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AUTO LIFT UP TURNTABLE

KD-770D

INSTRUCTION MANUAL



KENWOOD

PRINTED IN JAPAN B50-5065-00 (E) (T)
67890N/455 D12345/555 67890N/556 □ 2345/656

Introduction

Your choice of this product indicates that you are a devotee to excellence in sound reproduction.

We appreciate your patronage and take pride in the long tradition of quality components, that our company represents.

So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system. This will acquaint you with operating features, and system-connection considerations, so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability, we have sought to anticipate your needs and desires.

Keep this manual handy for future reference.

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Before applying power

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Number _____

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

NOTE:

BEFORE YOU HOOK UP AND OPERATE YOUR SYSTEM, TAKE THE TIME TO READ CAREFULLY THROUGH THE FOLLOWING MANUAL.



Installation precautions

- Install the unit on a flat, vibration-free rigid table.
- Do not place the unit near a heat producing equipment such as a radiator. Avoid direct sunlight.
- The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- Do not store or use the unit in a dusty location or in a moist atmosphere. Select a location where air is well ventilated.
- Keep the unit away from a source of magnetic fields such as TV sets, speaker systems, radios or magnetized objects.
- Operate the unit on rated power supply voltage ($\pm 5\%$). Irregular power voltage will result in incorrect operation.

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Safety precautions

<p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p>	<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>
	<p>The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>
	<p>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>

AC voltage selection

This unit operates on 120 volts or 220-240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

- Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

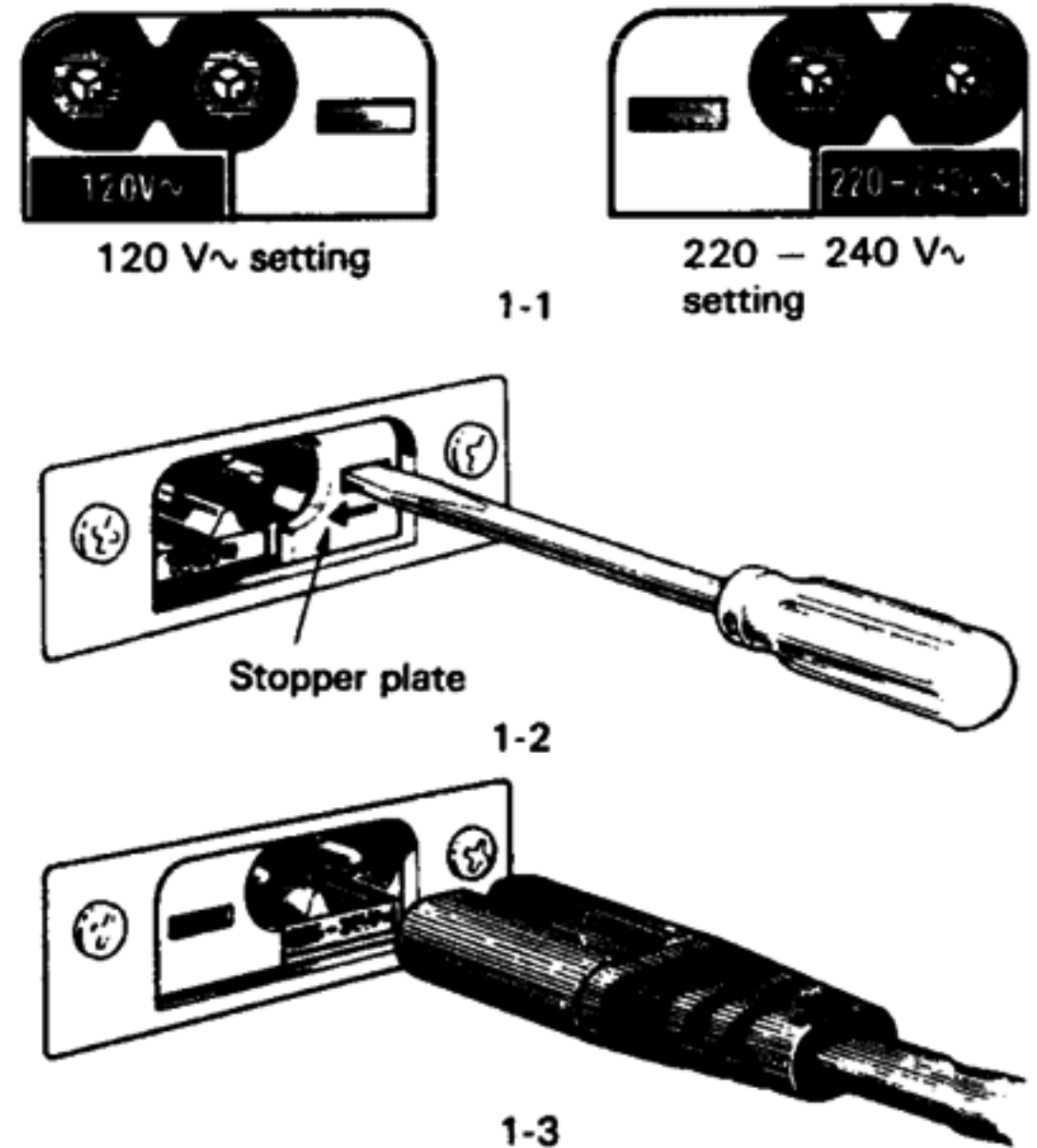


Fig. 1

1. Before plugging in this unit, make sure that the position of the AC voltage selector conforms to your line (mains) voltage. If not, it must be reset. See Fig. 1-1.
2. To reset the selector, slide the stopper plate to the opposite side with a screwdriver or other pointed tool. See Fig. 1-2.
3. Insert the power cord securely. See Fig. 1-3.

Parts nomenclature

- Check that the packing carton contains all the component parts shown in the figure below before you begin to assemble the turntable.
- See page 5 for assembly procedures.

Note:
Do not operate the motor without installing the platter and do not stop the rotating platter by hand for any length of time. Doing so will damage the turntable.

- You will find the smaller parts inside the polystyrene foam carton.

Head-shell assembly
[Head-shell body, Screws (10mm x 2, 15mm x 2, 20mm x 2), Washers x 2, Nuts x 2]:

45 rpm adaptor
Counterweight
Hexagonal bar wrench

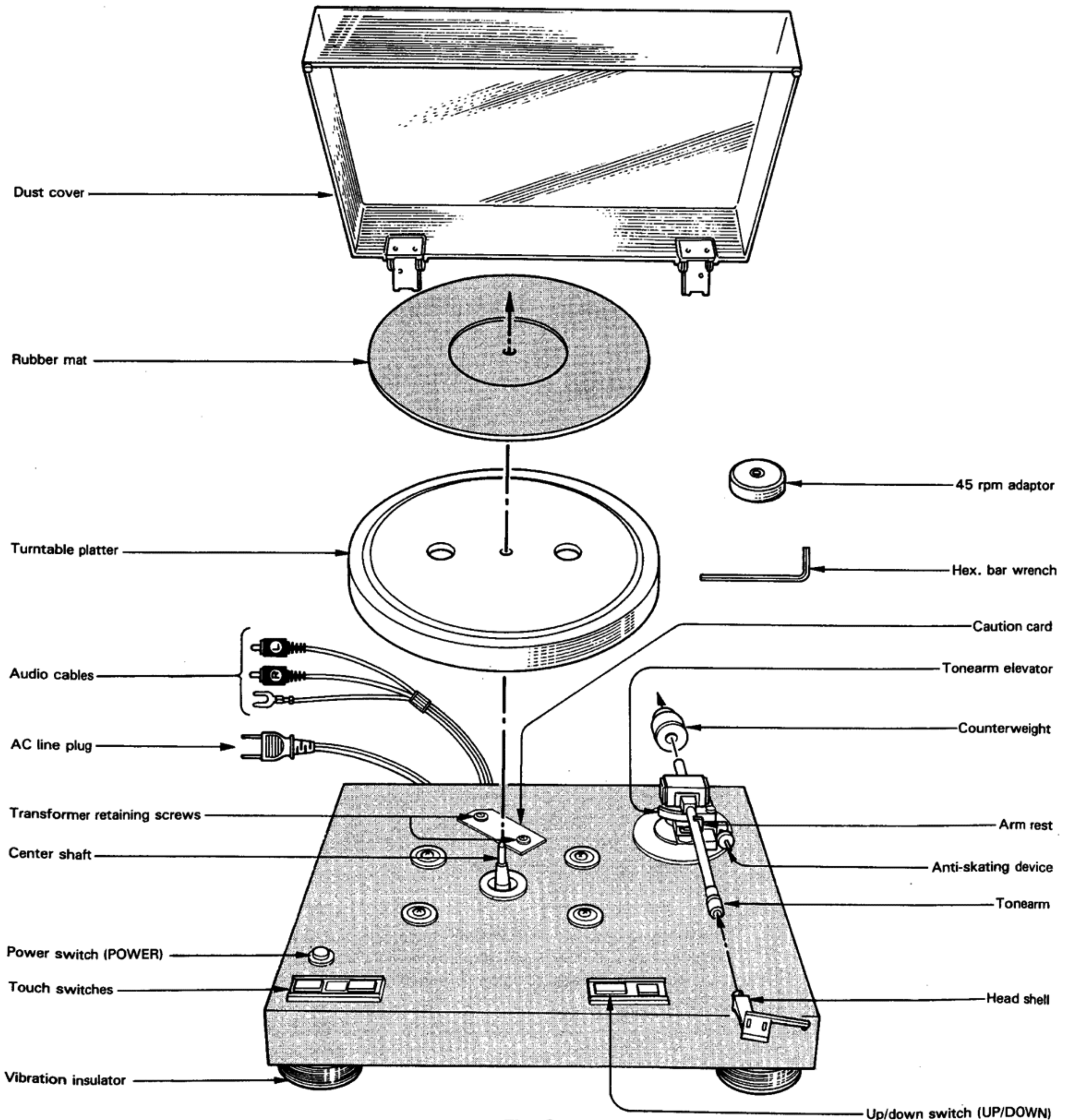


Fig. 2

Assembly

1. Remove transformer retaining screws with a (+) screwdriver. Keep these screws for future transportation.

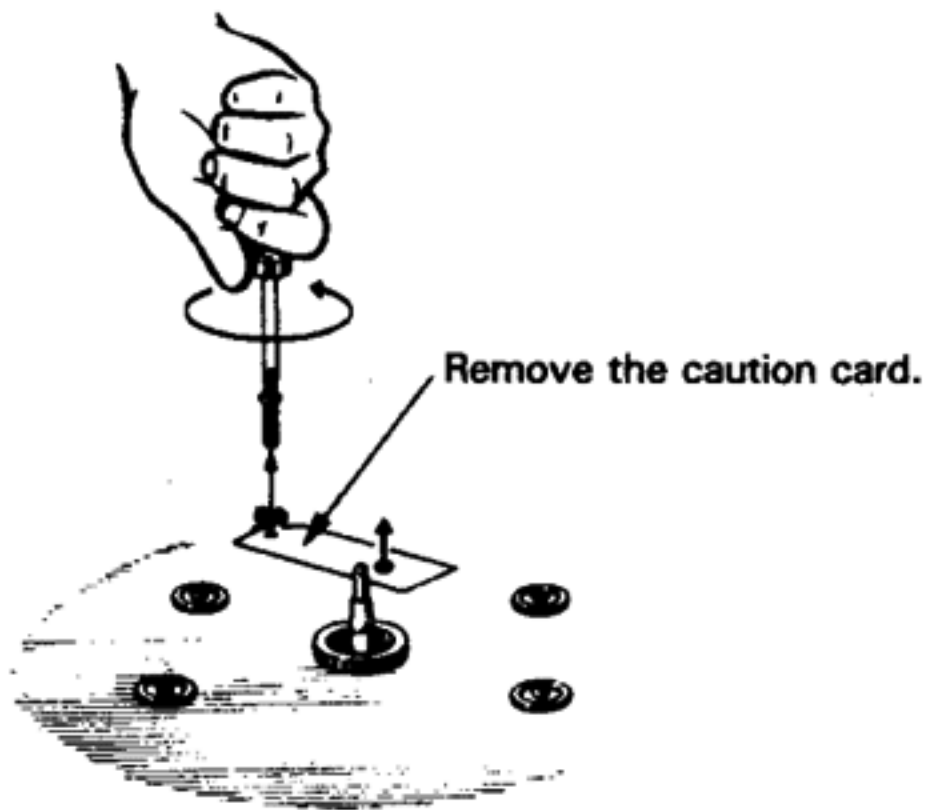
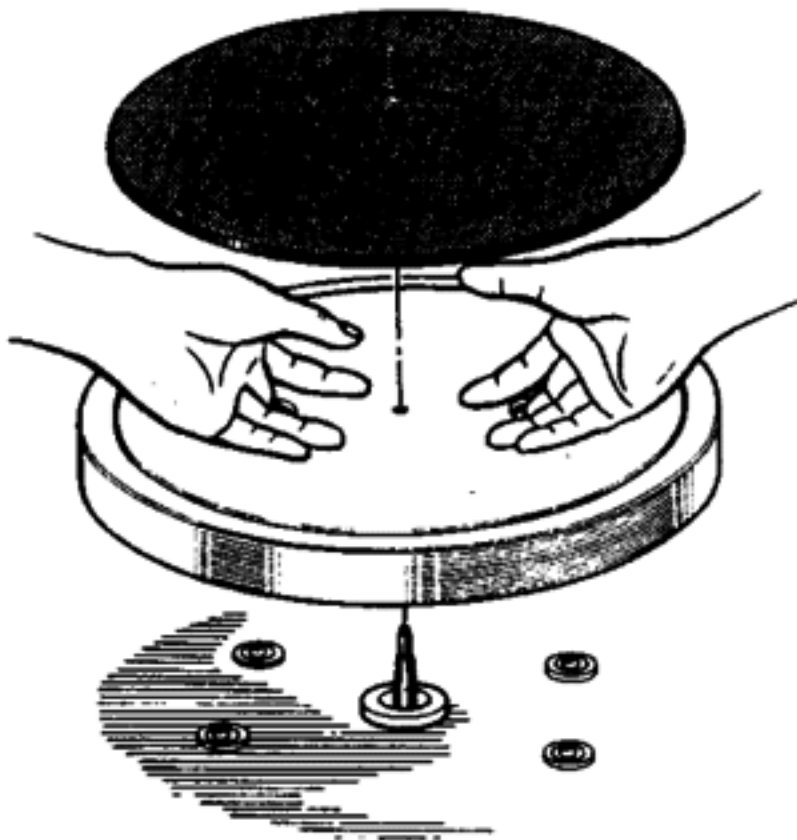


Fig. 3

2. Place the turntable platter and rubber mat on the center shaft.



Lower the platter gently.

Fig. 4

3. Attach the tonearm counterweight to the rear of the tonearm.

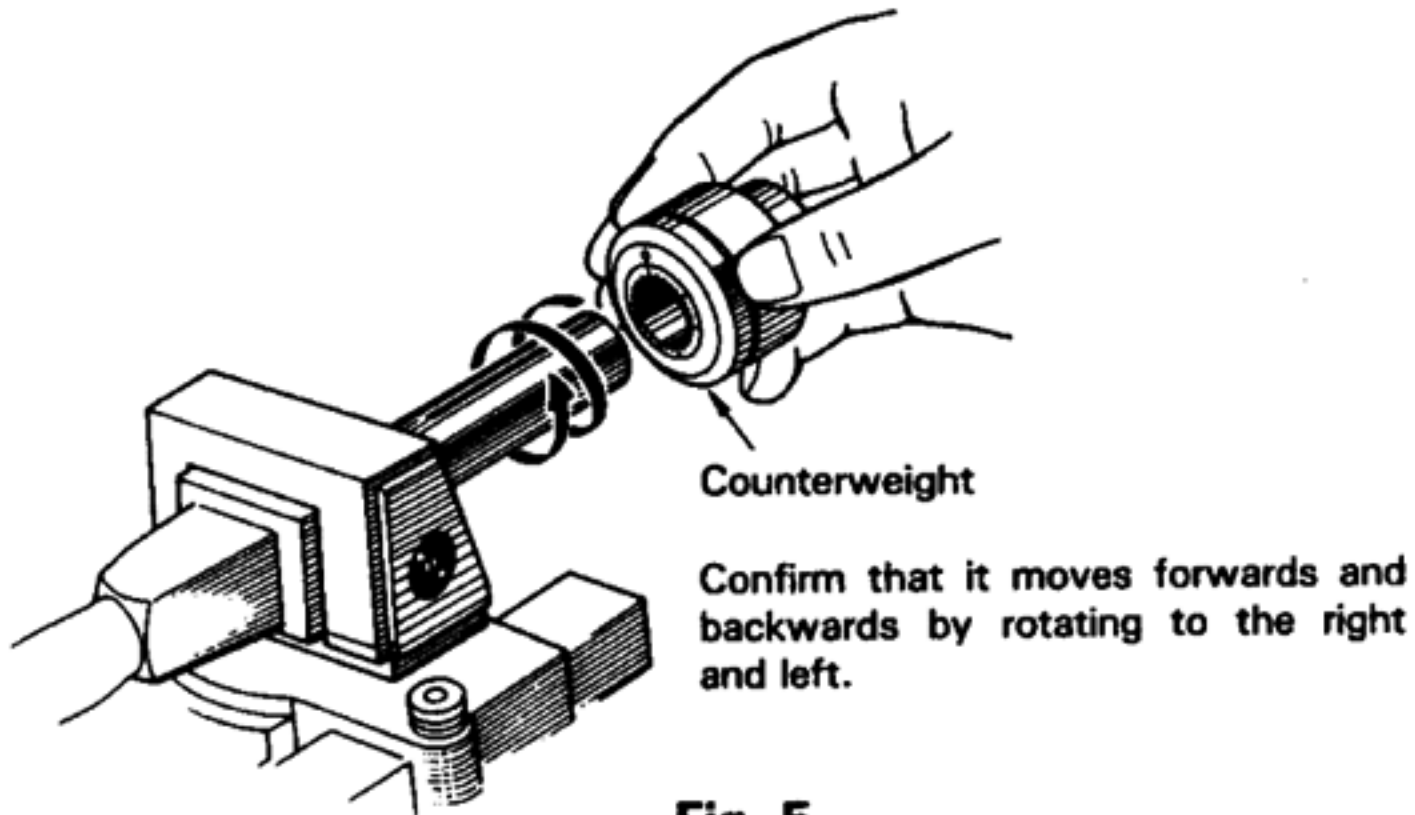


Fig. 5

4. Insert the plug-in head into the tonearm.

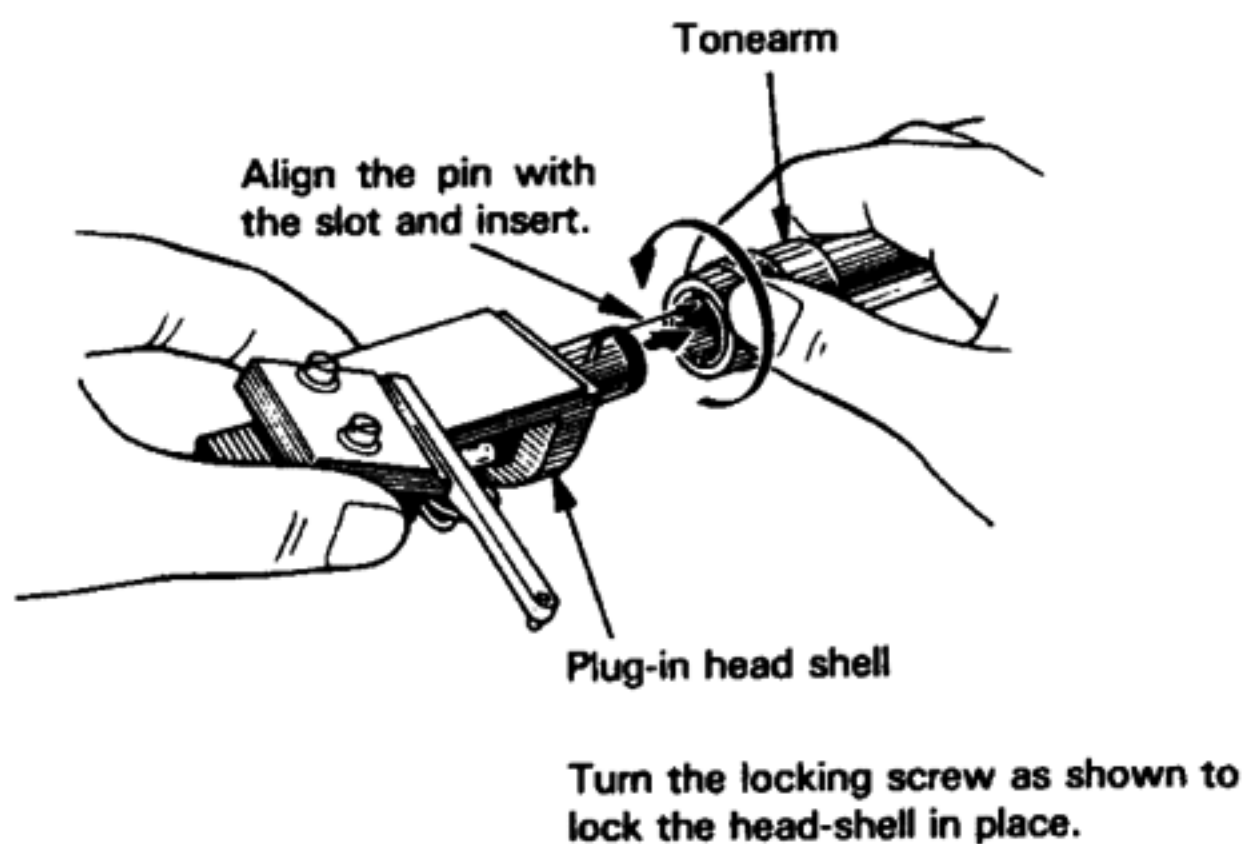


Fig. 6

5. Install the dust cover as shown below.

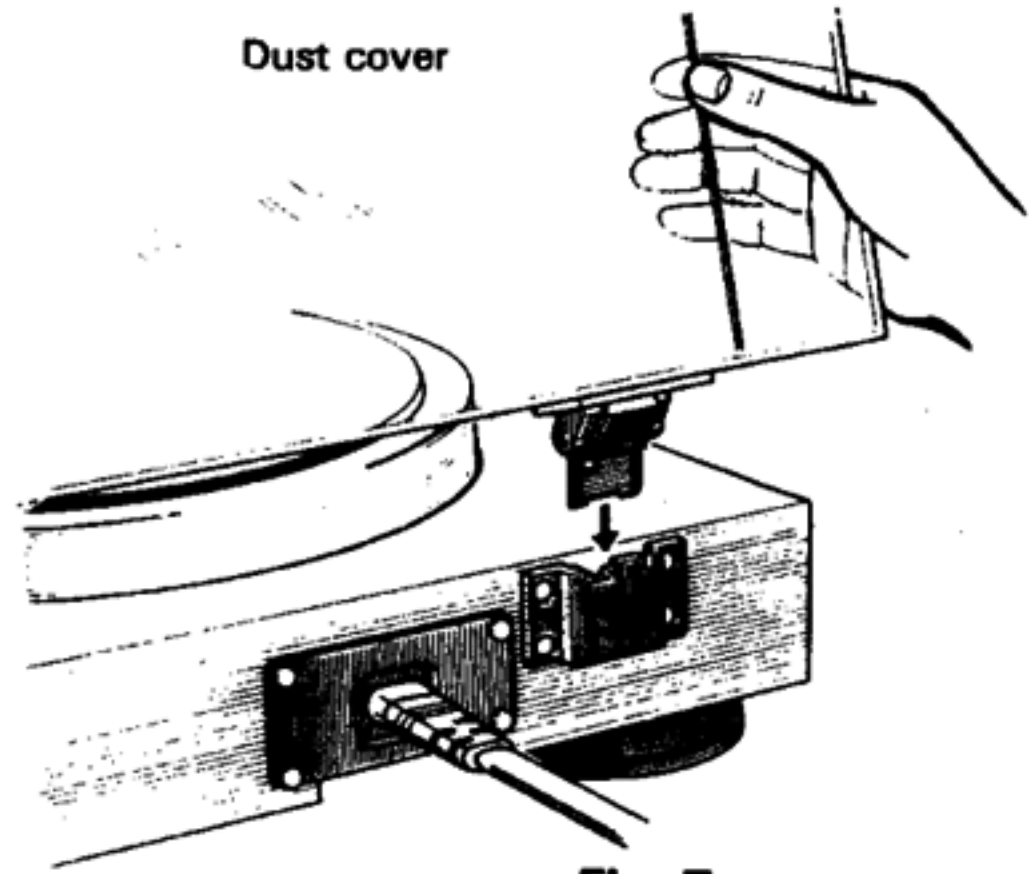


Fig. 7

6. Turn off the power to your amplifier or receiver. Connect the audio cables, then the AC cord.

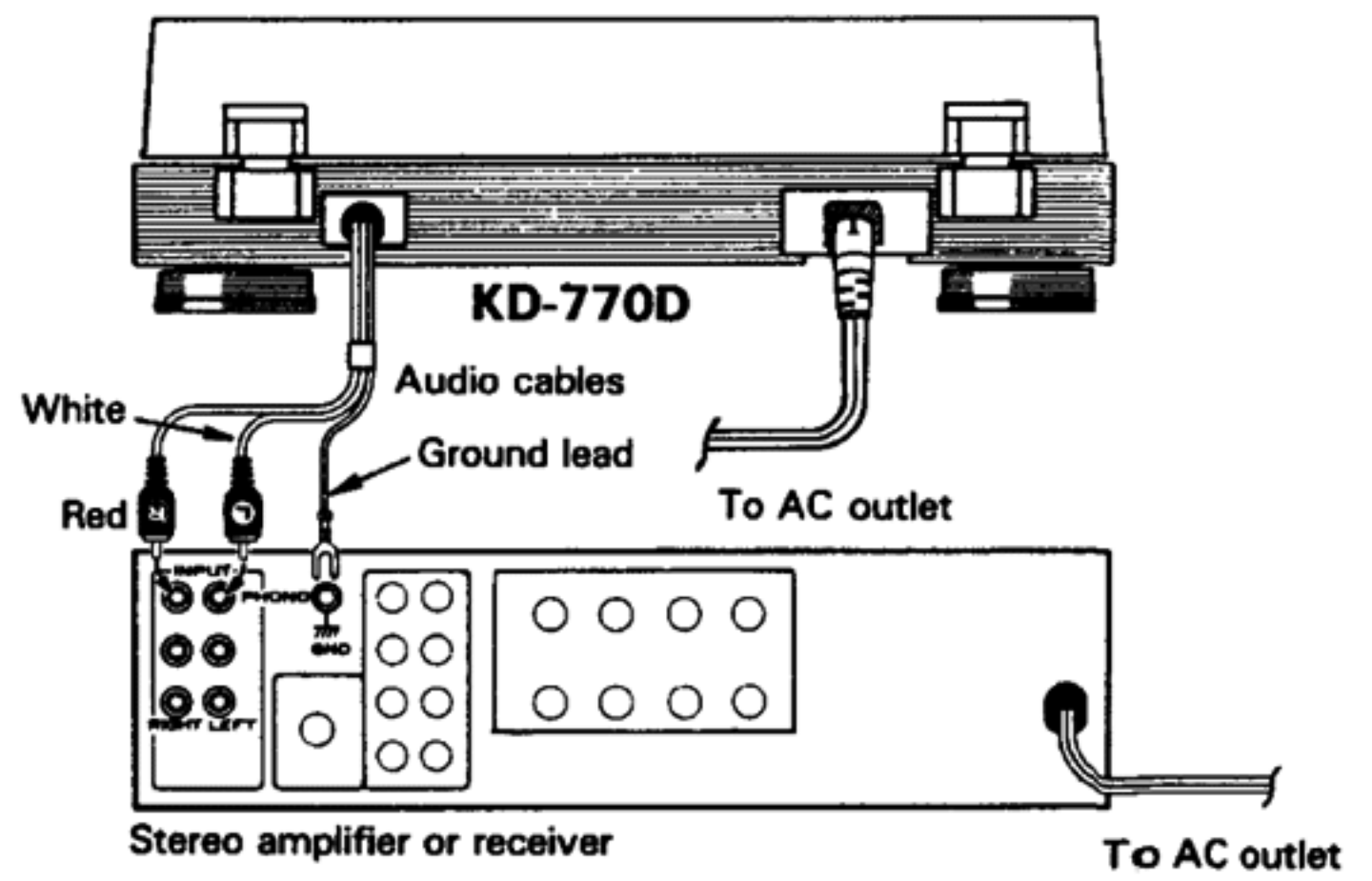


Fig. 8

Note:

When connecting an MC head amp, connect the GND cord of the KD-770D to the GND terminal of the head amp. Direct connection of the GND cord to the GND terminal of the amplifier or the receiver will sometimes generate noise.

7. Remove the plastic protector before operating this turntable.

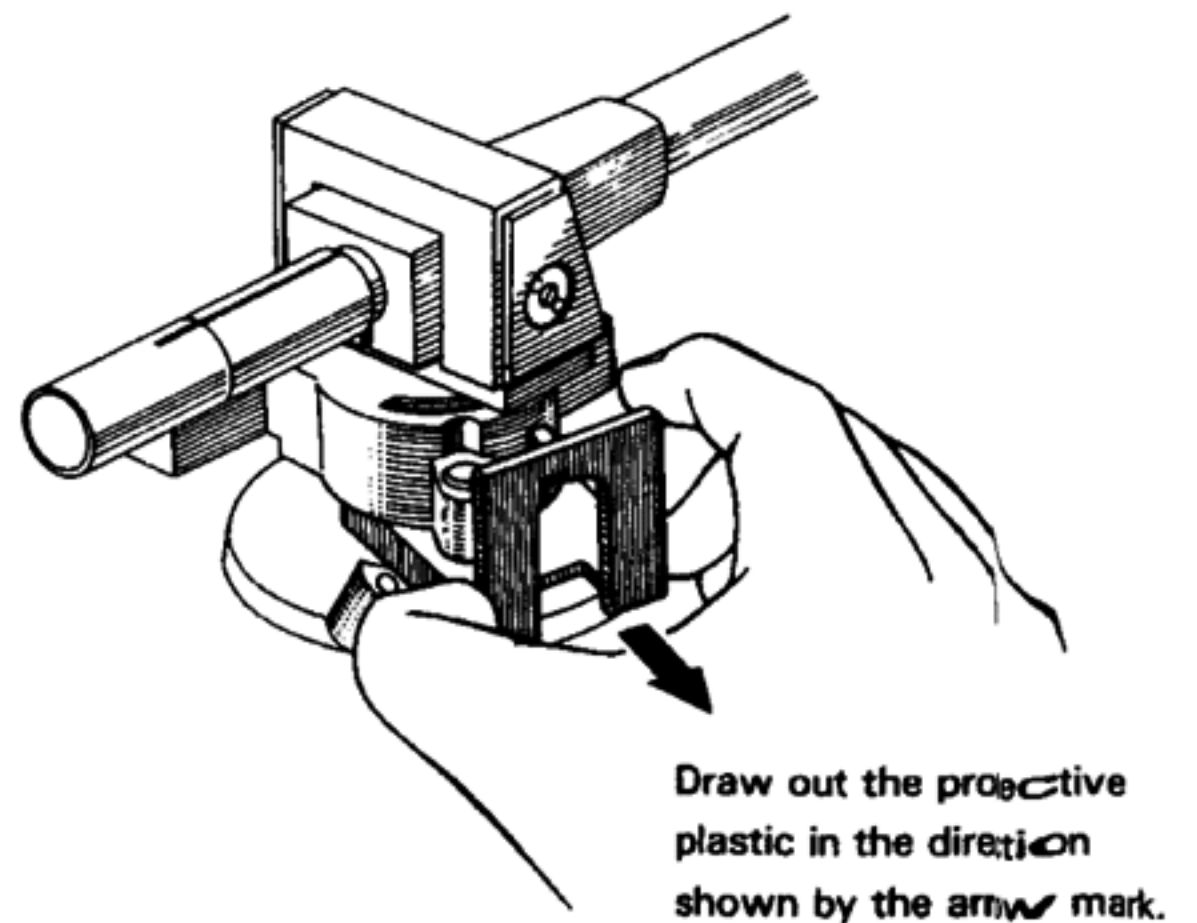


Fig. 9

Notes:

The plug-in head can be mounted or removed after completing the following:

- Clamp the tonearm on the rest.
- Turn amplifier volume control to 0 or the power switch to OFF.

Attaching the cartridge

- This unit is sold without a cartridge. The following shows how to install the cartridge of your choice. The supplied head-shell will accept all commercially available cartridges.

1. Carefully insert the connectors of head-shell leads onto the appropriate pins of the cartridge. Refer to Fig. 10 for lead colors. Use tweezers or long-nosed pliers to handle the connectors.
- The weight of the cartridge varies for the model. In this model, the total weight of the cartridge and head shell should be 12 — 22 g. (The weight of the supplied head shell is 10 g.)

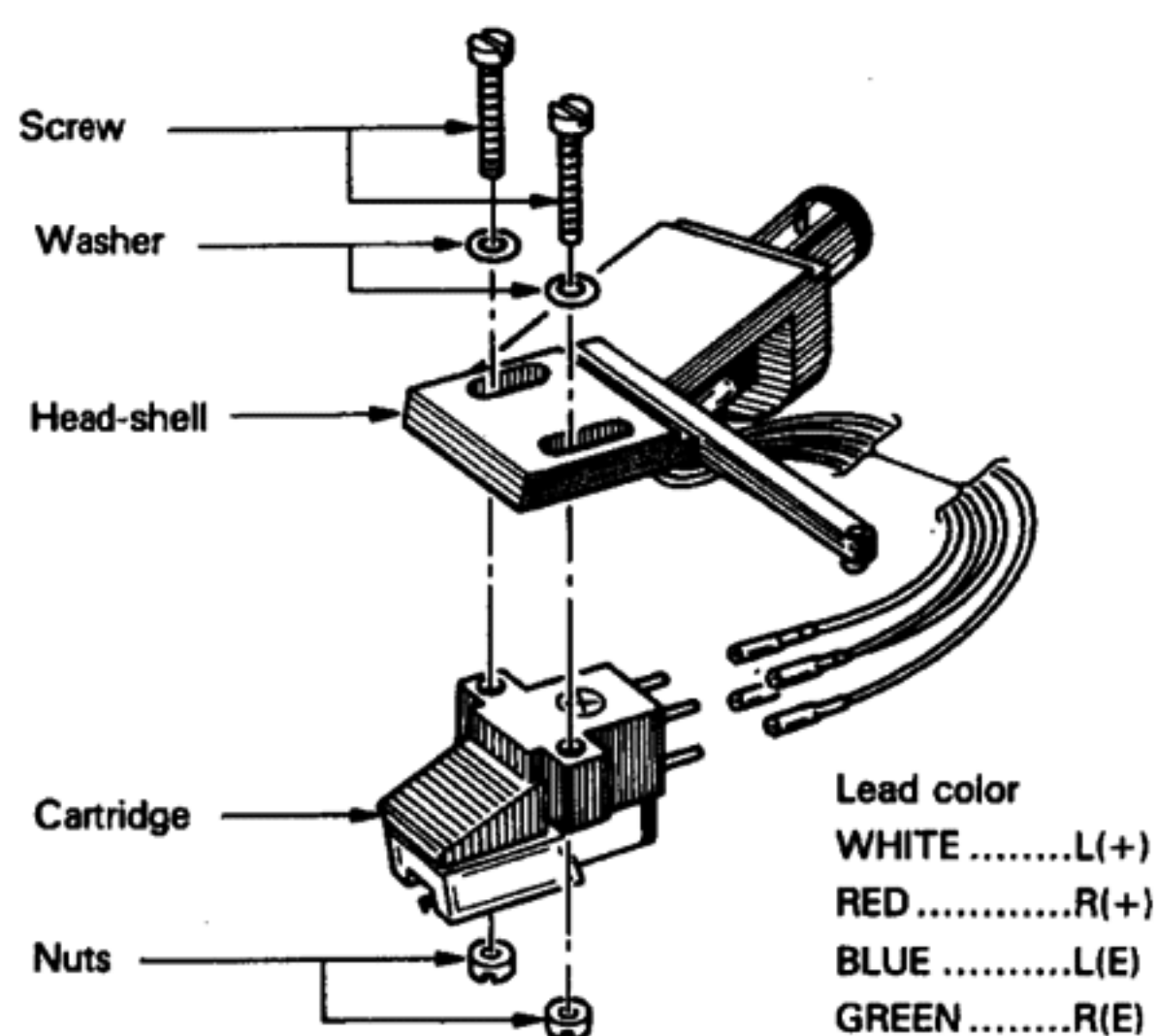


Fig. 10

2. Attach the cartridge to the head-shell with the screws, washers and nuts, but do not tighten the screws. Next you must make the overhang adjustment as follows:

The figure below shows the head-shell and cartridge and correct position. Adjust your cartridge to the head-shell accordingly, and lock it in place by tightening the screws securely.

- Use belonging screws of proper length to fasten cartridge.

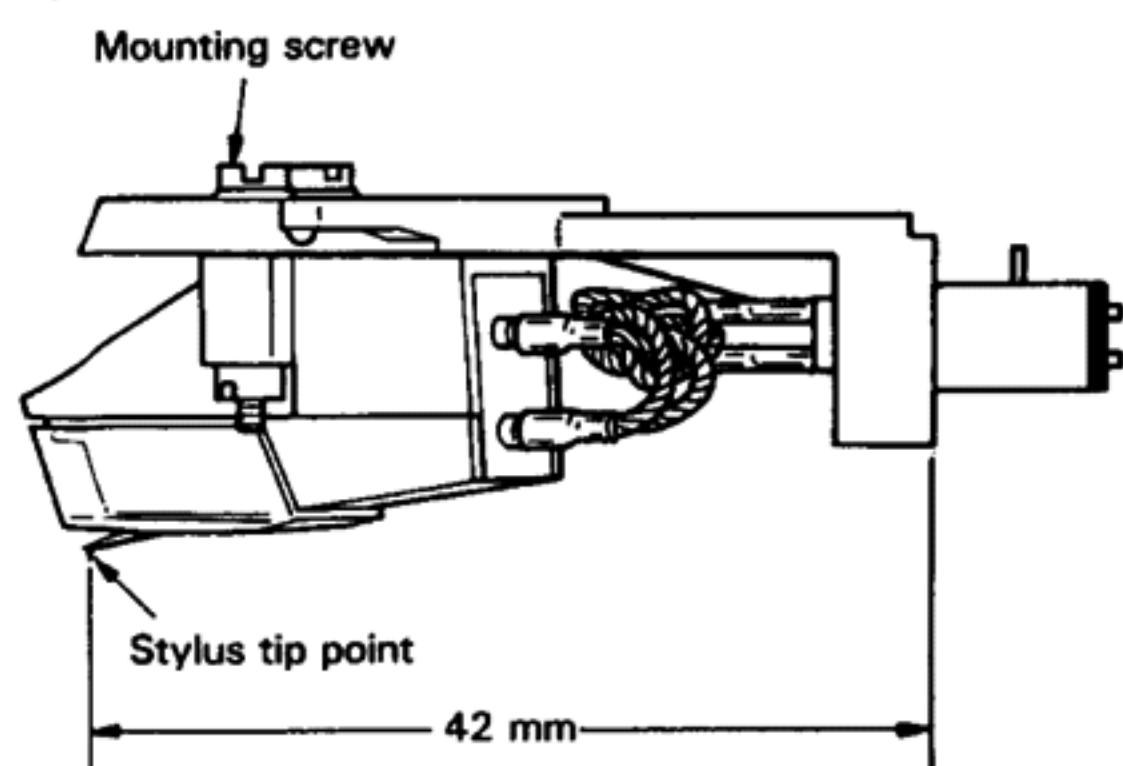


Fig. 11

3. Plug the head-shell with the cartridge into the tonearm and readjust tracking force as explained on page 6 so that it conforms to the cartridge manufacturer's recommendation.

Adjusting tonearm

Adjusting stylus pressure

1. Turn the power on and press the UP/DOWN switch. The platter does not rotate and the tonearm elevator lowers.
2. Set the anti-skating weight to the 1 g position and free the anti-skating bar.
3. Move the tonearm away from the arm rest. Using the head-shell finger, shift the tonearm to the middle between the arm rest and platter. In this condition, tonearm balance adjustment is easy. Still supporting the head-shell, turn the counter-weight so that the tonearm is balanced.

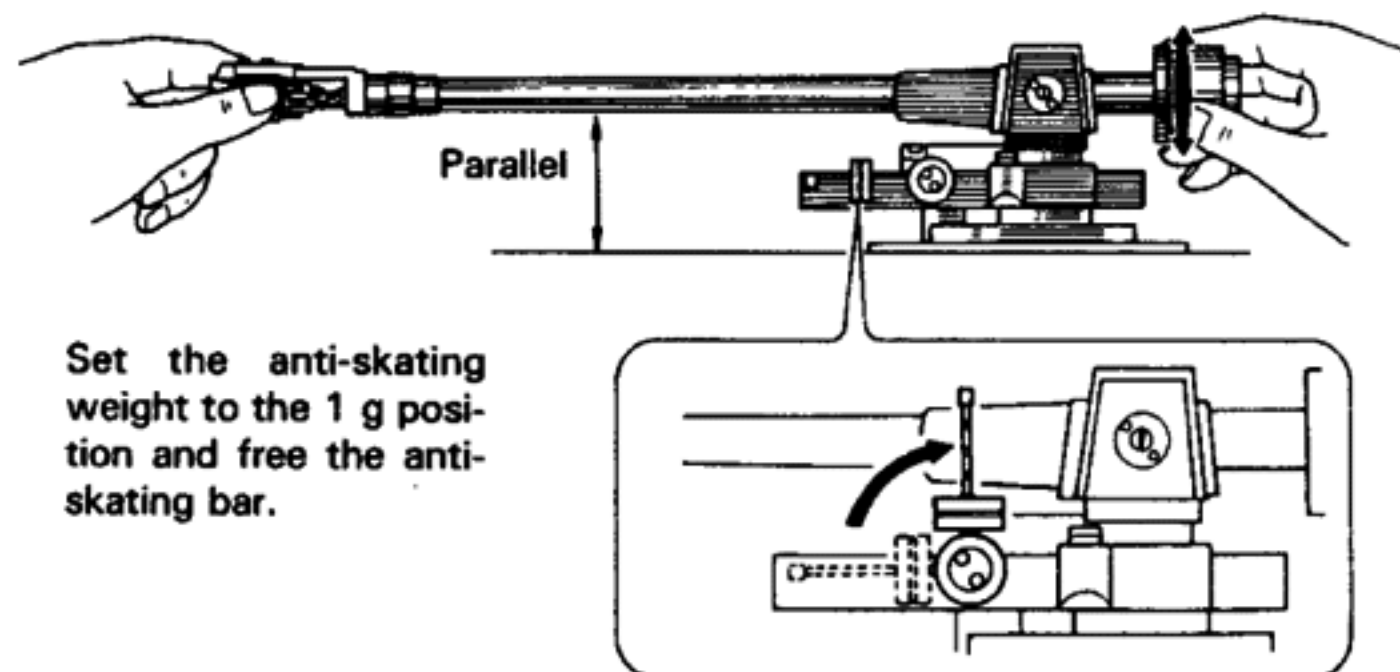


Fig. 12

4. Return the tonearm to the arm rest and set only the counter ring to 0.

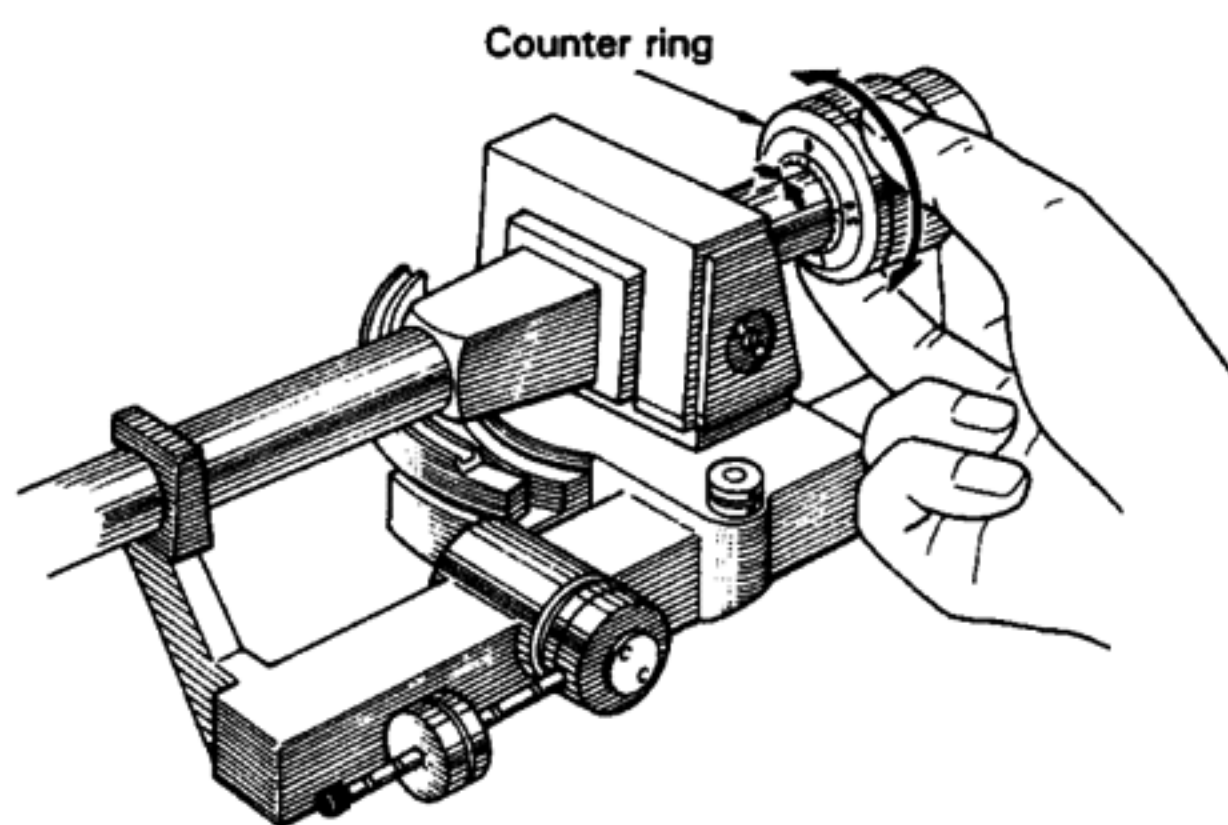


Fig. 13

5. Turn the counterweight clockwise and adjust the stylus pressure to the specified value.

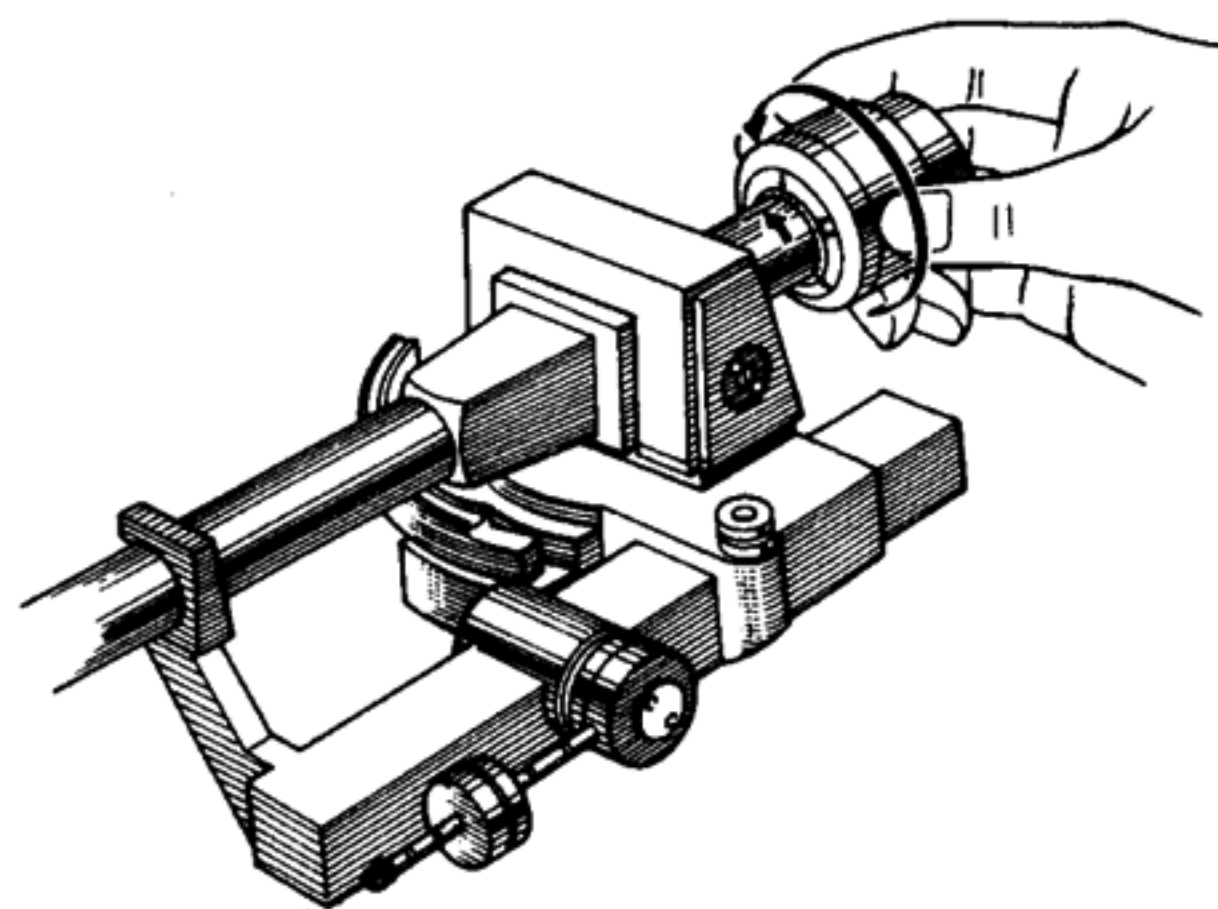


Fig. 14

Record playback

- Adjust the anti-skating force to the same value as the stylus pressure.

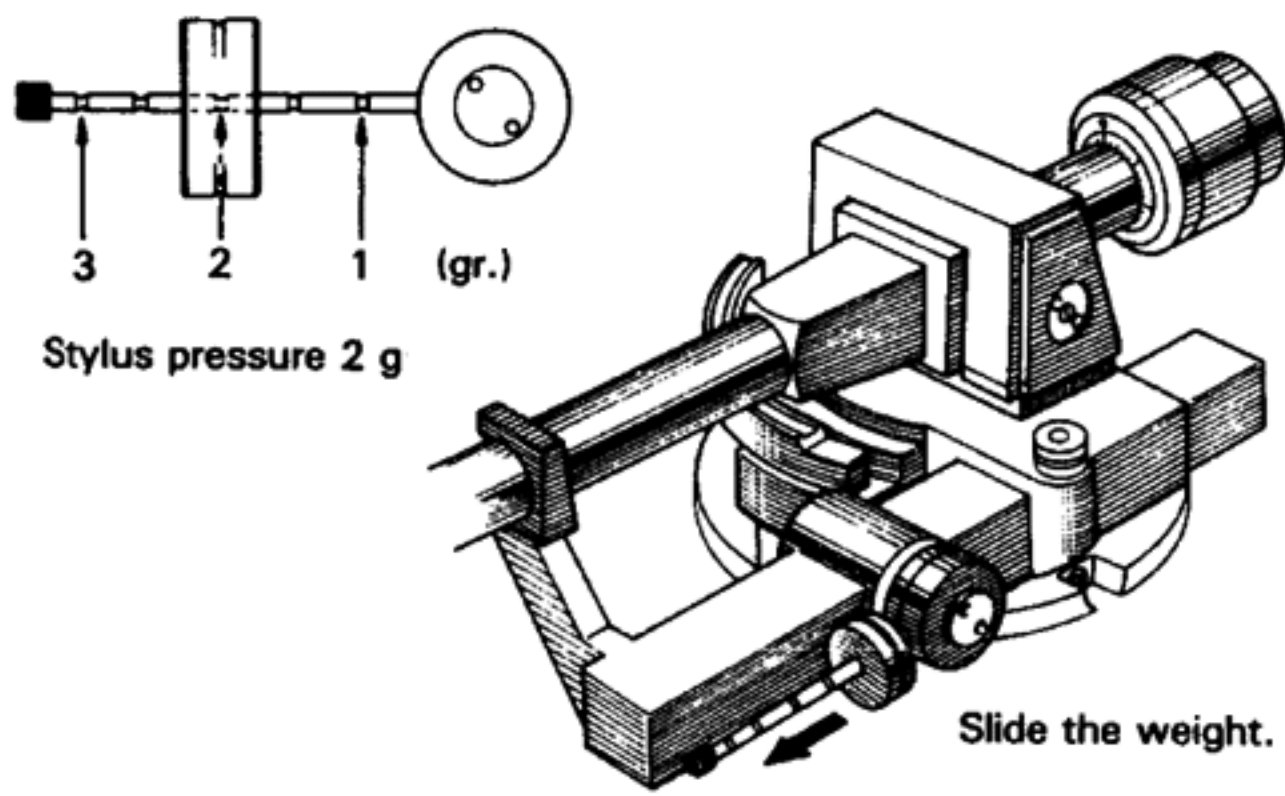


Fig. 15

- Press the UP/DOWN switch and return the tonearm to the tonearm rest.

Adjusting tonearm height

- Place record onto the platter.
- Turn the power on and press the UP/DOWN switch. After the arm elevator lowers, carefully lower the stylus onto the record.
- Sight the parallelism between record surface and tonearm and check the tonearm support height. Return the tonearm to the arm rest.
- Hold the arm base with your left hand as shown in Fig. 16 and loosen the 2 tonearm height adjusting screws with the hex. bar wrench supplied.
- Referring to the arm base gauge (graduation: 2 mm), adjust the tonearm height so that the tonearm is parallel to the record surface and tighten the 2 tonearm height adjusting screws.
- Lower the stylus onto the record and check the parallelism. (If the tonearm is still not parallel, repeat steps 4 and 5)
- Press the UP/DOWN switch to rise the tonearm and return the tonearm to the arm rest.

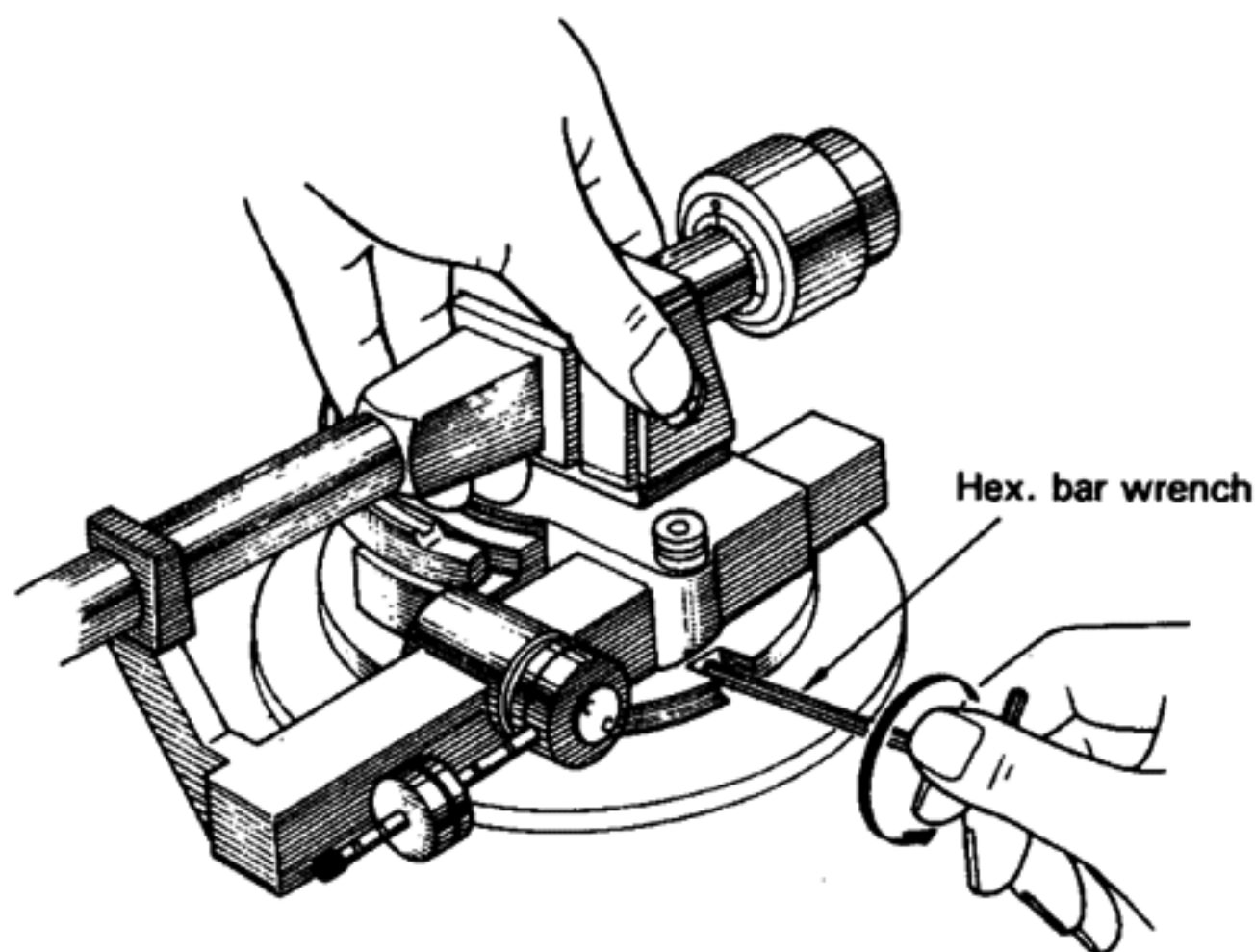


Fig. 16

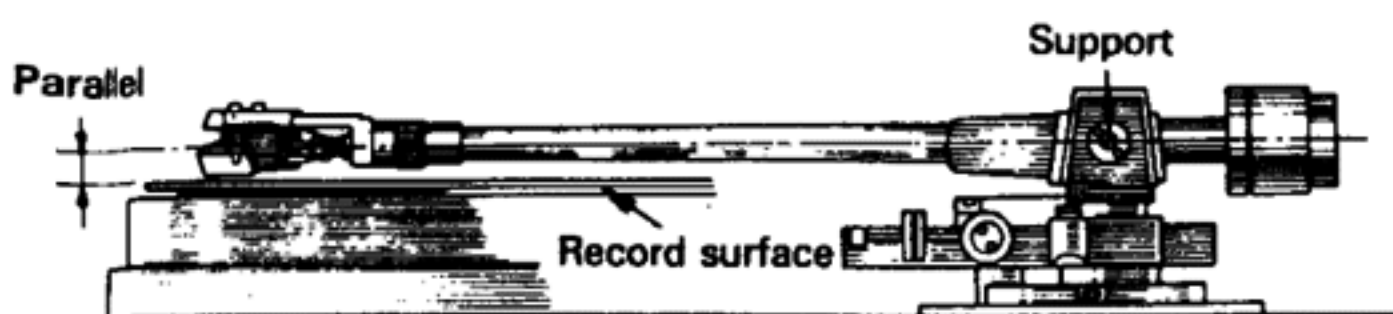


Fig. 17

- Check the stylus pressure, the connections between the turntable and amplifier, and the control position of the amplifier.
- Set the POWER switch to ON. The speed indicator (33) lights up.
- Place record onto the platter. To play an EP record, use the EP adaptor supplied.
- To play at 45 rpm, press the SPEED selector switch. The speed indicator (45) lights up.
- Using your finger, move the tonearm away from the arm rest and shift it to the lead-in groove of the record.
- Press the START/STOP switch. The platter starts to rotate. When the platter speed stabilized, the QUARTZ LOCK indicator lights up. Press the UP/DOWN switch, the stylus descends onto the record and playback starts.
- When record playback is completed, the arm elevator raises the tonearm, the stylus tip moves away from the record and the platter stops.
- Return the tonearm to the arm rest and set the POWER switch to OFF.
 - To suspend or stop playback, press the UP/DOWN switch. The tonearm automatically rises from the record. To resume playback, press the UP/DOWN switch. The stylus tip descends onto the record surface and playback restarts at virtually same place.
 - Immediately after the POWER switch is set to ON, turntable operation is unstable. Do not operate the turntable immediately after power on.

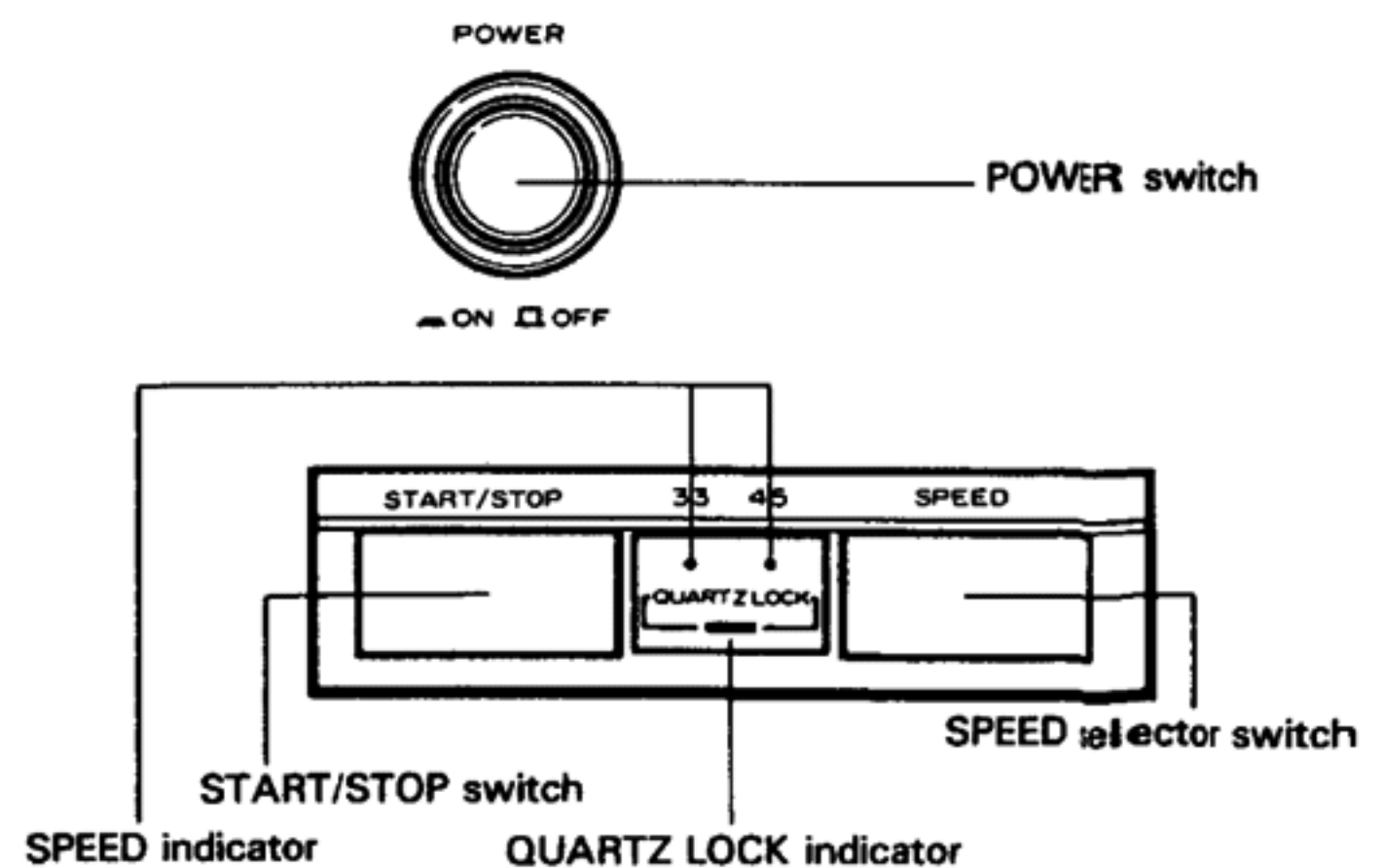


Fig. 18

Maintenance

Cleaning the cabinet and dust cover

Clean the cabinet and dust cover gently with a dry cloth or silicone cloth. In case of stubborn soil, wipe with a cloth dampened in soap suds or mild detergent and well wrung out.

Never use thinner, alcohol, benzine or other volatile liquids.

Motor lubrication

The motor employs permanently-lubricated bearings. It will operate for more than 20,000 hours without attention to lubrication.

Periodic check-up

Because a turntable is a mechanical device it is subject to the effects of wear and misadjustment that occurs due to normal handling. Even if your unit appears to function normally, a periodic check-up at intervals of two years or so is recommended to ensure a long service life and proper operation.

Check with your dealer or authorized service representative.

Stylus life

The stylus point is very delicately made and it should be handled with great care. Dust accumulating at the tip should be removed with a soft brush by brushing off lightly. A stylus is good for playing a 30 cm (12 inch) LP record about 500 times, but this varies greatly depending on how it is used.

A worn stylus will cause treble tones to increase in harshness. The stylus should be replaced as soon as this becomes noticeable. This will prevent record wear.

Transport notes

When the unit must be moved to another place because of a change of residence, etc., it should be correctly packed in the packing materials furnished at the time of purchase. Even if these packing materials have been discarded, the unit must be disassembled into **the turntable, the counterweight, the plug-in head (head-shell + cartridge) and the dust cover**. These components should be packed separately for transport.

In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Correction
The SPEED indicator (33) does not light up at power on.	Power cord is disconnected.	Connect the power cord to the AC outlet.
No sound from both left and right channels or one channel.	1. Turntable output cable or cables disconnected. 2. Poor connection of head-shell connector. 3. The input selector switch of the amplifier is not set to PHONO.	1. Check connections to amplifier. 2. Install the head-shell in the tonearm correctly. 3. Set the input selector switch to PHONO.
The bottom of the cartridge comes into contact with the record surface.	The tracking force is too large.	Readjust the tracking force.
Loud hum, no music.	1. Poor connection of turntable output cables. 2. Poor plug-in head connection.	1. Make solid connections to amplifier. 2. Make solid connections.
Loud hum with music.	1. Turntable output cable picking up hum from AC cord. 2. The ground wire of the turntable is not connected to GND terminal of the amplifier.	1. Separate output cables from AC cord or reverse AC cord plug. 2. Connect the ground wire to the GND terminal of the amplifier. (With some cartridges, this is not necessary.)
Buzzing noise with music.	Turntable output cable picking up TV signal.	Relocate output cord for minimum pickup.
Howling drowns out music when volume is increased.	Speaker vibration is picked up by turntable.	Separate turntable from speakers.
Turntable platter does not turn.	Poor AC plug contact.	Check connection. Make sure AC outlet is active.
Poor tracking.	1. Excessive dust on record or stylus. 2. Tracking force is too light or heavy.	1. Remove dust from stylus or record. 2. Adjust the tracking force to the specified value.

Specifications

Motor and turntable

Drive System	Direct-drive system
Motor	Quartz PLL core & slotless DC servo motor
Turntable Platter	33 cm (13") diameter Aluminum alloy, Die-cast
Speeds	2 speeds, 33-1/3 and 45 rpm
Wow & Flutter	Less than 0.02% (WRMS) Less than 0.008% (Direct read-out) Less than 0.03% (DIN)
Rumble	DIN weighted better than -80 dB DIN unweighted better than -55 dB

Tonearm

Type	Static-balance type, Straight tubular arm
Effective Tonearm Length	245 mm
Overhang	15 mm
Tracking Error	+1.8° to -1.0°
Tracking Force Range	0 to 3 grams (0.1 g Step)
Usable Cartridge Weight	2.0 to 12 grams (with supplied head-shell)

Miscellaneous

Power Requirements	AC 120 V, 60 Hz: U.S.A. and Canada Models, AC120/220-240 V, 50/60 Hz (Switchable): Other countries
Power Consumption	22 watts
Dimensions	W 490 mm H 162 mm D 410 mm
Weight	11.7 kg
Supplied Accessory	45 rpm adaptor, Hexagonal bar wrench

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.
