (DIN 45539B) and wow and flutter of 0.03% (W.R.M.S.)
The brushless DC motor of ultra-low speed (same rotation as the record) adopted has extremely small power consumption of 0.1 W, which is less than approximately 1/100 when compared with the AC motor (10-20 W). Thus the DC motor is free from vibrations due to excessive energy or heat generation. Needless to say, it has no reduction transmission mechanism such as a belt or idler, which may give rise to uneven rotation.

Player case is of diecast aluminum for a slim & compact design

(TONEARM SECTION)

Highly sensitive universal tonearm which fully realizes the excellent performance of high-compliance cartridges

A superior combination of the precision pivot bearing and gimbal suspension system

The employment of the precision pivot bearings at the horizontal and vertical journals of the tonearm, coupled with the gimbal suspension system, displays an excellent tracing performance in cooperation with the use of high-compliance cartridge.

Diecast aluminum head shell

The head shell, integrally formed by strong diecast aluminum for reduction in weight, is protected from harmful head shell resonance. Additionally, the head shell terminals are gold-plated for prevention of contact faults at replacement.

Viscous damped cueing

To prevent damage to the stylus tip and records liable to take place during operation of the tonearm, a cueing device damped with viscous oil is adopted. Since the tonearm can be raised or lowered through operation of the lever, location of a desired playing portion or temporary suspension of the playing are conveniently achieved.

Anti-skating control

Proper outside force can be applied by such a simple operation as aligning the knob with the same value as the stylus pressure, thus cancelling the skating force harmful to the stylus tip.

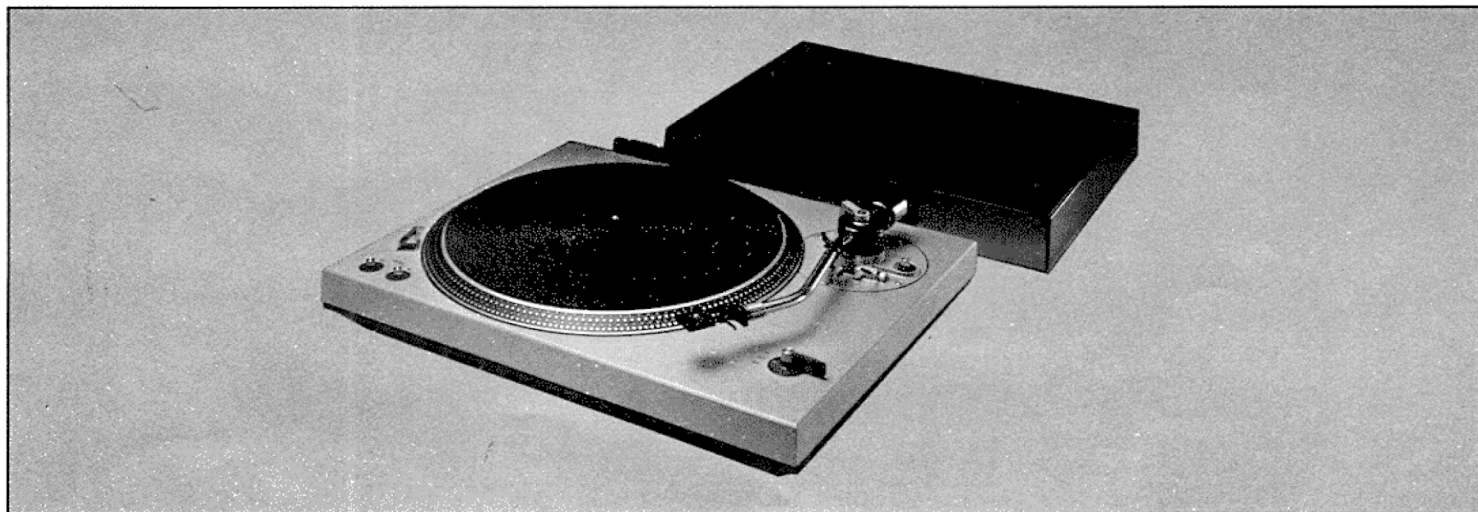
Low-capacitance phono cables that will not impair the high frequency characteristics of the cartridge

Uniquely designed overhang gauge

This unique accessory is designed not only as an overhang adjustment gauge, but also as a head shell stand.

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

Player
SL-1500



(TURNABLE SECTION)

(GENERAL)

(TONEARM SECTION)

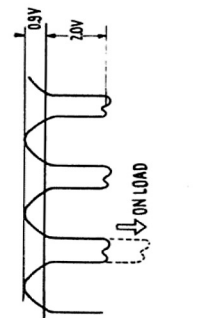
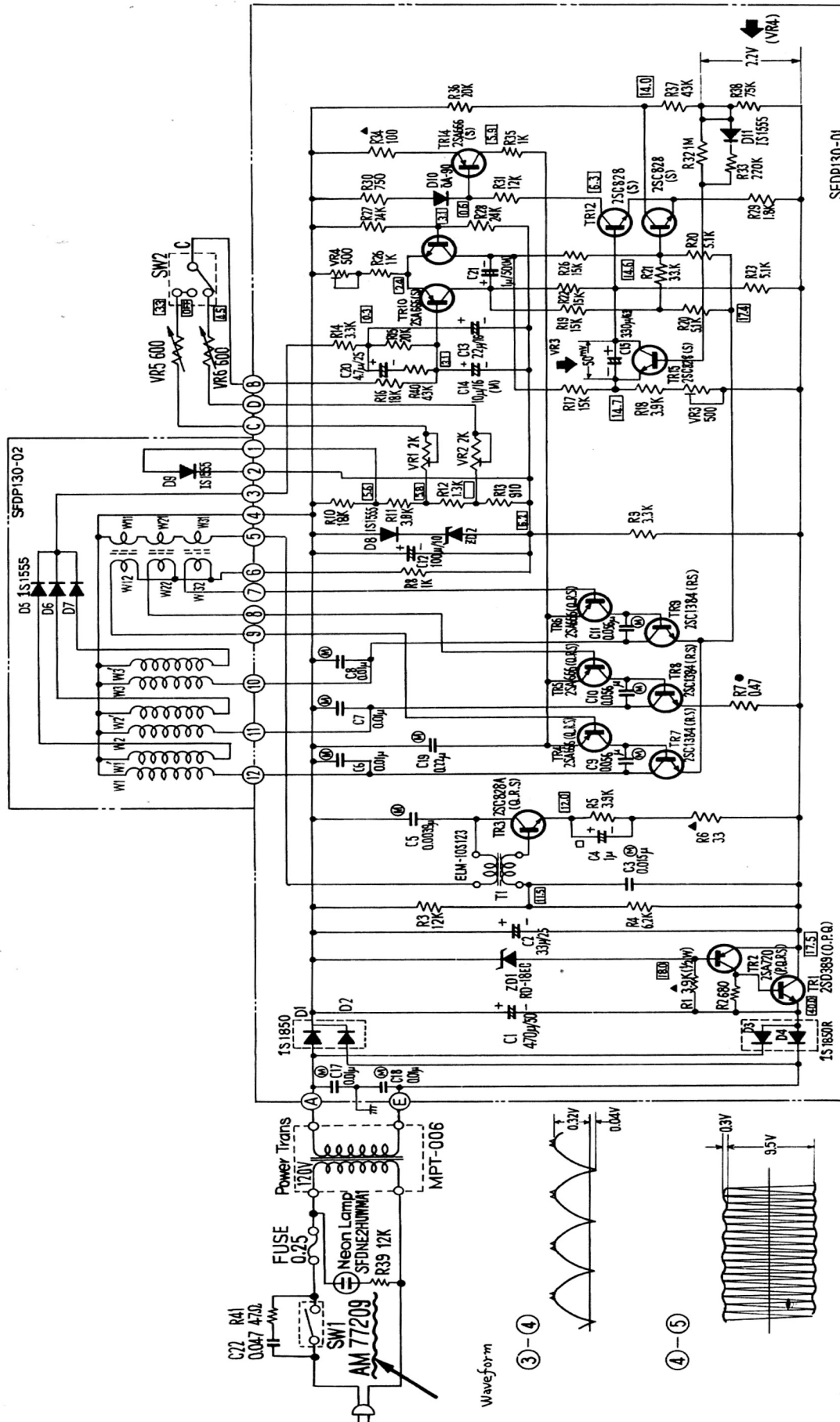
Offset angle21.5°
Adjustable stylus
pressure0 to 3 g
Cartridge weight range5 to 11 g
Head shell weight9.5 g

Technics

by Panasonic

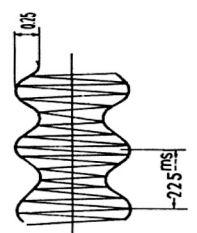
Matsushita Electric of Canada Ltd.
40 Ronson Drive Rexdale, Ont

SCHEMATIC DIAGRAM SL-1500

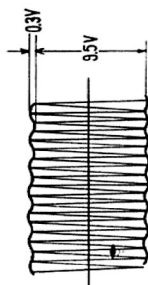


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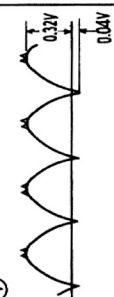
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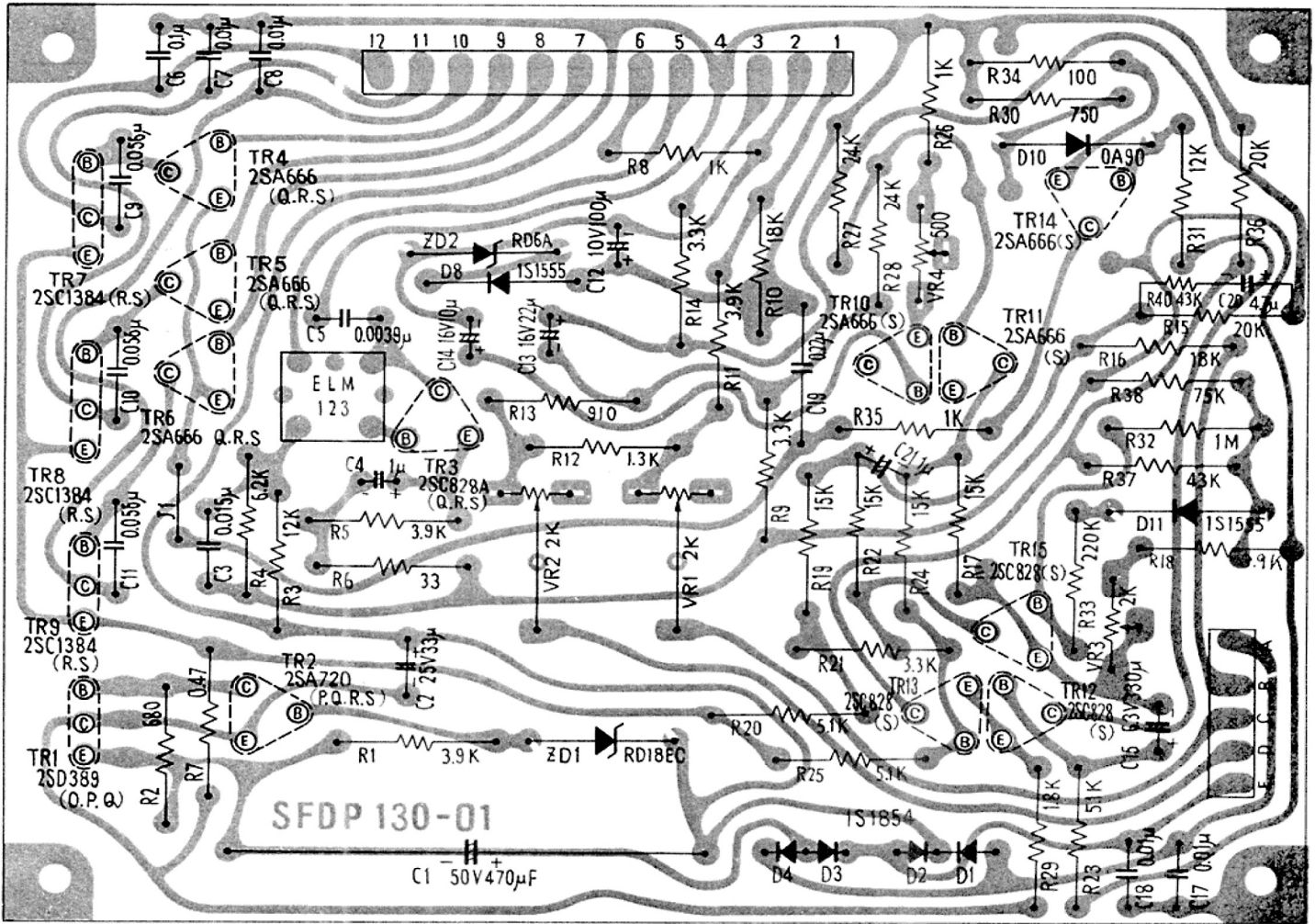


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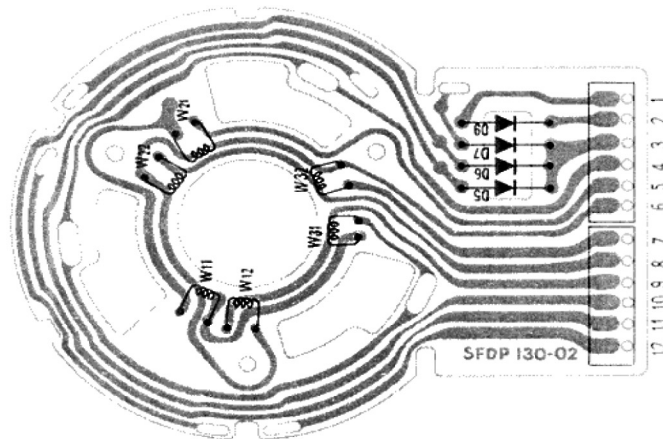


③-④

CIRCUIT BOARD



Circuit Plate



Motor

TROUBLE SHOOTING GUIDE

* Except when checking voltage, disconnect the power cord before repair without fail.

TROUBLE	CAUSE	REMEDY
Turntable Speed A. Switching on does not cause turntable to rotate.	Remove back cover and, using DC voltmeter, check printed base voltage: 1. No output of constant-voltage circuit (between Tr1 collector and 4) is found. (1) No output on secondary of transformer. * Cord disconnected. * Soldered improperly. * Fuse disconnected. * Power transformer defective. (2) Output found on secondary of transformer. * Constant-voltage circuit parts (ZD1, Tr1, Tr2) defective. 2. Output of constant-voltage circuit is 17~20V. * 3-phase switching circuit (Tr4 ~ Tr9), oscillator circuit (Tr3) defective. Tr14 defective. 3. Power Switch is not ON. * Micro switch defective. 4. Speed selector switch defective. * Contact faulty * Soldered improperly.	* Replace cord. * Solder securely. * Replace fuse. * Replace power transformer. * Replace printed base assembly. * Replace printed base assembly. * Replace micro switch. * Replace speed selector switch. * Solder securely.
B. Turntable speed too fast.	1. Constant-voltage output is not 17~20V. * Constant-voltage circuit parts (ZD1, Tr1, Tr2) defective. 2. Constant-voltage output is 17V~20V. * Diodes D8, D9, ZD2 defective. * Diodes D5, D6, D7 shorted. * Speed maladjusted.	* Replace printed base assembly. * Replace printed base assembly. * Replace motor. (Stator frame Ass'y). * Adjust semi-fixed resistor VR1 & VR2.
C. Turntable speed too slow.	1. Constant-voltage output is not 17~20V. * Constant-voltage parts (ZD1, Tr1, Tr2, defective.) 2. Constant-voltage output is 17~20V. * Diodes D8, D9, ZD2 defective. * Speed unadjusted.	* Replace printed base assembly. * Replace printed base assembly. * Adjust semi-fixed resistor VR1 & VR2.
D. Turntable speed varies too much.	* Trouble in 3-phase switching circuit.	* Replace printed base assembly.
E. Turntable, after stopped by hand, will not turn or starts turning but will stop soon.	* 3-phase switching circuit defective.	* Replace printed base assembly.
F. Operative at only one of two speeds. (33-1/3 rpm, 45 rpm)	* Selector switch defective. * Lead disconnected or unsoldered. * Contact of Vr1, Vr2 insufficient.	* Replace selector switch. * Replace lead, or solder securely. * Replace printed base assembly.
G. When actuating, turntable speed is unsteady for along time.	* Semi-fixed resistor VR3 & VR4 unadjusted.	* Make it become 50mV at both ends of C15 with semi-fixed resistor VR3. * Make it become 2.2V at both ends of R38 with semi-fixed resistor VR4.
Noise Offensive noise is hears.	* Power transformer makes loud noise of vibration. * Broken part of rotor magnet of iron chips attracted by magnet and rubbed by motor case.	* Replace power transformer. * Remove iron chips.

ADJUSTMENT INSTRUCTION

① SPEED ADJUSTMENT (with pitch control knobs) (See Fig. 1))

*The speed is already adjusted accurately in the factory.

*If, for any reason, you wish to readjust the speed, turn these pitch control knobs to "+" direction or "-" direction.

"+" direction This increases the speed of the turntable platter.

Turn the knob to "+" direction if the strobo dots seem to be "falling back"; i.e., seem to be moving counterclockwise.

When the strobo dots appear to be stationary, the speed is accurate.

"-" direction This decreases the speed of the turntable platter.

Turn the knob to "-" direction if the strobo dots seem to be "running ahead"; i.e., seem to be moving clockwise, until they appear stationary.

*Each of the two turntable speeds (33-1/3 and 45 r.p.m.) can be adjusted within a range of 10%.

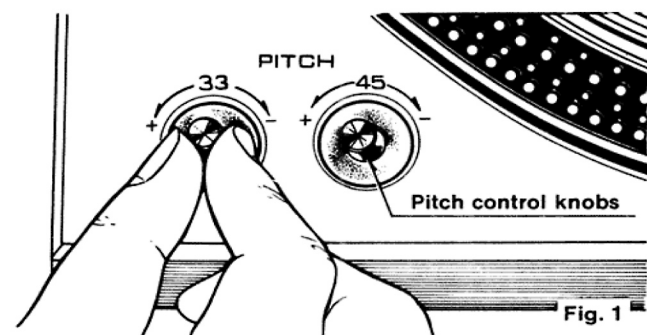
NOTE

*If there is a change in the incoming power-line frequency used for strobo neon-lamp indication, the strobo dots may then begin to move, although very slightly.

Though commercial electrical power is widely thought to be very stable with respect to frequency, if precisely measured over a period of time, there will be observed slight changes which amount to an average of 0.2%. This will cause the strobo dots to move.

This, of course, will never spoil sound reproduction in the least, as the turntable revolution is still stable.

Note that the cause of the apparent motion is the fact that the turntable's speed is more static than power-line frequency, and independent of it.

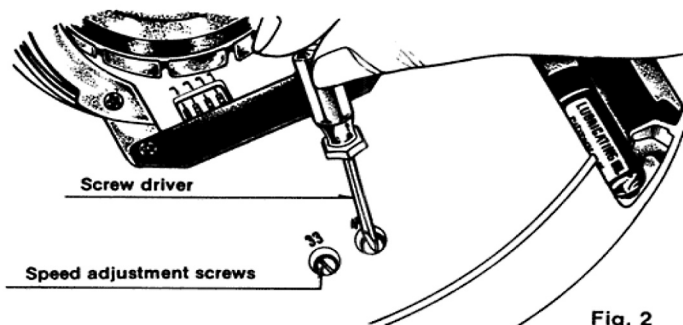


② SPEED ADJUSTMENT (with speed adjustment screws) (See Fig. 2)

*If, for any reason, the adjustment cannot be successfully made by the pitch control knobs, turn these screws clockwise or counterclockwise with screwdriver.

Clockwise The rotation of the turntable platter will be slowed down.

Counterclockwise The rotation will be speeded up.



③ ADJUSTMENT OF THE ARM LIFT HEIGHT

*The interval (the space between the stylus tip and record surface when the cueing lever is raised) of this tonearm has been adjusted from 5 to 10 mm (3/16" to 25/64").

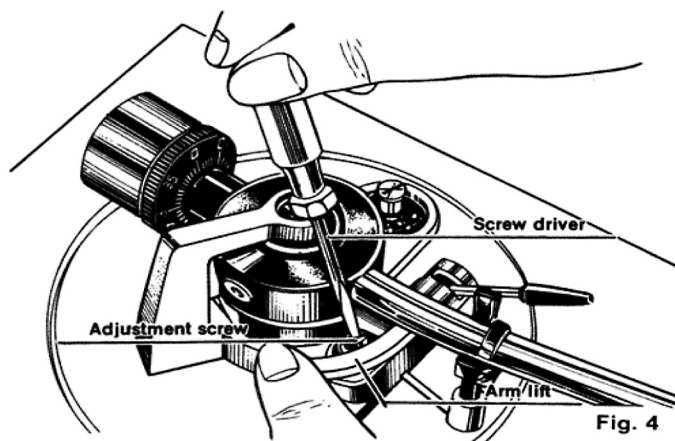
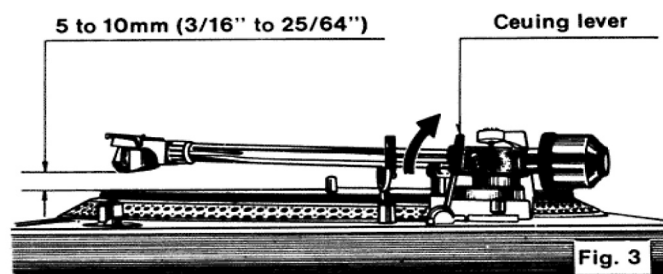
*If, for any reason, the range is too narrow or wide, turn the adjustment screw clockwise or counterclockwise pushing the arm lift. (See Fig. 3 and 4)

NOTE

*This screw has hexagonal head shape, so be sure to push the arm lift when you turn this screw.

Clockwise The space will be narrower.

Counterclockwise The space will be wider.



④ INSTALLATION OF THE CARTRIDGE

*Insert the head shell into the gauge. (See Fig. 5)

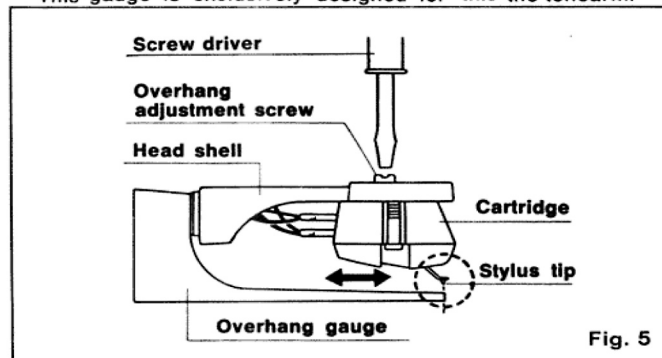
*Loosen overhang adjustment screw and move the cartridge forward or backward until the stylus tip lines up with the edge of the gauge.

*Tighten adjustment screw without moving the cartridge.

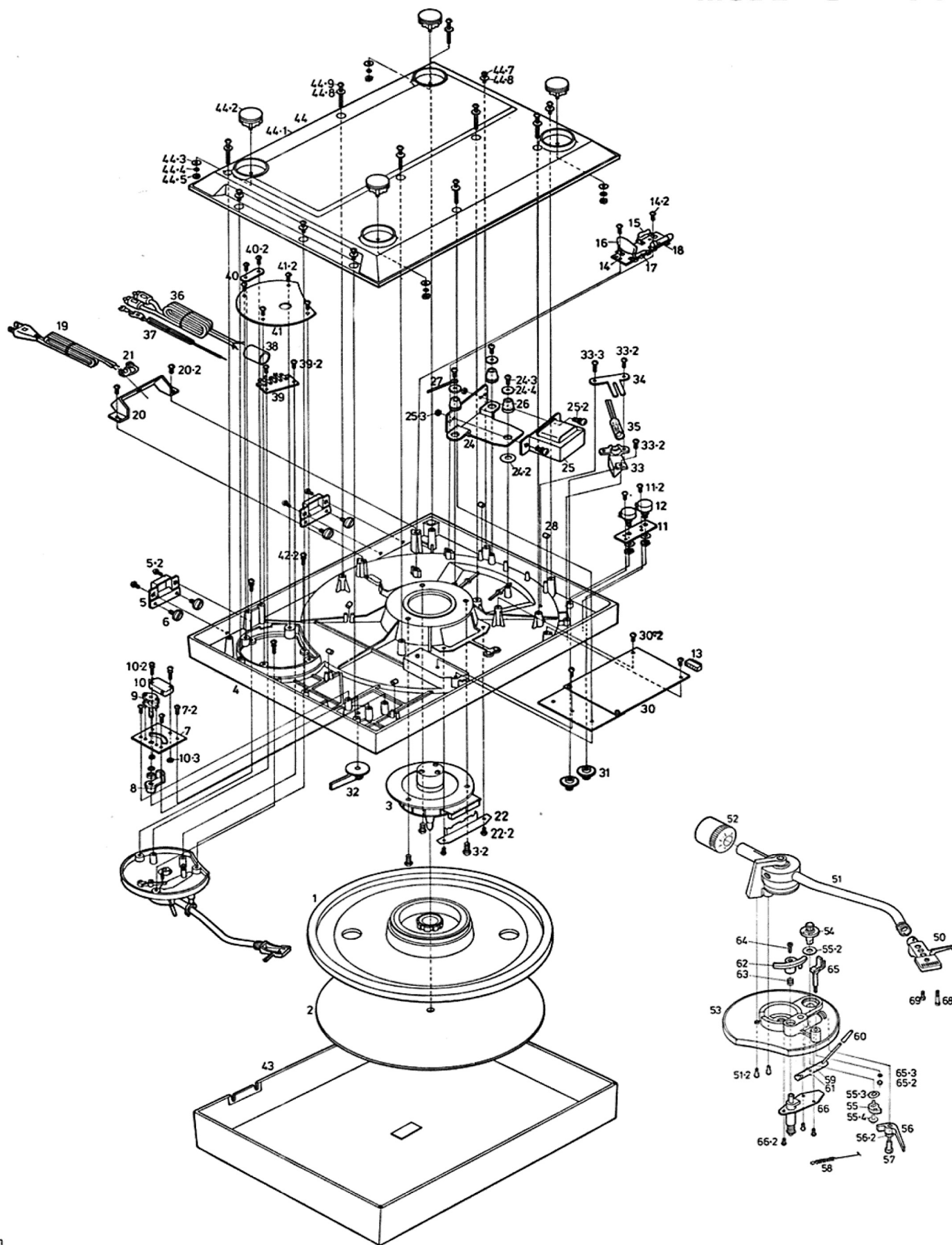
NOTE

*This position is the stylus for lowest tracking error and minimum distortion.

*This gauge is exclusively designed for this the tonearm.



EXPLODED VIEW OF DIRECT DRIVE PLAYER MODEL SL-1500



PARTS LIST

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
1	SFTE150-01A	Turntable platter	1	○	43	SFAD150M01A	Dust cover assembly	1	○
2	SFTG120-01	Turntable mat	1		44	SFAU150-01A	Bottom cover assembly	1	○
3	SFMZ150-01Z	Starter frame assembly	1	○					
3-2	XTN4+8BFU	Screw for stater frame	3		44-2	SFUZ150-01A	Audio insulator assembly	4	
4	SFAC150M01	Player case	1	○	44-3	SFXW022-1	Washer for audio insulator	4	
5	SFAT150-01A	Hinge assembly	2	○	44-4	XWA3BF	Spring washer for audio insulator	4	
5-2	XTV3+8BFZ	Screw for hinge assembly	4		44-5	XNG3HFUS	Nut for audio insulator	4	
6	SFXG020L01	Screw for hinge assembly	4		44-7	XTN3+33BFZ	Screw for bottom cover	7	
7	SFUP150-01	Switch plate	1	○	44-8	SFXW120-01	Washer for bottom cover	12	
7-2	XTN3+8BFU	Screw for switch plate	3	○	44-9	XTN3+10BFZ	Screw for bottom cover	5	
8	SFUM150-01	Switch cam	1						
9	ESRE113K30C	Rotary switch	1	○	50	SFPCC13001K	Head shell assembly	1	
10	AM77209	Micro switch	1		51	SFPAM15001K	Arm unit assembly	1	○
10-2	XYN3+C16FUS	Screw for micro switch	2		51-2	XYN3+C12FU	Screw for arm base	2	
10-3	XNG3HFUS	Nut for micro switch	2		52	SFPWG15001K	Balance weight assembly	1	○
11	SFUP150-02	Mounting plate for variable resistor	1	○	53	SFPKD15001	Arm base	1	○
11-2	XTN3+8BFU	Screw for mounting plate	2		54	SFPJK13001K	Anti-skating force control knob	1	
12	EVHBOAK15B62	Variable resistor	2		55	SFPJK13002	Canceler cam A	1	
13	SFDJ12805S	5-pin connector	1		55-2	SFPEW1100	Washer for canceler cam	1	
14	SFER110X04E	Terminal strip	1		55-3	SFUPWR005	Washer for canceler cam	1	
14-2	XTN3+8BFU	Screw for terminal strip	2		55-4	XTW26+5DFU	Screw for canceler cam	1	
15	ERG1ANJ123	Carbon film resistor	1		56	SFPJK13003	Canceler cam B	1	
16	ECOM6473MZ	Capacitor	1		56-2	SFXW551D2	Washer for canceler cam B	1	
17	ERD12TJ4R7	Carbon resistor	1		57	SFPJK15002	Cam shaft	1	○
18	XBAS2B0201	Fuse	1		58	SFPSP13001	Spring for canceler	1	
19	SPT-1	AC power cord	1		59	SFPJL13007K	Cueing lever assembly	1	
20	SFUP130-04	Mounting plate for AC power cord	1		60	SFPAB12002	Knob for cueing lever	1	
20-2	XTN3+8BFU	Screw for mounting plate	2		61	SFPGM13001	Cueing rubber	1	
21	SFHK040L	Bushing for AC power cord	1		62	SFPRT13003K	Arm lift	1	
22	SFUP130-06	Print base cover	1		63	SFQA829-03	Spring for arm lift	1	
22-2	XTN3+6BFU	Screw for print base	2		64	SFXG829-1	Screw for adjustment of arm lift height	1	
24	SFUP130-03	Mounting plate for transformer	1		65	SFPRT22001K	Arm rest	1	
24-2	SFXW120-02	Washer for mounting plate	3		65-2	XNG26EBN	Nut for arm rest	1	
24-3	XTN3+8BFU	Screw for mounting plate	3		65-3	XWA26BFU	Spring washer for arm rest	1	
24-4	SFXW750-01	Washer for mounting plate	3		66	SFPAB13008K	Arm lift base assembly	1	
25	MPT-006	Transformer	1		66-2	XTN3+5BFU	Screw for arm lift base	3	
25-2	XYN4+C8FUS	Screw for transformer	2						
25-3	XNG4HFUS	Nut for transformer	2		68	SFCZV8800	Screw for cartridge	2	
26	SFGC827M01	Cushion rubber for transformer	3		69	SFPEV7800	Screw for cartridge	2	
27	SHE36	Cord holder	1		ACCESSORY PARTS				
28	SFGZ120-02	Clamping rubber for leadwires	5		A1	SFWE154A1	45 r.p.m adaptor	1	
30	SFDP130-01A	Circuit plate assembly	1		A2	SFW0010	Oil	1	
30-2	XTN3+8BFU	Screw for circuit plate	3		A3	SFKO135-01E	Overhang gauge	1	
31	SFKT130-01A	Variable pitch control knob	2		A4	SFNU150M01	Printed Matter (for U.S.A)	1	○
32	SFKT150-01A	Start lever	1	○	A5	SFNU150C01	Printed Matter (for Canada)	1	○
33	SFUM130-01	Neon lamp base	1		PACKING MATERIALS				
33-2	XTN3+8BFU	Screw for neon lamp	2		P1	SFHP150M01	Inside packing case	1	○
33-3	XTN3+6BFU	Screw for neon lamp	1		P2	SFHH130-04	Side pad (Front)	1	
34	SFUP150-03	Neon lamp holder	1	○	P3	SFHH130-05	Side pad (Rear)	1	
35	SFDN150-01A	Neon lamp assembly	1	○	P4	SFHH130-03	Accessory box	1	
36	SFDH028-01	Phono cable	1		P5	SFHD135-01	Magnet cover	1	
37	SFEL028-01E	Ground wire	1		P6	SFHK100-1	Pad, tone arm	1	
38	SFGT028-01	Cord clamper for phono cable	1						
39	SFER130-01	Terminal strip for phono cable	1						
39-2	XTN3+6BFU	Screw for terminal strip	2						
40	SFUP150-04	Clamper for AC power cord	1	○					
40-2	XTN3+8BFU	Screw for clamper	2						
41	SFUP150-05	Shield cover	1	○					
41-2	XTN3+8BFU	Screw for shield cover	4						
42-2	XTN3+8BFU	Screw for tone arm assembly	3						

COMPONENT PACKING PROCEDURE

