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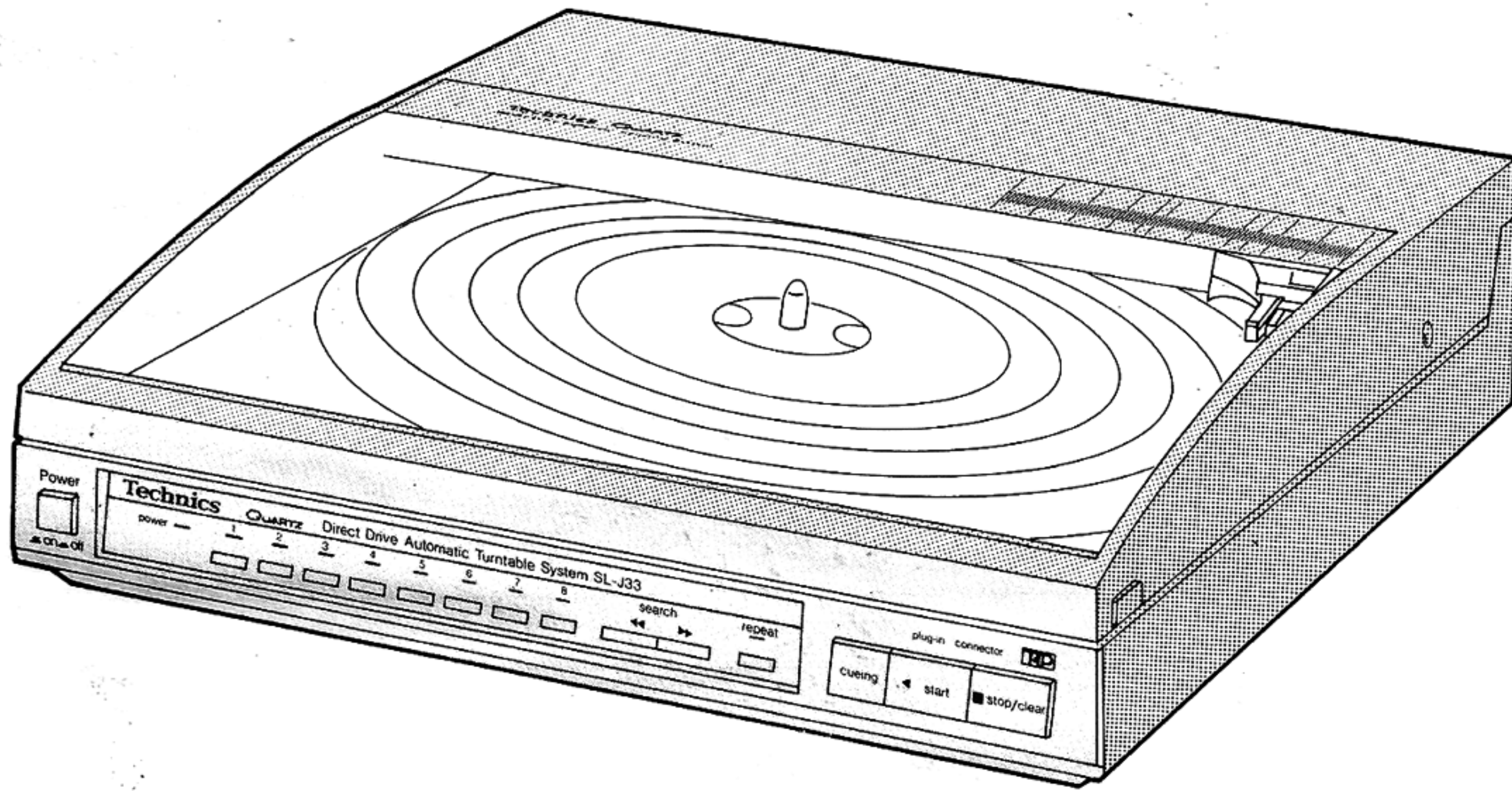
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Technics

QUARTZ Direct Drive
Automatic Turntable System

SL-J33

OPERATING INSTRUCTIONS



These instructions also apply to units of different color.

Before operating this unit, please read these instructions completely.

Dear Stereo Fan

Technics, The Science of Sound, welcomes the challenge of new audio technologies and brings you a multitude of world- renowned, high quality audio components.

Like our stereo high speed editing cassette decks with dbx*, Computer Drive New Class A receivers, quartz drive linear tracking turntables, and revolutionary honeycomb disc speakers. All are backed by our time-honored commitment to imagination, value, and quality.

Technics captures the power of new ideas and turns them into realities -- with digital Compact Disc

players that bring the search for perfect sound to fruition. And A/V receivers that can integrate both audio and video technologies to forever alter the home entertainment system.

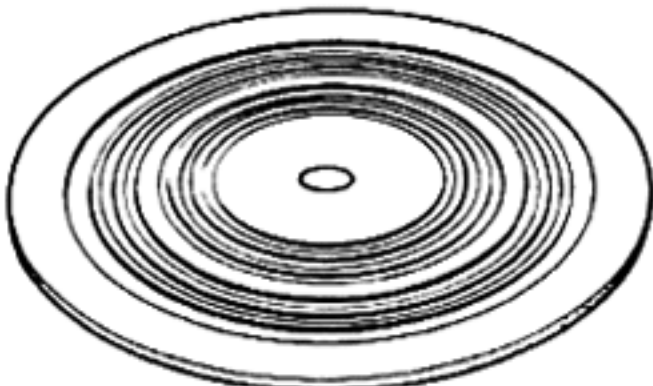
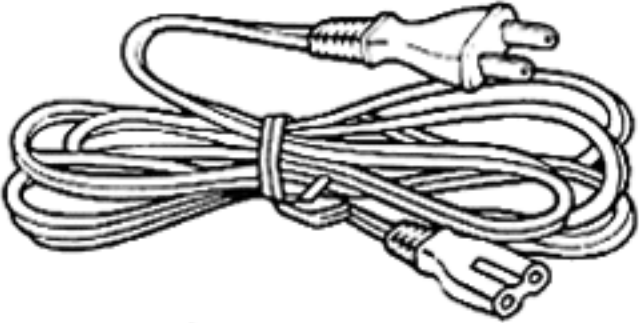
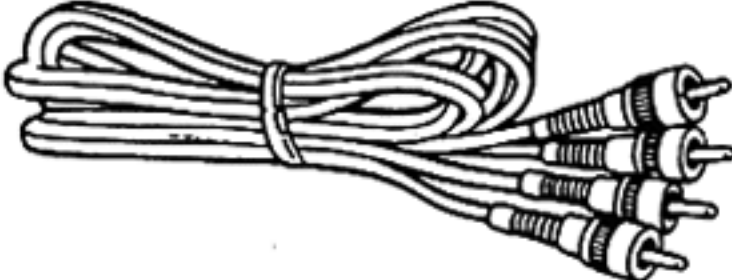
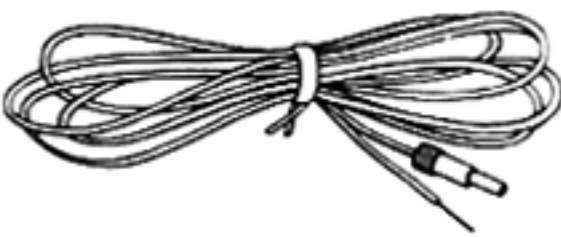
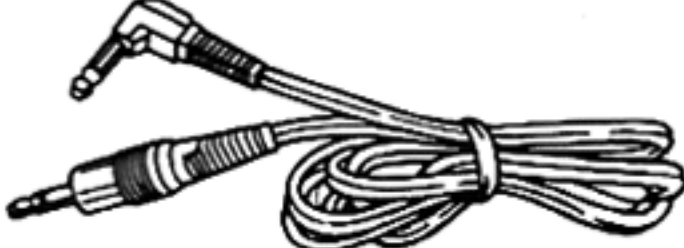
The Technics list of advanced audio components continues. From digital PCM processors, quartz tuners, and preamps to the world's first touch-sensitive graphic equalizer, Technics is a shining example of audio technology at its best -- ready to take you to new dimensions in sound.

*dbx is a registered trademark of dbx, Inc.



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Accessories

Platter mat (1)	AC power supply cord (1)	Stereo connection cable (1)	Ground wire (1)	Connection cable for remote control (1)
				

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

	<div><p>CAUTION</p><p>RISK OF ELECTRIC SHOCK DO NOT OPEN</p></div>	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</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.

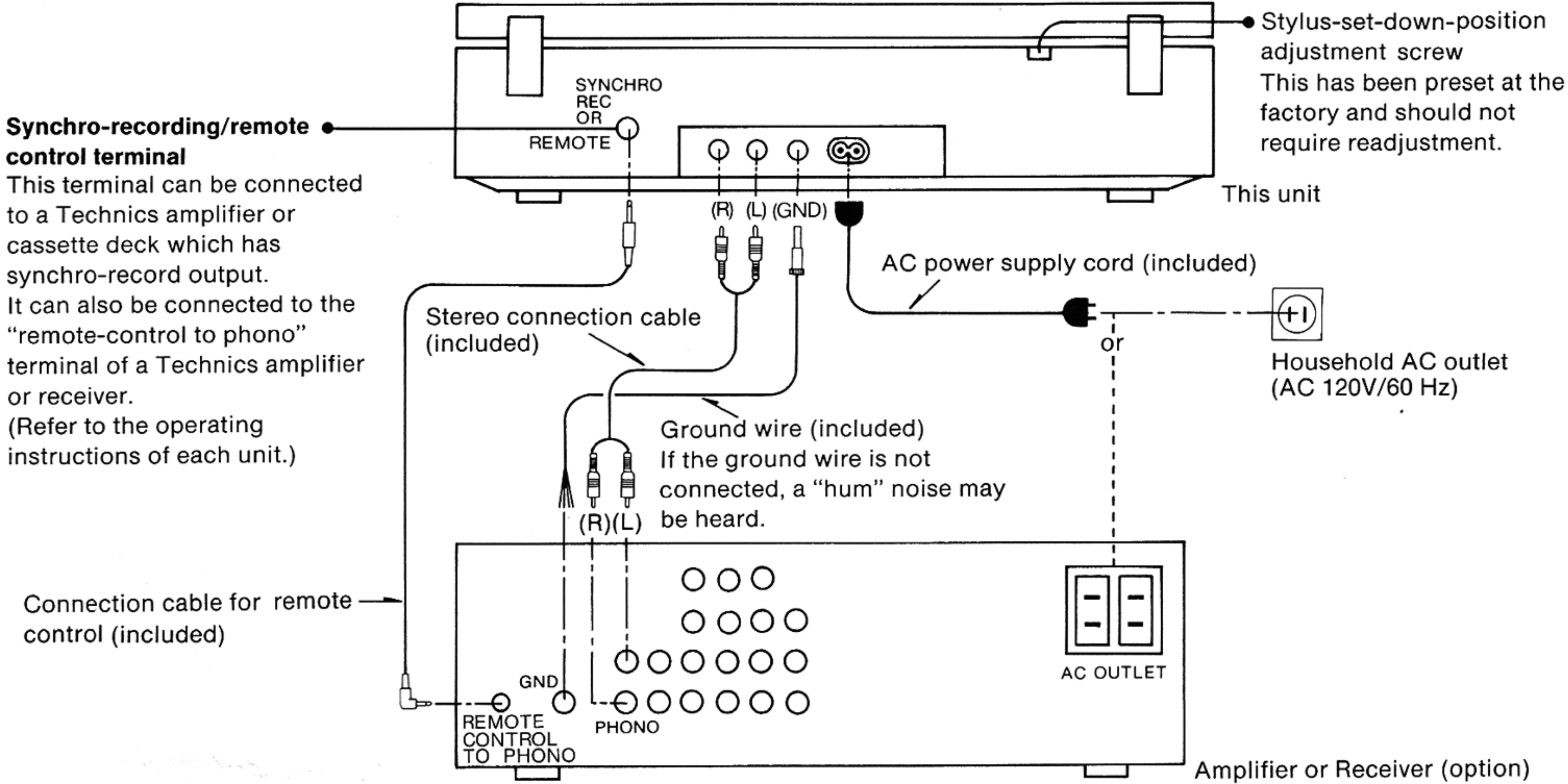
 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

MODEL NUMBER SL-J33

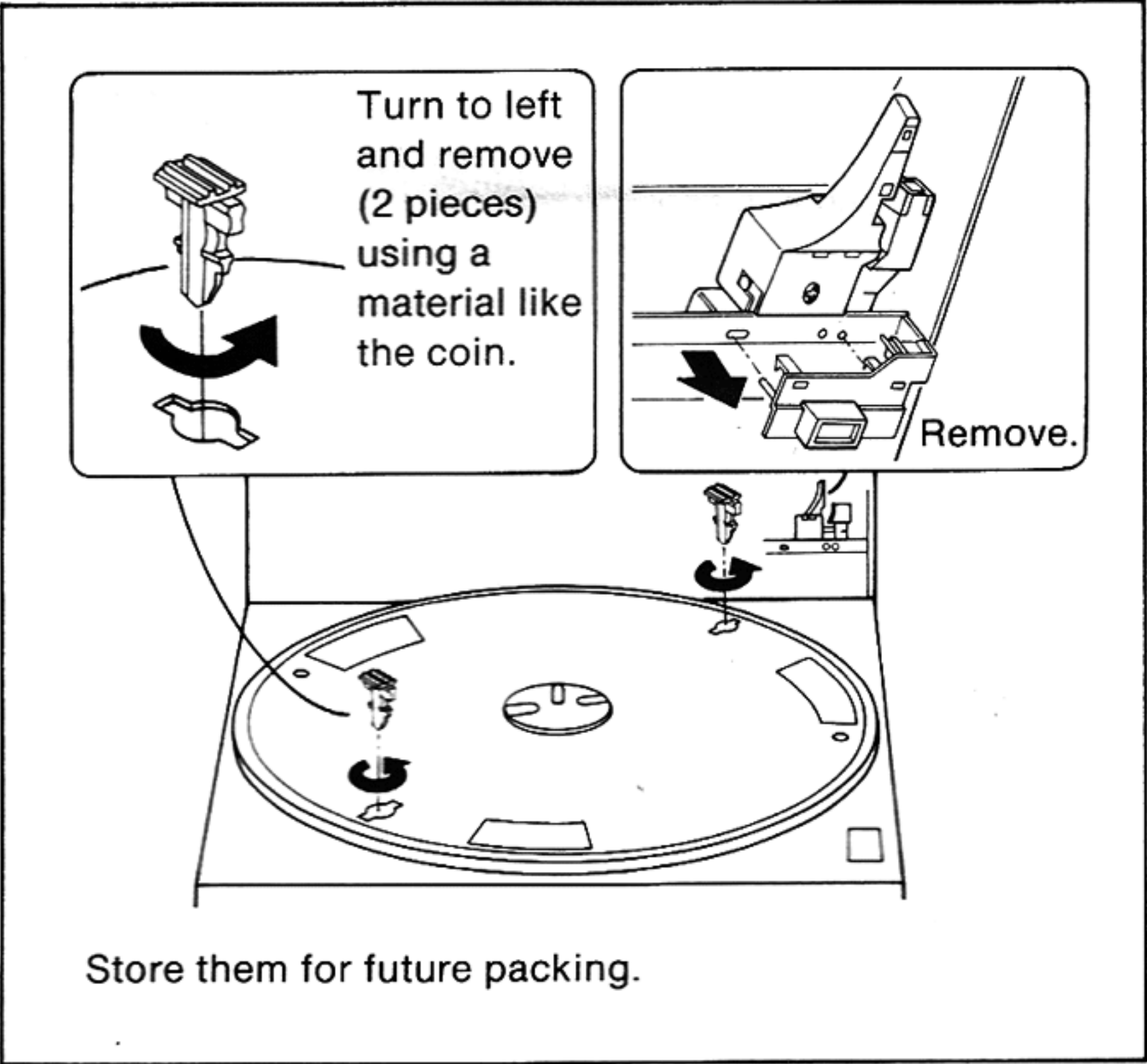
SERIAL NUMBER _____

Connections



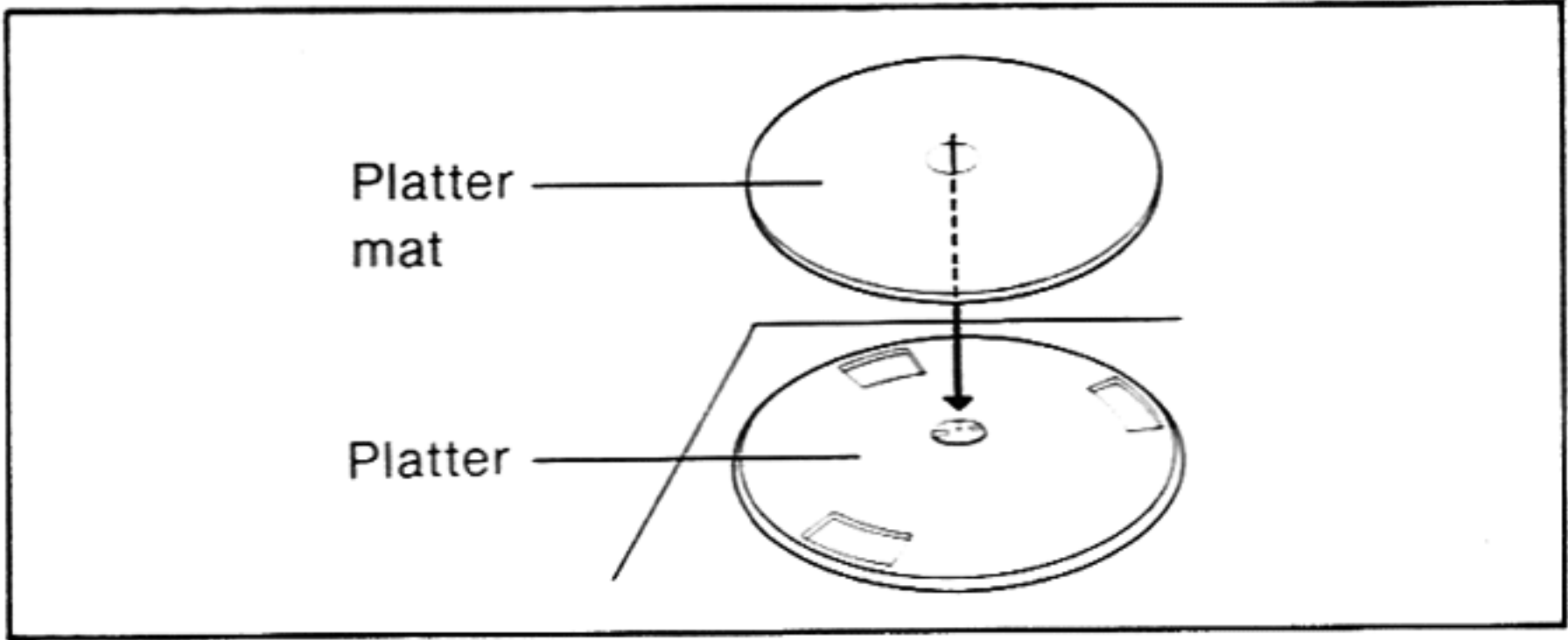
Turntable Assembly

1. Remove the packing spacers.



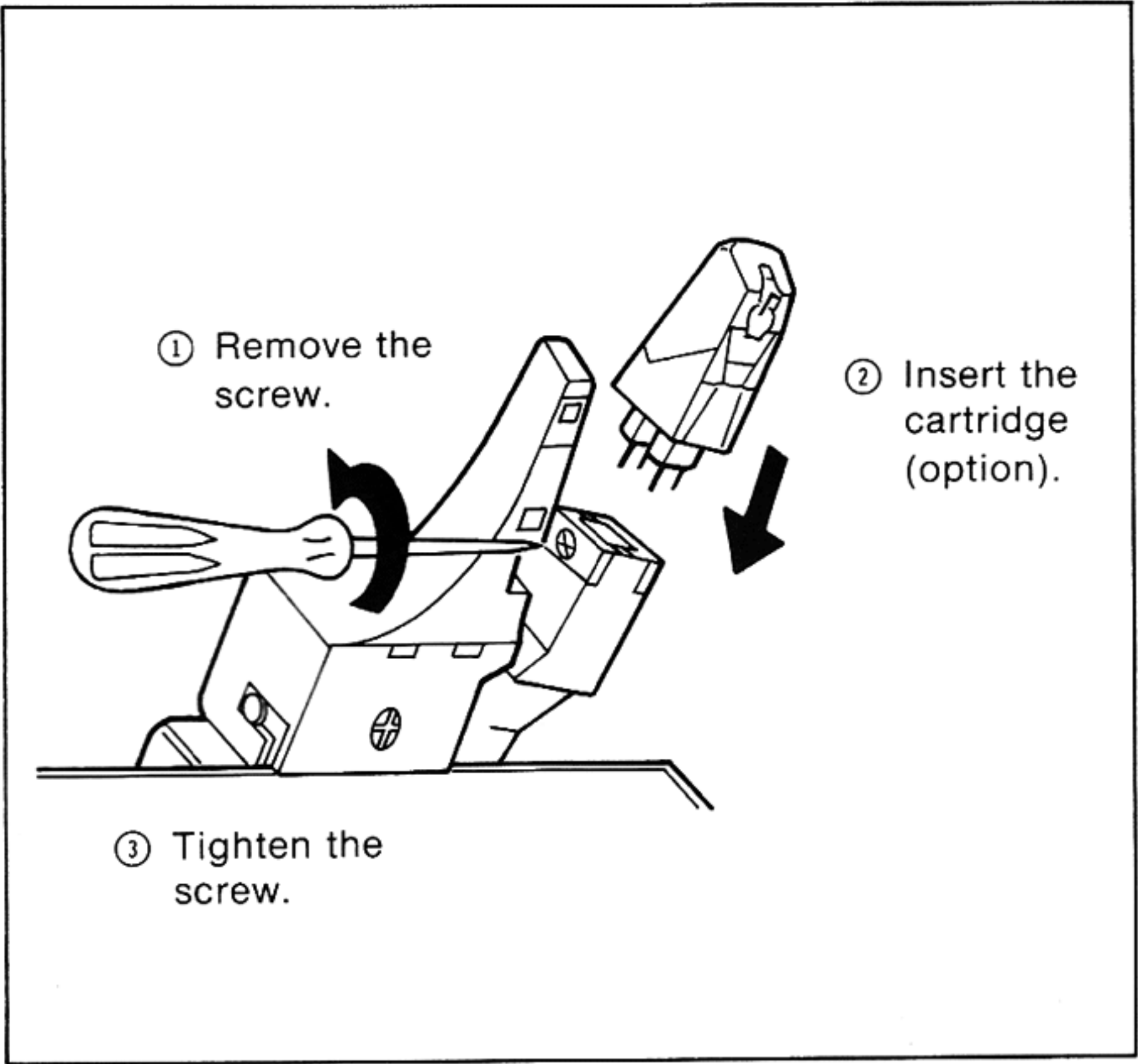
2. Place the platter mat on the platter.

Use only the included platter mat.



3. Attach a T4P cartridge (option).

- T4P is the standard mark for the "P-mount" plug-in-connector system. Products carrying this mark are interchangeable and compatible with each other.
- Installation:** (Refer to page 4.)
1. Place a 30 cm (12") disc on the platter mat and close the upper cabinet.
 2. Press the power switch to turn on the electrical power supply of this unit. (The tonearm will move inward automatically.)
 3. When the tonearm moves over to about the 25 cm (10") position, press the power switch to turn off.
 4. Open the upper cabinet, then attach a T4P cartridge (option) as shown below.



Operation

Before beginning play

1 Power switch/indicator (power)

Press.

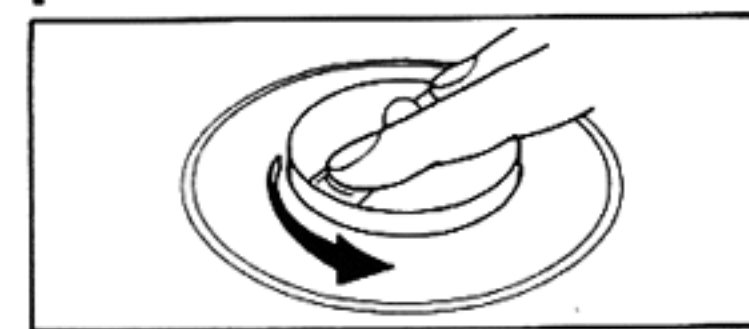
(The indicator will illuminate.)

2 Open the upper cabinet.

3 Place a disc on the platter mat.

45-rpm adaptor

For a 17-cm (7") (large center hole) disc



Raise 45-rpm adaptor by pressing and turning counterclockwise. The adaptor will then pop up. (When the adaptor is not needed, press down and turn clockwise.)

5 Close the upper cabinet.

(The tonearm will scan the disc to count the number of tunes on it. The corresponding program indicators will illuminate.)

Note:

The tonearm will not scan a 17-cm (7") disc.

4 Set each selector as shown below.

size	Size selector (size) : "auto"
sens	Sensitivity selector (sens) : "M"
speed	Speed selector (speed) : "auto"

Notes:

- To assure proper operation, wait about two seconds after pressing the power switch before using any buttons.
- Open the upper cabinet gently.

Program buttons/indicators (1~8)

Listening to a disc from beginning

1 Follow the steps 1~5 of the "Before beginning the play" on the above.

2 Start button (◀start)

Press.

Play starts and the program indicator corresponding to the tune being played flashes.

For 30-cm (12") disc

Play starts and the program indicator flashes what tune is playing.

For 17-cm (7") discs

The tonearm will move and search the total number on the disc, then the corresponding program indicators will illuminate.

Note:

When a disc which has more than 8 tunes on one side is played, program indicator 8 will flash during play of the higher number tunes. Pressing the start button during play will cause the disc to be replayed from the beginning.

Search buttons (search)

Press to search forward or backward over the tune being played.

Press the cueing switch to resume play.

The tonearm can only be moved over the tune currently being played.

Repeat switch/indicator (repeat)

Press for repeat play.

(The indicator will illuminate.)

To stop repeat play, press this switch again or press the stop/clear button.

Stop/clear button (■stop/clear)

Press to stop play.

(The tonearm will automatically return to the rest position and rotation will stop. All previous commands are cancelled.)

Cueing switch (cueing)

Press to stop the play temporarily.

Press again to resume the play.

Programmed play

1 Follow the steps 1~5 of the “Before beginning the play” on page 4.

2 Press the program buttons in the desired order.

(The indicator will illuminate.)

If the tune is programmed by mistake, press the button again to cancel the selection.

For discs containing more than 8 tunes:

When the 8th tune is selected, all remaining songs will be played in succession.

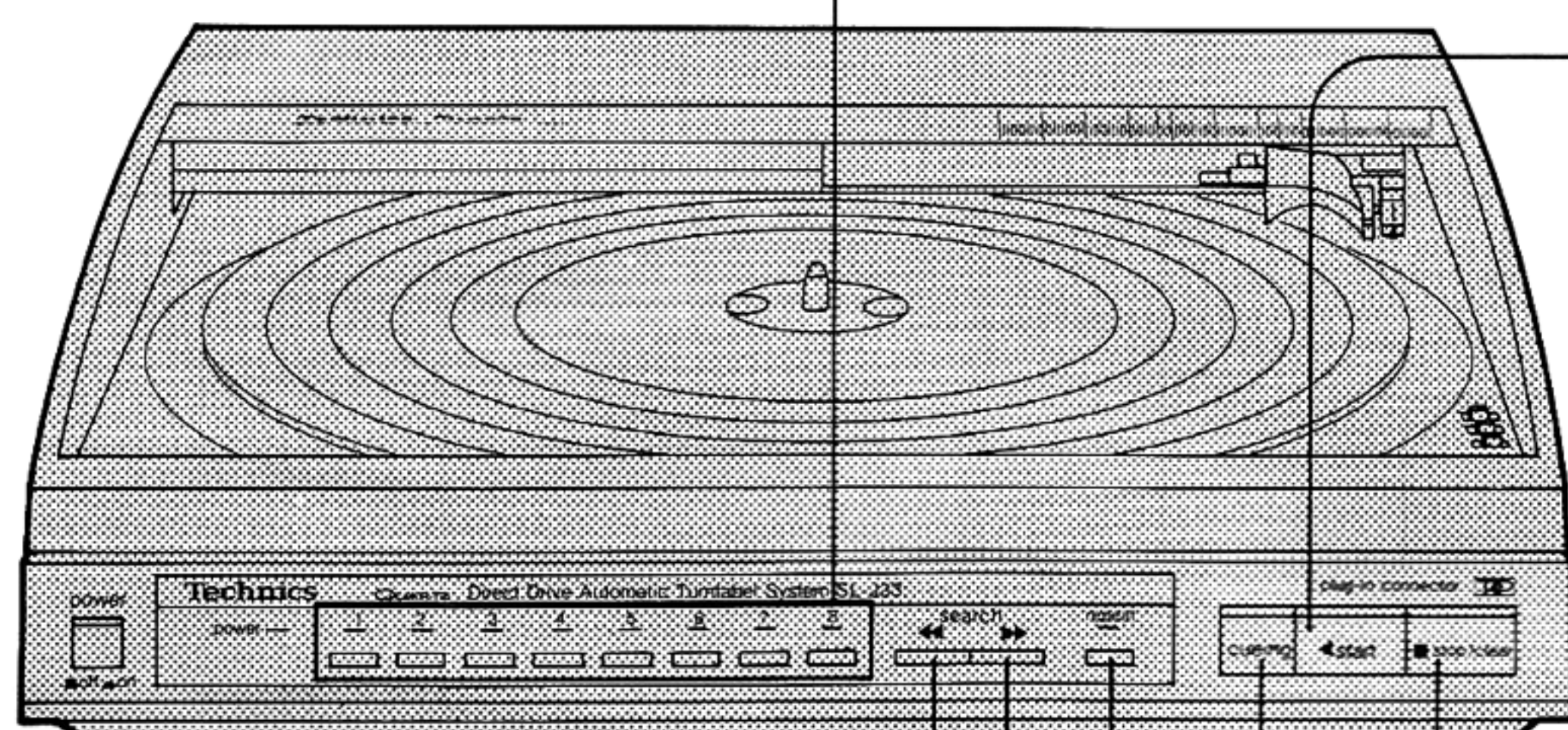
Tune numbers higher than 8 cannot be selected.

3 Press. (Play starts and the program indicator flashes what tune is playing.)

If the start button is pressed during play, the repeat indicator will flash and play will resume from the beginning of the program sequence.

Note:

- There is a delay of about 10 seconds between tunes in a program sequence.
- Program play is only possible with 30-cm (12”) discs. The current program can be altered by repeating steps 2 and 3 above.



Press to search forward or backward over the tune being played.
Press the cueing switch to resume play. The tonearm can only be moved over the tune currently being played.
Press to repeat the programmed tune. (The indicator will illuminate.)
To stop repeat play, press this switch again or press the stop/clear button.

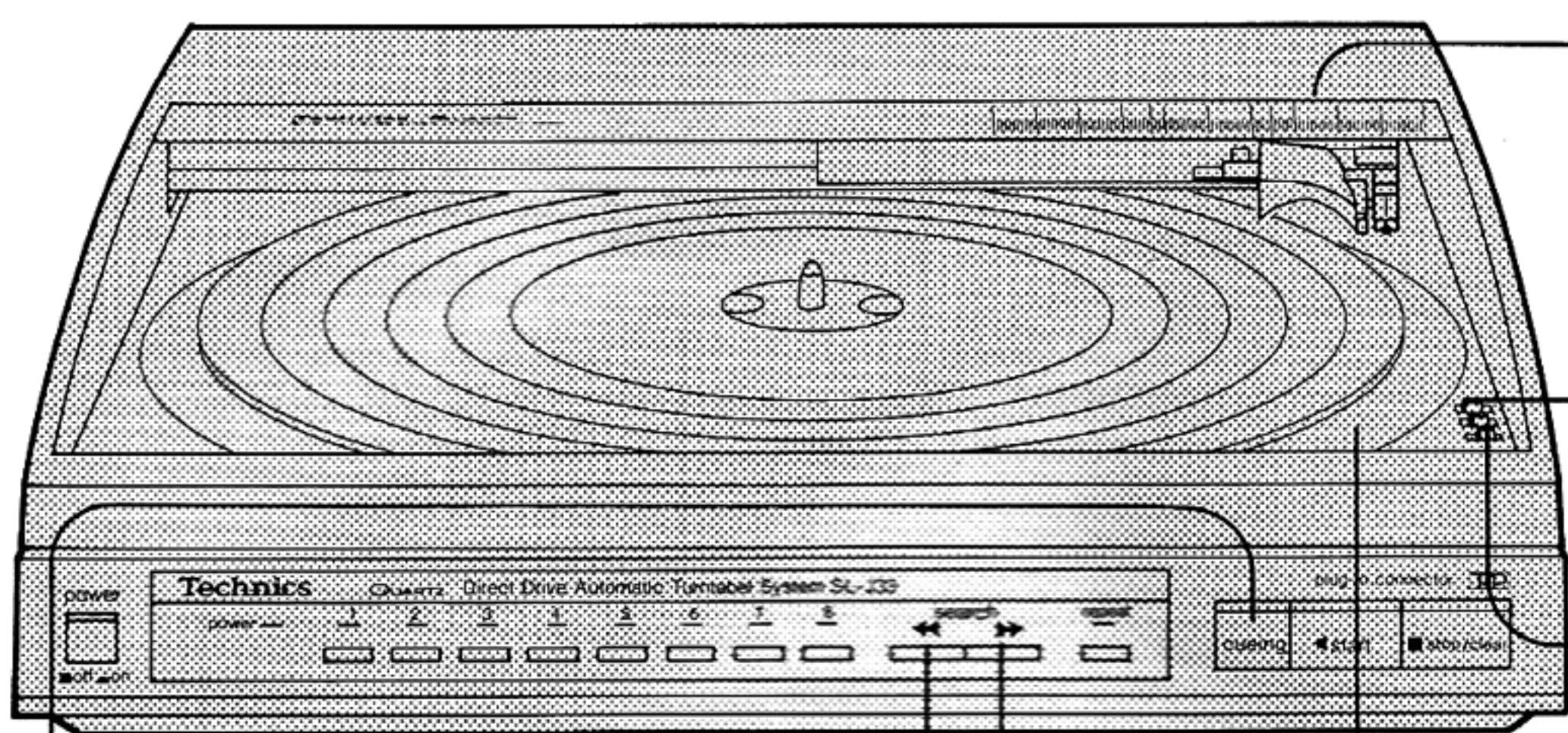
Press to stop the play. (The tonearm will automatically return to the start position, then the rotation will stop.)
(The programmed play and the repeat play will be cancelled.)

Press to stop the play temporarily. Press again to resume the play.

Manual play

The following types of discs should be played manually.

- Discs other than 17- or 30-cm discs
- Lightweight discs such as “Soundsheets”
- Badly warped discs
- Transparent or colored discs.



Disc groove scale

A scale with 1 mm graduations that is useful for determining the tonearm position.

1 Follow steps 1~3 of “Before beginning play” on page 4.

2 **Size selector (size)**
Set to “manual”.

3 **Speed selector (speed)**
Set to disc’s speed.

6 Press the cueing switch. (Play will start.)

5 Move the tonearm to the desired position.

4 Close the upper cabinet.

Notes:

1. After listening is finished, set both the size selector and the speed selector to the “auto” position.
2. Programmed play is not possible in the manual mode.

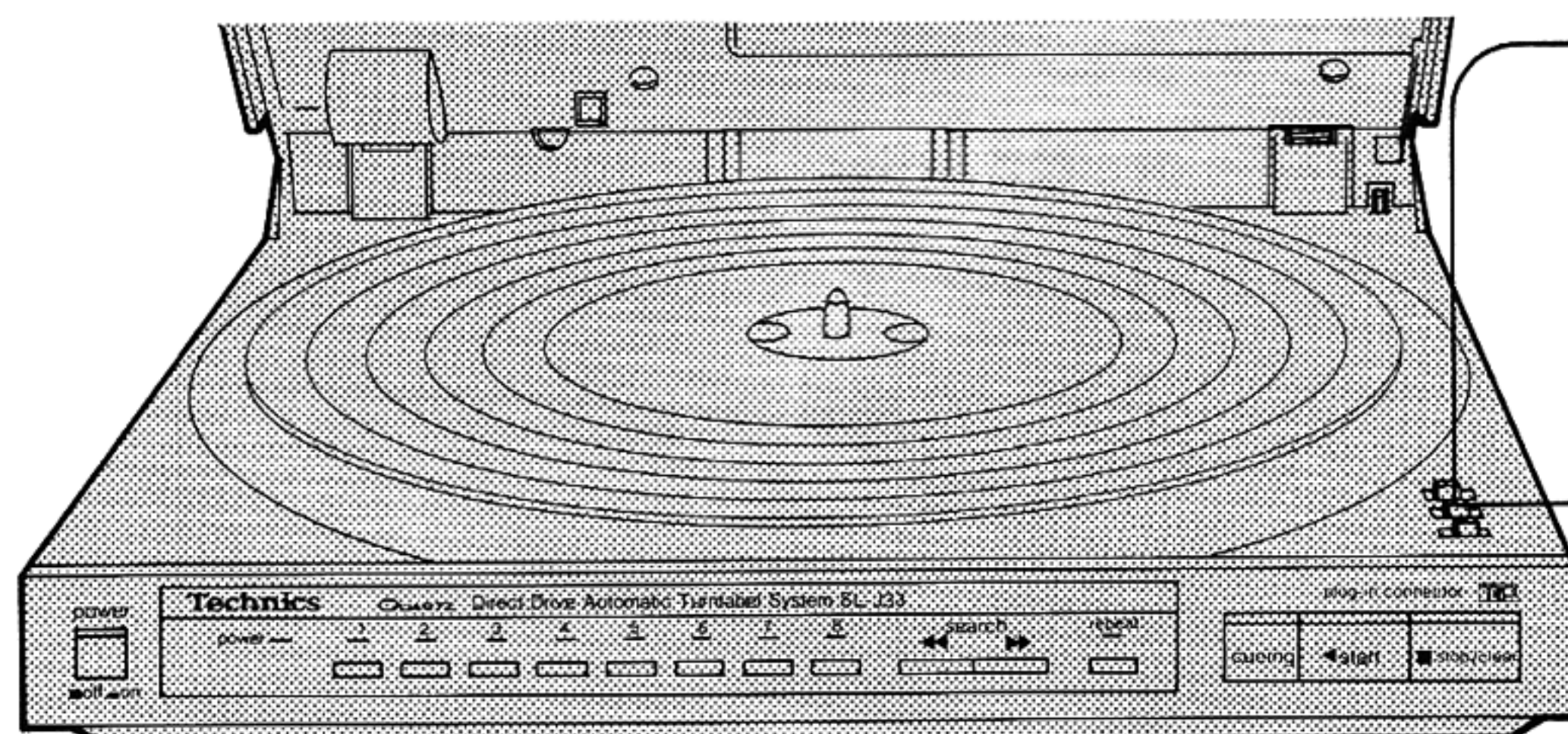
After use

After listening is finished, the power switch of this unit should be turned “off”.

Adjustments

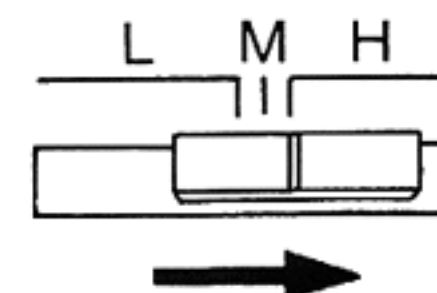
When the number of tunes is not detected properly

In case of short spaces between tunes or highly modulated grooves, the blank detection circuit may not operate properly.



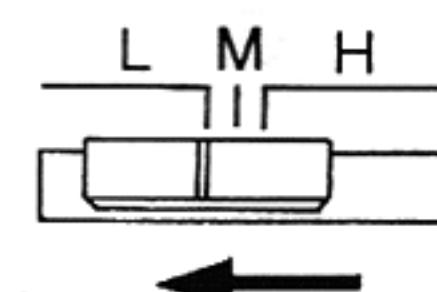
Short spaces between tunes

Specified tune is skipped Set the sensitivity selector over and the next tune is played instead.



Highly modulated grooves

Play starts from the middle Set the sensitivity selector to the "L" position.

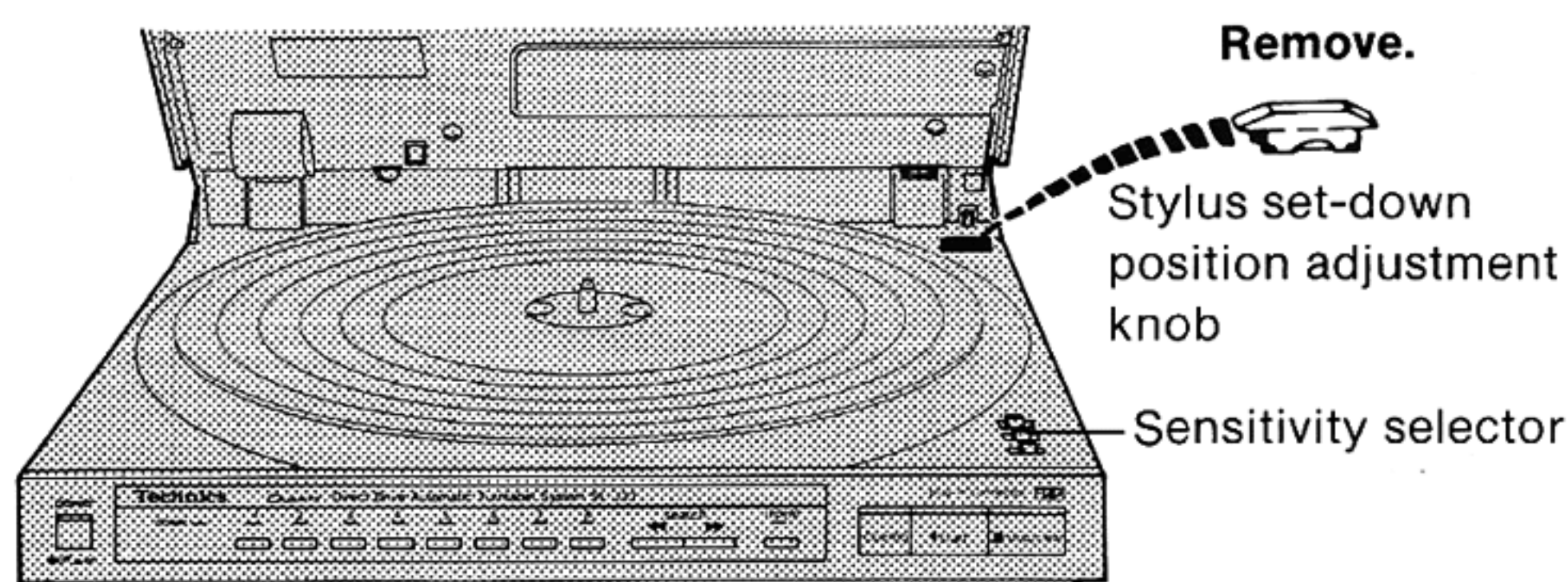


Notes

1. After listening is finished, be sure to set the sensitivity selector to the "M" position.
2. If the operations described above do not solve the problem, play the disc manually.

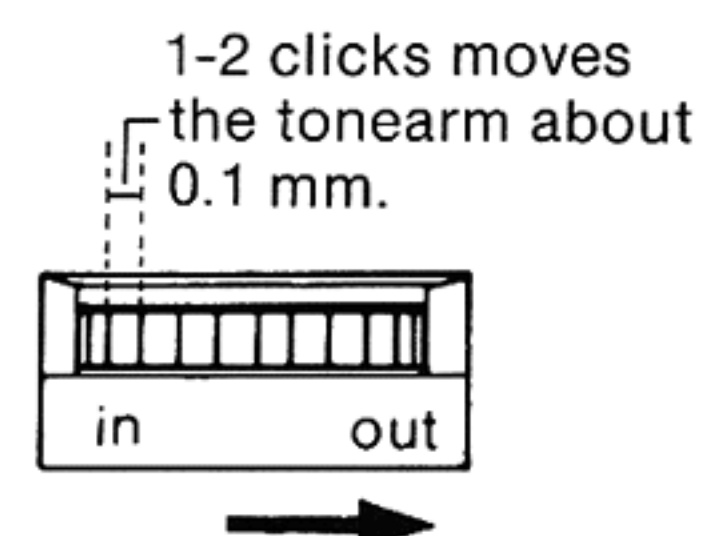
Adjustment of the stylus-set-down position

The stylus-set-down position is preset at the factory. If, during the programmed play, no sound is heard even when the stylus reaches the beginning of the specified tune or, no sound is heard for a long time after the stylus contacts the disc, make the adjustment.

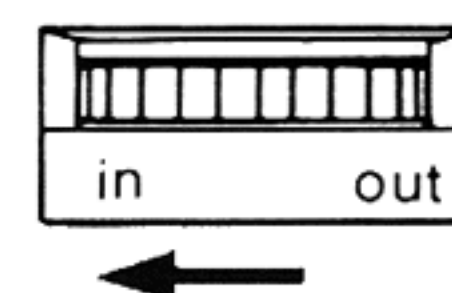


1. Set the sensitivity selector to the "H" position
2. Remove the cap, then rotate the stylus set-down position adjustment knob as described below:

If the first few seconds of the specified tune are not audible or the beginning of the tune after the specified tune is played, rotate towards the "out" direction (to the right).



If no sound is heard for a long time after the stylus contacts the disc (more than 20 seconds) or the tonearm lifts before the end of the tune, rotate towards the "in" direction (to the left).



Notes

- The first tune of a disc can not be adjusted. Adjustment is possible only for tunes 2 through 8.
- If between-tune gaps are extremely short or contains music and/or when an eccentric disc is used, this adjustment will not correct the problem and the disc should be played manually.

Always return the sensitivity selector to "M" position after completing the above adjustment.

Replacement

Replacement of the stylus

If noise is heard from new discs, the stylus is probably worn. Replace it with a new one.
(Refer to the operating instructions of the cartridge.)

Replacement of the cartridge

The plug-in type of cartridge is already designed to match this unit in every respect: weight, correct stylus pressure, stylus tip position, center of gravity, etc. This means that there's no longer any need for troublesome connection of lead wires or adjustment of the stylus pressure.
(Refer to page 3.)

Maintenance

To clean dust from the stylus

Use a soft brush or similar material to gently remove the dust. Thoroughly clean your discs occasionally with a high-quality disc cleaner.

Maintenance of external surfaces

To clean this unit, use a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth, dipped into a soap-and-water solution or a weak detergent solution.
Wring the cloth well before wiping the unit.
Wipe once again with a soft, dry cloth.
Never use alcohol, paint thinner, benzene, nor a chemically treated cloth to clean this unit.
Such chemicals may damage the finish of your unit.

Suggestions for Safety

Before using this unit, be sure to read the applicable items of operating instructions and these safety suggestions carefully. 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. Don't allow water or any foreign object to get inside this unit.

Don't 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.

Don't 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 follow the recommendations for this unit in the operating instructions.

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 in the operating instructions.

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. 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 service center).

12. 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 service center).

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized service centers (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
During disc play		
A loud and unusual sound ("howling") is heard when the volume level is increased.	The location of the turntable and speaker systems is unstable.	<ul style="list-style-type: none">• If the equipment is unstable because it is located upon a soft surface, such as a carpet, place a solid material (such as concrete blocks, bricks, a hard board, etc.) beneath the speaker systems.• Try moving the turntable farther away from the speaker systems.• Try placing a cushioning material (such as felt or commercially available audio insulators) beneath the turntable.
	Disc is old or scratched.	<ul style="list-style-type: none">• Turn the treble tone control of the amplifier to reduce the treble sound.
	Dust in disc grooves.	<ul style="list-style-type: none">• Use a disc cleaner to remove the dust from the disc grooves.
	Stylus needle is worn.	<ul style="list-style-type: none">• If the noise is heard even when a new disc is played, probably the stylus is worn. Replace it with a new stylus.
Unusual scratching noises are heard.	Dust is attached to stylus tip.	<ul style="list-style-type: none">• Remove the dust by using a soft brush.

Technical Specifications

■ TURNTABLE SECTION

Type	Automatic turntable
Drive method	Direct drive
Motor	Brushless-DC motor
Drive control method	Quartz-phase-locked control
Turntable platter	Aluminum die-cast Diameter 300 mm (12")
Turntable speeds	33-1/3 rpm and 45 rpm
Wow and flutter	0.012% WRMS (*) 0.025% WRMS (JIS C5521) ±0.035% weighted zero to peak (IEC 98A weighted)
Rumble	78 dB DIN-B (IEC 98A weighted) 56 dB DIN-A (IEC 98A unweighted)

■ TONEARM SECTION

Type	Static-balanced, Linear tracking tonearm Plug-in-connector type straight tonearm
Effective length	105 mm (4-1/8")
Tracking error angle	Within ±0.1°
Effective mass	9 g (including cartridge)
Resonance frequency	12 Hz (Compliance 12×10 ⁻⁶ cm/dyne)
Cartridge weight	6 g, stylus pressure 1.25 g
Phono cable capacitance	120pF

■ GENERAL

Power supply	AC 120V, 60 Hz
Power consumption	10 W
Dimensions (W×H×D)	315×88×315 mm (12-1/2"×3-1/2"×12-1/2")
Weight	4.1 kg (9 lb.)

* This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

Product Service

The unit should be serviced by qualified technicians only. No service information is provided for customers. Your product is designed and manufactured to ensure a minimum of maintenance. However, should your unit ever require service, a nationwide system of factory servicenters and AUTHORIZED INDEPENDENT SERVICENTERS is maintained to support your product's warranty.

(In U.S.A., consult MSC Authorized service center for detailed instructions.)

CAUTION

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications set forth in Subpart J of Part 15 of the FCC Rules. If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

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