YAMAHA

AB

CD-N301

Network CD Player

OWNER'S MANUAL

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: 10 cm (4 in)
Sides: 10 cm (4 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 read the “TROUBLESHOOTING” section on common operating errors before concluding that this unit is faulty.
17 Before moving this unit, press ⏻ to set this unit to the 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.
– Keep the batteries in a location out of reach of children. Batteries can be dangerous if a child were to put in his or her mouth.
– If the batteries grow old, the effective operation range of the remote control decreases considerably. If this happens, replace the batteries with two new ones as soon as possible.
– Do not use old batteries together with new ones.
– Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
– Exhausted batteries may leak. If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
– If you plan not to use the unit for a long period of time, remove the batteries from the unit. Otherwise, the batteries will wear out, possibly resulting in a leakage of battery liquid that may damage the unit.
– Do not throw away batteries with general house waste. Dispose of them correctly in accordance with your local regulations.
22 Excessive sound pressure from earphones and headphones can cause hearing loss.

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 ⏻. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

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

CONTENTS

PREPARATION

WHAT YOU CAN DO WITH THIS UNIT 2
Sources that can be played back on this unit 2
Devices that can control this unit 3
Operations from your mobile device 3
SUPPLIED ACCESSORIES 4
REMOTE CONTROL PREPARATION 4
CONTROLS AND FUNCTIONS 5
Front panel 5
Remote control 6
Rear panel 8
Front panel display 8
CONNECTIONS 9
Connecting to an amplifier 9
Connecting to a network (PC/NAS/Internet connection) 10
Turning on this unit 11

OPERATIONS

SETUP OF YOUR NETWORK DEVICES 12
Sharing music files stored on your PC 13
PLAYBACK OF CDS 14
Playing back a CD 14
Using A-B repeat playback 16
Using program playback mode 16
PLAYBACK OF PANDORA® 17
Account setup for Pandora 17
Creating Pandora stations 18
Playback of Pandora stations 19
Deleting Pandora stations 21
Editing the Pandora accounts 21
PLAYBACK OF SPOTIFY SERVICE 22
PLAYBACK OF MUSIC FILES ON YOUR PC/NAS 23
Operations from the main unit or remote control 23
PLAYBACK OF INTERNET RADIO 25
PLAYBACK OF AirPlay 27
Playing iPod 27
Playing iTunes 27
Clearing AirPlay 27
SETUP MENU 28
Setup menu operations 28
Setup menu items 29
Advanced setup menu 29
Updating the firmware 30

OTHERS

FREQUENTLY ASKED QUESTIONS 31
TROUBLESHOOTING 32
Front panel display messages 36
ADDITIONAL INFORMATION 37
PLAYABLE DISCS AND FILE FORMATS 38
Playable media and devices 38
Playable discs and file formats 39
SPECIFICATIONS 40

(at the end of this manual)
Information about third party software licenses i

PREPARATION

OPERATIONS

OTHERS

English

About this manual

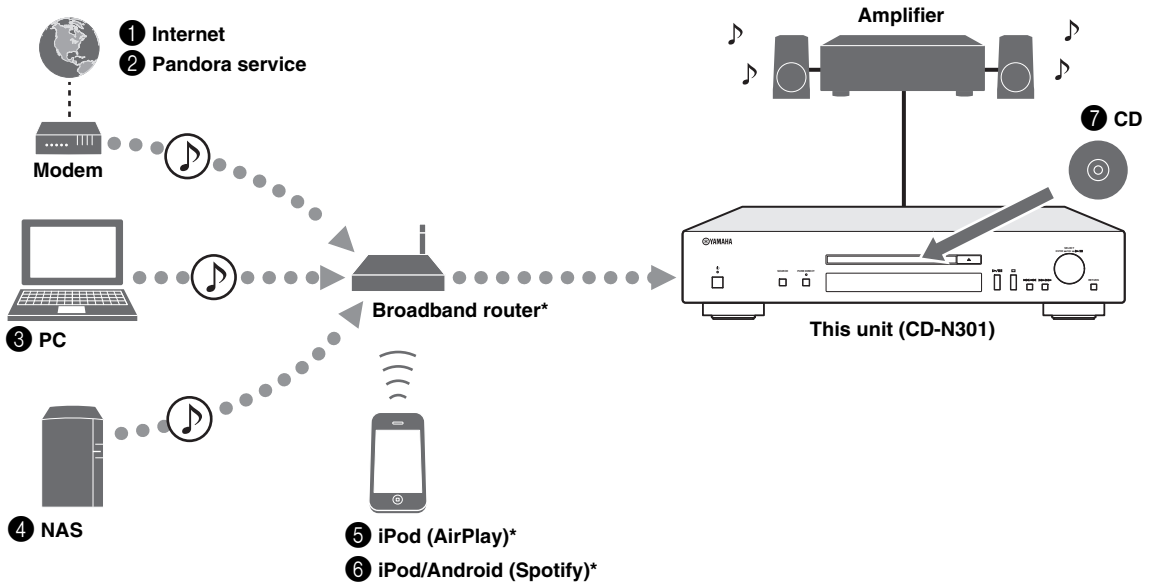
- Notes contain important information about safety and operating instructions. ☼ indicates a tip for your operation.
- “iPod” described in this manual may also refer to “iPhone” or “iPad”.

WHAT YOU CAN DO WITH THIS UNIT

This unit is a network CD player, on which you can enjoy playing back music files stored on your media server (PC or NAS), audio contents on the Internet radio, CD, Pandora, Spotify, AirPlay devices (iPod/iTunes), by connecting the unit to your home network (DLNA) and audio system on the same network.

For details on DLNA or NAS, see "ADDITIONAL INFORMATION" (☞ P.37).

Sources that can be played back on this unit

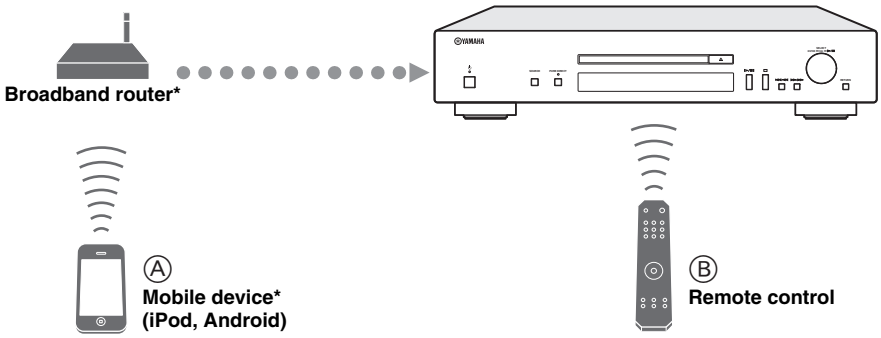


* You need a commercially available Wi-Fi broadband router when you use an iPod/Android.

- **❶ Play back the Internet radio (☞ P.25)**
- **❷ Play back the Pandora service (☞ P.17)**
- **❸ Play back music files stored on your PC (☞ P.12, 23)**
- **❹ Play back music files stored on your NAS (☞ P.12, 23)**
- **❺ Play back your iPod with AirPlay (☞ P.27)**
- **❻ Play back the Spotify service (☞ P.22)**
- **❼ Play back a CD (☞ P.14)**

For details on connecting the devices, see "CONNECTIONS" (☞ P.9).

Devices that can control this unit



* You need a commercially available Wi-Fi broadband router when you use a mobile device.

Ⓐ Control this unit using your mobile devices (☞ P.3, 12)

Ⓑ Control this unit using the remote control (☞ P.6, 14, 17, 23, 25, 28)

Operations from your mobile device

Once you install the app "NETWORK PLAYER CONTROLLER" in your mobile device, you can operate the unit with the mobile device.

Features

- Power-on/off or other basic operation
- Changing the music source
- Selecting, playing back, and stopping songs
- Playing back songs stored in devices

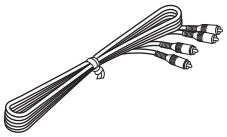
For downloading the app or the latest information, access to the App Store or Google Play and search "NETWORK PLAYER CONTROLLER."

SUPPLIED ACCESSORIES

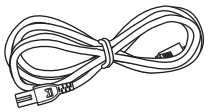
Check that you have received all of the following items.

Remote control

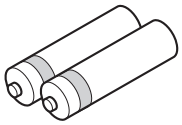
RCA stereo cable



Power cable



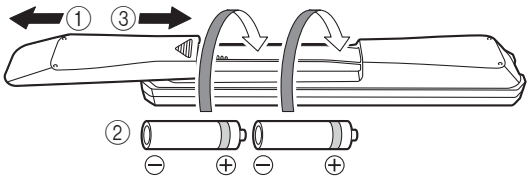
Batteries (AA, R6, UM-3) (× 2)



Owner's manual

REMOTE CONTROL PREPARATION

▮ Installing the batteries

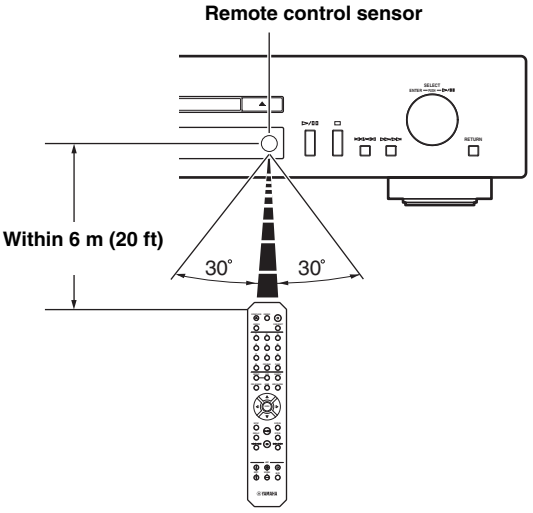


Notes

- Change all batteries if the operation range of the remote control narrows.
- Before inserting new batteries, wipe the compartment clean.

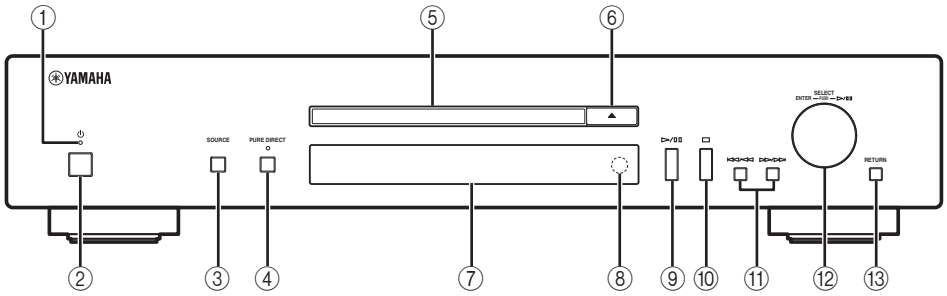
▮ Operation range

Aim the remote control directly at the remote control sensor on the main unit during operation.



CONTROLS AND FUNCTIONS

Front panel



① **Power indicator**
- **Lights up:**
  The unit is on.
- **Lights up dimly:**
  The unit is in standby mode.
- **Off:**
  The unit is off.

When the unit is in standby mode, you can control the power from a network device (network standby). To enable network standby function, set "System Config" → "Network Standby" to "On" from the setup menu (☞ P.28).

② **Power switch (☞ P.11)**
Switches this unit between on and off.

▯: On ▯: Off

③ **SOURCE (☞ P.14, 17, 23, 25)**
Selects an audio source. Each press cycles the audio sources as follows.
CD → Pandora* → Spotify → Server → Net Radio → AirPlay → Back to CD
(* Australia model only)

④ **PURE DIRECT**
Turns on or off PURE DIRECT mode. Audio quality will be improved when PURE DIRECT mode is on.

Note

The digital output is turned off when this unit is in PURE DIRECT mode.

The PURE DIRECT indicator lights up when PURE DIRECT mode is on.

⑤ **Disc tray**
Loads a disc.

⑥ **⏏ (Open/Close)**
Opens or closes the disc tray.

⑦ **Front panel display**
Shows menu items, playback information, etc.

For details on display messages, see "Front panel display messages" (☞ P.36).

⑧ **Remote control sensor (☞ P.4)**
Receives infrared signals from the remote control.

⑨ **▷/▯▯ (Play/Pause)**
Starts or pauses playback.

⑩ **□ (Stop)**
Stops playback.

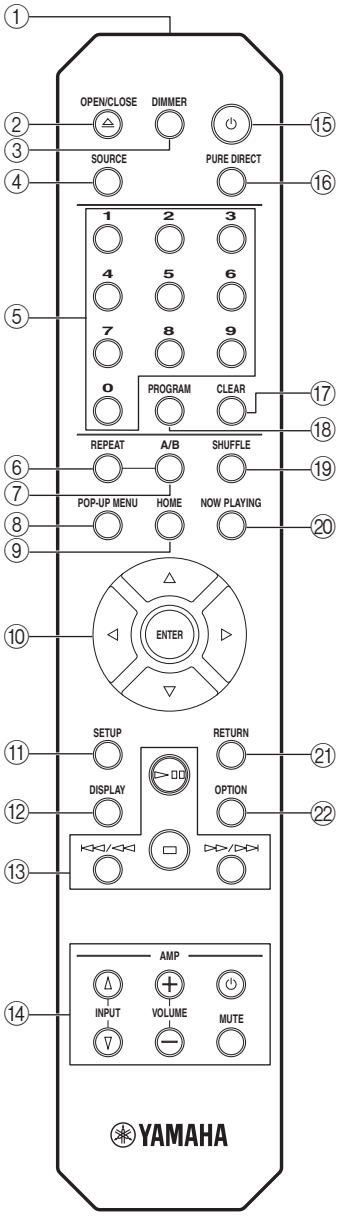
⑪ **⏮/◁◁ (Skip/Search backward)**
Skips backward. Searches tracks backward while the button is pressed and held during playback.

▷▷/⏭ (Skip/Search forward)
Skips forward. Searches tracks forward while the button is pressed and held during playback.

⑫ **SELECT/ENTER (jog dial) (☞ P.14, 23, 25, 29)**
Rotate to select an item and press to confirm the selection.

⑬ **RETURN (☞ P.23, 25)**
Shows the upper-level menu in the front panel display.

Remote control



① **Remote control signal transmitter**
Transmits infrared signals to the main unit.

② **OPEN/CLOSE**
Opens or closes the disc tray.

③ **DIMMER**
You can adjust the brightness of the front panel display in the following three stages: bright, mid dim, or dim. Each press of the button changes the brightness.

④ **SOURCE (☞ P.14, 17, 23, 25)**
Selects an audio source. Each press cycles the audio sources as follows.
CD → Pandora* → Spotify → Server → Net Radio → AirPlay → Back to CD
(* Australia model only)

⑤ **Numeric buttons (☞ P.15)**
Use to enter numbers, such as the track number of a CD.

⑥ **REPEAT (☞ P.15, 24)**
Switches repeat modes.

⑦ **A/B (☞ P.16)**
Repeats playback of a specified section of a track during audio CD playback (A-B repeat playback).

⑧ **POP-UP MENU**
This button is not available for this unit.

⑨ **HOME (☞ P.19, 23, 26)**
Moves up top level when selecting (browsing) music files, folders, etc.

⑩ **▲/▼/◀/▶ (Cursor buttons)/ENTER**
Use the cursor buttons to select an item and press ENTER to confirm the selection.
Change the playback folder or the music file when playing music files on your data CDs, PC or NAS.

⑪ **SETUP (☞ P.28)**
Shows the setup menu in the front panel display.

⑫ **DISPLAY (☞ P.15, 20, 24, 26)**
Switches information shown in the front panel display, such as playback information.

⑬ **Playback buttons (☞ P.15, 20, 24, 26, 27)**

▷/▯▯ (Play/Pause)
Starts or pauses playback.

□ (Stop)
Stops playback.

⏮/◁◁ (Skip backward/Search backward)
Skips backward. Searches tracks backward while the button is pressed and held during playback.

▷▷/⏭ (Skip forward/Search forward)
Skips forward. Searches tracks forward while the button is pressed and held during playback.

⑭ **Amplifier control buttons**
Controls the corresponding functions of a Yamaha amplifier.

⏻ (Power)
Turns your amplifier on and off.

INPUT (△/▽)
Switches input sources.

VOLUME (+/—)
Adjusts the volume.

MUTE
Turns mute on or off.

For details on operations, refer to the manual of your amplifier.

These buttons may not work for some Yamaha amplifiers.

⑮ **⏻ (Power) (☞ P.11)**
Switches this unit between on and standby mode.

⑯ **PURE DIRECT**
Turns on or off PURE DIRECT mode. Audio quality will be improved when PURE DIRECT mode is on.

Note

The digital output and front panel display are turned off when this unit is in PURE DIRECT mode.

⑰ **CLEAR (☞ P.16)**
Clears the last programmed track of an audio CD during program editing mode.
Clears all programmed tracks when playback is stopped while exiting the program mode.

⑱ **PROGRAM (☞ P.16)**
Turns on or off program playback mode. In program playback mode, you can playback tracks of an audio CD in a programmed sequence.

⑲ **SHUFFLE (☞ P.15, 24)**
Switches shuffle modes.

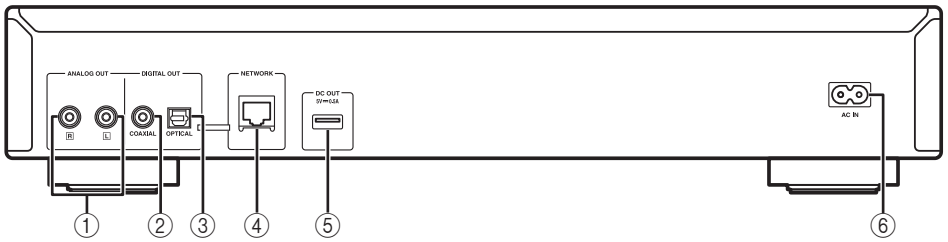
⑳ **NOW PLAYING (☞ P.19, 23, 26)**
Displays playback information when selecting (browsing) music files, folders, etc.

㉑ **RETURN (☞ P.21, 24, 26, 28)**
Moves up one level when selecting (browsing) music files, folders, etc.

㉒ **OPTION (☞ P.18)**
(U.K. model)
This button is not available for this unit.

(Australia model)
Displays the option menu during Pandora service playback.

Rear panel



① **ANALOG OUT terminal (☞ P.9)**
Outputs L/R analog audio signals. Connect to your amplifier or audio system using the RCA stereo cable (supplied).

② **DIGITAL OUT terminal (COAXIAL) (☞ P.9)**
Outputs digital audio signals. Connect to your amplifier or audio system using a coaxial digital audio cable (commercially available).

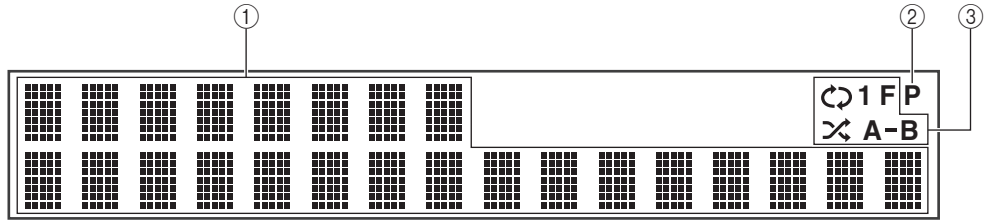
③ **DIGITAL OUT terminal (OPTICAL) (☞ P.9)**
Outputs digital audio signals. Connect to your amplifier or audio system using an optical cable (commercially available).

④ **NETWORK terminal (☞ P.10)**
Connects to a network using a network cable (commercially available).

⑤ **DC OUT terminal**
Supplies power to the Yamaha AV accessories from this terminal. When using this, set "Accessory" in "System Config" from the setup menu, to "On" (☞ P.28). For details, refer to the owner's manual supplied with the accessory.

⑥ **AC IN socket (☞ P.9)**
Connects to an AC outlet using the power cable (supplied).

Front panel display



① **Information display**
Displays various information such as the song title.

For more information on the messages displayed, see "Front panel display messages" (☞ P.36).

② **PROGRAM indicator**
Lights up when the unit is in program playback mode (☞ P.16).

③ **REPEAT/SHUFFLE indicator (☞ P.14, 23)**
Lights up when the unit is in repeat or shuffle mode.

Repeat playback

: REPEAT ALL
1 : REPEAT ONE
F : REPEAT FOLDER
A-B : A-B REPEAT

Shuffle playback

: SHUFFLE ALL
F : SHUFFLE FOLDER

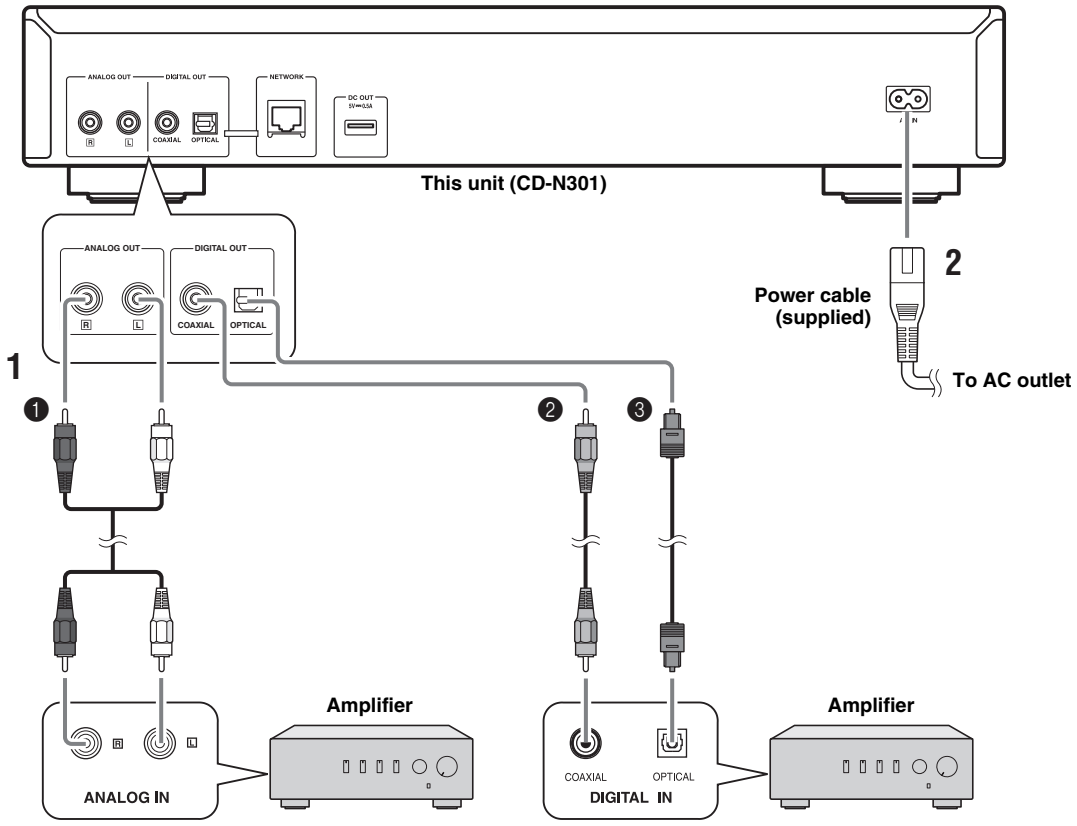
CONNECTIONS

This section describes connections required before playing back with this unit.

Notes

- Do not connect the power cable of this unit until all connections are completed.
- You need to connect this unit to an amplifier and speakers before playing back.
- This unit can output digital signals up to 192 kHz/24 bits linear PCM signals.
- Proper playback may not be possible depending on the connected device and environment. Verify the settings and specifications of the connected playback source device.

Connecting to an amplifier



* The digital output is turned off when this unit is in PURE DIRECT mode.

1 Connect this unit to your amplifier with one of the following cables.

❶ RCA stereo cable (supplied)

❷ Coaxial digital audio cable (commercially available)

❸ Optical digital cable (commercially available)

2 Connect the supplied power cable to the AC IN socket, then plug into an AC outlet.

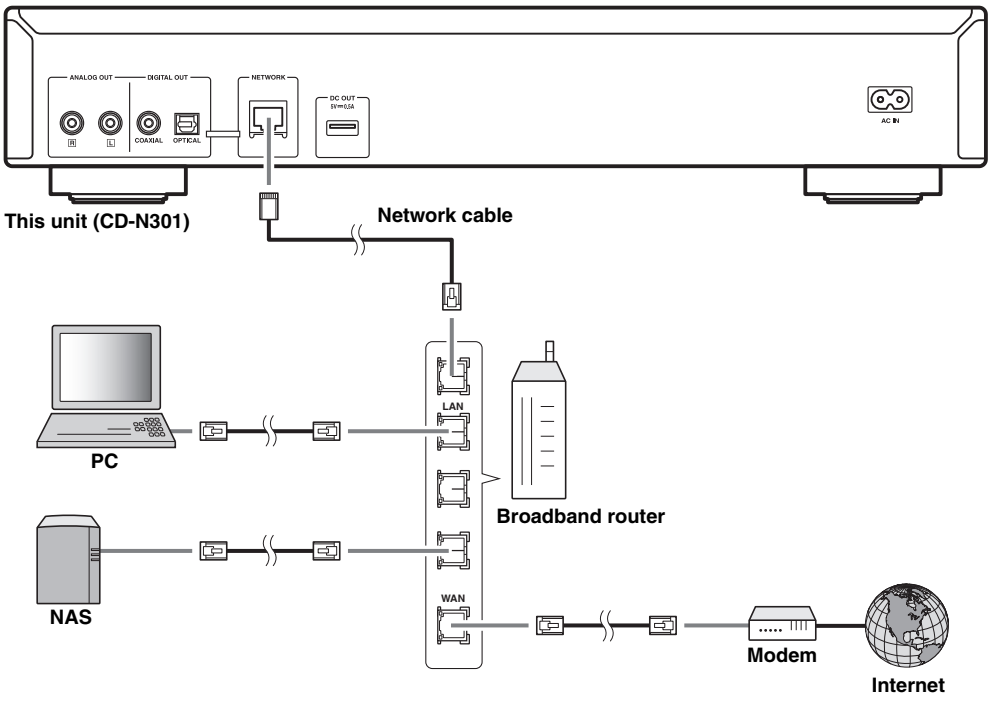
For details on speaker connections, refer to the manual of your amplifier or speakers.

Note

When using a digital connection, audio output may be interrupted at the beginning of a track depending on the audio system (amplifier, etc.).

Connecting to a network (PC/NAS/Internet connection)

You can play back music files stored on your PC or NAS, audio contents on the Internet radio, by connecting this unit to a network.
Connect with a commercially available STP (shielded twisted pair) network cable (CAT-5 or higher, straight-through cable).

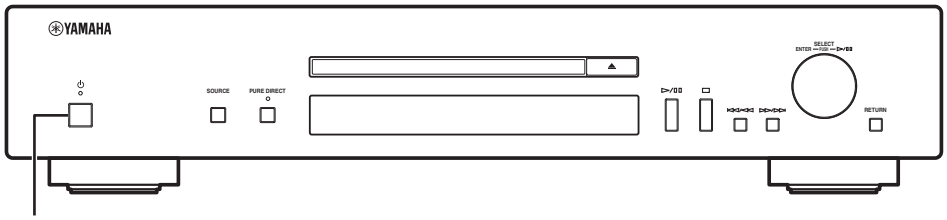


Notes

- For details on Internet connection, refer to the owner's manuals of your network devices.
- If you are using a router that supports DHCP, you do not need to configure any network settings for the unit. If you are using a router that does not support DHCP, configure the network setting from "Network Config" in the setup menu (☞ P.28).
- Wired connections are recommended for devices other than the mobile to ensure high sound quality.
- Some security software installed on your PC or the firewall settings of network devices (such as a router) may block the access of the unit to the network devices or the Internet. In this case, change the setting of the security software or network devices.
- When setting the subnet manually, each server must be connected to the same subnet as the unit (☞ P.28).

Turning on this unit

When you have established all cable connections, turn on this unit and other system components.



Press the power switch to turn this unit on.

With the power switch on, you can switch this unit to on or standby mode by pressing the power button on the remote control.
When network standby mode is enabled, you can also control the power etc. from a network device.

▮ Operable functions in standby/network standby

	CD eject	AirPlay	Power-on by the application
Standby	Operable	—	—
Network Standby	Operable	Operable	Operable

To enable network standby mode, set “System Config” → “Network Standby” to “On” from the setup menu (☞ P.28).

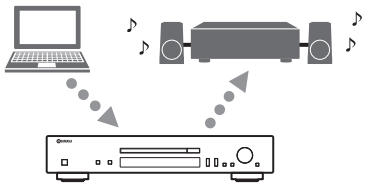
When no operations are performed for a specific length of time, the unit automatically switches to standby mode (auto power standby). You can set the time to switch to standby mode in “System Config” → “AutoPowerStdby” from the setup menu (☞ P.28).

SETUP OF YOUR NETWORK DEVICES

Configure your devices connected to the network to play back music files stored on the devices, or configure your mobile device to control this unit. Use the following configurations to suit your needs.

For details on Internet connection, please refer to the manual of your network devices.

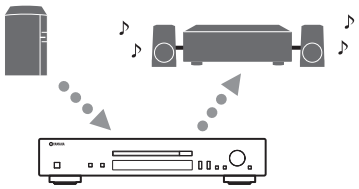
■ If you want to play the music files stored on your PC



You need to configure the media sharing setting of your PC. Configure the media sharing setting of music files on Windows Media Player 12. For details on sharing setting, please refer to "Sharing music files stored on your PC" (☞ P.13).

You can operate from your PC using Windows Media Player. For details, refer to Windows Media Player help.

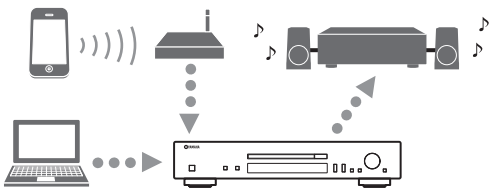
■ If you want to play music files stored on your NAS



You need to configure the media sharing settings of your NAS. Setup operations differ depending on your NAS. Refer to the NAS manual.

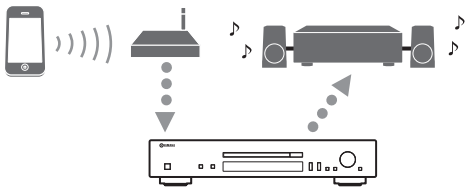
- If you want to configure the network parameters manually, check that you are using an IP address which is not used by other network devices in your network.
- In case that you use DHCP and automatically obtain necessary information for network, such as IP address. We recommend that DHCP for the NAS normally be enabled.

■ If you want to play iPod/iTunes with AirPlay



Select this unit from your iPod or from iTunes (☞ P.27). Check that the router being accessed by the iPod/iTunes is connected to the same network as this unit.

■ If you want to operate this unit with your mobile device



You need to download the dedicated application, and install it (☞ P.3).

- If you want to configure the network parameters manually, check that you are using an IP address which is not used by other network devices in your network.
- In case that you use DHCP and automatically obtain necessary information for network, such as IP address. We recommend that DHCP for the mobile device normally be enabled.

Sharing music files stored on your PC

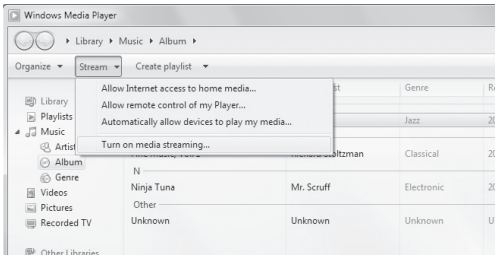
To play back music files in your computer with this unit, you need to make the media sharing setting between the unit and computer (Windows Media Player 11 or later). For details on Windows Media Player, please refer to Windows Media Player help.

You can connect up to 16 media servers to this unit.

When using Windows Media Player 12 (on Windows 7)

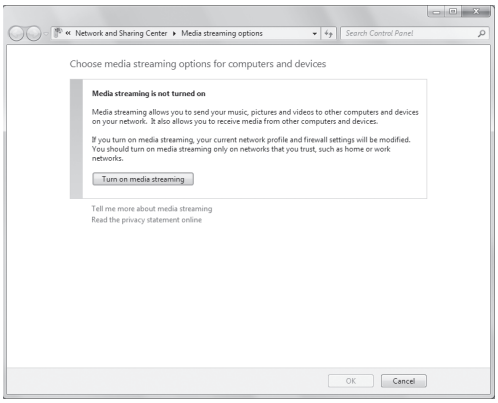
1 Start Windows Media Player 12 on your PC.

2 Select “Stream”, then “Turn on media streaming”.

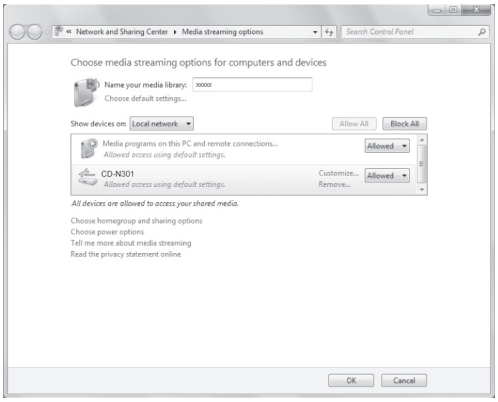


The Control Panel window of your PC appears.

3 Click “Turn on media streaming”.



4 Select “Allowed” from the drop-down list next to “CD-N301”.



5 In the same way, select the icons for devices to be used as external media controllers (other PCs or mobile devices), then click “Allowed”.

6 Click “OK” to exit.

When using Windows Media Player 11

1 Start Windows Media Player 11 on your PC.

2 Select “Library” then “Media Sharing”.

3 Check the “Share my media to” box, select the “CD-N301” icon, then click “Allow”.

4 In the same way, select the icons for devices to be used as external media controllers (other PCs or mobile devices), then click “Allow”.

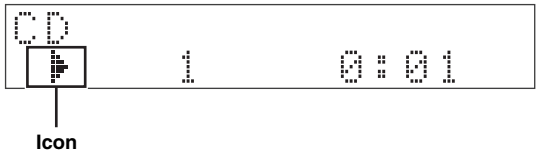
5 Click “OK” to exit.

PLAYBACK OF CDS

This unit allows playback of audio CDs and data CDs in which the MP3/WMA files are recorded.

For details on playable CDs, see “PLAYABLE DISCS AND FILE FORMATS” (☞ P.38).

Front panel display (example)



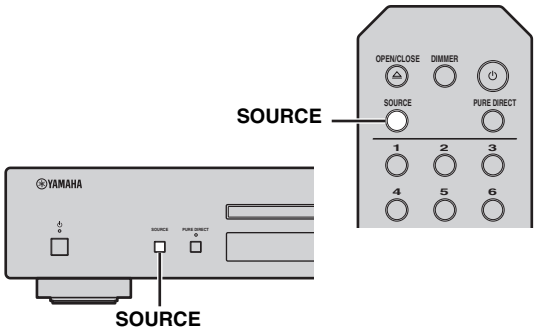
The following icons are shown on the front panel display.

Icon	Content
	Displayed while a CD is being played back.
	Displayed while a CD is paused.
	Displayed when a CD is stopped.

Playing back a CD

1 Press SOURCE repeatedly to switch the audio source to “CD”.

Main unit/Remote control

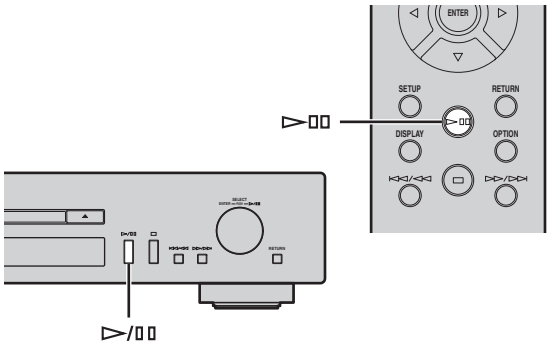


2 Set the CD.

Press the ⏏ (open/close) button on this unit, or press the OPEN/CLOSE button on the remote control to open the disc tray, and load a disc.

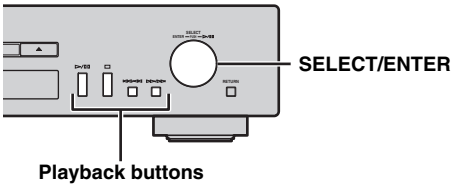
3 Press ▻/▯▯ (main unit) or ▻▯▯ (remote control) to start playback.

Main unit/Remote control



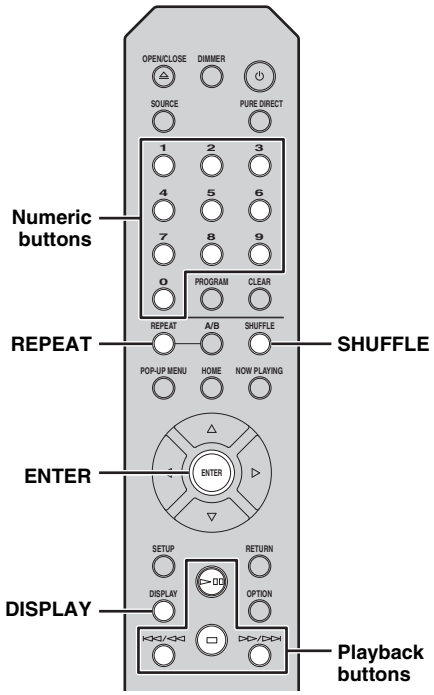
4 When playback starts, use the following controls to operate desired functions.

Main unit



SELECT/ ENTER	Rotate	Skips to the next track, or back to the previous track.
	Press	Plays/Pauses.
Playback buttons	▻/▯▯	Plays/Pauses.
	□	Stops playback.
	⏮/◁◁ ▷▷/⏭	Press to skip to the next track, or back to the previous track, or hold down to search backward/ forward.

Remote control



Numeric buttons		Sets the track number.
ENTER		When a music file is selected: starts playback.
Playback buttons	▷▯▯	Plays/Pauses.
	□	Stops playback.
	◁◁/◁◁ ▷▷/▷▷	Press to skip to the next track, or back to the previous track, or hold down to search backward/forward.
REPEAT		Select the repeat playback method. Audio CD: REPEAT ONE / REPEAT ALL / REPEAT OFF Data CD: REPEAT ONE / REPEAT FOLDER / REPEAT ALL / REPEAT OFF
SHUFFLE		Select the shuffle playback method. Audio CD: SHUFFLE ALL / SHUFFLE OFF Data CD: SHUFFLE FOLDER / SHUFFLE ALL / SHUFFLE OFF
DISPLAY		Change the playback information. Audio CD (during playback): Playing time → Time remaining → Disc time remaining → Song title* → Artist name → Album title* Data CD (during playback): Playing time → Song title → Artist name → Album title

* Only for audio CDs that contain CD-TEXT.

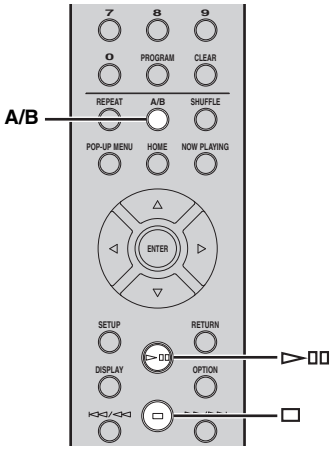
- Files on a data CD are played back in alphanumeric order.
- When CD playback is stopped, playback will resume from the beginning of the song last played. Pressing □ while playback is stopped will clear resume playback.
- You can also check the repeat/shuffle status from the indicators on the front panel display (☞ P.8).

Using A-B repeat playback

During audio CD playback, A-B repeat playback allows you to specify the start and end points for a section that you want to repeat.

A-B repeat playback is only available for audio CDs.

1 Playback the audio CD, and then press the A/B button on the remote control at the point you want to start the repeat.



Front panel display (example)

The A-B indicator on the front panel display flashes during setup.

2 Press the A/B button on the remote control again at the point where you want to end the repeat.

The A-B indicator turns lit, and the repeat playback starts.

3 To stop the repeat playback, stop the playback, or press the A/B button again.

The repeat playback is cancelled.

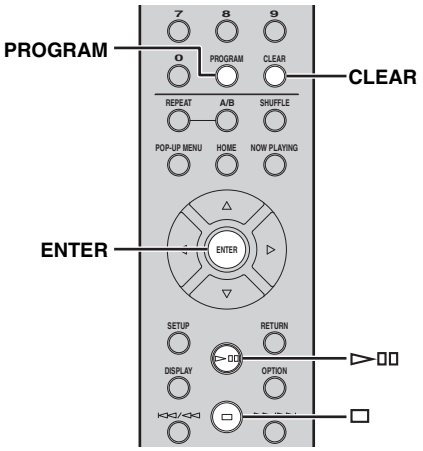
Using program playback mode

In program playback mode, you can play back tracks in a programmed sequence.

Program playback is only available for audio CDs.

1 Press PROGRAM on the remote control while playback is stopped.

This unit enters program editing mode.



2 Select a track by using the numeric buttons and press ENTER to confirm.

3 Repeat step 2 to program the next track.

You can program up to 50 tracks.

To cancel the programmed track, press CLEAR during program editing mode. The last programmed track will be deleted.

4 Press ▻/▯▯ (Play/Pause) on the main unit or ▻▯▯ (Play/Pause) on the remote control.

Playback starts from the beginning of the programmed sequence.

To clear all programmed tracks, press CLEAR while playback is stopped.

Note

The programmed tracks are cleared when the disc is ejected or this unit is turned off.

PLAYBACK OF PANDORA®

(Australia model only)

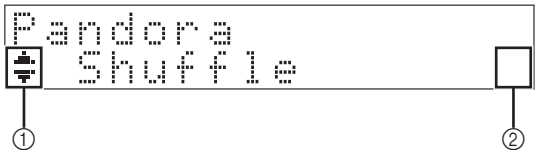
The Pandora service is available in the U.S.A, Australia, New Zealand only.

Pandora is a free, personalized internet radio service that plays only the music you love.
Enter a favorite artist, track or genre and Pandora will do the rest, bringing an effortless personalized soundtrack into your living room. Rate tracks with thumbs-up and thumbs-down as they play, and Pandora will adapt stations to your feedback on the spot.
Since all Pandora accounts are portable, you can always access your own personalized Pandora stations from any computer or device in the United States, Australia and New Zealand that support Pandora. Pandora is currently only available within these countries due to licensing restrictions.
Pandora is always free, with the option to upgrade to Pandora One which is completely free of all advertising and comes with additional features.
For more information, http://www.pandora.com

Notes

- To use this function, the unit must be connected to the Internet. For detail on connections and network settings (p.10).
- If any error message appears on the front panel display, see "Front panel display messages" (p.36).

Front panel display (example)



The following icons are shown on the front panel display.

	Icon	Content
		Displayed an menu item or station list can be selected.
①		Displayed when the setting/editing item can be selected.
		Displayed when the station list during playback.
②		Displayed when the setting/editing item can be selected.

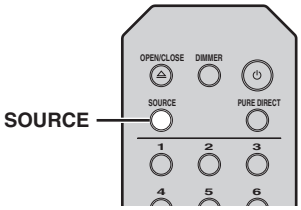
Account setup for Pandora

If you have not set up your Pandora account yet, the account setup display appears when you select "Pandora". To start using the Pandora service on the unit, follow the procedure below to set up your Pandora account.

You can register up to eight Pandora accounts on the unit. For details, see p.21.

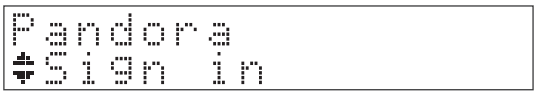
1 Press SOURCE repeatedly to switch the audio source to "Pandora".

Remote control



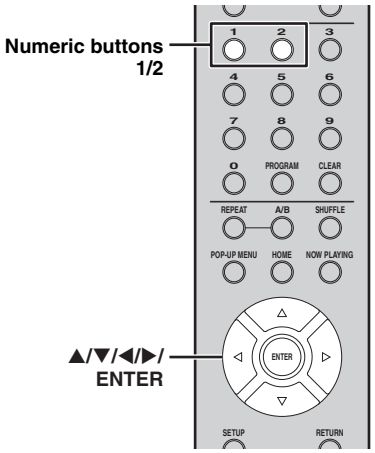
If you have not set up your Pandora account on the unit yet, "Sign in" appears on the front panel display.

Front panel display



2 If you have a Pandora account, press ENTER. If you do not have a Pandora account, press ▲/▼ to select "Activation" and press ENTER.

Remote control



3 Perform the following procedure.

If you select “Sign in” in Step 2

❶ Use the ▲/▼/◀/▶ to enter your Pandora account e-mail address.

❷ Press ENTER to enter password entry.

❸ Use the ▲/▼/◀/▶ to enter your Pandora password.

❹ Press ENTER to access your account.
If you have successfully logged into your account, “Login OK” appears on the front panel display.

If “Create” appears on the front panel display, you can create Pandora stations. Refer to step 4 in “Creating Pandora stations” (p.18) for details.

- If you want to delete characters, press Numeric button “1”.
- If you want to insert characters, press Numeric button “2”.
- Rotate SELECT/ENTER on the front panel, you can change characters quickly.

Notes

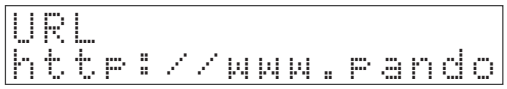
When login goes failed, “Login Failed” appears on front panel display.

– If you want to retry same password, press ◀/▶ to select “Retry” and press ENTER.

– If you want to reset the password, select the “Forgot” and press ENTER twice. An e-mail message containing a link to reset your password will be sent to your e-mail address that you entered in step ❶. Please check your mail and click it.

If you select “Activation” in Step 2

❶ Write down the URL and active code shown in the front panel display.



❷ Use a web browser on your PC to access the URL and follow the on-screen instruction to register for a Pandora account.

❸ After activation, press ENTER to log in with your new Pandora account.

If “Create” appears on the front panel display, you can create Pandora stations. Refer to step 4 in “Creating Pandora stations” (p.18) for details.

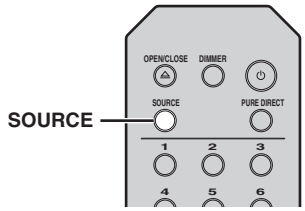
Creating Pandora stations

Pandora lets you create up to 100 custom radio stations that play only music you love. Just type in your favorite track or artist and Pandora will create a station that plays similar music.

- If there are no Pandora stations in your account, the “Create” appears automatically. In this case, proceed to Step 4 and create Pandora stations.
- When the maximum number of Pandora stations have be been created, “Max Stations” appears on the front panel display.

1 Press SOURCE repeatedly to switch the audio source to “Pandora”.

Remote control



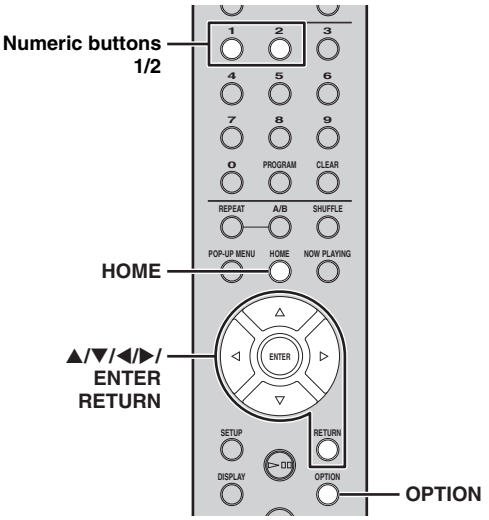
The station list appears on the front panel display.

Front panel display (example)

If HOME is pressed, the station list can be displayed at any time. When a station list is not displayed, perform the following operations after press HOME.

2 Press OPTION.

Remote control



3 Press ▲/▼ to select "Create Station" and press ENTER.

4 Use the ▲/▼/◀/▶ to enter the name of an artist or a track (all or part of the name) and press ENTER.

- If you want to delete characters, press Numeric button "1".
- If you want to insert characters, press Numeric button "2".

5 Perform the following procedure.

If both artists and tracks are found

❶ Press ◀/▶ to select "Artist" or "Track" and press ENTER.

❷ Press ▲/▼ to select a desired item and press ENTER.
The selected item is added to your Pandora stations. The playback starts automatically and the playback information is displayed.

If either artists or tracks are found

Press ▲/▼ to select a desired item and press ENTER.
The selected item is added to your Pandora stations. The playback starts automatically and the playback information is displayed.

If only one item is found

In this case, the item found is automatically added to your Pandora stations. The playback starts automatically and the playback information is displayed.

If no items are found

"No content" appears on front panel display. Press ENTER and repeat Step 4 to try another keyword.

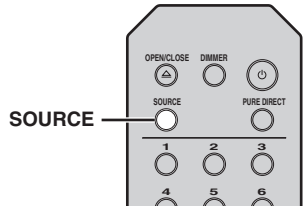
To return to the previous state, press RETURN.

Playback of Pandora stations

If you have created Pandora stations, follow the procedure below to select a Pandora station to be played.

1 Press SOURCE repeatedly to switch the audio source to "Pandora".

Remote control

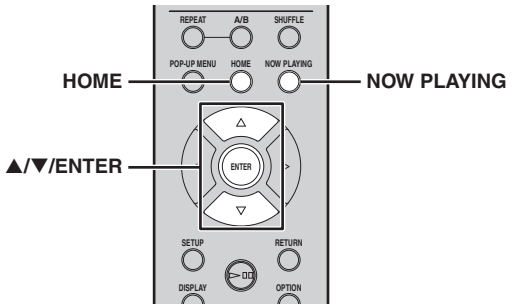


Front panel display (example)

- If playback of any Pandora station is ongoing, the playback information is displayed.
- When a station list is not displayed, perform the following operations after press HOME.

2 Use the following controls to select a desired Pandora station.

Remote control

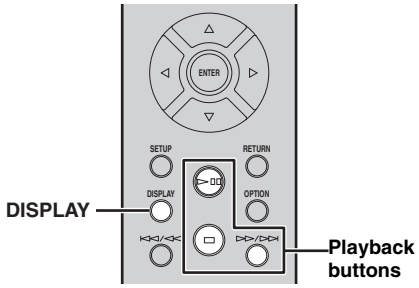


▲/▼/ENTER	▲/▼	Selects a Pandora station.
	ENTER	Starts playback.
HOME		Displays station list.
NOW PLAYING		Stops browsing and displays playback information.

If you display the station list during playback, ♪ appears at top of the Pandora station name.

3 When playback starts, use the following controls to operate desired functions.

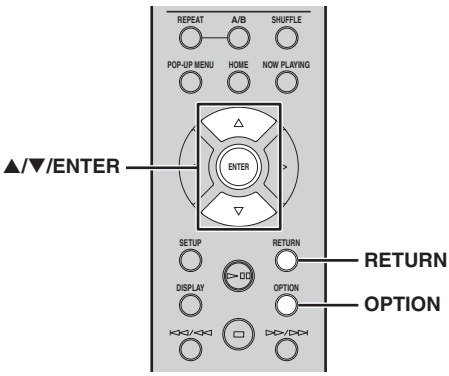
Remote control



Playback buttons	▷▯▯	Plays/Pauses.
	□	Stops playback.
	▷▷/▷▷|	Skips to the next track.
DISPLAY		Changes the playback information (Track name and Artist name → Station name → Album title → Playing time).

4 Perform the following procedure if you needed.

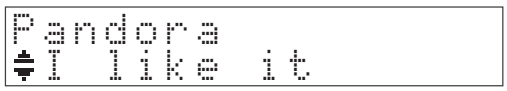
Remote control



If you want to set a rating of track

❶ When the playback information is displayed, press OPTION.

❷ Press ▲/▼ to select “RateThisTrack” and press ENTER.



❸ Press ▲/▼ to select rating and press ENTER.

I like it	Gives positive feedback (thumbs up) for the current track. (thumbs up) is displayed in the track name.
I dont like it	Gives negative feedback (thumbs down) for the current track and skip to the next track. If you can not skip at skip limit, (thumbs down) is displayed in the track name.
Tired of it	Requests not to playback the current track for a month and skip to the next track.

If you want to bookmark current track

❶ When the playback information is displayed, press OPTION.

❷ Press ▲/▼ to select “Bookmark” and press ENTER.
“This Track” appears on the front display.

❸ Press ENTER again.
Adds the current track to your bookmarks on your Pandora profile page at “http://www.pandora.com”.

If you want to confirm why you have to play

❶ When the playback information is displayed, press OPTION.

❷ Press ▲/▼ to select “WhyThisTrack?” and press ENTER.

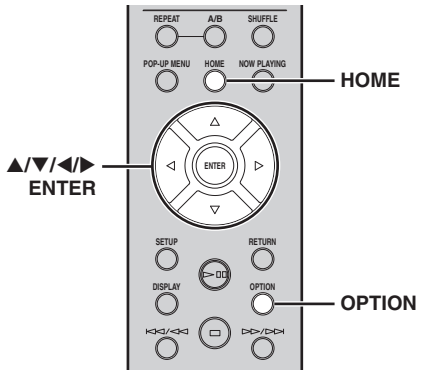
❸ Return to previous state, press RETURN.

Some functions are not available during advertisement broadcast.

Deleting Pandora stations

The created Pandora station can be deleting in the following procedures.

Remote control



1 Press HOME to display the station list.

2 Press ▲/▼ to select Pandora station to be delete.

3 Press OPTION.

4 Press ▲/▼ to select "Delete station" and press ENTER.

5 Press ◀/▶ to select "OK" and press ENTER.

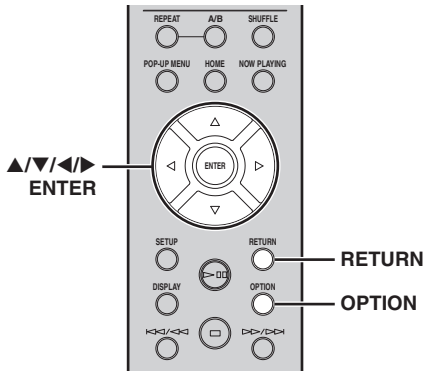
Note

When you delete a Pandora station, that station is deleted from your Pandora account and all associated listening devices.

Editing the Pandora accounts

You can register up to 8 Pandora accounts on the unit. Follow the procedure below to add or remove Pandora accounts, or switch to another Pandora account.

Remote control



1 Press HOME to display the station list.

2 Press OPTION.

3 Press ▲/▼ to select "Pandora Account" and press ENTER.

4 Perform the following procedure.

To add a new Pandora account

❶ Press ▲/▼ to select "Add Account" and press ENTER.

❷ Follow from Step 3 of "Account setup for Pandora" (p.17).

☼ When the Pandora account is created to the maximum, "Max account" appears on the front display.

To remove a Pandora account

❶ Press ▲/▼ to select "Remove Account" and press ENTER.

❷ Press ▲/▼ to select a Pandora account to be removed and press ENTER.

❸ Press ◀/▶ to select "OK" and press ENTER.

❹ Return to previous state, press RETURN.

To switch to another Pandora account

❶ Press ▲/▼ to select "Switch User" and press ENTER.

❷ Press ▲/▼ to select a Pandora account to be used and press ENTER.

Pandora, the Pandora logo, and the Pandora trade dress are trademarks or registered trademarks of Pandora Media, Inc. Used with permission.

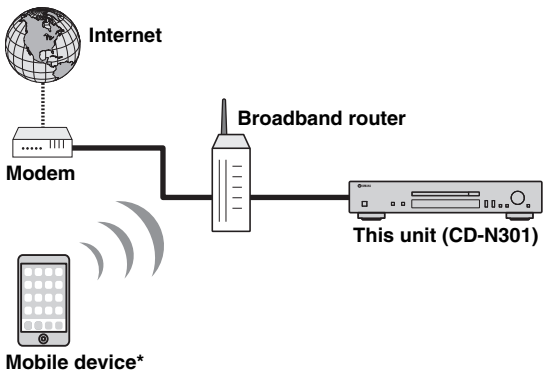
PLAYBACK OF SPOTIFY SERVICE

Spotify gives you instant access to millions of songs on your mobile devices. Just hit play to stream anything you like. The Spotify Connect feature lets you choose music on your Spotify app and listen on your Yamaha home entertainment system.
See Spotify.com for service area information.

1 Connect your device to your home Wi-Fi network.

Connect the unit and your mobile device to your home Wi-Fi network as shown in the illustration below. All devices need to be on the same network.

Network connection (example)



* iOS/Android™ apps are available as of July 2014.
For more details, visit Spotify.com

To use this function, this unit and your mobile device must be connected to the Internet. For detail on connections and network settings, refer to “Owner’s Manual”.

2 Get Spotify app and premium free trial.

Download the Spotify app for your mobile device from your app store, and take the Premium free trial.

The Spotify app and Premium account are required. Visit spotify.com for details.

www.spotify.com/connect

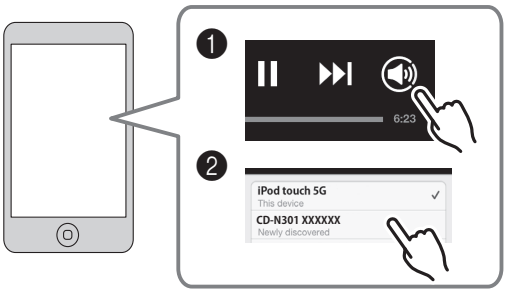
3 Turn on the unit and playback of Spotify contents.

Start Spotify app on your mobile device, log in to Spotify and start playing a track.

❶ Tap on the Now Playing bar to reveal extra controls and tap the Speaker icon.

❷ Select the unit (network name of the unit) as the audio output device.

Spotify app (example)



The playback screen is displayed on the front display.

Spotify and Spotify logo are registered trademarks of the Spotify Group.

PLAYBACK OF MUSIC FILES ON YOUR PC/NAS

This unit allows you to play back music files such as MP3, WMA, or FLAC (lossless audio data compression format) files stored in the computer (server) or NAS connected to the network. Browse the front panel display and select your favorite music file.
To play back music files in your computer/NAS with this unit, you need to make the media sharing setting to computer/NAS. For details on sharing setting, please refer to "SETUP OF YOUR NETWORK DEVICES" (p.12).

For details on playable music files, see "PLAYABLE DISCS AND FILE FORMATS" (☞ P.38).

Front panel display (example)

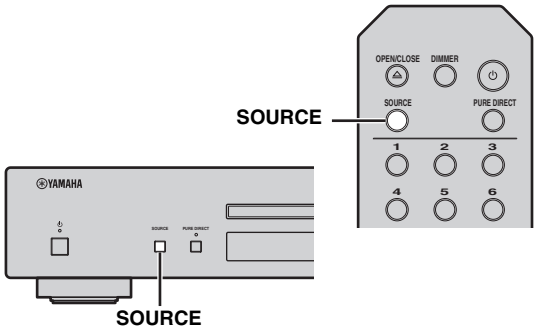
The following icons are shown on the front panel display.

	Icon	Content
①		Displayed when a folder or music file can be selected.
		Displayed when a folder is selected.
		Displayed when a supported music file is selected.
		Displayed while a music file is being played back.
		Displayed while a music file is paused.
②		Displayed when there is lower level in the current folder.

Operations from the main unit or remote control

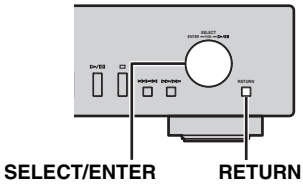
1 Press SOURCE repeatedly to switch the audio source to "Server".

Main unit/Remote control



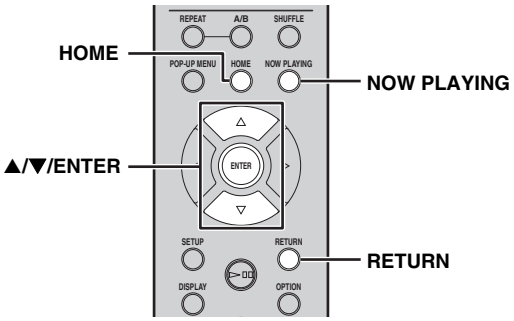
2 Use the following controls to select a desired music file.

Main unit



SELECT/ ENTER	Rotate	Selects a folder or music file.
	Press	When a folder is selected: moves down one level. When a music file is selected: starts playback.
RETURN		Returns to the previous level.

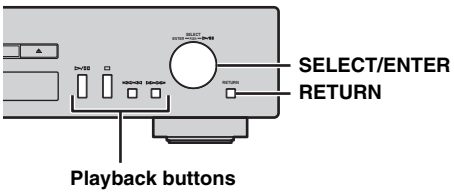
Remote control



▲/▼/ ENTER	▲/▼	Selects a folder or music file.
	ENTER	When a folder is selected: moves down one level. When a music file is selected: starts playback.
RETURN		Returns to the previous level.
HOME		Moves to the top level.
NOW PLAYING		Stops browsing and displays playback information for the file currently being played.

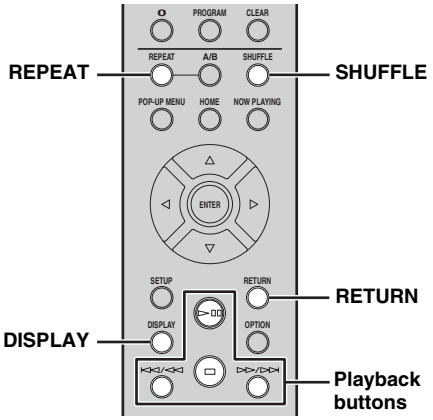
3 When playback starts, use the following controls to operate desired functions.

Main unit



SELECT/ ENTER	Rotate	Skips to the next song, or back to the previous song in the folder.
	Press	Continues playback and returns to display the folders or music files that can be selected. For details on selecting a folder or music file, refer to step 2.
RETURN		Continues playback and returns to display the folders or music files that can be selected. For details on selecting a folder or music file, refer to step 2.
Playback buttons	▷/▯▯	Plays/Pauses.
	□	Stops playback.
	⏮/◁◁ ▷▷/⏭	Skips to the next song, or back to the previous song in the folder.

Remote control



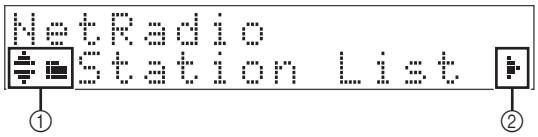
Playback buttons	▷▯▯	Plays/Pauses.
	□	Stops playback.
	⏮/◁◁ ▷▷/⏭	Skips to the next song, or back to the previous song in the folder.
RETURN		Continues playback and returns to display the folders or music files that can be selected. For details on selecting a folder or music file, refer to step 2.
REPEAT		Select the repeat playback method (REPEAT ONE / REPEAT ALL / REPEAT OFF).
SHUFFLE		Select the shuffle playback method (SHUFFLE ALL / SHUFFLE OFF).
DISPLAY		Changes the playback information (Song name → Artist name → Album title → Playing time).

You can also check the repeat/shuffle playback method from the indicators on the front panel display (☞ P.8).

PLAYBACK OF INTERNET RADIO

You can listen to world-wide radio stations via Internet.
Make sure that the unit is connected to the Internet properly (☞ P.10).

Front panel display (Example)

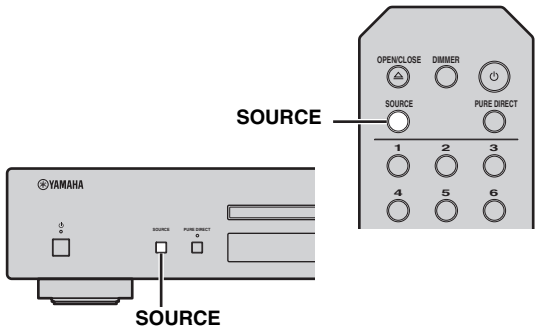


The following icons are displayed on the front panel display.

	Icon	Content
①		Displayed when a folder or Internet radio station can be selected.
		Displayed when a folder is selected.
		Displayed when Internet radio station is selected.
		Displayed while a Internet radio station is being played back.
②		Displayed when there is lower level in the current folder.

1 Press SOURCE repeatedly to switch the audio source to “Net Radio”.

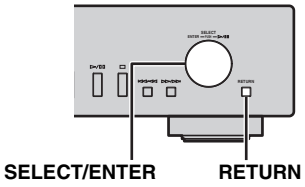
Main unit/Remote control



2 Selects an Internet radio station from the folder, and press ENTER to start playback.

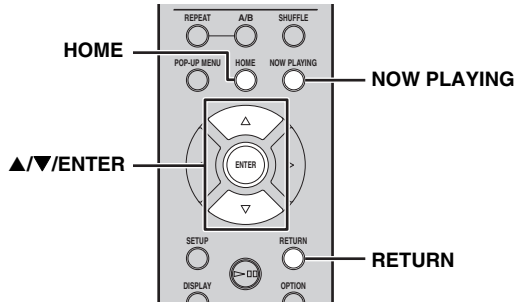
When you select an internet radio station, appears on the front panel display.

Main unit



SELECT/ ENTER	Rotate	Selects a folder or Internet radio station.
	Press	When a folder is selected: moves down one level. When Internet radio station is selected: starts playback.
RETURN		Returns to the previous level.

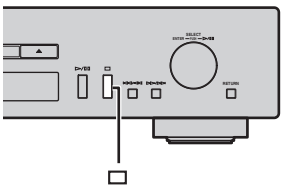
Remote control



▲/▼/ ENTER	**▲/▼**	Selects a folder or Internet radio station.
	ENTER	When a folder is selected: moves down one level. When a Internet radio station is selected: starts playback.
RETURN		Returns to the previous level.
HOME		Moves to the top level.
NOW PLAYING		Stops browsing and displays playback information for the Internet radio station currently being played.

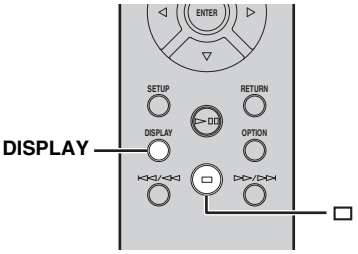
3 When playback starts, use the following controls to operate desired functions.

Main unit



□	Stops playback.

Remote control



Playback buttons	□	Stops playback.
DISPLAY		Changes the playback information (Station name → Playing time → Song title).

You can register your favorite Internet radio stations to the "Bookmarks" folder by selecting "Net Radio" as the source on the unit and then accessing the following website with the web browser on your PC.
http://yradio.vtuner.com/
Before registering an Internet radio station, play any Internet radio station with this unit.
To use this feature, you need the vTuner ID of the unit and your e-mail address to create your personal account.You can check the vTuner ID (MAC address of the unit) in "Network Info" (☞ P.29) in the Setup menu.

PLAYBACK OF AirPlay

The AirPlay function allows you to play back iPod/iTunes music on the unit wirelessly via a network.
Make sure that the unit and your PC or iPod are connected to the same network (☞ P.10).

Note

When you use iPod/iTunes controls to adjust volume, the volume may be unexpectedly loud. This could result in damage to the unit or speakers. If the volume increases during playback, stop playback on iPod/iTunes immediately.

You can also use the unit and remote control to play back, pause, stop, and skip songs.

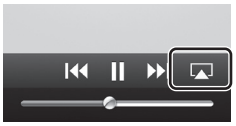
Playing iPod

1 Turn on the unit and display the playback screen on the iPod.

If the iPod recognizes the unit, is shown on the screen of the iPod.

For iPods using iOS 7, AirPlay is displayed in Control Center. To access Control Center, swipe up from the bottom of the screen.

Example on iOS6



Example on iOS7

2 Tap and select the unit's name.

The source automatically switches to "AirPlay" and playback starts.

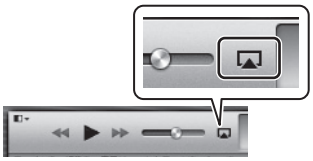
Example

Playing iTunes

1 Turn on the unit and start iTunes.

If the iTunes recognizes the unit, is shown on the screen of iTunes.

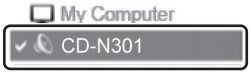
Example



2 Click and select the unit's name.

The source automatically switches to "AirPlay" (except when network standby is off).

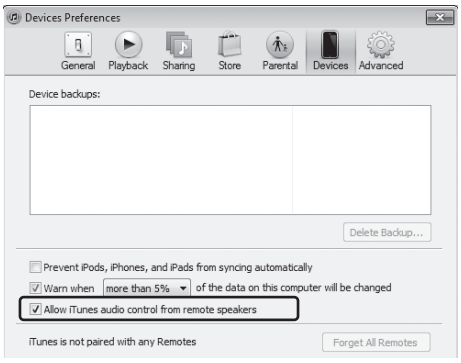
Example



3 Play back songs with iTunes.

To control iTunes playback with the remote control, you need to configure the iTunes preferences to enable iTunes control from remote speakers in advance.

Example of English version



Clearing AirPlay

1 Tap/click on the iPod/iTunes screen and select a device other than CD-N301 from the speaker list. Or, change the source to other than "AirPlay".

SETUP MENU

You can configure the various settings of this unit using the setup menu.

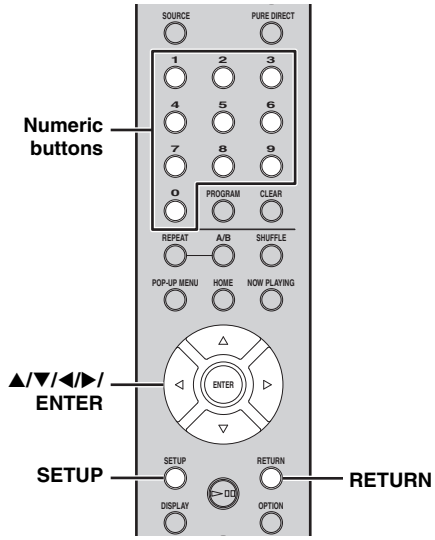
Setup menu operations

▮ Operations from the remote control

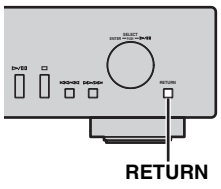
For details on the controls on the main unit or remote control, see "CONTROLS AND FUNCTIONS" (☞ P.5).

1 Press SETUP to enter the setup menu (☞ P.29).
To make the advanced setup menu items (☞ P.29) selectable, press SETUP while holding down RETURN (on the main unit).

Remote control



Main unit



Front panel display

2 Press ▲/▼ to select a menu item to configure, then press ENTER.
For some menu items, repeat step 2 to select a submenu item.

3 Press ◀/▶ to select a parameter, then press ENTER.

- You need to enter a numerical address for some menu items. In this case, press ◀/▶ to move the target and ▲/▼ to select a number, or use the numeric buttons. Then press ENTER to confirm it.
- Press the RETURN button to return to the previous level.

Setup menu items

Menu	Submenu	Settings (Bold: default)	Function
System Config	Net Standby	On, **Off**	Select "On" to enable the network standby mode.
	AutoPowerStdby	**20min**[*1], 2hours, 4hours, 8hours, 12hours, **Off**[*2]	This unit automatically enters standby mode if it is left turned on for the selected time without playback or any other operation being performed.
	Accessory	On, **Off**	Selects whether or not to supply power to a Yamaha accessory connected through the DC OUT jack.
	Firm Version		The firmware version of this unit is shown.
	Firm Update		Updates the firmware of the unit (☞ P.30).
Network Info	Network Status		The network status of this unit is shown ("Connected" or "Not connected").
	MAC Address		The MAC address of this unit is shown. The MAC address is also used as a vTuner ID.
	System ID		The system ID number is shown.
	Network Name		Shows the name of the unit that appears on the network.
Network Config	DHCP	**On**, Off	Select "On" to use the DHCP server to automatically configure the network settings of this unit or "Off" to configure manually.
	IP Address		Specify the IP address when "DHCP" is "Off". [*3]
	Subnet Mask		Specify the subnet mask when "DHCP" is "Off". [*3]
	Def. Gateway		Specify the default gateway when "DHCP" is "Off". [*3]
	DNS Server (P)		Specify the primary DNS server when "DHCP" is "Off". [*3]
	DNS Server (S)		Specify the secondary DNS server when "DHCP" is "Off". [*3]

*1 (U.K. model) Set to "20min" by default.

*2 (Australia model) Set to "Off" by default.

*3 When "DHCP" is "On", you can check the values (IP address, etc.) assigned by the DHCP server.

Advanced setup menu

The following menu items are available only when you enter the setup menu by pressing SETUP (on the remote control) while holding down RETURN (on the main unit).

Menu	Settings (Bold: default)	Function
MAC Filter	On, **Off**	Select "On" to specify the MAC addresses (up to 5) of the network components that will be permitted access to this unit ("Address1" to "Address5"). Select "Off" to disable the MAC address filter function.
Initialize		Reset the all settings of this unit to factory default. To reset the settings, press SELECT/ENTER on the front panel or ENTER on the remote control. The reset operation will be reflected the next time you turn on this unit.

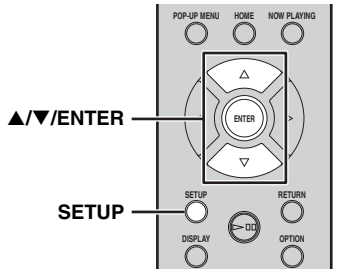
Updating the firmware

When new firmware is released, a message to update your current firmware will be shown on the front panel display (when the unit is connected to the Internet only).

1 Press SETUP.

The setup menu is shown on the front panel display.

Remote control



2 Select “System Config” with ▲/▼ and press ENTER.

3 Select “Firm Update” with ▲/▼ and press ENTER.

4 Press ENTER again.

Update starts.

When update finishes, messages are shown in the following order: “Update success.”, “Please…”, and “power off!.”

5 Unplug the power cable from the wall outlet and plug it back after about 30 seconds.

Update is applied.

Note

Do not operate the unit or disconnect the power cable and network cables while updating.

- Once the message prompting update is shown on the front panel display, it will not be shown again, even if you do not perform updating. However, when you turn on the unit after the power cable has been disconnected from the wall outlet for a while, the message will be shown.
- When Internet speed is not fast enough or the unit is connected to the wireless network via a wireless network adapter, network update may not be possible depending on the condition of the wireless connection. In this case, try again.

FREQUENTLY ASKED QUESTIONS

What kind of settings do I need to make?

→ For details on settings of your PC, NAS or mobile devices, see "SETUP OF YOUR NETWORK DEVICES" (☞ P.12).
→ For details on the setup menu on this unit, see "SETUP MENU" (☞ P.28).

Why can't I find music files on my PC?

→ Check the media sharing settings of your PC or media server, such as Windows Media Player 12 (☞ P.12).
→ Check if the music files are playable (☞ P.38).

Can I control this unit with my iPhone?

→ For details on controlling this unit from your mobile device, see "Operations from your mobile device" (☞ P.3).

I can't find this unit using the dedicated application installed on my mobile device!

→ Check if this unit is properly connected to the same network via the broadband router.
→ Check if access to this unit is restricted by MAC address filter function (☞ P.33).

What music files are playable on this unit?

→ For details on playable files and formats, see "PLAYABLE DISCS AND FILE FORMATS" (☞ P.38).

How can I listen to Internet radio on this unit?

→ For details on listening to Internet radio stations, see "PLAYBACK OF INTERNET RADIO" (☞ P.25).

How do I play back my iPod/iTunes with AirPlay?

→ For details on playback, see "PLAYBACK OF AirPlay" (☞ P.27).

What do the messages on the front panel display stand for?

→ For details on the front panel display messages, see "Front panel display messages" (☞ P.36).

For latest information, please visit Yamaha website.

TROUBLESHOOTING

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

▮ General

Problem	Cause	Remedy	Page
This unit fails to turn on.	The power cable is not connected to the AC IN socket on the main unit or not plugged into an AC outlet.	Connect the power cable firmly.	9
	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 it normally.	—
	The protection circuitry has been activated three times consecutively. When this unit is in this condition, the power indicator on the main unit blinks if you try to turn on the power.	As a safety precaution, capability to turn on the power is disabled. Contact your nearest Yamaha dealer or service center to request repair.	—
The power indicator on the front panel flashes.	There is a problem with the internal circuitries of this unit.	Turn off this unit, disconnect the power cable, then contact the nearest authorized Yamaha dealer or service center.	—
This unit suddenly turns off.	This unit entered standby mode.	This unit enters standby mode after the time set for “Auto Power Stdby” in the setup menu has elapsed.	29
No sound.	The audio cable connection between this unit and amplifier is improper.	Connect the audio cable firmly. If the problem persists, use another audio cable.	9
	The input setting on the amplifier is incorrect.	Select the correct input (from this unit) on the amplifier.	—
	The amplifier is not compatible with the digital signals.	Use an analog signal connection.	9
Noise is heard.	This unit is too close to the digital or radio-frequency equipment.	Move this unit away from such equipment.	—
	The audio cable between this unit and the media sever is defective.	Connect the audio cable firmly. If the problem persists, use another audio cable.	—

Problem	Cause	Remedy	Page
The remote control does not work or function properly.	Wrong distance or angle.	The remote control functions within a maximum range of 6 m (20 ft) and no more than 30 degrees off-axis from the front panel of the main unit.	4
	Direct sunlight or lighting is striking the remote control sensor of this unit.	Adjust the lighting angle, or reposition this unit.	—
	The batteries are weak.	Replace both batteries with new ones.	4
The amplifier control buttons on the remote control do not work on the amplifier.	Your amplifier is not one of Yamaha amplifiers. (These buttons may not work on some Yamaha amplifiers.)	Use the remote control of your amplifier.	—

▮ Network

Problem	Cause	Remedy	Page
The network feature does not function.	The network parameters (IP address) have not been obtained properly.	Enable the DHCP server function on the broadband router and set “DHCP” in the setup menu to “On” on this unit. If you want to configure the network parameters manually, check that you are using an IP address which is not used by other network devices in your network.	29
This unit does not detect the digital media server (PC).	The media sharing setting is not correct.	Configure the media sharing setting of your PC.	12
	Some security software installed on your PC is blocking the access of this unit to your PC.	Check the settings of security software installed on your PC.	—
	This unit and your PC are not in the same network.	Check the network connections and the broadband router settings, then connect this unit and your PC to the same network.	10
	Access to this unit is restricted by MAC address filter function.	Disable MAC address filter function in the setup menu of this unit.	29
	There are more than two routers in use that are overlapping among the network devices.	Disconnect the Internet connection temporarily and check via your local network, or connect the network devices you want to use to the same router.	—

Problem	Cause	Remedy	Page
The files in your PC cannot be viewed or played back.	The files are not supported by this unit or the media server.	Use the file format supported by both this unit and the media server. For details on the supported file formats by the unit, see “PLAYABLE DISCS AND FILE FORMATS”.	38
Some audio files cannot be played back on this unit.	You are trying to play back DRM audio files you purchased on iTunes Store.	You cannot play back DRM audio files you purchased on iTunes Store.	38

▮ Internet radio

Problem	Cause	Remedy	Page
The Internet radio cannot be played.	The selected Internet radio station is currently not available.	There may be a network problem at the radio station, or the service may have been stopped. Try the station later or select another station.	—
	The selected Internet radio station is currently broadcasting silence.	Some Internet radio stations broadcast silence at certain of times of the day. Try the station later or select another station.	—
	Access to the network is restricted by the firewall settings of your network devices (such as the broadband router).	Check the firewall settings of your network devices. The Internet radio can be played only when it passes through the port designated by each radio station. The port number varies depending on the radio station.	—

CD

Problem	Cause	Remedy	Page
The disc tray does not close completely.	A foreign object is obstructing the tray.	Carefully check the disc tray and remove the foreign object.	—
Disc playback does not start.	The disc is damaged.	Check the disc carefully and replace it if necessary.	—
	There is moisture on the laser pickup.	Wait 20 to 30 minutes after turning this unit on before trying to play back a disc.	—
	The disc is loaded upside down.	Reload the disc with the label side up.	—
	The disc is dirty.	Clean the disc.	38
	The format of the MP3 or WMA file is not compatible with this unit.	Replace the disc with a correctly recorded disc playable with this unit.	38
Disc playback does not start.	The CD-RW (ReWritable) disc is not recorded correctly.	Replace the disc with a correctly recorded disc playable with this unit.	38
	The disc is a non-standard disc not playable with this unit.	Replace the disc with a correctly recorded disc playable with this unit.	38
Playback is delayed, or begins at the wrong place.	The disc is scratched or damaged.	Check the disc carefully and replace it if necessary.	38
Noise from inside of the disc tray.	The disc is warped.	Replace the disc.	—

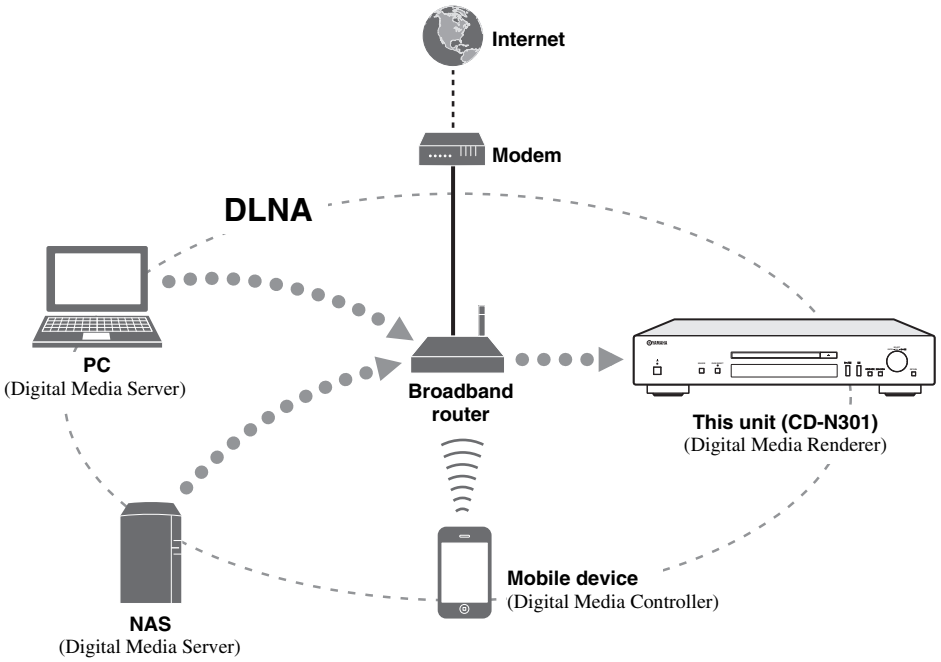
Front panel display messages

Message	Status
Access error	There is a problem with the signal path from the network to the unit.
Connected	Connected to the network.
Initializing	Initializing the network settings.
Licensing err *	Access from the outside of the region for Pandora service.
List updated	The content list of the media server has been updated.
LOADING	The specified content is being loaded.
No content	This unit cannot find any content.
NO DISC	A CD is not inserted in the disc tray.
Not available	The operation you have performed is not available.
Not Connected	Cannot connect to the network.
Not signed in *	The unit is not signed in to the Pandora service.
OPEN	The CD tray is open.
Program Clear	The programmed track has been cleared.
Searching…	This unit is searching for content.
Suspended acct *	The Pandora service account is unusable.
Unknown DISC	An unsupported disc has been inserted.
Unsupported	Cannot play the specified contents.

* Australia model only

ADDITIONAL INFORMATION

This section describes about general ideas of DLNA (Digital Living Network Alliance) and NAS (Network Attached Storage).



DLNA

"DLNA" stands for Digital Living Network Alliance, and is a guideline to promote standardization of interconnection of home network devices such as digital consumer electronics.
DLNA components are separated into four device classes: Digital Media Server (DMS), Digital Media Renderer (DMR), Digital Media Player (DMP) and Digital Media Controller (DMC).
"Digital Media Server (DMS)" is a device that is used to store or distribute digital contents such as music files. For the system using this unit, PCs and NAS are regarded as "Digital Media Server (DMS)".
"Digital Media Controller (DMC)" is a device to control digital contents. The dedicated mobile device application corresponds to "Digital Media Controller (DMC)" for the system using this unit.
"Digital Media Renderer (DMR)" is a device to receive instructions from "Digital Media Controller (DMC)" and play back digital contents such as this unit.
Similarly, "Digital Media Player (DMP)" is a device that can play back digital contents stored on "Digital Media Server (DMS)".

NAS

"NAS" stands for Network Attached Storage. By connecting your NAS and home network with a network cable directly, NAS can be a storage device, such as a hard disc drive. If your NAS is compatible with DLNA, you can share your music, pictures, or movies on the same home network as a digital media server.

PLAYABLE DISCS AND FILE FORMATS

Playable media and devices

Supported PC

PC with Windows Media Player 11 or Windows Media Player 12 installed.

Supported NAS

NAS that is compatible with DLNA version 1.5.

Supported mobile devices

For details, please visit Yamaha website.

Playable discs

Use compact discs bearing the marks below.

Mark	Details
COMPACT disc DIGITAL AUDIO	**Compact discs (digital audio)**
COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable	**CD-R, CD-RW digital audio discs** • CD-R or CD-RW discs bearing one of the following phrases. FOR CONSUMER FOR CONSUMER USE FOR MUSIC USE ONLY • Finalized CD-R or CD-RW discs only. ***Note*** This unit may not be able to play some CD-R/CD-RW discs or discs on which recording was not made correctly.
COMPACT disc DIGITAL AUDIO TEXT	**CD-TEXT discs** The disc title, artist name, and track name are also displayed in addition to the time displays when playing back a CD with CD TEXT.

To play back an 8-cm (3-inch) CD

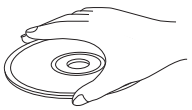
Place it in the inner recessed area of the disc tray. Do not put a normal 12-cm (5-inch) CD on top of an 8-cm (3-inch) CD.

Notes

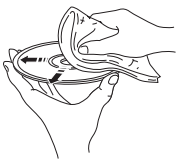
- Do not use any nonstandard shaped disc (heart, etc.) available on the market because it might damage the unit.
- Do not use a disc with tape, stickers, or paste on it. If you use such a disc, the disc may get stuck in the unit, or damage to the unit may result.

About handling discs

- Always handle with care so that the playing surface is not scratched. Do not warp discs.



- To keep clean the playing surface, wipe with a clean, dry cloth. Do not use any type of disc cleaner, spray, or any other chemical-based liquid.
- Do not wipe with a circular motion; wipe straight outward from the center.



- Use a soft-tipped pen when writing on the label side of the disc.
- When a disc is not being used, remove it from this unit and store in an appropriate case.
- Do not expose discs to direct sunlight, high temperature or high humidity for a long time.

Note

Do not use any lens cleaners as they may be a cause of malfunction.

Playable discs and file formats

DLNA

Formats	Sampling frequency (kHz)	Quontization bit
WAV*1	8 to 192	16/24
MP3*2	8 to 48	16
WMA*3	8 to 48	16
AAC	8 to 48	16
FLAC	8 to 192	16/24

*1 Only Linear PCM format files are playable.
*2 MP3 PRO files are not supported.
*3 WMA PRO and Lossless files are not supported.

Discs

Formats	Sampling frequency (kHz)	Quontization bit
MP3	8 to 48	16
WMA	16 to 48	16

Notes

- Playback for MP3 or WMA files starts in alphanumeric order.
- Copyright-protected WMA (DRM) files cannot be played back by this unit.
- The disc must be ISO 9660 compatible.
- Elapsed time may not be displayed correctly while playing back variable bitrate contents.

SPECIFICATIONS

INPUT/OUTPUT

- NETWORK
  - Ethernet connection 10Base-T/100Base-TX
  - Internet radio ..... vTuner service supported
  - PC client function ..... DLNA Ver.1.5 (DMR function)
  - AirPlay ..... AirPlay supported
- ANALOG OUT ..... 2ch (L/R)
- DIGITAL OUT
  - Optical ..... × 1
  - Coaxial ..... × 1
- DC OUT ..... × 1

AUDIO SECTION

- Output level
  - 1 kHz, 0 dB, fs 44.1 kHz ..... 2.0 ± 0.3 V
- Signal to noise ratio (IHF-A network)
  - 1 kHz, 0 dB, fs 44.1 kHz ..... 110 dB or more
- Dynamic range
  - 1 kHz, 0 dB, fs 44.1 kHz ..... 100 dB or more
- Harmonic distortion
  - 1 kHz, 0 dB, fs 44.1 kHz ..... 0.003% or less
- Frequency response
  - CD ..... 2 Hz to 20 kHz, –3 dB
  - NETWORK
  - fs 48 kHz ..... 2 Hz to 24 kHz, –3 dB
  - fs 96 kHz ..... 2 Hz to 48 kHz, –3 dB
  - fs 192 kHz ..... 2 Hz to 96 kHz, –3 dB

GENERAL

- Power supply
  - [Australia model] ..... AC 240 V, 50 Hz
  - [U.K. model] ..... AC 230 V, 50 Hz
- Power consumption ..... 10 W
- Standby power consumption
  - Network standby On ..... 2.5 W
  - Network standby Off ..... 0.4 W
- Dimensions (W × H × D) ..... 435 × 86 × 260 mm
- Weight ..... 3.2 kg

* Please note that all specifications are subject to change without notice.

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This code grew slowly over time without much design or planning, with features being tacked on as required.

It's not representative of my normal coding style.

About FLAC codec Library

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FastDelegate

http://www.codeproject.com/KB/cpp/FastDelegate.aspx

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libogg

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libvorbis

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Tremolo

http://wss.co.uk/pinknoise/tremolo

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Mersenne Twister

http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/CODES/mt19937ar.c

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zlib

http://www.zlib.net/

zlib.h -- interface of the ‘zlib’ general purpose compression library version 1.2.3, July 18th, 2005

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cURL

http://curl.haxx.se

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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.

[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.

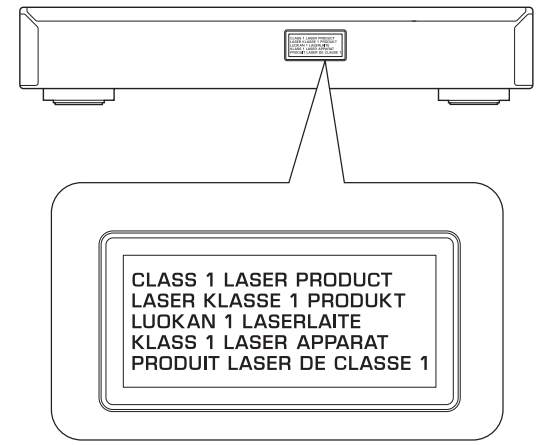
Note for the battery symbol (bottom two symbol examples):

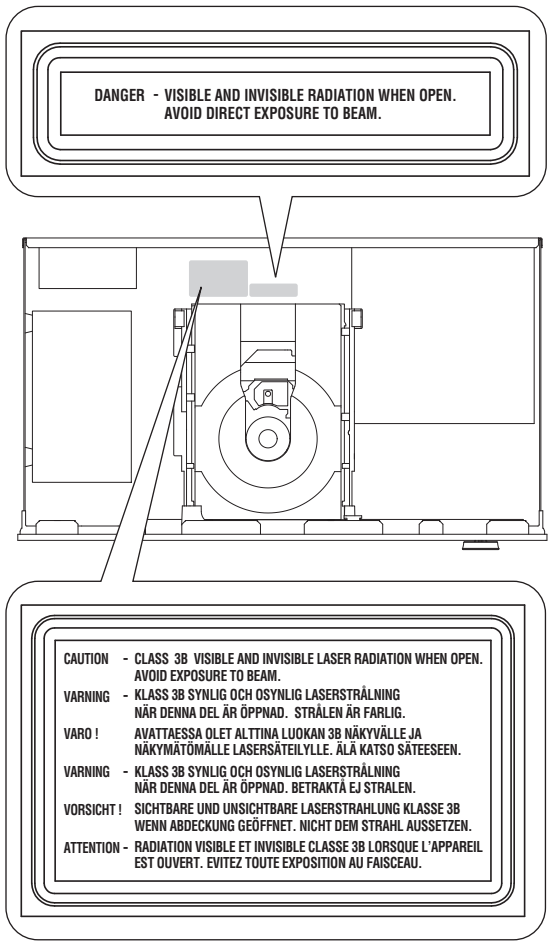
Pb

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.

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.





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.

LASER	
Type	Semiconductor laser GaAs/GaAlAs
Wave length	790 nm
Output Power	10 mW

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

AVEEA71102A

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

English

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/

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