



audio-technica

AT-LP7X

Belt-Drive Turntable

User Manual

English

Introduction

This product can be used only in the countries where the product is sold. Make sure that the operating voltage and the plug of AC adapter of the product are correct for the country you live in.

Safety precautions

Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

Important information

Warning

To prevent fire or shock hazard, do not expose this apparatus to rain or moisture.

Caution

- Do not expose this apparatus to drips or splashes.
- To avoid electric shock, do not open the cabinet.
- Refer servicing to qualified personnel only.
- Do not expose this apparatus to excessive heat such as sunshine, fire or the like.
- Do not subject this apparatus to strong impact.
- This apparatus should be located close enough to the AC outlet so that you can easily grasp the AC adapter at any time.
- In case of emergency, disconnect the AC adapter of this apparatus quickly.
- Do not place any objects filled with liquids, such as vases, on this apparatus.
- To prevent fire, do not place any naked flame sources (such as lighted candles) on this apparatus.
- Do not install this apparatus in a confined space such as a bookcase or similar unit.
- Install this apparatus only in the place where ventilation is good.

For customers in the USA

FCC Notice

Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Safety precautions

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Contact

Responsible Company: Audio-Technica U.S., Inc.
Address: 1221 Commerce Drive, Stow, Ohio 44224, USA
Tel: 330-686-2600

For customers in Canada

ISED statement

CAN ICES(B)/NMB(B)

Notes on use

Turntable body

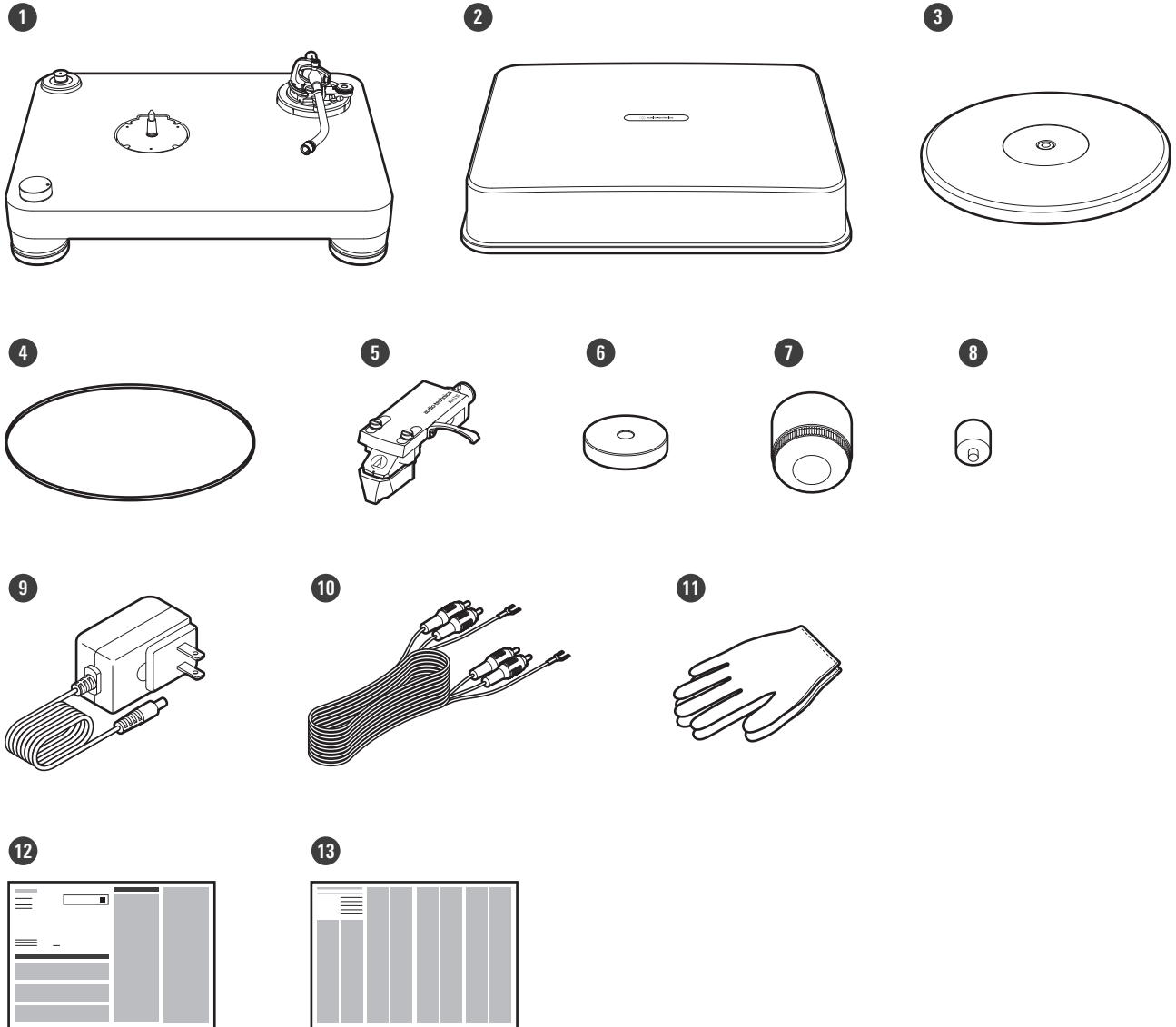
- Do not set and use the product in locations that are considerably hot or humid, dirty, or subject to extreme vibrations.
- The product should be positioned on a flat, level surface.
- This product is partially made of acrylic material. Do not use alcohol, detergent, or other chemicals to clean. Doing so may cause cracks, discoloration, or deterioration. Wet a cotton or cloth with water, wring it out well, and wipe off any dirt.
- When handling the platter, use the included gloves to avoid transferring fingerprints or oils from the skin onto the platter surface.

Cartridge

- The stylus is extremely delicate. Handle with care.
- Attach the provided protector to the cartridge when the product is not in use.
- Do not touch the stylus of the cartridge with your finger.
- Do not allow the stylus to bump against the platter or edge of the record.
- Be sure to attach the protector before placing the cartridge on the floor or a desk. Do not place the stylus against the floor or a desk. Doing so could damage, chip, or break the stylus.
- The cartridge of this product is not intended for DJs. Do not operate the product in any way that may damage the stylus, such as scratching (rubbing the record on the turntable by hand to produce sound).
- Do not apply lateral force to the stylus while it is on the record. Doing so could damage, chip, or break the stylus tip. The record could also be damaged.

Package contents

- Make sure that you have all the included items before using this product.
- If some items are missing or damaged, contact your local Audio-Technica dealer.
- After purchase, we suggest that you save all packaging materials for possible future storage, moving, or shipping.



- 1 Turntable body
- 2 Dust cover
- 3 Platter
- 4 Drive belt
- 5 Headshell with cartridge
- 6 45 RPM adapter
- 7 Counterweight
- 8 Subcounterweight (light)

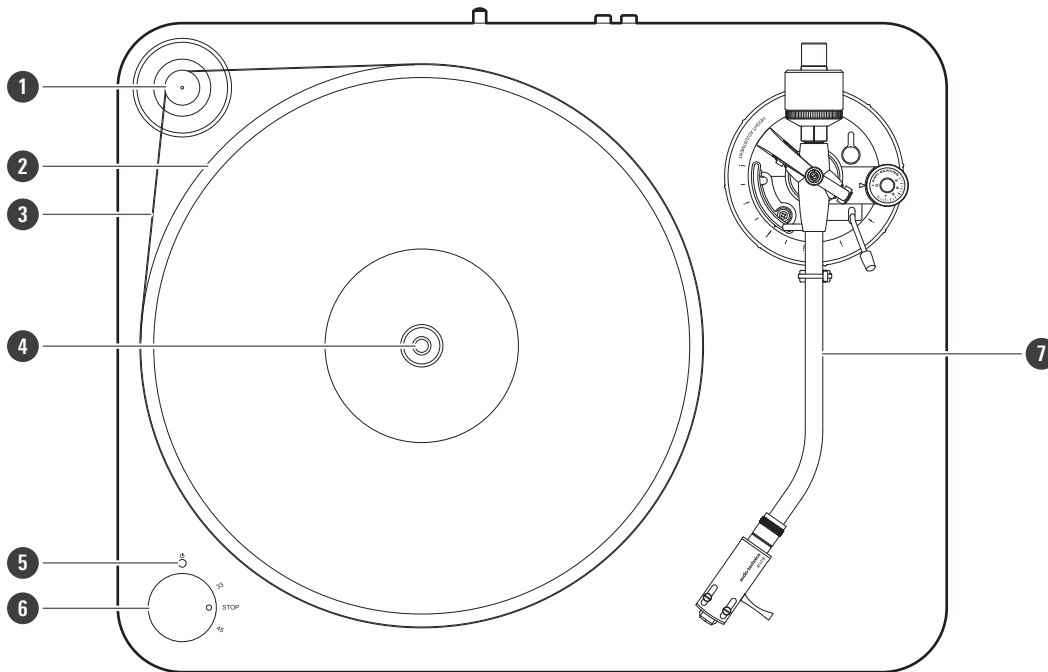
A subcounterweight (heavy) is also available sold separately. Purchase as needed.

Package contents

- 9 AC adapter (Approx. 1.3 m (4.3'))
- 10 RCA audio cable (Approx. 1.4 m (4.6'))
- 11 Gloves
- 12 Quick Start Guide
- 13 Caution Guide

Part names and functions

Top view



1 Motor pulley

2 Platter

3 Drive belt

4 Spindle

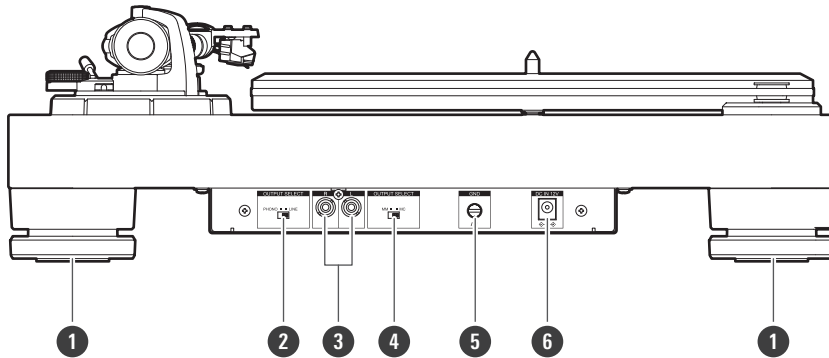
5 Power supply indicator lamp

6 Control knob

Use to select the platter speed (33-1/3 or 45 RPM) or start/stop the platter.

7 Tonearm

Rear view



1 Foot

Adjust the level of the product.

2 Pre-amplifier selector switch

If connecting to an amplifier's PHONO input jack, set this switch to the PHONO position. If connecting to the LINE/AUX jack of an amplifier, set this switch to the LINE position.

3 Stereo output terminal

Connect the RCA audio cable. Connect it to the amplifier's PHONO input jack. The red terminal is the right channel and the white terminal is the left channel.

4 MM (VM)/MC cartridge selector switch

When using an MM (VM) cartridge, set it to the MM side. When using an MC cartridge, set it to the MC side.

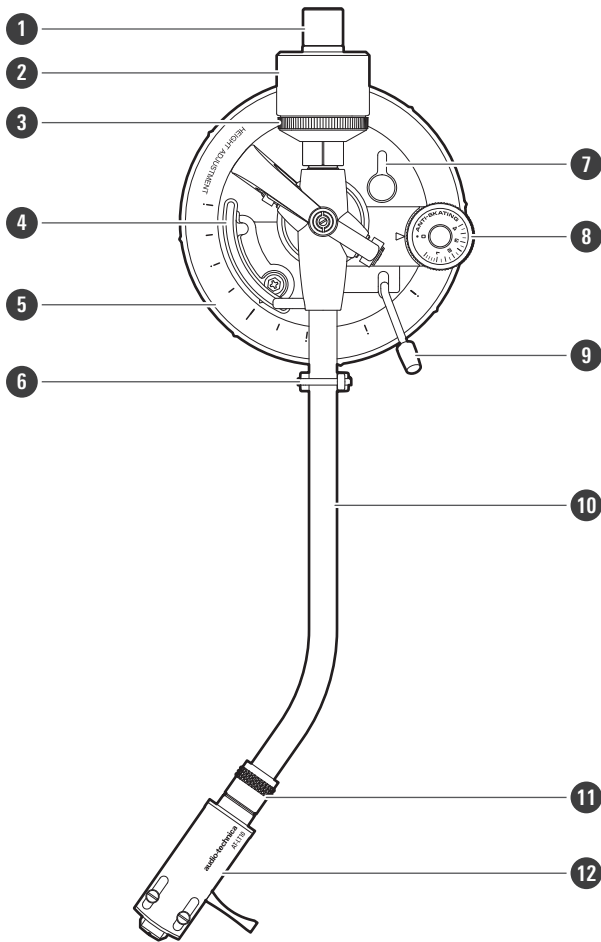
5 Ground (earth) terminal

Connect the amplifier's ground (earth) terminal to this terminal using the RCA audio cable's ground line.

6 Power input jack

Connect the AC adapter.

Tonearm



1 Subcounterweight

Attached when the tonearm's balance cannot be adjusted using the counterweight alone.

2 Counterweight

Balances the tonearm and adjusts to provide the proper tracking force.

3 Tracking force gauge ring

Use to adjust the tracking force.

4 Tonearm lift

Moves the tonearm vertically to and from the face of the record.

5 Tonearm height adjustment dial

Use the adjustment dial to adjust the height of the tonearm.

6 Tonearm rest with clamp

Use the clamp to secure the tonearm so that it does not move.

7 Tonearm height setting lever

Part names and functions

8 Anti-skate control dial

While the record is playing, a force acts on the stylus tip to pull it inward. This force can be counteracted by setting the same values for anti-skate and the tracking force.

9 Tonearm lift control lever

Operates the tonearm lift.

10 Tonearm

11 Locking ring

Rotate the ring to the left (counterclockwise) to secure the headshell. To remove the headshell, rotate the ring to the right.

12 Headshell and cartridge

The cartridge is attached to the headshell.

Preparation for use

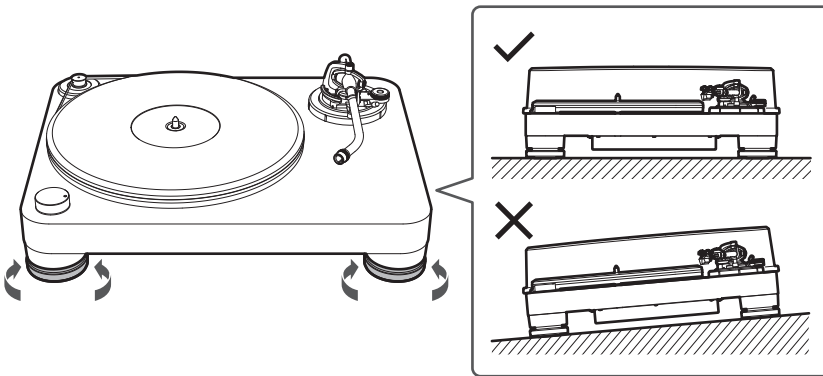
Setting up the turntable

- Position the product on a level surface.
- To avoid the effects of vibrations and acoustic pressure, do not mount the product next to such items as speakers.
- The product may pick up radio static if placed next to a radio. Therefore, try to keep the product away from radios.
- If the product is near equipment (cell phone, etc.) that emits strong radio waves, noise may occur.

Leveling the turntable

After positioning the product where you want to use it, adjust the feet so that the product is level.

- Use a level (sold separately) as needed to ensure that the product is level.



Placing the platter

- This product requires some assembly before using it for the first time. Do not connect the AC adapter until assembly is complete.
- When handling the platter, use the included gloves to avoid transferring fingerprints or oils from the skin onto the platter surface.

1 Attach the drive belt to the side of the platter.

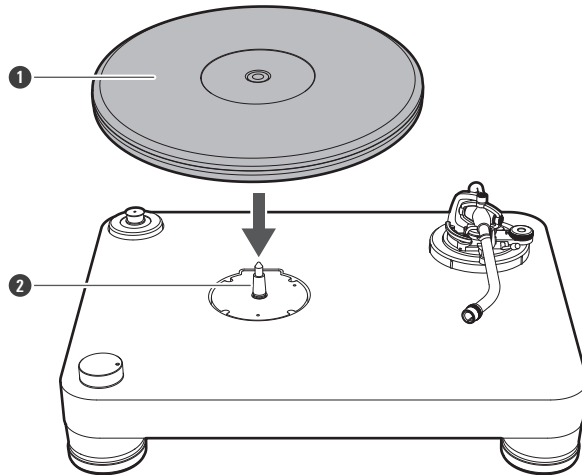


- ① Platter
- ② Drive belt

2 Set the platter on the spindle.

Preparation for use

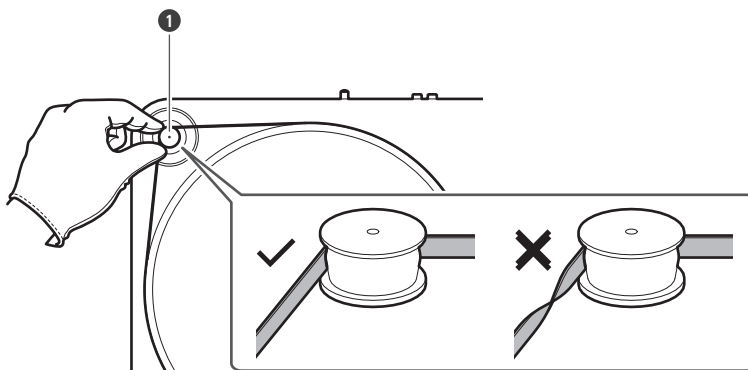
- To avoid damaging the spindle when seating the platter, align the positions of the spindle and the platter's hole, and then slowly seat the platter.
- Make certain that the platter is fully seated on the spindle.



- ① Platter
- ② Spindle

3 Attach the drive belt to the motor pulley.

- Make sure that the belt does not get twisted.



- ① Motor pulley

Assembling the tonearm

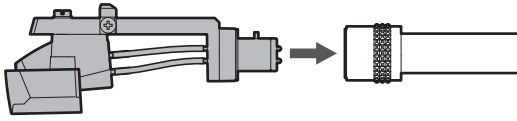
1 Remove the cable tie used to secure the tonearm at the time of delivery.

- Use the clamp to temporarily secure the tonearm to the tonearm rest.

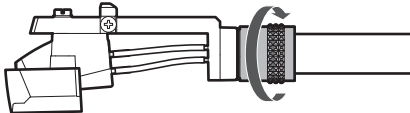
2 Insert the headshell into the tonearm.

- Hold the right and left edges of the headshell so that you do not damage the stylus or cut the cartridge's wires.

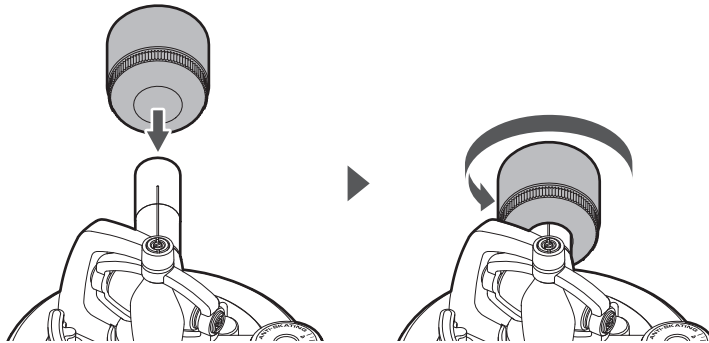
Preparation for use



- 3** With the headshell inserted, turn the locking ring counterclockwise (to the left).



- 4** Attach the counterweight to the back of the tonearm and slowly turn it counterclockwise (to the left).



Tonearm balance and tracking force

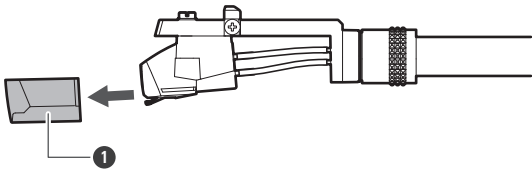
In order for the cartridge to pick up sound correctly from the record's grooves, the tonearm's balance and tracking force must be adjusted to fit the specifications of the cartridge. If the tonearm's balance and tracking force are not properly adjusted, the record or the cartridge's stylus may become damaged.

- Do not drag the cartridge's stylus across the record or platter when adjusting the tonearm's balance or tracking force. Doing so may damage the stylus.

Setting tonearm balance

- 1** Remove the cartridge's protector.

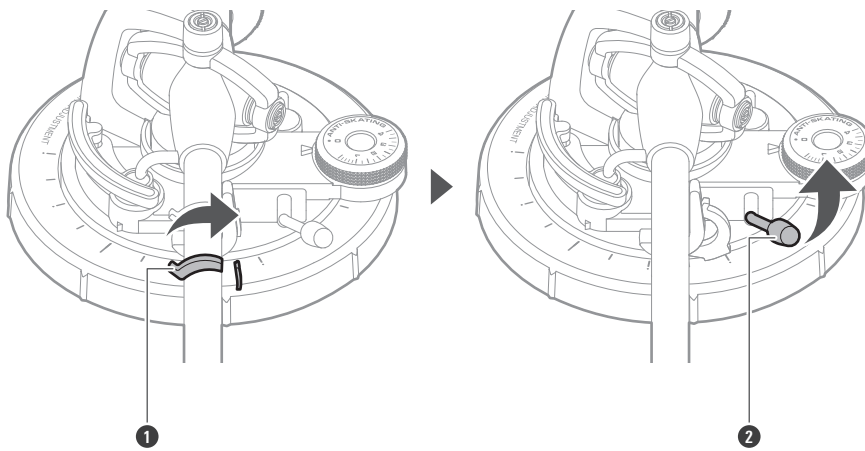
Preparation for use



1 Protector

2 Remove the clamp and lift the tonearm lift control lever.

- The tonearm is tilted because the balance has yet to be adjusted.

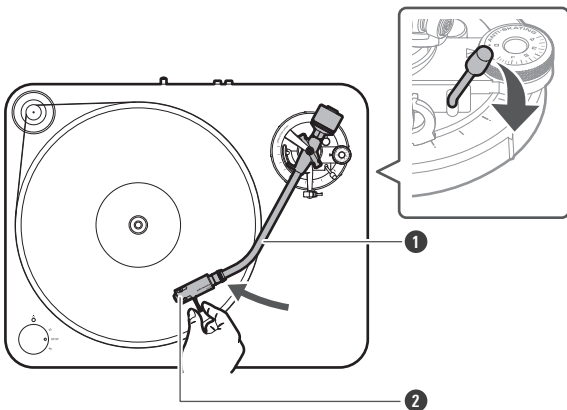


1 Clamp

2 Tonearm lift control lever

3 Move the tonearm over the platter. Lower the tonearm lift control lever while holding the headshell.

- Be careful not to allow the stylus tip to touch the platter or turntable body.



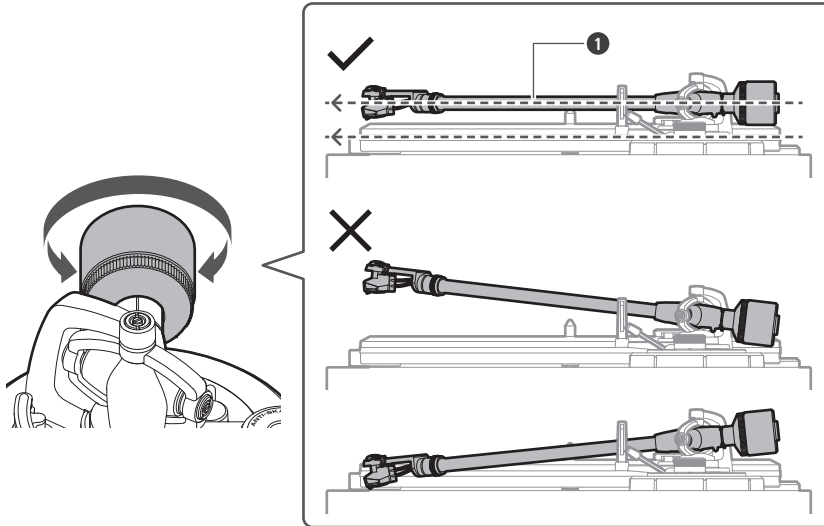
1 Tonearm

2 Headshell

Preparation for use

4 While still lightly holding the headshell, turn the counterweight to adjust the tonearm's balance.

- Adjust the balance so that the tonearm is level when you release the headshell.



1 Tonearm

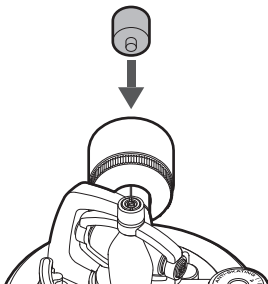
5 Return the tonearm to the tonearm rest.

How to attach the subcounterweight

Attach the subcounterweight when the tonearm's balance cannot be adjusted using the counterweight alone. This may be necessary if you are using another commercially available cartridge other than the one supplied with this product.

1 Attach the subcounterweight to the back of the tonearm.

- Attach the subcounterweight with the tonearm fixed to the armrest.

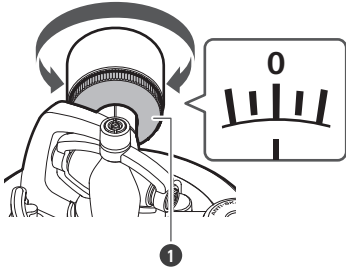


- The product includes a subcounterweight (light). A subcounterweight (heavy) is also available sold separately. Purchase as needed.

Setting tracking force

- 1** While supporting the counterweight so that it does not move, turn the tracking force gauge ring so that its "0" position lines up with the centerline on the back of the tonearm.

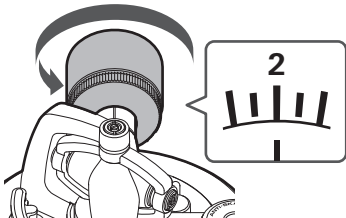
- The tracking force is not adjusted simply by turning the tracking force gauge ring.



❶ Tracking force gauge ring

- 2** Turn the counterweight and the tracking force gauge ring counterclockwise (to the left) to set the tracking force to the recommended tracking force value for the cartridge you are using.

- Refer to the cartridge maker's specifications for the recommended tracking force value.
- The tracking force value for the cartridge provided with this product is 2.0 g.



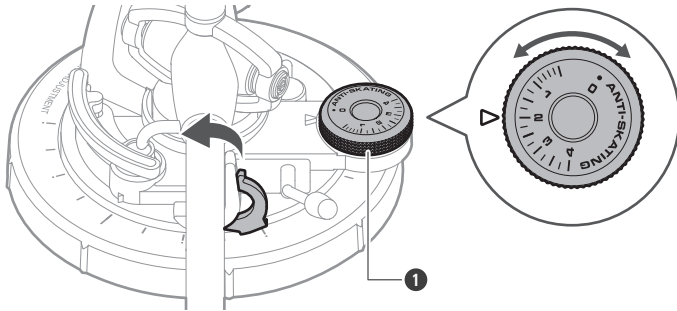
Setting the anti-skate adjustment

While the record is playing, a force acts on the stylus tip to pull it inward. This force can be counteracted by setting the same values for anti-skate and the tracking force.

- 1** Adjust the anti-skate control dial to have the same value as the tracking force value. After completing the adjustment, secure the tonearm with the clamp.

- The tracking force value for the cartridge provided with this product is 2.0 g.

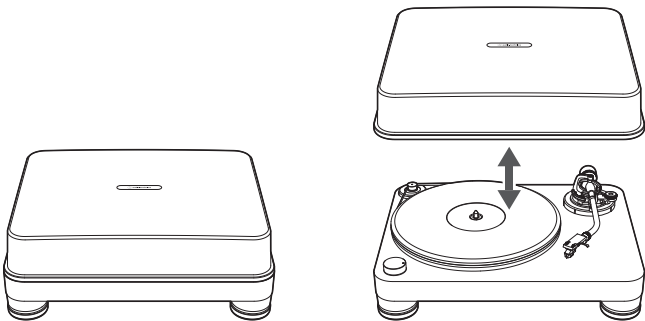
Preparation for use



1 Anti-skate control dial

Installing/removing the dust cover

The dust cover prevents dust and other particles from adhering to the product when not in use and protects its delicate parts.



Setting MM (VM)/MC cartridge selector switch

When using an MM (VM) cartridge, set it to the MM side. When using an MC cartridge, set it to the MC side.

- This switch is set to the MM position at the time of purchase. Because the cartridge (AT-VM95E) included with the product is a VM stereo cartridge, keep the switch in the MM position as long as you continue to use this cartridge.

Using the product

Setting pre-amplifier selector switch

- This product has a built-in phono equalizer function. Even if you do not have a phono amplifier or connectable equipment with a built-in phono amplifier, the product can be used by connecting active speakers, with volume control, etc.
- Use the pre-amplifier selector switch to set the output, as shown below.

Device with PHONO input

Position of pre-amplifier selector switch	Where to connect the RCA audio cable
PHONO	Phono input jack and ground (earth) terminal of connectable equipment

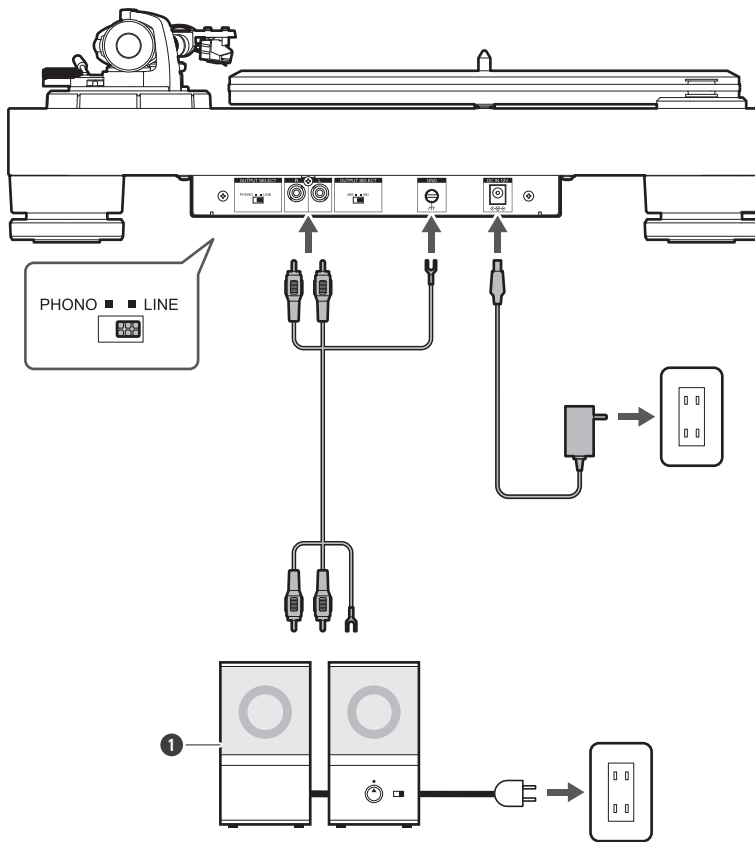
Device without PHONO input

Position of pre-amplifier selector switch	Where to connect the RCA audio cable
LINE	AUX or line input jack of connectable equipment

Connecting to active (built-in amplifier) speakers

- Use active speakers when directly connecting this product to speakers.
- Some active speakers may need to be connected using conversion cables, etc.

Using the product



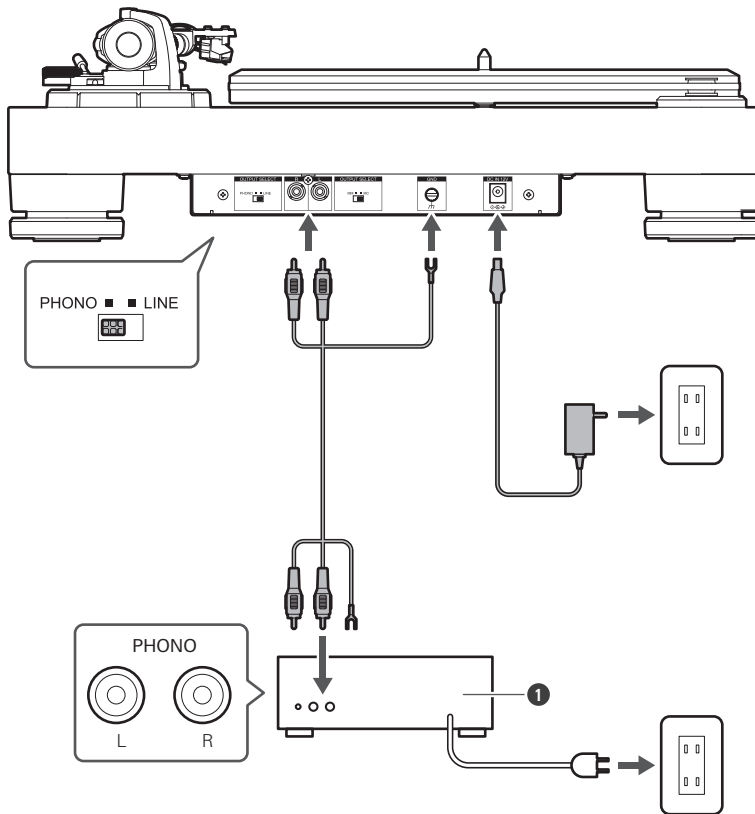
① Active speakers

Connecting to connectable equipment (amplifiers, etc.)

The RCA audio cable's red plug is for the right (R) channel, and the white plug is for the left (L) channel.

Using the product

With PHONO input

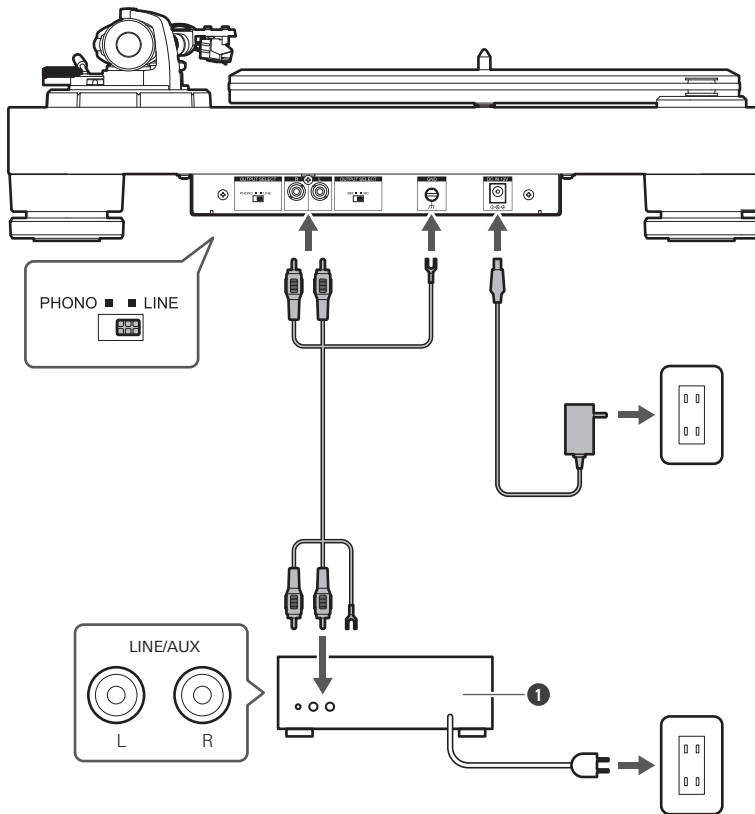


1 Connectable equipment (amplifier, etc.)



- Depending on the equipment you are connecting, a ground (earth) terminal may exist near the PHONO input jack. If this is the case, connect to it using the ground line from the RCA audio cable. This will help prevent a low humming noise that might otherwise be heard during playback.

Without PHONO input



1 Connectable equipment (amplifier, etc.)

Before playing a record

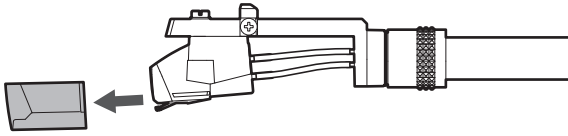
1 Plug the AC adapter into an outlet.

- For safety, raise the tonearm by lifting the tonearm lift control lever to the UP position.
- This product does not have a power switch. A standby current is always running through the product, even when it is not being used; disconnect the AC adapter from the outlet when not using the product for a long period of time.
- Make sure that the control knob is in the "STOP" position.
- If you play a record immediately after plugging the AC adapter into an outlet, the sound that is played may be garbled. Wait a short time (about 30 seconds) after plugging the AC adapter into the outlet before playing a record.

2 Remove the cartridge's protector.

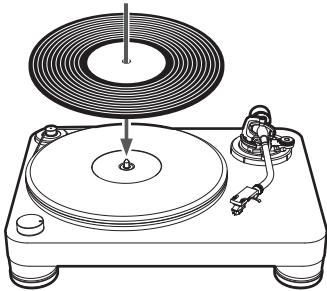
- Pull the protector straight forward to remove it.
- If the tonearm is fixed to the tonearm rest, remove the clamp.

Using the product



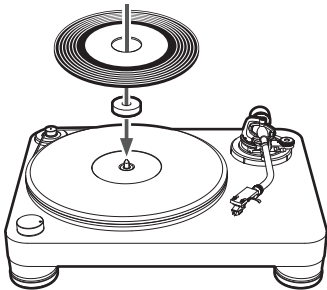
- 3** Place the record on the platter so that the center hole aligns with the spindle.

At 33-1/3 RPM



At 45 RPM

To play a 45 RPM record, attach the 45 RPM adapter.



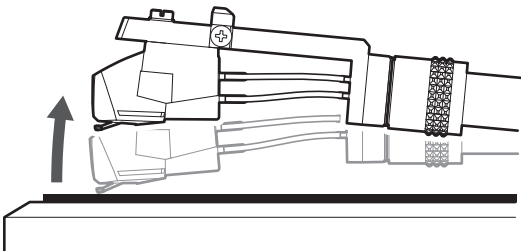
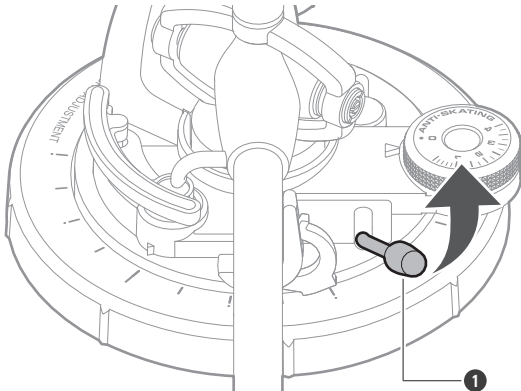
Playing a record

Lower the volume of the amplifier, active speakers, etc., sufficiently.

- 1** Use the control knob to select the speed.
 - Select "33" to play 33-1/3-RPM records or "45" to play 45-RPM records.

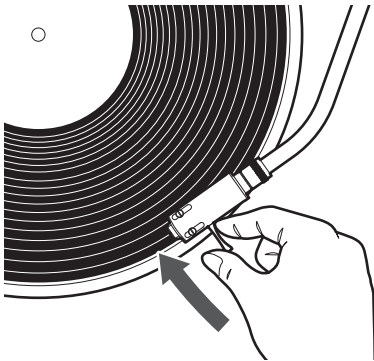
» The platter begins spinning.
- 2** Raise the tonearm by lifting the tonearm lift control lever to the UP position.

Using the product



1 Tonearm lift control lever

3 Position the tonearm over the desired location (groove) on the record.



4 Lower the tonearm by moving the tonearm lift control lever to the DOWN position.

- Alternatively, you can skip steps 2 and 3, and use your fingers to lift the headshell, move the tonearm over the desired location on the record, and then place the headshell down to begin playing the record.

» The tonearm descends slowly onto the record and play begins.



- Do not subject the product to strong impact during playback.

Pausing the record

- 1** After lowering the volume of the amplifier, etc., sufficiently, lift the tonearm with the tonearm lift control lever.

Stopping the record

- 1** Lower the volume of the amplifier, etc. sufficiently.
- 2** Lift the tonearm lift control lever and return the tonearm to the tonearm rest.
- 3** Lower the tonearm by moving the tonearm lift control lever to the DOWN position, and fix the tonearm with the clamp.
- 4** Turn the control knob to the "STOP" position.
» The platter slows down and rotation stops.
- 5** Mount the protector onto the cartridge.
- 6** Remove the record after the platter has come to a complete stop.



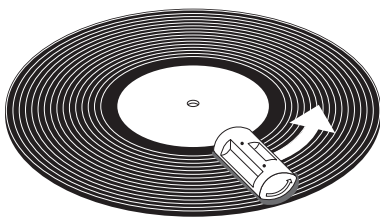
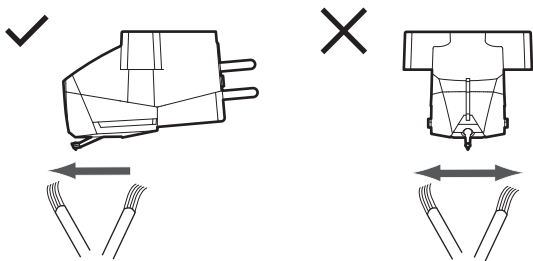
- If the platter gets dirty, it can easily scratch the record, so remove the platter periodically and wipe off any dust.
- To prevent the record from becoming scratched or warped, remove it after use.
- Do not use a platter other than the one provided.
- This product is not intended for DJs. Do not touch the record or the platter while the record is playing. Do not operate the product in any way that may damage the stylus, such as scratching (rubbing the record on the turntable by hand to produce sound).
- Do not apply lateral force to the stylus while it is on the record. Doing so could damage, chip, or break the stylus tip. The record could also be damaged.

Turntable body

- When the turntable body is dirty or dusty, disconnect the AC adapter, and then wipe off the dirt and dust with a soft, dry cloth.
- Do not use alcohol, benzenes, thinners, etc.
- This product is partially made of acrylic material. Do not use alcohol, detergent, or other chemicals to clean. Doing so may cause cracks, discoloration, or deterioration. Wet a cotton or cloth with water, wring it out well, and wipe off any dirt.
- If the platter gets dirty, it can easily scratch the record, so remove the platter periodically and wipe off any dust.
- When storing the product for a long time, disconnect the AC adapter from the outlet and wrap the equipment in plastic; do not allow it to become damp.

Cleaning the stylus tip of the cartridge/record

- If dirt and grime are stuck to the stylus tip, clean it as needed. To clean the stylus, disconnect the AC adapter from the outlet.
- We recommend using a stylus cleaner (sold separately by Audio-Technica) if the stylus tip is considerably dirty. Clean the stylus tip by moving the brush from the rear to the front of the stylus tip.
- For more details on record and stylus cleaners (sold separately by Audio-Technica), please visit the Audio-Technica website (<https://www.audio-technica.com/>).



Replacing the stylus

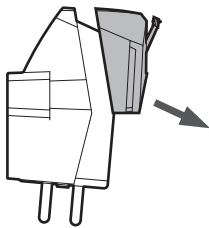
Removing the stylus

- In addition to the deterioration of sound quality, records may also be damaged as the stylus tip of the cartridge wears down.
- As a rule of thumb, replace the stylus after 300 hours of use.
- Be sure to disconnect the product's AC adapter from the outlet.
- Firmly hold the headshell and cartridge when replacing the stylus.

1 Release the headshell from the tonearm.

- Fix the tonearm with the clamp and then remove the headshell gently.

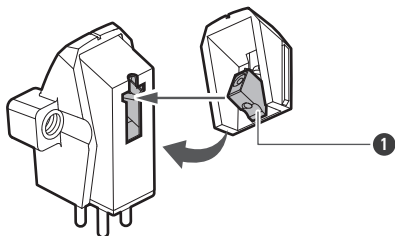
2 After removing the cartridge's protector, remove the stylus by pulling it in the direction of the arrow without touching the cantilever, stylus tip, or magnet.



- Do not touch the cantilever, stylus tip, or magnet of the replacement stylus.

Installing a new replacement stylus

1 Mount the new replacement stylus to the cartridge.



- ① Align the position of the inner protrusion.

2 Mount the headshell onto the tonearm.



- Do not touch the cantilever, stylus tip, or magnet of the replacement stylus.

Replacing a cartridge

- Refer to the user manual for the replacement cartridge if you are replacing the cartridge with a different brand/model than the one included.
- After you replace the old cartridge with a new one, you must readjust the overhang and the tonearm's balance and tracking force.

1 Release the headshell from the tonearm.

- Use the clamp to secure the tonearm and then remove the headshell gently.

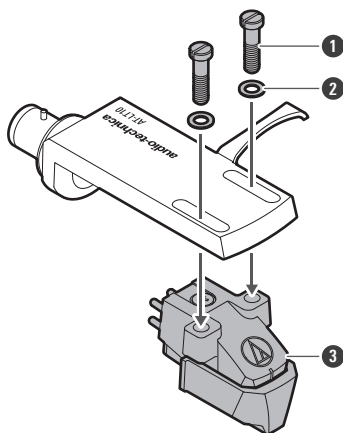
2 Remove the stylus from the cartridge.

3 Remove the lead tips.

- Be careful not to damage the lead tips.

4 Using a commercially sold, non-metallic slotted screwdriver, remove the installation screws, and then remove the cartridge from the headshell.

5 Refer to the user manual for the new cartridge for mounting instructions and connecting to the lead tips.



- ① Installation screw
- ② Washer
- ③ Cartridge

6 Using a commercially sold, non-magnetic slotted screwdriver, loosen both of the installation screws, and then adjust the overhang.

- Refer to "Adjusting the overhang" (p. 31).
- After the adjustments are complete, tighten the screws securely.

7 Attach the headshell to the tonearm.

Replacing a cartridge

8 Adjust the tonearm balance and tracking force.

- Refer to "Setting tonearm balance" (p. 13) and "Setting tracking force" (p. 16) to adjust them.

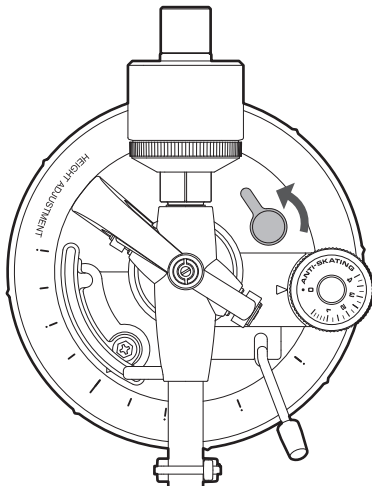
9 Adjust the tonearm's height.

- Refer to "Adjusting the tonearm's height" (p. 29) while doing the adjustments.

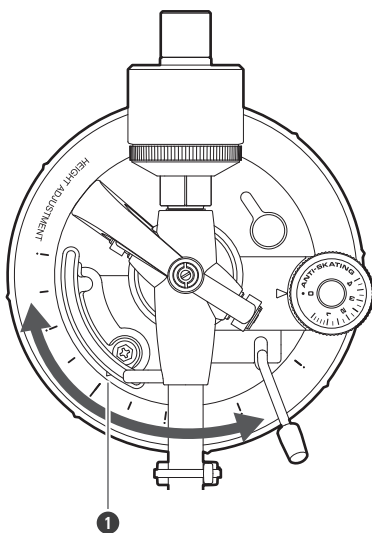
Adjusting the tonearm's height

When installing a cartridge other than the one provided, you must maintain a suitable distance between the cartridge and the surface of the record. Place the stylus tip with recommended tracking force on the record and confirm that the tonearm is parallel to the record's surface. If it is not parallel, adjust the height of the tonearm.

- 1 Rotate the tonearm's height setting lever to loosen the tonearm's anchor.**



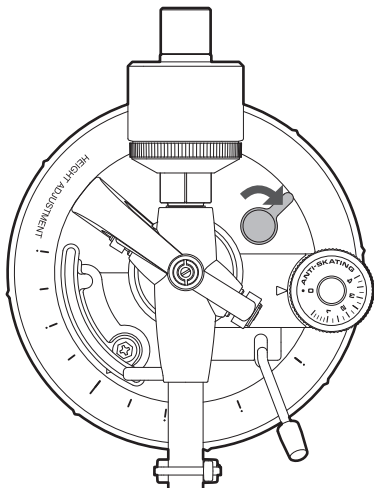
- 2 Rotate the tonearm's height adjustment dial and adjust the tonearm's height.**



1 Guideline

- 3 After the adjustments are complete, rotate the tonearm's height setting lever to set the tonearm.**

Adjusting the tonearm's height



- 4** Place a record on the platter, position the cartridge over the record. Lower the stylus tip to the record surface, and confirm that the tonearm is parallel to the record's surface.

Adjusting the overhang

- The position of the cartridge must be accurately determined (adjusting the overhang) when mounting a cartridge or headshell other than the one provided.
- Please use a printer to print (at actual size) the PDF for the Overhang Adjustment Guide available on our website.

When the turntable is moved

Using the product's original packaging materials, pack the turntable in the reverse order of unpacking it. If you do not have the original packaging materials, take the following measures:

- After unplugging the AC adapter from the outlet, remove the platter, and then wrap it so it does not get damaged. If the product is moved while the platter is still seated, it may damage the spindle.
- Remove the AC adapter, RCA audio cable, and ground line.
- Make sure the tonearm lift control lever is lowered.
- Use the tonearm rest clamp to secure the tonearm so that it does not move.
- Remove the counterweight.
- Remove the headshell from the tonearm with the cartridge's protector attached, and then wrap the entire headshell assembly so that it does not get damaged.
- Wrap the turntable body with paper or a soft cloth so that it does not get damaged.

Troubleshooting

① The platter does not spin

- Is the AC adapter connected to the outlet? Connect AC adapter to the outlet.
- Has the drive belt slipped from the platter? Correctly place the drive belt on the platter.
- Is the drive belt placed on the motor pulley? Check that the drive belt is placed on the motor pulley correctly.
- Has the drive belt been damaged? Replace it with a new drive belt.

① The platter spins, but there is no sound or the volume is not loud enough

- Is the cartridge's protector still attached to the cartridge? Remove the cartridge's protector.
- Is the tonearm lifted? Lower the tonearm.
- Are the function settings and input for connected equipment (amplifier, etc.) selected correctly? Check whether the settings for the connected equipment are correct.
- Is the stylus damaged? Check the stylus and replace it, if necessary.
- Is the cartridge placed correctly on the tonearm? Check the cartridge and adjust it, if necessary.
- Is the tracking force set too heavy? Adjust the tracking force.
- Are the setting positions for the pre-amplifier selector switch correct? Make sure the settings are configured correctly for your amplifier inputs.
- If there is no sound, or if the volume is not loud enough, the product may be set to the "PHONO" position and connected to the amplifier's AUX/LINE input.
- If the volume is too loud or is distorted, the product may be set to the "LINE" position and connected to the amplifier's PHONO input.

① The stylus skips

- Is the tracking force set too light or too heavy? Adjust the tracking force.
- Is the anti-skate set improperly? Verify anti-skate is set for same value as cartridge tracking force.
- Is the record warped? Check the record.
- Is the record scratched? Check the record.
- Is the stylus tip dirty? Excessive accumulation of dirt and dust on the stylus affects the record's playback quality.

① There is howling

- Is the product picking up excessive vibrations from the floor, surfaces of the walls, or nearby speakers? Decrease the vibrations or mount the product on a surface that is not subject to the effects of vibrations.

Troubleshooting

- Is the product mounted on an unstable surface? Check whether the surface on which the product is mounted is suitable.

① **There is noise when the record is playing**

- Is there dust on the stylus tip of the cartridge? If dust is stuck to the stylus tip, clean it with a commercially sold brush.

① **The sound when the record is playing is either too fast or too slow**

- Are the speed settings for the product correct? Use the control knob to select the correct speed for the type of record being played.

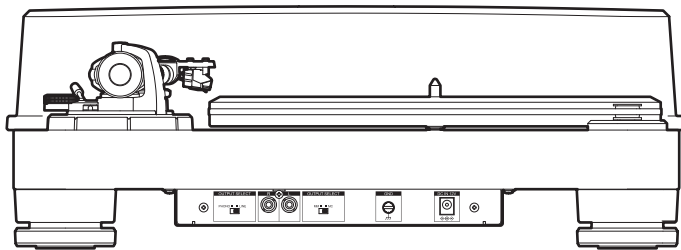
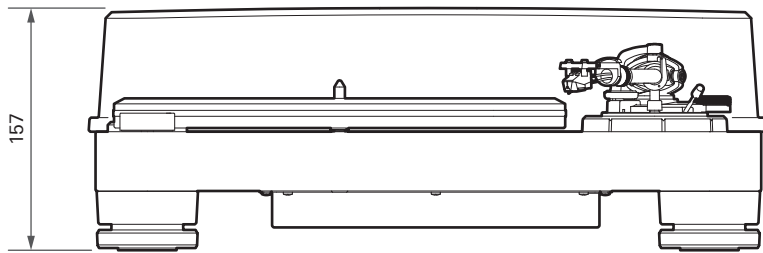
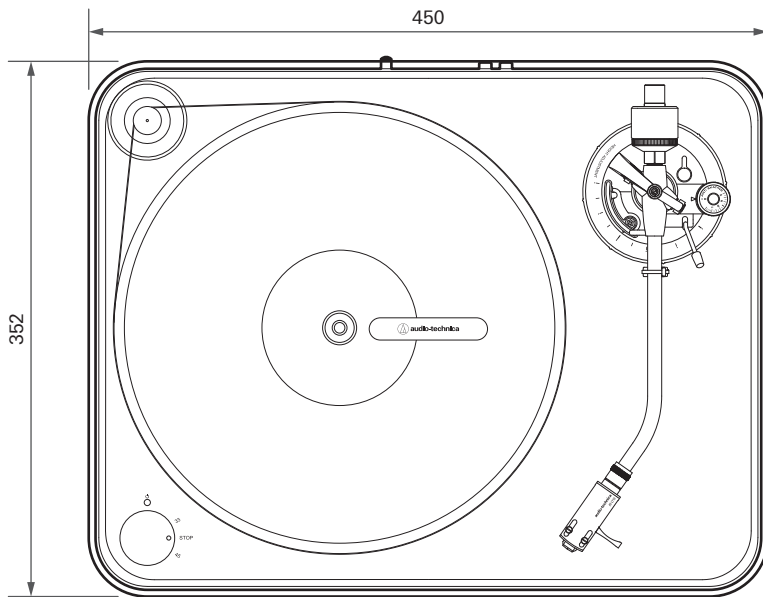
① **Playing speed slows down or there is irregular rotation.**

- Is the drive belt stretched out? Replace it with a new drive belt.

① **Humming noise is heard during playback**

- Is the ground line connected correctly? Make sure the ground line is properly connected.
- If the noise continues, remove the ground line. This may reduce the noise.
- Is the headshell attached to the tonearm firmly? Make sure the locking ring is tight.

Dimensions



(Unit: mm)

Specifications

Turntable specifications

Motor	DC servo motor
Drive method	Belt drive
Speeds	33-1/3 RPM, 45 RPM
Turntable platter	20 mm-thick acrylic platter
Wow and flutter	< 0.1% (WTD) @3 kHz (JIS)
Signal-to-noise ratio	> 60 dB
Output levels	PHONO: 4.0 mV nominal at 1 kHz, 5 cm/sec LINE: 252 mV nominal at 1 kHz, 5 cm/sec
Phono pre-amp gain	MM: 36 dB nominal, RIAA equalized MC: 56 dB nominal, RIAA equalized

Tonearm specifications

Type	Static balanced J-shaped tonearm
Effective length	247 mm (9.7")
Overhang	15 mm (0.59")
Maximum tracking error angle	Less than 2.0°
Tracking force adjustment range	0.0 to 4.0 g (0.0 to 0.14 oz)
Applicable cartridge weight range (including headshell)	14.0 to 19.5 g (without subcounterweight) 17.5 to 23.5 g (with subcounterweight (light)) 22.0 to 28.5 g (with subcounterweight (heavy) ^[1])
Tonearm height adjustment range	-2 mm to +4 mm (when using included cartridge and headshell)

[1] The subcounterweight (heavy) is sold separately.

Cartridge and headshell specifications

Cartridge model	AT-VM95E BK
Cartridge type	VM
Recommended load impedance	47,000 ohms
Output voltage	4.0 mV (mV at 1 kHz, 5 cm/sec)
Stylus	0.3 × 0.7 mil bonded elliptical stylus
Cantilever	Aluminum pipe
Tracking force range	1.8 to 2.2 g (standard 2.0 g)
Cartridge weight	6.1 g (0.22 oz)
Headshell model	AT-LT10
Headshell weight	Approx. 10.7 g (0.38 oz) (including lead wires) Approx. 10.0 g (0.35 oz) (excluding lead wires)
Headshell overhang adjustment	-5.5 mm to +2.5 mm (when using AT-VM95E)

AC adapter

Rated input voltage	100 to 240 V AC
Rated input current	0.6 A max
Rated frequency	50 Hz / 60 Hz
Rated output voltage	12 V DC
Rated secondary current	0.5 A
Cable length	Approx. 1.3 m (4.3')

- The included AC adapter may differ depending on the country of sale. Check the rating label on the AC adapter. For details, contact your local Audio-Technica dealer.

Specifications

General specifications

Dimensions	450 mm (18") × 352 mm (14") × 157 mm (6.2") (W × D × H)
Weight	Approx. 7.6 kg (17 lbs)
Power consumption	5.5 W
Operating temperature	5°C to 35°C (41°F to 95°F)
Accessories	Dust cover, Platter, Drive belt, Counterweight, Subcounterweight (light), Headshell (AT-LT10) with VM stereo cartridge (AT-VM95E BK), 45 RPM adapter, RCA audio cable (Approx. 1.4 m (4.6')), AC adapter (Approx. 1.3 m (4.3')), Gloves
Replacement stylus (sold separately)	AT-VMN95E BK
Replacement headshell (sold separately)	AT-LT10
Replacement belt (sold separately)	AT-LP7X exclusive belt
Sold separately	Subcounterweight (heavy)

- For product improvement, the product is subject to modification without notice.

株式会社オーディオテクニカ

〒194-8666 東京都町田市西成瀬2-46-1
www.audio-technica.co.jp

Audio-Technica Corporation

2-46-1 Nishi-naruse, Machida, Tokyo 194-8666, Japan
www.audio-technica.com
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Global Support Contact: www.at-globalsupport.com