



# AT-FTT

Belt-Drive Record Player

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## 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 plug of the power cable 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

- Keep away from magnetic objects, which may cause the product's built-in magnets to malfunction.
- Do not use the product within 15 cm (5.9") of pacemakers, which may be affected by the product's built-in magnets.
- Do not use the product near medical equipment. The built-in magnets may affect pacemakers and other electronic medical equipment. Do not use the product inside medical facilities.
- Do not use the product near automatic control devices such as automatic doors and fire alarms. The built-in magnets may affect electronic equipment and cause accidents due to malfunction.
- 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 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.
- Do not use alcohol, paint thinners, or other solvents for cleaning purpose.

## For customers in the USA

## Safety precautions

### 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.

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

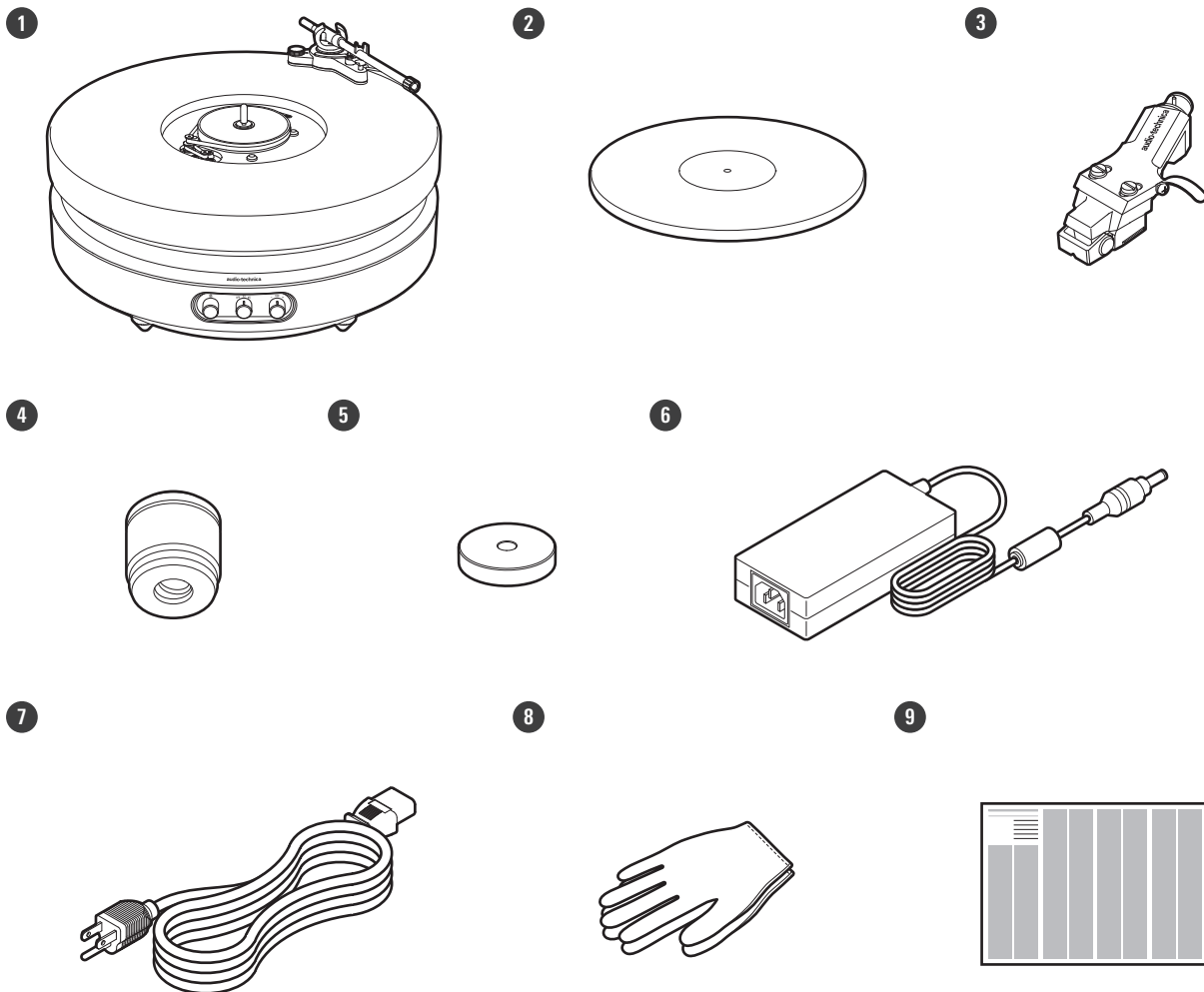
- Do not set and use the product in locations that are considerably hot or humid, dirty, or subject to extreme vibrations.
- The product should be positioned on a flat, level surface.
- The product contains a magnet. Do not bring a magnetic card, smartphone, or other metal object close to the product. Doing so can cause the product to malfunction.
- Parts of the product contain acrylic materials. Do not use alcohol, detergents, or chemicals when cleaning. Doing so may result in cracking, discoloration, decomposition, or deterioration. Moisten a cloth with water and wring it out firmly, then wipe off any dirt and dust on the body.

## Cartridge

- The stylus is extremely delicate. Handle with care.
- Raise the protector to protect the stylus 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 raise the protector to protect the stylus 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

At the time of purchase, the drive belts (long and short) are already attached to the turntable body.

## 2 Platter

## 3 Headshell with cartridge

## 4 Counterweight

## 5 45 RPM adapter

## 6 AC adapter (approx. 1.1 m (3.6'))

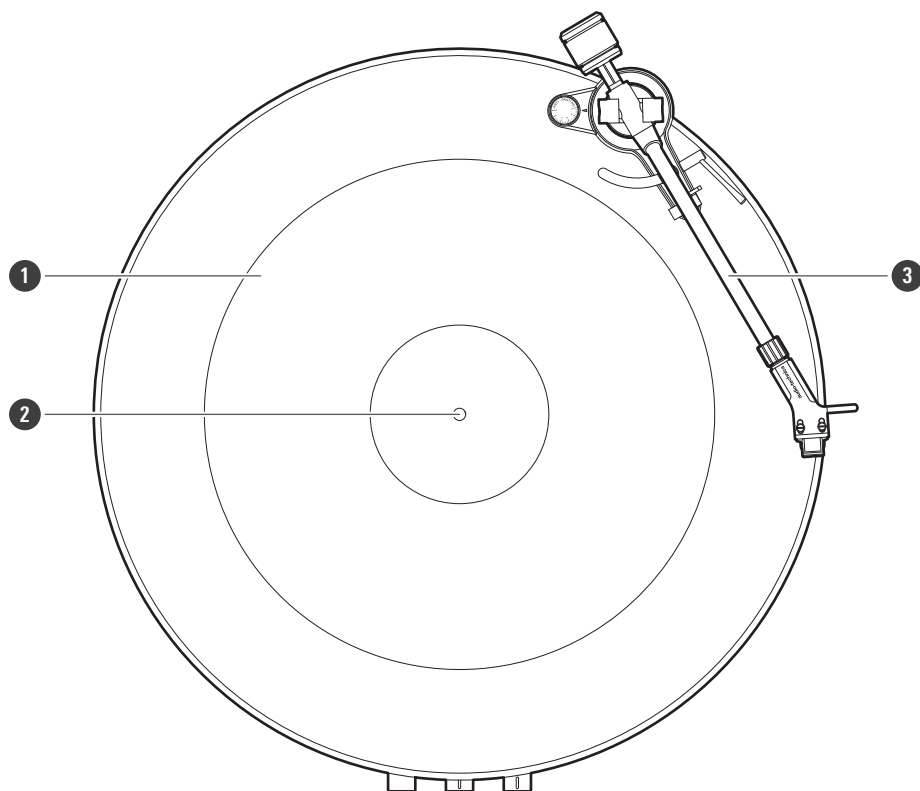
## 7 Power cable

## 8 Gloves

## 9 Caution Guide

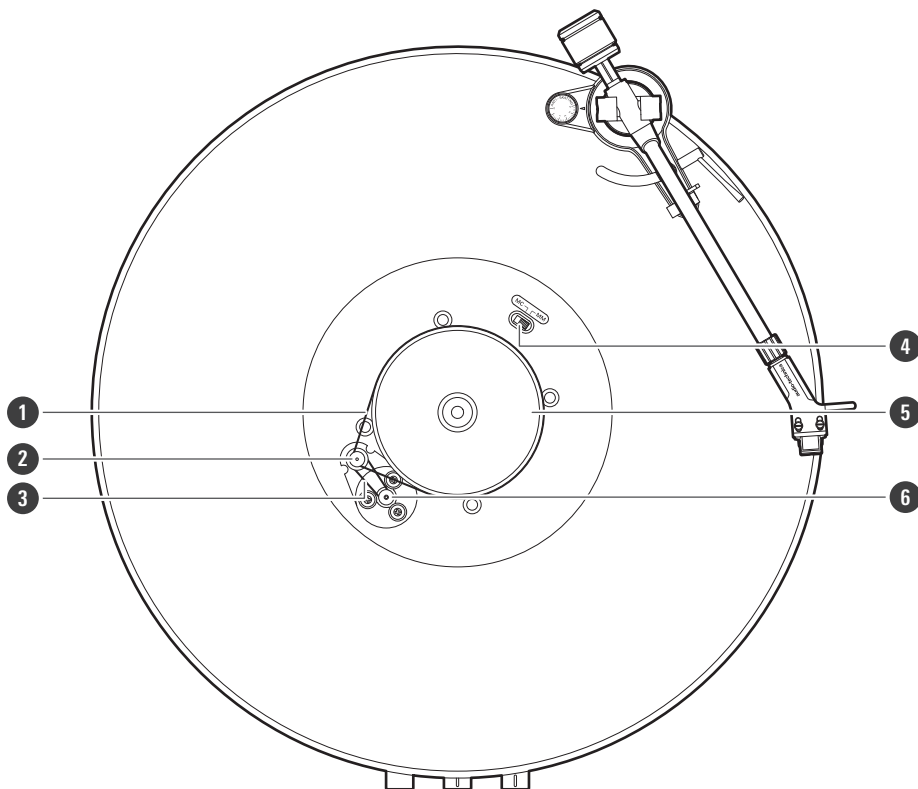
# Part names and functions

## Top view



- 1 Platter
- 2 Spindle
- 3 Tonearm

### Top (when platter is removed)

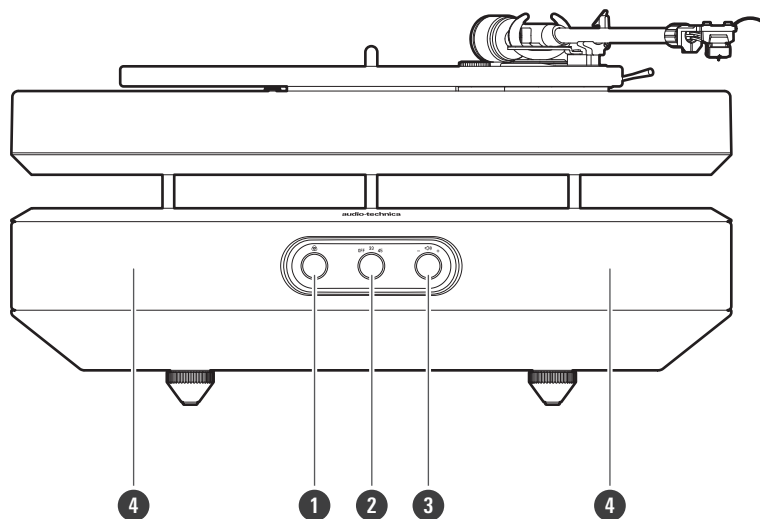


- ① Drive belt (long)
- ② Motor pulley (brass-colored)
- ③ Drive belt (short)
- ④ MM (VM)/MC cartridge selector switch
- ⑤ Sub-platter
- ⑥ Motor pulley (silver-colored)

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



### Front view



**1 Lighting system knob**

Use to set the lighting system that illuminates the LED on the turntable body (inside/outside).

**2 Control knob**

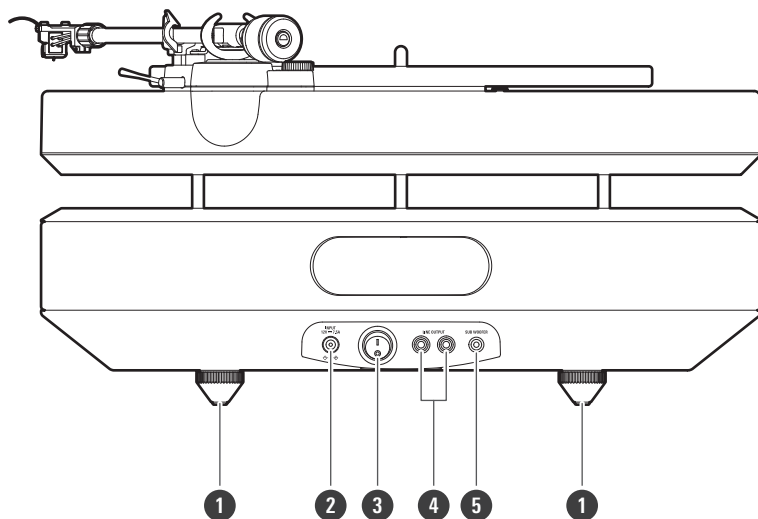
Use to select the platter speed (33-1/3 or 45 RPM) or start/stop the platter.

**3 Volume knob**

Use to adjust the volume of the internal speaker. This knob cannot adjust the volume of external speakers that are connected to the stereo output jack. Adjust the volume on the connected external speaker side.

**4 Speaker unit**

### Rear view



**1 Foot**

Adjust the level of the product.

**2 Power input jack**

Connect the AC adapter.

**3 Power switch**

Turns power on and off.

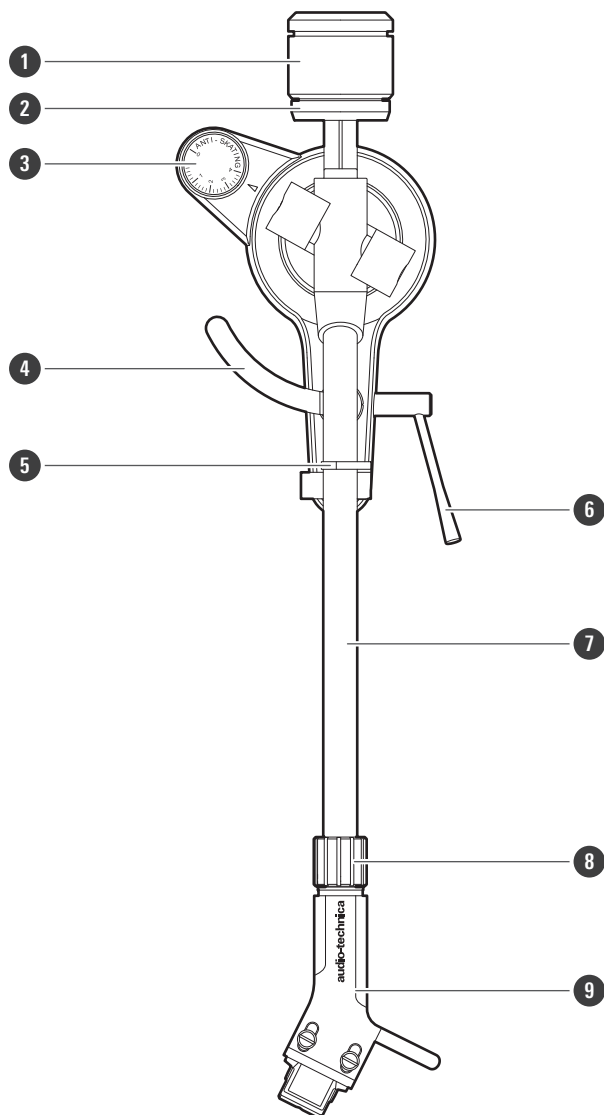
**4 Stereo output terminal**

Connect the RCA audio cable. Connect to the LINE input jack on the pre-amp or pre-main amp. The red terminal is the right channel and the white terminal is the left channel.

**5 Subwoofer output terminal**

Connect when using a subwoofer.

### Tonearm



**1 Counterweight**

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

**2 Tracking force gauge ring**

Use to adjust the tracking force.

**3 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.

**4 Tonearm lift**

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

**5 Tonearm rest with clamp**

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

## Part names and functions

### **6 Tonearm lift control lever**

Operates the tonearm lift.

### **7 Tonearm**

### **8 Locking ring**

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

### **9 Headshell and cartridge**

The cartridge is attached to the headshell.

# Preparation for use

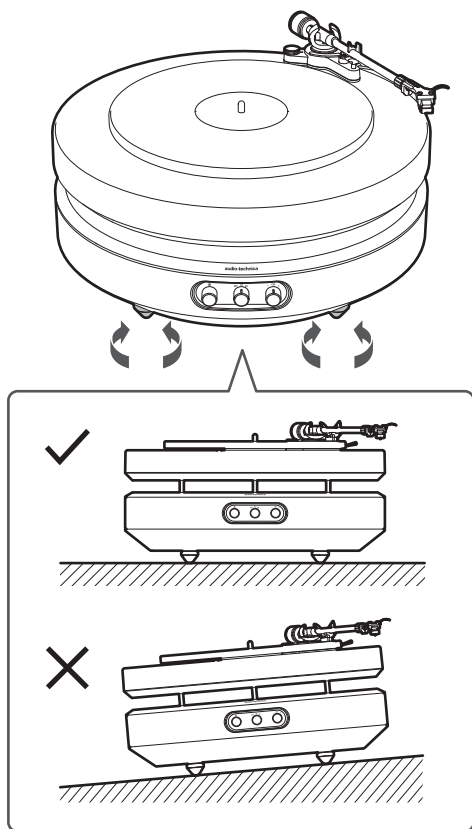
## Setting up the turntable

- Position the product on a level surface.
- When installing the product, lift up from the bottom of the product and install. Lifting only the top part may cause the product to malfunction.
- 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.
- If the AC adapter is placed close to the tonearm or cartridge, noise may occur. Therefore, try to keep the product away from radios.
- Use the included gloves to avoid fingerprints on the product.

### Leveling the turntable

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

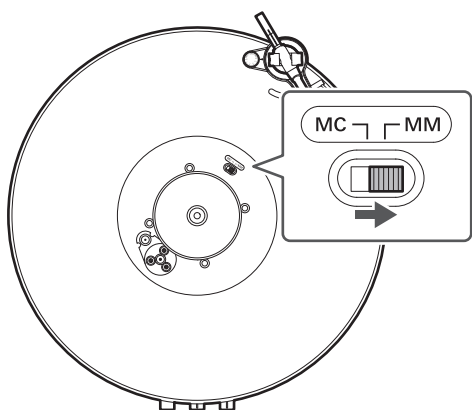
- Use a level (sold separately) as needed to ensure that the product is level.



### Setting MM (VM)/MC Cartridge Selector Switch

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

- This switch is set to the MM position at the time of purchase. Because the provided cartridge (AT-VM740xML) is a VM stereo cartridge, use with the switch on the MM side.
- Turn off the power switch before changing the switch.



### Placing the platter

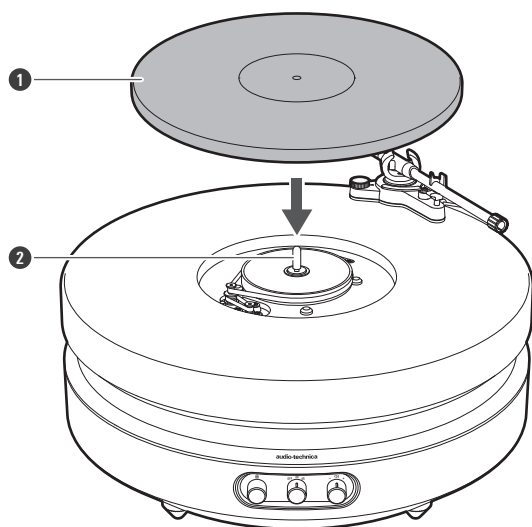
- This product requires some assembly before using it for the first time.
- At the time of purchase, the drive belts (long and short) are already attached to the turntable body. Before installing the platter, check that the drive belts (long and short) are attached. If a drive belt (long or short) is detached, refer to "Replacing the belt" (p. 31).

#### **1** Remove the protective sheet from the platter.

#### **2** Set the platter on the spindle.

- Do not mistake the front and back of the platter. The side of the platter with a broad depression in the center is the front.
- 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.

## Preparation for use



- ① Platter
- ② Spindle

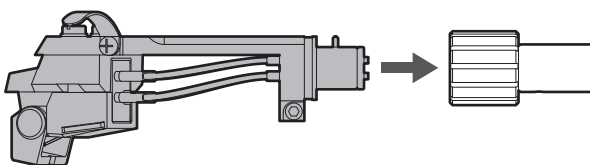
## Assembling the tonearm

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

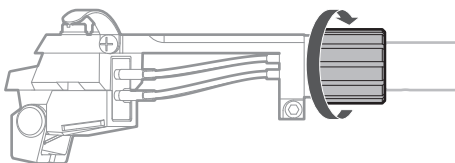
- Use the clamp to temporarily secure the tonearm to the tonearm rest.

### 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.

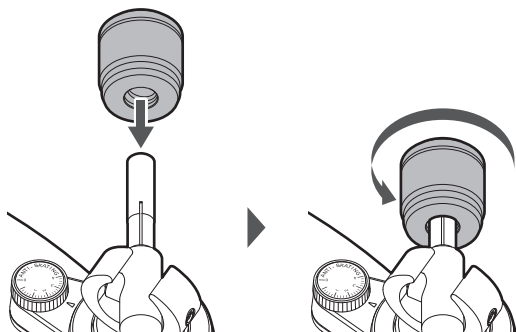


### 3 With the headshell inserted, turn the locking ring counterclockwise (to the left).



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

## Preparation for use



## Tonearm balance and tracking force

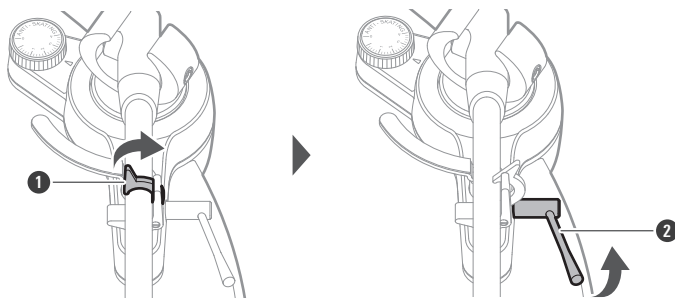
In order for the cartridge to pick up sound correctly from the record's grooves, the tonearm's balance and tracking force must be adjusted to fit the specifications of the cartridge. If the tonearm's balance and tracking force are not properly adjusted, the record or the cartridge's stylus may become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

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



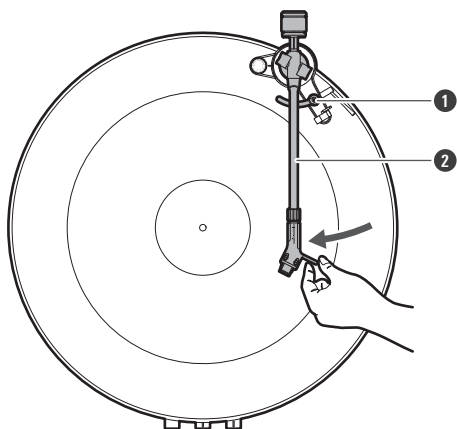
- ① Clamp
- ② Tonearm lift control lever

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

- Raise the protector and protect the stylus so that the stylus tip does not contact the platter.

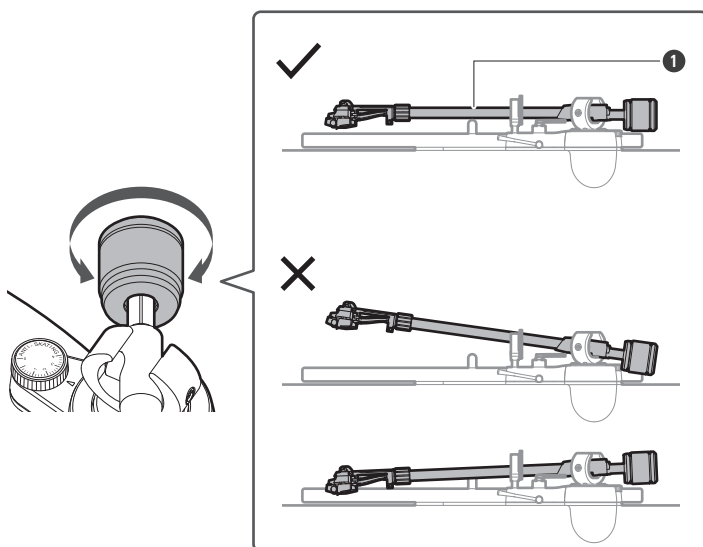


## Preparation for use



### 3 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.



### 4 Return the tonearm to the tonearm rest.

## 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.

## Preparation for use

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



① 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 (0.071 oz).

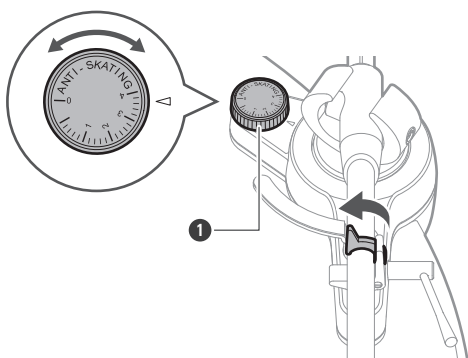


## Setting the anti-skate adjustment

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.

- The tracking force value for the cartridge provided with this product is 2.0 g (0.071 oz).

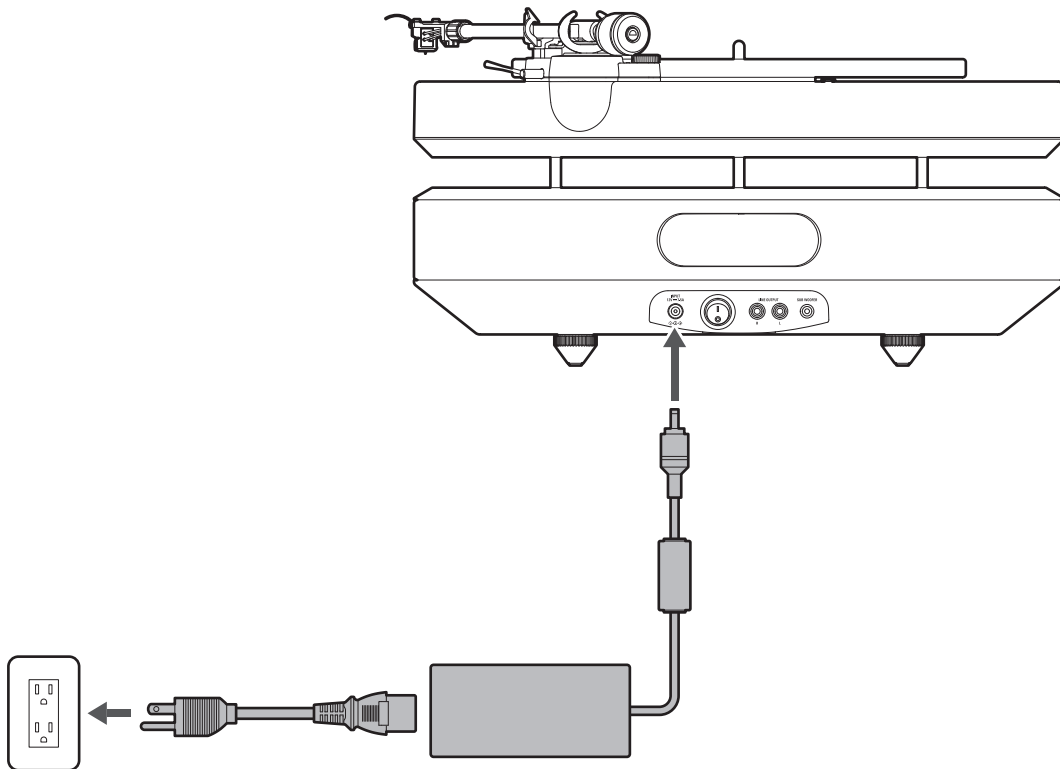


① Anti-skate control dial

# Using the product

## Using the internal speakers

- This product contains internal speakers, allowing you to listen to records using the product alone without connecting speakers.

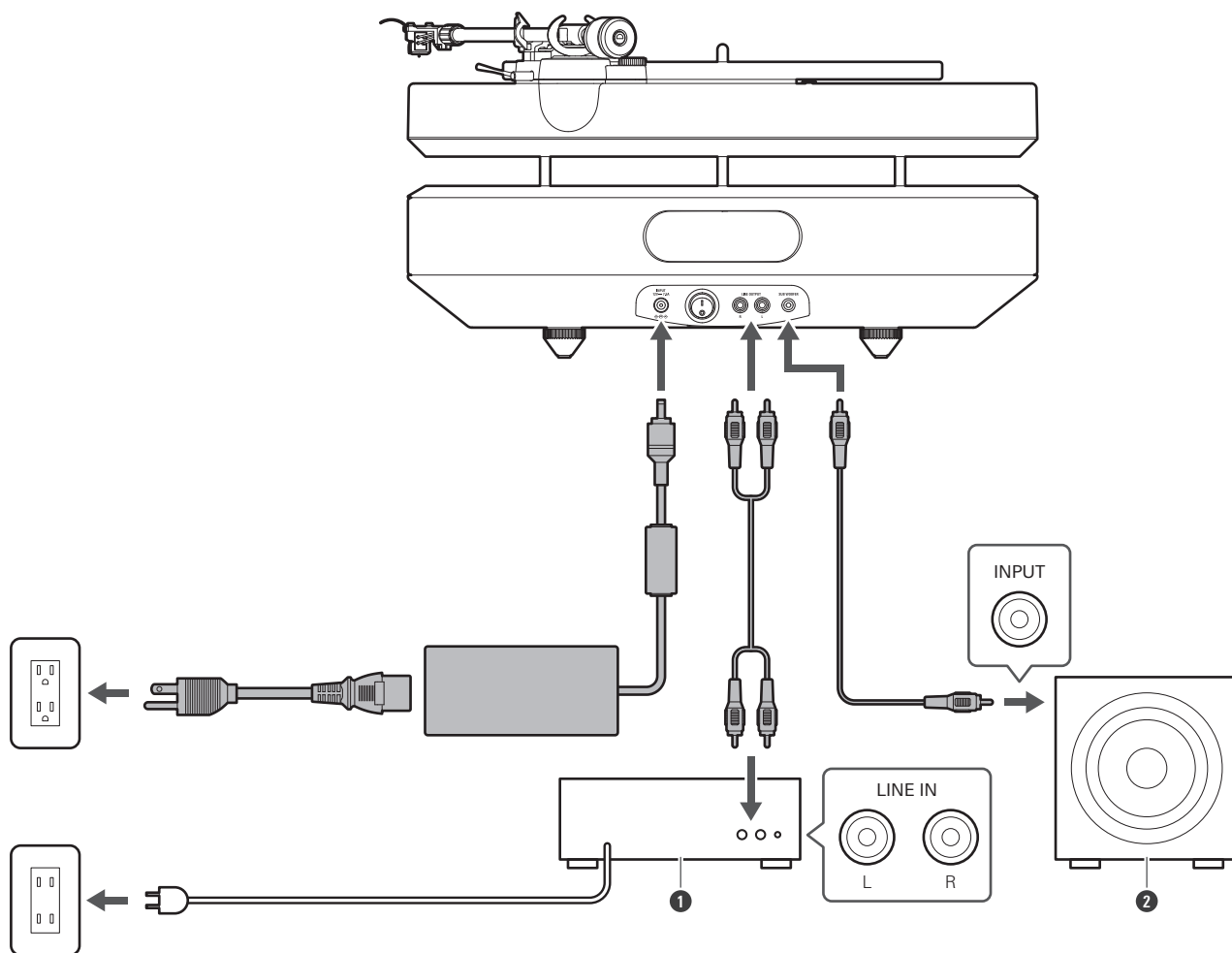


## Using your own speakers

### Connecting to a pre-amp or pre-main amp

- This product has a built-in phono equalizer function. When you want to listen from your own speakers, connect the RCA audio cable to the LINE input jacks on the pre-amp or pre-main amp.
- A subwoofer can also be used. A powered subwoofer with a 250 Hz or lower low-pass filter is recommended.
- An RCA audio cable is not provided. Use a commercially sold RCA audio cable. 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



① Pre-amp or pre-main amp

② Subwoofer



- If you want to also use a subwoofer while outputting sound from external speakers using the device connected to the stereo output terminals on the product, do not use the subwoofer output terminal on the product; connect the subwoofer to the LINE output on the pre-amp or pre-main amp that is connected to the stereo output terminals. The subwoofer volume can be adjusted linked with the volume adjustment of the pre-amp or pre-main amp.



- When sound is output from external speakers using the device connected to the product's stereo output terminals, turn the volume on the product to the lowest level. Failure to do so may result in a deviation in the phase or output timing between the output from the connected device and the output from the product, preventing good sound quality from being achieved.

### Before playing a record

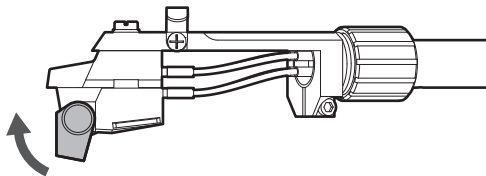
**1** Connect the power cable and AC adapter.

**2** Plug the AC adapter into the power input jack, and plug the power cable into an outlet.

- Make sure that the power switch is off. If the power switch remains on while the power cable is connected, a standby current is always running through the product, even when it is not being used.

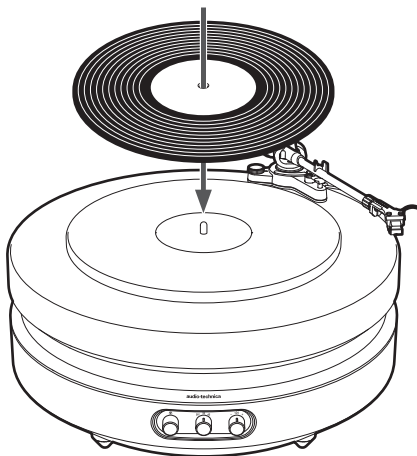
**3** Lower the cartridge's protector.

- If the tonearm is fixed to the tonearm rest, remove the clamp.



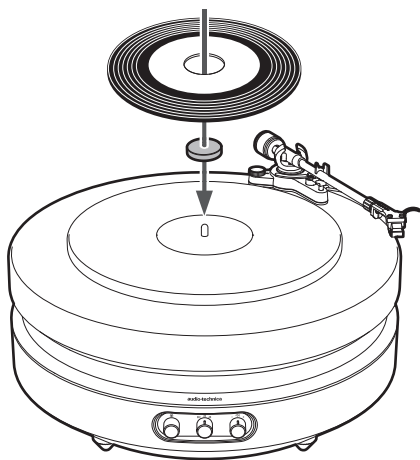
**4** Place the record on the platter so that the center hole aligns with the spindle.

At 33-1/3 RPM



At 45 RPM

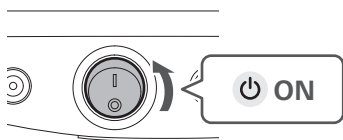
To play a 45 RPM record, attach the 45 RPM adapter.



## Playing a record

Turn the volume knob and sufficiently lower the volume.

### 1 Turn on the power switch.

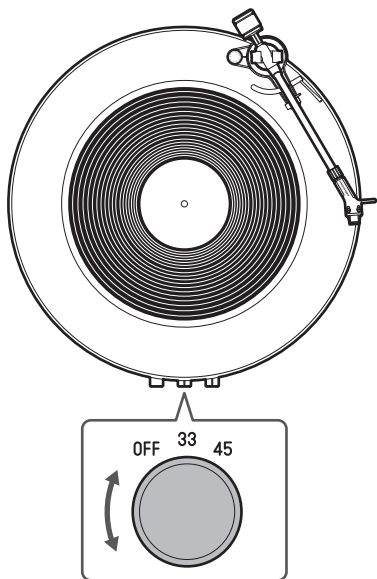


» The LED on the turntable body illuminate according to the lighting system mode.

### 2 Use the control knob to select the speed.

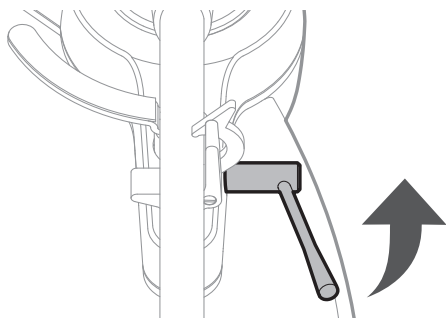
- Select "33" to play 33-1/3-RPM records or "45" to play 45-RPM records.

## Using the product

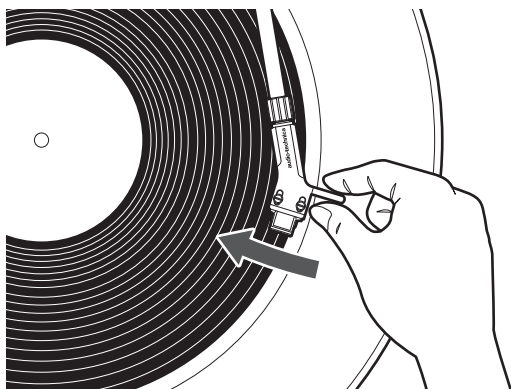


» The platter begins spinning.

- 3** Raise the tonearm by lifting the tonearm lift control lever to the UP position.



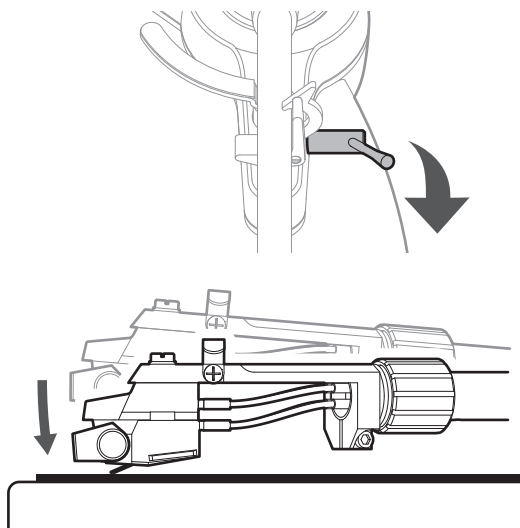
- 4** Position the tonearm over the desired location (groove) on the record.



## Using the product

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

- Alternatively, you can skip steps 3 to 5, 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.

### 6 Turn the volume knob and adjust the volume.



- The subwoofer is linked to volume adjustment using the product's volume knob, however external speakers are not so linked.



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

## Pausing the record

### 1 Turn the volume knob and sufficiently lower the volume.

### 2 Raise the tonearm lift control lever to lift the tonearm.

## Stopping the record

### 1 Turn the volume knob and sufficiently lower the volume.

### 2 Lift the tonearm lift control lever.



## Using the product

**3** Return the tonearm to its original position and fix it with the clamp.

**4** Turn the control knob to "OFF."

» The platter slows down and rotation stops.

**5** Raise the cartridge protector to protect the stylus.

**6** Remove the record after the platter has come to a complete stop.



- When the product power is left on, the platter is not rotated for 30 minutes or more, and the lighting system remains off, the product enters a standby state (low power consumption state). Standby state is canceled when a speed is selected with the control knob, or when basic mode is selected by pressing and holding (approx. 1 second) the lighting system knob. When standby state is canceled, the LED on the turntable body illuminate white once and then quickly turn off.



- 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 disk stabilizer.
- 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.

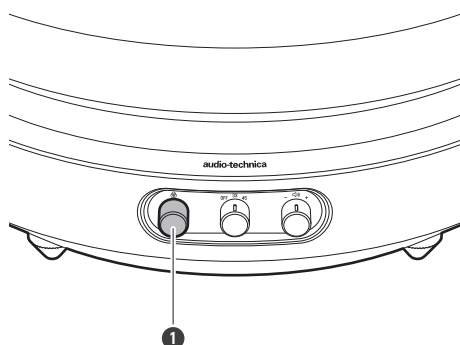
## Lighting system

This product includes a lighting system that illuminates the LED on the turntable body. The lighting system has three modes.

| Mode           | Description                                                                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic mode     | The LED on the turntable body illuminate in the set colors. There are 20 color patterns.                                                        |
| Gradation mode | The LED on the turntable body illuminate in a variety of changing colors. There are 5 color patterns.                                           |
| Link mode      | The LED on the turntable body illuminate while changing in brightness, synced with the music that is being played. There are 20 color patterns. |

## Using the product

- 1 Press and hold the lighting system knob (approx. 1 second) to change the lighting system mode.**



1 Lighting system knob

» Each time the knob is operated, the mode changes in the following sequence: Basic mode (default) -> Gradation mode -> Link mode -> Lighting system off.

- 2 Turn the lighting system knob to change the color pattern in each mode.**

» The color pattern changes each time the knob is operated.

- 3 Short-press the lighting system knob to change the brightness.**

» Each time the knob is pressed, the brightness changes in the following sequence: High (default) -> Low -> Medium.



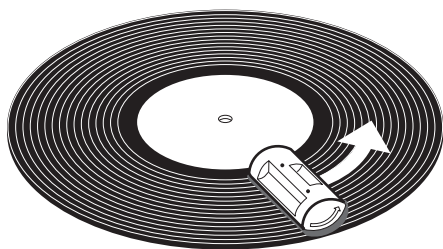
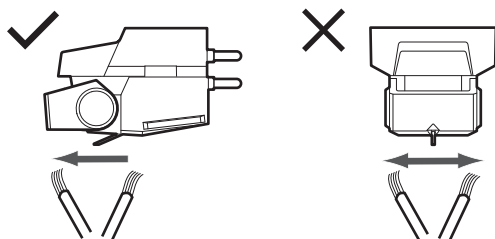
- When the power switch is turned on or the lighting system mode is changed, the LED on the turntable body illuminate as follows according to the mode.  
Basic mode: Illuminate in the set color pattern.  
Gradation mode: Illuminate in the set color pattern while changing rapidly.  
Link mode: Illuminate in the set color pattern with the LED illuminating in sequence from the outside of the turntable body to the inside.
- When the lighting system is off, the LED on the turntable body illuminate white and then turn off when the power switch is turned on.

## Turntable body

- When the turntable body is dirty or dusty, first turn off the power switch, disconnect the power cable, and then wipe off the dirt and dust with a soft, dry cloth.
- Parts of the turntable body contain acrylic materials. Do not use alcohol, detergents, or chemicals when cleaning. Doing so may result in cracking, discoloration, decomposition, or deterioration. Moisten a cloth with water and wring it out firmly, then wipe off any dirt and dust on the body.
- 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, first turn off the power switch, disconnect the power cable from the outlet, and then 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. During cleaning, be sure to first turn off the power switch, and then disconnect the product's power cable 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

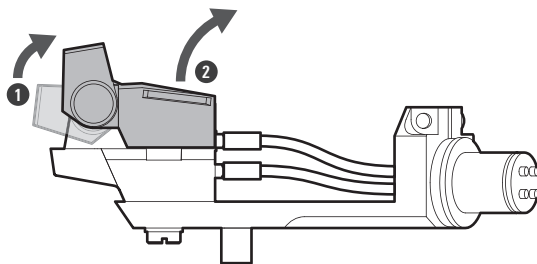
## Removing the replacement stylus

- 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 first turn off the power switch, and then disconnect the product's power cable 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 Remove the replacement stylus by pulling it in the direction of the arrow without touching the cantilever, stylus tip, or magnet.



- ① Raise
- ② Pull

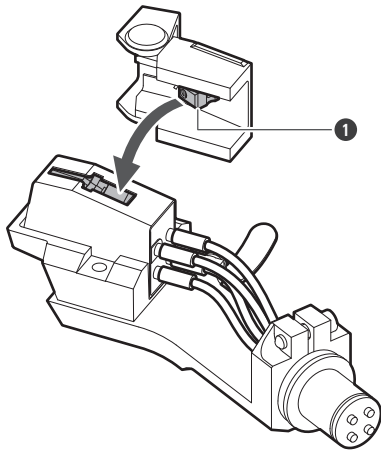


- Do not touch the cantilever, stylus tip, or magnet of the replacement stylus.

## Installing a new replacement stylus

### 1 Mount the new replacement stylus to the cartridge.

## Replacing the stylus



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 cartridge that you will be using if you are replacing the cartridge with a commercially available one.
- The audio output may be distorted after replacing the cartridge with a large playback output cartridge (such as a DJ cartridge).
- 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.

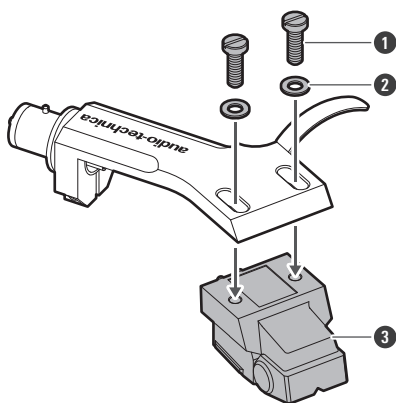
## 2 Remove the replacement stylus from the cartridge.

## 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. 33).
- After the adjustments are complete, tighten the screws securely.

## 7 Attach the headshell to the tonearm.

### **8** Adjust the tonearm balance and tracking force.

- Refer to "Setting tonearm balance" (p. 15) and "Setting tracking force" (p. 16) to adjust them.

# Replacing the belt

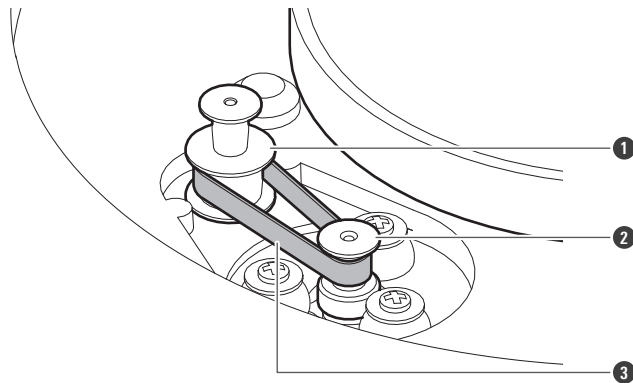
- The belt is a consumable part. Replace the belt if the speed of playback slows down or irregular rotation occurs. As a rule of thumb, we suggest replacing the belt once a year.
- Before replacing the belt, be sure to first turn off the power switch, and then disconnect the product's power cable from the outlet.

## 1 Remove the platter.

## 2 Remove the old drive belts (long and short).

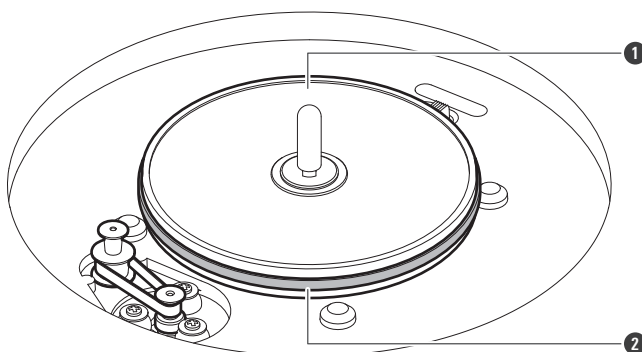
## 3 Attach the drive belt (short) to the bottom side of the motor pulley (silver-colored) and motor pulley (brass-colored).

- Make sure that the belt does not get twisted.



- 1 Motor pulley (brass-colored)
- 2 Motor pulley (silver-colored)
- 3 Drive belt (short)

## 4 Attach the drive belt (long) onto the side of the sub-platter.



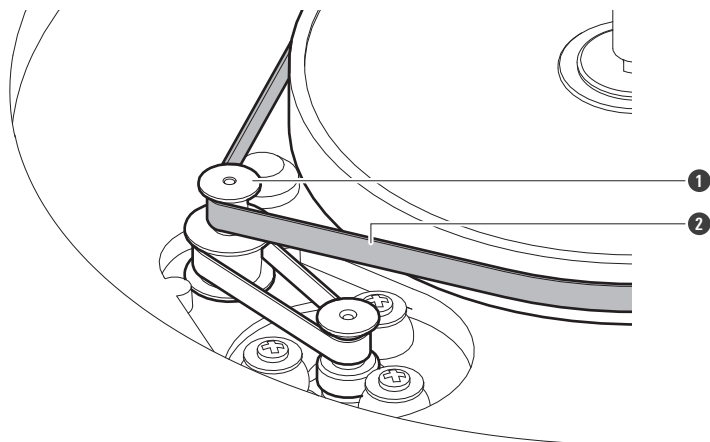
- 1 Sub-platter
- 2 Drive belt (long)

## 5 Attach the drive belt (long) to the top side of the motor pulley (brass-colored).

- Make sure that the belt does not get twisted.



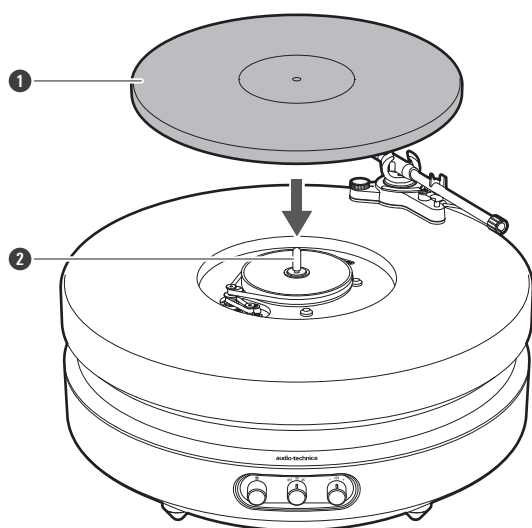
## Replacing the belt



- ❶ Motor pulley (brass-colored)
- ❷ Drive belt (long)

### 6 Set the platter on the spindle.

- Do not mistake the front and back of the platter. The side of the platter with a broad depression in the center is the front.
- 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.



- ❶ Platter
- ❷ Spindle

# 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 turning off the power switch, disconnect the power cable from the outlet, remove the platter, and then wrap the turntable body so that it does not get damaged. If the product is moved while the platter is still seated, it may damage the spindle.
- Disconnect the power cable and AC adapter.
- 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.
- With the cartridge protector raised to protect the stylus, remove the headshell from the tonearm 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

## **The platter does not spin**

- Is the power cable connected to the outlet? Connect the power cable to the outlet.
- Is the drive belt (long or short) detached? Correctly attach the drive belts (long and short).
- Is the drive belt (long or short) severed? Replace the drive belt (long or short) with a new drive belt.

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

- Is the cartridge's protector raised to protect the stylus? Lower 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 replacement stylus placed correctly on the tonearm? Check the replacement stylus and adjust it, if necessary.
- Is the tracking force set too heavy? Adjust the tracking force.

## **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 dirty? Excessive accumulation of dirt and dust on the stylus affects the record's playback quality.
- Is the product mounted on an unstable surface or surface which is not flat? Due to the product characteristics, if it is mounted on an unstable surface or a surface which is not flat, stylus skipping may occur. Check whether the surface on which the product is mounted is suitable.

## **There is howling**

- Is the product picking up excessive vibrations from the floor or the walls? Decrease the vibrations or mount the product on a surface that is not subject to the effects of vibrations.
- Is the product mounted on an unstable surface? Check whether the surface on which the product is mounted is suitable.

### **② 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.

### **② 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.

### **② Playing speed slows down or there is irregular rotation.**

- Is the drive belt (long or short) stretched out? Replace the drive belt (long or short) with a new drive belt.

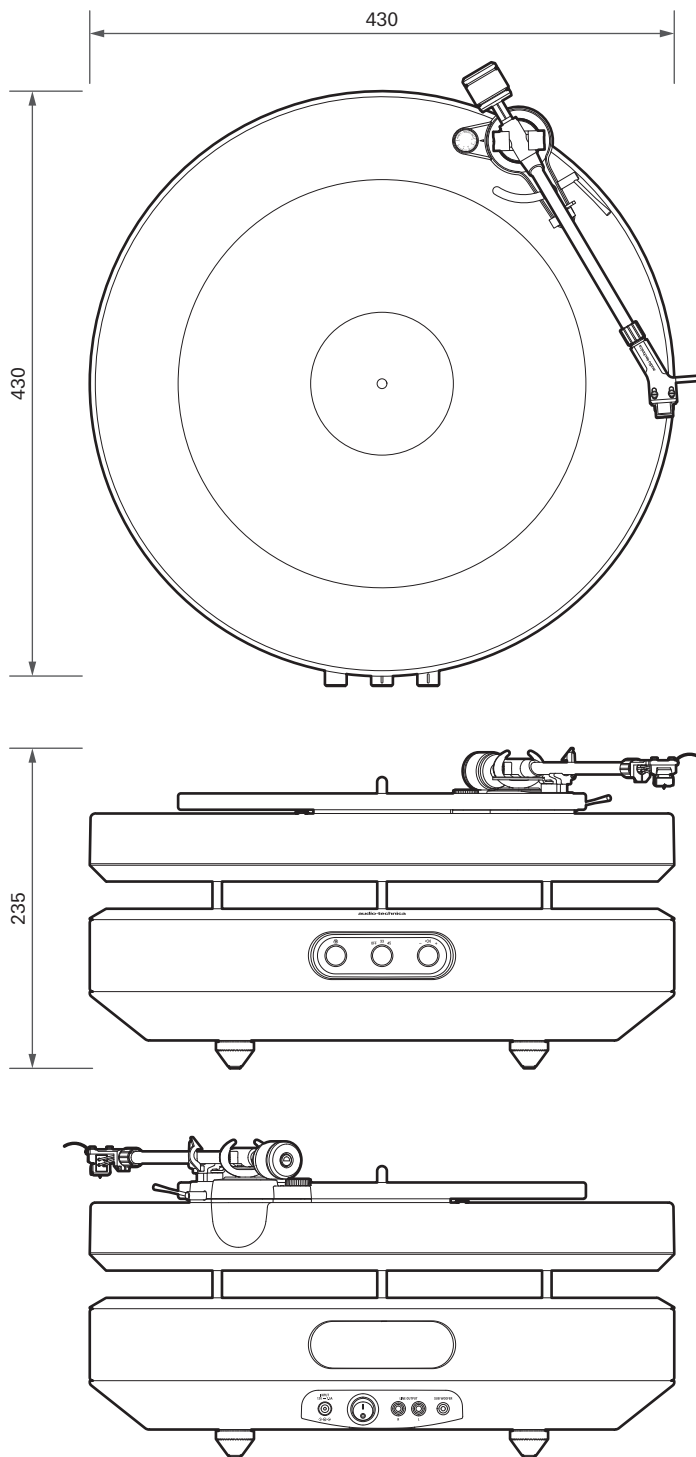
### **② Humming noise is heard during playback**

- Is the headshell attached to the tonearm firmly? Make sure the locking ring is tight.

### **② The LED on the turntable body are flashing red**

- The protection function activated and stopped the motor when rotation of the platter was stopped for some reason. Turn the control knob off and then select the speed again.

# Dimensions



(Unit: mm)

# Specifications

## Turntable specifications

|                              |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| <b>Motor</b>                 | DC servo motor                                                        |
| <b>Drive method</b>          | Belt drive                                                            |
| <b>Speeds</b>                | 33-1/3 RPM, 45 RPM                                                    |
| <b>Turntable platter</b>     | Acrylic platter                                                       |
| <b>Wow and flutter</b>       | < 0.15%                                                               |
| <b>Signal-to-noise ratio</b> | > 60 dB                                                               |
| <b>Output levels</b>         | LINE: 200 mV (at 1 kHz, 5 cm/sec)                                     |
| <b>Output terminals</b>      | LINE output (RCA pin jack × 2)<br>Subwoofer output (RCA pin jack × 1) |
| <b>Phono pre-amp gain</b>    | MM: 36 dB<br>MC: 56 dB                                                |

## Tonearm specifications

|                                                                |                                         |
|----------------------------------------------------------------|-----------------------------------------|
| <b>Type</b>                                                    | Static balanced straight carbon tonearm |
| <b>Effective length</b>                                        | 227.7 mm (9.0")                         |
| <b>Overhang</b>                                                | 17.9 mm (0.70")                         |
| <b>Maximum tracking error angle</b>                            | Less than 1.9°                          |
| <b>Tracking force adjustment range</b>                         | 0 to 4.0 g                              |
| <b>Applicable cartridge weight range (excluding headshell)</b> | 4.5 to 10.0 g                           |

## Cartridge and headshell specifications

|                                      |                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Cartridge model</b>               | AT-VM740xML (special specifications with limited-edition black color)                              |
| <b>Cartridge type</b>                | VM                                                                                                 |
| <b>Recommended load impedance</b>    | 47,000 ohms                                                                                        |
| <b>Output voltage</b>                | 3.2 mV (1 kHz, 5 cm/sec)                                                                           |
| <b>Stylus</b>                        | 2.2 × 0.12 mil Nude Microlinear                                                                    |
| <b>Cantilever</b>                    | Aluminum tapered pipe                                                                              |
| <b>Tracking force range</b>          | 1.8 to 2.2 g (standard 2.0 g)                                                                      |
| <b>Cartridge weight</b>              | 8.8 g (0.31 oz)                                                                                    |
| <b>Headshell weight</b>              | Approx. 10.7 g (0.38 oz) (including lead wires)<br>Approx. 10.0 g (0.35 oz) (excluding lead wires) |
| <b>Headshell overhang adjustment</b> | +1.7 to -3.3 mm (when using AT-VM740xML)                                                           |

### Speaker specifications

|                           |                    |
|---------------------------|--------------------|
| <b>Speaker unit</b>       | 63.5 mm (2.5") × 2 |
| <b>Tweeter unit</b>       | 31 mm (1.2") × 2   |
| <b>Frequency response</b> | 80 to 20,000 Hz    |
| <b>Sensitivity</b>        | 82 dB (1 W, 1 m)   |
| <b>Maximum output</b>     | 50 W (25 W + 25 W) |

### General specifications

|                                             |                                                                                                                                                                  |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>                           | 430 mm (17") × 430 mm (17") × 235 mm (9.3") (W × D × H)                                                                                                          |
| <b>Weight</b>                               | Approx. 13.6 kg (30 lbs)                                                                                                                                         |
| <b>Power supply requirements</b>            | 100 to 240 V, 50/60 Hz, 2.5 A Max. (for India: 1.3 A)                                                                                                            |
| <b>AC Adapter</b>                           | 12 V, 7.5 A (for India: 12 V, 6.67 A)                                                                                                                            |
| <b>Power consumption</b>                    | 70 W                                                                                                                                                             |
| <b>Operating temperature</b>                | 5°C to 35°C (41°F to 95°F)                                                                                                                                       |
| <b>Accessories</b>                          | Platter, counterweight, headshell with VM stereo cartridge (AT-VM740xML), 45 RPM adapter, AC adapter (approx. 1.1 m (3.6')), power cable <sup>[1]</sup> , gloves |
| <b>Replacement stylus (sold separately)</b> | AT-VMN40xML BK                                                                                                                                                   |
| <b>Replacement belt (sold separately)</b>   | AT-FTT exclusive belt (long and short)                                                                                                                           |

[1] The power cable length may differ depending on the country of sale.

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



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