



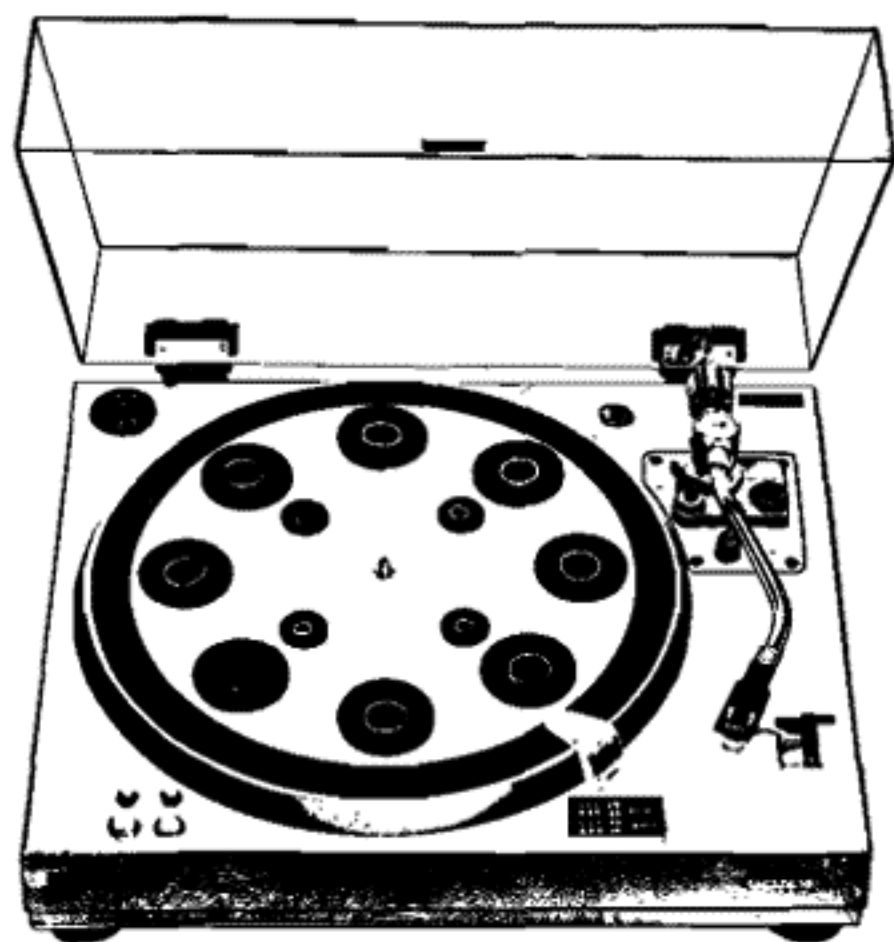
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SONY®

STEREO TURNTABLE SYSTEM

PS-4750



Owner's instruction manual

FEATURES

The Sony PS-4750 uses the new material SBMC (Sony Bulk Mould Compound) in the construction of its turntable platter and cabinet. Together with the use of a servo-controlled direct drive dc motor, this new material with its unique acoustic and vibration absorption properties provides an excellent signal-to-noise ratio.

An innovative frequency sensing device is utilized in the servo control system in the form of a magnetic coating inside the platter. This unusual Frequency Generator (F.G.) component of the servo system, contributes substantially to the exceptionally low degree of wow-and-flutter.

Newly engineered rubber insulation mats isolate externally caused mechanical vibrations that would have an adverse effect on the quality of reproduction.

This high compliance, low friction tonearm is provided with a precisely engineered anti-skating compensator for proper tracking and superb reproduction throughout the audio spectrum.

Other features include a high-visibility stroboscope, a built-in stylus overhang checker, a cueing lever to prevent record and stylus damage, and convenient pitch controls for accurate tone reproduction.

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WARNING

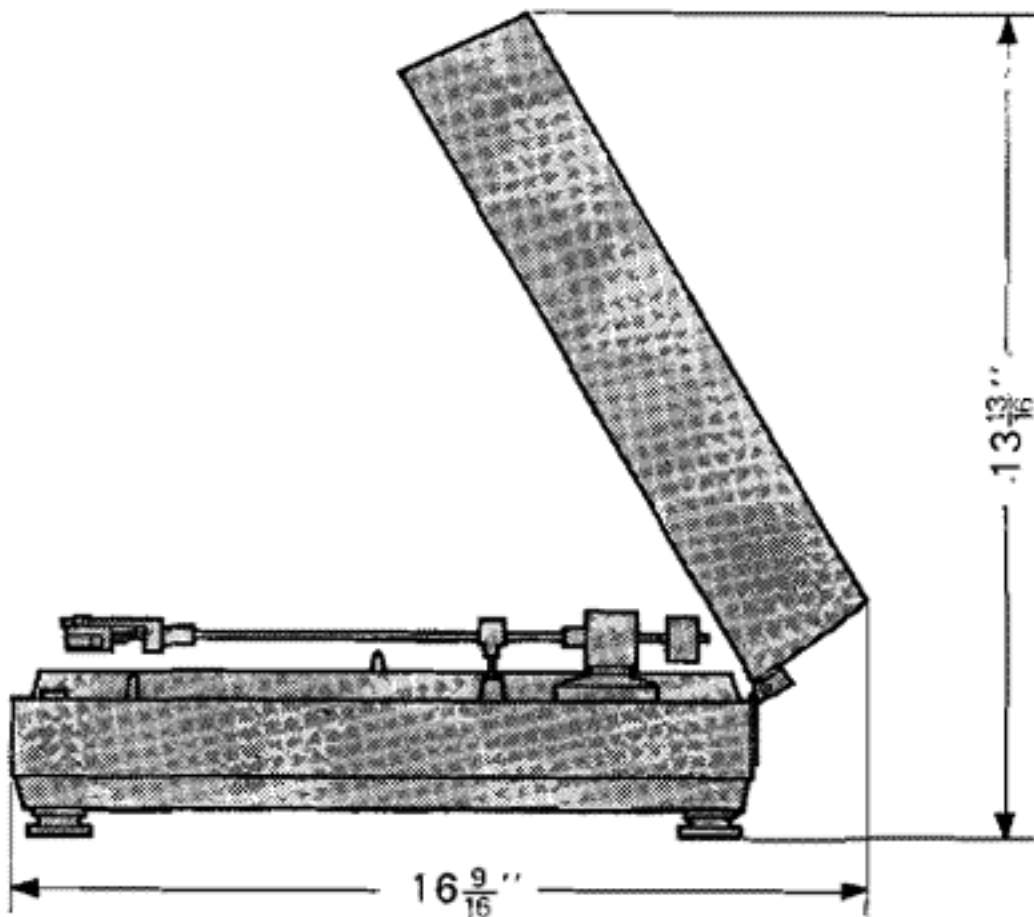
- To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.
- To prevent fire or shock hazard, do not expose the set to rain or moisture.

PRECAUTIONS

- Operate the set only on 120 V ac, 60 Hz.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet when it will not be used for an extended period of time.
- No lubrication is required for this player, since it employs a motor shaft of self-lubricated metal.
- Clean the cabinet and dust cover periodically with a soft dry cloth. Do not use solvents such as alcohol, benzine or thinner, since they will damage the finish.
- When the rubber mat is dirty, wipe it softly with a soft cloth slightly dampened with water.

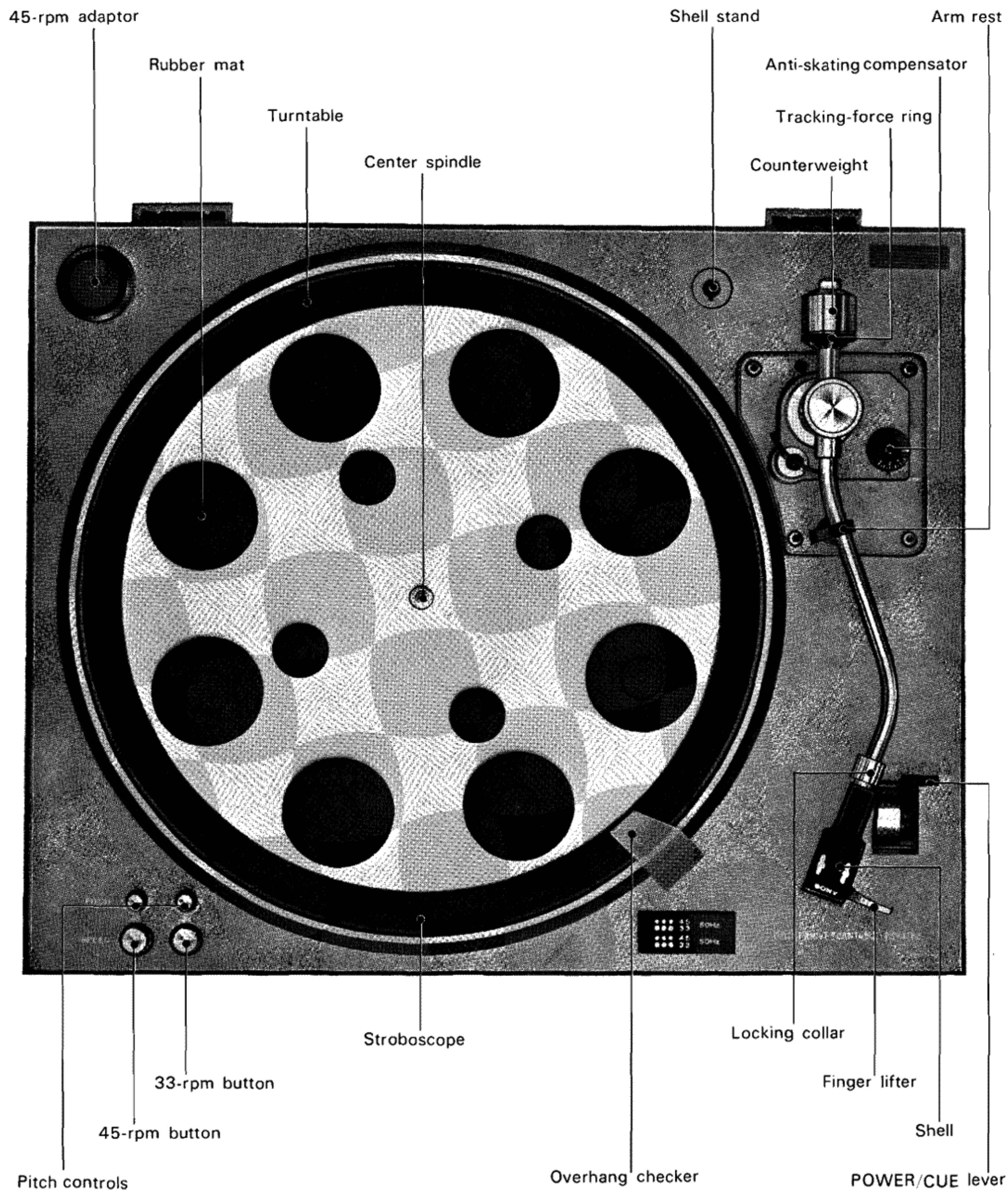
NOTES ON LOCATION

- Place the turntable on a level surface.
- Avoid placing the set near electrical appliances (such as television, hair dryer, fluorescent lamp) which may cause hum or noise.
- Avoid any vibration (such as from speakers, slamming of doors etc.).
- Keep the set away from direct sunlight, extreme of temperature, or excessive dust and moisture.
- Allow five inches clearance behind the set so that the cover can be opened.



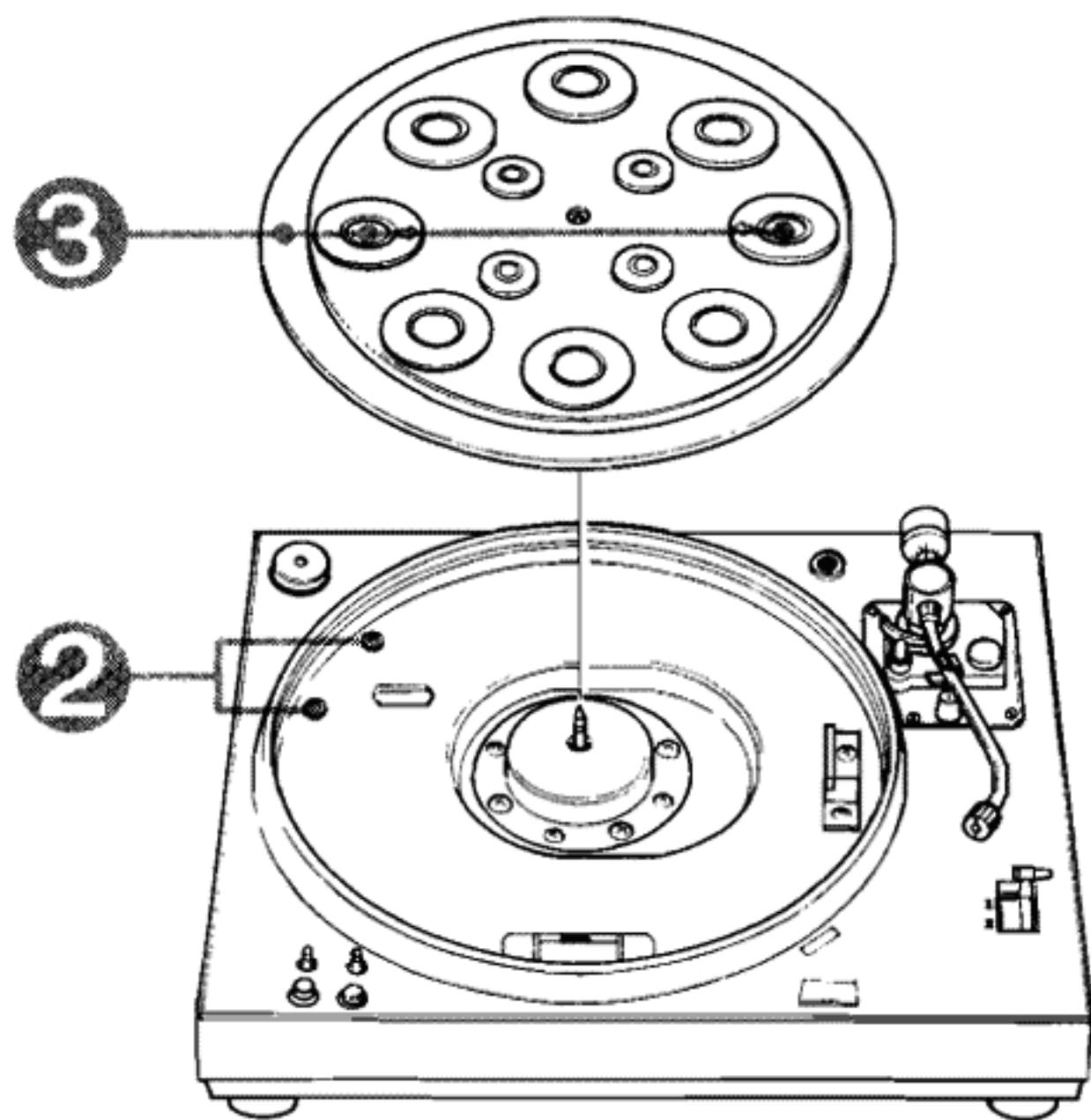
LOCATION OF CONTROLS

Your record player must be assembled as described here before it can be used for record playing. The picture below shows the appearance of the assembled player.



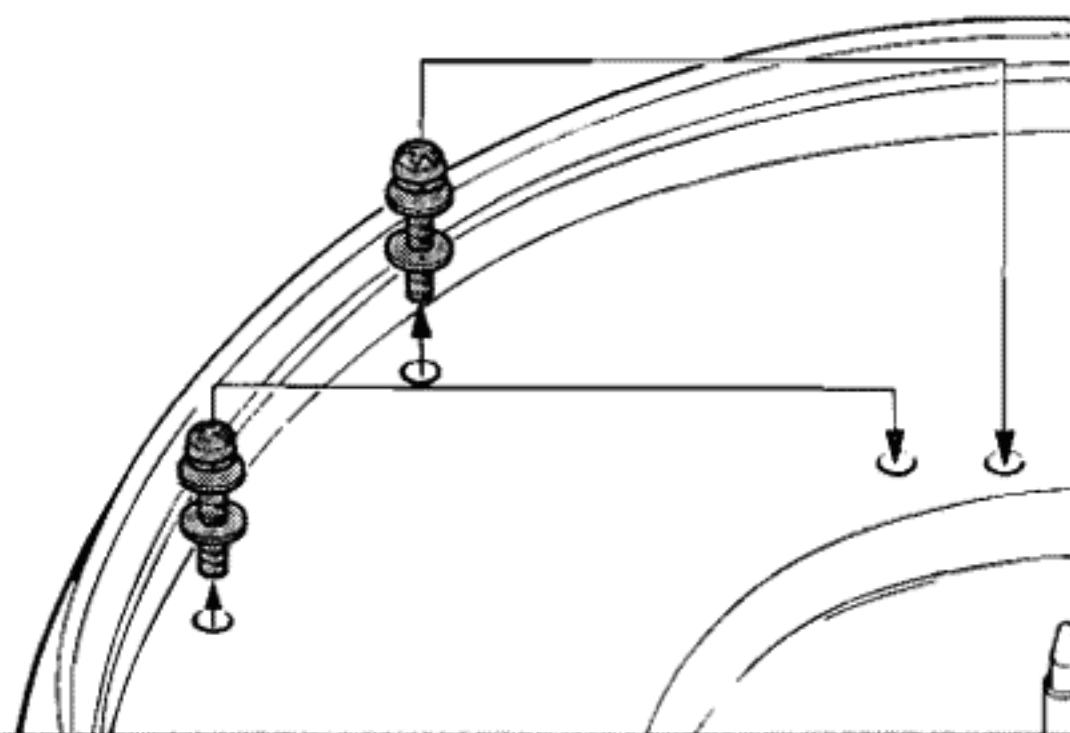
TURNTABLE ASSEMBLY

Do not connect the power cord or the connecting cords until after finishing the assembly and adjustments.

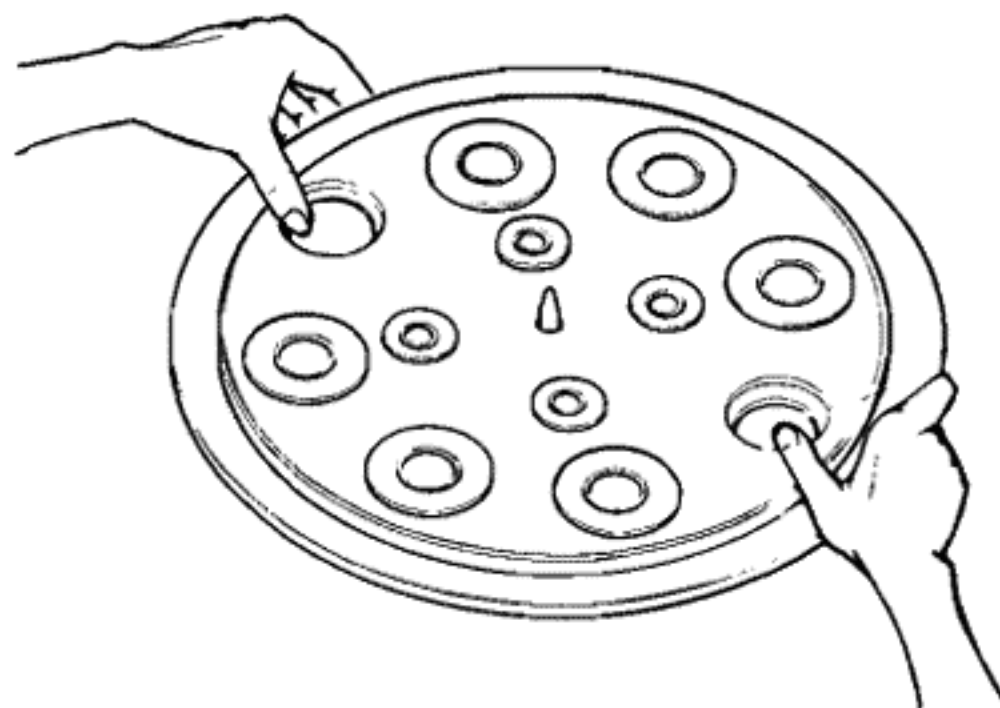


1 Remove all packing material and clean the cabinet.

2 Remove the two red-painted transit screws. Store them in the white painted hole. (These screws are required at the time of repacking. See the "Repacking instructions" on page 12.)

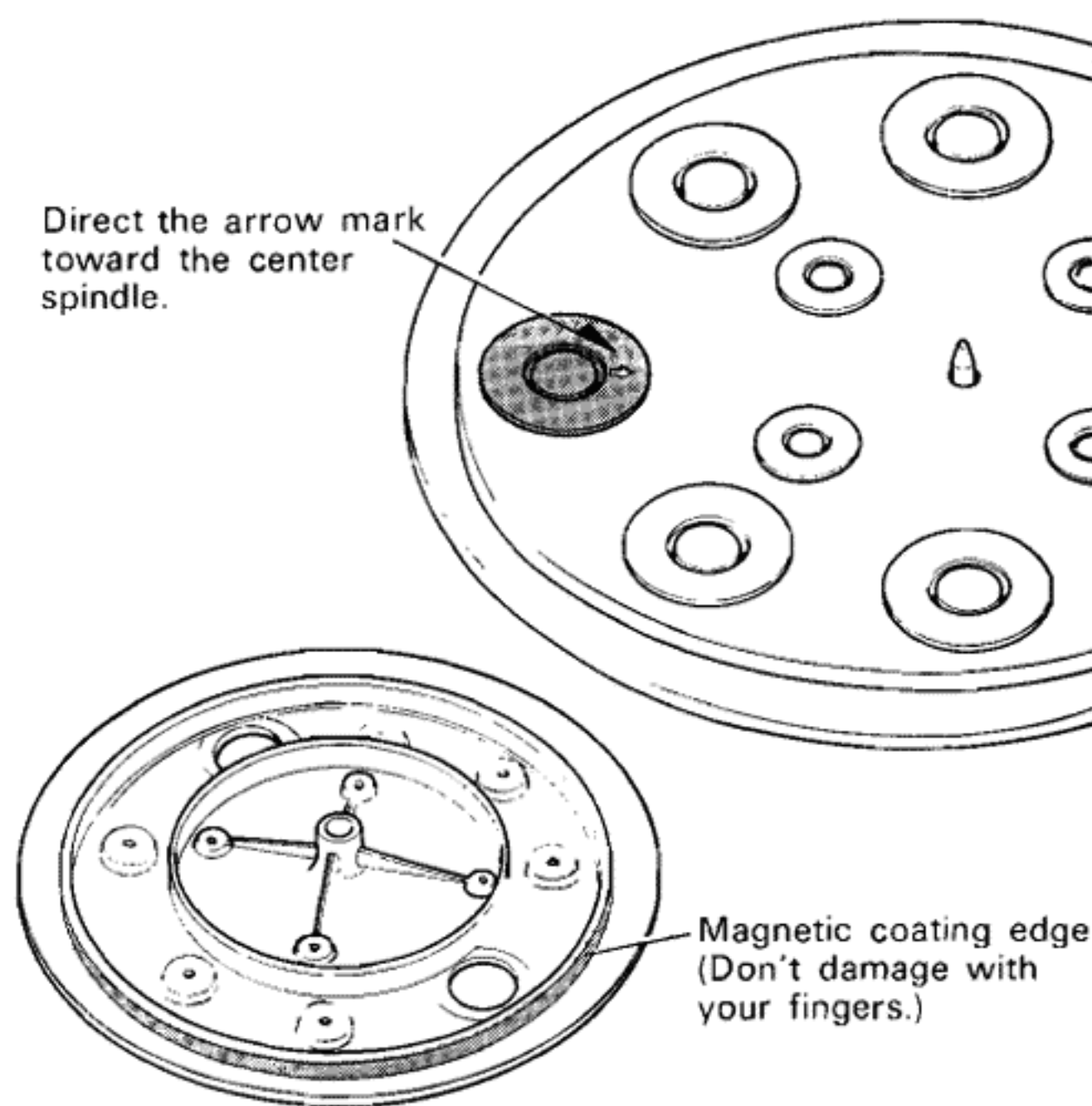


3 Remove the two arrow-marked rubber mats and place the turntable on the frame.



4 Push the two rubber mats securely into the turntable. Be careful not to damage the magnetic coating edge of the turntable with your finger tips.

Direct the arrow mark toward the center spindle.



Magnetic coating edge (Don't damage with your fingers.)

● Except for the arrow-marked two pieces, the rubber mats cannot be removed.

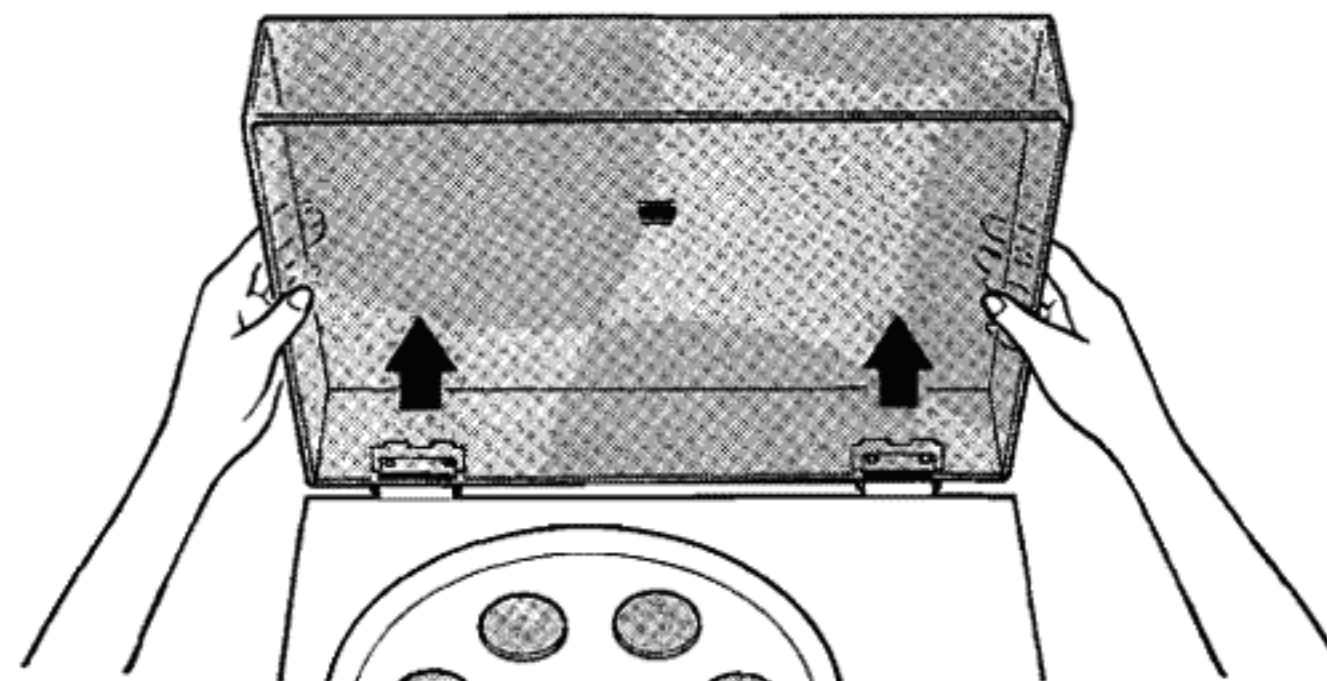
● Be careful that no foreign objects lodge under the turntable.

● Never connect the power cord when the turntable is not installed.

● Don't attempt to turn the turntable counterclockwise by hand.

To remove the dust cover

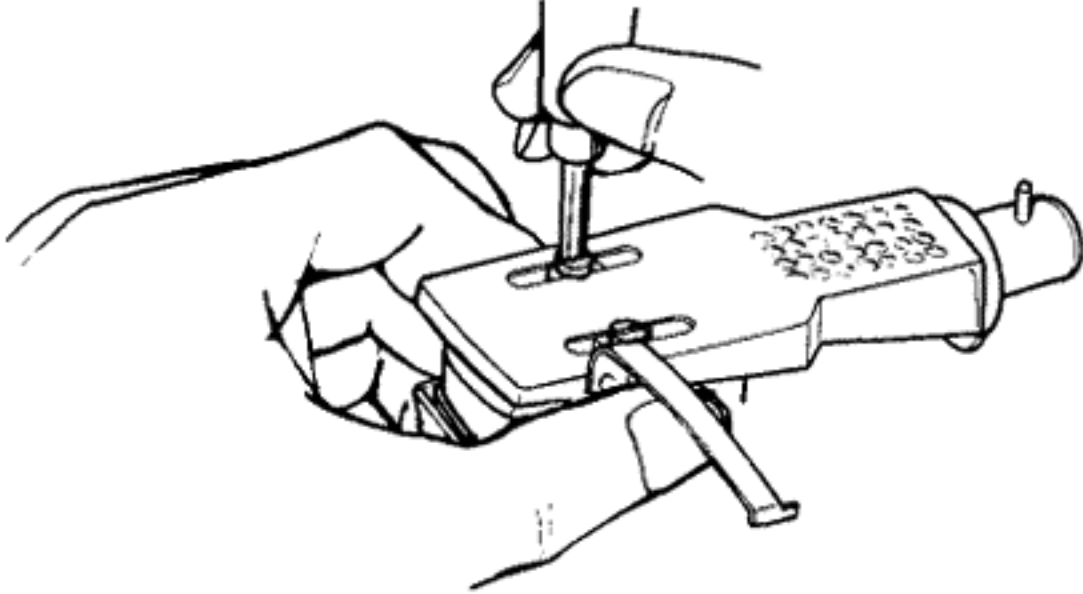
Open the dust cover by holding with both hands and lift it upwards.



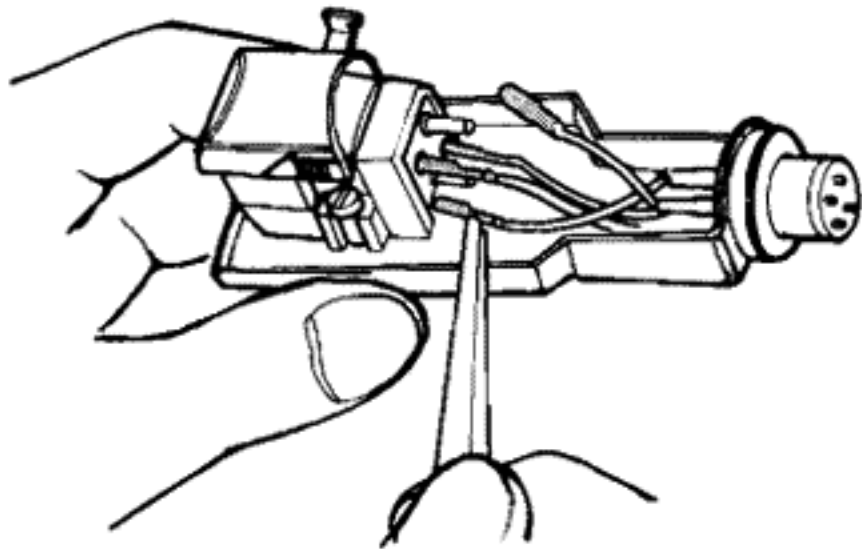
CARTRIDGE INSTALLATION

A cartridge weighing between 4g-16.5g can be used with the supplied shell (7.5g). If your cartridge is heavier than 12.5g (up to 16.5g), install the extra weight.

1. Install the cartridge in the shell with two of the supplied mounting screws. Three pairs of screws of various lengths are supplied to accommodate cartridges of various heights.



2. Connect the lead wires to the corresponding pins on the cartridge.



White wire . . . L (left channel signal)

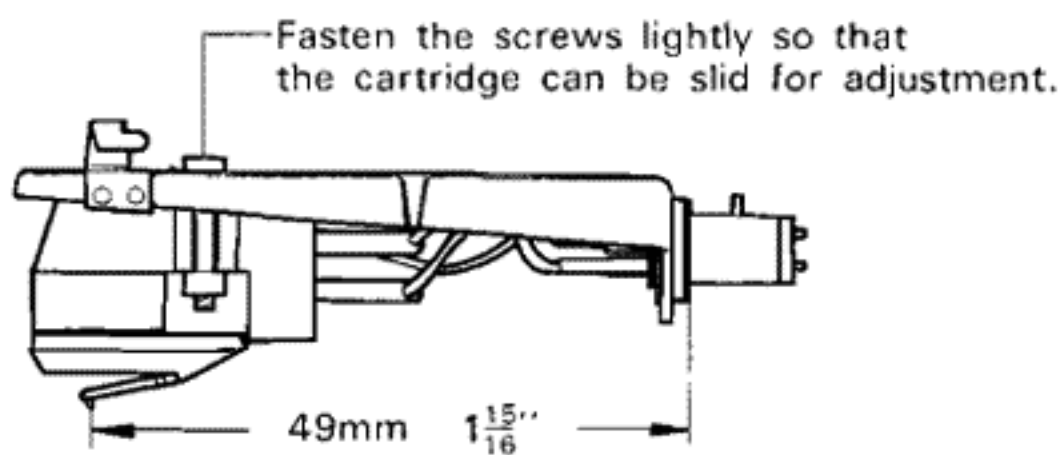
Blue wire . . . LE or G (left channel ground)

Red wire . . . R (right channel signal)

Green wire . . . RE or G (right channel ground)

3. Confirm that the cartridge is installed as illustrated.

If the following distance cannot be obtained, insert the supplied spacer under the shell.

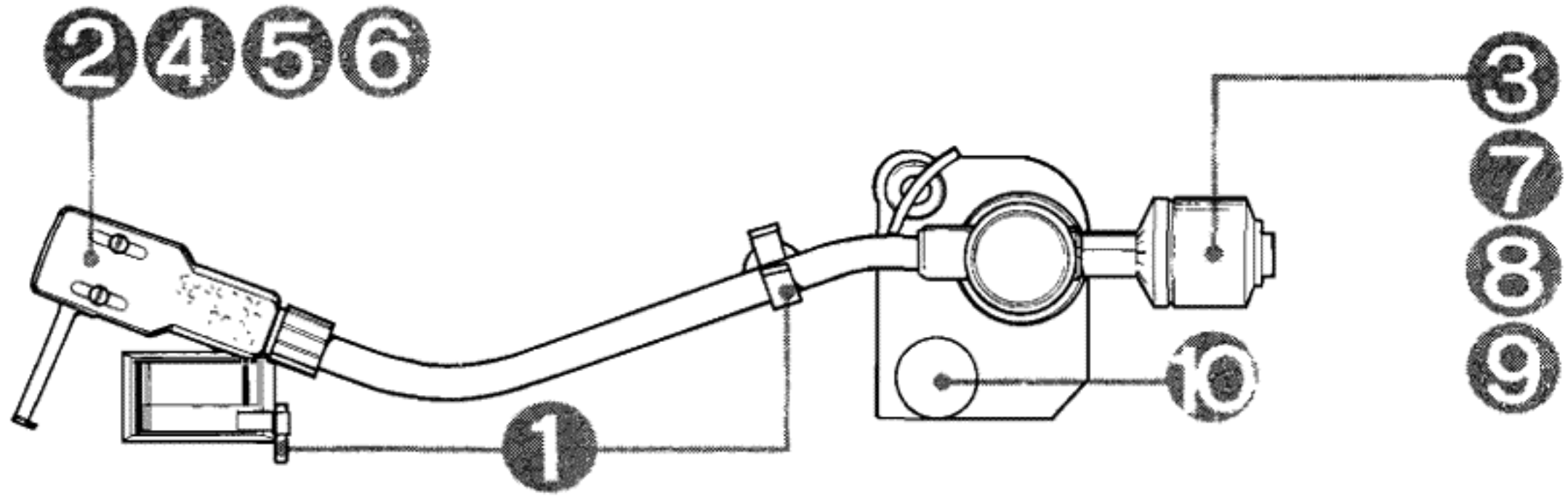


When using a shell other than the one supplied, install it in the same manner.

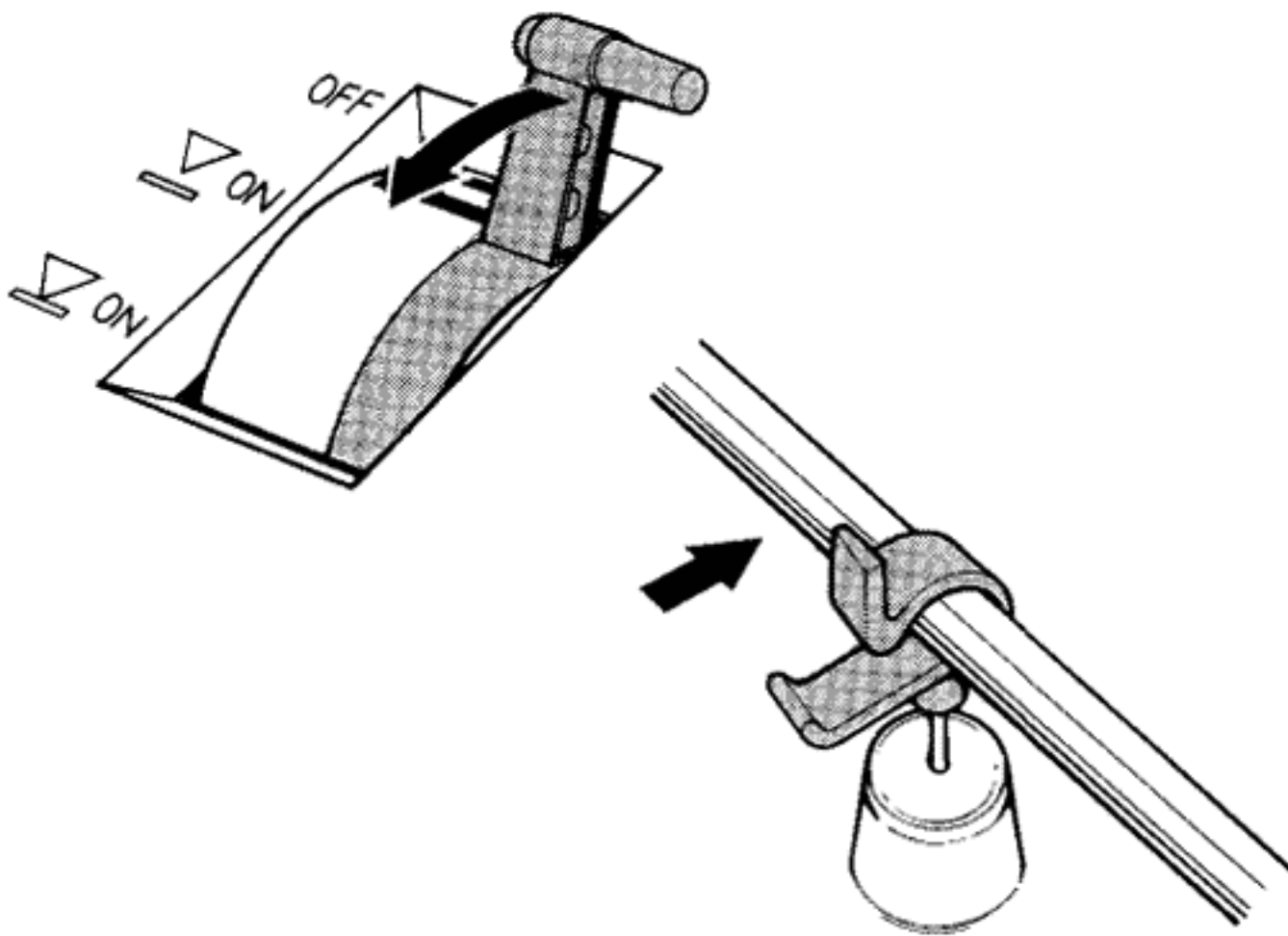
A storage space is provided on the base of the turntable for an extra mounted cartridge.

TONEARM ASSEMBLY AND ADJUSTMENTS

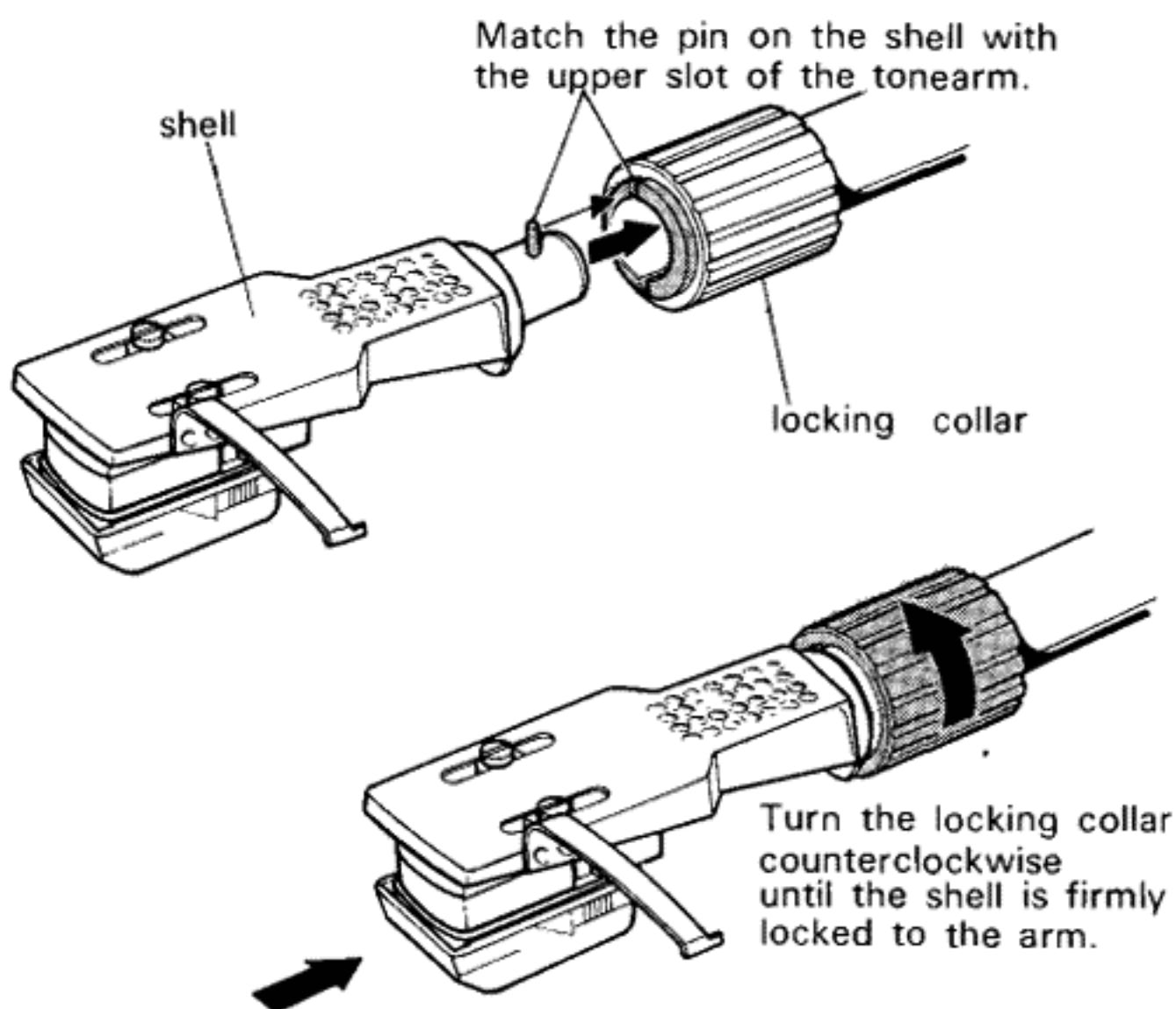
The following procedures should be performed on a level surface. When you change the cartridge, the operating steps after ⑤ will be required.



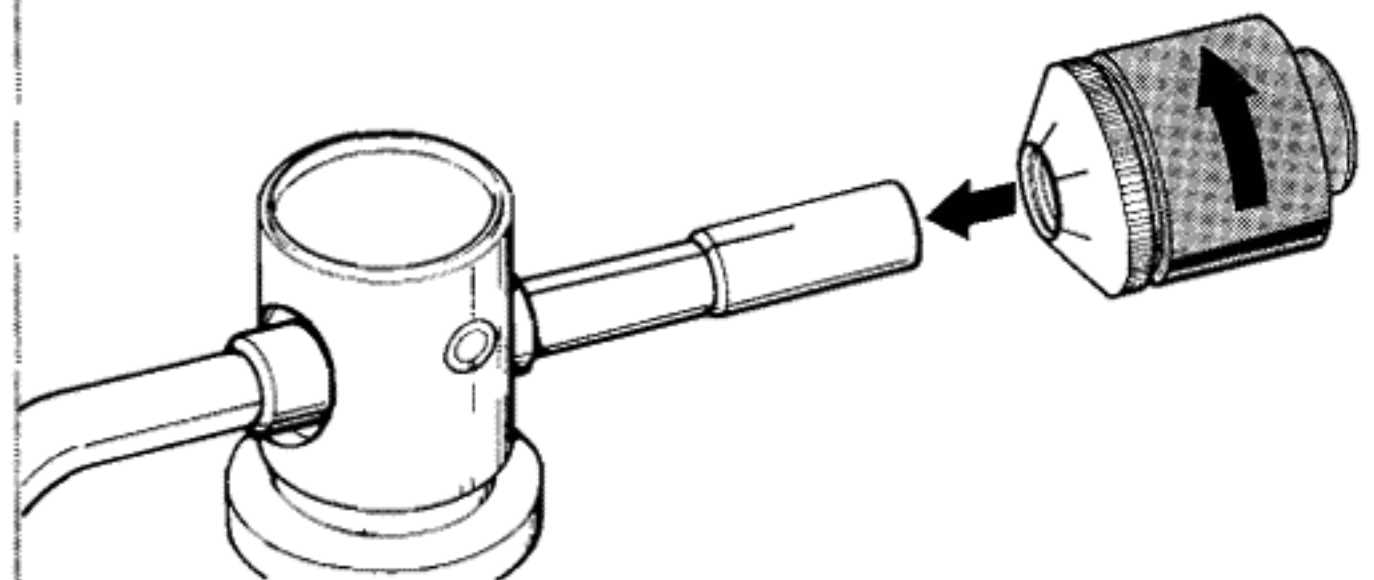
- 1 Place the POWER/CUE level at the forward **ON** position and secure the tonearm to the armrest.



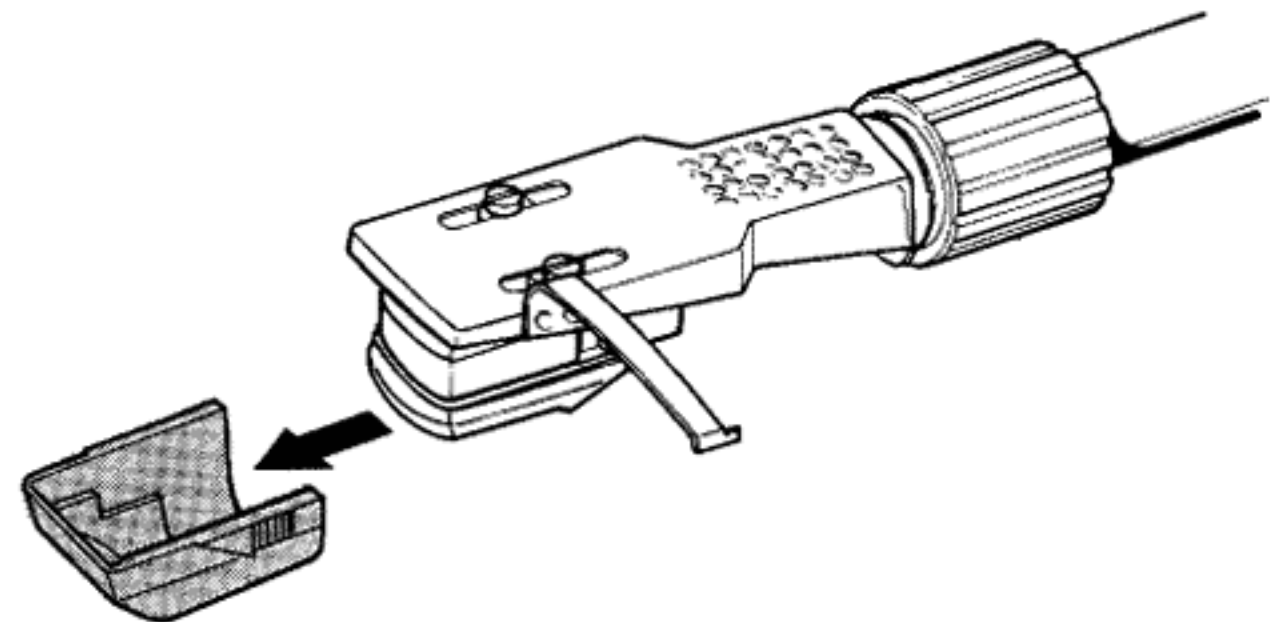
- 2 Plug the shell into the tonearm.



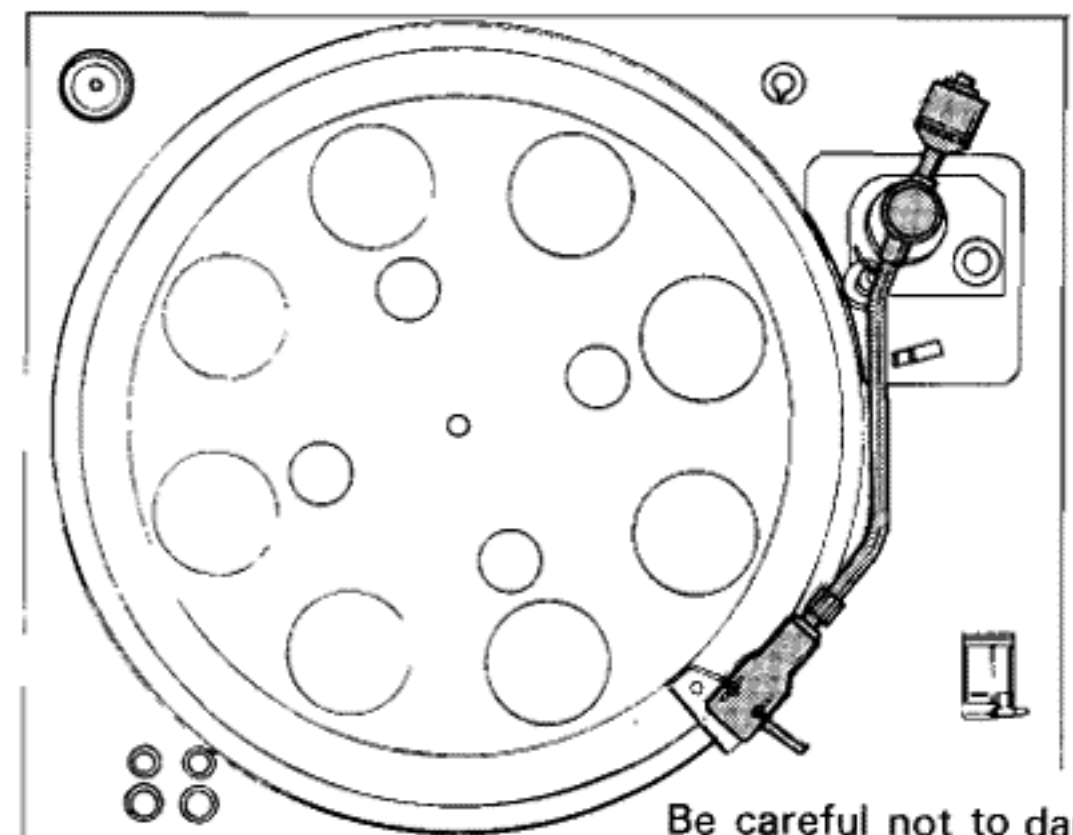
- 3 Insert the Counterweight and the Tracking-force ring by turning the weight counterclockwise. (The Tracking-force ring turns with the counterweight.)



- 4 Remove the stylus guard.



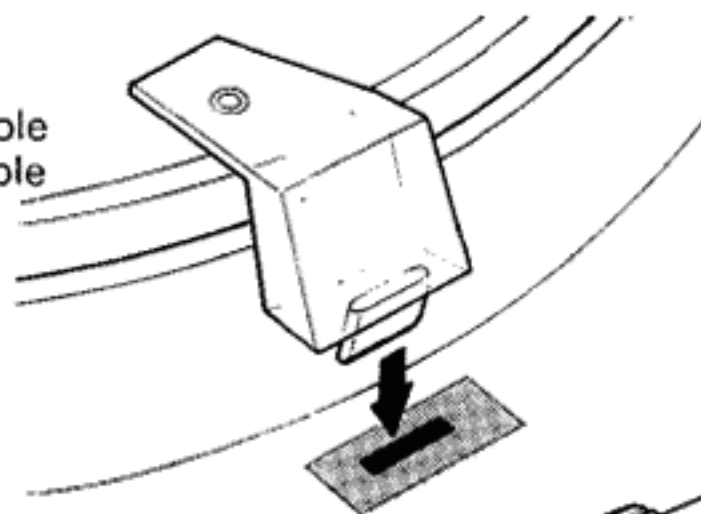
- 5 Release the tonearm from the armrest. (At this time, be careful not to damage the stylus tip by bumping against the turntable etc.)



Be careful not to damage the stylus tip.

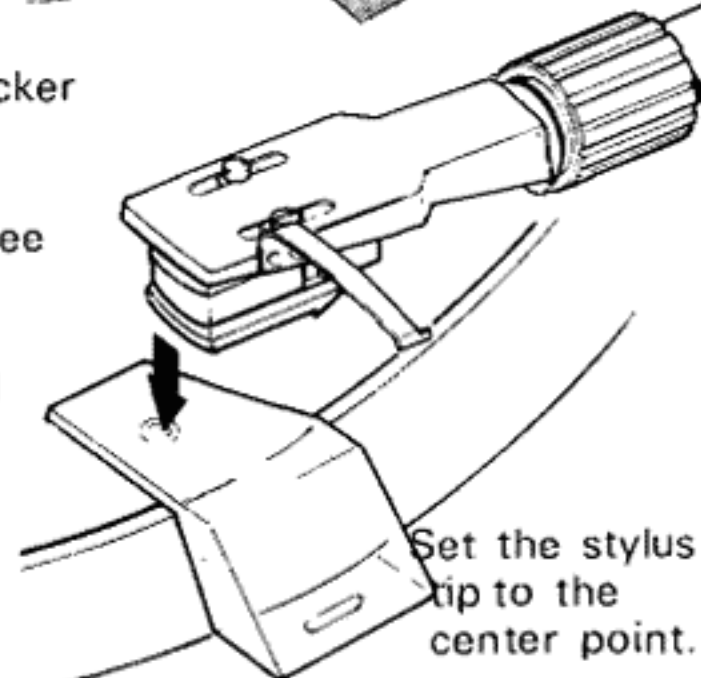
6 Ensure that the stylus overhang is set correctly by using the supplied overhang checker

1) Insert the checker into the hole at the rightside of the turntable

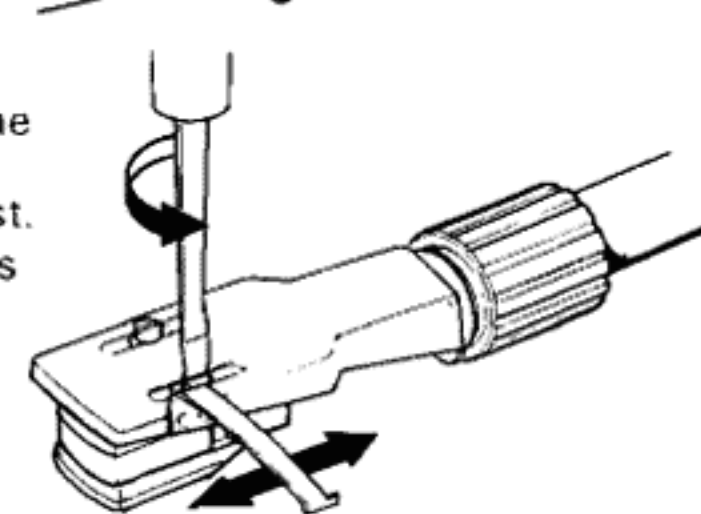


2) Bring the tonearm above the white round mark of the checker

3) By holding the shell in a horizontal position, check to see that the stylus-tip meets the center point of the white round mark. Avoid damaging the stylus-tip by bumping against the checker.



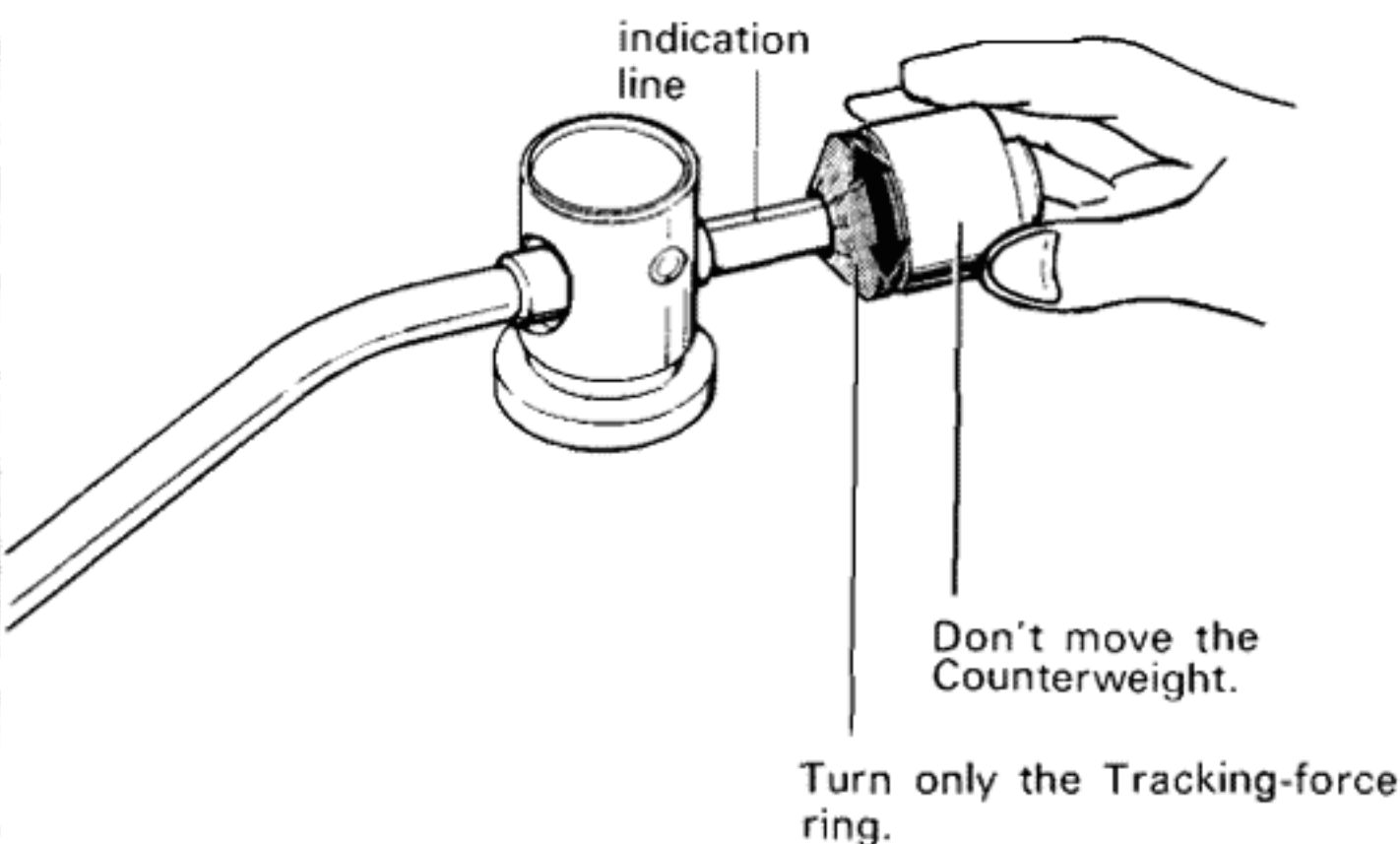
4) If the stylus-tip misses the center white point, readjust the shell. Secure the arm to the armrest. Slightly loosen the two screws and bring the tonearm again above the white point of the checker



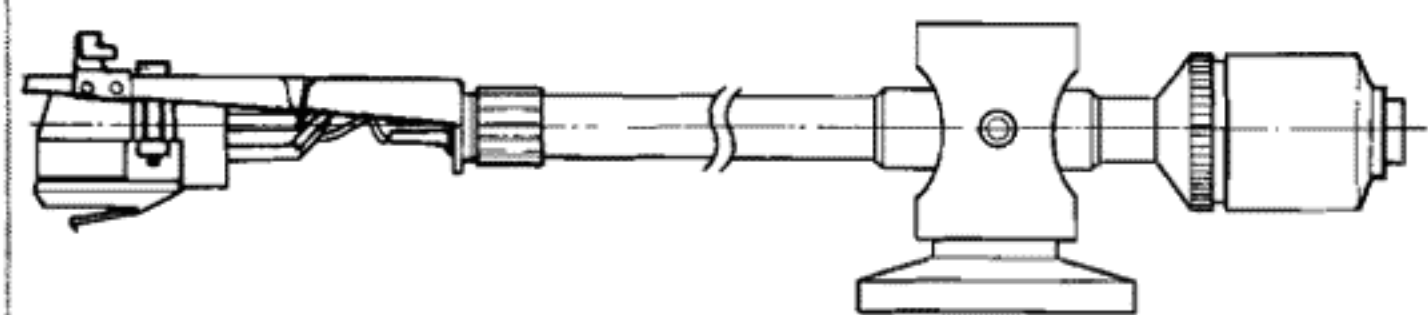
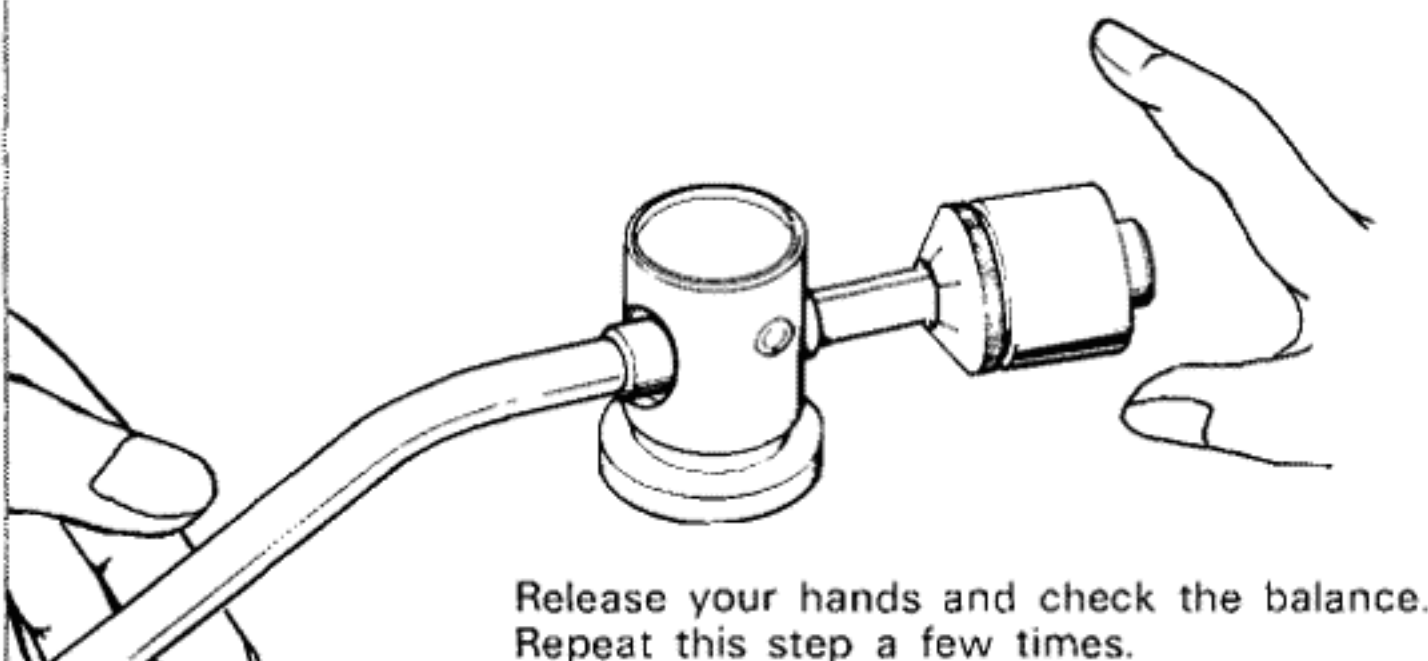
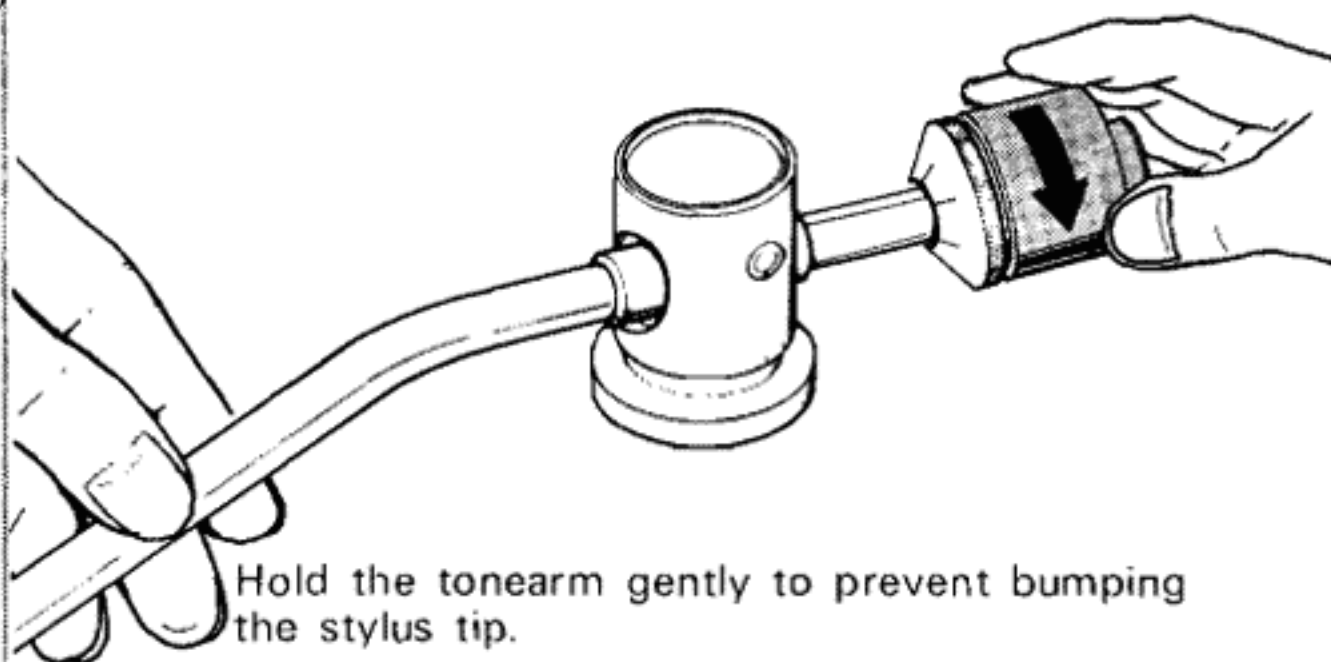
5) Adjust the cartridge position by sliding the cartridge a little forward or backward.

6) After determining the correct cartridge position, secure the arm to the armrest and fasten the screws firmly. There is no need to remove the overhang checker. It does not interfere with record playing.

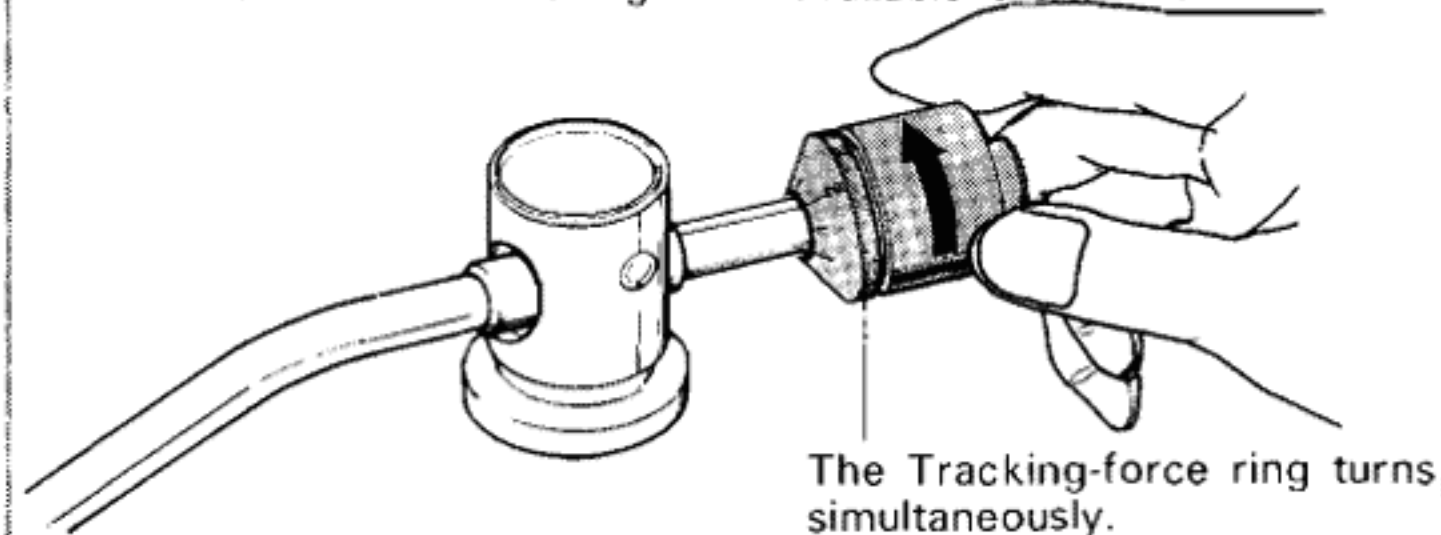
8 Secure the tonearm to the armrest again. While holding the Counterweight at the balanced position, separately turn the Tracking-force ring until the "O" indication meets the center line on the arm.



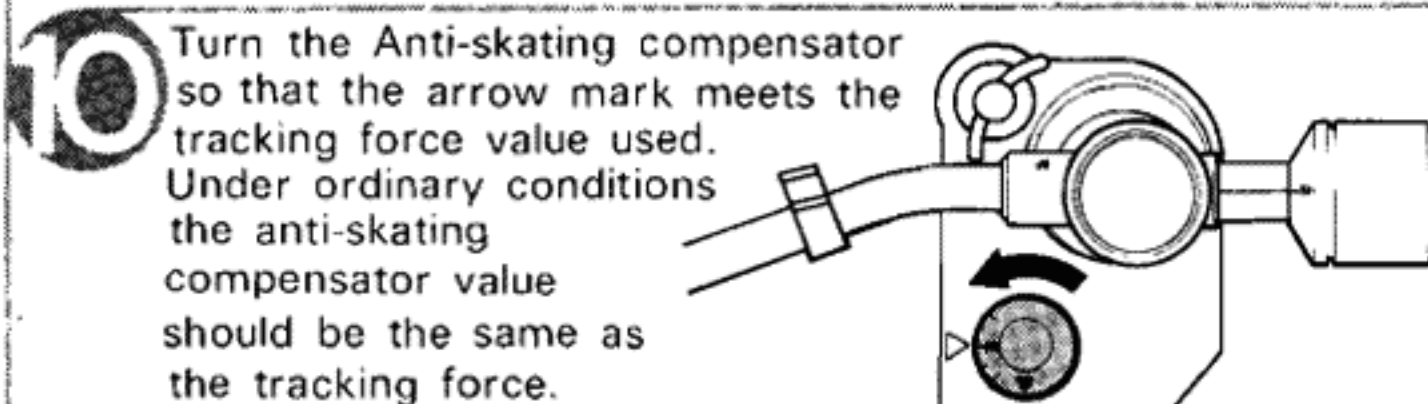
7 Turn the Counterweight clockwise until the tonearm is in the horizontal balanced position. (The Tracking-force ring turns simultaneously.)



9 Turn the Counterweight counterclockwise so that the recommended tracking-force figure for your cartridge is aligned with the center line on the arm. (The Tracking-force ring will turn at the same time.) The maximum tracking force available is 3 grams.



10 Turn the Anti-skating compensator so that the arrow mark meets the tracking force value used. Under ordinary conditions the anti-skating compensator value should be the same as the tracking force.





11 After the adjustments are complete, install the stylus guard onto the cartridge.

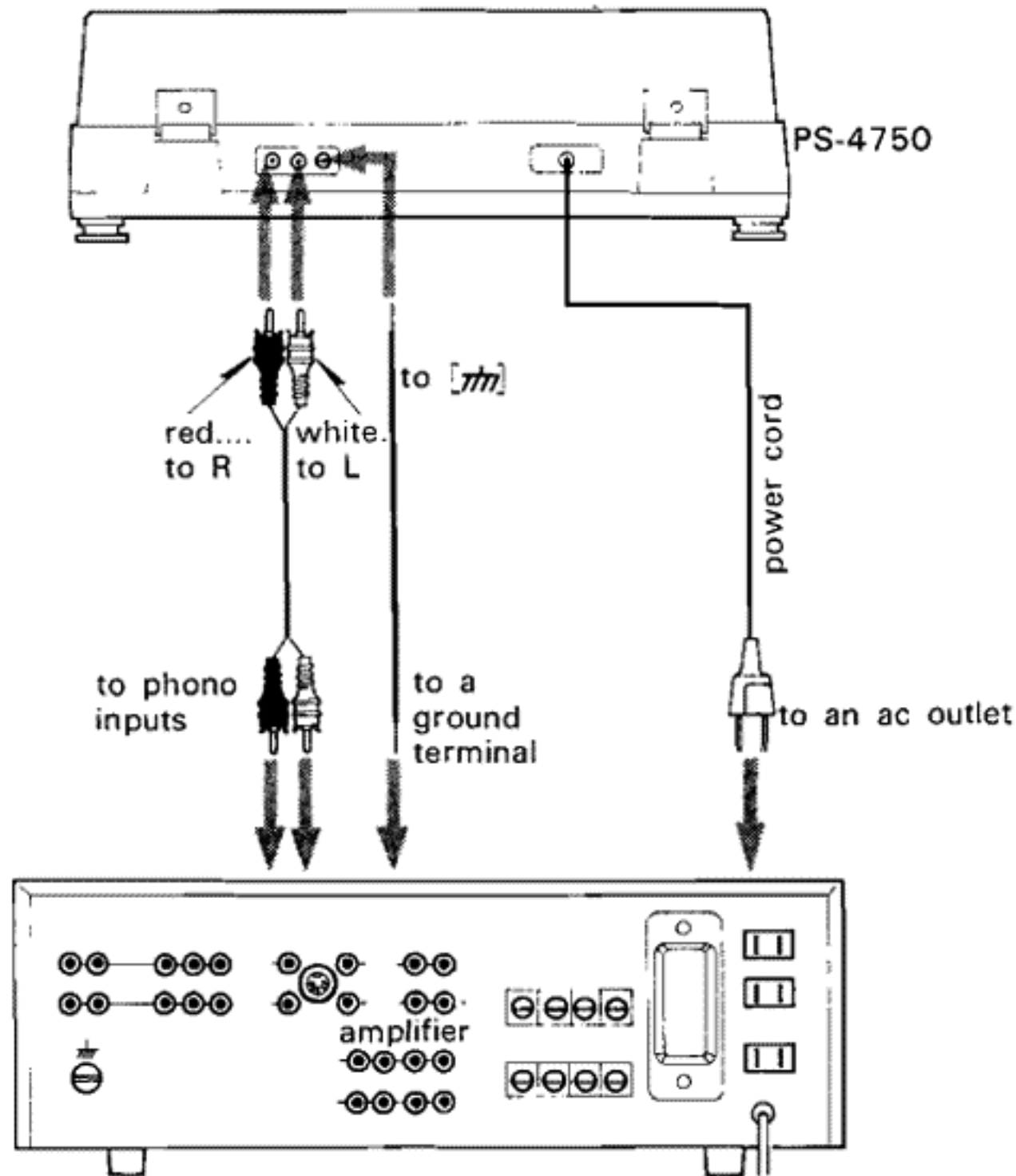
CONNECTIONS

Power cord: Connect to an ac outlet. If you use an amplifier ac outlet, connect it to one that is unswitched.

Phono cords: Connect the red plug to the Right channel of the player, white plug to the Left channel.

At the other end of the cord, connect the red plug to the Right channel of the amplifier, white plug to the Left channel.

Ground wire: Connect to the [] terminal of the player. At the other end of the cord, connect to the [] or [GROUND] terminal of the amplifier.



● Check that the phono cord and power cord are not caught under any foot of the case.

● Leave a little slack in the connecting cord to allow for inadvertent shock or vibration.

● To disconnect the power cord, pull it out by the plug. Never pull it by the cord.

TIPS ON RECORD HANDLING

Before playing

● For cleaning the stylus, use a soft brush (stylus brush, artist's paint brush etc.). Never clean the stylus with your finger tip.

● For routine cleaning of records, the use of a barely damp soft cloth (gauze etc.) or a fluid type cleaner will be effective. If a spray type record cleaner is used, make sure that the cleaner has dried completely before playing the records. Record playing while the fluid is still wet may damage the records.

It is a good idea to clean the record again before putting it away.

● Handle a record by its edges and don't touch the music grooves. Finger prints on the record surface may induce an accumulation of dust, resulting in impaired tone.



When record playing

● It is recommended that you reduce the amplifier volume before you lower the tonearm onto the record.

● While the turntable is energized, don't attempt to stop or reverse the turntable by hand.

● During play, be sure to close the dust cover. Don't place anything on the dust cover.

● While playing, never attempt to move the player or touch the tonearm.

After playing

● Avoid exposing records to any source of heat, such as direct sunlight, a hot-air duct, etc..

Store records vertically without applying any pressure or inclining to either side. This will minimize any warpage.

● When not using the player, close the dust cover.

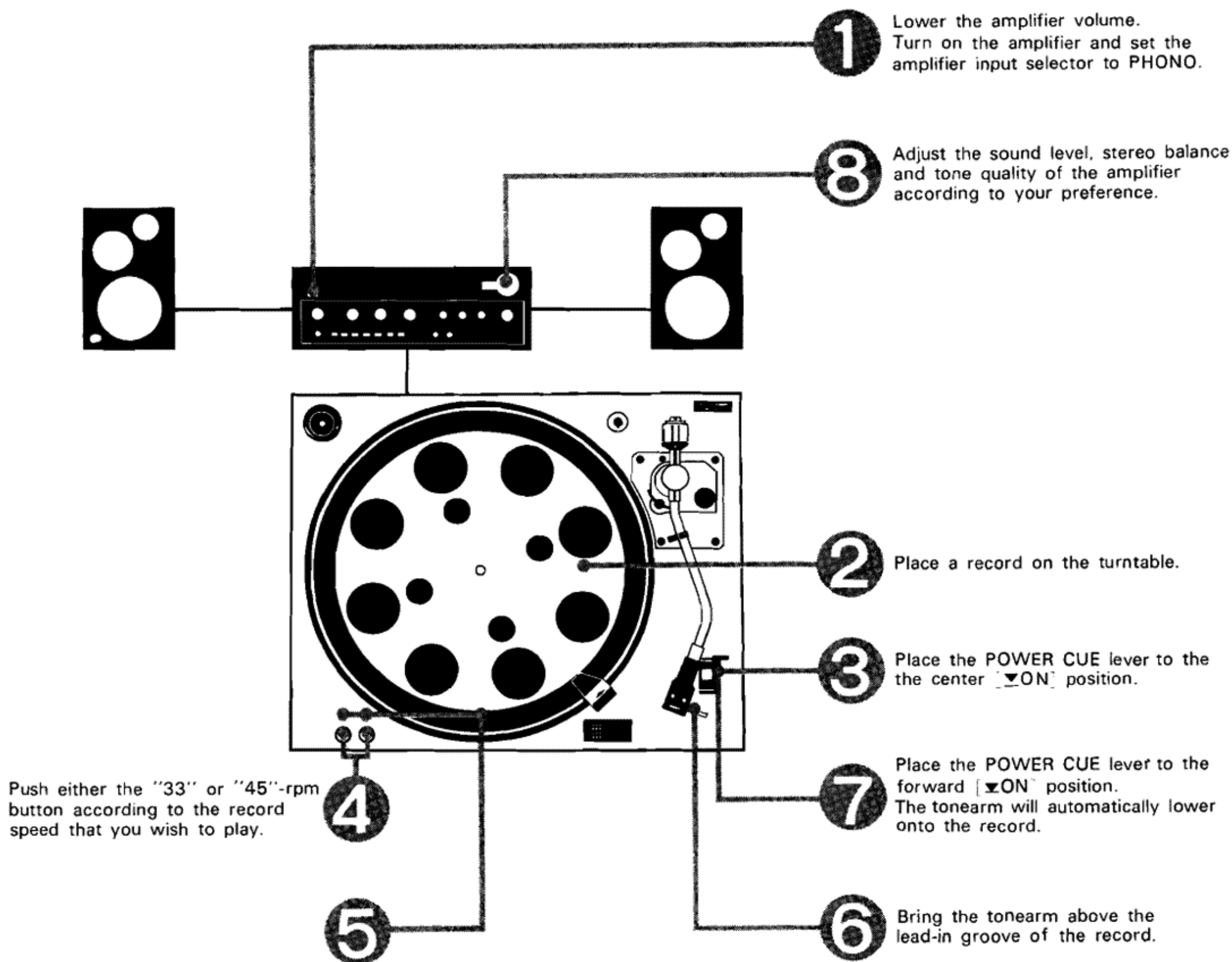
Other precautions

● Don't put anything but records on a turntable.

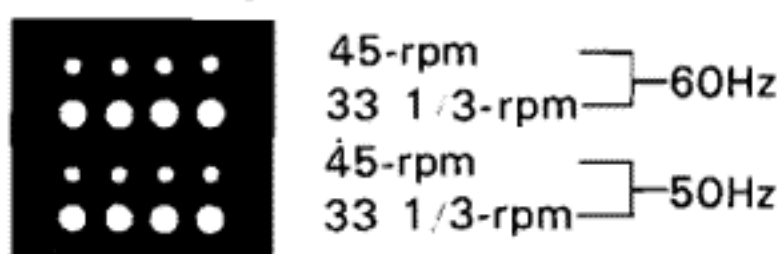
● Don't place anything but the spare cartridge and 45-rpm adaptor on the cabinet.

RECORD PLAYING

Follow in sequence the numbered operation of the diagram.



By viewing the stroboscope, adjust the speed with the Pitch control until the pattern appears stationary. For a 60Hz power line frequency area, adjust the Pitch control by referring to the inner two lines of the stroboscope.



- If the pattern moves to the right...Turn the control to the "F" (Fast) direction.
- If the pattern moves to the left...Turn the control to the "S" (Slow) direction.

● For 7-inch records, put the 45-rpm adaptor (supplied) over the spindle.


● To stop the turntable manually, set the POWER/CUE lever to the center [ON] position, and the tonearm will automatically rise. Then bring the tonearm to the rest and set the lever to the "OFF" position. The turntable will stop. Be sure to place the tonearm in the arm rest securely.

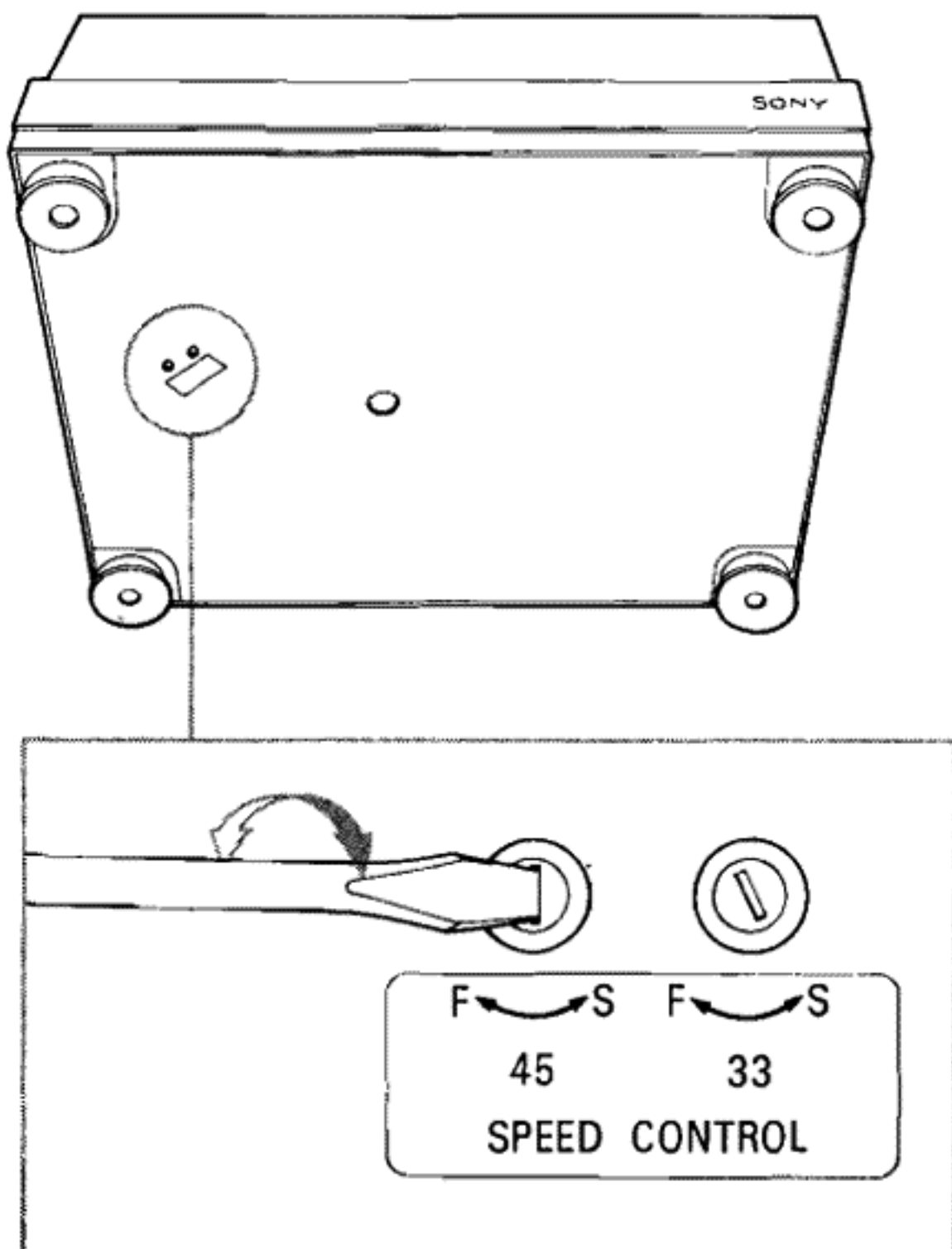
● The newly-developed rubber mat is designed to adhere to the record to absorb any record vibration.

To take off the record, gently lift it up from the turntable. If it is difficult to do so, first bring up one side of the record to facilitate the removal.

PITCH CONTROL RANGE ADJUSTMENT

If correct speed cannot be obtained by adjusting the Pitch controls, readjust the semi-fixed adjustment screws at the bottom of the case. For the 33 1/3-rpm adjustment, turn the 33 semi-fixed screw, for 45-rpm adjustment, the 45 semi-fixed screw.

1. Place the POWER/CUE lever to the center [ ON] position.
2. Center the 33 or 45 pitch control.
3. Push the 33-rpm button (or 45-rpm button) and energize the turntable. Slowly turn the "33" semi-fixed adjustment screw with the screw driver until the 33-rpm (or 45-rpm) stroboscope pattern for your power line frequency remains stationary. "F" ... make faster, "S" ... make slower



TROUBLE CHECKS

The following chart will help correct most troubles which may occur with the PS-4750. If the trouble persists after you have checked these items, consult your Sony dealer.

Impaired tone quality

- Turntable not level
- Improper tonearm balance (See ⑦, ⑧ on page 7.)
- Improper tracking-force
- Improper setting of the anti-skating compensator (See ⑩ on page 7.)
- Dusty stylus
- Worn stylus or defective record (The stylus life is approx. 400 hours of playing time.)
- Incorrectly placed on or near a speaker
- Incorrect cartridge installation
- Incorrect turntable speed

No audio from one channel

- Loose attachment of the shell to the tonearm (See ② on page 6.)
- Low volume level setting for one channel of the amplifier
- Loose connection of phono cord

Groove skipping, Tonearm tends to skate out. Tonearm does not advance. (record repeats.)

- Turntable not level
- Improper tracking-force
- Improper setting of the anti-skating compensator
- Defective record

Steady low-pitched sound (hum)

- Loose ground wire to the amplifier
- Loose connection between the shell and the tonearm
- Incorrect connection of the cartridge lead wires (See ② on page 5.)

SPECIFICATIONS

Turntable

Platter	13-3/8" (34 cm)
Drive system	SBMC (Sony Bulk Mould Compound) Dc servo-controlled motor, direct drive
Speed	33-1/3 rpm, 45 rpm
Wow and flutter	0.03% WRMS
S/N ratio	70 dB (DIN)

Tonearm

Type	Statically balanced, universal
Pivot to stylus length	9-11/32" (237 mm)
Overall arm length	12-3/8" (314 mm)
Overhang	15 mm
Tracking-force adjustment range	0 – 3 g
Shell weight	7.5 g
Cartridge weight range	4 – 12.5 g (without extra weight) 12.5 – 16.5 g (with extra weight)

General

Power requirements	120 V ac, 60 Hz
Power consumption	6 W
Weight	18 lb 12 oz 23 lb 6 oz (in shipping carton)
Dimensions	18-13/16×6-7/8×16-9/16" (w/h/d)
Supplied accessories	45-rpm adaptor Spacer for cartridge installation Three pairs of screws for cartridge installation Extra weight

Design and specifications subject to change without notice.

SERVO-CONTROLLED SYSTEM PRINCIPLE

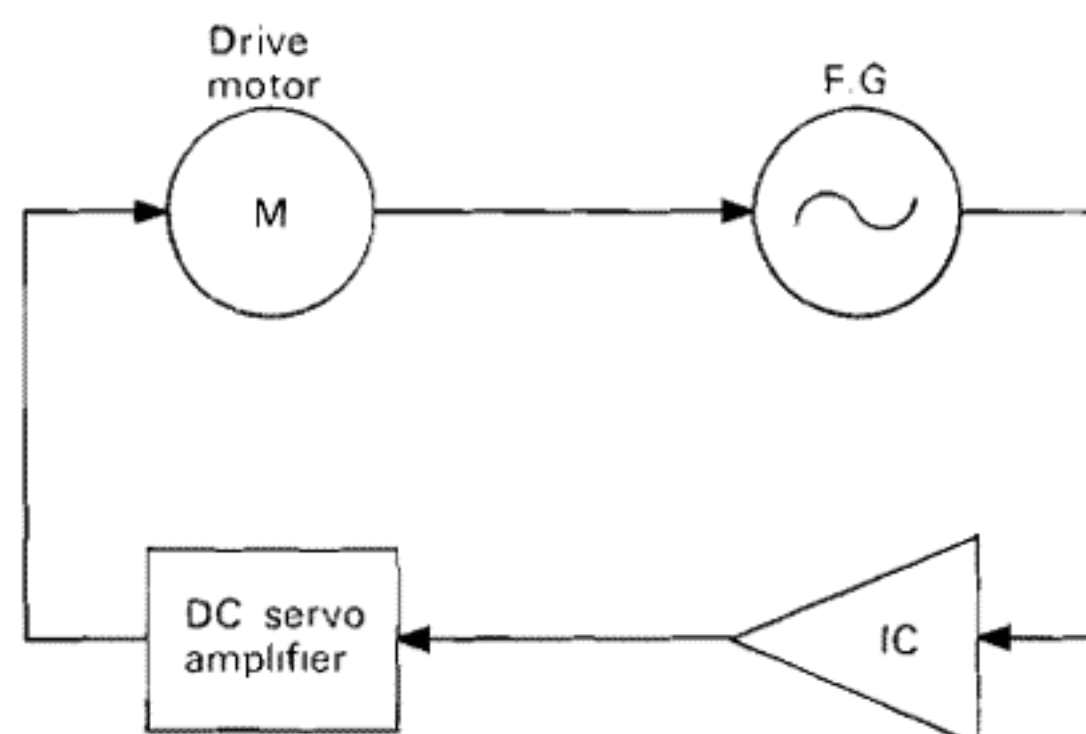
A servo-control system is one in which a driven device, in this case the turntable platter, furnishes an output signal proportional to its speed, then feeds back this signal into a control mechanism that regulates the input power to the driven device, so that the speed can be maintained constant at any predetermined value.

The servo-controlled system used in the PS-4750 consists of a dc motor (platter drive) a Frequency Generator (F.G.) incorporated in the platter itself, and an IC used as the regulating device, as shown in the block diagram.

When the power is turned on, the dc servo motor begins its operation. A frequency proportional to motor speed is produced by the F.G., then passed through the IC processing circuit where it is converted to a dc output proportional to input frequency. The dc output in turn controls the output of the dc servo-amplifier that powers the dc motor. Thus variations in the drive motor speed are automatically corrected.

If the motor speeds up due to external causes, the output of the F.G. increases in frequency. This decreases motor voltage to decrease the motor speed until the F.G. frequency returns to the nominal value. On the other hand, if the motor slows down due to external causes, the output of the F.G. decreases in frequency. This increases motor voltage to increase the motor speed until the F.G. frequency returns to the nominal value. Thus the servo-controlled system maintains an equilibrium condition at the nominal speed and the motor maintains its selected speed under varying operating conditions.

Pitch control knobs are provided for vernier adjustments that permit varying the rotational speed several percent above and below ($\pm 4\%$) the nominal values of 33-1/3 and 45 rpm.



REPACKING FOR SHIPMENT

The original shipping carton and packing material (which we asked you to save) is the ideal container for use in shipping the PS-4750 for repair work, or to another location. However, to secure the maximum protection, it must be repacked in this material precisely as before. The proper repacking procedure is shown in the illustration.

● Turn the two transit screws (painted red) fully clockwise to fasten the turntable to the cabinet.

