



Network CD Receiver

CRX-N470

CRX-N470D

QUICK MANUAL

musicCast

GRANDPIANOCRAFT

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 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: 6 cm (2.5 in), Sides: 6 cm (2.5 in)
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 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.
- 5 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.
- 6 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.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 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.
- 13 To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or this unit during a lightning storm.
- 14 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.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- 16 Be sure to refer to the “Troubleshooting” section for common operating errors before concluding that this unit is faulty.
- 17 Before moving this unit, press ϕ to set it to standby mode and disconnect the AC power plug from the wall outlet.

- 18 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.
- 19 When using this unit for a long time, this unit may become warm. Turn the power off, then leave this unit alone for cooling.
- 20 Install this unit near the AC outlet and where the AC power plug can be reached easily.
- 21 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.
- 22 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.

Radio waves may affect electro-medical devices. Do not use this unit near medical devices or inside medical facilities.

Do not use this unit within 22 cm (9 inches) of persons with a heart pacemaker implant or defibrillator implant.

■ 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 condition:
 - the operation range of the remote control narrows
- 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.

LASER SAFETY

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

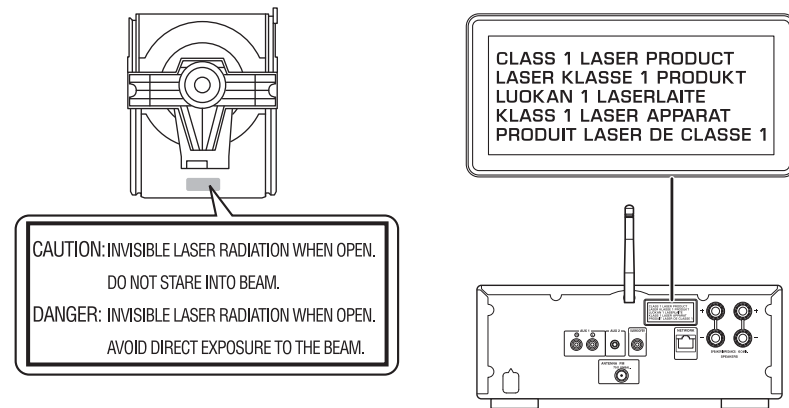
DANGER

This unit emits visible laser radiation when open. Avoid direct eye exposure to beam. When this unit is plugged into the wall outlet, do not place your eyes close to the opening of the disc tray and other openings to look into inside.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



■ 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.

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.



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.

Pb

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 EU Battery 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

Siemensstr. 22-34 25462 Rellingen, Germany

Tel: +49-4101-303-0



Handling USB devices

- Yamaha is not liable for any loss or corruption of data in USB devices that are used. It is recommended that you make backups of data for restoring in the event of data loss.
- Some USB devices may not function properly.

Handling Bluetooth communications

- The 2.4 GHz band used by *Bluetooth* compatible devices is a radio band shared by many types of equipment. While *Bluetooth* compatible devices use a technology minimizing the influence of other components using the same radio band, such influence may reduce the speed or distance of communications and in some cases interrupt communications.
- The speed of signal transfer and the distance at which communication is possible differs according to the distance between the communicating devices, the presence of obstacles, radio wave conditions and the type of equipment.
- Yamaha does not guarantee all wireless connections between this unit and devices compatible with *Bluetooth* function.

Bluetooth

- *Bluetooth* is a technology for wireless communication between devices within an area of about 10 meters (33 ft) employing the 2.4 GHz frequency band, a band which can be used without a license.

Specifications

General

Power supply/Frequency:	AC 100 to 240 V, 50/60 Hz
Power consumption:	25 W
Standby power consumption: (Network standby off/on)	Network standby off : 0.4 W Network standby on Wired (Ethernet): 1.8 W Wireless (Wi-Fi/Wireless Direct/Bluetooth): 1.9 W/1.9 W/1.7 W

Network

Interface:	100Base-TX/10Base-T
Internet radio:	vTuner supported
PC client function:	DLNA Ver. 1.5 supported (DMP/DMR function)

Wi-Fi

Wireless Network Standards:	IEEE802.11 b/g/n
Radio Frequency:	2.4 GHz
Available Security Methods:	WEP, WPA2-PSK (AES), Mixed Mode

Supported file format (Network, USB)

MP3, WMA, MPEG4 AAC, WAV, FLAC, ALAC, AIFF

Bluetooth

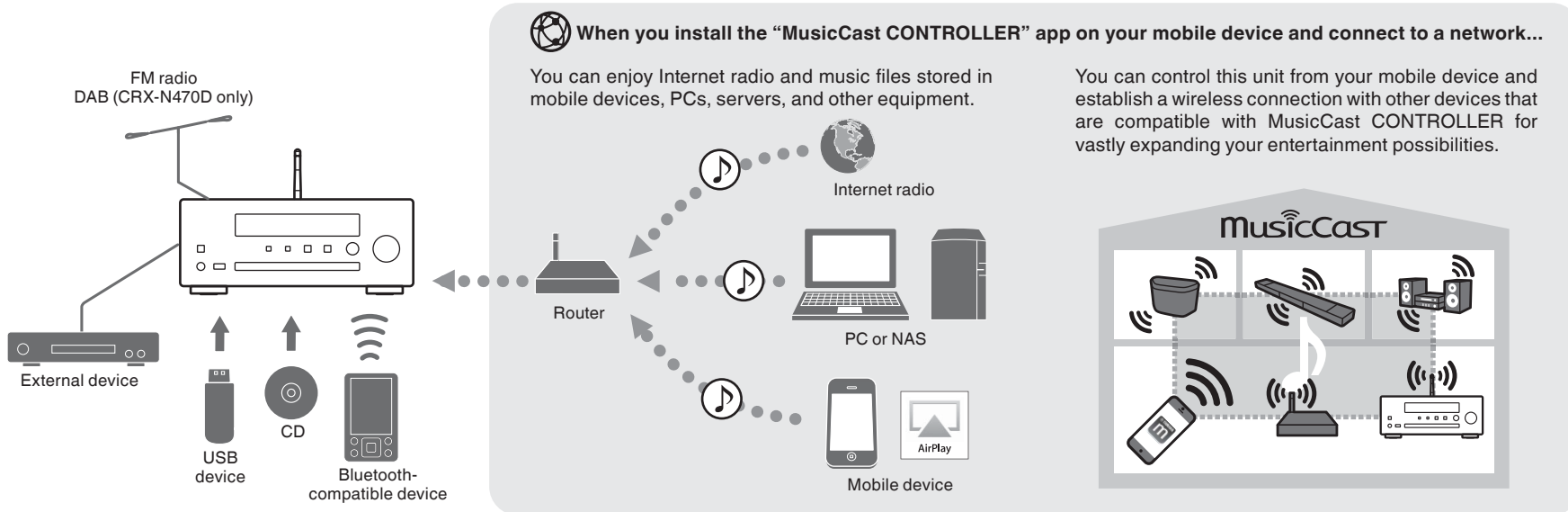
<i>Bluetooth</i> version:	Ver. 2.1+EDR
Supported codecs:	SBC, AAC
Wireless output:	<i>Bluetooth</i> Class 2


CD

Laser:	Type	Semiconductor laser GaAs/GaAlAs
	Wave length	790 nm
	Output power	7 mW
Audio format:		Audio CD, MP3, WMA

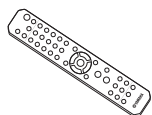
PRODUCT FEATURES

Carrying on the proud tradition of Yamaha Hi-Fi audio, this unit enables you to enjoy high-quality audio for a wide range of content while being compact in size.



 : This icon appears for features that require a network connection.

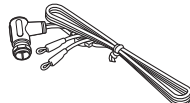
◆ Accessories



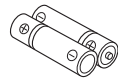
Remote control



FM antenna
(for CRX-N470)

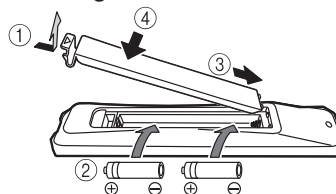


DAB/FM antenna
(for CRX-N470D)



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

Installing batteries

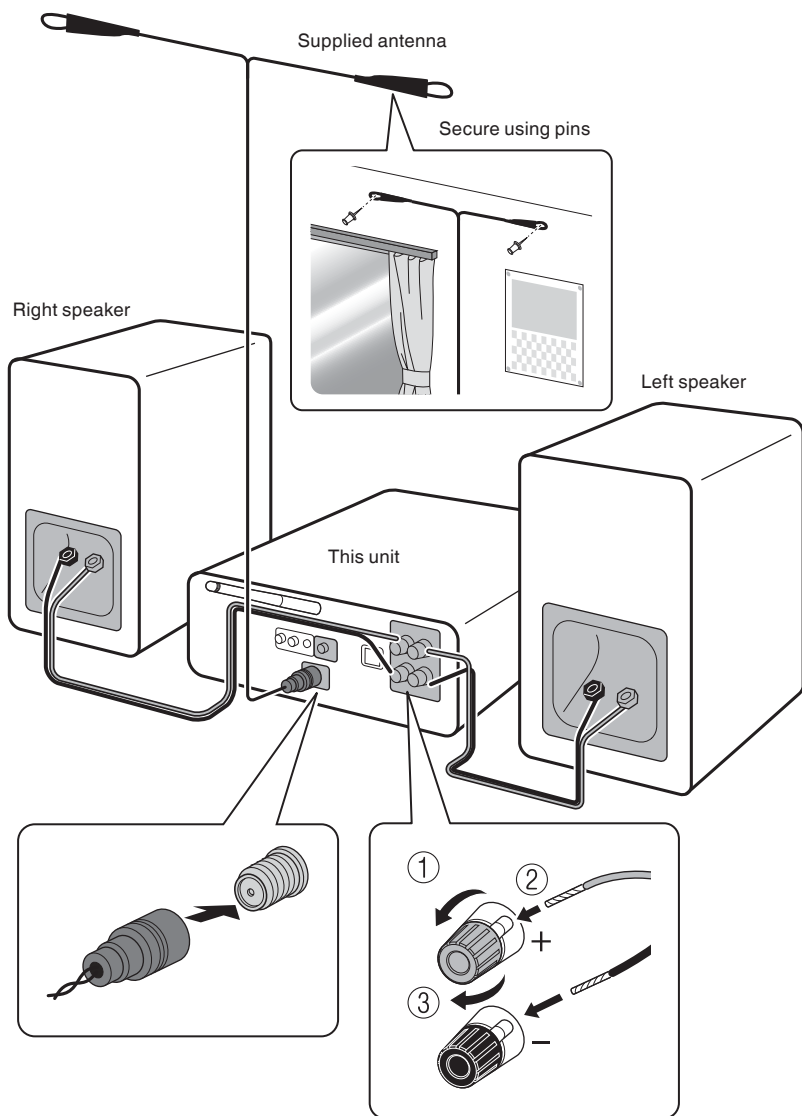


◆ About this manual

- This manual provides information on the procedures for basic setup, from connecting the components to playback of music sources. For more detailed information, please refer to the Owner's Manual available in PDF format. It can be downloaded from our website.
<http://download.yamaha.com/>

- iOS and Android mobile devices are collectively referred to as “mobile devices.”
- “Note” is used to indicate tips for usage and supplementary information.
- Names in square brackets [] indicate the names of buttons and jacks on this unit.

PREPARATION



◆ Connecting speakers

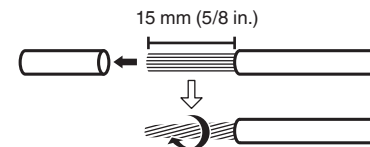
Speakers and speaker cables are not included with this unit. If connecting a subwoofer, connect one with a built-in amplifier to the [SUBWOOFER] on the rear panel.

⚠ CAUTION Use speakers with an impedance of at least 6 Ω.

1 Remove the insulation from the ends of the speaker cables to expose the bare wires.

2 Connect the speakers to the unit as shown in the figure at left.

Ensure that the left and right speakers are connected to the left and right (L, R) jacks respectively, and that the polarity of the wires is correct (red: +, black: -).



⚠ CAUTION Be careful not to allow the right and left bare speaker wires to touch each other or other metal parts. Doing so could damage this unit and the speakers.


◆ Connecting the antenna

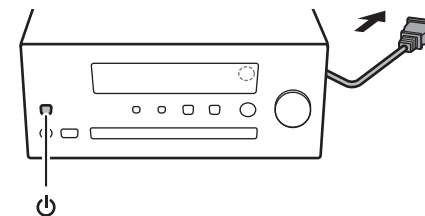
1 Connect the supplied antenna as shown in the figure at left.

2 Secure it with pins or other supports in the location with best reception.

◆ Turning on the power

After all the connections are completed, turn on the power.

Plug the power cable into a power outlet, and press .



Note

- When the power of the unit is turned on for the first time after purchase, the network settings preparation message (Share WiFi Set) may appear, but this message disappears as soon as any operations are performed.
- For details on the network settings preparation message, see “Turning on the power” in the Owner’s Manual.

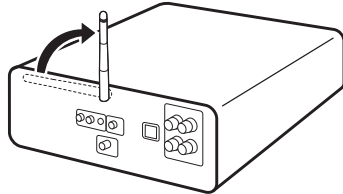
CONNECTING TO THE NETWORK

Connect this unit to the same home network as your mobile devices.

Perform the preparation shown below.

Connecting to a wireless network

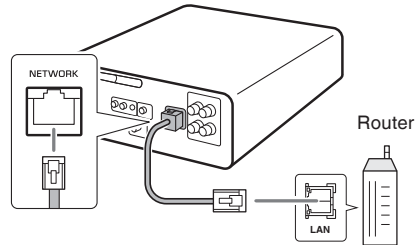
Raise the wireless antenna on the rear panel.



CAUTION Do not apply excessive force to the wireless antenna.

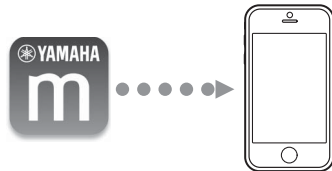
Connecting to a wired network

Connect using a commercially available network cable (CAT-5 or higher straight cable).



For more information about MusicCast CONTROLLER, refer to the following site:
<http://www.yamaha.com/musiccast/>

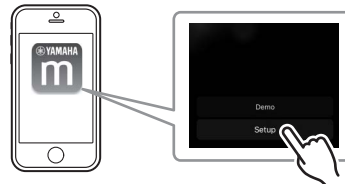
1



Install the “MusicCast CONTROLLER” app on your mobile device.

This app can be downloaded for free from the App Store or Google Play.

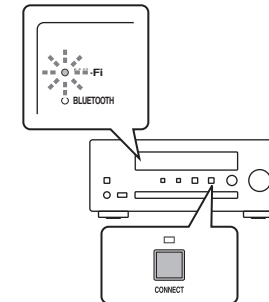
2



Start “MusicCast CONTROLLER” and tap “Setup”.

Follow the app’s instructions.

3



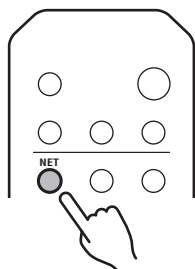
Long press [CONNECT] for about 5 seconds.
The Wi-Fi indicator starts flashing. Configure the settings by following the app’s instructions.

LISTENING TO MUSIC

◆ NET

This enables you to listen to Internet radio or play music files stored on your PC or server over your network connection. To play back music files stored on your PC or server, music file settings must be shared with this unit. For details, see “Playing back songs in the computer” or “Listening to the Internet radio” in the Owner’s Manual.

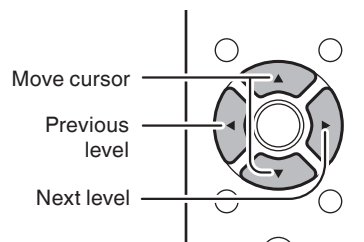
1



Press [NET] repeatedly to select the source.

- To listen to Internet radio: [NetRadio]
- To play back music files: [Server]

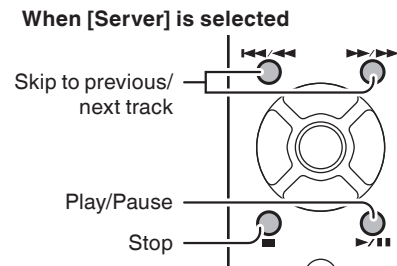
2



Browse and select the broadcast station or music file that you want to play.

When [NetRadio] is selected, the radio audio is played.

3



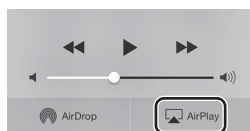
Play the music file.

- Note**
- If the file cannot be played, check the network connection and router settings, and connect this unit to the same network.

◆ AirPlay

Make sure that the unit and your PC or iPhone are connected to the same router.

1



iPhone
(example)



iTunes
(example)

Display the playback screen on the iPhone or start iTunes on the PC.

If the iPhone/iTunes recognizes the unit, the AirPlay icon () appears.

2



iPhone
(example)



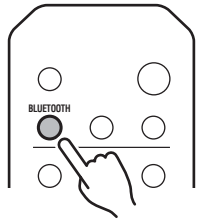
iTunes
(example)

Tap or click and select the unit’s name.

The source automatically switches to [AirPlay]. Play back songs with the iPhone/iTunes.

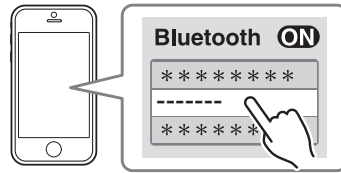
◆ BLUETOOTH

1



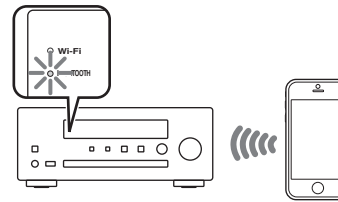
Press [BLUETOOTH].

2



Select this unit in the Bluetooth settings of your device.

3



Play back music using your Bluetooth device.
Once connected, the Bluetooth indicator lights up.

Disconnecting a Bluetooth device

A Bluetooth device can be disconnected using the methods below.

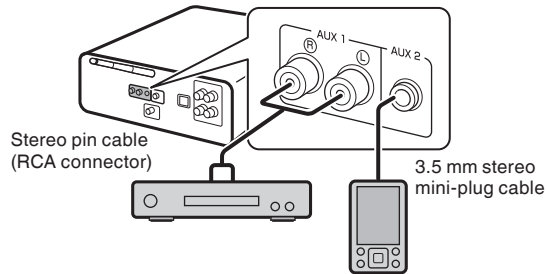
- Perform a disconnect operation using the Bluetooth device.
- Switch the unit to another source or set its power to standby.

Note

- If you are asked for a passkey, enter the number "0000."
- If a Bluetooth device that was previously connected is near this unit, press [BLUETOOTH] to search for the device and connect to it. (The Bluetooth setting of the Bluetooth device must be set to ON.)

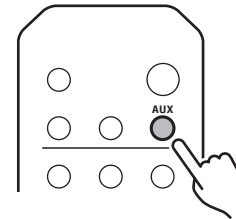
◆ AUX

CAUTION Before connecting, unplug the power cable from the outlet, and lower the volume level on both this unit and the external device.



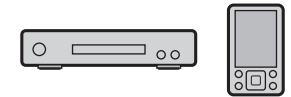
Connect the external device to this unit before switching to the AUX input source.
The cables are not included with this unit.

1



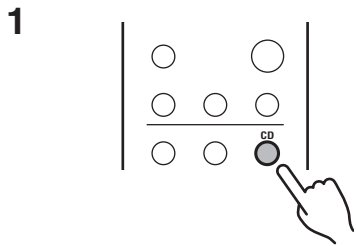
Press [AUX].

2

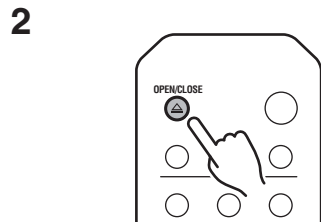


Play back the connected external device.

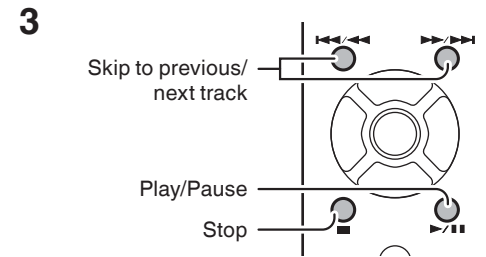
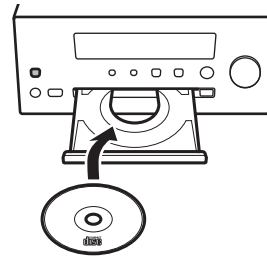
◆ CD



Press [CD].

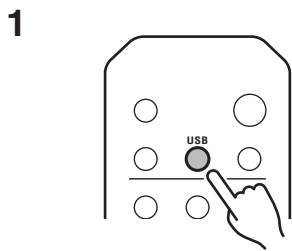


Insert a CD.

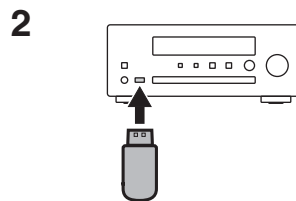


Play the track.

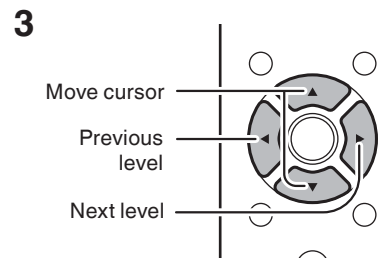
◆ USB



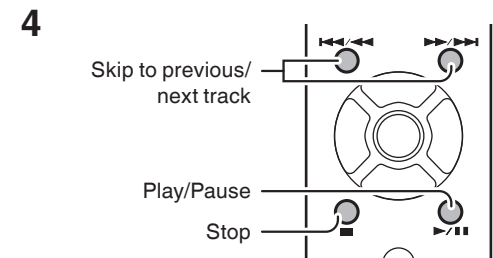
Press [USB].



Connect a USB device to the USB port.



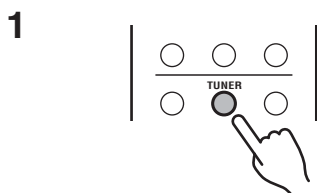
Browse and select a track.



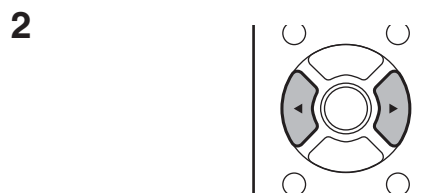
Play the track.

Note • Stop playback before removing the USB device.

◆ TUNER



Press [TUNER].



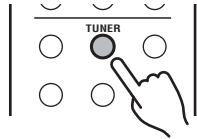
Press and hold ◀/▶.

Automatic station selection begins. Selection stops when a broadcast station is received, and the radio audio is played.

Note • If the signal reception is poor, press ◀/▶ repeatedly to select the station manually.

◆ Listening to DAB stations (CRX-N470D only)

Initial scan



InitScan
Completed 3

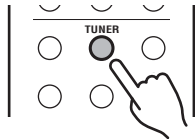
When scanning is complete, the number of receivable DAB stations is shown on the front panel display momentarily.

Press [TUNER] repeatedly to select [DAB].

Initial scan starts automatically when you select [DAB] for the first time.

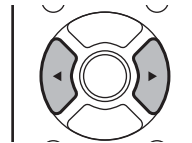
Tuning in DAB stations

1



Press [TUNER] repeatedly to select [DAB].

2



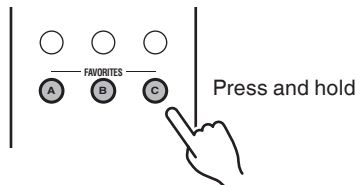
Press ◀/▶ to select a DAB station.

◆ Presetting to FAVORITES

Preset your favorite tracks or stations to the FAVORITES buttons (A to C) to easily play them back again in the future.

1

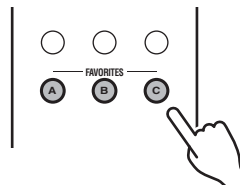
Presetting



Press and hold one of the FAVORITES buttons during playback to preset the content to that button.

2

Playback



Press the FAVORITES button to which the track or station is preset.

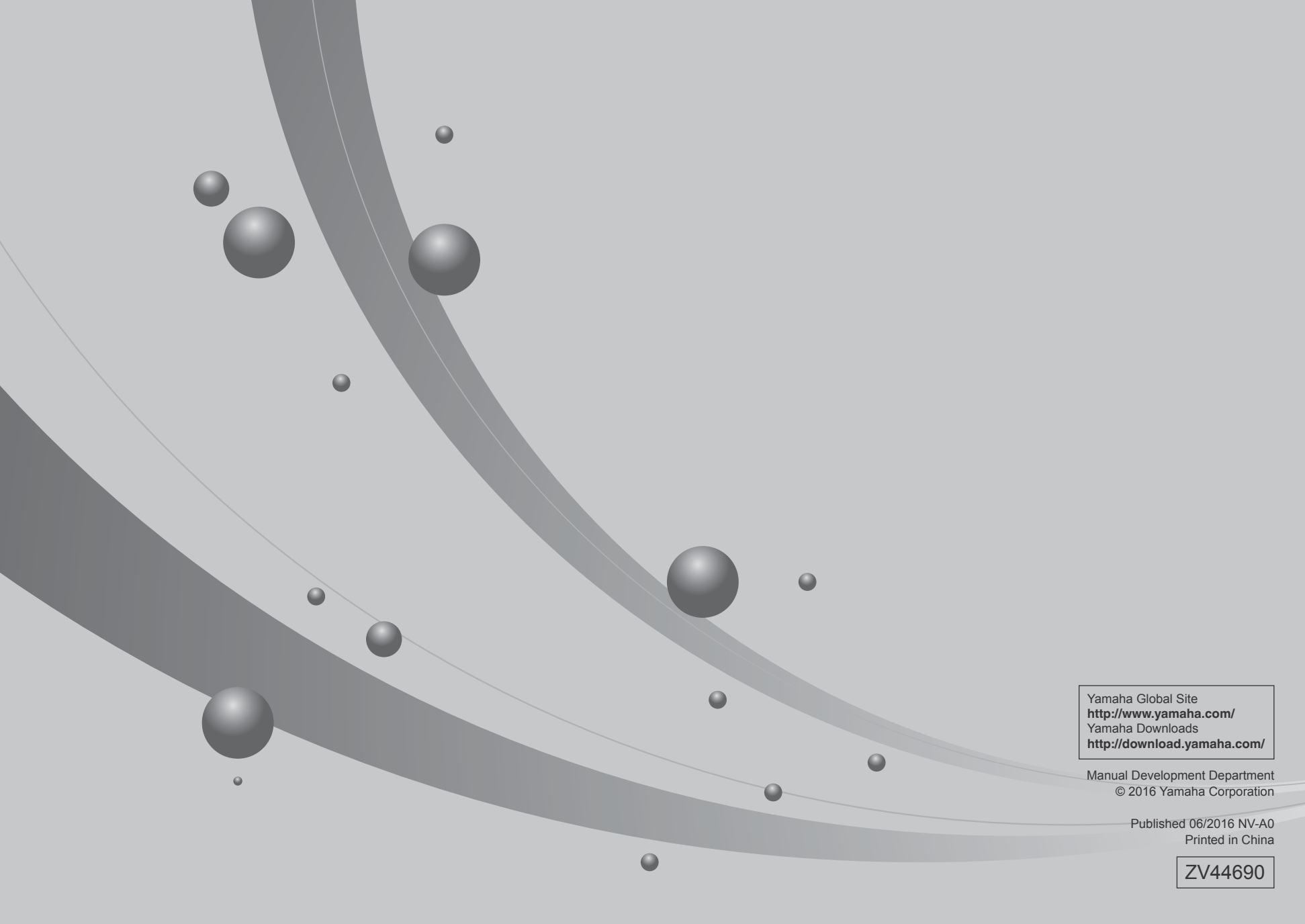
Depending on the source of the preset content, the unit performs one of the actions explained below.

PC (Server), Internet Radio, USB, CD, FM Radio Station, DAB Station (CRX-N470D only):

Playback of the track or station begins.

AirPlay, Bluetooth, AUX:

The unit switches to the preset input source.



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<http://www.yamaha.com/>
Yamaha Downloads
<http://download.yamaha.com/>

Manual Development Department
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