

Technics

SL-B35

Operating instructions



The model number of this product may be found on the back of the unit, and the serial number on the bottom of the unit.

Please note the model and serial numbers of this unit in the space provided and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

MODEL NUMBER

SL-B35

SERIAL NUMBER

Before operating this set, please read these instructions completely.

Thank you for choosing the SL-B35.

For optimum performance and safety, please read these instructions carefully.

Dear Stereo Fan

Technics. The science of sound. Our name represents over 100 high quality audio products, in every price range.

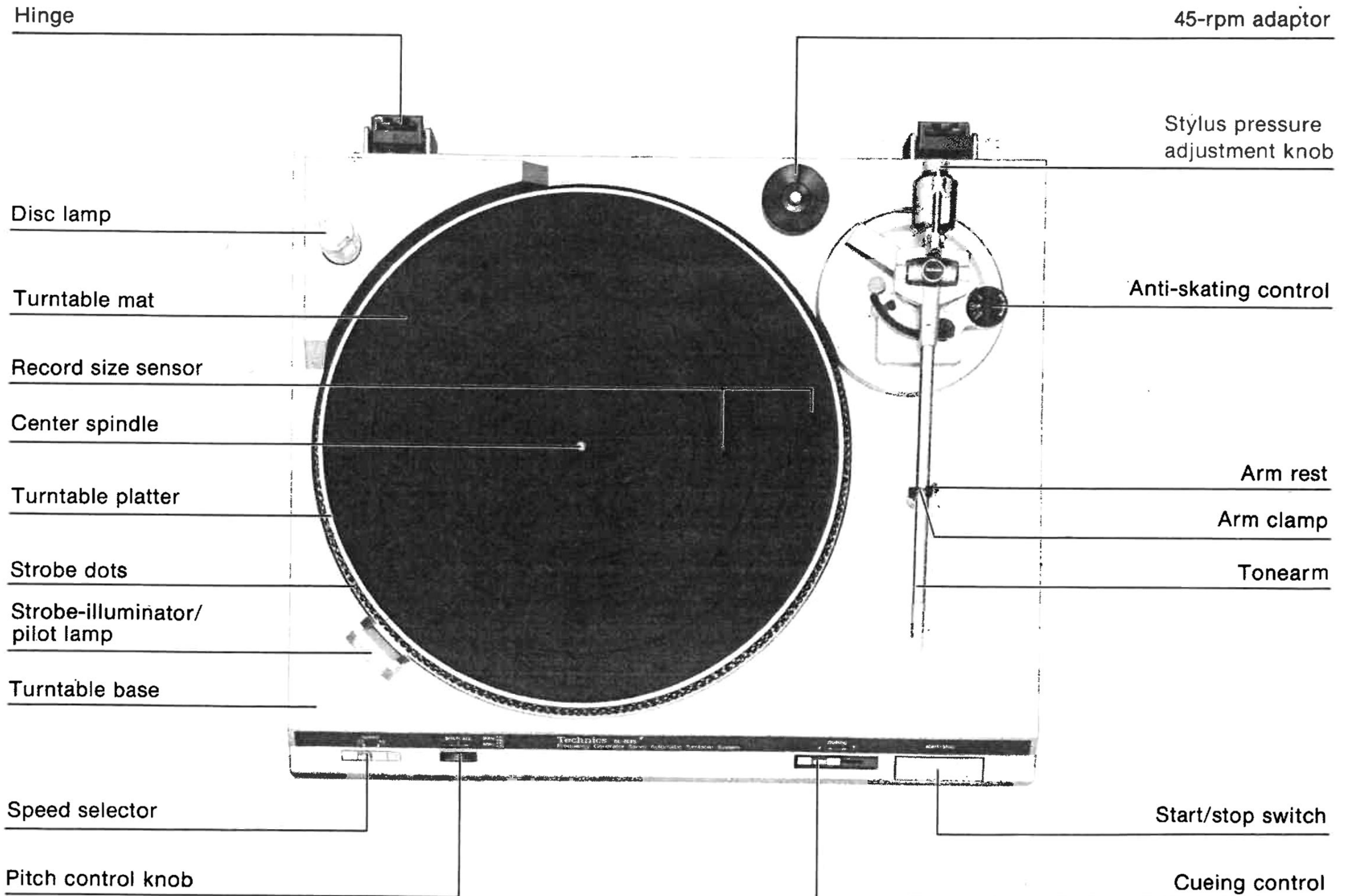
From our revolutionary direct drive turntables to our highly acclaimed linear phase speakers, Technics quality and value have become almost legendary among audio enthusiasts.

Our truly complete selection of turntables (including belt-drive, direct-drive, and quartz-locked models with varying degrees of automation) now includes an exciting line of linear tracking turntables with zero tracking error. Another innovation, direct drive cassette decks, is available in both slim and micro formats. In fact, with Technics micro series, you can assemble an entire

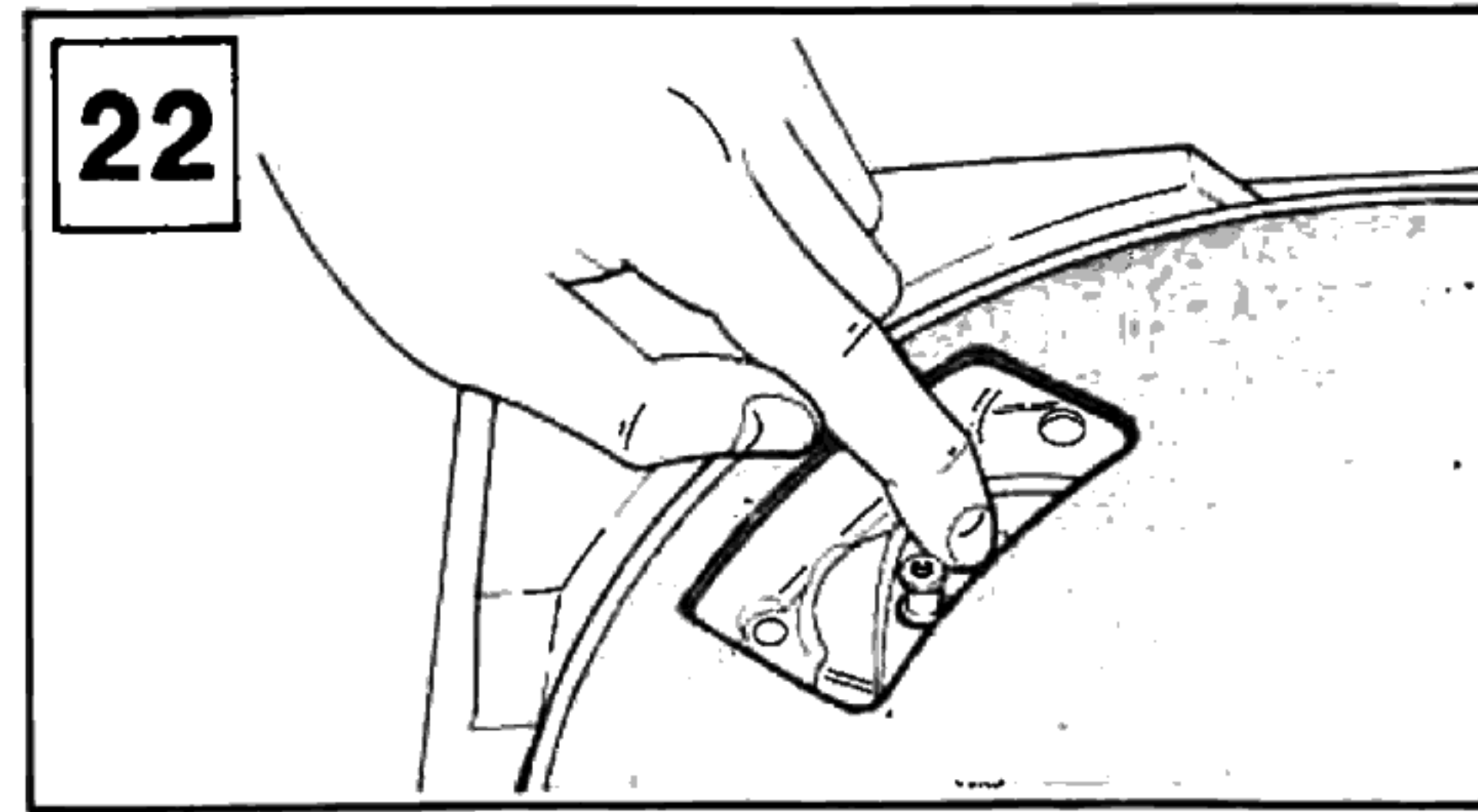
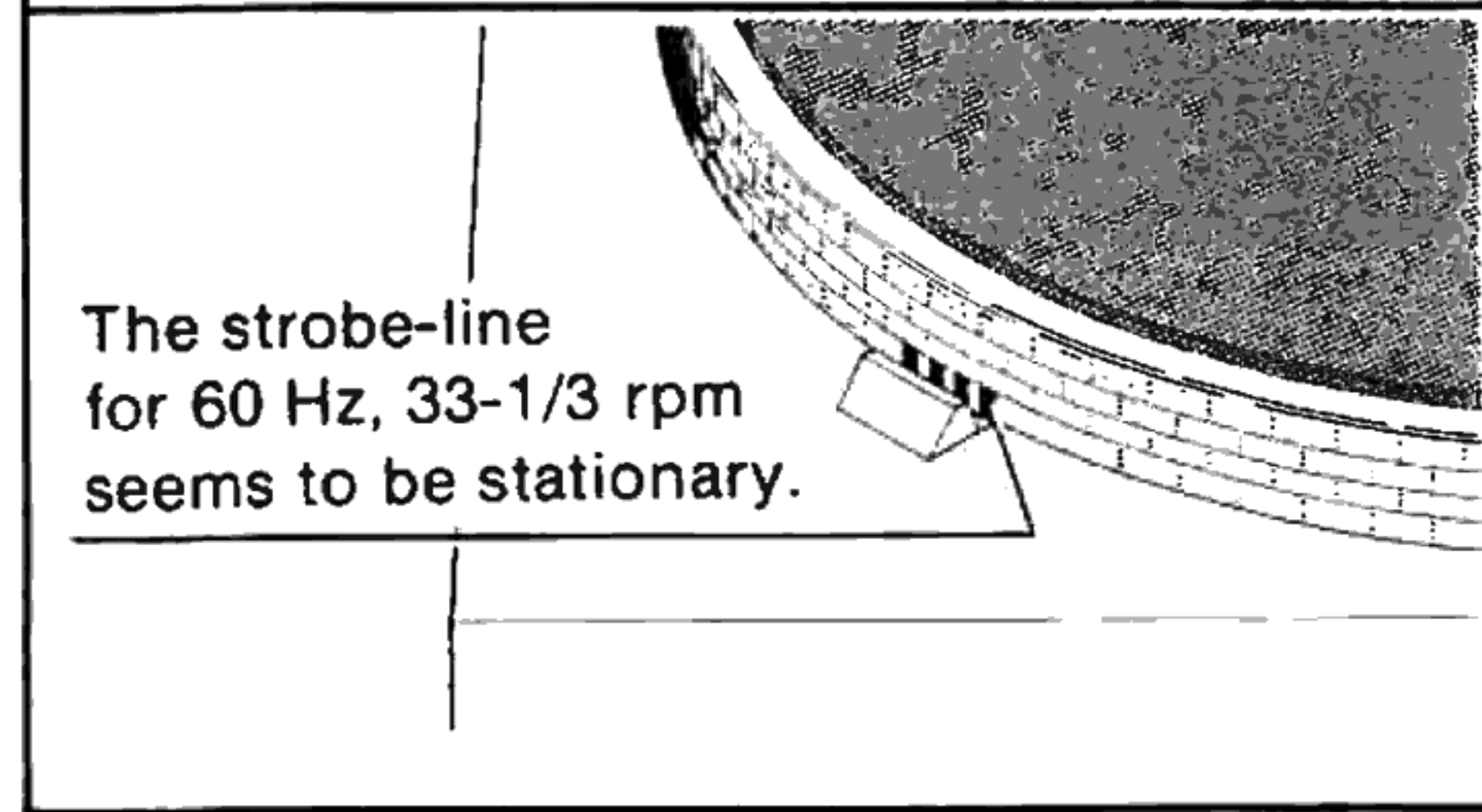
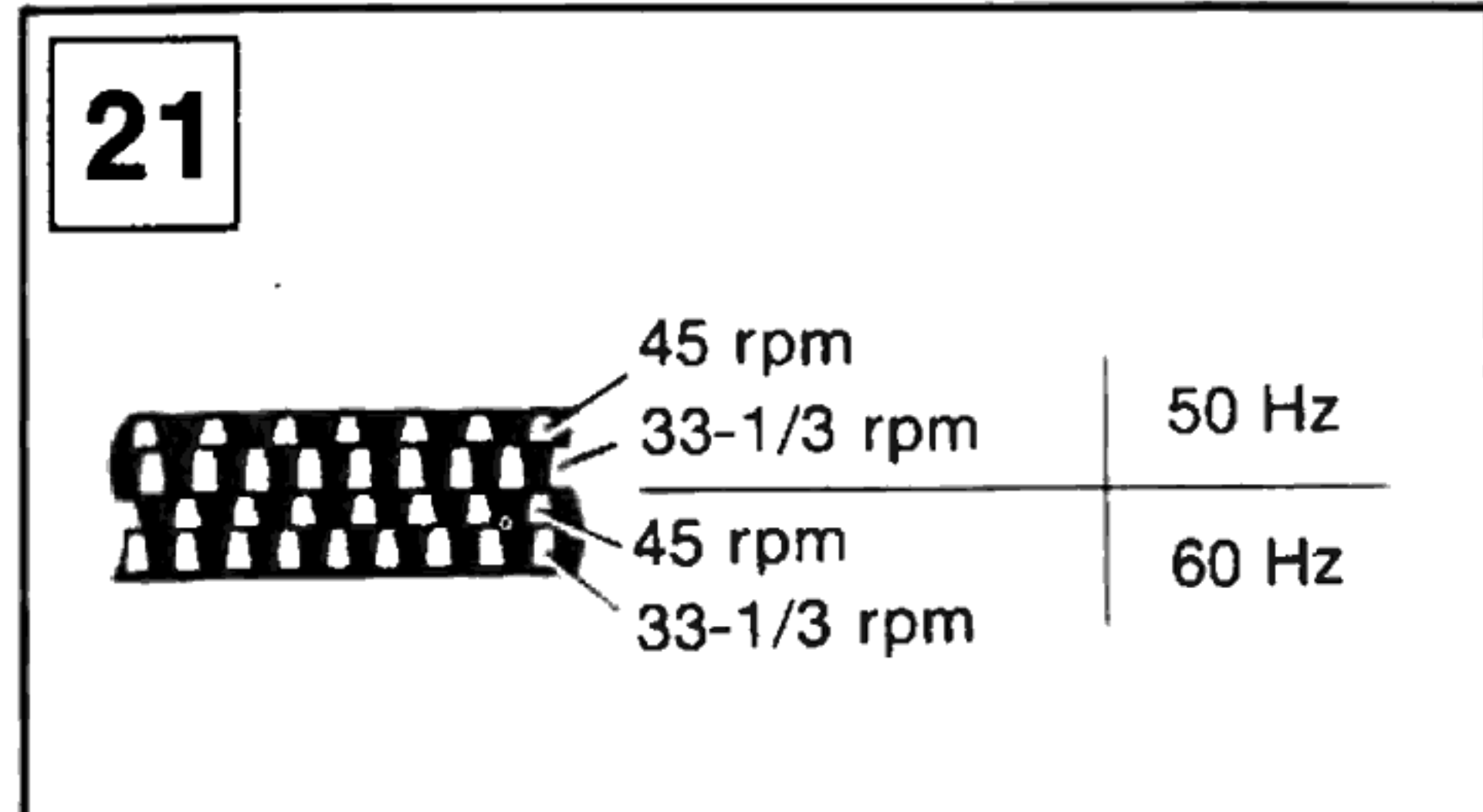
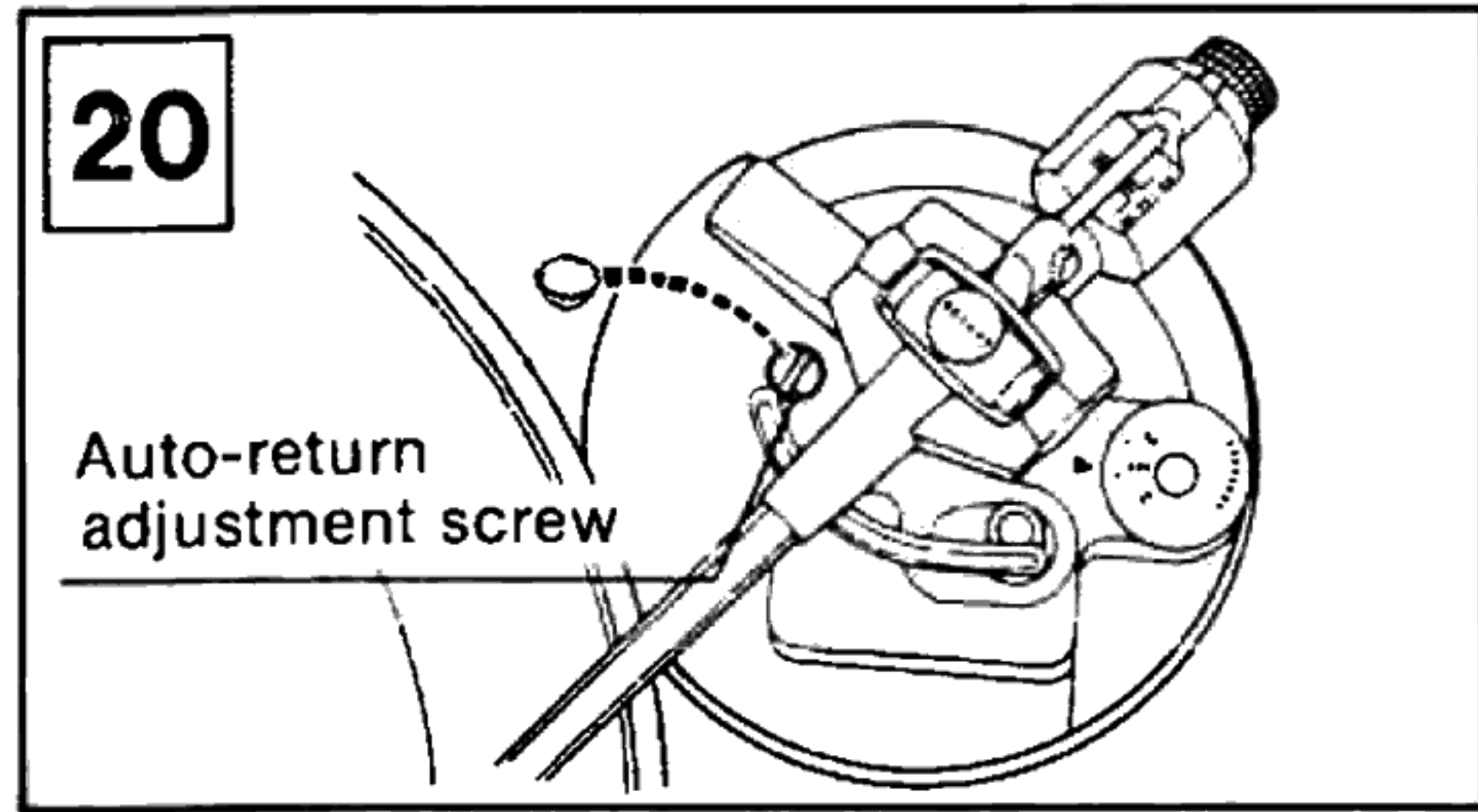
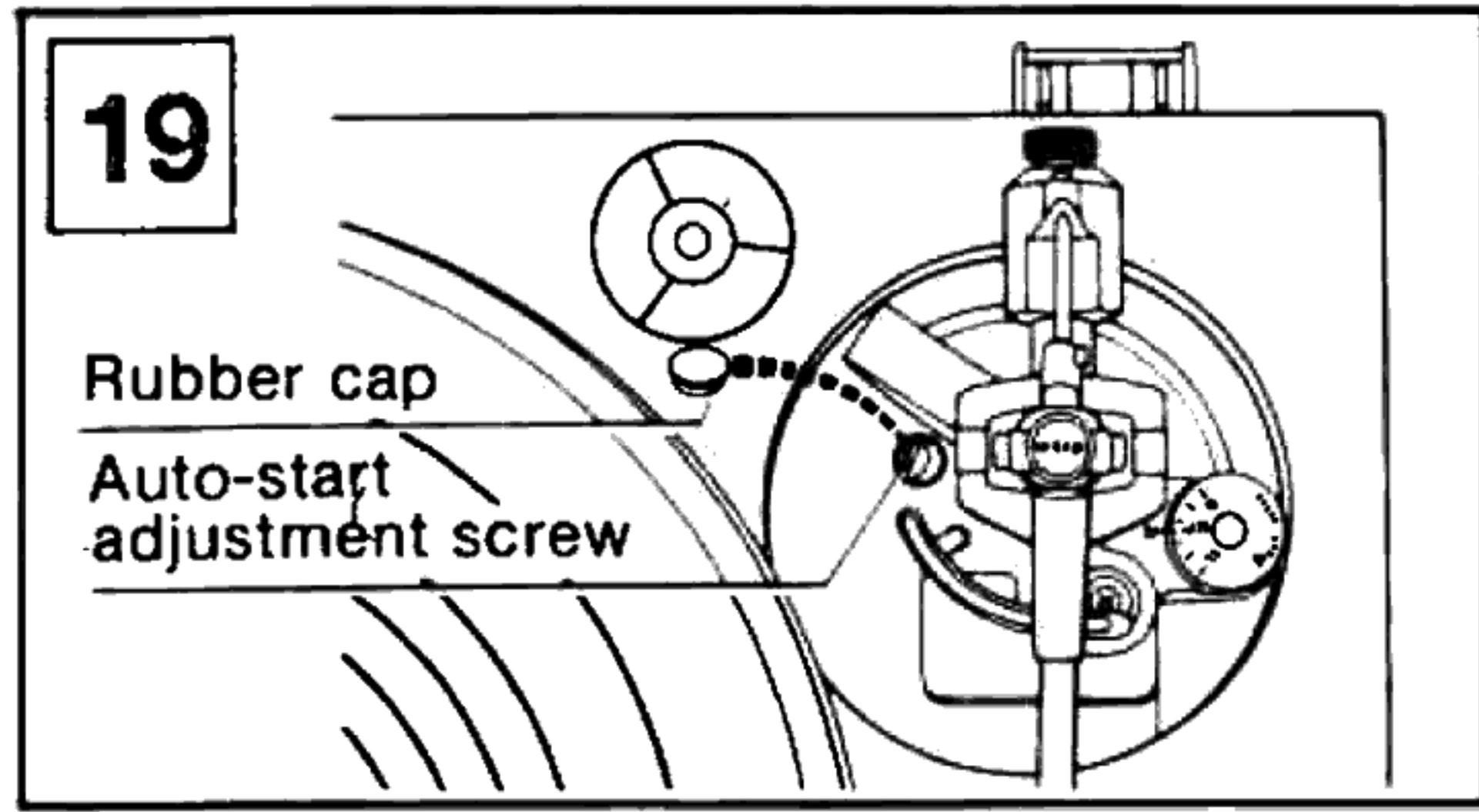
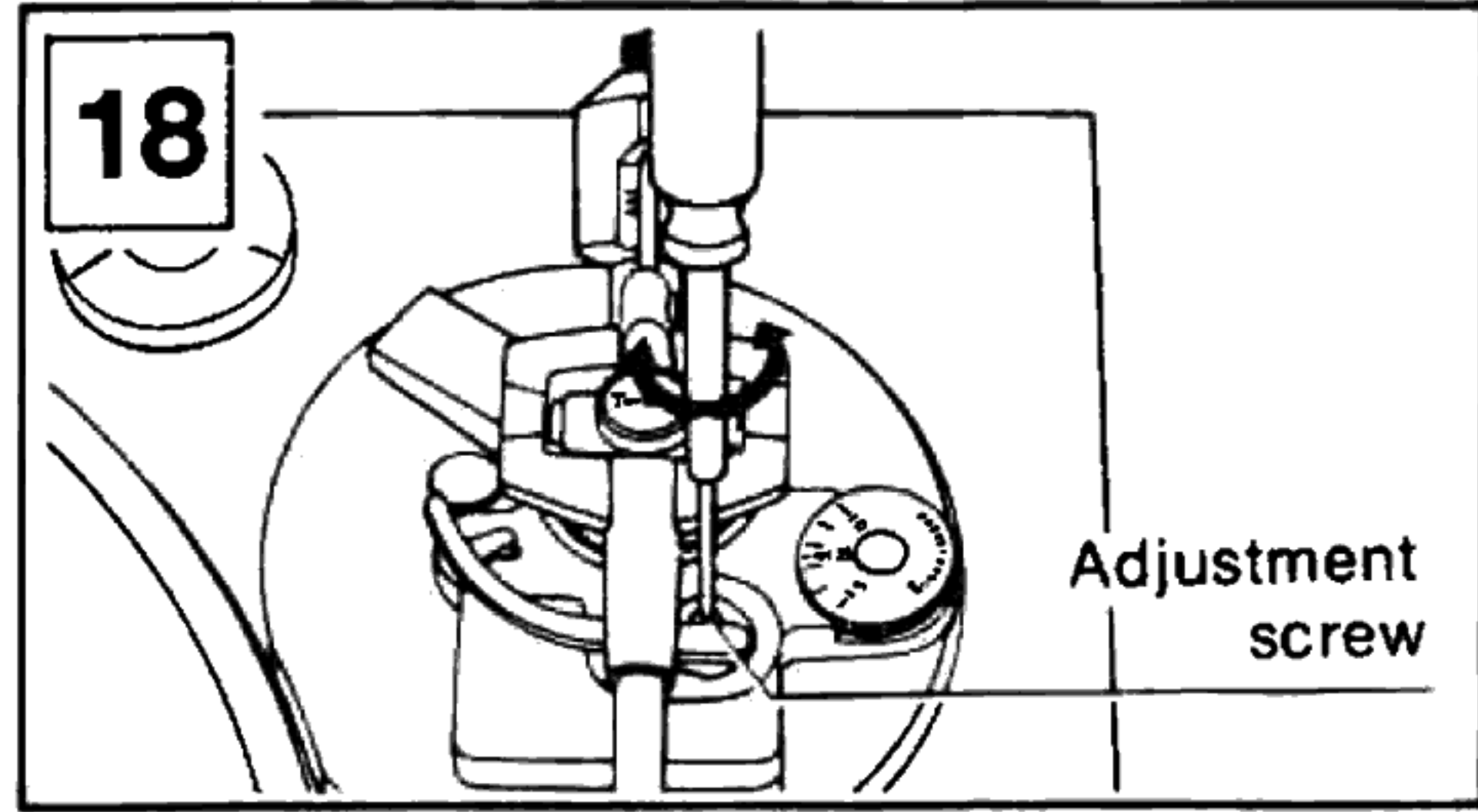
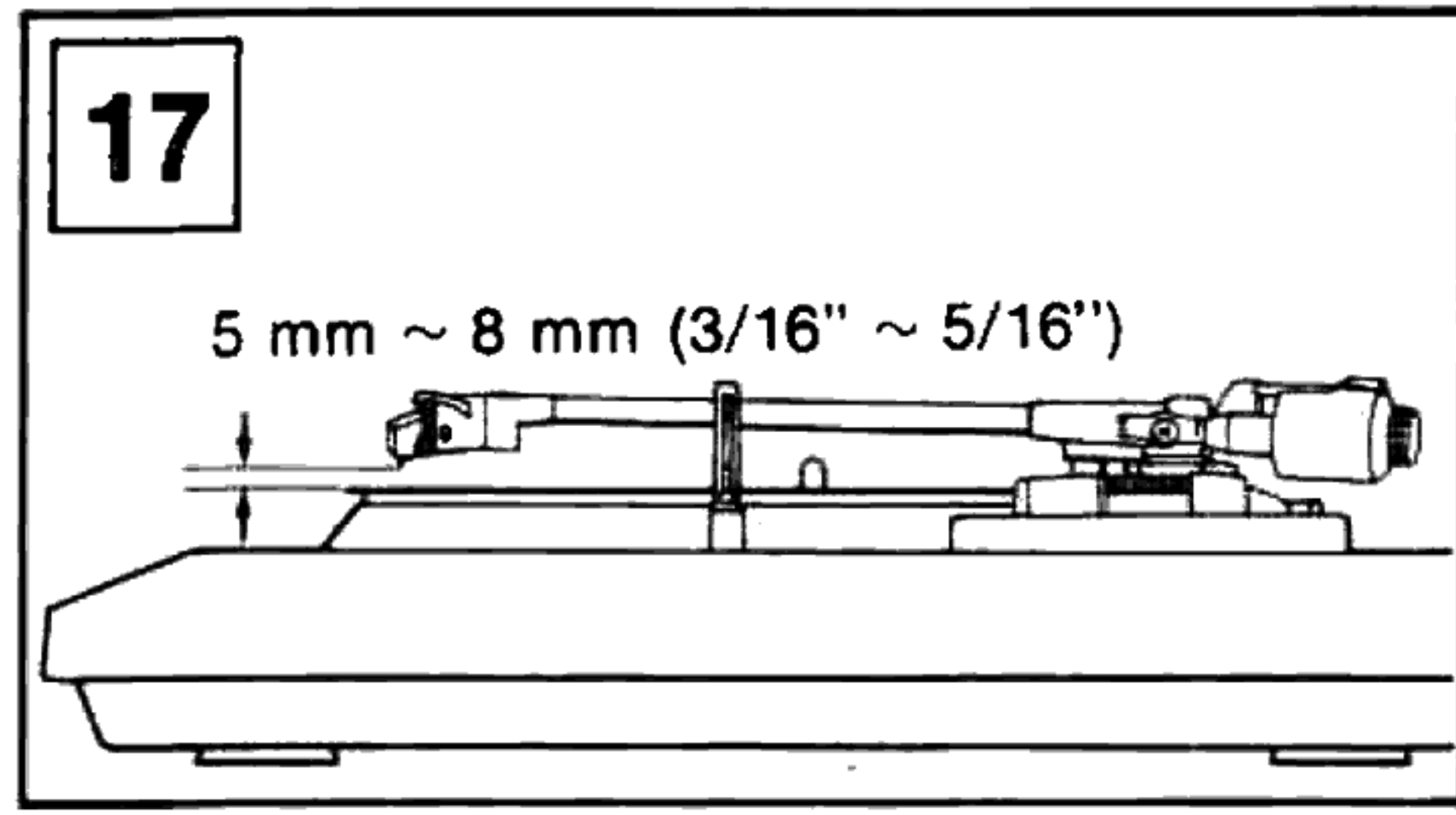
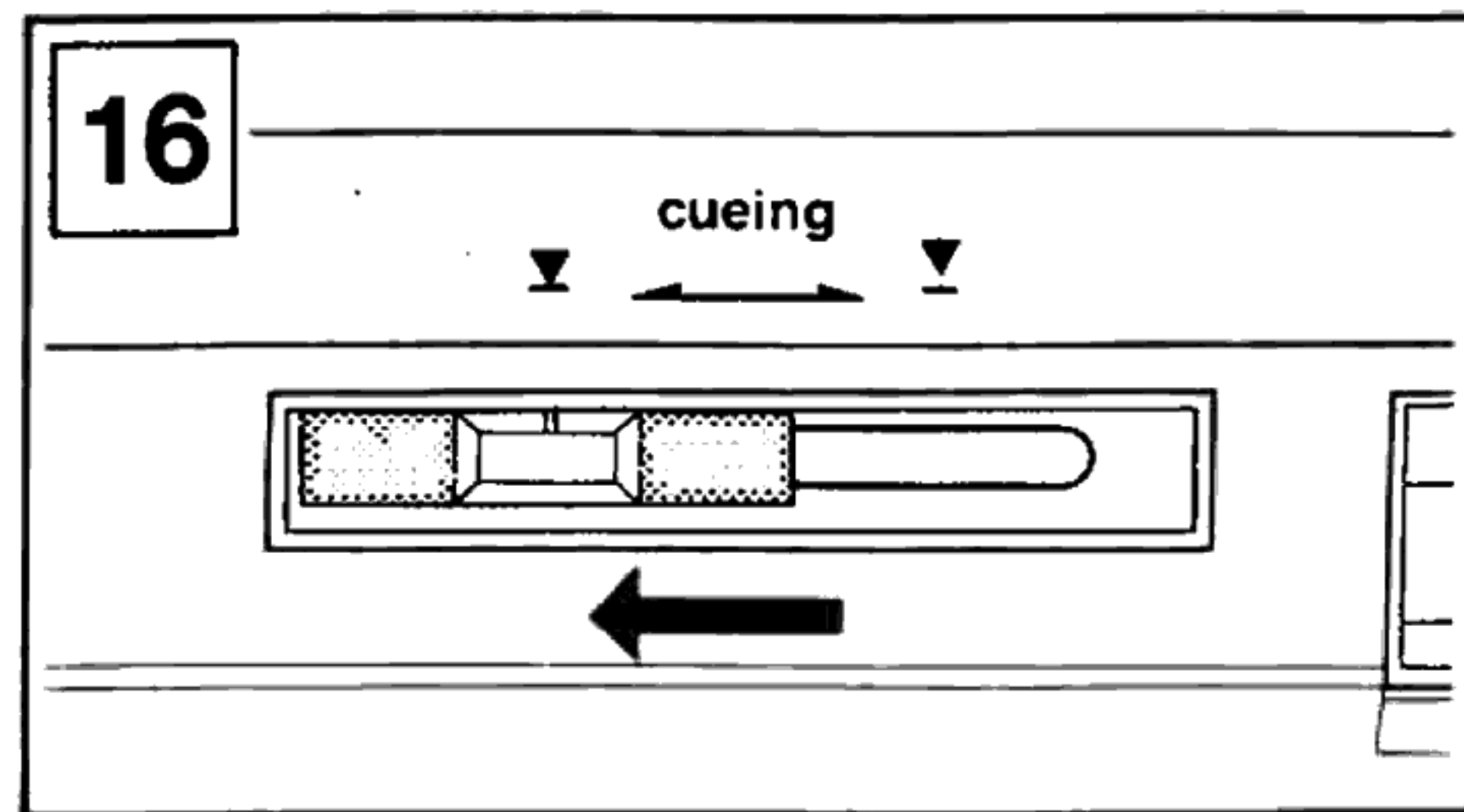
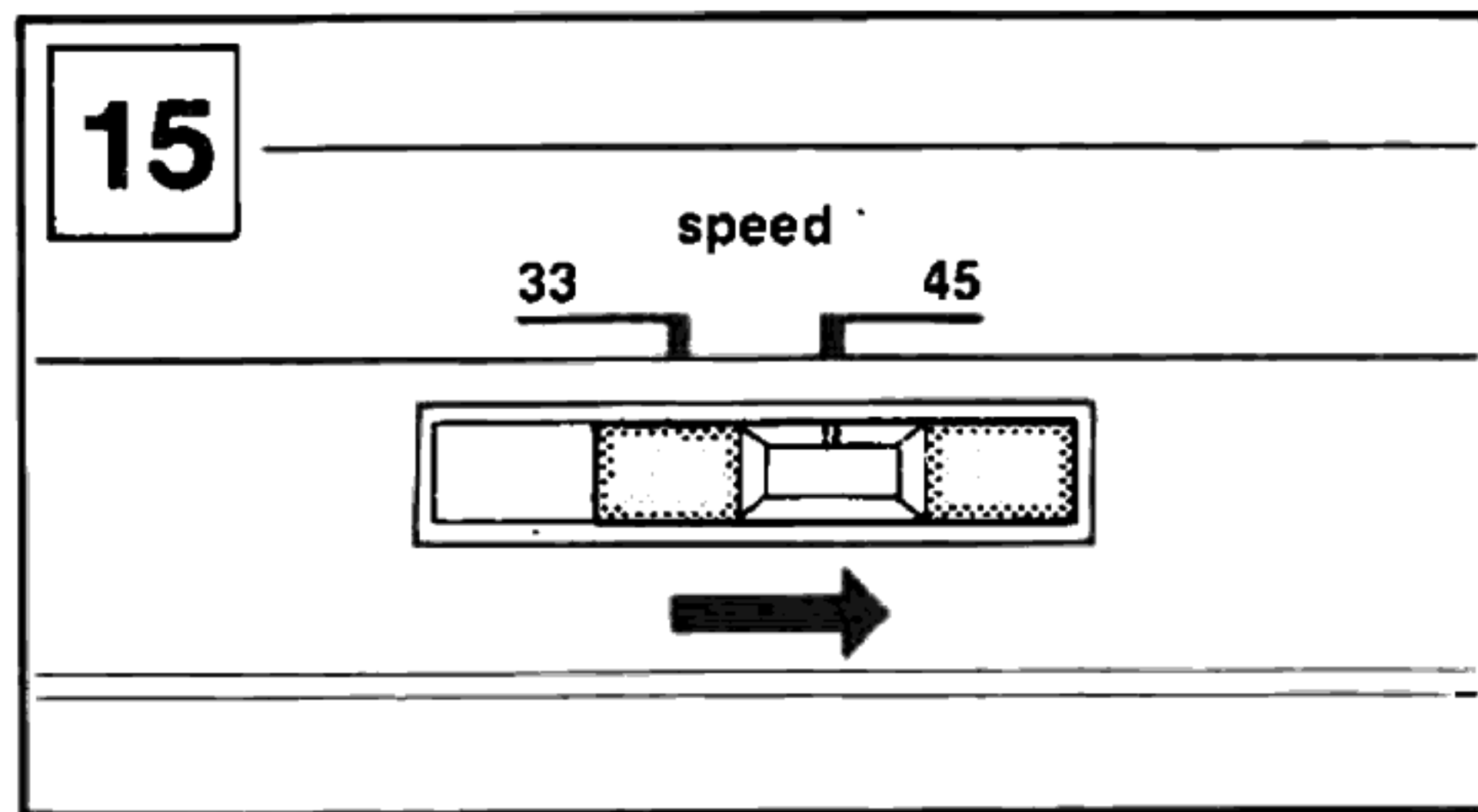
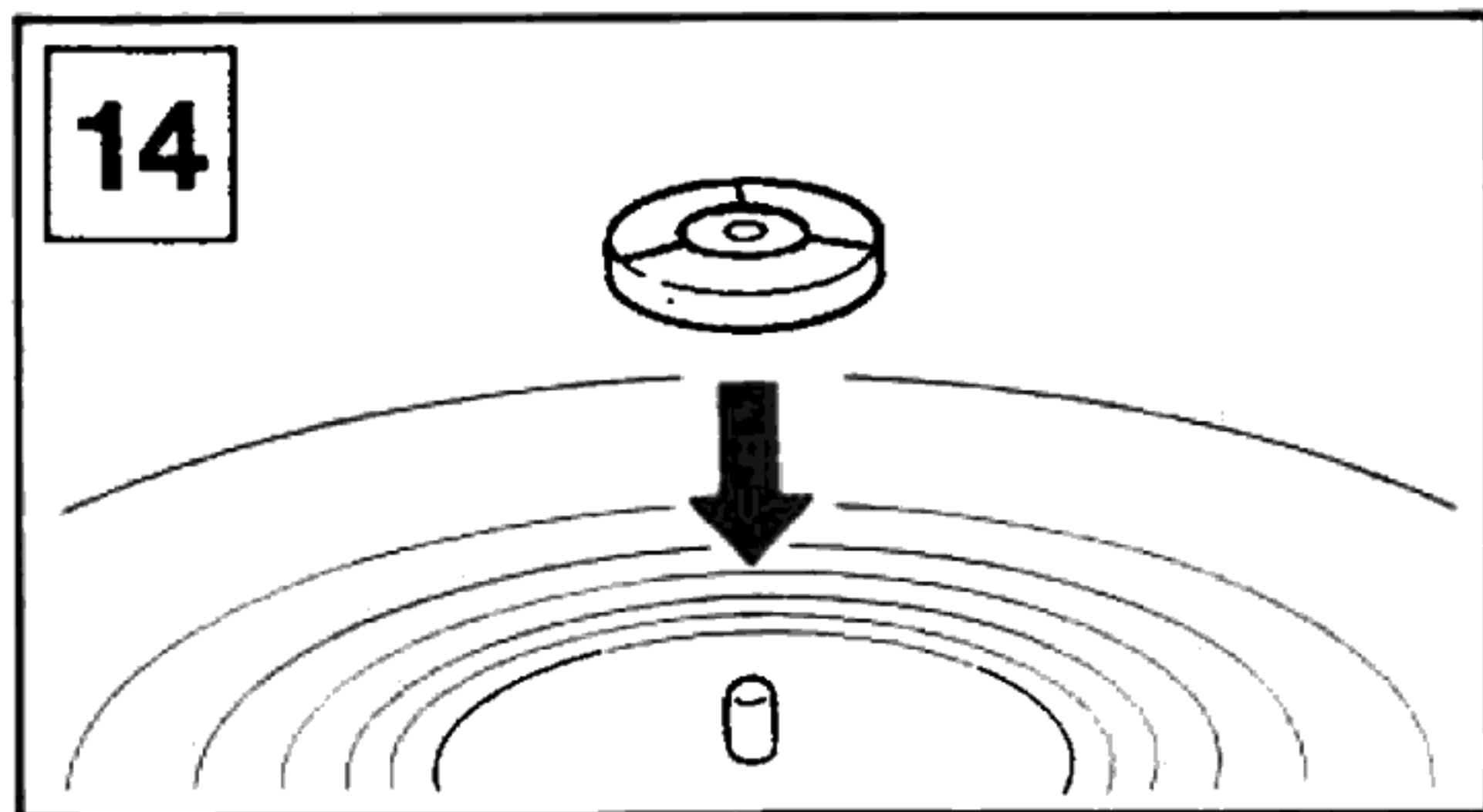
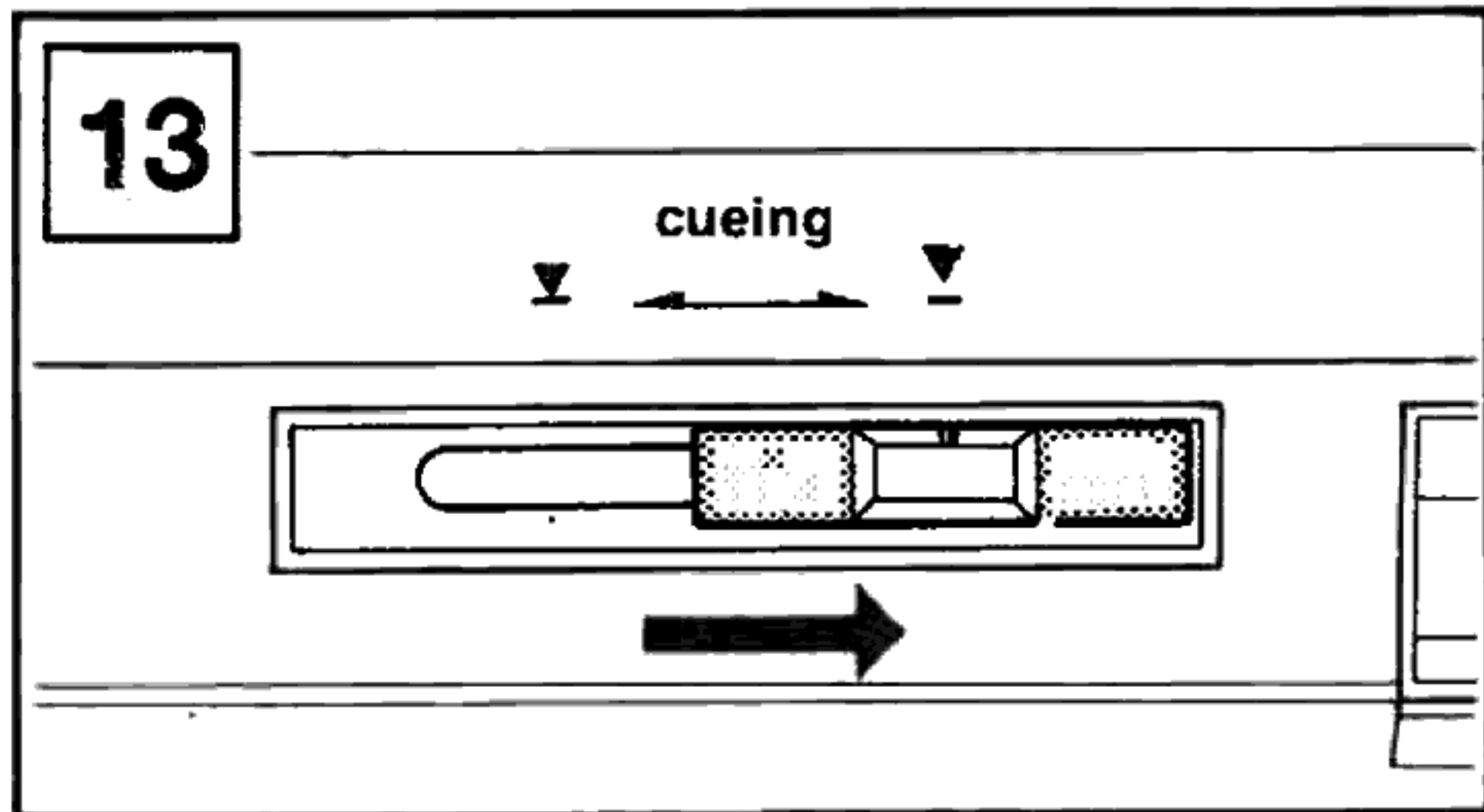
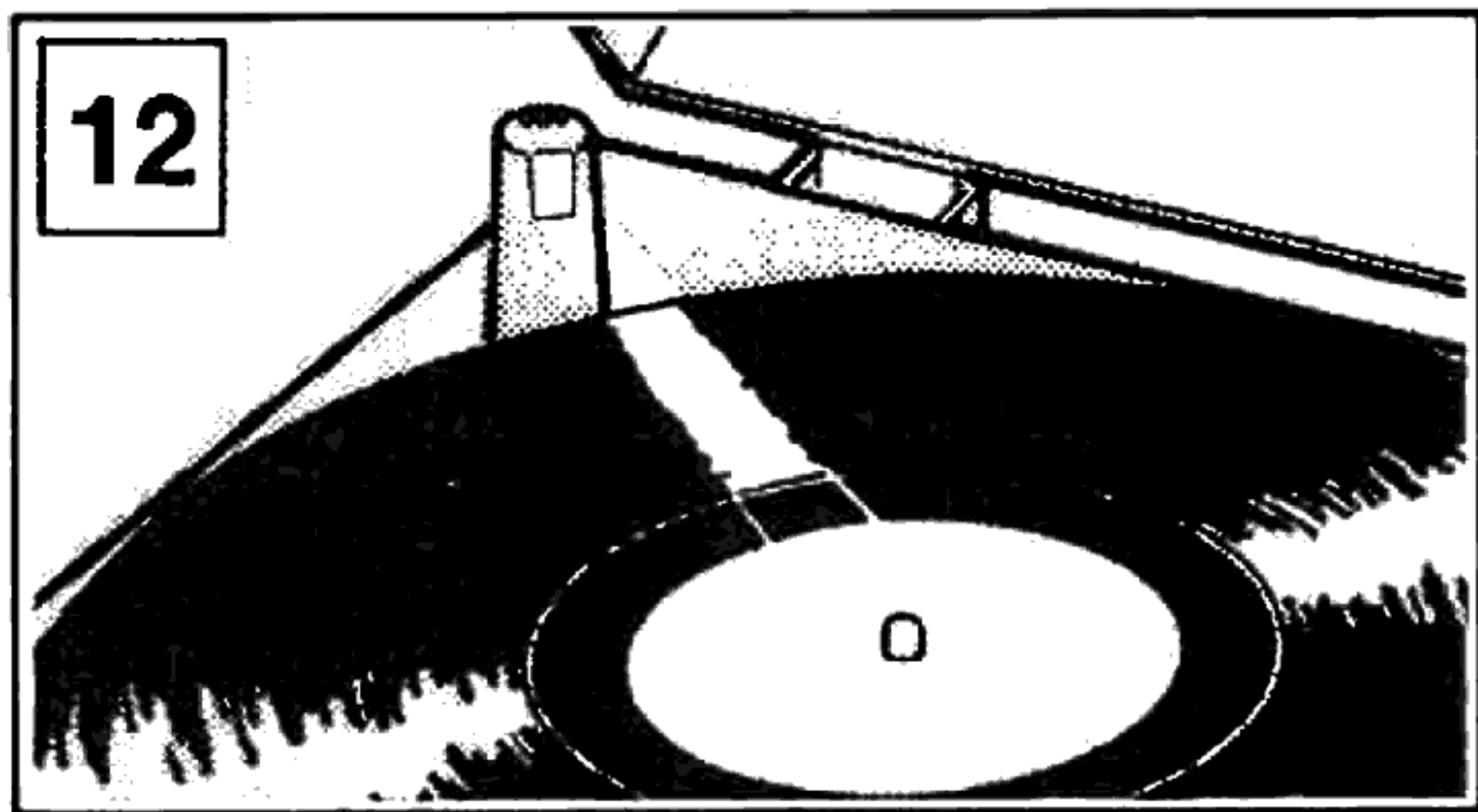
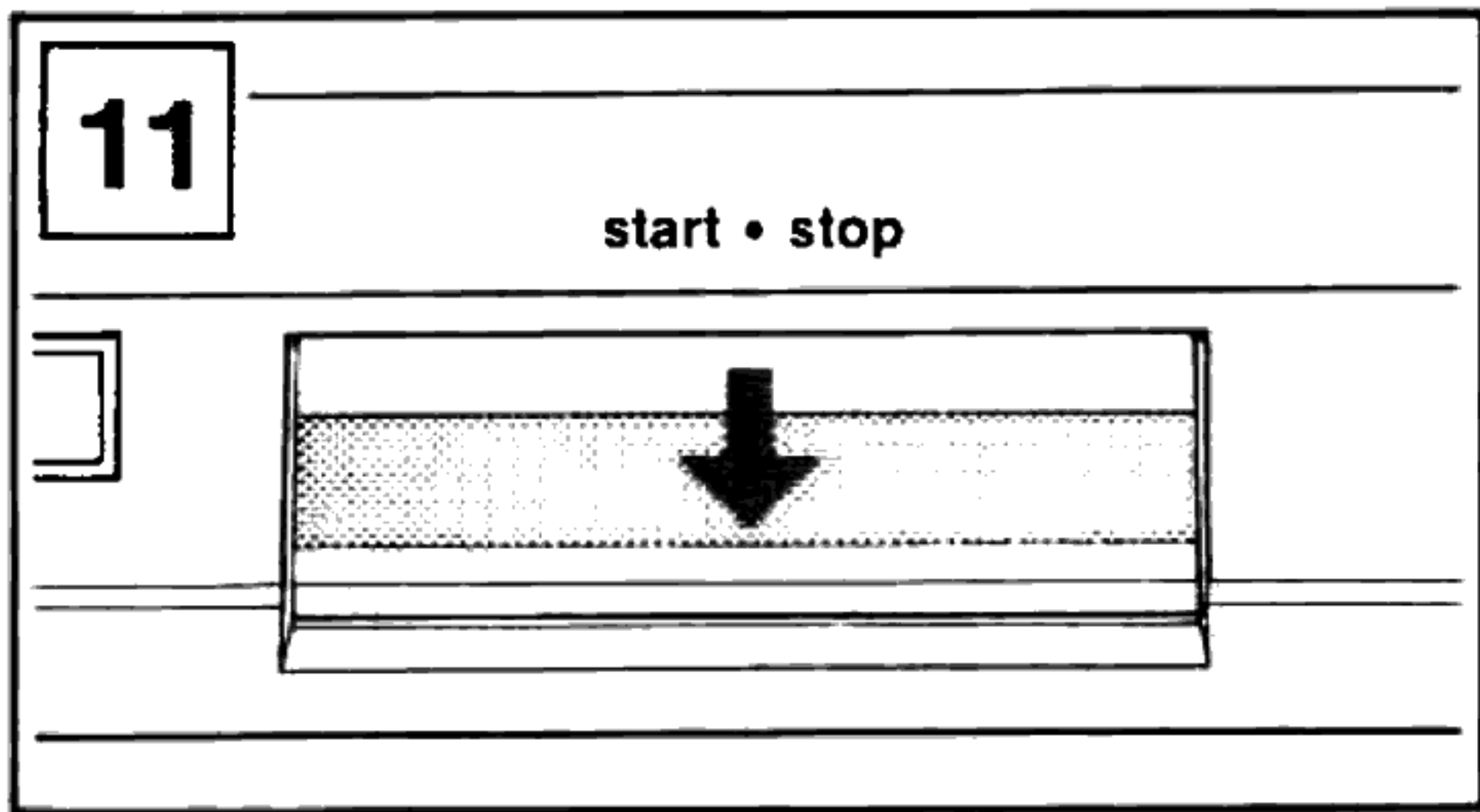
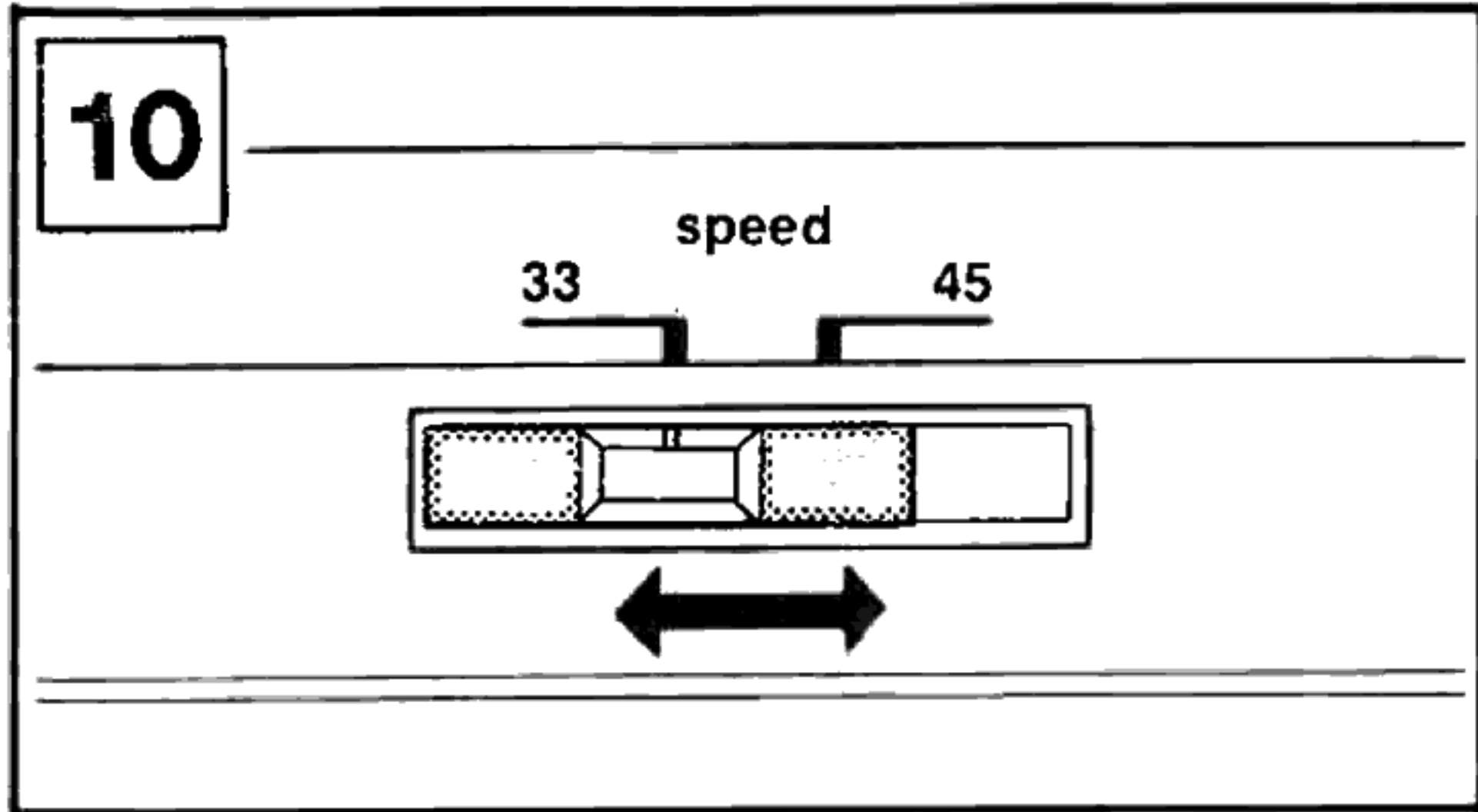
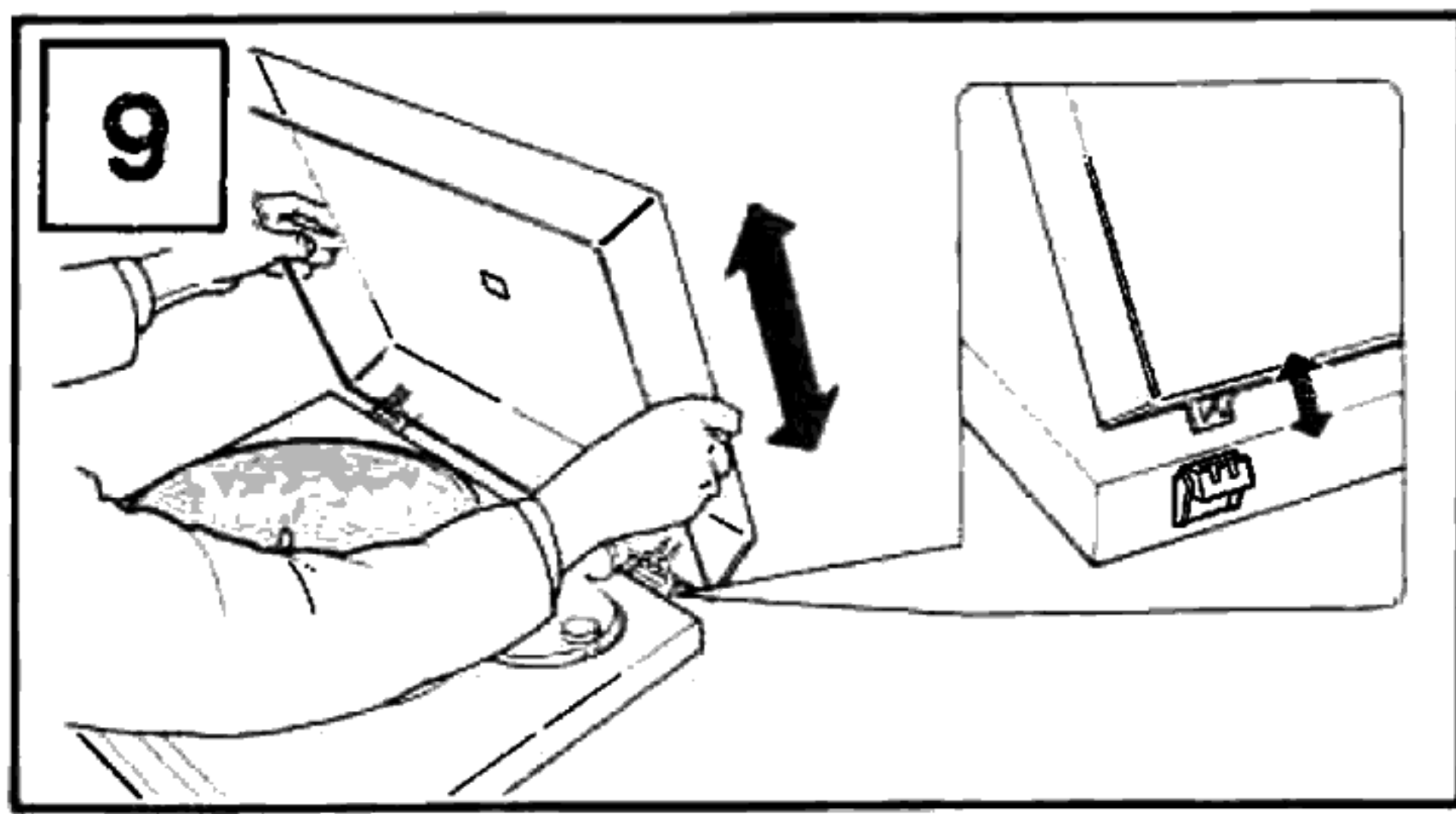
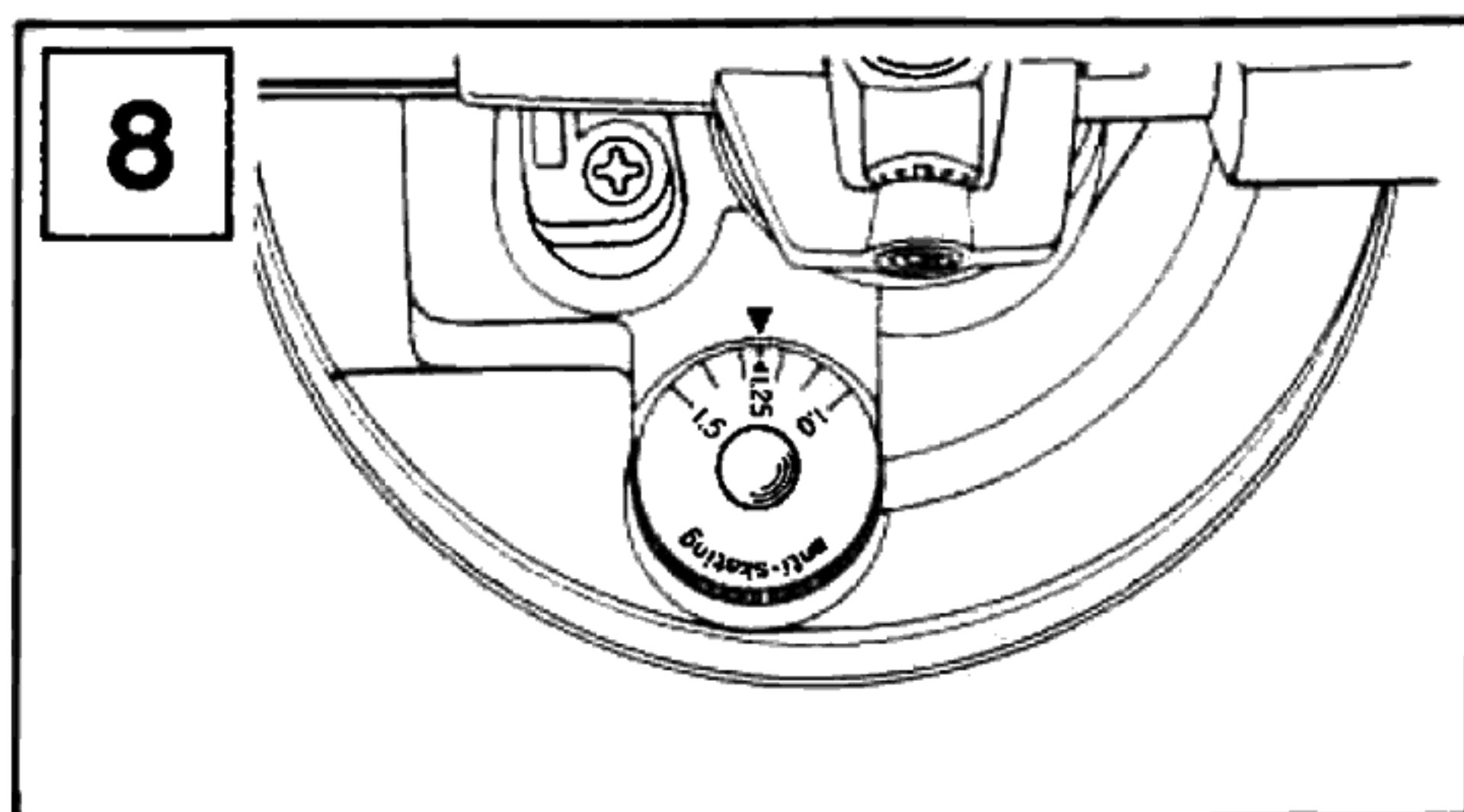
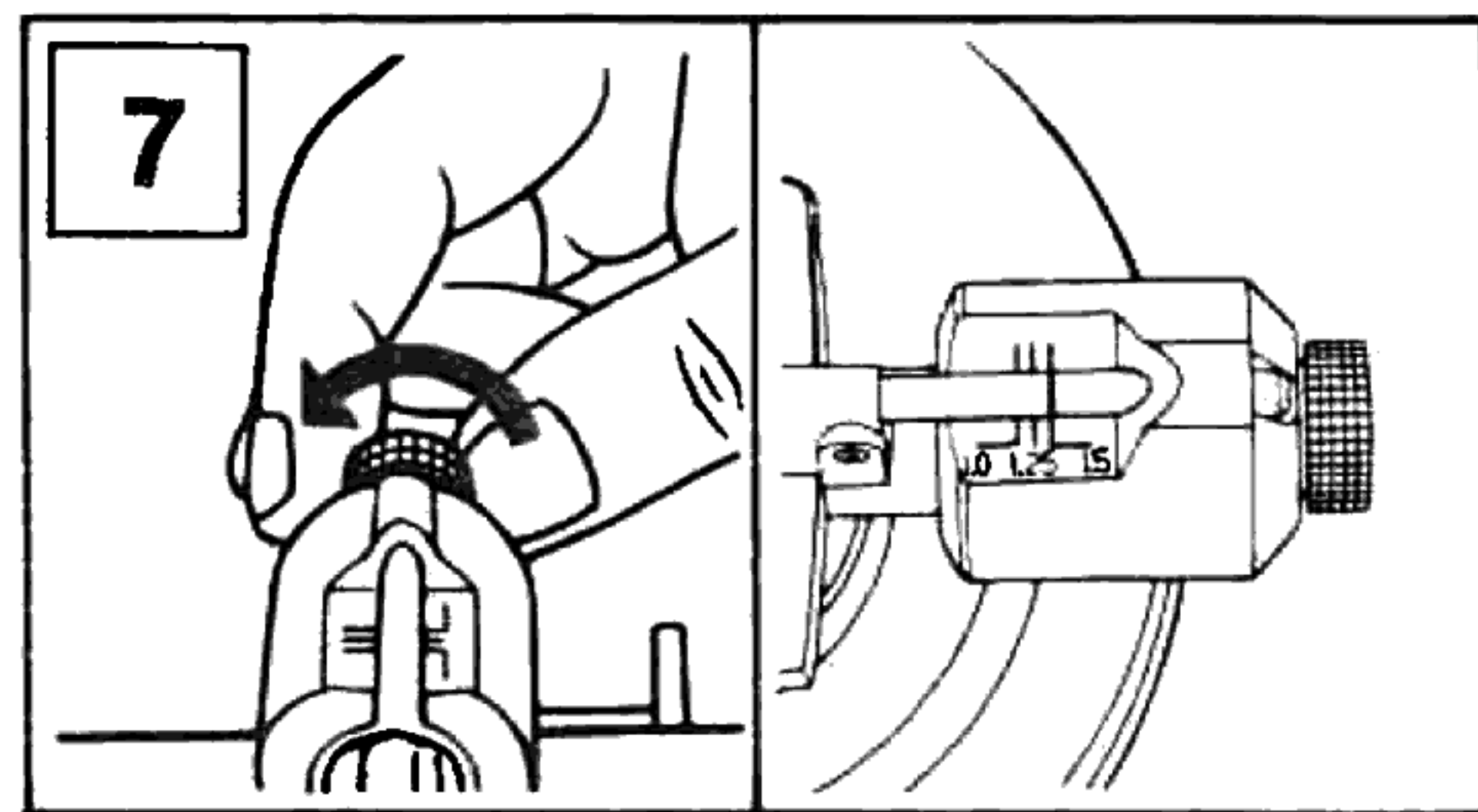
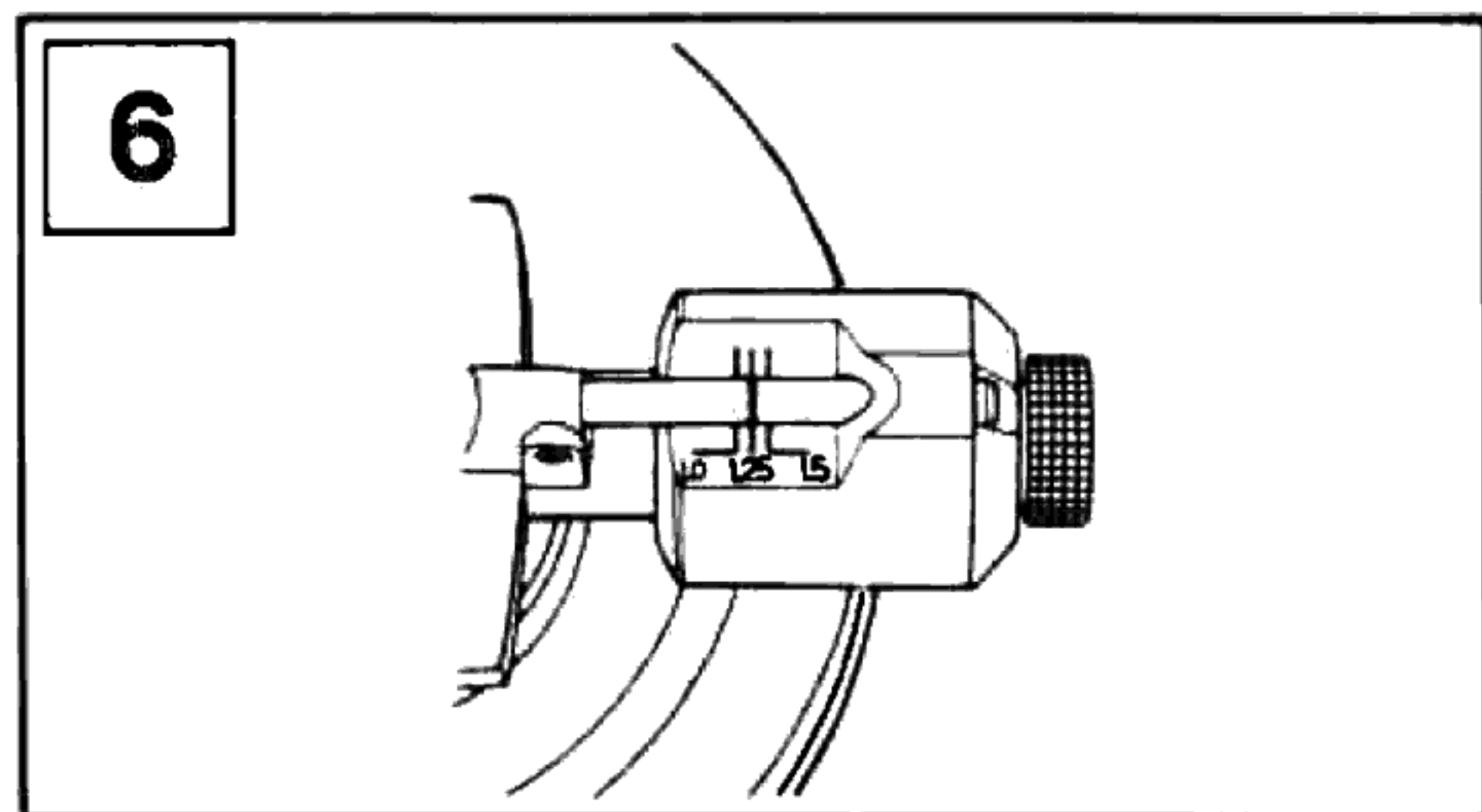
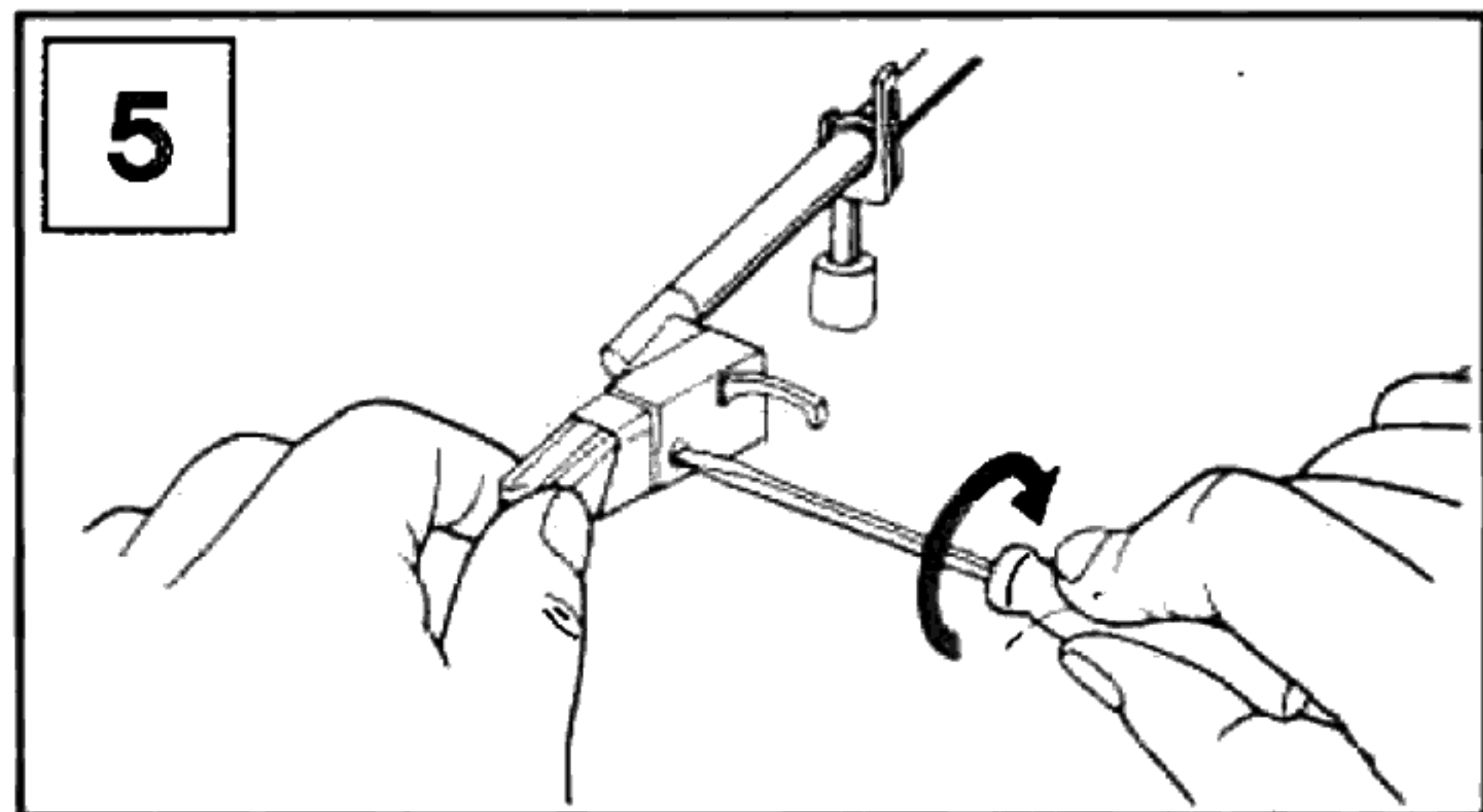
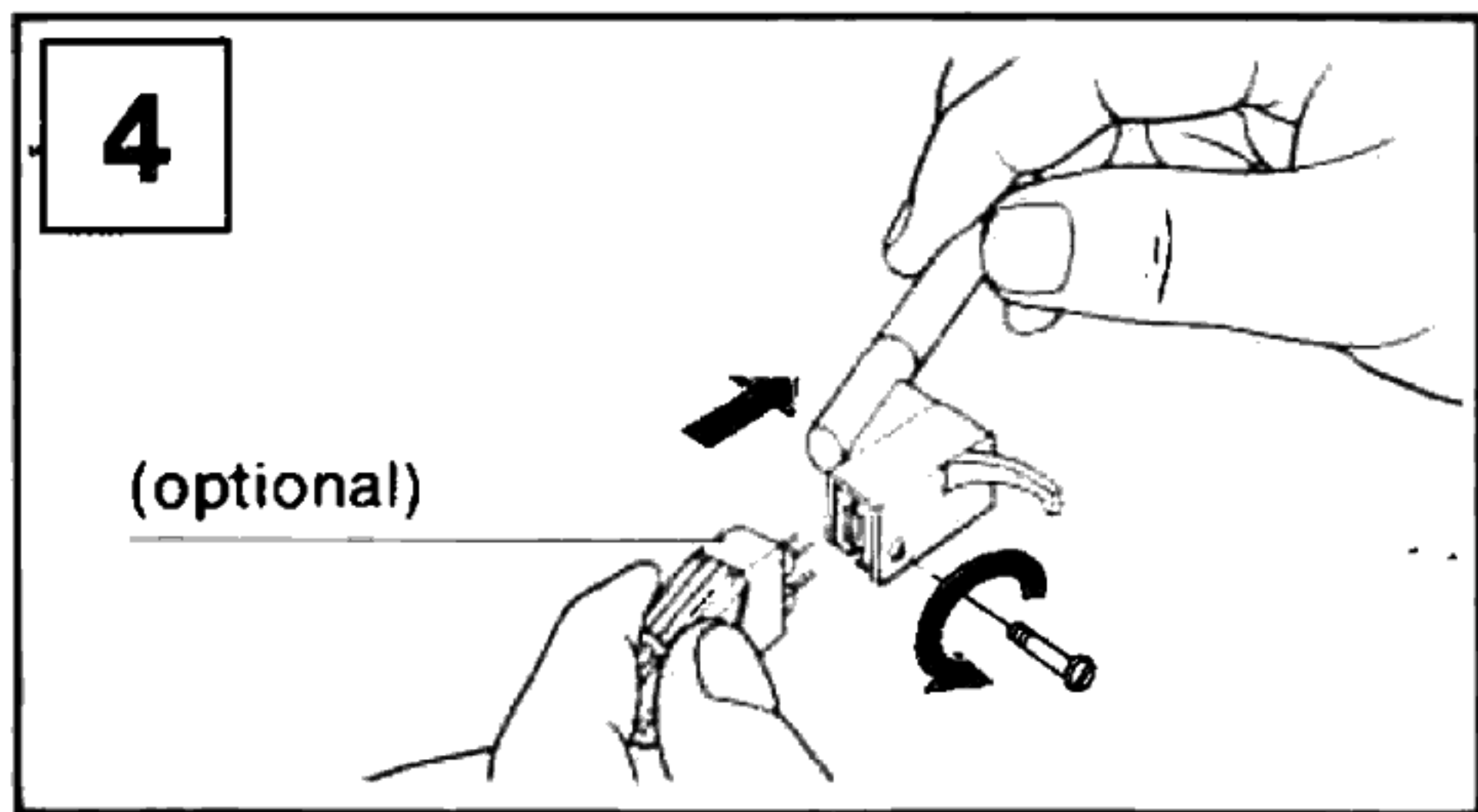
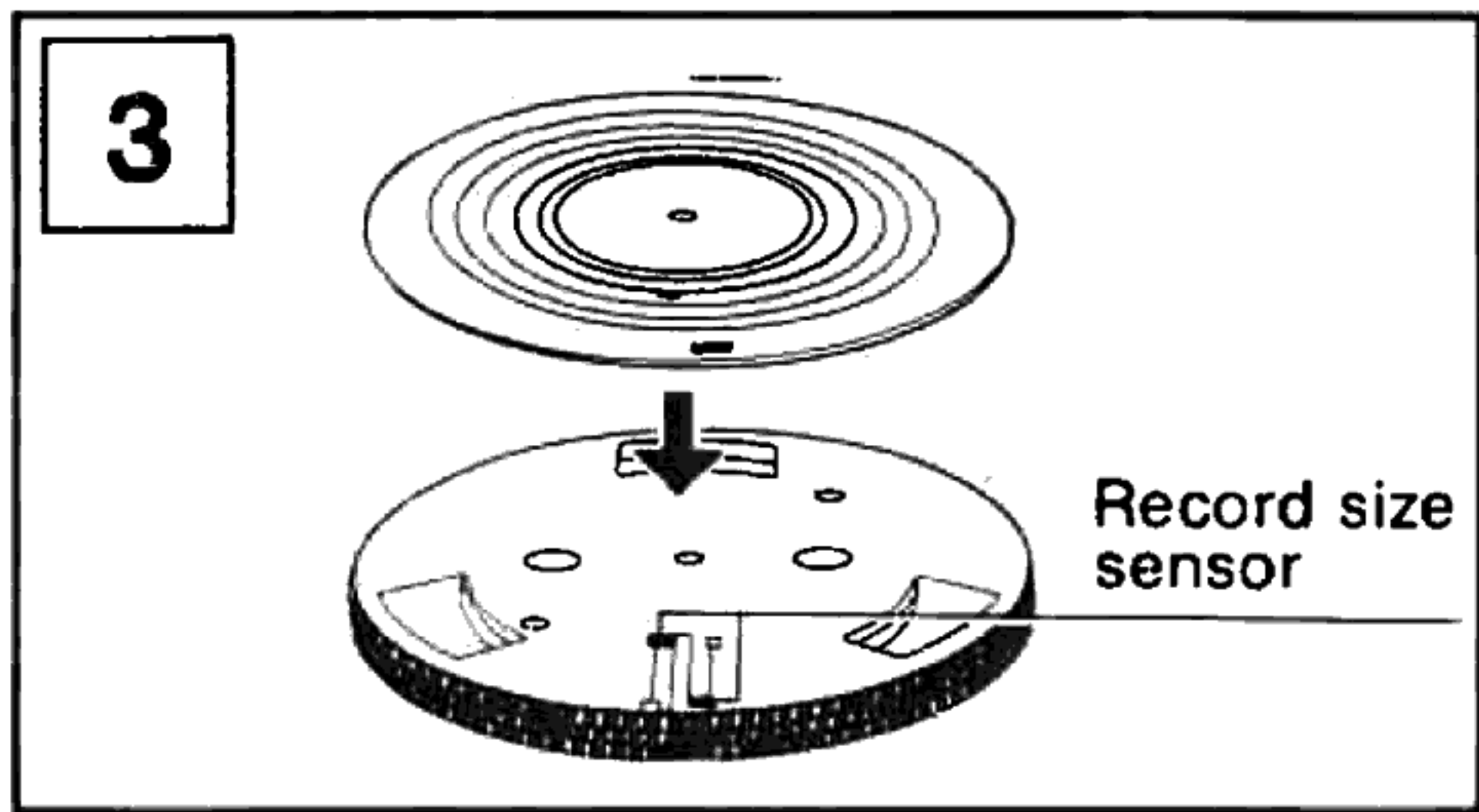
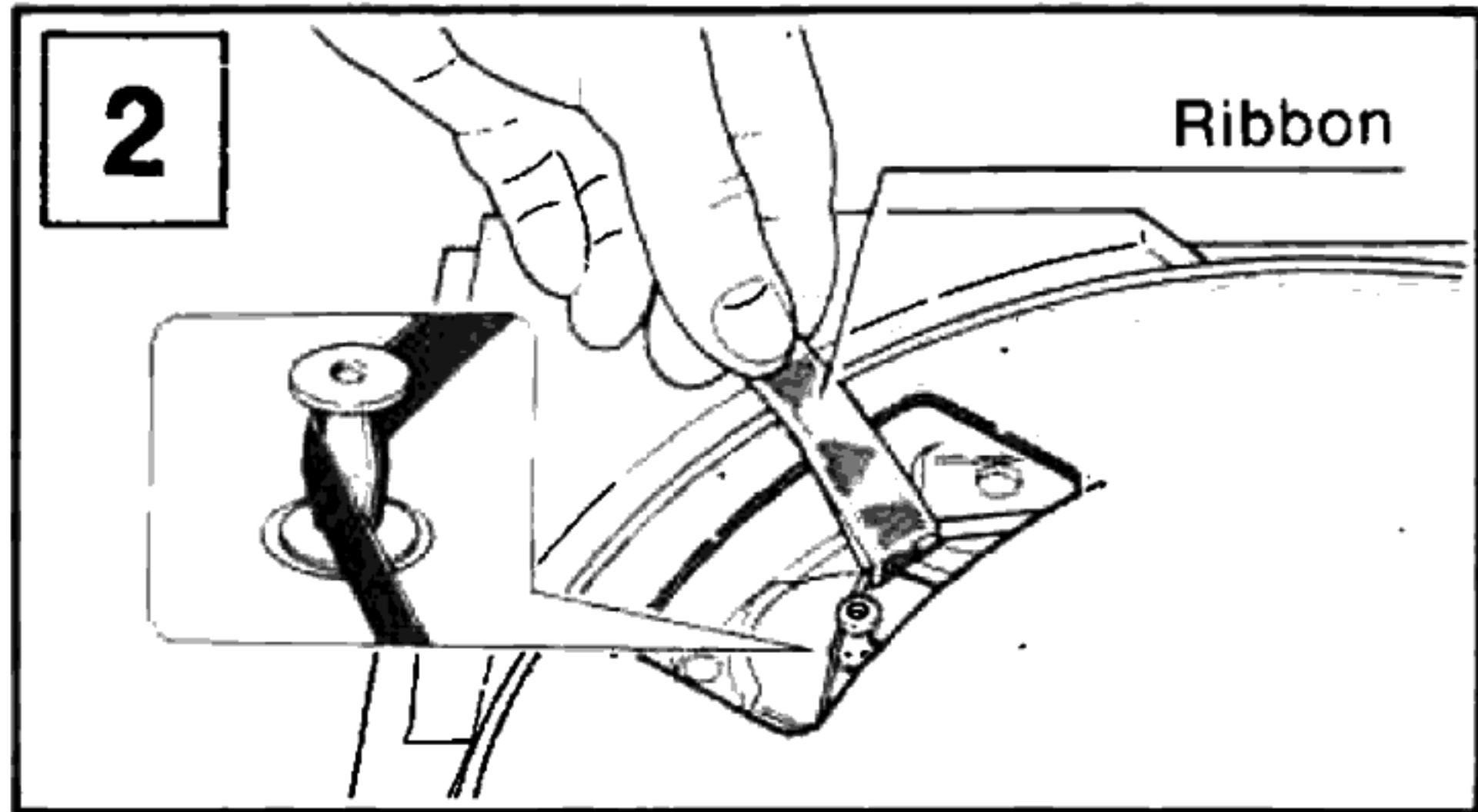
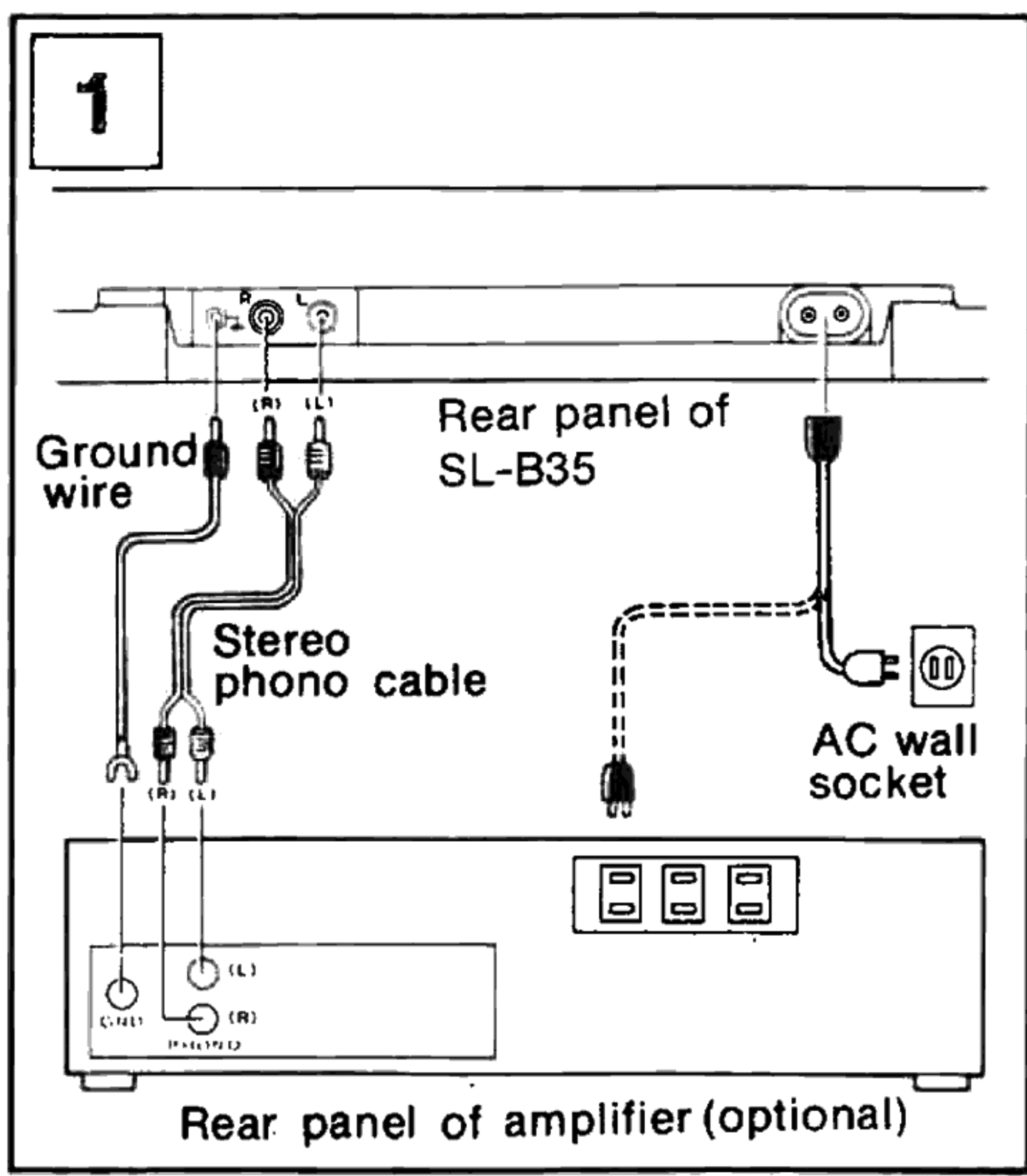
system of the highest quality with truly compact dimensions. And our receivers, which combine new class A amplification with quartz synthesizer tuning, have created tremendous excitement among reviewers and customers alike.

Amps, tuners, headphones, microphones, cartridges, open-reel decks, sound processors—we are proud of all our high quality equipment and we are constantly seeking to improve our products, in terms of performance and handling ease. In addition, our confidence in the reliability of our merchandise (demonstrated by our warranties) and the reasons for our enormous and rapid growth become obvious.

Parts identification



WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



Before use

Caution:

- Do not plug in the AC power plug before completing assembly.
- Attach the dust cover last to make assembly and adjustments easier.

■ Checklist of parts

Turntable unit	1
Turntable platter	1
Turntable mat	1
Dust cover	1
45-rpm adaptor	1
Stereo phono cable	1
Ground wire (GND)	1
AC power cord	1

Connections

Use the stereo phono cable to connect the turntable to your amp or receiver. Be sure that the white plugs are connected to the left channel jacks and the red plugs are connected to the right channel jacks. Plug the ground wire into the turntable's ground jack and connect the wire's spade plug to the amp or receiver's ground(GND) screw. Regarding the AC cord, plug the female end into the turntable AC jack and plug the other end into an AC wall socket. (Fig. 1)

Note that hum may occur if you neglect to connect the ground wire.

■ Plug in the AC power plug.

Plug the AC power plug into an AC wall socket.

Assembly

■ Installing the turntable platter

1. Place the platter on the center spindle.
2. Holding the belt by the ribbon, fit the belt over the capstan. Then remove the ribbon. (Fig. 2)
3. Place the turntable mat on the platter.
Be sure the slot in the mat is over the protrusion (record size sensor) on the platter. (Fig. 3)

Note:

After placing the mat on the platter, turn the platter clockwise about ten full rotations by hand. This is necessary to assure correct operation of the automatic mechanism.

■ Cartridge installation

Plug-in connector cartridges are now available from Ortofon (Denmark), Shure (U.S.A.), Audio Technica (Japan) as well as from Technics. All of these cartridges are designed for perfect matching with this turntable in all areas including weight, tracking force, stylus tip position, and center of gravity. Therefore, you have the option of employing a wide range of cartridges from the world's top manufacturers without the trouble of lead wire connections or tracking force adjustment.

When installing a cartridge, follow the instructions that came with the cartridge.

1. Remove the cartridge attachment screw with a screwdriver. (Fig. 4)
2. Align the pins on a cartridge with the tonearm connector and plug it into the tonearm as far as it will go. (Fig. 4)
3. Tighten the cartridge attachment screw. (Fig. 5)

About stylus pressure (tracking force)

The tracking force is already set to 1.25 g so no adjustment is necessary. (Fig. 6)

When records with a high modulation level are played or when the turntable is used where the temperature is low or in a location subject to vibrations, sound may be distorted and the stylus may skip. If this occurs, rotate the stylus-pressure adjustment knob at the rear to the "1.5" setting. (Fig. 7)

If the knob is set to "1.0" the tracking force will be lighter.

■ Adjusting the anti-skating control (Fig. 8)

This is set to the same level as the tracking force (1.25); there is no need to adjust it yourself. However, if the index mark (▼) is off center, reset it to the proper position.

If the tracking force is set to 1.5 g, the anti-skating control also must be set to "1.5".

■ Attaching the dust cover (Fig. 9)

Hold both sides of the cover and lower it into the hinge slots. To remove the cover, open it and pull upward.

Note:

Opening or closing the cover during play may cause vibrations and groove skipping. If you must open the cover during play, do so very gently.

Placement

- Place the unit in a stable and horizontal position where there is little or no vibration.
- Place the unit away from the speakers so that it will be subject to as little direct sound radiation as possible.
- Do not place the unit where it will be exposed to direct sunlight, dust, moisture or heat.
- Place it in a well ventilated location.

Operation

■ Automatic play

1. Put a record on the turntable mat.
2. If the cartridge has a detachable stylus protector, remove it.
3. Release the arm clamp.
4. Set the speed selector to the correct speed. (Fig. 10)
5. Push the start/stop switch. (Fig. 11)

The tonearm automatically selects the record size [for 30 cm (12") and 17 cm (7") records only] and begins record play.

The strobe-illuminator/pilot lamp and the disc lamp will light up (Fig. 12)

At the end of the record, the tonearm will automatically return to the arm rest and the turntable will stop.

Note:

The record size sensor does not operate for 25 cm (10") records or other records of non-standard sizes.

Operate the turntable manually in such cases.

When there is no record on the turntable mat, the platter will rotate once or twice but tonearm will not move toward the center spindle.

■ Stopping the turntable

Push the start/stop switch. (Fig. 11.)

The tonearm will return to the arm rest and the turntable will stop.

■ Temporarily interrupting play

Set the cueing control to the "▼" position. (Fig. 13)

This will make the tonearm rise off the record.

■ Playing 45-rpm records having large center holes

Put the 45-rpm adaptor over the center spindle. (Fig. 14)

Set the speed selector to the "45" position. (Fig. 15)

■ Manual play

1. Perform steps 1-4 of automatic playback.
2. Set the cueing control to the "▼" position. (Fig. 13.)
3. Move the tonearm over the desired groove.
The strobe-illuminator/pilot lamp and the disc lamp will light up.
The platter will start turning.
4. Set the cueing control to the "▼" position. (Fig. 16)
The tonearm will descend and play will begin.
At the end of the record, the tonearm will automatically return to the arm rest and the turntable will stop.

■ If the unit is not to be used for some time

Secure the tonearm with the arm clamp.

If the cartridge has a detachable stylus protector, put it back on after use.

Close the dust cover.

Adjustments

■ Arm-lift height adjustment

The arm-lift height (distance between the stylus tip and the record surface when the cueing control is at the "▼" position) has been adjusted at the factory to approximately 5 to 8 mm. (3/16" ~ 5/16") (Fig. 17)

If the clearance is too narrow or too wide, turn the adjustment screw clockwise or counterclockwise. (Fig. 18)

Clockwise rotation

—distance between the record and stylus tip is decreased.

Counterclockwise rotation

—distance between the record and stylus tip is increased.

■ Adjustment of automatic start position (Fig. 19)

Note:

The auto-start and auto-return adjustment screws are located together.

When the tonearm is in or near the arm rest the auto-start adjustment screw is visible (Fig. 19), when the tonearm is near the center of a record, the auto-return adjustment screw is visible. (Fig. 20)

If the stylus does not land in the lead-in groove, adjust as follows.

1. Clamp the tonearm to the arm rest.
2. Remove the rubber cap. (Fig. 19)
3. Turn the screw with a screwdriver, clockwise or counterclockwise as necessary.

If the stylus tip sets down too far in the recorded groove, —turn counterclockwise.

If the stylus tip sets down outside of the record, —turn clockwise.

Adjust so the stylus tip lands 1~2 mm in from the edge of the record.

■ Adjustment of automatic return position (Fig. 20)

(Remove the rubber cap.)

1. Put the stylus protector on the cartridge.
2. Move the tonearm toward the center of the record.

The auto-return adjustment screw will appear.

If the tonearm tends to return to the arm rest before the play has finished,

—turn counterclockwise.

If the tonearm fails to return after the final groove,

—turn clockwise.

■ Speed adjustment (pitch control) (Fig. 21)

There are strobe-lines cut on this turntable platter to indicate correct rotational speed.

If the strobe-line appears to be moving as the turntable rotates, adjust while playing a record.

1. Set the speed selector to the speed to be adjusted.
2. Watch the dot pattern on the side of the platter. Turn the pitch control one way or the other until the dots appear to stand still. This is the correct speed.
3. Turning the pitch control in the "+" direction increases the speed.
4. Turning the pitch control in the "-" direction decreases the speed.

Note:

This unit's strobe illuminator operates at the AC line frequency which generally has a 0.2% fluctuation.

This fluctuation, when present, may make the strobe pattern appear to change. However, actual turntable speed does not change, because the DC motor is not affected by AC power line frequency

Notes and maintenance

- **Do not touch or hold the tonearm during automatic operation.**
- **Carefully remove dust and dirt from records and stylus.**
Dust and dirt degrade sound quality and cause excessive wear of the stylus and grooves.
- **Wipe the dust cover and turntable base with a soft, dry cloth.**
Never use volatile cleaners such as alcohol, benzene or thinner.
Do not use chemically treated dust cloths. Do not expose the cover to insecticide spray.
To remove stubborn spots, first pull out the AC plug and detach the cover.
Then wipe the cover with a soft cloth slightly moistened with a mild soap and water solution.
Do not wipe the cover during play, or the tonearm may be attracted toward the cover due to the generation of static electricity.
- **Transporting and shipping the turntable**
Pack the unit in the reverse order from unpacking. Use the original packing material if possible. Otherwise, take these steps:
 - Remove the platter and mat and wrap them.
 - Tape or tie the tonearm to the arm rest so it cannot shake free.
 - Wrap the turntable base with a blanket or soft paper to avoid scratches or damage.

■ **Playing special records.**

Follow "Manual play" for playing the following types of records. (Special records may interfere with correct automatic operation.)

This is not a malfunction of the turntable.

- Non-standard size records [standard size (EIA, IEC, DIN, JIS) are 17 (7"), 25 (10") and 30 cm (12")].
(However, 25 cm (10") records can not be selected automatically by the record size sensor.)
- Sono-sheets, or light and thin records.
- Badly warped records.

■ **How to remove and install the turntable platter. (Fig. 22)**

The belt is connected to the capstan and the inner drive rim of the platter.

Before removing the platter, release the belt from the capstan.

When reinstalling the platter, lower it over the turntable shaft and then put the belt onto the capstan.

Note:

Be careful not to let oil or grease contact the belt.
If grease inadvertently contacts the belt, disconnect the AC power plug first and wipe the belt clean with alcohol.

Suggestions for safety

Before using this unit, be sure to read applicable items of the operating instructions and these safety suggestions carefully; and afterwards keep them handy for future reference. Take special care to follow the warnings indicated on the unit itself as well as in the operating instructions.

1. **Avoid places where there is water or humidity.**
Do not use this unit near a bathtub, washbasin, swimming pool, or the like. Damp basements should also be avoided.
2. **Do not allow water or any foreign object to get inside this unit.**
Do not place small metal objects or anything containing liquid on or near the unit.
3. **Avoid placement of the unit where it will be exposed to the direct rays of the sun, or where ventilation is inadequate.**
Do not place this unit in a bookcase or between cabinets, or where curtains or furniture may obstruct the ventilation holes.
4. **Place this unit away from heat-emitting appliances.**
Never place this unit near a radiator, heat register, stove, or any other heat-emitting equipment (including amplifiers).
5. **Placement**
Place the unit on a stable, vibration-free, level shelf or stand.
6. **Use of a cart or stand.**
When deciding on a cart or stand, be sure to use only with the cart or stand recommended by the manufacturer.
7. **Wall or ceiling installation.**
If the unit is to be mounted on a wall or ceiling, be sure to do so only as recommended by the manufacturer.
8. **Check the voltage rating of this unit before connecting the unit to a power supply.**
Be sure to connect the unit only to the type of power supply indicated in the operating instructions, or as indicated on the unit itself.
9. **Care of the power cord and plug.**
Take care that the cord is not bent sharply (especially near its connection to the unit or near the plug), that nothing is placed on it, and that it is not pinched or crushed. Never take hold of the plug or cord if your hand is wet, and always be sure to grasp the plug body when connecting or disconnecting it.
10. **If the unit will not be used for a long period of time:**
Be sure to disconnect the power cord.
11. **Maintenance**
Refer to the operating instructions for details.
12. **Never attempt repairs yourself:**
 - (a) If the power cord or plug is damaged.
 - (b) If a foreign object or liquid falls into the unit.
 - (c) If the unit is exposed to rain.
 - (d) If the unit does not function normally, or if operation shows an unusual change.
 - (e) If the unit has been dropped and the cabinet or chassis are damaged. . . etc.Unplug the power cord and consult with a qualified technician (or the dealer from whom the unit was purchased or the nearest servicenter).
13. **Repairs**
Except for adjustments explained in the operating instructions, do not attempt any repairs yourself. Be sure to request service from a qualified technician (or your dealer or nearest servicenter).

Specifications

■ General

Power supply:	120 V AC, 50 or 60 Hz
Power consumption:	8 W
Dimensions: (W×H×D)	43 × 11 × 37.5 cm (16-15/16" × 4-11/32" × 14-3/4")
	Maximum height when top (dust cover) is open. 43 × 37 × 42.5 cm (16-15/16" × 14-9/16" × 16-23/32")
Weight:	4.2 kg (9.3 lb.)

■ Turntable section

Type:	Fully automatic turntable Auto start Auto return Auto stop Manual play
Drive method:	Belt drive
Motor:	DC motor
Drive control method:	F-G servo control
Turntable platter:	Aluminum die-cast Diameter 30.4 cm (12 inches)
Turntable speeds:	33-1/3 rpm and 45 rpm
Pitch control:	6% adjustment range
Wow and flutter:	0.045% WRMS (JIS C5521) ±0.06% peak (IEC 98A Weighted)
Rumble:	-70 dB (IEC 98A Weighted)

■ Tonearm section

Type:	Statically-balanced straight tonearm Plug-in connector cartridge system
Effective length:	230 mm (9-1/16")
Overhang:	15 mm (19/32")
Tracking error angle:	Within 2°32' at the outer groove of 30 cm (12") record Within 0°32' at the inner groove of 30 cm (12") record
Effective mass:	7.5 g (without cartridge)
Stylus pressure adjustment range:	1.25 ±0.25 g
Applicable cartridge weight range:	6 g
Phono cable capacitance:	100 pF

Specifications subject to change without notice.
Weight and dimensions shown are approximate.

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