



Integrated Amplifier

A-U671

OWNER'S MANUAL



CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this sound system in a well ventilated, cool, dry, clean place - away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. For proper ventilation, allow the following minimum clearances.
Top: 10 cm (4 in), Rear: 10 cm (4 in), Sides: 10 cm (4 in)
- Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
 - Other components, as they may cause damage and/or discoloration on the surface of this unit.
 - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
 - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- Do not plug in this unit to a wall outlet until all connections are complete.
- Do not operate this unit upside-down. It may overheat, possibly causing damage.
- Do not use force on switches, knobs and/or cords.
- When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or this unit during a lightning storm.
- Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- Be sure to refer to the "Troubleshooting" section for common operating errors before concluding that this unit is faulty.
- Before moving this unit, press ϕ to set it to standby mode and disconnect the AC power plug from the wall outlet.
- Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.
- When using this unit for a long time, this unit may become warm. Turn the power off, then leave this unit alone for cooling.
- Install this unit near the AC outlet and where the AC power plug can be reached easily.

- The batteries shall not be exposed to excessive heat such as sunshine, fire or the like. When you dispose of batteries, follow your regional regulations.
- Excessive sound pressure from earphones and headphones can cause hearing loss.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off by ϕ . This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

■ Notes on remote controls and batteries

- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.
- Do not leave or store the remote control in the following conditions:
 - places of high humidity, such as near a bath
 - places of high temperatures, such as near a heater or stove
 - places of extremely low temperatures
 - dusty places
- Insert the battery according to the polarity markings (+ and -).
- Change all batteries if you notice the following conditions:
 - the operation range of the remote control narrows
 - the transmit indicator does not flash or is dim
- If the batteries run out, immediately remove them from the remote control to prevent an explosion or acid leak.
- If you find leaking batteries, discard the batteries immediately, taking care not to touch the leaked material. If the leaked material comes into contact with your skin or gets into your eyes or mouth, rinse it away immediately and consult a doctor. Clean the battery compartment thoroughly before installing new batteries.
- Do not use old batteries together with new ones. This may shorten the life of the new batteries or cause old batteries to leak.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Specification of batteries may be different even though they look the same. Danger of explosion may happen if batteries are incorrectly replaced.
- Before inserting new batteries, wipe the compartment clean.
- Dispose of batteries according to your regional regulations.
- Keep batteries away from children. If a battery is accidentally swallowed, contact your doctor immediately.
- When not planning to use the remote control for long periods of time, remove the batteries from the remote control.
- Do not charge or disassemble the supplied batteries.

The user shall not reverse engineer, decompile, alter, translate or disassemble the software used in this unit, whether in part or in whole. For corporate users, employees of the corporation itself as well as its business partners shall observe the contractual bans stipulated within this clause. If the stipulations of this clause and this contract cannot be observed, the user shall immediately discontinue using the software.

■ For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

■ Special Instructions for U.K. Model

IMPORTANT

THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL

Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Making sure that neither core is connected to the earth terminal of the three pin plug.

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



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

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Pb

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

We, Yamaha Music Europe GmbH hereby declare that this unit is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Yamaha Music Europe GmbH

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INTRODUCTION

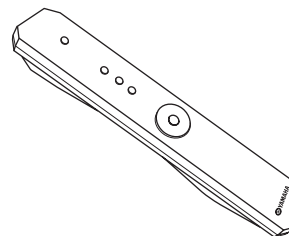
What the unit can do

- ◆ The unit is an integrated amplifier that plays back analog stereo signals with high quality sound. Combined with speakers, the unit can play back music with high audio quality.
- ◆ TREBLE (high-frequency range), BASS (low-frequency range), and BALANCE (right and left balance) can be desirably adjusted with the controls on the front panel.
- ◆ The USB DAC function allows you to play back music stored on a PC (page 11).
- ◆ Enjoy pure, high fidelity sound by using the PURE DIRECT function (page 13).
- ◆ Boost bass sounds by connecting a subwoofer (page 9).

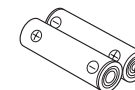
Supplied accessories

Please check that you received all of the following parts.

Remote control

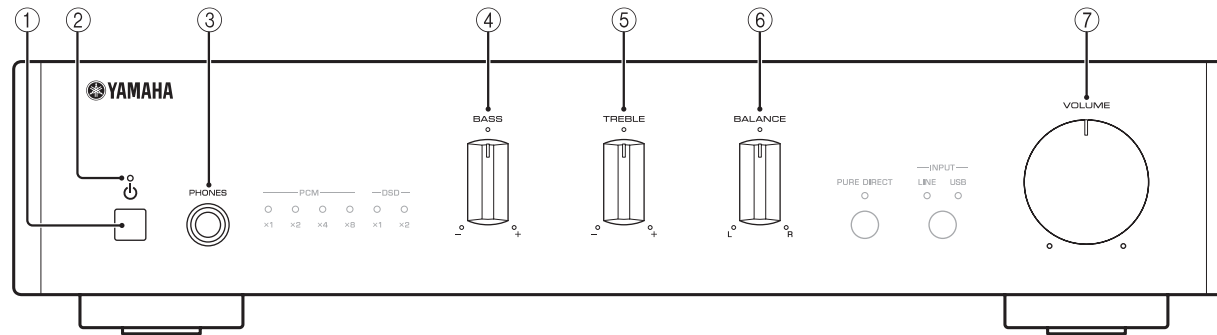


Batteries (x 2) (AA, R6, UM-3)



NAMES AND FUNCTIONS OF THE PARTS

Front panel



① **⏻ (Power) button**

Turns this unit on, or sets it to standby mode.

Notes

In standby mode, the unit consumes a small amount of power.

② **Power indicator**

Lights up when the unit is turned on.

③ **PHONES jack**

Connect your headphones.

Notes

When headphones are connected, no sound comes from the speakers or subwoofer.

④ **BASS control**

Increases or decreases the low frequency response.
Control range: -10 dB to +10 dB

⑤ **TREBLE control**

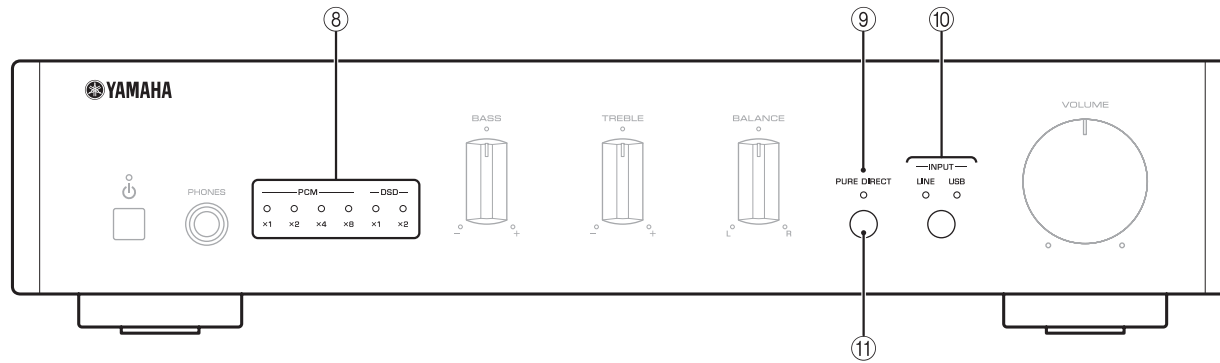
Increases or decreases the high frequency response.
Control range: -10 dB to +10 dB

⑥ **BALANCE control**

Adjusts the sound output balance of the left and right speakers to compensate for sound imbalances.

⑦ **VOLUME control**

Adjusts the volume.



⑧ USB DAC indicators

Lights up when audio signals are input to the USB jack of this unit (☞page 12).

⑨ PURE DIRECT indicator

Lights up when the PURE DIRECT function is turned on (☞page 13).

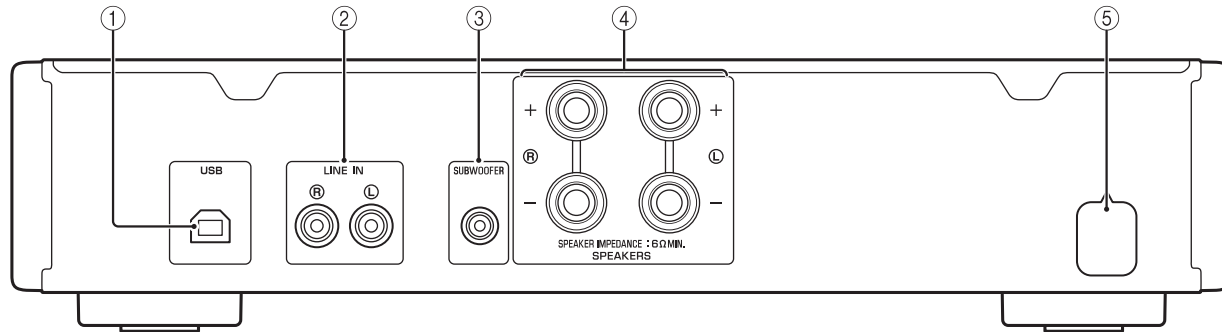
⑩ INPUT button and indicator

Each time you press the button, the input source switches to LINE or USB. The input source indicators light up when the corresponding input sources are selected. Press and hold the button to switch the PURE DIRECT function on or off.

⑪ Remote control sensor

Receives infrared signals from the remote control.

Rear panel



① **USB (Type B) jack**

Used to connect a PC (☞page 8).

② **LINE IN jacks**

Used to connect an external component (☞page 8).

③ **SUBWOOFER jack**

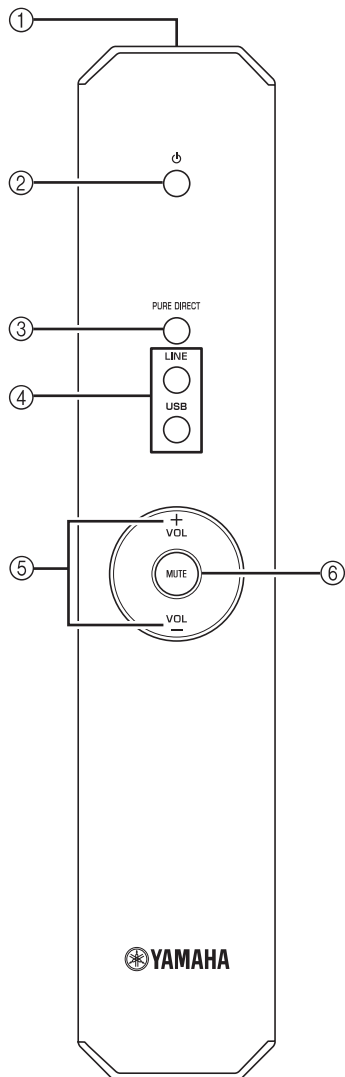
Used to connect a subwoofer with built-in amplifier (☞page 8).

④ **SPEAKERS terminals**

Used to connect speakers (☞page 8).

⑤ **Power cable**

Remote control



① Infrared signal transmitter

Sends infrared signals.

② ⏻ (Power)

Turns this unit on, or sets it to standby mode.

③ PURE DIRECT

Reproduces any input source in the purest sound possible (see page 13).

④ Input selector buttons

Selects the input source (LINE or USB) you want to listen to.

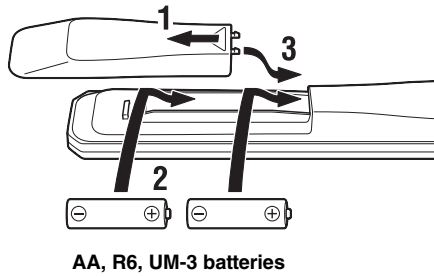
⑤ VOL +/-

Adjusts the volume.

⑥ MUTE

Reduces the current volume level by approximately 20 dB. Press again to restore the audio output to the previous volume level. Pressing the VOL +/- also cancels muting. The INPUT indicator on the front panel for the current input source blinks while the output is muted.

■ **Installing batteries**

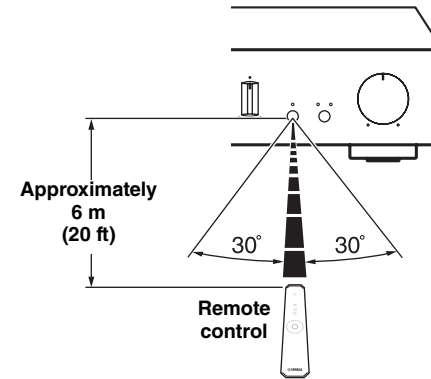


Notes

- The area between the remote control and this unit must be clear of large obstacles.
- Change all batteries if you notice the operation range of the remote control narrows.

■ **Operation range**

Point the remote control at the remote control sensor on this unit and remain within the operating range shown below.



CONNECTIONS

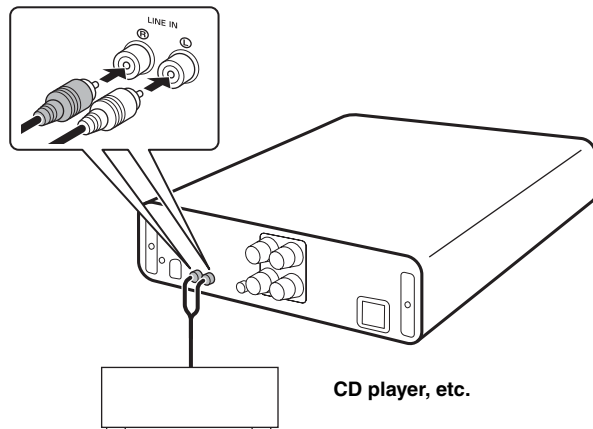
Make sure to connect L (left) to L, R (right) to R, “+” to “+” and “-” to “-.” If the connections are faulty, no sound may be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound may be unnatural and lack bass. Refer to the owner’s manual for each of your components. Make sure to use RCA type cables or a commercially available USB cables to connect audio components.

CAUTION

Do not connect this unit or other components to the main power until all connections between components are complete.

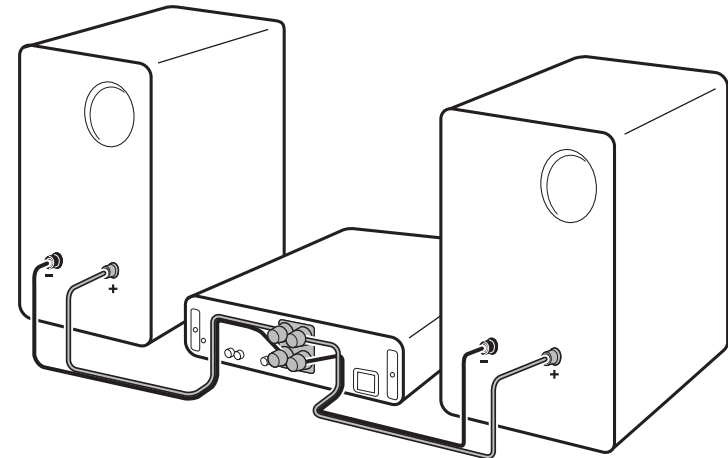
Connecting an external component

Connect the analog audio output jacks of the external component to the LINE IN jacks of the unit as shown in the figure.



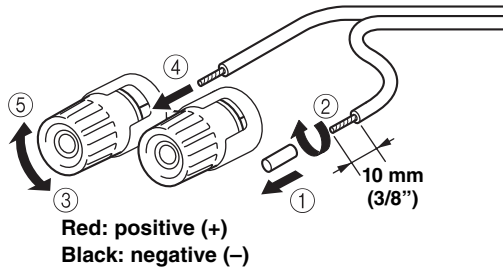
Connecting speakers

Connect the SPEAKERS terminals of the unit and the terminals of the speakers as shown in the figure.



■ Connecting speaker cables

- ① Remove approximately 10 mm (3/8") of insulation from the end of each speaker cable.
- ② Twist the bare wires of the cable firmly together.
- ③ Unscrew the knob.
- ④ Insert one bare wire into the hole in the side of each terminal.
- ⑤ Tighten the knob to secure the wire.

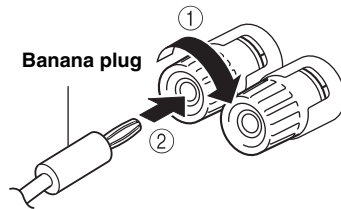


CAUTION

- Use speakers with the impedance of 6 Ω or higher.
- Do not let bare speaker wires touch each other or any metal part of this unit. This could damage this unit and/or the speakers.

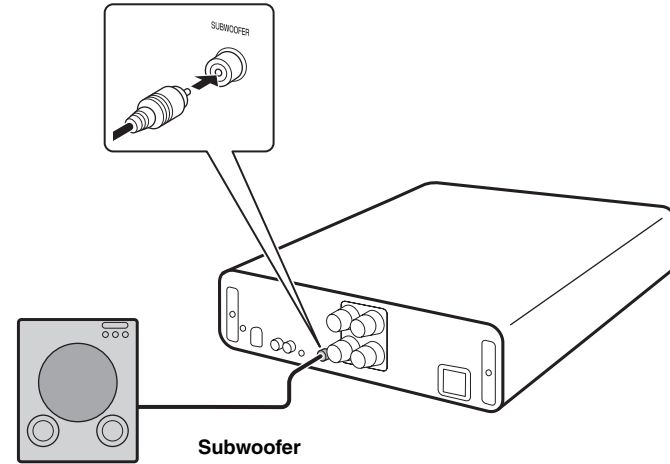
■ Using a banana plug (North America, China and Australia models only)

- ① Tighten the knob.
- ② Insert the banana plug into the end of the corresponding terminal.



Connecting a subwoofer

To use a subwoofer, connect the jack of the subwoofer to the SUBWOOFER jack of the unit as shown in the figure.

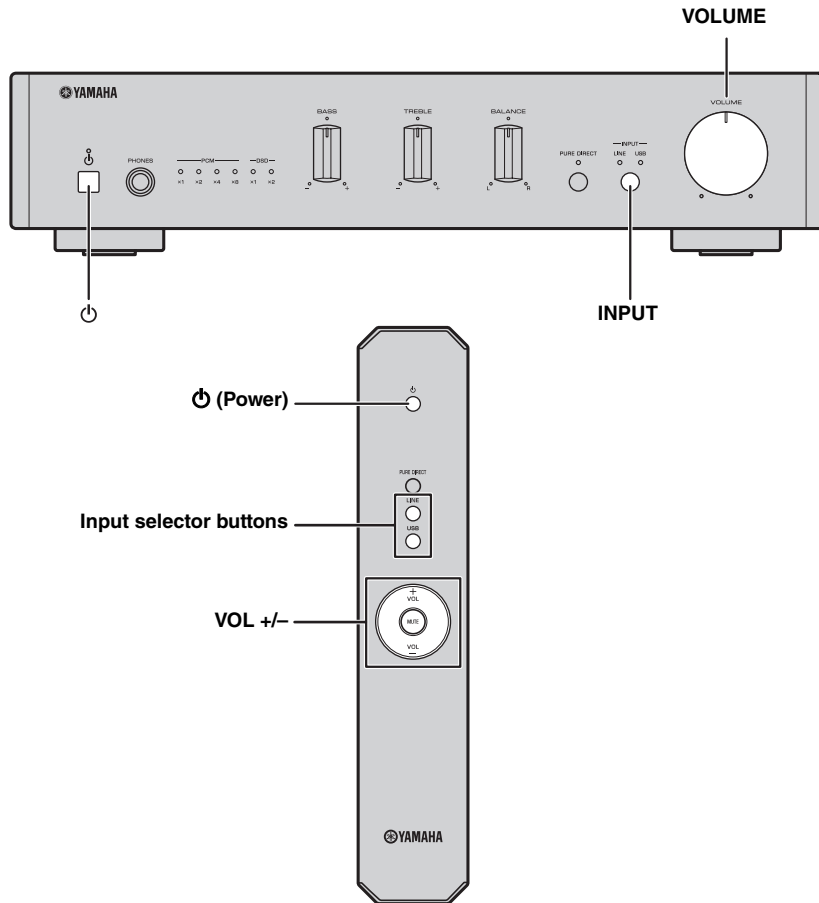


Connecting to power source

After all the connections are complete, plug in the power cable to the AC outlet.

PLAYBACK

Playing a source



- 1 Rotate the **VOLUME** control on the front panel fully counter-clockwise so as not to play sounds loud suddenly.
- 2 Press the **⏻** (power) button on the front panel (or press **⏻** (power) button on the remote control) to turn on the unit.
- 3 Press the **INPUT** button on the front panel (or press the input selector buttons on the remote control) to select **LINE** or **USB**.
The indicator for the selected input source lights up.
- 4 Play the selected input source.
- 5 Rotate the **VOLUME** control on the front panel (or press **VOL +/-** on the remote control) to adjust the volume.
- 6 When finished listening, press **⏻** (power) button on the front panel (or press **⏻** (power) button on the remote control) to set the unit to standby mode.

Auto power standby function

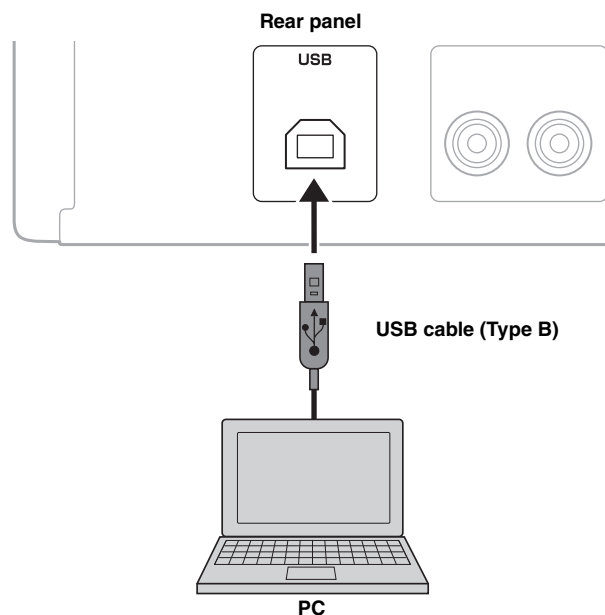
- The auto power standby function will be activated as follows (default setting).
 - The unit turn off automatically if no operation has been performed for more than 8 hours.

Activating/deactivating the auto power standby function

- 1 While pressing and holding **⏻** (power) on the unit, plug in the power cable to the AC outlet.
 - 2 Keep pressing **⏻** (power).
- The auto power standby function switches and the power indicator blink as follows:
 - Auto power standby function is activated: blink twice
 - Auto power standby function is deactivated: blink once

PLAYING BACK MUSIC STORED ON A PC (USB DAC FUNCTION)

When a PC is connected to the USB jack of the unit, the unit works as a USB DAC and can play back songs stored on the PC.



■ Supported operating systems

The USB connection is available for PCs with the following operating systems:

For Windows: Windows 7 (32/64bit) / Windows 8 (32/64bit) / Windows 8.1 (32/64bit)

For Mac: OS X 10.6.4 or later

Notes

- Operations with other operating systems are not guaranteed.
- Operations may be disabled even with the above-mentioned operating systems, depending on the configuration or environment of the PC.

■ Installing the dedicated driver

Before connecting a PC to this unit, install the dedicated driver on the PC. The dedicated driver is available only for Windows. For Mac, the standard driver of Mac OS is available for setting.

- 1 Access the following URL to download the dedicated “Yamaha HiFi USB Driver,” and unzip and execute the file.**

Website for downloading the dedicated driver
URL: <http://download.yamaha.com/>

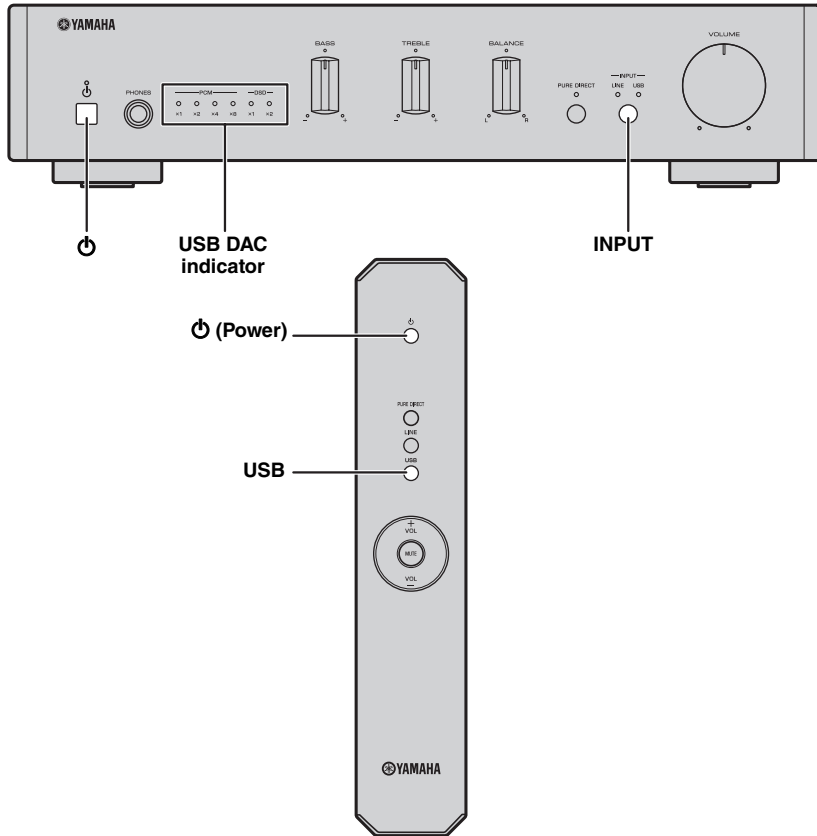
- 2 Install the downloaded “Yamaha HiFi USB Driver” to your PC.**
For details, refer to the Installation Guide supplied with the downloaded driver.

- 3 When installation is complete, quit all running applications.**

Notes

- Operations may not be executed correctly if the PC is connected to this unit before the driver is installed.
- The “Yamaha HiFi USB Driver” is subject to change without prior notice. For details and the latest information, refer to the download page for the driver.

■ Playing back music stored on a PC



1 Connect the PC to the unit with a USB cable.

2 Turn on the PC.

3 Press the **⏻** (power) button on the front panel (or press **⏻** (power) button on the remote control) to turn on the unit.

4 Press the **INPUT** button on the front panel (or press **USB** on the remote control) to select **USB**.

5 Set the audio output destination of the PC to “Yamaha A-U670/A-U671.”

With Windows OS:

Control Panel -> Hardware and Sound -> Sound -> [Playback] tab

With Mac OS:

System Preferences -> Sound -> [Output] tab

The setting may vary, depending on the operating systems. For details, consult the manufacturer of your PC.

6 Operate the PC to start playback of music files.

When the music signal is input from the PC to the unit, the USB DAC indicator on the front panel lights up in accordance with the sampling frequency of the music being played. Sampling frequencies available for the unit are as follows:

	Indicator	Frequency
PCM	×1	44.1/48 kHz
	×2	88.2/96 kHz
	×4	176.4/192 kHz
	×8	352.8/384 kHz
DSD	×1	2.8224 MHz
	×2	5.6448 MHz

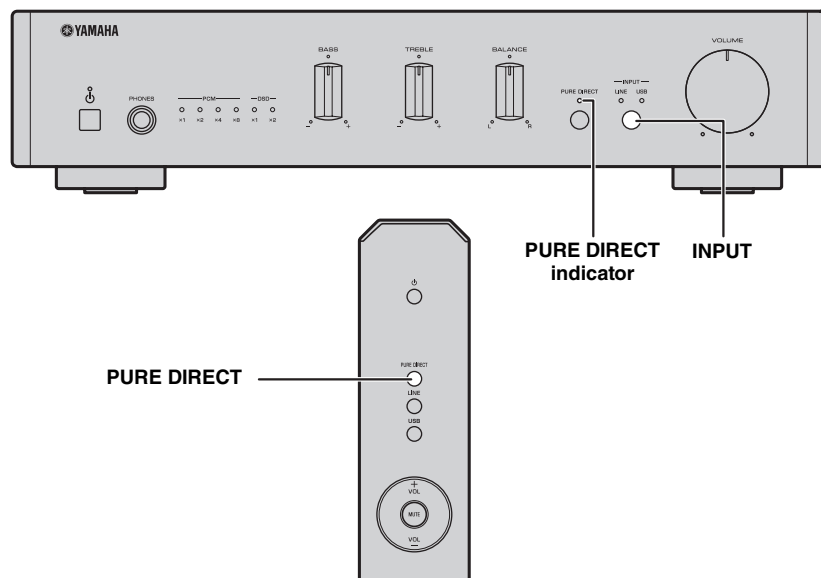
■ Adjusting the sound volume

To obtain higher sound quality, set the sound volume at the PC to the maximum, and gradually increase the volume at this unit from the minimum to your desired level.

Notes

- Do not disconnect the USB cable, turn off the unit, or change the input while playback on a PC connected via the USB cable is in progress. Doing so may cause a malfunction.
- To mute operation sounds of the PC during music playback, change the setting on the PC.
- If music files cannot be played correctly, restart the computer and perform the mentioned procedure again.
- The music files stored on a PC cannot be controlled from this unit. Operate them on the PC.

ADJUSTING TO THE DESIRED SOUND



■ Reproducing pure, high fidelity sound (PURE DIRECT)

With the PURE DIRECT function on, the BASS, TREBLE, and BALANCE circuits are bypassed to reduce noises. Therefore, in all input sources, you can enjoy music playback in straight and high quality sound.

Hold down the INPUT button on the front panel (or press the PURE DIRECT button on the remote control) to switch the PURE DIRECT function on or off.

The PURE DIRECT indicator lights up when this function is turned on.

Notes

The BASS, TREBLE, and BALANCE controls do not function while the PURE DIRECT function is turned on.

TROUBLESHOOTING

Refer to the chart below if this unit does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off this unit, disconnect the power cable, and then contact the nearest authorized Yamaha dealer or service center.

Problem	Cause	Solution	See page
This unit fails to turn on.	The power cable is not connected or the plug is not completely inserted.	Connect the power cable firmly.	9
	The protection circuitry has been activated because of a short circuit, etc.	Check that the speaker wires are not touching each other and then turn the power of this unit back on.	9
	There is a problem with the internal circuitries of this unit.	Disconnect the power cable and contact the nearest authorized Yamaha dealer or service center.	-
	A speaker with a low impedance is connected.	Use speaker(s) with proper speaker impedance (6 Ω or higher).	9
This unit turns off suddenly and the power indicator turns off.	The speaker wires are touching each other or shorting out against the rear panel.	Connect the speaker cables properly and turn the power on again. Confirm normal sound output from speakers after the unit is turned on.	9
	The speaker is malfunctioning.	Replace the speaker set and turn the power on again. Confirm normal sound output from speakers after the unit is turned on.	-
	The protection circuitry has been activated because of excessive input or excessive volume level.	Rotate the VOLUME control on the front panel to decrease the volume level and then turn the power on again.	-
	The protection circuitry has been activated due to excessive internal temperature.	Allow about 30 minutes for the temperature inside this unit to decrease, rotate the VOLUME control on the front panel to lower the volume and then turn the power on again. Set the unit in a place where heat can readily dissipate from the unit.	-
	This unit has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Turn off this unit, disconnect the power cable, plug it back in after 30 seconds, then use the unit normally.	-
	There is a problem with the internal circuitries of this unit.	Disconnect the power cable and contact the nearest authorized Yamaha dealer or service center.	-

Problem	Cause	Solution	See page
No sound.	Headphones are connected. (When headphones are connected, no sound comes from the speakers or subwoofer.)	Disconnect headphones when you use the speakers or subwoofer.	-
	Sound is muted.	Turn off the mute.	6
	Incorrect cable connections.	Connect the stereo cable for audio units and the speaker wires properly. If the problem persists, the cables may be defective.	8
	Playback has been stopped on the connected component.	Turn the component on and start playback.	10
	No appropriate input source has been selected.	Select an appropriate input source with the INPUT button on the front panel (or the input selector buttons on the remote control).	10
	The driver is not installed in the PC connected with the unit via USB.	Before connecting a PC to this unit, install the driver on the PC.	11
	The volume of the unit is set to the minimum.	Turn up the volume with the VOLUME control so that you can hear sound.	10
The unit cannot be turned off.	The internal microprocessor is frozen due to an external electronic shock (lightning, excessive static electricity, etc.) or decrease in the power supply voltage.	Press the power button on the front panel of the unit for 10 seconds or more to restart the unit (If the problem persists, unplug the power cable and after about 30 seconds, then plug it back in again).	-
Only the speaker on one side can be heard.	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	8
	Incorrect setting for the BALANCE control.	Set the BALANCE control to the appropriate position.	3
There is a lack of bass and no ambience.	(When a subwoofer is connected.) The subwoofer is not properly connected.	Connect the cables properly. If the problem persists, the setting for the subwoofer may be incorrect.	9
	The + and – wires are connected in reverse at the amplifier or the speakers.	Connect the speaker wires to the correct + and – phase.	9
	Incorrect setting for the BASS control.	Set the BASS control to the appropriate position.	3
A “humming” sound can be heard.	Incorrect cable connections.	Connect the audio plugs firmly. If the problem persists, the cables may be defective.	8
The sound level is low.	The volume of the unit is set to a low level.	Turn up the volume with the VOLUME control so that you can hear sound.	10
	The volume of the PC connected with the unit via USB is set to a low level.	Turn up the volume of the PC.	-
The BASS, TREBLE, and BALANCE controls does not work.	The PURE DIRECT function is turned on.	Turn off the PURE DIRECT function.	13
The connected PC does not recognize this unit.	The operating system of the PC is not supported.	Use a PC with an operation-guaranteed operating system.	11
	Improper USB cable connection.	Connect the USB cable properly.	11
	The output of the PC or application is muted.	Cancel the sound muting of the PC or application.	-

Problem	Cause	Solution	See page
Noisy playback.	Another application is launched on the PC while a music file is being played. (If another application is launched while a music file is being played, sound may be momentarily lost or noise may be generated.)	Do not launch other applications during playback.	-
The sound is interrupted.	Another application is launched on the PC while a music file is being played. (If another application is launched while a music file is being played, sound may be momentarily lost or noise may be generated.)	Do not launch other applications during playback.	-
Music files cannot be played.	The music data are not properly reproduced, because this unit is connected to the PC or the input of this unit is switched to USB while the music application is running on the PC.	Connect this unit to the PC and set the input of the unit to USB in advance. Then launch the music application and start playback.	11
	The dedicated “Yamaha HiFi USB Driver” has not been installed correctly.	Install the “Yamaha HiFi USB Driver” again by following the correct procedure.	11
	The audio output destination of the computer is not set to “Yamaha A-U670/A-U671.”	Set the audio output destination of the computer to “Yamaha A-U670/A-U671.”	12

SPECIFICATIONS

AUDIO SECTION

■ LINE IN

- Input jack RCA jack

■ USB

- Input jack USB (Type B), supported USB2.0
- Supported sampling frequencies 384/352.8/192/176.4/96/88.2/48/44.1 kHz
- PCM word depths 32/24/16 bits
- DSD 2.8224/5.6448 MHz

■ SPEAKERS

- Maximum output power (6 Ω , 1 kHz, 10% THD) 70 W + 70 W
- Frequency response (10 Hz to 40 kHz) 0 \pm 3 dB
- Total harmonic distortion (30 W/6 Ω , 1 kHz) 0.05% or less

■ PHONES

- Output level/Output impedance (Input 1 kHz, 230 mV, 32 Ω terminated) 500 mV/24 Ω

■ SUBWOOFER

- Output level/Output impedance (Input 1 kHz, 230 mV) 2.0 V/1 k Ω

GENERAL

- Power supply AC 220 to 240 V, 50/60 Hz
- Power consumption 30 W
- Standby power consumption 0.5 W
- Dimensions (W \times H \times D) 314 \times 70 \times 342 mm (12-3/8" \times 2-3/4" \times 13-1/2")
- Weight 3.3 kg (7.3 lbs.)

Specifications are subject to change without notice.

Important Notice: Guarantee Information for customers in EEA* and Switzerland

For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country.
* EEA: European Economic Area

<http://europe.yamaha.com/warranty/>

