



Turntable

GT-5000

Owner's Manual

Congratulations on your purchase of this Yamaha product!

Features

This is a turntable for playing analog records.

- ◆ **Massive yet elegant heavy wooden chassis effectively serve to dampen vibration**
- ◆ **Large, heavy double-structured platter for enhanced stability and performance**
- ◆ **Custom belt-drive mechanism driven by 24-pole, 2-phase AC synchronous motor**
- ◆ **Short, straight tonearm designed to deliver superior rigidity as well as a balanced weight**
- ◆ **Specially-designed custom feet**
- ◆ **XLR balanced output jacks that enable end-to-end balanced signal transfer from cartridge to speaker**

Before you start

About this manual

This manual explains how to set up and operate this unit. When reading this manual, please note the following:

- To use the product properly and safely, we suggest that you read this manual and the included Safety Brochure thoroughly. Keep the manual in a safe, accessible place for future reference.
- Specifications and appearance are subject to change without notice in order to improve the product.
- The illustrations in this manual are for instructional purposes only.
- Explanation of graphic symbols used in this manual:



Symbol	Description
 WARNING	Indicates points that you must observe to avoid risk of death or serious injury.
 CAUTION	Indicates points that you must observe to avoid risk of injury.
NOTICE	Indicates points that you must observe to avoid damaging the product or causing it to malfunction.
Note	Indicates supplementary information that you may find useful.

Table of contents

Features 3

Before you start 4

About this manual 4

Checking the supplied accessories . . . 6

Part names 8

Getting ready 11

Location 11

Assembly 12

Assembling the unit 12

Installing a cartridge 14

Making connections 15

Making adjustments 17

Adjusting the stylus pressure 17

Adjusting the tonearm height 18

Turning the power on 19

Playing a record 20

Starting the record 20

Pausing the record 21

Stopping the record 21

When necessary 22

Checking the speed 22

Care 22

Replacing the belt 23

Troubleshooting 24

Appendix 26

Specifications 26

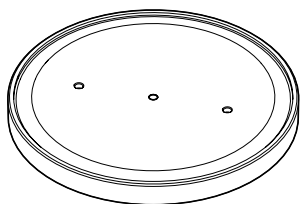
Checking the supplied accessories

Make sure that all items are present.

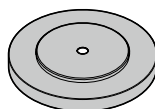
Note

- Store the packaging materials, such as the packing box. If you relocate, you will need these materials to safely transport this product. Refer to the “Supplement” in the package for information on how to re-pack the product.

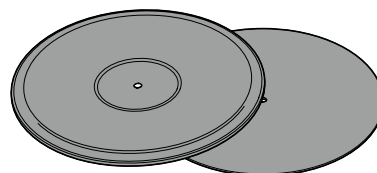
- **Platter ×1**



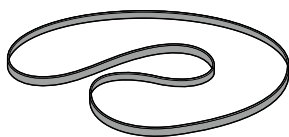
- **Sub platter ×1**



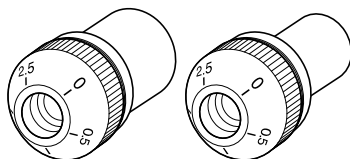
- **Turntable mat ×2**



- **Belt ×1**



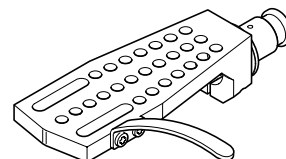
- **Counter weight ×2**



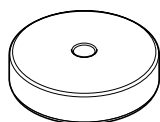
Large

Small

- **Head shell ×1**



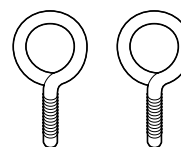
- **45 rpm adaptor ×1**



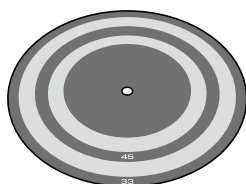
- **Dial cover ×1**



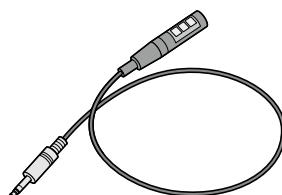
- **Handle ×2**



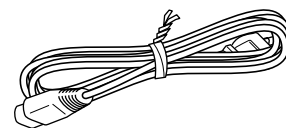
- **Stroboscopic disc ×1**



- **Strobe light ×1**



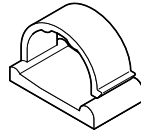
- **Power cord ×1**



- **Hexagonal wrench (2.5 mm) ×1**
* To adjust the tonearm height



- **Cable clamp ×1**
* Use this clamp if you connect a phono cable directly to the tonearm.



- **Washer ×1**
* For the head shell



- **Owner's Manual (this book)**
- **Safety Brochure**
- **Supplement**

 **CAUTION**

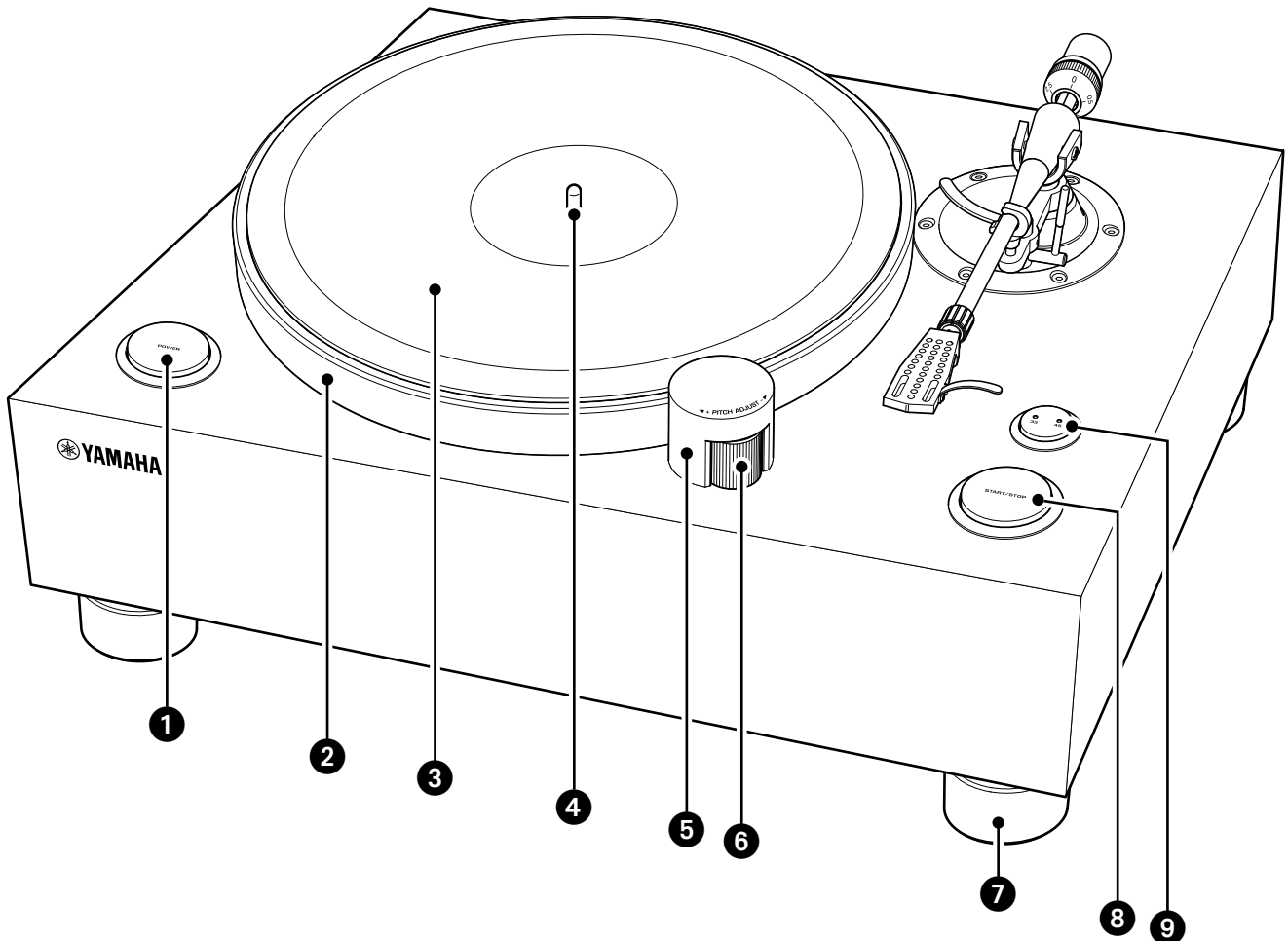
Pay attention to these small accessory items to prevent children from swallowing them by accident.

Have the following items ready:

- **Cartridge**
- **XLR balanced cable** * For a balanced connection
- **RCA stereo cable** * For an unbalanced connection

Part names

Top panel



1 POWER button (⇒ page 19)

2 Platter (⇒ page 13)

3 Turntable mat (⇒ page 13)

4 Center spindle (⇒ page 13)

5 Dial cover (⇒ page 13)

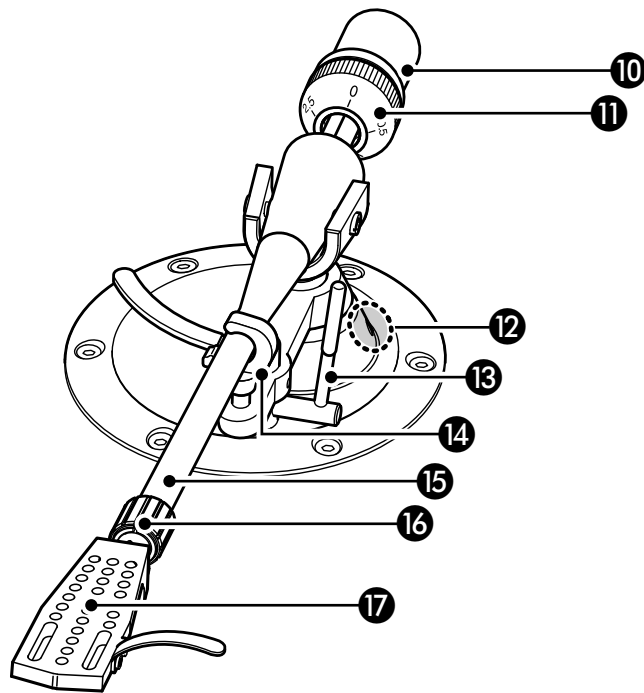
6 PITCH ADJUST (speed control)
(⇒ pages 13, 22)

7 Foot

8 START/STOP button (⇒ page 20)

9 Speed button (⇒ page 20)
Speed indicator (⇒ page 20)

Tonearm section



10 Counter weight (⇒ page 13)

11 VTF* dial (⇒ page 17)

* Vertical Tracking Force

12 VTA* adjustment screw (⇒ page 18)

* Vertical Tracking Angle

13 Lift lever (⇒ page 20)

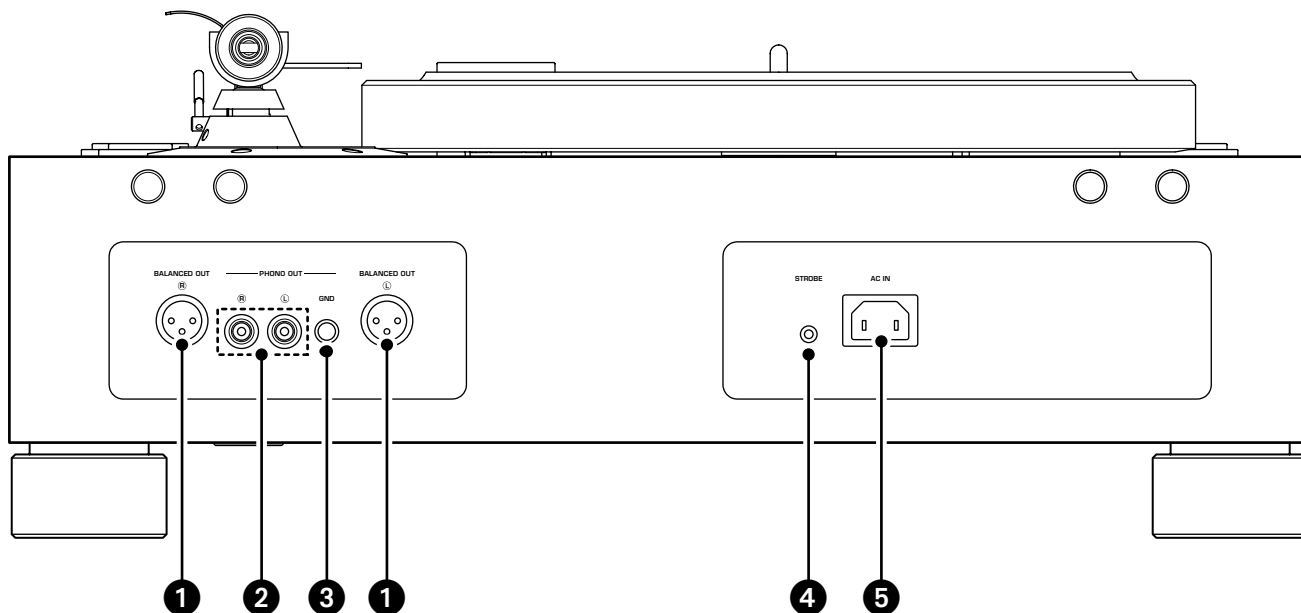
14 Arm rest (⇒ page 17)

15 Tonearm (⇒ page 13)

16 Lock nut (⇒ page 14)

17 Head shell (⇒ page 14)

Rear panel



- ❶ BALANCED OUT jacks (⇒ page 15)
- ❷ PHONO OUT jacks (⇒ page 16)
- ❸ GND (Ground) terminal (⇒ page 16)
- ❹ STROBE jack (⇒ page 22)
- ❺ AC IN inlet (⇒ pages 15, 16)

Getting ready

Location

Since a turntable and the sound of a record are easily affected by vibration, you should place the unit on a level surface that is extremely stable.

Place the turntable sufficiently far from your speaker system so that it will not be affected by sound pressure or vibration.

 **CAUTION**

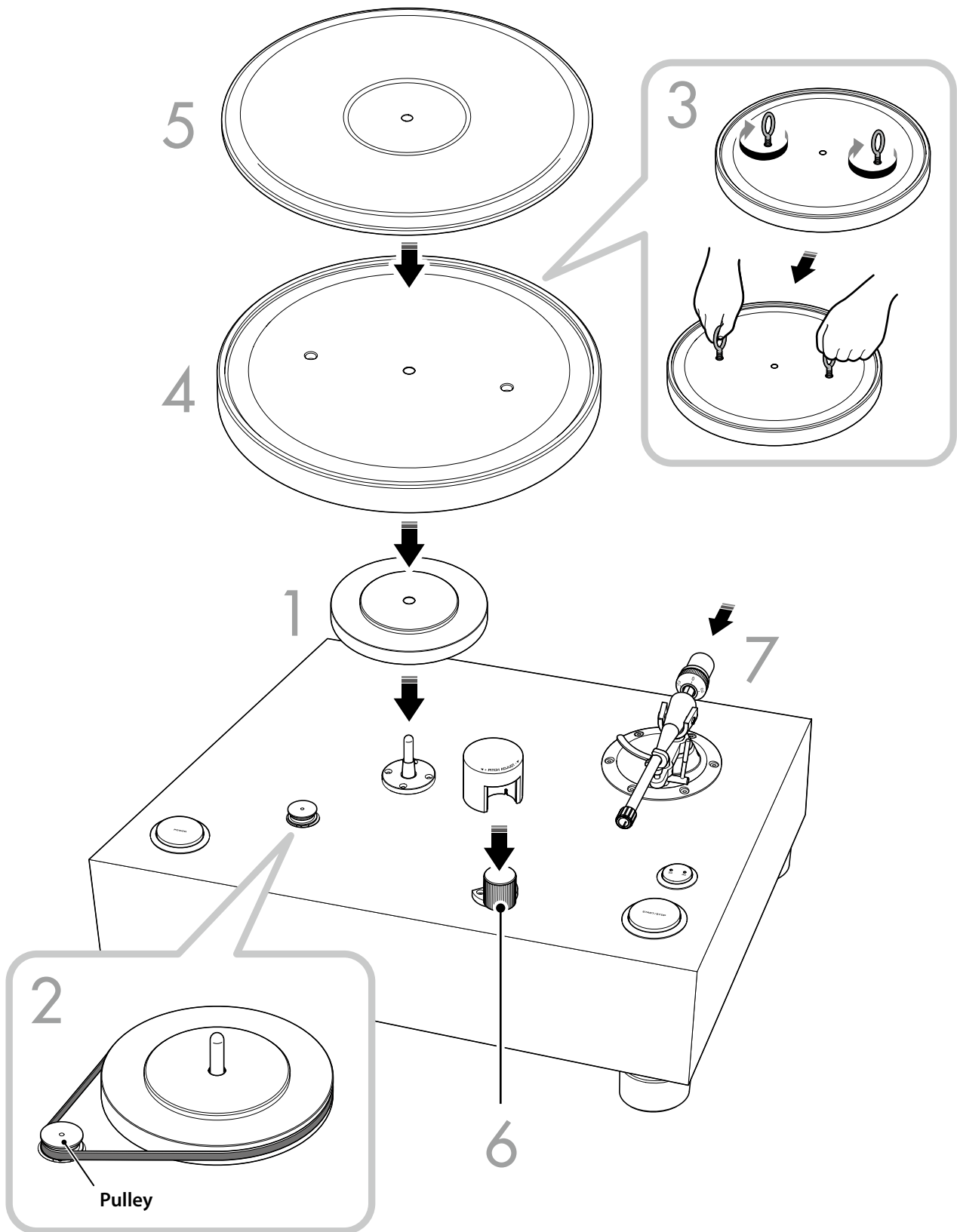
If you need to lift or relocate the unit, make sure that two or more people will do so.

NOTICE

Do not attempt to rotate the feet. Otherwise, they might be damaged.

Assembly

■ Assembling the unit



1 Install the sub platter onto the center spindle.

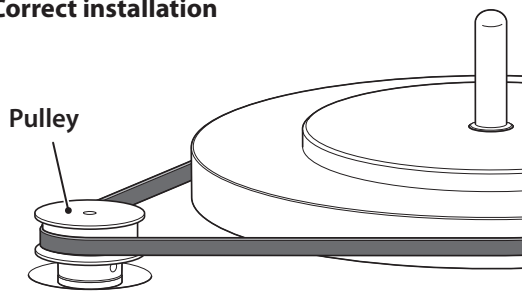
NOTICE

Do not apply force to the center spindle when you install the sub platter onto the center spindle. Otherwise, the center spindle might be damaged.

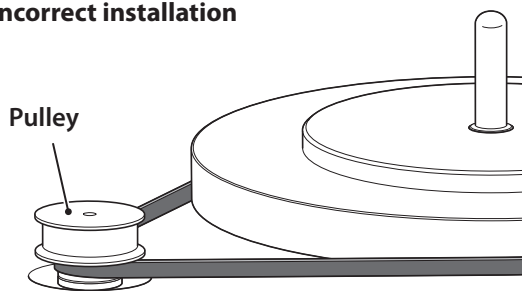
2 Install the belt around the sub platter and pulley.

Hook the belt to the upper groove on the pulley while making sure that the belt is not twisted. Rotate the sub platter clockwise to ensure that the belt will be well seated.

Correct installation



Incorrect installation



3 Screw the handles into the platter, and then lift the platter by holding the handles.

CAUTION

Take care not to drop the platter. Dropping it might cause injury, or damage the unit.

4 Install the platter onto the center spindle.

Remove the handles from the platter.

5 Place the turntable mat on the platter.

Note

- You can use the rubber or felt turntable mat.
- The side of the rubber turntable mat with a dent in the center should face upward.

6 Attach the dial cover to the PITCH ADJUST.

7 Attach the counter weight to the tonearm.

With the markings on the counter weight facing you, slide it onto the back end of the tonearm.

Note

Depending on the weight of the cartridge, install the large or small counter weight. For information about acceptable cartridge weights for each counter weight, refer to the “Specifications” section on page 26.

■ Installing a cartridge

A cartridge is not included with this product. Follow the steps below to install a commercially-available cartridge into the head shell.

Note

Refer to the instruction manual for the cartridge.

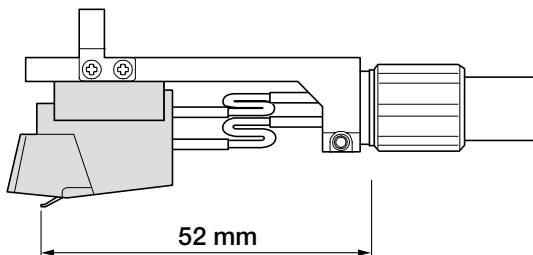
1 Connect the lead wires to the cartridge.

Lead wire		Connector
Red	➔	R+ (red)
Green	➔	R- (green)
White	➔	L+ (white)
Blue	➔	L- (blue)

2 Provisionally secure the cartridge to the head shell.

3 Adjust the position of the cartridge.

Adjust the position of the cartridge and stylus as shown in the following illustration.



Note

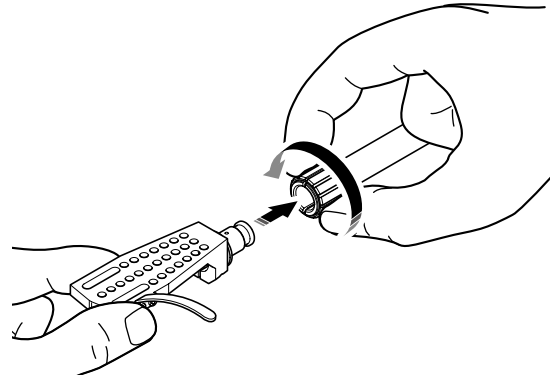
The overhang of the tonearm on this unit is -17 mm.

4 Firmly secure the cartridge.

Verify that the side of the head shell is parallel with the cartridge, and then firmly tighten the screws.

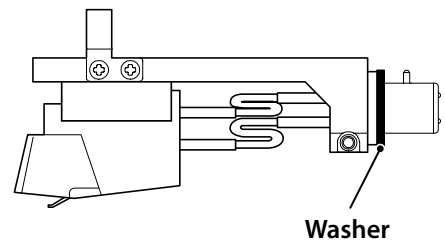
5 Attach the head shell to the tonearm.

Insert the head shell into the front end of the tonearm, and turn the lock nut to secure it.



Note

If you prefer, attach the washer to the head shell.



Making connections

CAUTION

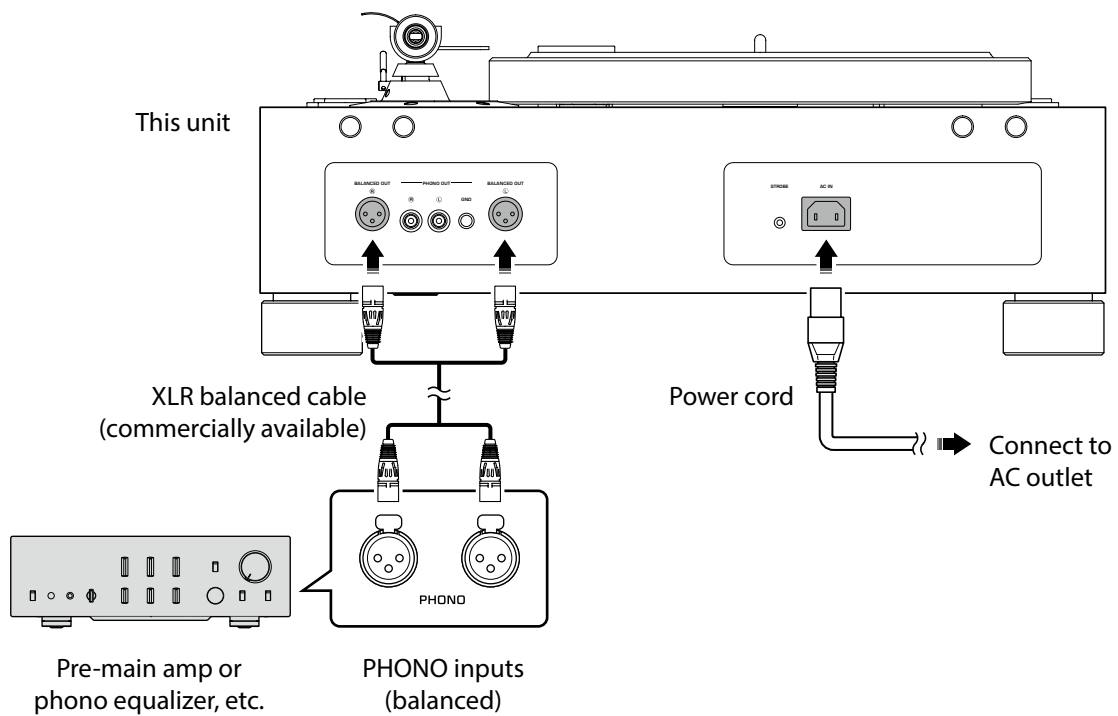
Finish making all other connections before you connect the power cord to an AC outlet.

Note

- Do not use both balanced and unbalanced connections at the same time.
- For additional information, please refer to the owner's manuals for the device that you are connecting.

Balanced connection

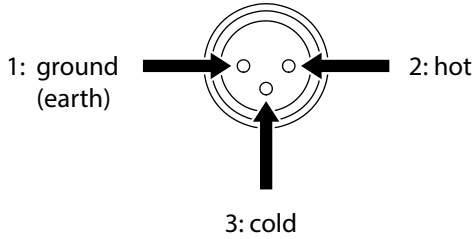
Use an XLR balanced cable to connect your amplifier to the BALANCED OUT jacks.



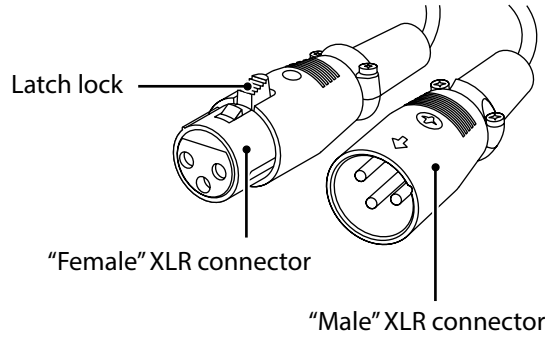
Continue to the next page ➡

Note

- Connect the turntable to the XLR balanced input jacks on your amplifier. The pin assignments for these jacks are shown below.

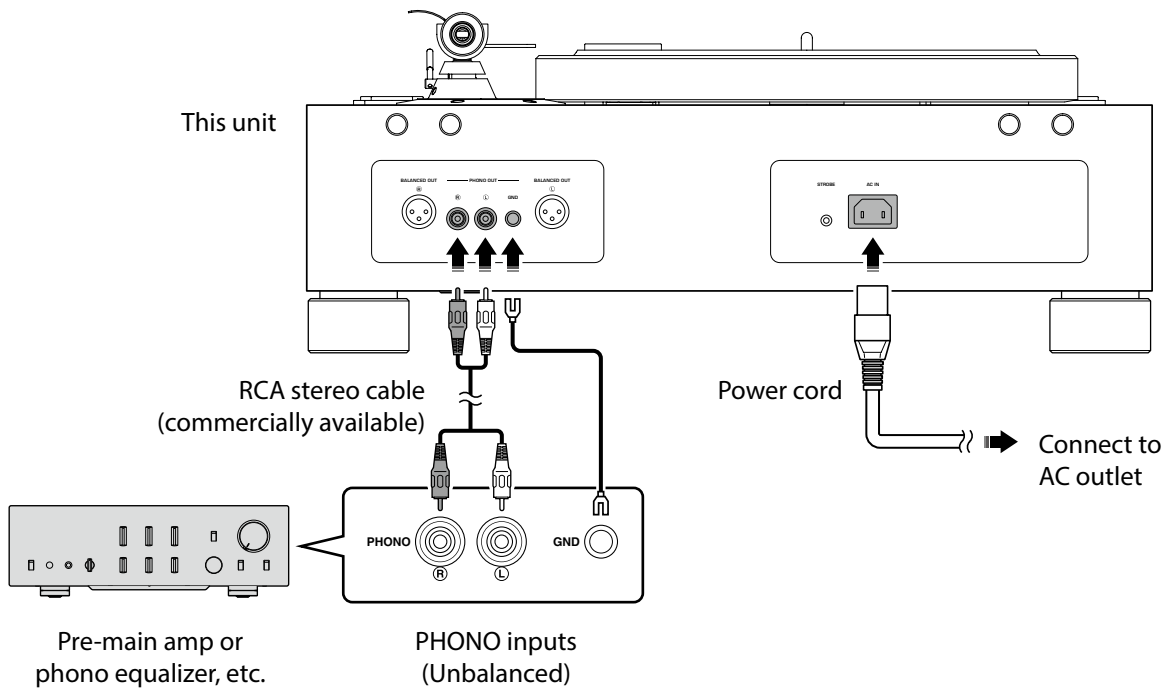


- When connecting, be sure to match the pins and insert the connector of the "female" XLR balanced cable. When disconnecting, pull out the "female" XLR balanced cable while pressing down the latch lock on the plug.



Unbalanced connection

Use an RCA stereo cable to connect the amplifier to the PHONO OUT jacks.



Note

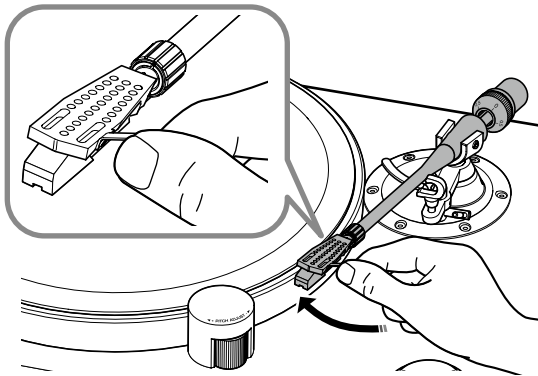
The GND terminal is not a safety grounding (earthing) system.

Making adjustments

■ Adjusting the stylus pressure

Adjust the tonearm so that the appropriate stylus pressure will be applied to the record.

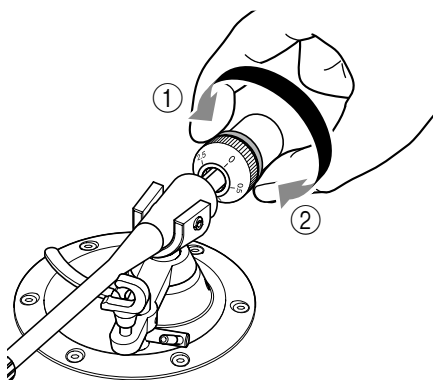
- 1 Remove the tonearm from the arm rest and move it slightly towards the record.



NOTICE

Take care that the stylus does not contact any part of the unit.

- 2 Turn the counter weight so that the tonearm will be horizontal.

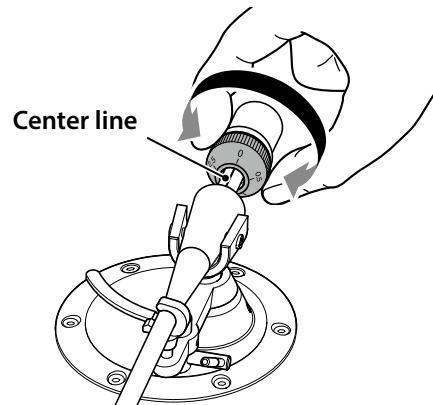


Toward ①: Counter weight moves forward on the tonearm.

Toward ②: Counter weight moves backward on the tonearm.

- 3 Return the tonearm to the arm rest.

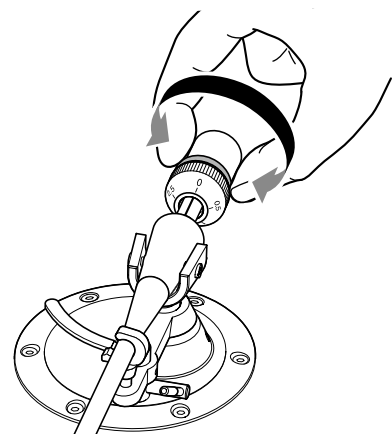
- 4 Turn the VTF dial so that the "0" marking will be aligned with the center line on the back end of the tonearm.



Note

When turning the VTF dial, use your fingers to hold the counter weight in place so that it will not rotate.

- 5 Turn the counter weight to set the VTF dial markings to the stylus pressure specified for the cartridge.



Note

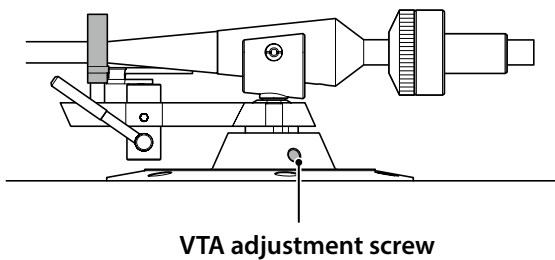
- Turning the counter weight also turns the VTF dial.
- Use a stylus pressure gauge to set an accurate stylus pressure.

■ Adjusting the tonearm height

If the tonearm and the record are not in parallel when you lower the stylus onto the record, you will need to adjust the tonearm height. Follow the steps below:

1 Return the tonearm to the arm rest and set it securely in position.

2 Use the hexagonal wrench to loosen the VTA adjustment screw.



NOTICE

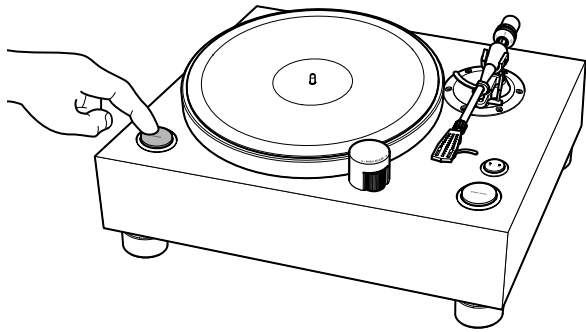
The tonearm is secured by the VTA adjustment screw. Before loosening the screw, gently support the entire tonearm with your hand so that it will not fall.

3 Move the tonearm up and down to adjust its height so that the tonearm and record will be in parallel.

4 Use the hexagonal wrench to tighten the VTA adjustment screw and secure the tonearm.

Turning the power on

Press the POWER button on the top panel of the unit to turn on the power to the unit.



Playing a record

Starting the record

CAUTION

If you start to play a record without first sufficiently lowering the volume of your amplifier, a loud sound might occur when the tip of the stylus contacts the record. This could in some cases cause hearing loss and might damage your amplifier and speakers, so be sure to lower the volume of your amplifier first.

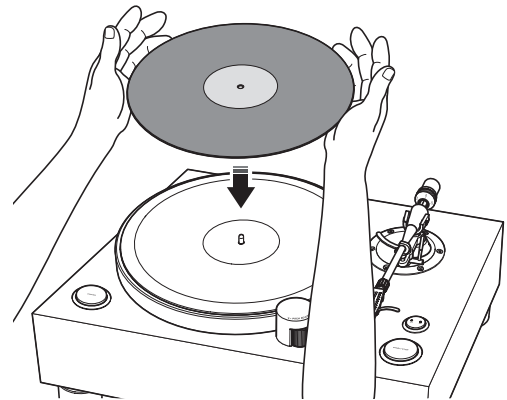
NOTICE

Be sure to use this product at an allowable operating temperature (10 °C–35 °C [50 °F–95 °F]). Otherwise, uneven rotation may occur, or the record or the tip of stylus may get damaged, in particular under cooler temperatures below 10 °C (50 °F).

This product is equipped with a relatively low-torque motor to achieve stable playback by suppressing torque fluctuation during rotation. If the grease viscosity of the center spindle increases and thickens under cooler temperatures, the rotational load of the turntable also increases, and may force the motor to exceed its performance limits. If this happens, the selected rotation speed may not be achieved or an uneven rotation may occur.

1 Place the record on the platter.

If you are playing a 45 rpm record, use the 45 rpm adaptor.



2 Press the speed button repeatedly to select the rotation speed that is appropriate for the record.

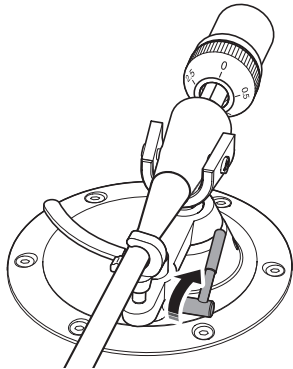
The speed indicator for the selected speed will light up.

3 Press the START/STOP button.

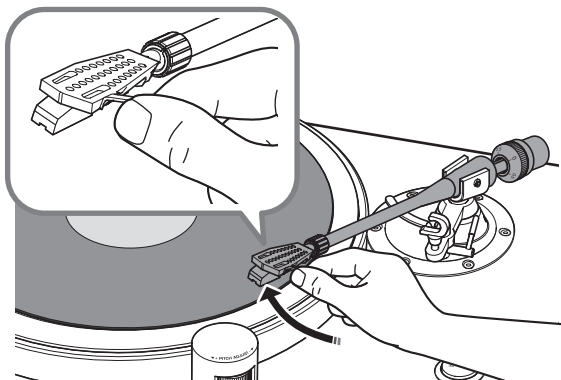
The platter starts to rotate.

The speed indicator will be flashing until the selected speed is reached.

4 Raise the lift lever.

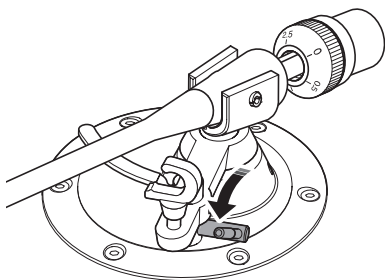


5 Move the tonearm to the playback position of the record.



6 Lower the lift lever.

The tonearm is lowered, and the record begins to play.



■ Pausing the record

If you raise the lift lever, the tonearm rises and playback pauses. When you lower the lift lever, playback resumes.

■ Stopping the record

- 1 Raise the lift lever.
- 2 Return the tonearm to the arm rest.
- 3 Lower the lift lever.
- 4 Press the **START/STOP** button.
The platter stops rotating.

Note

The tonearm does not automatically rise when the record finishes playing.

When necessary

Checking the speed

To check and adjust the speed, follow the steps below.

1 Connect the strobe light to the **STROBE jack on the rear panel of the unit.**

2 Place the stroboscopic disc on the platter.

3 Press the speed button repeatedly to select the rotation speed.

4 Press the **START/STOP** button.

The platter starts to rotate and the strobe light turns on.

5 Shine the strobe light onto the stroboscopic disc.

6 Use the **PITCH ADJUST** to adjust the speed.

Rotate the **PITCH ADJUST** in the + or – direction until the relevant herringbone ring on the stroboscopic disc appears to be stationary.

Note

- You can use the **PITCH ADJUST** to adjust the speed while the record is being played. For adjustment steps and range, refer to the “Specifications” section on page 26.
- The adjusted speed will be retained after the power to the unit is turned off.
- The stroboscopic disc and strobe light included in the package should be used only for this unit. When you check the speed, use both of them together.

Care

Caring for this unit

Wipe the unit with a soft dry cloth. If the finish of your unit is piano black, we recommend using a cleaning cloth made for pianos. Do not use chemicals such as benzine or thinner, since they might damage the surface.

Caring for the record stylus

The tip of the record stylus is extremely delicate. Handle it with care so that it is not damaged. If dust should adhere to the tip of the stylus, use a soft pointed brush to wipe it off starting at the base of the stylus and moving toward the tip, or use a commercially-available cleaner made for that purpose.

Note

Before you clean or perform maintenance on the unit or stylus, be sure to turn off the power to the unit.

Caring for records

Dirt adhering to a record can cause skips or noise. Use a commercially-available record cleaner to remove dirt.

Replacing the belt

In certain circumstances, the belt can wear out or break. If this occurs, replace the belt. For a replacement belt, contact your nearest authorized Yamaha dealer or service center.

Note

Before you replace the belt, turn off the power to the unit and connected devices, and disconnect the power cord of the unit from the AC outlet.

Troubleshooting

If the unit stops operating correctly, check the following points.

If taking the appropriate action does not solve the problem, or if you encounter a problem that is not listed below, press the POWER button located on the unit's top panel to turn off the power. Then disconnect the power cord and contact your nearest authorized Yamaha dealer or service center.

Problem	Cause	Action	See page
Pressing the POWER button does not turn on the power.	The power plug has been unplugged from this unit's AC IN jack or from the AC outlet, or it is not firmly plugged in.	Firmly plug the power plug into this unit's AC IN jack and into an AC outlet.	15
The platter does not rotate.	The belt is not correctly positioned on the sub platter and pulley, or the belt has come off.	Attach the belt correctly to the sub platter and the pulley.	13
	The POWER button is not on.	Turn the POWER button on.	19
No sound.	The head shell is not correctly attached to the tonearm.	Attach the head shell to the tonearm correctly.	14
	The shell lead wires are not correctly connected to the cartridge.	Connect the shell lead wires to the cartridge correctly.	14
	The unit is not connected to the amplifier properly.	Connect the unit to the amplifier properly.	15, 16
	The mute setting of the amplifier is on.	Turn off the mute setting of the amplifier.	—
Volume is too weak or too loud.	The cartridge setting of the amplifier or phono equalizer is incorrect.	Set the cartridge setting of the amplifier or phono equalizer correctly for the type of cartridge that you are using (MM or MC).	—
Something is wrong with the left/right sound balance.	The turntable is tilted.	Place the turntable on a level surface.	—
The pitch of the music being played sounds too high or too low.	The speed setting is incorrect.	Set the speed setting correctly. This unit does not support SP records (78 rpm).	20

Problem	Cause	Action	See page
Hum is audible.	The unit is not connected to the amplifier properly.	Connect the unit to the amplifier properly.	15, 16
	The head shell is not firmly secured to the tonearm.	Use the lock nut to firmly secure the head shell to the tonearm.	14
	The cartridge is not correctly secured to the head shell.	Secure the cartridge to the head shell correctly.	14
Skips occur. Noise occurs. The sound is distorted.	The stylus pressure is not adjusted correctly.	Adjust the stylus pressure properly.	17
	The record is scratched or warped.	Do not use scratched or warped records.	—
	The record is dirty.	Use a commercially-available record cleaner to clean the record.	22
	The record is statically charged.	Use an anti-static brush to remove the static charge.	—
	The stylus is dirty.	Remove the dirt from the stylus.	22
	The stylus is worn down.	Replace the stylus.	—
	The unit is placed in a location that is subject to vibration.	Place the unit on a level surface that is not subject to vibration.	—
Feedback occurs.	The unit is too close to the speakers.	Locate the unit farther away from the speakers.	—
	The sound volume is too high.	Adjust the volume of the amplifier.	—

Appendix

Specifications

Platter section

Phono motor section	
Drive method	Belt drive
Motor	AC synchronous motor
Motor drive	Crystal sine wave
Rotation speed	33 1/3 rpm, 45 rpm
Rotation speed variation	±0.1%
Rotation speed adjustment	
..... Built-in crystal osc./strobe light	
Adjustment step	0.1%
Adjustment range	±1.5%
Wow and flutter	0.04% or less (W.R.M.S.)
Platter	Aluminium Diameter 350 mm
Sub platter	Brass Diameter 143 mm

Tonearm section

Type	Static balance straight tonearm
Effective arm length	223 mm
Overhang	-17 mm
Acceptable cartridge weight (including head shell)	
..... 16–23.5 g	(Counter weight: small)
..... 23–34 g	(Counter weight: large)
Head shell weight	14 g (including wires)

Audio section

Output jack	
Analog audio	PHONO OUT (RCA) × 1 PHONO OUT (XLR) × 1

General

Power supply	
[Models for U.S.A. and Canada]	AC 120 V, 60 Hz
[Model for China]	AC 220 V, 50 Hz
[Model for Korea]	AC 220 V, 60 Hz
[Model for Australia]	AC 240 V, 50 Hz
[Models for U.K. and Europe]	AC 230 V, 50 Hz
[Model for Asia]	AC 220–240 V, 50/60 Hz
[Models for Central and South America, and Taiwan]	AC 110 V, 60 Hz
Power consumption	
While playing	15 W
While stopped	0.4 W
Weight	26.8 kg
Dimensions (W × H × D)	546 × 223 × 411 mm (including feet and protrusions)
Allowable operating temperature	10–35 °C

- The values listed above were measured at an ambient temperature of 20 °C.
- The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

Yamaha Global Site
<https://www.yamaha.com/>
Yamaha Downloads
<https://download.yamaha.com/>

Manual Development Group
© 2019 Yamaha Corporation
Published 10/2021
IPOD-D0

YAMAHA CORPORATION

10-1 Nakazawa-cho, Naka-ku, Hamamatsu, 430-8650 Japan

AV21-0109