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*Yamaha Hi-Fi Stereo*

**STEREO TURNTABLE**

**YP-800**



**Owner's Manual**

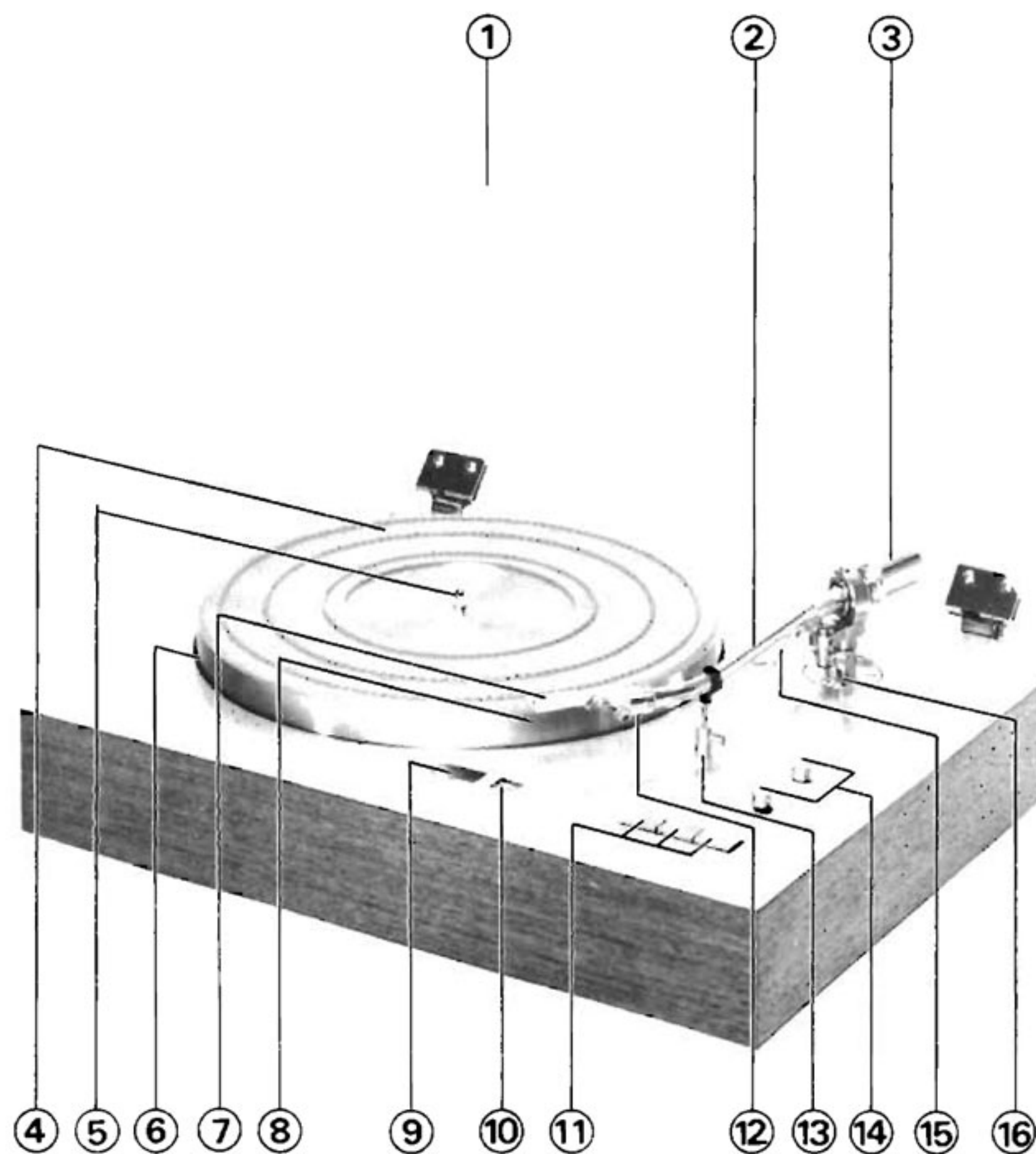
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Be sure to fully read the instructions in this manual before attempting to operate your YP-800. Most audio repairs are necessitated by faulty operation when the unit is first used, so avoid delay and disappointment by making sure all connections and adjustments are properly completed **BEFORE** you plug in the power cord.

Be particularly careful of the following points:

- Use the set only in an area which has the voltage for which the set has been adjusted.
- Protect the YP-800 from heat and direct sunlight.
- Do not place the set on or in front of your speakers, for it will pick up vibrations and cause howling.
- Be sure the set is on a solid support, so that it is not affected by room vibrations.

- It is best to place the YP-800 to the **RIGHT** if it is lined up alongside the amp to which it is connected. This will help to keep the cartridge as far as possible from the amplifier's transformer, reducing the danger of hum.
- Clean the cabinet with a dry or slightly damp cloth only. Never use thinner or petroleum-based products.
- Clean the dust cover with a soft cloth.



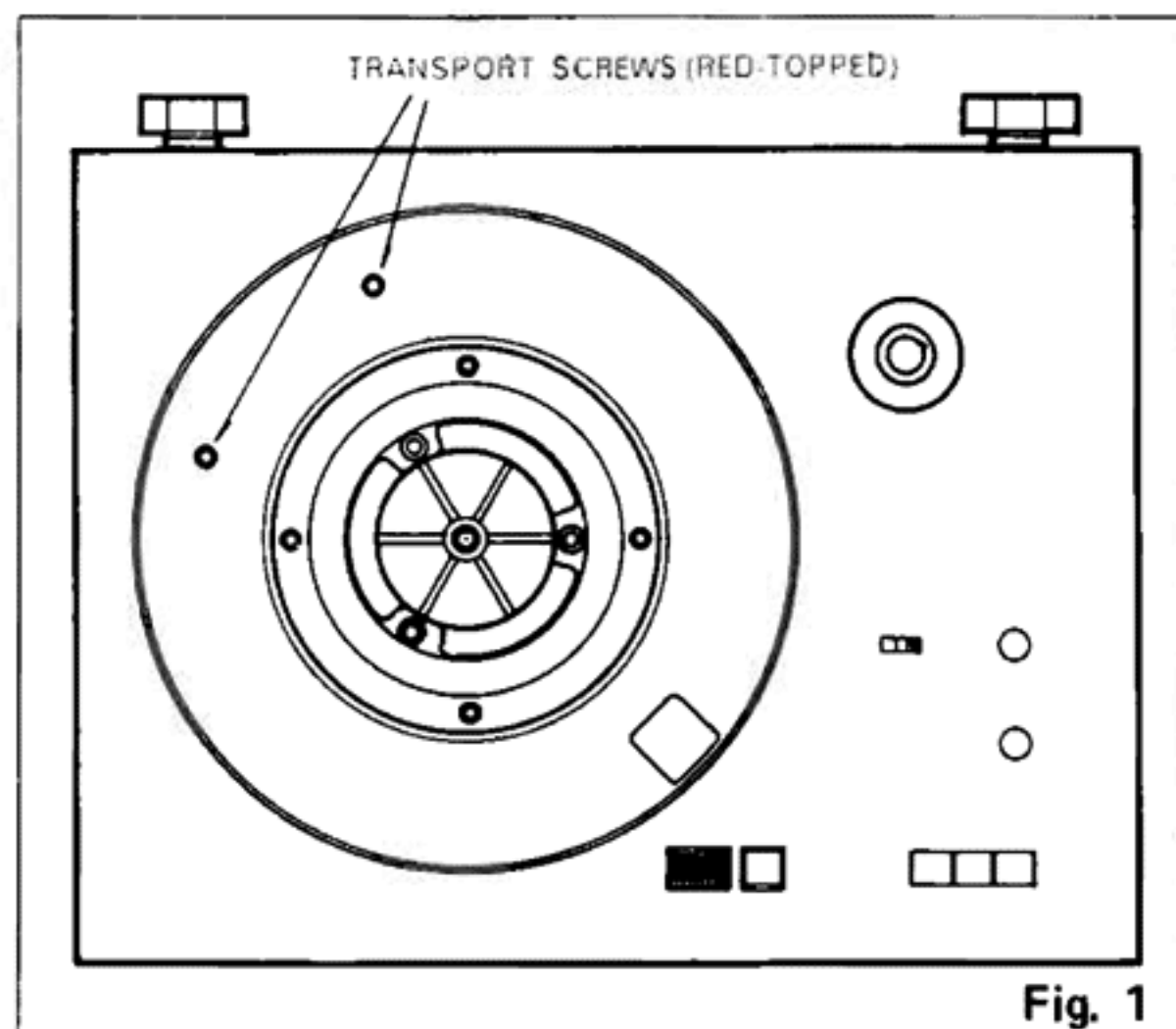
- ① SMOKED ACRYL DUST COVER
- ② TONEARM
- ③ MAIN WEIGHT
- ④ PLATTER PAD
- ⑤ CENTER SHAFT
- ⑥ PLATTER
- ⑦ HEAD SHELL
- ⑧ CARTRIDGE (not included with the YP-800)
- ⑨ STROBOSCOPE
- ⑩ BUBBLE LEVEL
- ⑪ CONTROL BUTTONS
- ⑫ HEAD SHELL LOCK NUT
- ⑬ ARM REST
- ⑭ SPEED CONTROL KNOBS
- ⑮ ANTI-SKATING MECHANISM (Refer to P.9)
- ⑯ ARM LIFTER
- ⑰ TRANSPORT FIXING SCREWS (Refer to P.4)



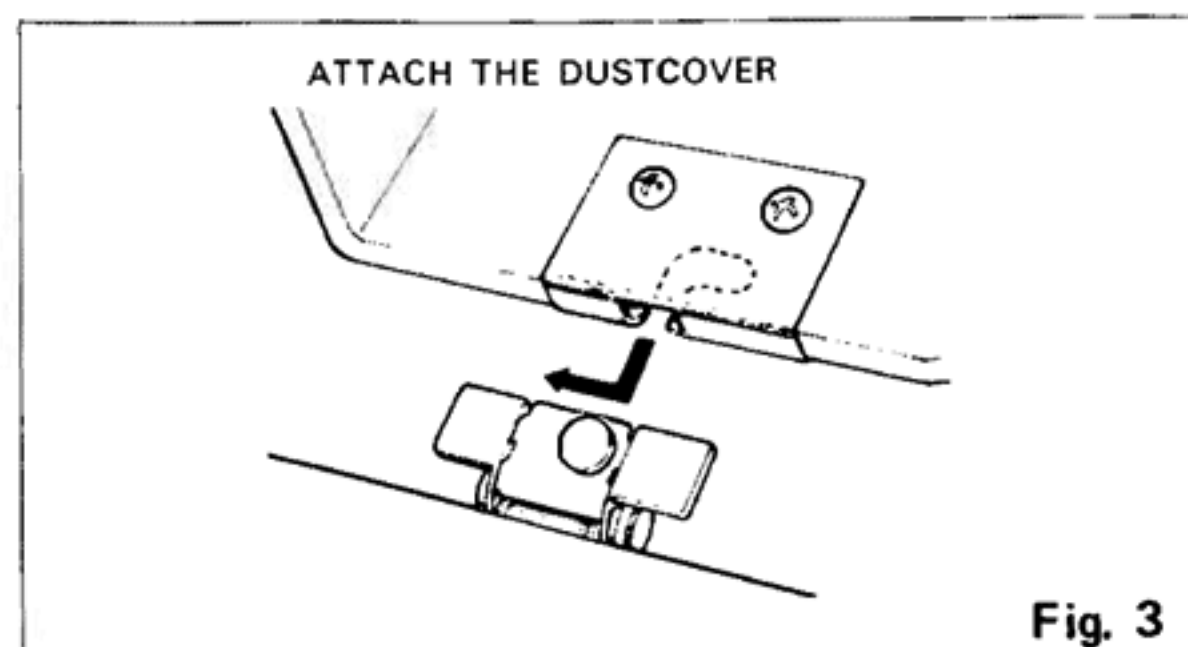
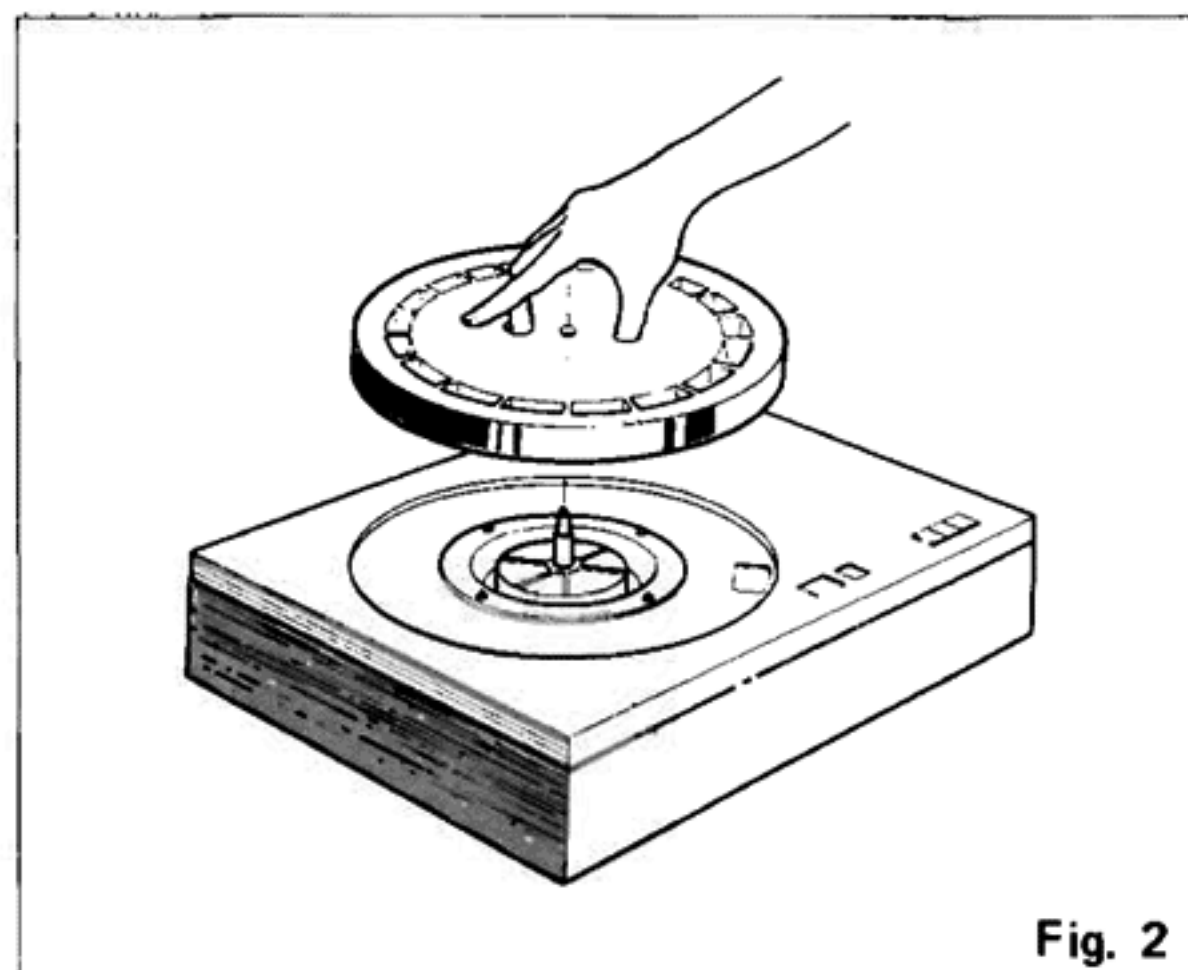
## SETTING UP THE YP-800

First remove the two transport screws (red-topped) with the (+) screwdriver. These screws keep the suspension from being damaged by vibrations during transport, and must be removed before playing. See Fig. 1.

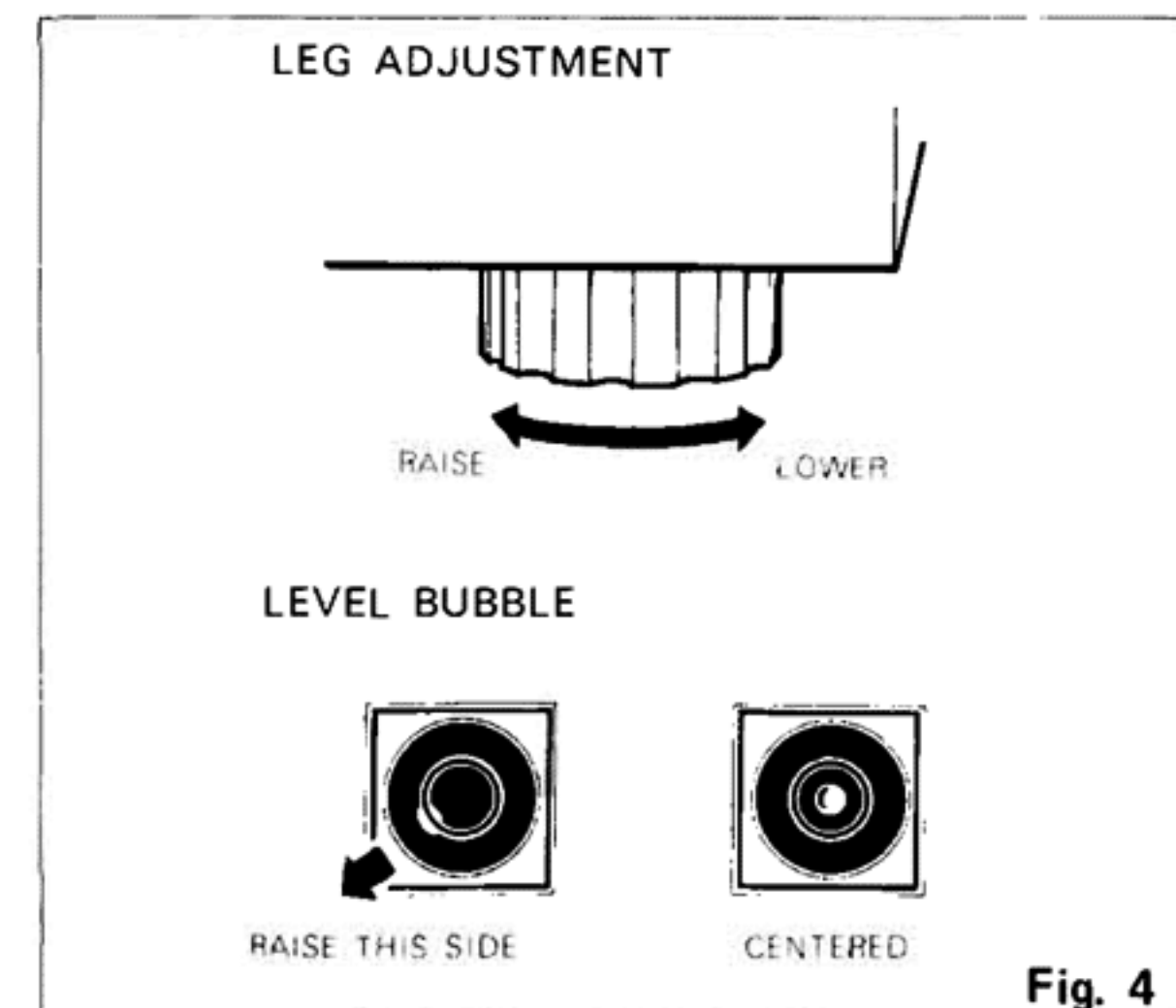
Be sure to save the screws for reinstallation when you move the set.



Next, attach the turntable platter by slipping it onto the center shaft. Hold the platter by slipping your fingers into the holes near the center. See Fig. 2. After the platter is in place, add the pad. Attach the dust cover. Snap the male and female parts together and push in the direction of the arrow as shown in Fig. 3.

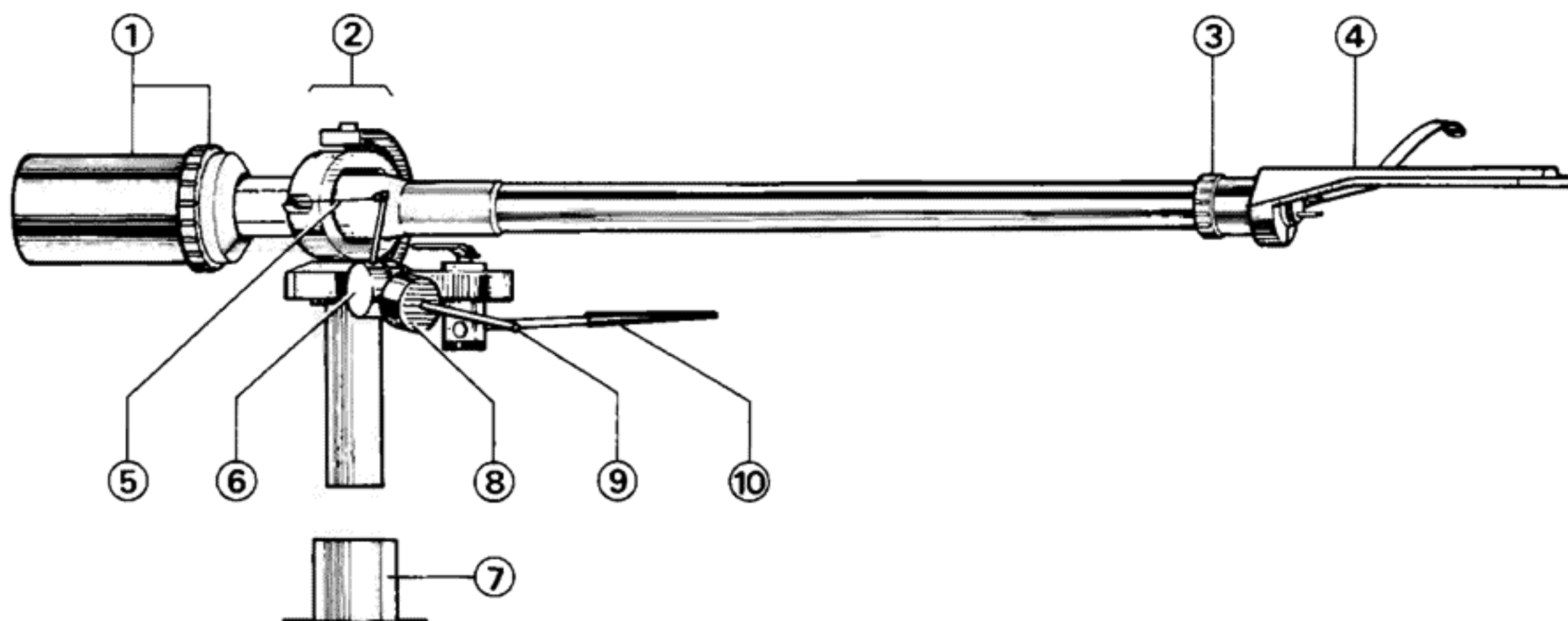


Finally, adjust the set so that it is perfectly level, once you have selected the location. Each leg is adjustable. Turn clockwise to raise its height, counter-clockwise to lower it (see Fig. 4). Adjust each leg until the bubble is in the exact center of the inner circle. This is necessary for top performance.



# TONEARM PARTS & SETTING

## TONEARM PARTS



- ① MAIN WEIGHT (with counter ring)
- ② TONEARM PIVOT SECTION
- ③ HEAD SHELL LOCK NUT
- ④ HEAD SHELL
- ⑤ ANTI-SKATING STRING

- ⑥ ANTI-SKATING ROLLER WEIGHT
- ⑦ ARM BASE
- ⑧ BIAS ADJUSTMENT WEIGHT
- ⑨ COUNTER BAR
- ⑩ ARM LIFTER

Fig. 5

## TONEARM ASSEMBLY

The tonearm is separated into various parts at the point of shipment and is separately packaged.

The arm base and arm rest are fixed to the player board. The tonearm output cord protrudes from the arm base and is temporarily attached.

Assemble the tonearm according to the following instructions:

Note. As the tonearm is a precision instrument, be careful not to use unnecessary strength during assembly.

1. In the socket in the lower part of the tonearm pivot section, remove the connector that has temporarily fixed the output cord and insert it as shown Fig. 6. Match the grooves in the connector and in the tonearm axle and push it all the way in.

Be careful when you release the output cord, which is temporarily fixed, as it can easily fall inside the player.

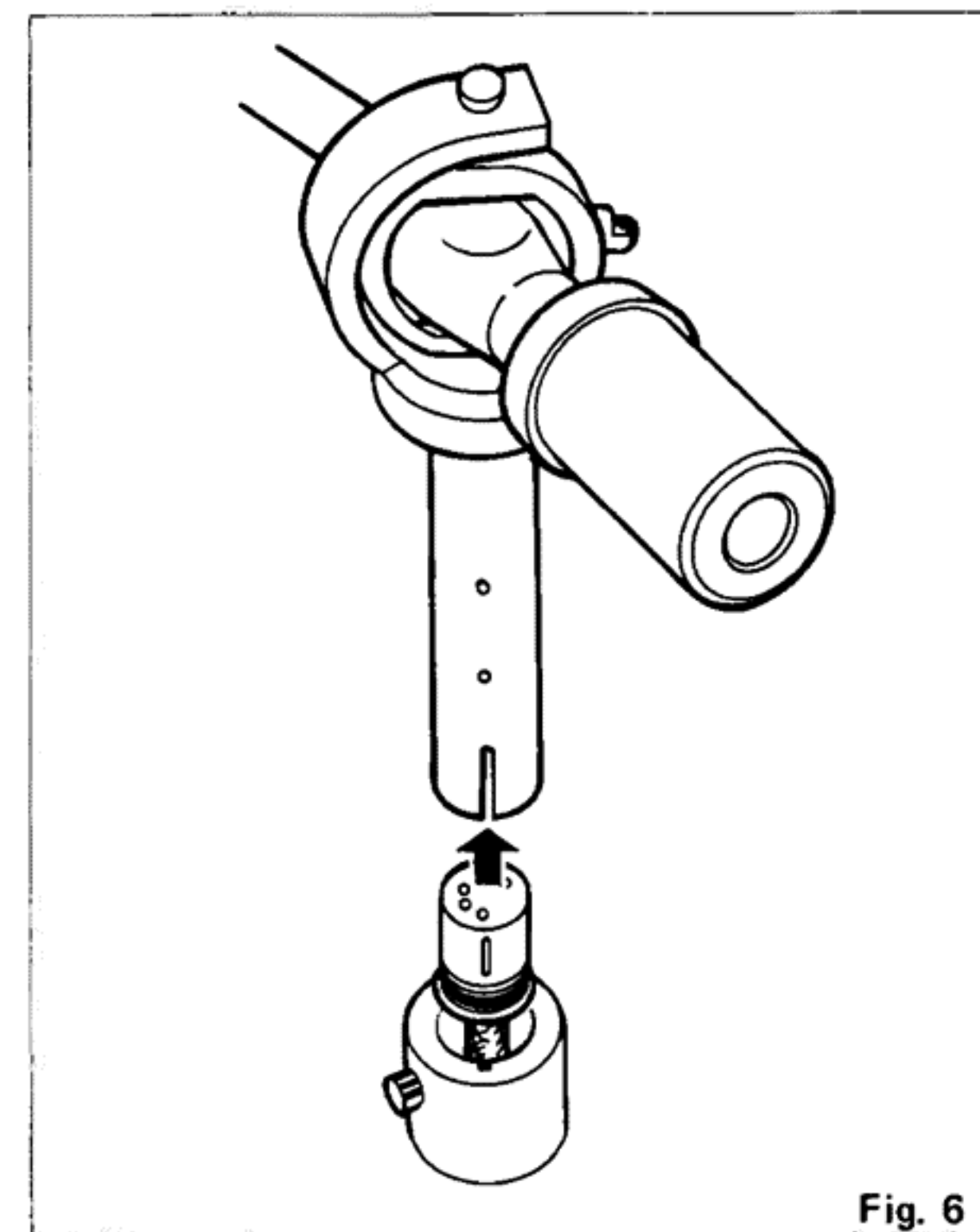
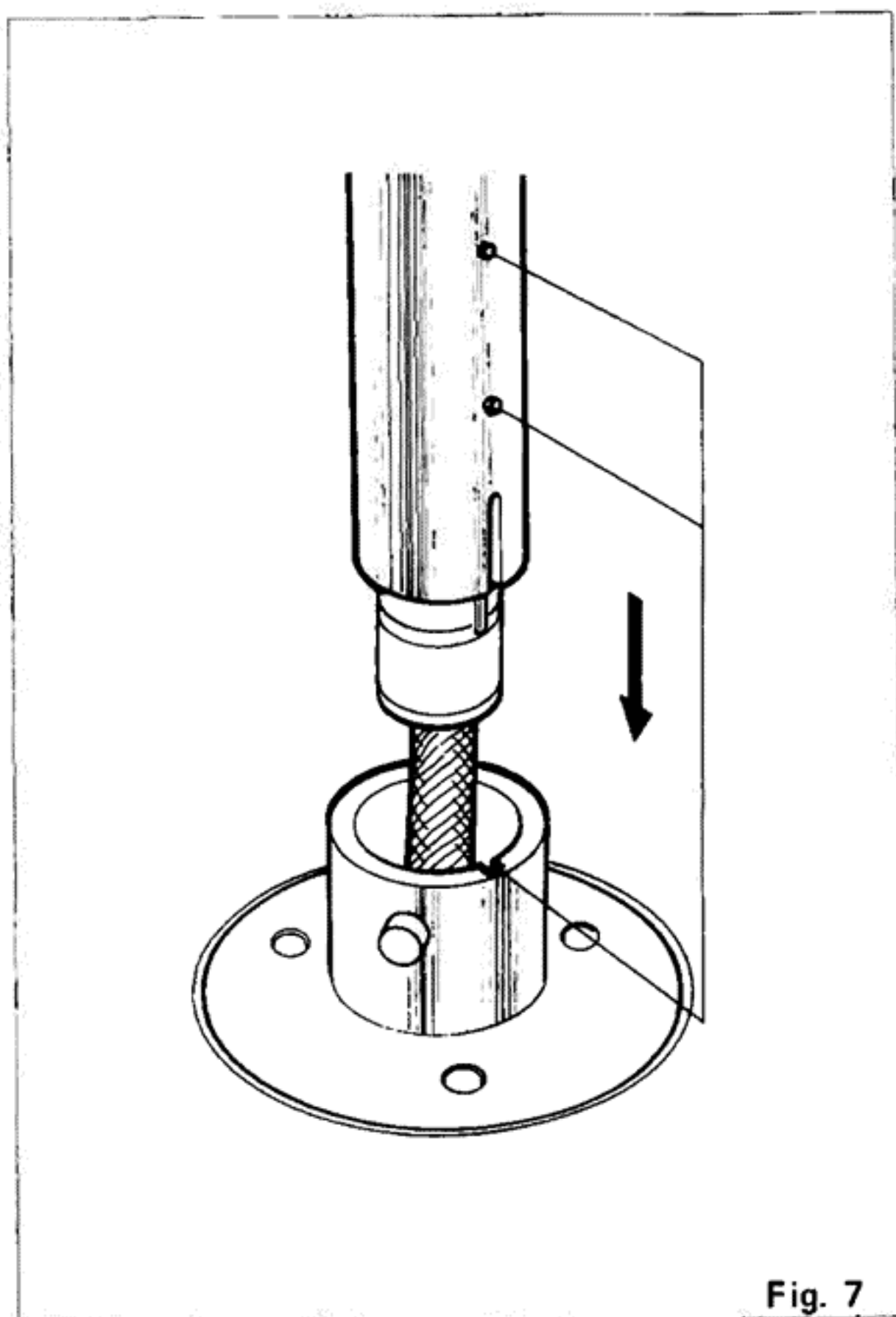
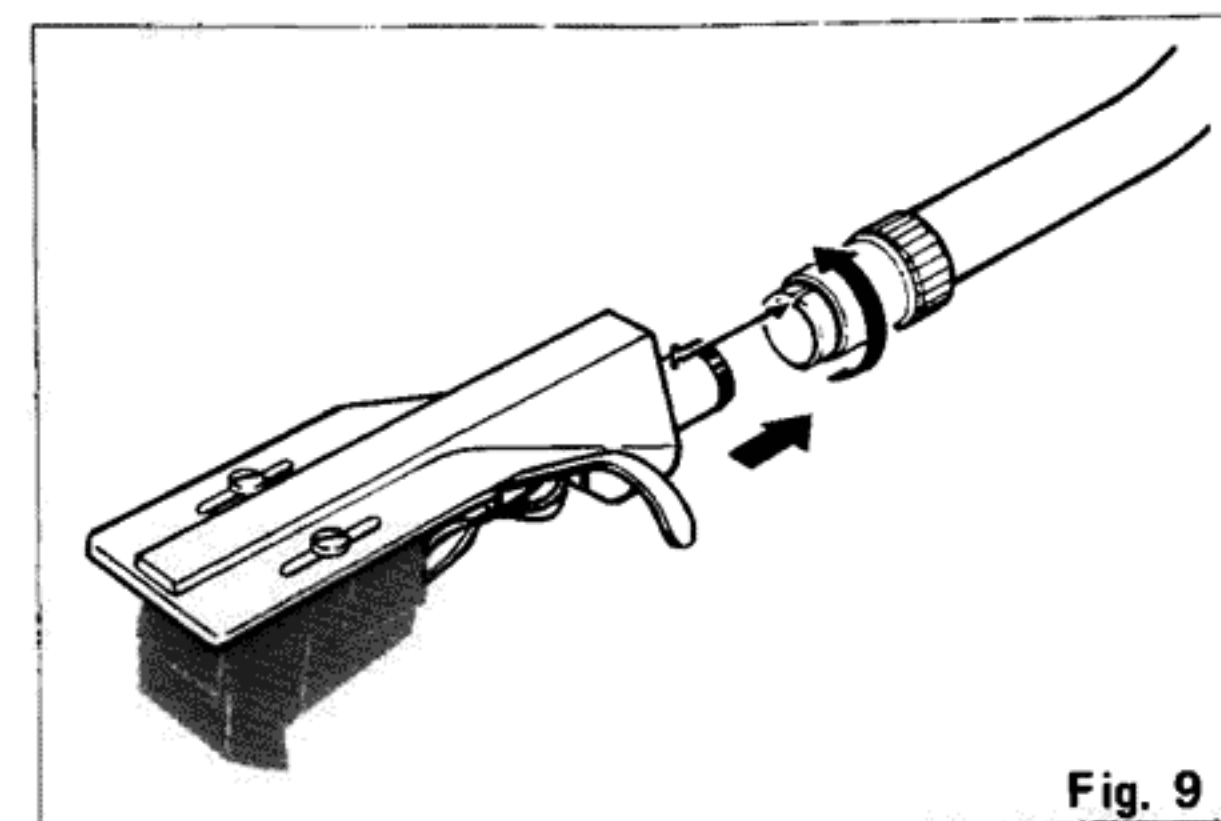
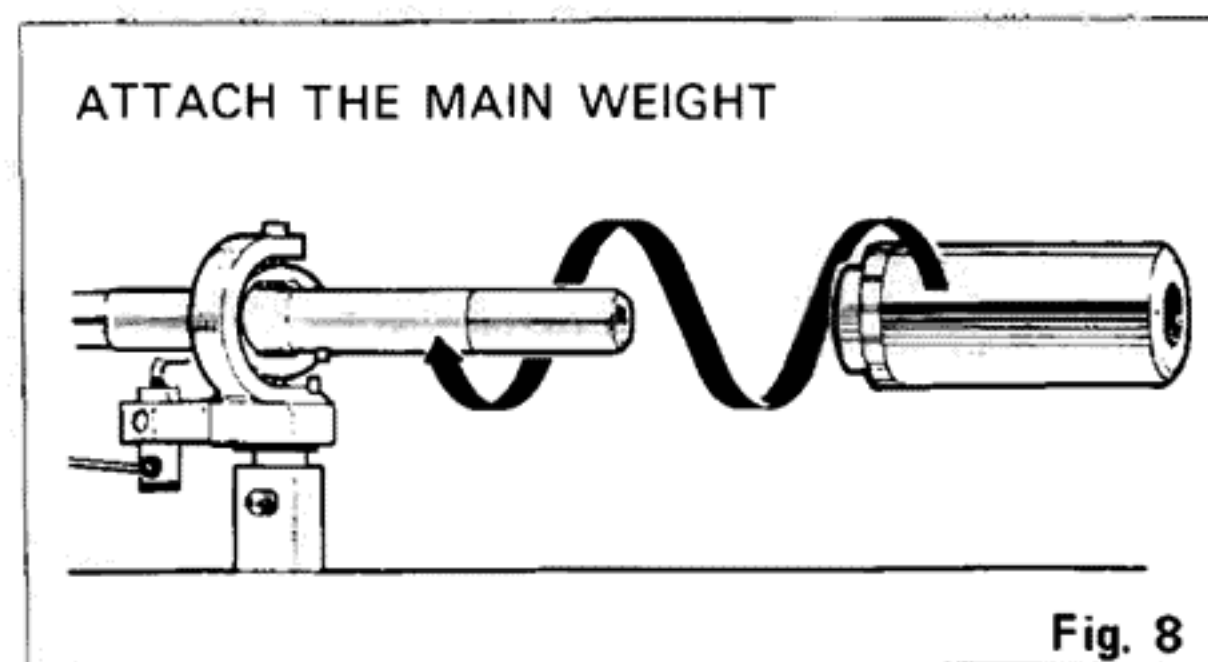


Fig. 6

2. Attach the tonearm axle shaft to the arm base, temporarily fixing it with the belts on the arm base. See Fig. 7.
3. Fit the tonearm and arm rest in position.



4. Attach the main weight as shown in Fig. 8, with a twisting motion. The threading on the inside of the weight will meet with the stopper on the back of the tonearm. After it is attached, turning it counterclockwise will move it smoothly forward, turning it clockwise will move it smoothly back (viewed from the front).
5. The head shell has a small pin which sticks out. Turn the shell so that this pin is pointing up, and attach it to the lock nut section on the top of the arm. Fix it by turning the lock nut ring.



## CARTRIDGE INSTALLATION

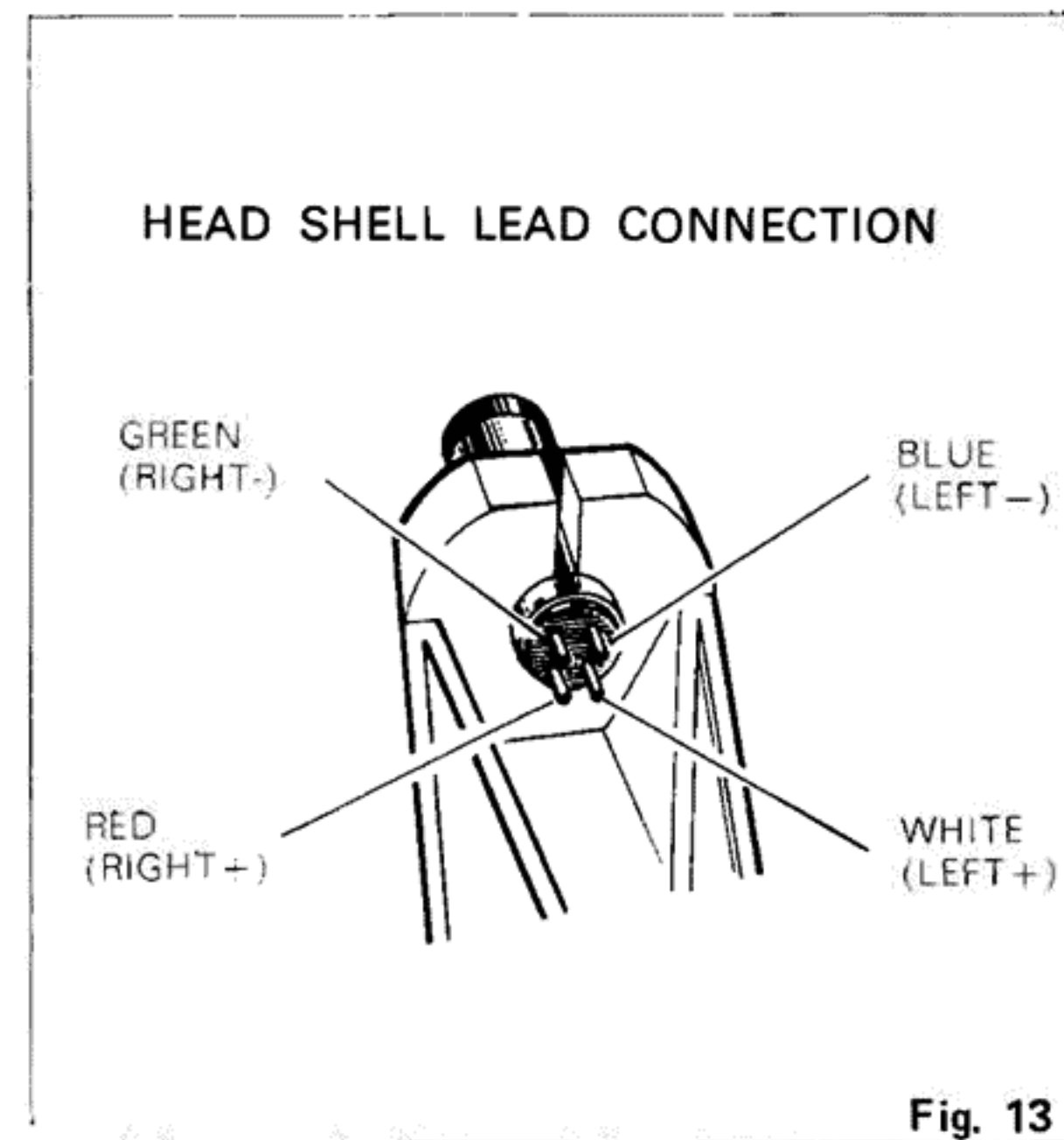
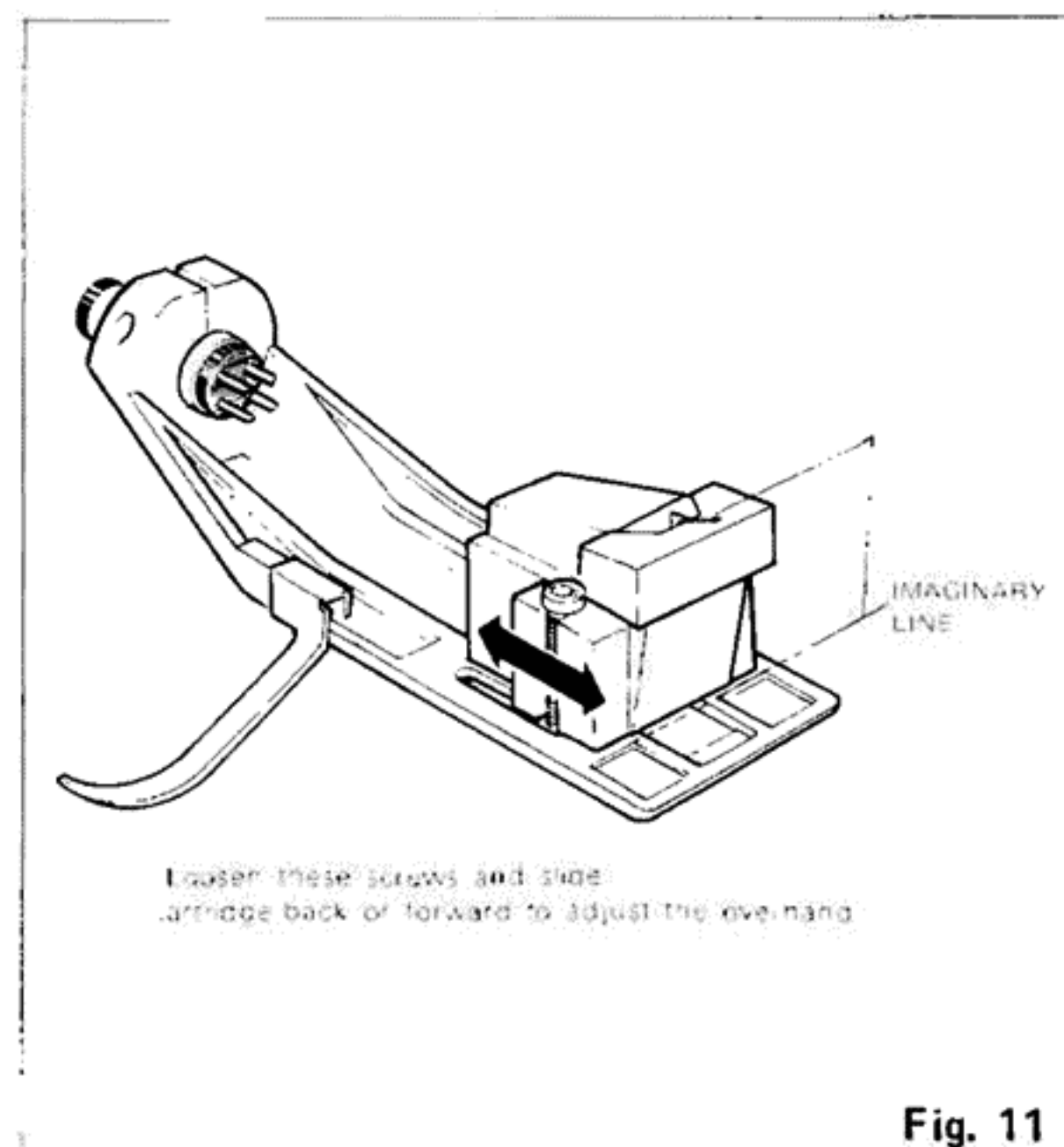
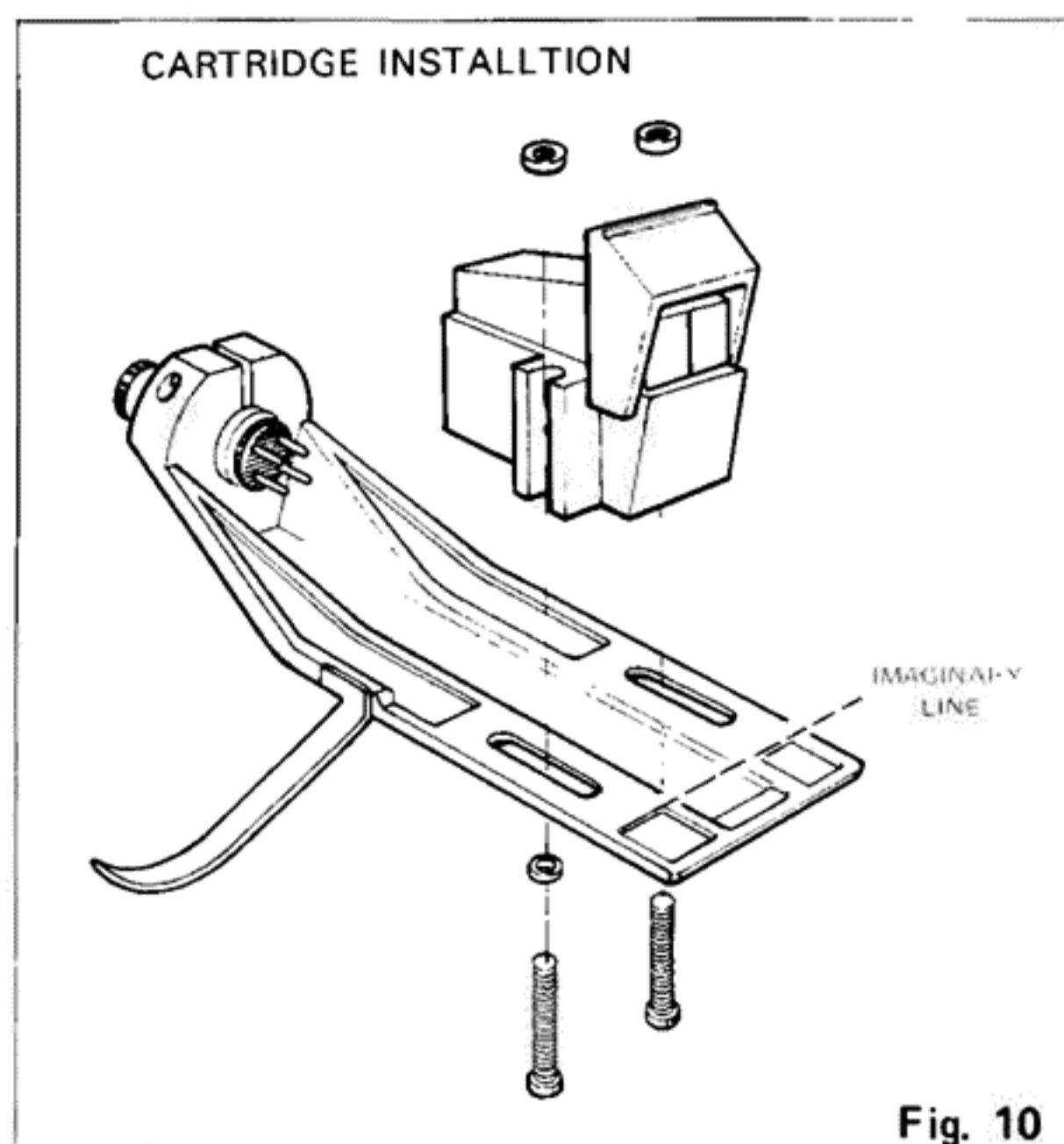
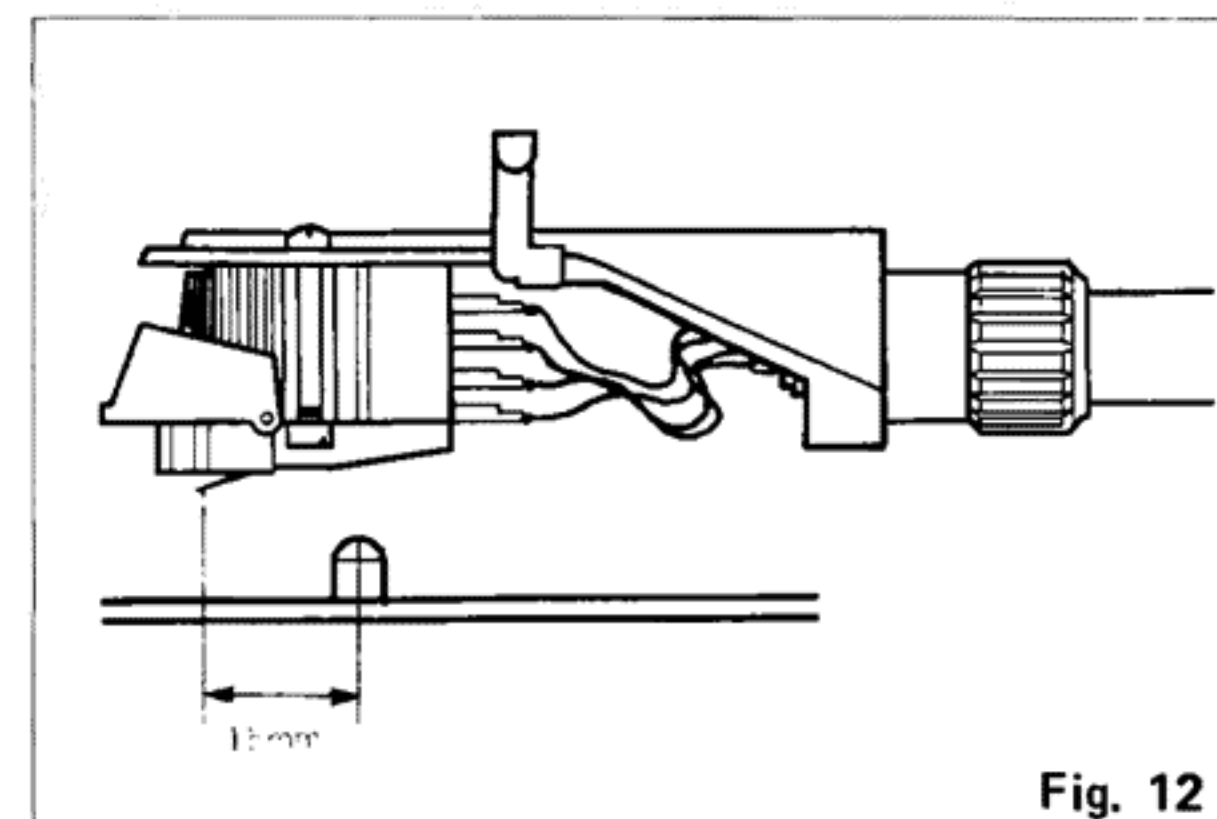
The YP-800 is supplied without a cartridge, in order to permit you to select the best cartridge to match your stereo system.

The YP-800 tonearm is designed to accept any cartridge weighing between 4 and 24 grams. Remember the cartridge weight when adjusting the tonearm.

Remove the head shell from the accessory box. Place the cartridge against the underside of the shell and attach it with whichever set of screws is most suited to the cartridge thickness.

Once the cartridge is in place, do not fully tighten

the screws. Its location must now be precisely determined for correct overhang. Slide the cartridge back or forward (the grooves on the top of the shell permit this movement) so that the tip of the stylus is directly under the ridge running across the lower surface of the head shell. See Fig. 11. Hold the cartridge in place and fully tighten the screws. Now install the head shell onto the tonearm. If you use another head shell, correct overhang point is 15mm (19/32") from the turntable shaft when the tonearm is over the shaft. See Fig. 12.





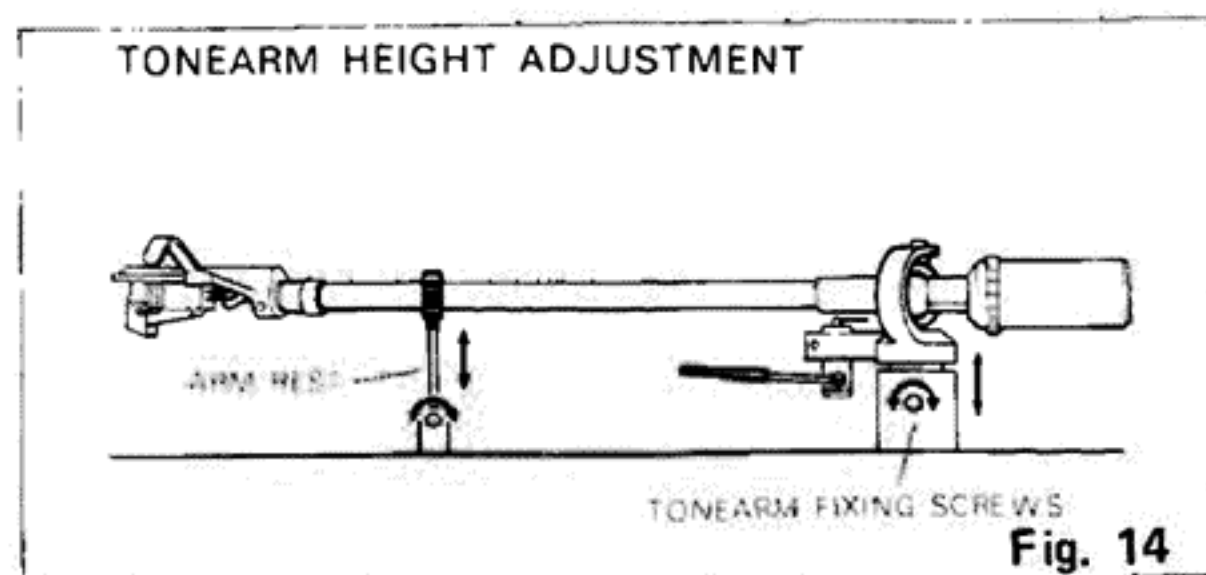
# TONEARM ADJUSTMENT

There are four necessary adjustments for the YP-800 tonearm: tonearm height, tonearm balance, stylus pressure and anti-skating adjustments.

## TONEARM HEIGHT ADJUSTMENT

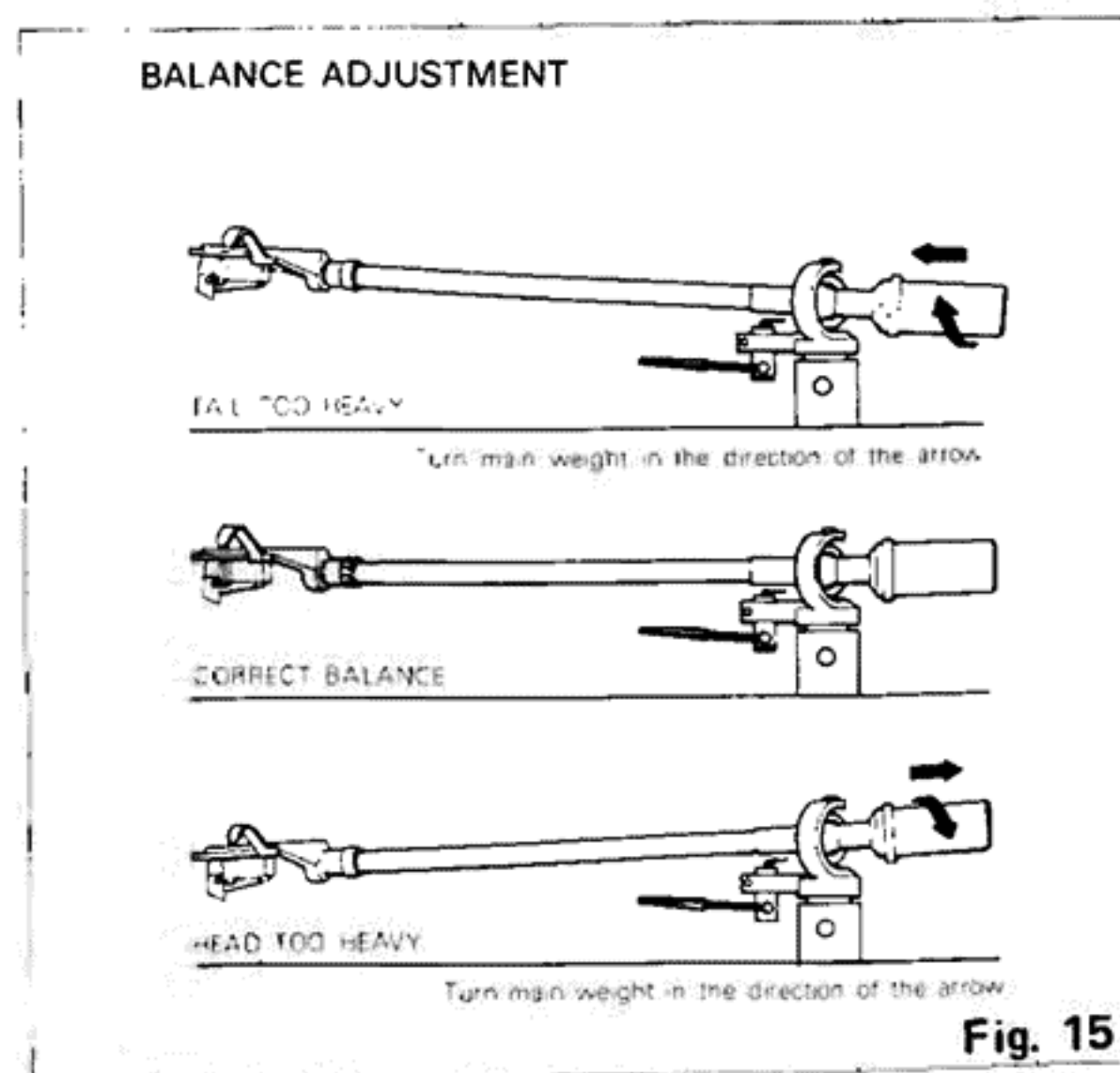
1. Lower the arm lifter and raise the stylus cover (if there is one on your cartridge).
2. Place a record on the turntable and gently place the stylus onto the record. Check that the tonearm is level; if it is not, raise or lower the pivot shaft to achieve a level position. See Fig.14. The shaft can be raised or lowered by first loosening the fixing screw on the base. Be sure to re-tighten the screw after adjustment is completed.
3. Once the arm is level, replace it on the rest. If it is not parallel with the cabinet panel, adjust the arm rest height in the same way.

NOTE: During the above adjustments, be careful not to allow the stylus to scratch the record or bump any other part of the YP-800.



## TONEARM BALANCE ADJUSTMENT

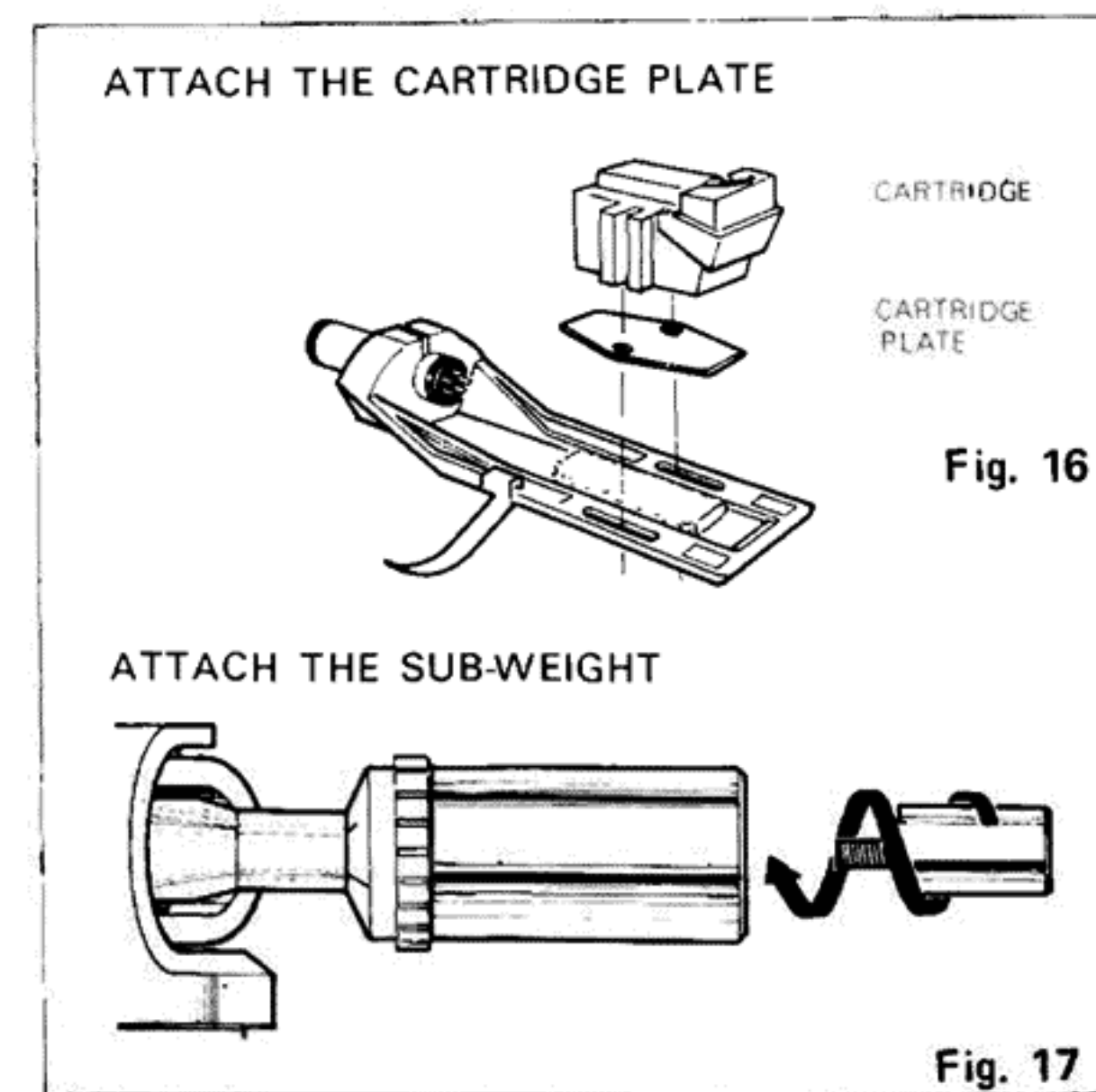
1. Take the tonearm off of the arm rest and lower the stylus cover (if there is one) to protect the stylus.
2. Check the tonearm level balance by lightly removing your finger from the finger hook. If the tonearm falls on the shell end (too heavy) move the main weight out; if it rises (too light) move the main weight in. Continue to adjust until horizontal balance is achieved.
3. When the tonearm is nearly balanced, fine adjustments should be made by turning the weight rather than by pushing it in or pulling it out. See Fig. 15.



NOTE: If the cartridge is too light to permit balance, then the cartridge plate (included with the accessories) must be used. Install it between the cartridge and the head shell (see Fig.16) and then balance the tonearm.

On the other hand, if the cartridge weighs 15 grams or more, balance cannot be achieved with the main weight alone. Screw on the sub weight (see Fig. 17) and then balance the tonearm.

4. Once balance is achieved, return the arm to its rest.



## STYLUS PRESSURE ADJUSTMENT

1. This adjustment must be made after the tonearm is balanced.

Turn the counter ring in the front end of the main weight so that its "0" mark lines up with the black line on the tonearm, be careful not to move the main weight when doing this. See Fig. 18.

2. Now turn the weight and ring together in the direction of the arrow in Fig. 19. Each dot or line on the ring indicates 0.1 gr.; one full turn provides three grams of tracking force. Set for the ideal force as called for in the instructions

accompanying the cartridge you select. For example, if your cartridge requires a 1.5 gr. tracking force, turn the main weight/ring combination until "1.5" faces the black line. If your cartridge requires 1.7 grams, turn the weight/ring combination to "1.5" and then continue turning until the second dot past this point is facing the black line.

NOTE: Insufficient or excessive tracking force will affect performance and record/stylus wear.

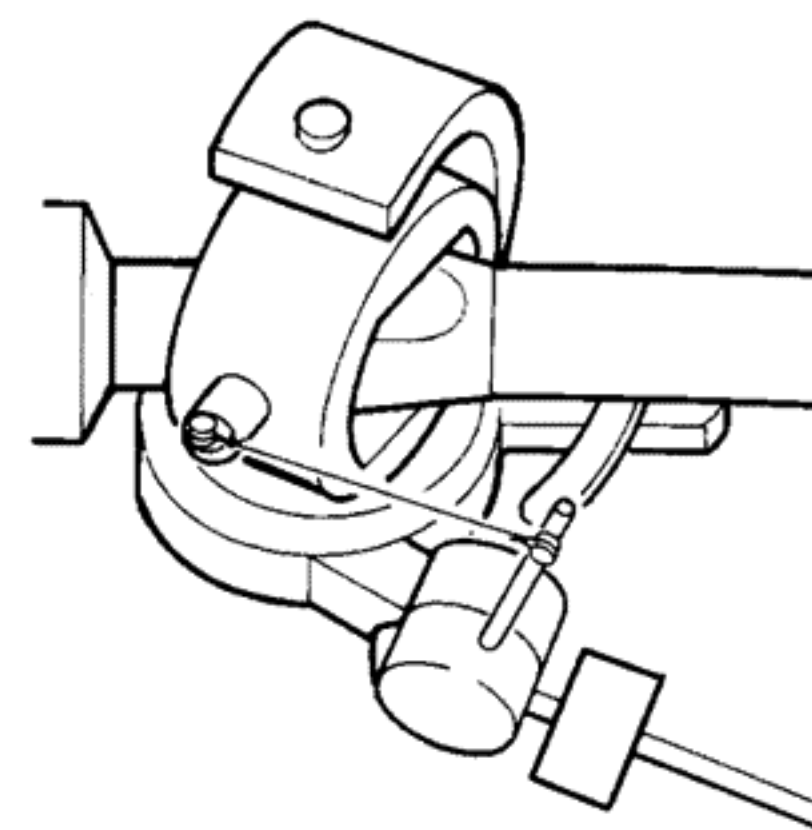
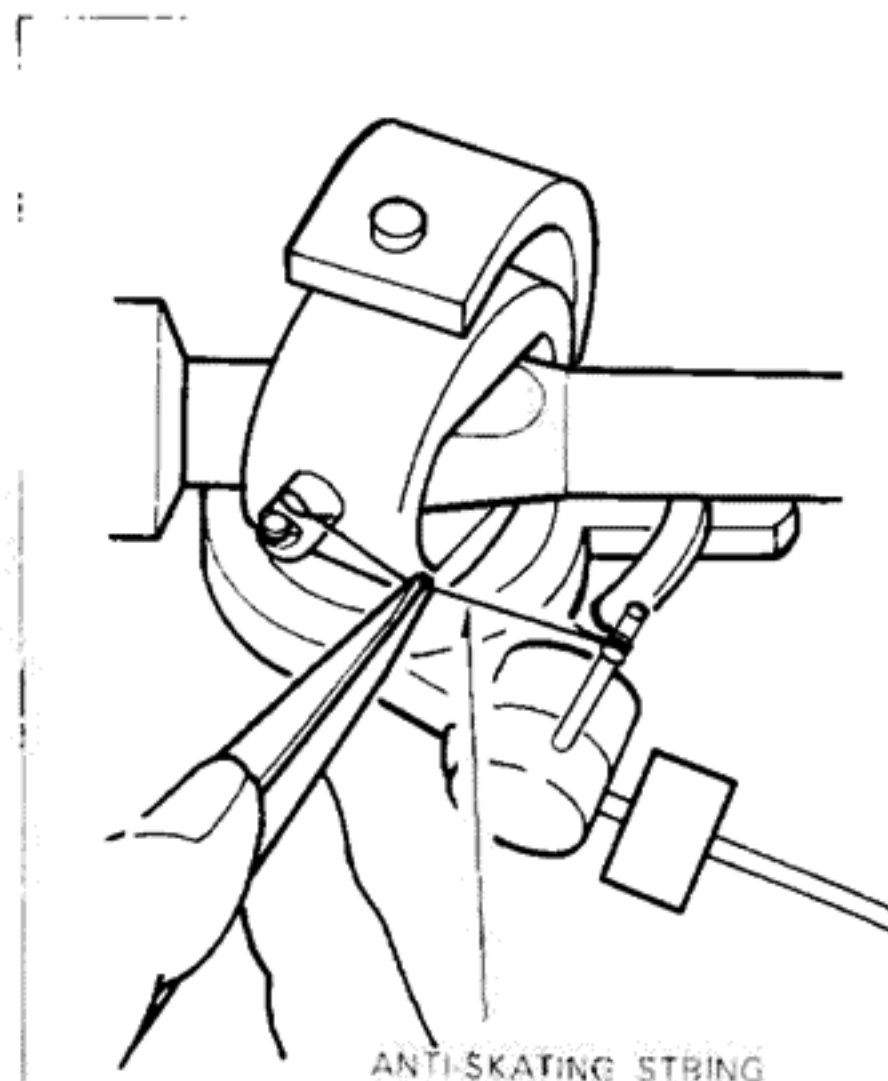
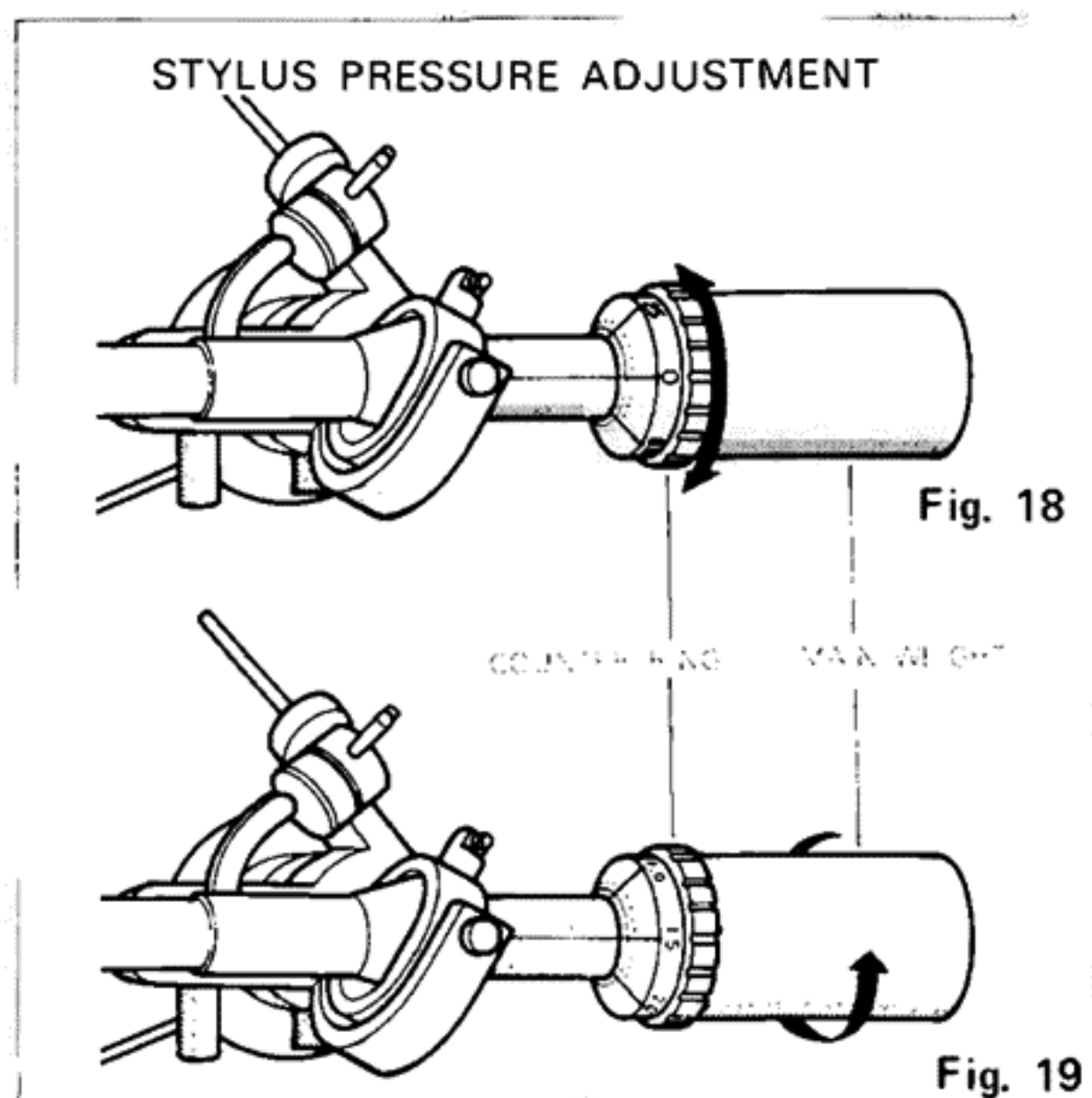
1. Take the anti-skating string out of its bag. Attach one end to the tonearm pivot section shaft roller, the other to the roller on the roller arm. See Figs. 20 and 21.

2. The position of the adjustment weight depends upon the stylus pressure.

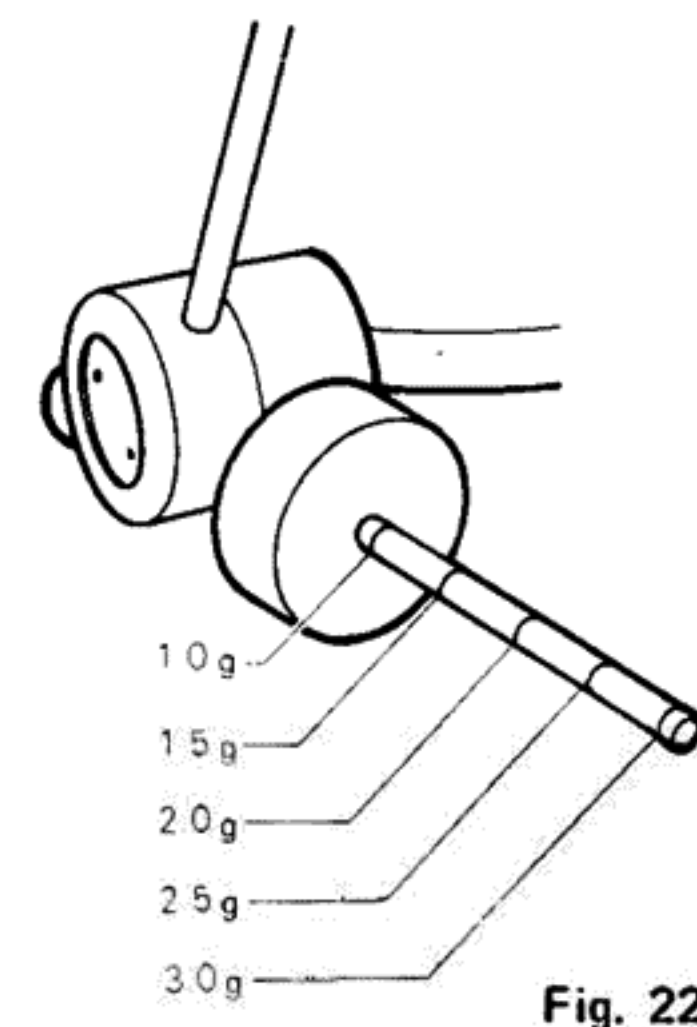
The lever has five notches; the innermost notch is for a stylus pressure of 1 gram, and each successive notch is for an additional 0.5g pressure. The end notch is thus for a stylus pressure of 3g. See Fig. 22.

For example, if your stylus pressure is 1.5g, you should set the weight at the second notch from the inside.

## ANTI-SKATING MECHANISM ADJUSTMENT



## BIAS ADJUSTMENT



## ONEARM LIFT ADJUSTMENT

The arm lifter performs two functions. It keeps the stylus from dropping onto the record or other surface when it is up. It also lowers the stylus onto the record slowly and smoothly, thanks to its silicon-damped piston, with no need for manual lowering.

1. To lower the tonearm slide the arm over until the stylus is directly above the point at which you wish to begin play. Now lower the lever and the stylus will slowly descend, its fall damped by hydraulic action.

2. To raise the stylus at any point on the record, simply slide the lever in the other direction. See Fig. 23.

If the stylus does not lower all the way onto the record when the lifter is down, or if it fails to sufficiently clear the surface of the record when it is up, adjust the lifter height by first loosening the screw as shown in Fig. 24. After adjustment is made, be sure to retighten the screw. Do not over-tighten.

ONEARM LIFTER OPERATION

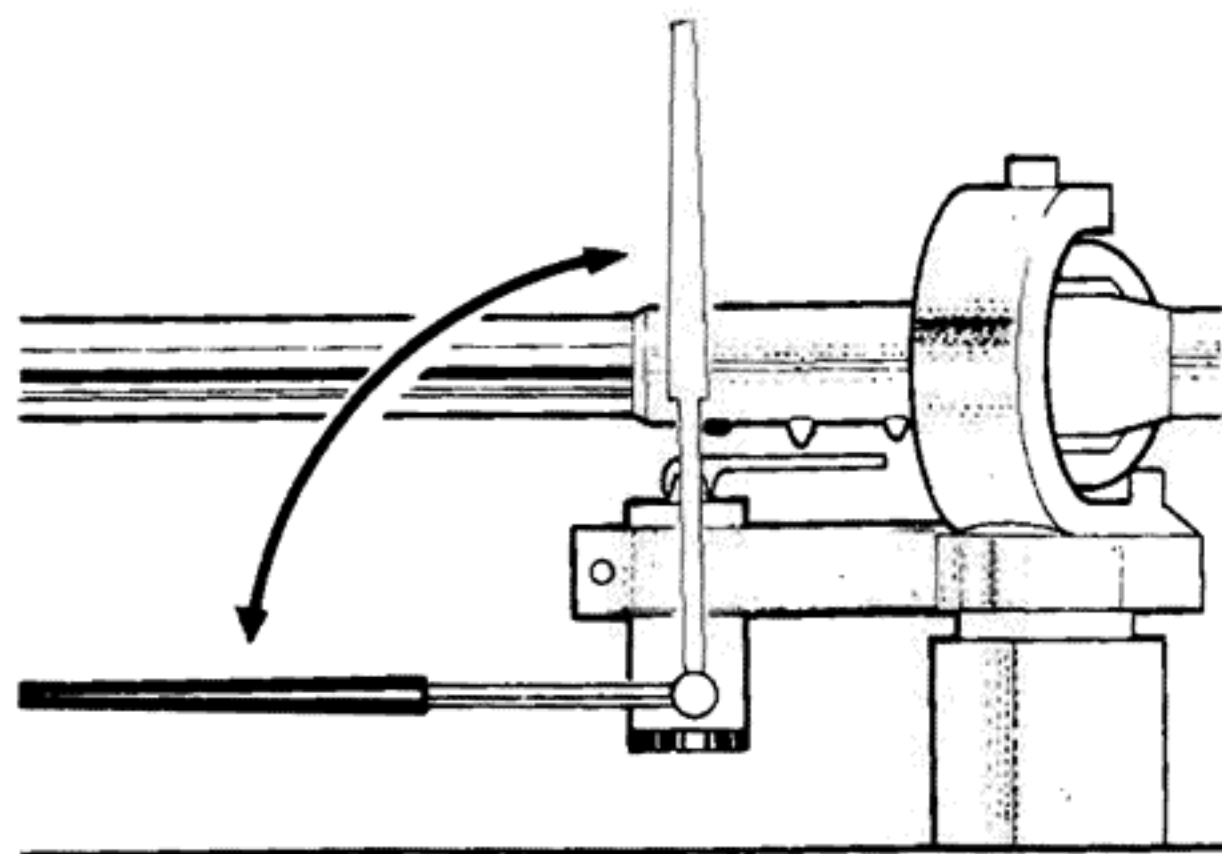


Fig. 23

ONEARM LIFTER ADJUSTMENT

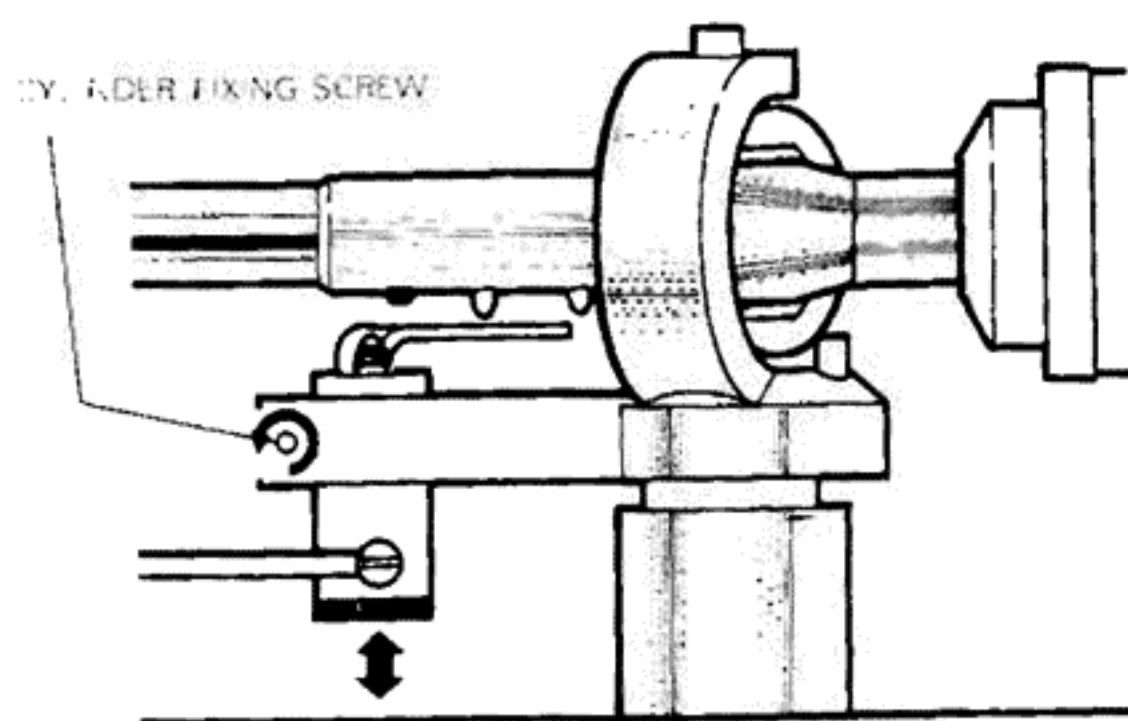


Fig. 24



1. Plug the L and R signal output cords (rear panel) into the Phono jacks of your amplifier. Do not mistake the left lead (white) with the right one (red). See Fig. 25.
2. The small black cord coming out of the output leads is a ground wire. Certain amplifiers have a tendency to create hum and interference if this wire is not connected. To reduce these problems, connect to the amplifier rear panel ground terminal.
3. If the amplifier inputs have an impedance matching switch, select the setting which most closely matches the impedance of the cartridge you choose.
4. For AC power supply it is best to plug the YP-800 into one of the amplifier rear panel outlets if possible. If you have a choice of switched or unswitched outlets, choose a switched one.

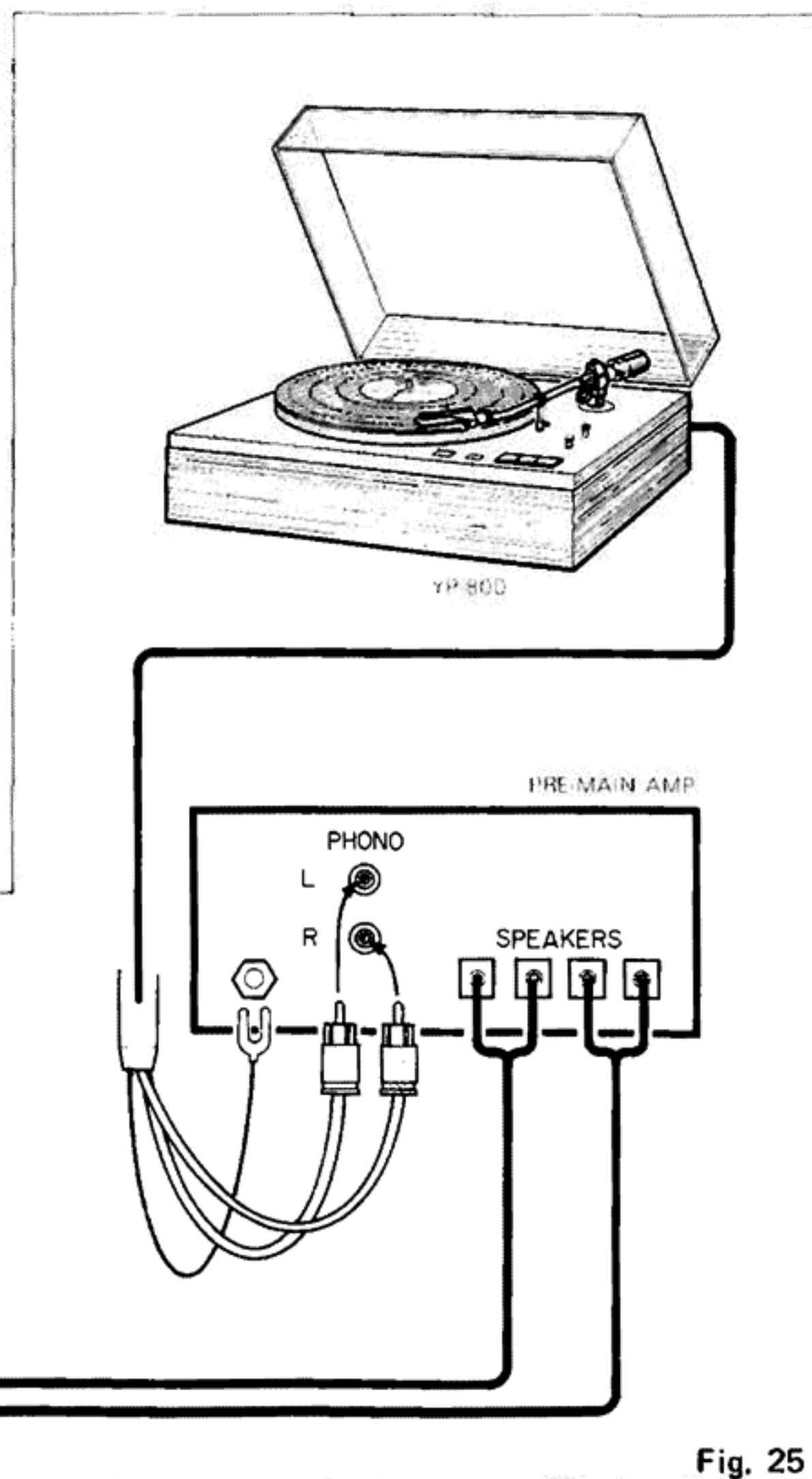


Fig. 25

To protect against voltage fluctuations and to match line frequency, the YP-800 power section incorporates a precision electronic control circuit to assure constant, stable revolutions. To be sure your turntable is operating with precise speed according to the local power, first check the proper ring on the stroboscope. If it is not stationary, adjust the proper speed control until the pattern appears to stop moving.

Since the speed controls permit continuous adjustment from +3% to -3%, they can also be used as pitch controls. See Fig. 26.

NOTE: From time to time a slight variation in stroboscope stability may be noted. This is due to line voltage fluctuations and in no way indicated a defect in your YP-800.

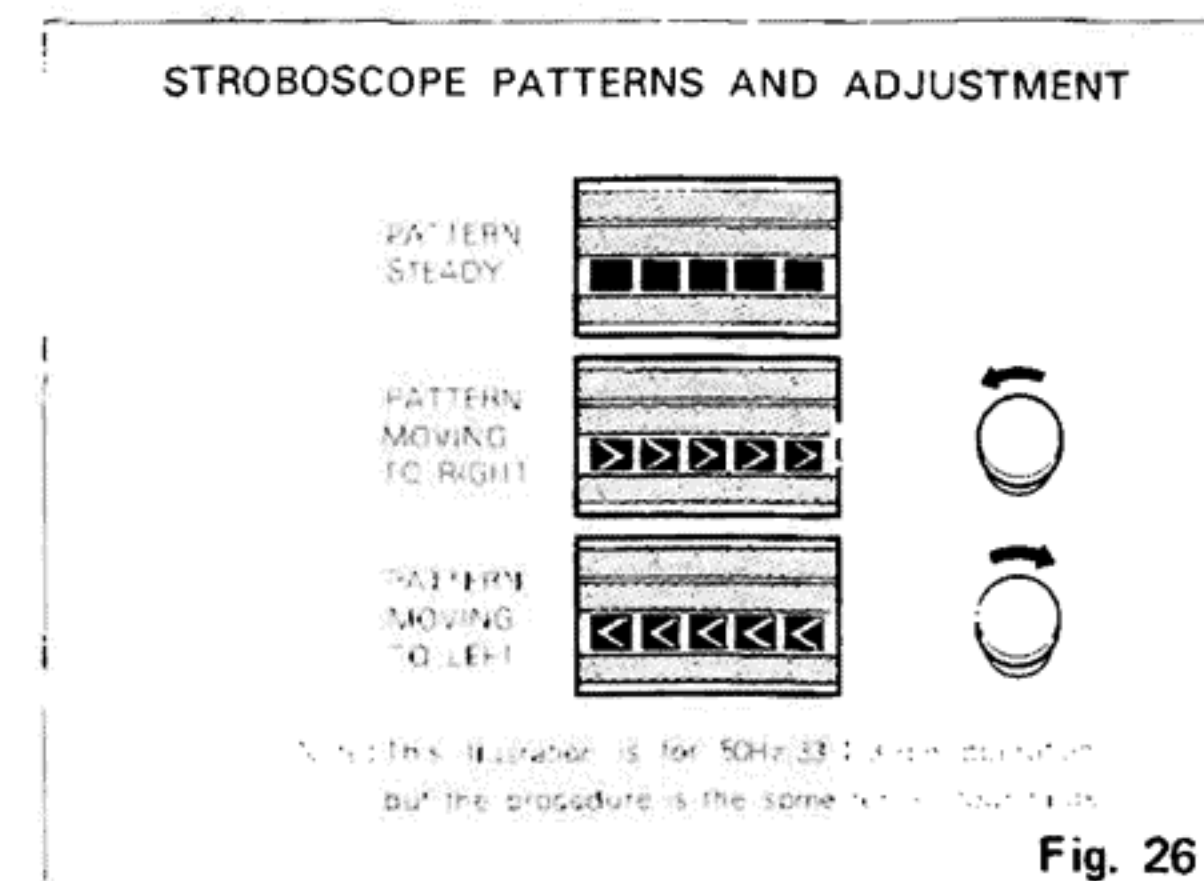
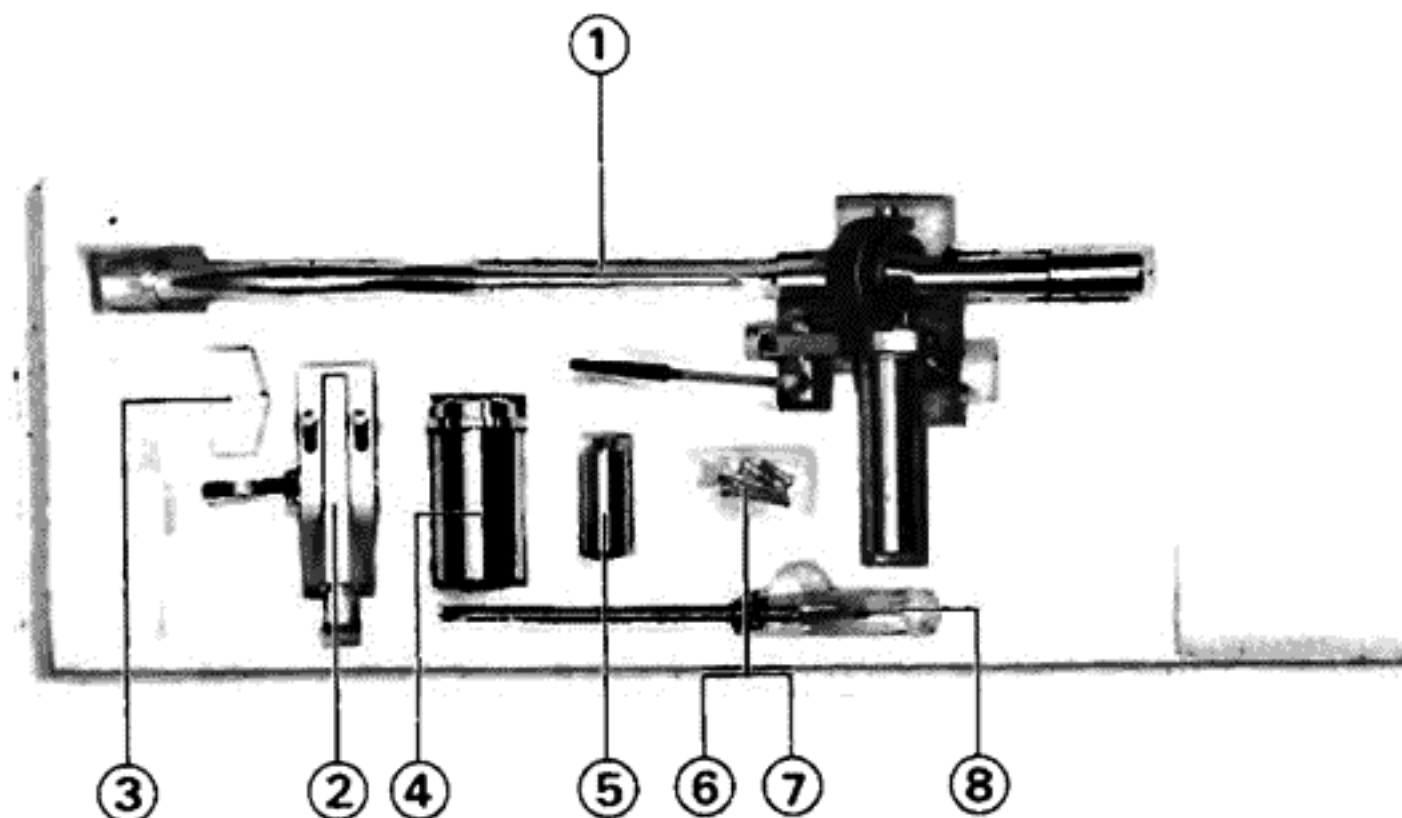


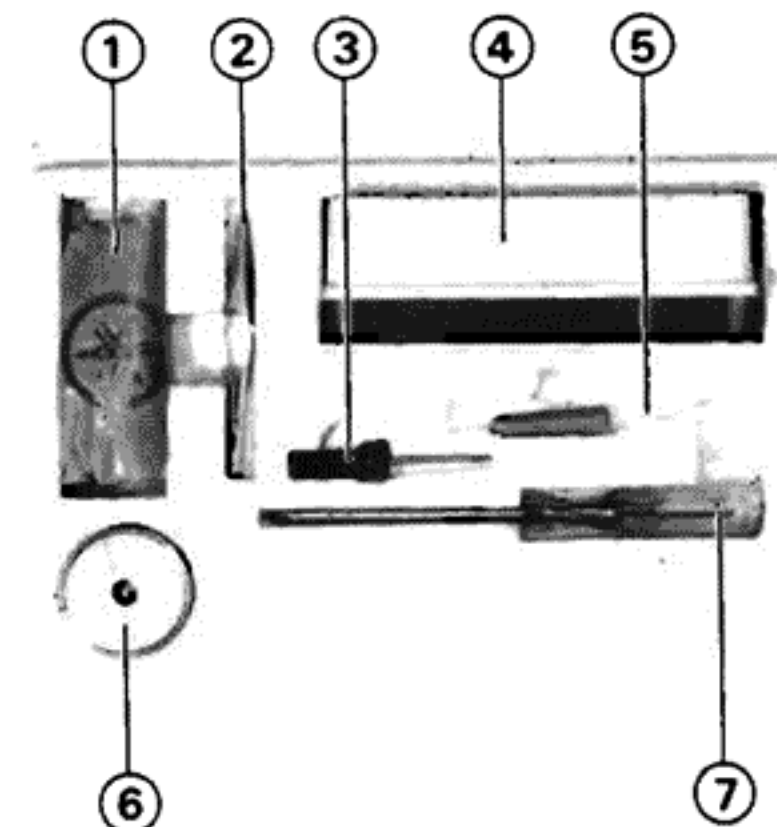
Fig. 26



1. Set the Function switch on the amp to which the YP-800 is connected to Phono.
2. Switch on the amp.
3. Place the record on the turntable and press the switch which corresponds to the speed of the record.
4. Check the speed by watching the proper stroboscope ring. Adjust the speed if necessary.
5. Make sure the arm lifter lever is in its raised position, and that the stylus protector (if any) is raised out of the way.
6. Slide the tonearm over the desired spot on the record.
7. Slowly move the lifter lever to its lowered position.
8. At the end of the record, or if you wish to interrupt play anywhere before the end, raise the lifter lever and slide the tonearm back to its rest. Then press the Stop button. The platter will come to a stop.



① Tonearm	x1
② Head Shell	x1
③ Shell Weight (Plate)	x1
④ Main Weight	x1
⑤ Sub-Weight	x1
⑥ Cartridge Attachments	
a. Screws L = 16mm	x2
b. Screws L = 14mm	x2
c. Screws L = 8mm	x2
d. Nuts	x2
e. Nylon Washers	x2
⑦ Anti-Skating String	x1
⑧ Screwdriver (+)	x1



- |                               |
|-------------------------------|
| ① Yamaha cleaner (with cloth) |
| ② Tweeter                     |
| ③ Small-size screwdriver      |
| ④ Record cleaner              |
| ⑤ Needle brush                |
| ⑥ EP adapter                  |
| ⑦ Medium-size (+) screwdriver |

Note: One head shell is included in the accessory box.

# TROUBLE SHOOTING

Please check the following points if you think something is wrong with your YP-800. Only after you have checked these points, or if you cannot find or correct the problem yourself, contact the dealer from which you bought the unit, or any authorized Yamaha service station.

TROUBLE	CAUSE	CORRECTION
The turntable does not operate even though the switch is on.	Is the AC cord plugged into an outlet?	Plug in firmly.
Turntable speed is too slow or too fast.	Improper speed adjustment.	Readjust with speed control knob while watching stroboscope.
Stroboscope ring cannot be stabilized by adjusting speed control knob.	Faulty use of adjustment knob.	Be sure proper knob is used, and proper ring on stroboscope is being checked.
	Wrong stroboscope checked.	Check frequency and speed marking on stroboscope, then readjust.
Zero tonearm balance cannot be achieved after new cartridge installed.	Cartridge too heavy.	Install sub weight and rebalance.
Tonearm does not lower.	Arm lifter is in raised position.	Reread the section describing arm lifter operation.
No sound even though stylus lowers to record surface.	Amp Function switch not set to Phono.	Set Function switch to Phono.
	Amp Volume turned down too low.	Increase volume to suitable level.
	Player output lead improperly connected.	Reconnect firmly to amp input jacks.
	Faulty connection between arm pivot section leads and output leads.	Remove the arm pivot section from its base and check the connection.
	After changing cartridge the tonearm height is not correct and the cartridge touches the record surface.	Readjust tonearm height to suit the cartridge thickness and shape.
Sound distortion, or noticeable interference, especially in treble range.	The turntable is not level.	Check the level bubble and readjust for level position if necessary.
	Dirty stylus.	Clean the stylus with a soft brush, etc.
	Worn stylus.	Replace.
	Record dirty or damaged.	Clean record. Replace if defective.
	Insufficient or excessive stylus pressure.	Readjust for proper pressure to match cartridge characteristics.
	Amp treble tone control turned too high.	Return treble control to Flat position.
Excessive vibrations or howling.	Player too close to speakers and/or location not stable.	Select a stable location and separate player from speakers. Be careful not to place player in front of speakers.
Booming sound or hum during record play.	Player ground wire not connected to amp ground terminal.	Connect ground wire. NOTE: There are cases where better performance is required by not connecting this wire.