

Technics[®]



SL-1500C

Direct Drive Turntable System

Operating Instructions

Music is borderless and timeless, touching people's hearts across cultures and generations. Each day the discovery of a truly emotive experience from an unencountered sound awaits. Let us take you on your journey to rediscover music.

Rediscover Music™ / **Technics**

Delivering the Ultimate Emotive Musical Experience to All

At Technics we understand that the listening experience is not purely about technology but the magical and emotional relationship between people and music. We want people to experience music as it was originally intended and enable them to feel the emotional impact that enthuses and delights them.

Through delivering this experience we want to support the development and enjoyment of the world's many musical cultures. This is our philosophy.

With a combination of our love of music and the vast high-end audio experience of the Technics team, we stand committed to building a brand that provides the ultimate emotive musical experience by music lovers, for music lovers.

Director

Michiko Ogawa

A handwritten signature in black ink that reads "Michiko Ogawa". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

Introduction

Thank you for purchasing this product. Please read these instructions carefully before using this product, and save this manual for future use.

- About descriptions in these operating instructions
 - Pages to be referred to are indicated as “(⇒ 00)”.
 - The illustrations shown may differ from your unit.

Sales and Support Information

Customer Communications Centre

- For customers within the UK: 0333 222 8777
- For customers within Ireland: 01 447 5229
- Monday–Friday 9:00 am – 5:00 pm, (Excluding public holidays).
- For further support on your product, please visit our website: www.technics.com/uk/

Features

Coreless direct drive motor to achieve high precision, stable rotation and high reliability

- Stable rotation is achieved by combining the coreless direct drive motor that reduces minute vibration during rotation with the motor control technology that switches the drive mode depending on the operational status of the motor.
- In addition to providing superior performance, the direct drive motor requires no parts replacement or maintenance.

High-precision bearings for highly sensitive tone arm

- The machine-cut, high-precision bearing used in the tone arm bearing with gimbal suspension allows for high initial response sensitivity and accurate record tracking.

Auto lift-up function to automatically lift up the tone arm

- This unit is equipped with an auto lift-up function to automatically lift up the tone arm as a record finishes playing.

Complete package, including the following, to enjoy playing back records

- Built-in phono-equalizer amplifier compatible with a wide range of devices.
- High-quality MM type cartridge

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Safety precautions

Warning

Unit

- To reduce the risk of fire, electric shock or product damage,
 - Do not expose this unit to rain, moisture, dripping or splashing.
 - Do not place objects filled with liquids, such as vases, on this unit.
 - Use only the recommended accessories.
 - Do not remove covers.
 - Do not repair this unit by yourself. Refer servicing to qualified service personnel.
 - Do not let metal objects fall inside this unit.
 - Do not place heavy items on this unit.

AC mains lead

- To reduce the risk of fire, electric shock or product damage,
 - Ensure that the power supply voltage corresponds to the voltage printed on this unit.
 - Insert the mains plug fully into the socket outlet.
 - Do not pull, bend, or place heavy items on the lead.
 - Do not handle the plug with wet hands.
 - Hold onto the mains plug body when disconnecting the plug.
 - Do not use a damaged mains plug or socket outlet.
- The mains plug is the disconnecting device. Install this unit so that the mains plug can be unplugged from the socket outlet immediately.
- Ensure the earth pin on the mains plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earth connection.

Caution

Unit

- Do not place sources of naked flames, such as lighted candles, on this unit.
- This unit may receive radio interference caused by mobile telephones during use. If such interference occurs, please increase separation between this unit and the mobile telephone.
- This unit is intended for use in moderate and tropical climates.
- Do not put any objects on this unit. This unit becomes hot while it is on.

Placement

- Place this unit on an even surface.
- To reduce the risk of fire, electric shock or product damage,
 - Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
 - Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
 - Do not expose this unit to direct sunlight, high temperatures, high humidity, and excessive vibration.
- Ensure that the placement location is sturdy enough to accommodate the weight of this unit (⇒ 23).
- Do not lift or carry this unit by holding the knobs. Doing so may cause this unit to fall, resulting in personal injury or malfunction of this unit.
- Keep any IC card or magnetic card such as a credit card away from the turntable.
 - Otherwise the IC card or magnetic card may become unusable due to the magnetic effect.



Caution for AC Mains Lead

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 10-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 10-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

Before use

Remove the connector cover.

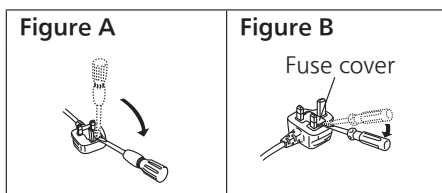
How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B).

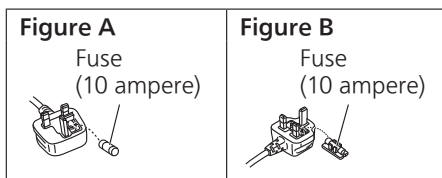
Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



Safety precautions (continued)

Disposal of Old Equipment

Only for European Union and countries with recycling systems



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

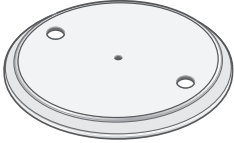
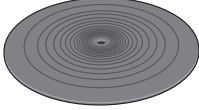
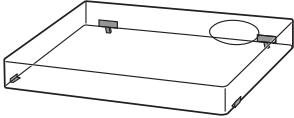



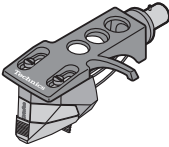
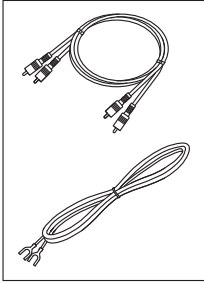
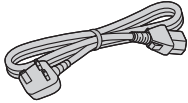
By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Accessories

In order to prevent damage during shipping some of the equipment has been disassembled. Please check and identify the supplied accessories. (Some accessories parts are supplied in a bag.)

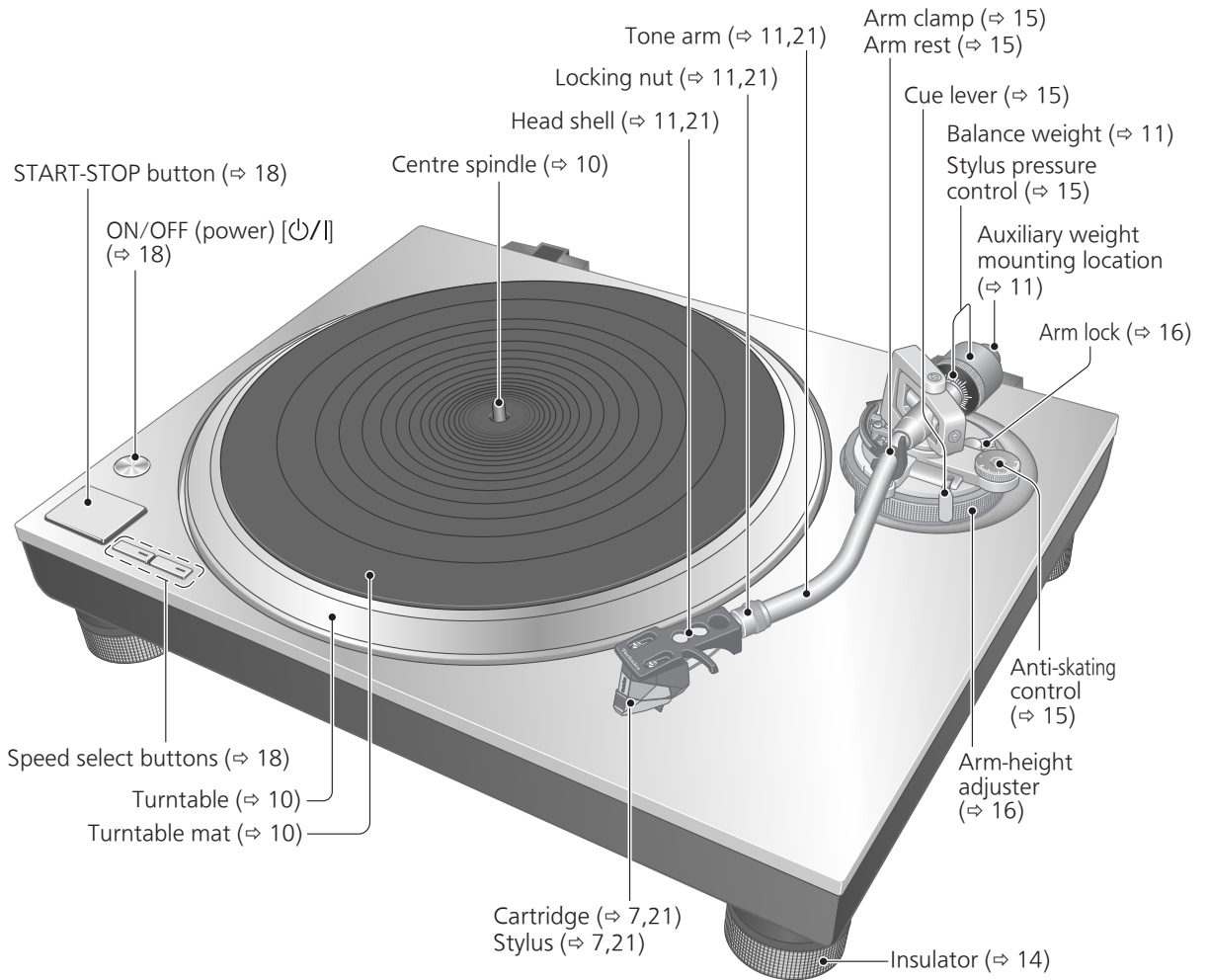
<p>Turntable (1 pc.) SL-1500CEB-S : (TYL0302) SL-1500CEB-K : (TYL0359) SL-1500CEB-W : (TYL0731)</p> 	<p>Turntable mat (1 pc.) (TEFX5019)</p> 	<p>Dust cover (1 pc.) (TTFA0457)</p> 
<p>EP record adaptor (1 pc.) SL-1500CEB-S/-W : (TPH0340) SL-1500CEB-K : (TPH0339)</p> 	<p>Balance weight (1 pc.) SL-1500CEB-S/-W : (TYL0361) SL-1500CEB-K : (TYL0295)</p> 	<p>Auxiliary weight (1 pc.) (TYL0362)</p> 
<p>Head shell with cartridge (1 pc.) (TYL0360)</p>  <p>The head shell comes with a cartridge equivalent to "ortofon 2M Red".</p>	<p>PHONO cable (1pc.) PHONO earth lead (1pc.) (TAQ0036)</p> 	<p>AC mains lead (1 pc.) (K2CT3YY00096)</p> 

- The model numbers of the accessories are as of March 2024. They are subject to change without notice.
- Keep the packaging materials after taking out the goods. You will need them when carrying the product over long distances.
- Follow the local regulations when disposing of the product.
- Do not use any other AC mains lead, PHONO cable and PHONO earth lead except the supplied one.
- Keep the cartridge, auxiliary weight, nuts, screws and washers out of reach of children to prevent swallowing.
- Illustrations and figures in this manual are of the silver main body.
- The stylus is a consumable item. When replacing, purchase ortofon "stylus 2M Red".

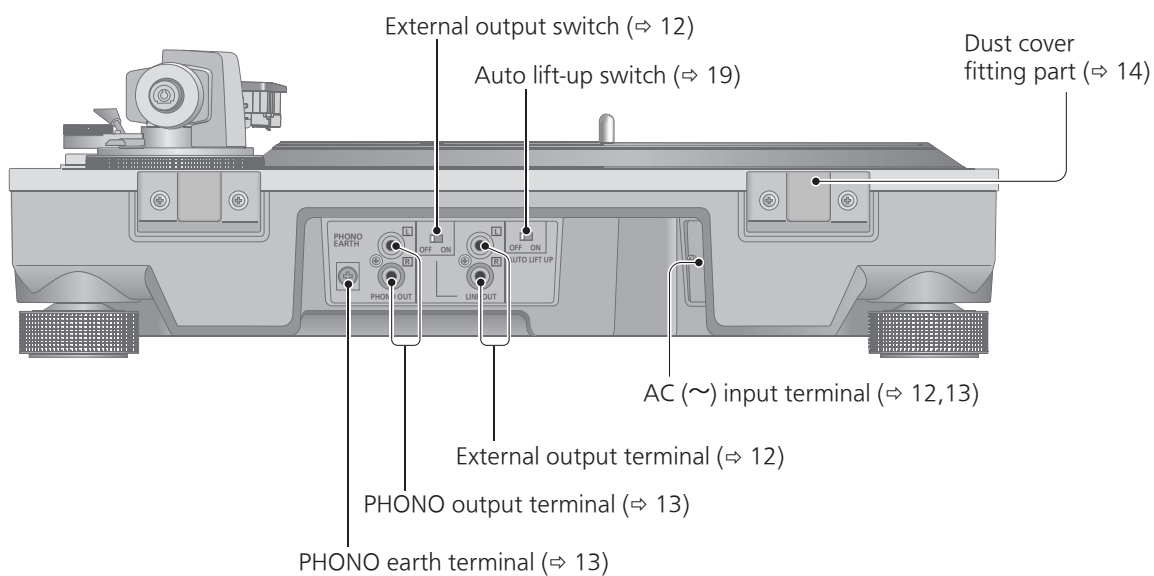
Parts Name

Numbers such as (⇒ 18) indicate reference pages.

Front



Back

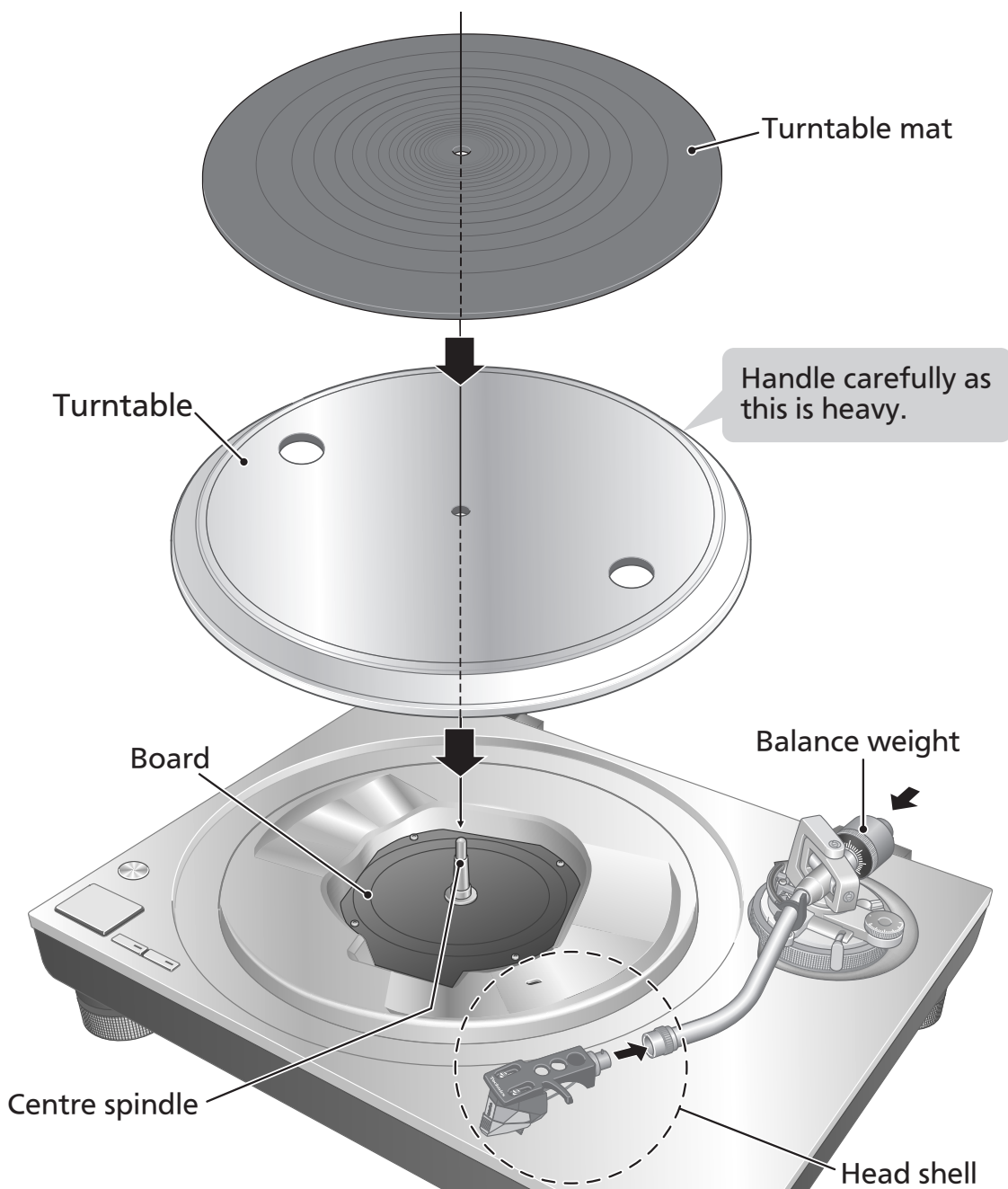


Putting the player together

In order to prevent damage during shipping, some of the equipment has been disassembled. Put the player together in the following order.

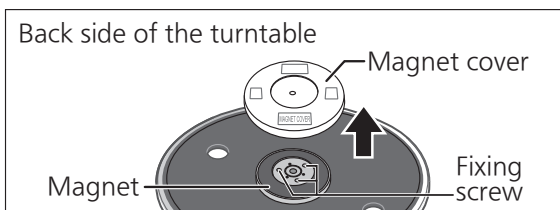
Attention

- Before setting up, put on the stylus guard to protect the stylus tip (⇒ 18), return the tone arm to the arm rest and fix it with the arm clamp.
- Do not connect the AC mains lead until set up is complete.
- When fitting the turntable, prevent foreign material from getting in between the main unit and turntable.
- Do not touch or scratch the board.



Before fitting the turntable

- 1 Remove the magnet cover from the turntable.
 - There is a magnet and its cover on the back side of the turntable. Remove the magnet cover before fitting to the main unit.



Attention

- Keep any magnetic-sensitive object such as a magnetic card and watch away from the magnet.
- Prevent the turntable from hitting the main unit or falling off. Prevent dust or iron powder from adhering to the magnet on the back side.
- Do not touch the fixing screws (three locations) of the turntable. The rating performance cannot be guaranteed if they are out of position.

Fitting the turntable

- 2 Slowly set the turntable on the centre spindle.

Attention

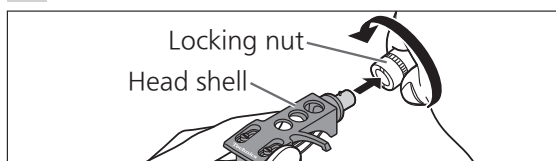
- Be careful when handling the turntable, as it is heavy.
- Keep your fingers from being caught.
- Wipe off fingerprints or dirt with a soft cloth.

Fitting the turntable mat

- 3 Lay the turntable mat on the turntable.

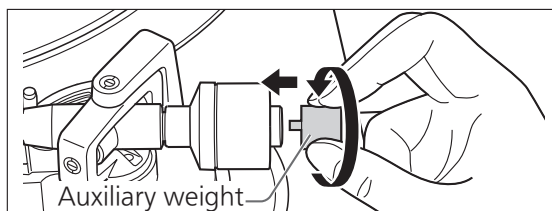
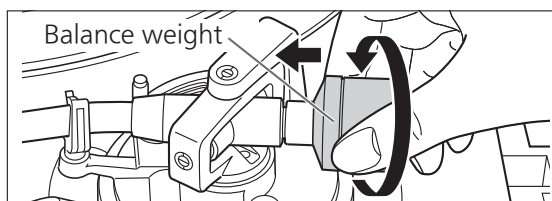
Attaching the head shell

- 4 Fit the head shell with the cartridge into the tone arm. Keep the head shell horizontal and tighten the locking nut.
 - Be careful not to touch the stylus tip.



Attaching the balance weight

- 5 Attach the balance weight to the rear of the tone arm.



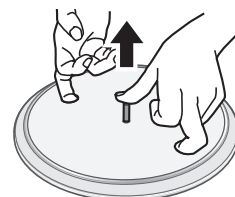
- Attach the included auxiliary weight to the rear of the tone arm according to the weight of your cartridge. For adjustable cartridge weight ranges, see "Applicable cartridge weight range". (⇒23)

Note

- The inside of the balance weight is greased.

To remove the turntable

As shown in the figure on the right, set your fingers in the two holes on the turntable, hold the centre spindle down and remove the turntable upward.



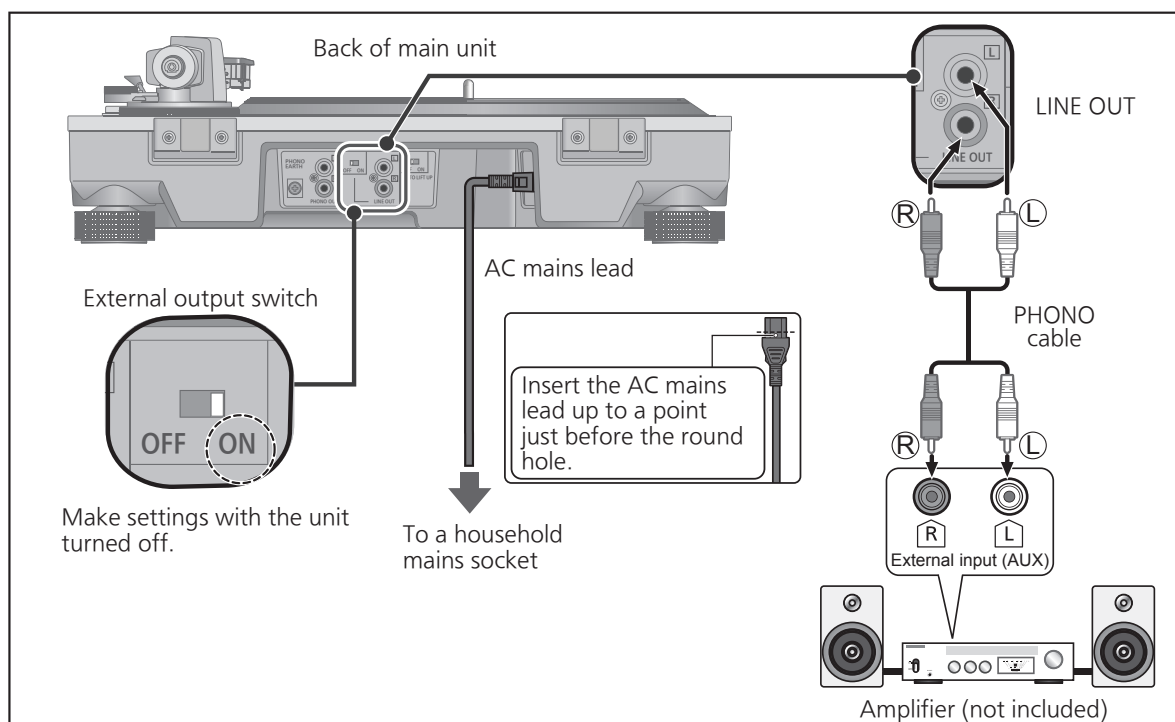
Connections and installation

- Do not simultaneously connect both the PHONO terminal output and external output terminals to a connected device (pre-main amplifier, component system, etc.). Connecting simultaneously may cause noise and/or popping sound.
- Turn off all units and disconnect the AC mains lead from the socket before making any connections.
- Do not operate the external output switch and connect or disconnect cables with the unit turned on.
- When connecting the PHONO output terminals, be sure to connect the PHONO earth lead. Otherwise, mains hum (buzzing noise) may occur.
- Refer also to the instruction manual of the connected device.

Connecting to an integrated amplifier or component system

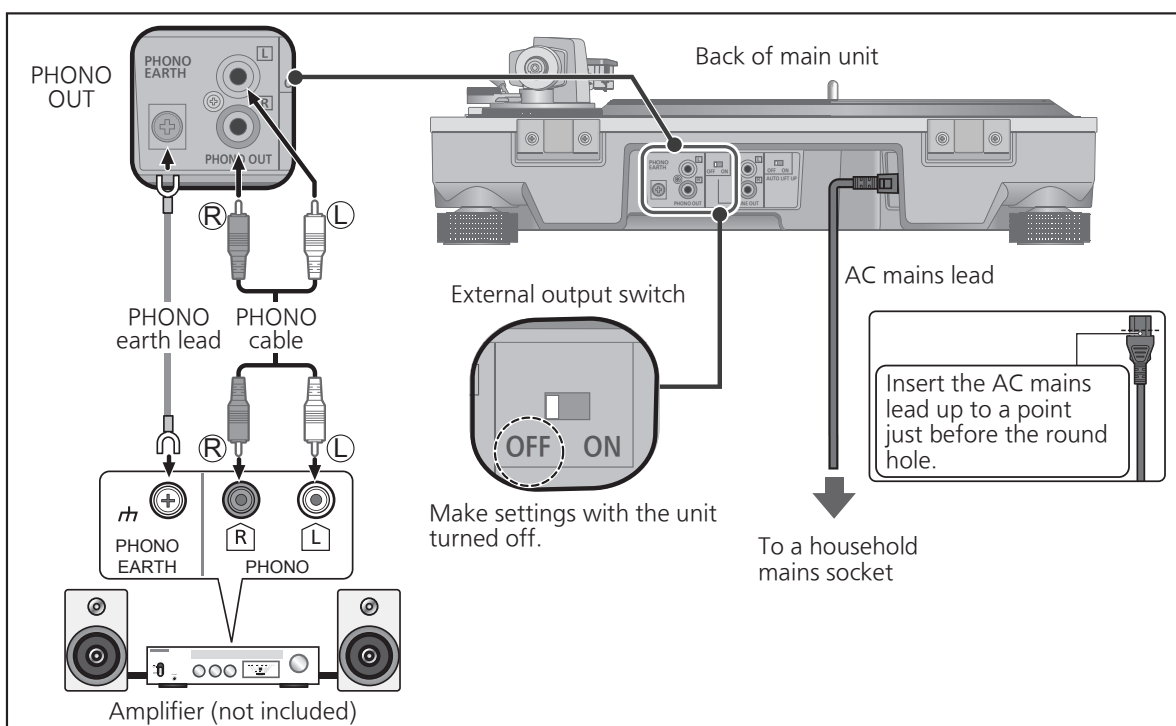
Connecting the external output terminals

- 1** Turn off the unit and the connected device, and disconnect the AC mains leads from the socket.
- 2** Connect the PHONO cable to the external output terminals of the unit and the external input terminals of the connected device.
 - When connecting the external output terminals, do not connect the PHONO earth lead.
 - Connecting to the PHONO input terminals of the connected device produces abnormal output, loud and with distorted sound quality.
- 3** Set the external output switch to "ON".
- 4** Connect the AC mains lead.
 - Confirm the wattage of the AC outlet on the connected equipment before using it for this unit.
For the power consumption of this unit, see the specifications. (⇒ 23)



Connecting the PHONO output terminals

- 1** Turn off the unit and the connected device, and disconnect the AC mains leads from the socket.
- 2** Connect the PHONO cable and PHONO earth lead to the PHONO input terminals of the connected equipment.
 - Adequate volume and sound quality cannot be obtained when connected to the external input terminals of the connected device.
- 3** Set the external output switch to "OFF".
- 4** Connect the AC mains lead.
 - Confirm the wattage of the AC outlet on the connected equipment before using it for this unit.
For the power consumption of this unit, see the specifications. (⇒ 23)



Attention

- Tighten the PHONO earth terminal using a Phillips head screwdriver.

Note

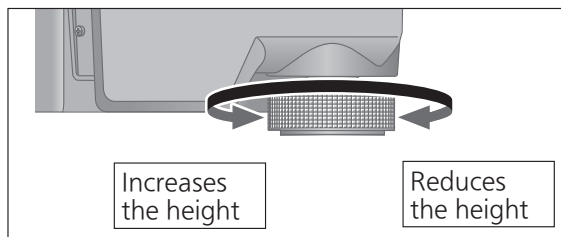
- Off/on switch [⏻/⏻] (OFF/ON)
Press to switch the unit from on to off mode or vice versa.
In off mode, the unit is still consuming a small amount of power.
Remove the plug from the mains socket if you will not be using the unit for an extended period of time. Place the unit so that the plug can be easily removed.

Connections and installation (continued)

Installation

Install the unit on a horizontal surface protected from vibrations.
Keep this unit as far as possible from speakers.

■ Adjusting the height to make the unit horizontal



Raise the main unit to turn the insulators and adjust the height.

- **Clockwise:** Reduces the height.
- **Anti-clockwise:** Increases the height.

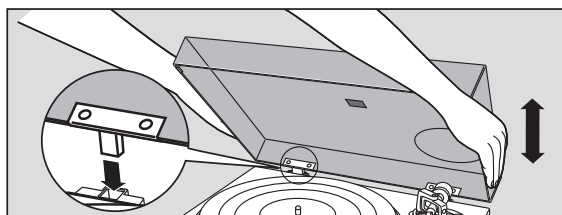
Attention

- Do not turn the insulators too far. Doing so may cause them to come off or damage them.

Fit the dust cover

- 1** Hold the dust cover with both hands and insert it into the dust cover fitting parts (⇒ 9) on the player.

- To remove the dust cover, keep it open and lift it straight above.



Attention

- Return the tone arm to the arm rest and fix it with the arm clamp before you attach or detach the dust cover.
- Remove the dust cover while playing.
- When inserting the dust cover, prevent the tip of the hinges from hitting and damaging the main unit.

■ Notes for installation

- Before you move the unit, turn the unit off, pull out the power plug and disconnect all connected devices.
- Ensure the unit is not exposed to direct sunlight, dust, humidity, and heat from a heating appliance.
- This unit may pick up interference from a radio if there is one nearby. Keep the unit as far as possible from a radio.
- Do not install the unit on a heat source.
- Avoid a place with large temperature variations.
- Avoid a place with frequent condensation.
- Avoid an unstable place.
- Do not put an object on the unit.
- Do not install the unit in a confined space such as a book shelf.
- Install the unit at a position well away from walls or other devices to ensure effective heat radiation from the inside of the unit.
- Make sure the installation location is sufficiently strong to withstand the total weight of the unit and system.(⇒ 23)
- Note that the unit may be damaged by cigarette smoke or moisture from an ultrasonic humidifier.

■ Condensation

Think of taking out a cold bottle from a refrigerator. If you leave it in a room for a while, dewdrops will form on the bottle surface. This phenomenon is called "condensation".

- Conditions causing condensation
 - ◇ Rapid temperature change (caused by moving from a warm place to a cold place or vice versa, rapid cooling or heating, or direct exposure to cooled air)
 - ◇ High humidity in a room with much steam, etc.
 - ◇ Rainy season
- Condensation may damage the unit. If it has occurred, turn the unit off and leave it until it adapts to the ambient temperature (approximately 2 to 3 hours).

Adjustment

Horizontal balance

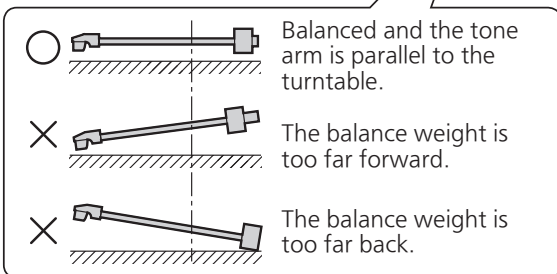
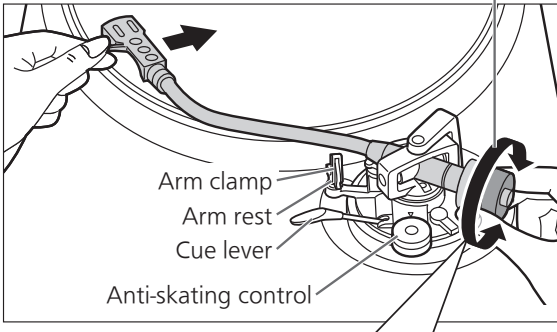
Preparation

- First, remove the dust cover.
- Remove the stylus cover (⇒ 18), taking care not to damage the stylus, then release the arm clamp.
- Lower the cue lever.
- Turn the anti-skating control to "0".

1 Free the tone arm from the arm rest and adjust horizontal balance by turning the balance weight.

Hold the tone arm and turn the balance weight in the arrow direction to adjust the balance until the arm is approximately horizontal.

- Take care not to allow the stylus tip to touch the turntable or main unit.



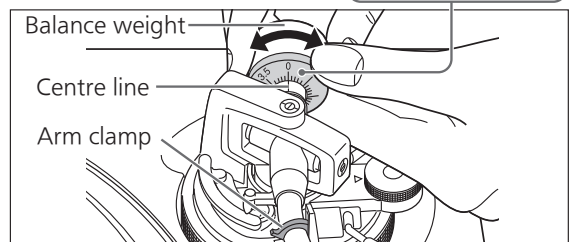
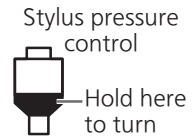
Stylus pressure

Preparation

- Return the tone arm to the arm rest and fix it with the arm clamp.

1 Turn the stylus pressure control until "0" comes to the centre line of the rear of the tone arm.

- Hold the balance weight still during doing this.

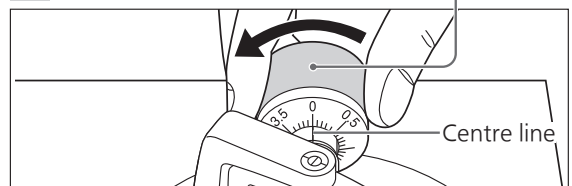
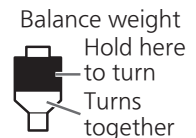


Note

- Stylus pressure of the supplied cartridge: 1.8 g
- When using a separately sold cartridge, refer to the user's guide for your cartridge for the appropriate stylus pressure.

2 Turn the balance weight to adjust to the appropriate stylus pressure for the cartridge.

- The stylus pressure control will turn together with the balance weight.
- Turn until the centre line points to the appropriate stylus pressure.

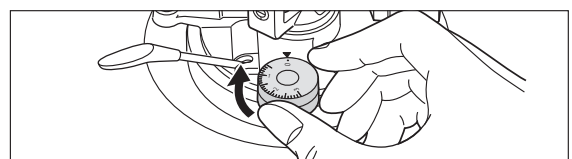


Anti-skating

1 Turn the anti-skating control to adjust it to the same value as the stylus pressure control.

Note

- For stylus pressures 3 g and above, adjust anti-skating control to "3".



Adjustment (continued)

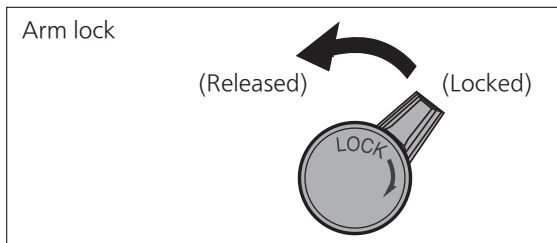
Tone arm height

Make this adjustment only if the cartridge you are using makes it necessary.

Preparation

- Put a record on the turntable.

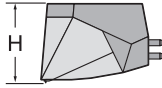
1 Release the arm lock.



2 Adjust the height with the arm-height adjuster.

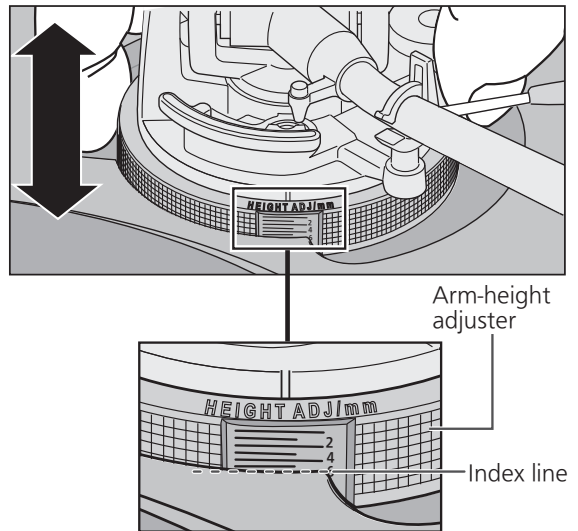
Adjust the arm height until the tone arm becomes parallel to the record.

- ① Use the chart below as reference to find the appropriate position mark for the height of your cartridge.

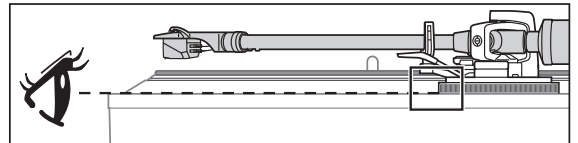
	Cartridge height (H) in millimeters	Height control position
	14	0
15	1	
16	2	
17	3	
18	4	
19	5	
20	6	

- Height of the accessory cartridge H = 18 (mm) (Height control position : 4)

- ② Hold the arm-height adjuster and slide it up or down to align the position mark with the index line. 0 to 6 mm are marked on the arm height adjuster.



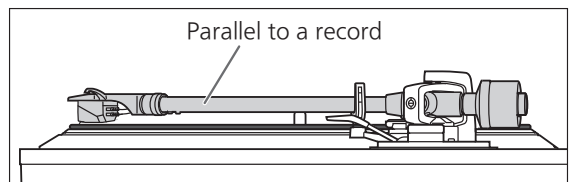
- When checking the index line of the arm-height adjuster, check with your eyes on the same level.



■ When you don't know the cartridge height (H) or when you don't use the accessory head shell

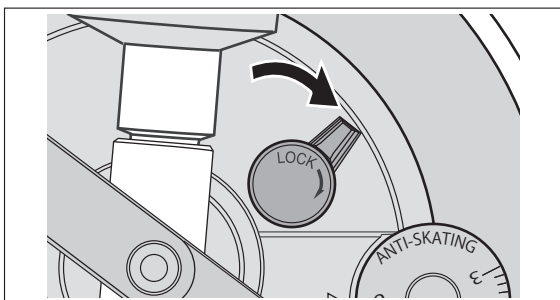
Remove the stylus cover, taking care not to damage the stylus, then release the arm clamp. Lower the cue lever, rest the stylus on the record and adjust the height control until the tone arm and record are parallel.

- If the cartridge height (H) is too small to make them parallel to each other, add a "cartridge spacer" (not supplied).



3 After arm height adjustment is finished, lock the tone arm by turning the arm lock knob.

- Be sure to turn the arm lock knob to the end as shown in the figure below. You may need to apply some force to do so.



Attention

- Be careful not to damage the stylus tip.
- Do not use the product with the arm lock released.
- For finer adjustment, use a level (not included) to adjust the arm height so that the cartridge becomes parallel to a record.

Armlift height

Make an adjustment according to your cartridge if necessary.

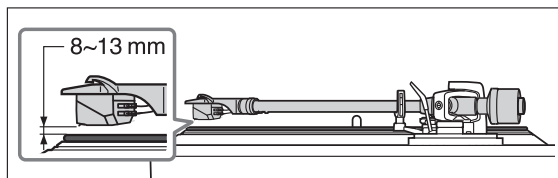
Preparation

- Put a record on the turntable.
- Remove the stylus cover (⇒ 18), taking care not to damage the stylus, then release the arm clamp.
- Lift the cue lever and move the tone arm over the record.

1 Check the armlift height (distance between the stylus tip and record surface).

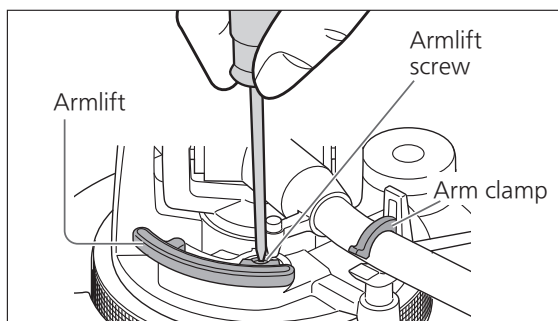
If adjustment is needed, go to step 2.

- The armlift height is factory-adjusted to 8 to 13 mm.



2 Return the tone arm to the arm rest and fix it with the arm clamp. Turn the adjustment screw.

- Turning the screw clockwise lowers the armlift.
- Turning the screw anti-clockwise raises the armlift.

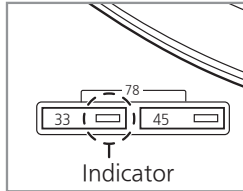
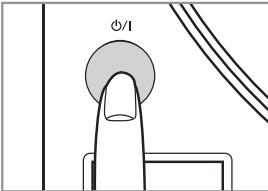


Playing records

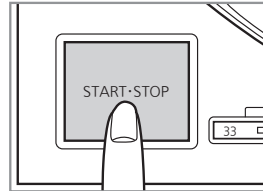
Preparation

- *1 Put a record (not included) on the turntable.
- *2 Take off the stylus cover and release the arm clamp.

1 Press [$\phi/|$] to turn the unit on.
33-1/3 rpm is automatically selected and the indicator [33] lights.

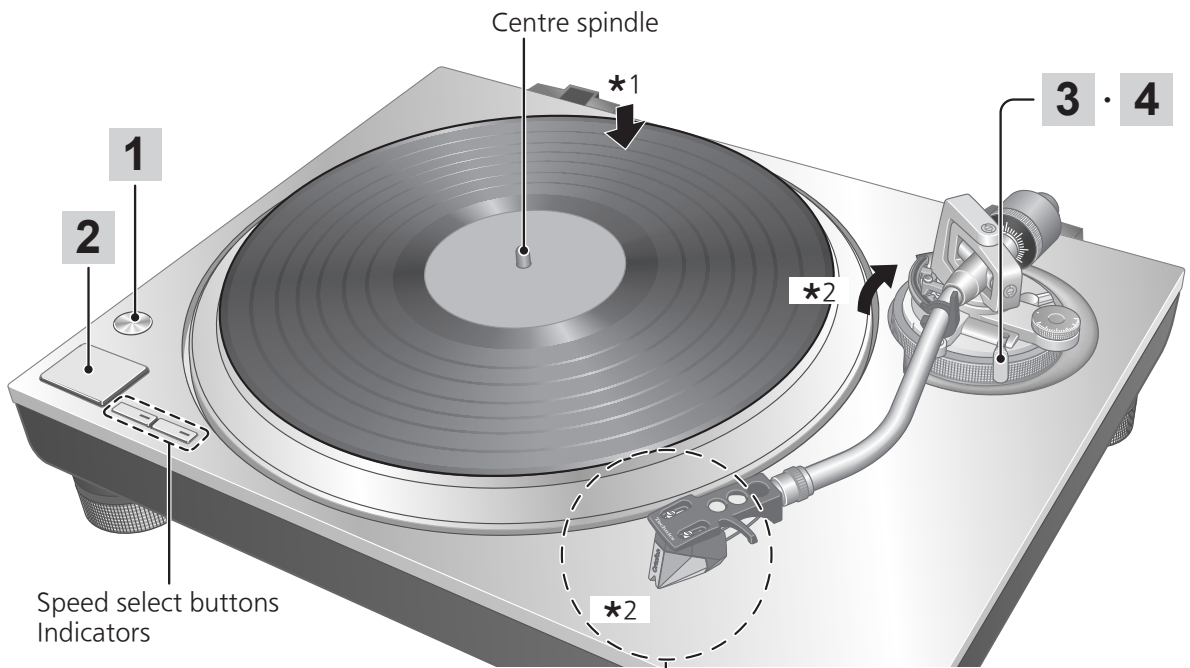


2 Press [START-STOP].
The turntable starts revolving.

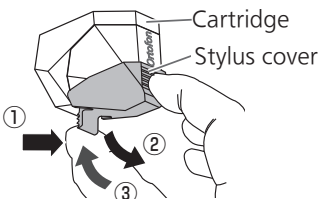


Attention

- Do not press [START-STOP] when the turntable is removed.
If you have accidentally pressed [START-STOP]
 - The indicator of the speed select button ([33] or [45]) starts blinking.
 - ⇒ If it is blinking, press [$\phi/|$] to turn the unit off, fit the turntable and then press [$\phi/|$] to turn the unit on.
- Turn the unit on or off with the volume on the connected device set to the minimum.



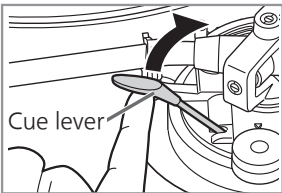
Speed select buttons
Indicators



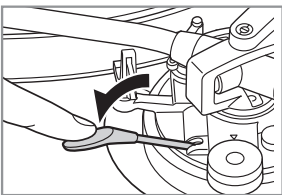
■ **Removing the stylus cover**
Hold the stylus cover from its front and back, and while pushing the latch on the rear part (①), slowly tilt the stylus cover downward (②).

■ **Attaching the stylus cover**
Hold the stylus cover from its front and back, align with the front of the cartridge, and slowly lift it (③) taking care not to damage the stylus.

3 Lift the cue lever and move the tone arm over the record.



4 Lower the cue lever slowly. The tone arm moves down slowly.



Play starts.

■ To temporarily stop play

Lift the cue lever.

- The stylus lifts off the record.
- To start play again, lower the cue lever.

■ When play finishes

- ① After lifting the cue lever to return the tone arm to the arm rest, lower it completely.
- ② Press [START-STOP].
The electronic brake gently stops the turntable.
- ③ Press [⏻/⏹] to turn the unit off.
- ④ Clamp the tone arm with the arm clamp.
- ⑤ Put the stylus cover back on (to protect the stylus tip).

■ Auto lift-up function

This function automatically lifts up the tone arm after a record finishes playing. It prevents the last groove from playing back repeatedly. (It does not stop the turntable rotation.)

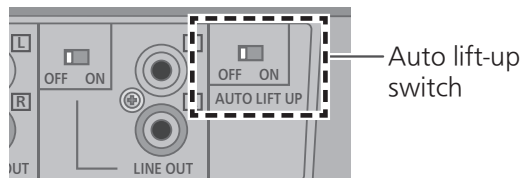
This function requires the following setting to become active.

Setting: With the unit turned off, set the auto lift-up switch on the rear side to "ON".

- After an auto lift-up, be sure to perform the steps ① to ⑤ described above in "When play finishes".

Attention

- Depending on the record, it may take some time after the play finishes for the auto lift-up to operate, or it may operate while the record is still playing. If the tone arm is lifted during play, set the auto lift-up switch to "OFF".
- The auto lift-up function may not operate normally. For the auto lift-up function to operate normally, the cue lever must be completely lowered after the tone arm is returned to the arm rest following the end of play.



■ When playing EP records

- Press the speed select button [45] ([45] lights).
- Fit the EP record adaptor over the centre spindle.

■ When playing SP (78 rpm) records

- Press the speed select buttons [33] and [45] at the same time (78 rpm: [33] and [45] light).

■ When using a record stabilizer (not included)

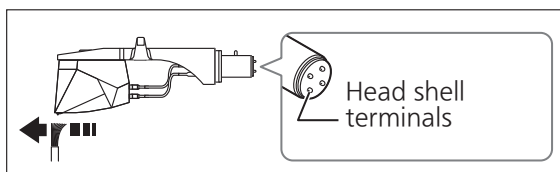
- See the instruction manual of the record stabilizer.
- Maximum weight: 1 kg

Maintenance

■ Care of the parts

Thoroughly clean dust off the stylus and record.

- Take off the head shell with the cartridge and clean the stylus using a soft brush. Brush from the base to the tip.
- Use a record cleaner to keep your records clean.



Wipe the head shell terminals occasionally.
Wipe the head shell terminals with a soft cloth and fit the head shell to the tone arm.

Turn the amplifier volume down or turn the amplifier off before fitting or removing the head shell.

Damage to your speakers can occur if the head shell is moved while the volume is turned up.

■ Cleaning the dust cover and cabinet

Wipe the dust cover and cabinet with a soft cloth.

Do not touch the board while cleaning.

Otherwise, the player may fail.

When dirt is heavy, wring a wet cloth tightly to wipe the dirt, and then wipe it with a soft cloth.

- Do not use solvents including benzene, thinner, alcohol, kitchen detergent, a chemical wiper, etc. This might cause the exterior case to be deformed or the coating to come off.
- Do not wipe the dust cover when it is in place. Doing so may cause the tone arm to be attracted towards the dust cover as a result of the generated static electricity. Be sure the dust cover is removed while playing a record.

■ Moving the unit

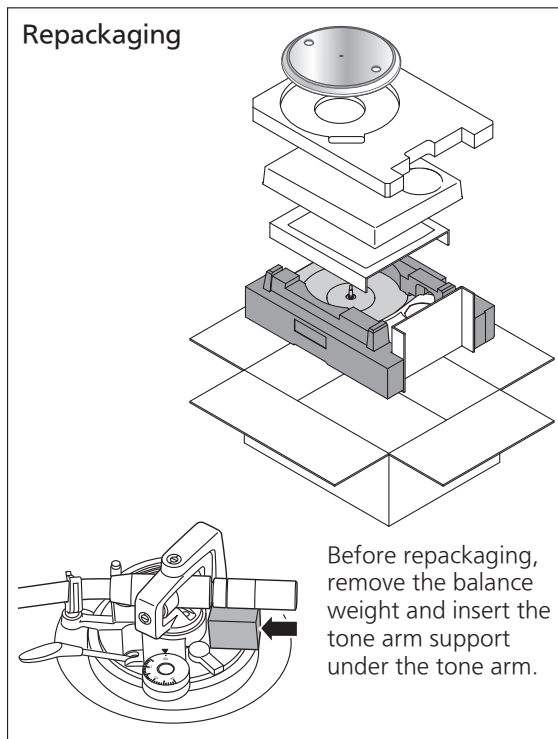
Repackage the unit in the packaging it came in.

Keep the packaging materials after taking out the goods.

If you no longer have the packaging, do the following:

- Take off the turntable and turntable mat and carefully wrap them.
- Remove the head shell and balance weight from the tone arm and carefully wrap them.
- Clamp the tone arm with the arm clamp and tape it in place.
- Carefully wrap the main unit in a blanket or paper.

Repackaging



Before repackaging, remove the balance weight and insert the tone arm support under the tone arm.

■ WEEE symbol

Disposal of the product outside the EU countries



This symbol is valid within the EU only.

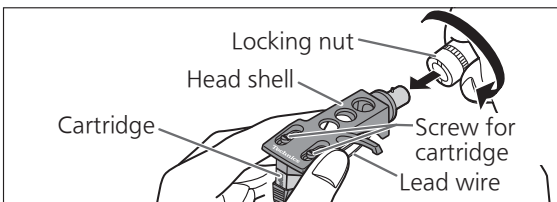
Contact a local governmental office or your dealer to confirm a right manner of disposal.

Replacing the cartridge

The cartridge can be replaced with one of your preference.

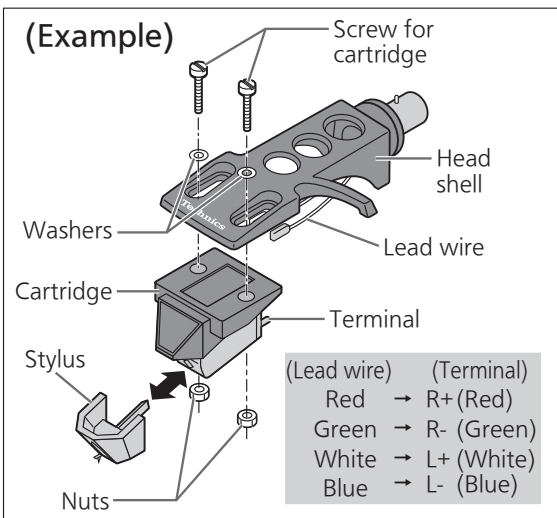
Removing the supplied cartridge

- 1** Attach the stylus cover (⇒ 18) and loosen the locking nut to remove the tone arm from the head shell.
- 2** Loosen the cartridge mounting screws to remove the supplied cartridge from the head shell.
 - Use a commercially available mini flat screwdriver (4 mm).
 - Be careful not to overturn the head shell.
- 3** Remove the leads from the terminals.
 - Be careful not to cut the leads.



Attaching the cartridge

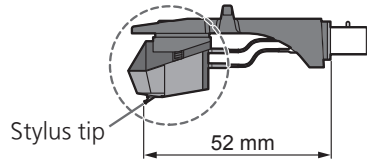
- 1** Attach a cartridge tentatively. Follow the instructions of the replacement cartridge to correctly attach it to the head shell, and tighten the screws lightly.
 - If the mounting screws are included in the cartridge, use them.
 - When playing SP records, use a cartridge for SP records.
 - Use a commercially available mini flat screwdriver (4 mm).
 - Be careful not to touch the stylus tip.



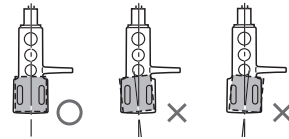
2 Adjust the overhang.

- Be careful not to touch the stylus tip.

- ①** Move the cartridge to adjust the overhang in such a way that the stylus tip is at 52 mm from the head shell mounting end, as shown in the figure below.

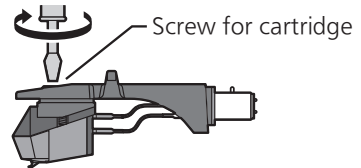


- ②** The cartridge should be parallel on the shell head when viewed from the top and side (the illustration is the top view).



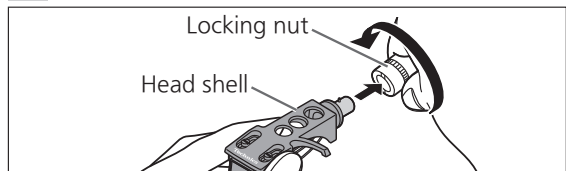
- ③** Tighten the screw for cartridge.

- Be careful not to allow the cartridge to slip out of place.



Attaching the head shell

- 1** Fit the head shell with the cartridge into the tone arm. Keep the head shell horizontal and tighten the locking nut.
 - Be careful not to touch the stylus tip.



Attention

- Store the removed screws, washers and nuts in such a way that they do not get lost.
- This unit is for use with MM type cartridges. The external output terminals cannot be used when used with an MC type cartridge.

Troubleshooting guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, contact your dealer.

No power.

- Is the AC mains lead plugged in?
→ Plug the mains lead in firmly. (⇒ 12, 13)

There is power but no sound, sound is weak or abnormal, loud and with distorted sound quality.

- Are device connections and PHONO or external output terminal connections correct?
→ Connect the PHONO output terminals with the amplifier's PHONO input terminals. (⇒ 13)
→ Connect the external output terminals to the amplifier's external input terminals. (⇒ 12)
- Is the external output switch correctly set?
→ When connecting the external output terminals, set the external output switch to "ON". (⇒ 12)

Left and right sounds are reversed.

- Are the stereo connection cable connections to the amplifier or receiver reversed?
→ Double check all connections. (⇒ 12, 13)
- Are connections of the head shell's lead wires to the cartridge terminals correct?
→ Double check all connections. (⇒ 21)

Low, continuous sound (humming or buzzing sound), noise or popping sound is heard during play.

- Are there other appliances or their AC mains lead near the stereo connection cable?
→ Separate the appliances and their AC mains lead from this unit.
- Is the earth lead connected?
→ When connecting the PHONO output terminals, correctly connect the PHONO earth lead. (⇒ 13)
- Are both the PHONO terminal output and external output terminals simultaneously connected to the connected device?
→ Connect one or the other. (⇒ 12, 13)

The indicator on the speed select button [33] or [45] blinks.

Perform the following operations when the indicator on the speed select button [33] or [45] blinks. The symptom may be improved.

- ① Press [⏻/|] to OFF.
 - ② Pull out the power plug, wait for three seconds or more, and then insert the plug again.
 - ③ Press [⏻/|] to turn the unit on and press [START-STOP] to rotate the turntable.
- If the indicator on the speed select button blinks again, check which one is blinking and contact our service representative.

Specifications

General	
Power supply	AC 110 - 240 V, 50/60 Hz
Power consumption	8.0 W (ON) Approx. 0.2 W (OFF)
Dimensions (W×H×D)	453 x 169 x 372 mm
Mass	Approx. 9.9 kg
Operating temperature range	0 °C to +40 °C
Operating humidity range	35 % to 80 % RH (no condensation)
Turntable section	
Drive method	Direct drive
Motor	Brushless DC motor
Turntable platter	Aluminum diecast Diameter: 332 mm Weight: About 2.0 kg (including rubber sheet)
Turntable speeds	33-1/3 rpm, 45 rpm, 78 rpm
Starting torque	0.18 N·m (1.8 kg·cm)
Build-up characteristics	0.7 s. from standstill to 33-1/3 rpm
Braking system	Electronic brake
Wow and flutter	0.025 % W.R.M.S.

Tone arm section	
Type	Static Balance
Effective length	230 mm
Overhang	15 mm
Tracking error angle	Within 2° 32' (at the outer groove of 30 cm record) Within 0° 32' (at the inner groove of 30 cm record)
Offset angle	22°
Arm-height adjustment range	0 – 6 mm
Stylus pressure adjustment range	0 – 4 g (direct reading)
Head shell weight	Approx. 7.6 g
Applicable cartridge weight range	(Without the auxiliary weight) 5.6 – 12.0 g 14.3 – 20.7 g (including the head shell) (With the small auxiliary weight) 10.0 – 16.4 g 18.7 – 25.1 g (including the head shell)
Shell terminal	ø1.2 mm 4 pin terminal

Phono equalizer section

Gain	37 dB
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Cartridge section

Type	MM type
Output voltage	5.5 mV
Mass	7.2 g
Stylus pressure	1.8 g

Specifications are subject to change without notice.

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