

MCR-940

(R-840 + BD-940 + NS-BP300)

RECEIVER/BLU-RAY DISC PLAYER



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 and away from direct sunlight, heat sources, vibration, dust, moisture and cold. For proper ventilation, allow the following minimum clearances.
Top: 30 cm (R-840 Only)
Rear: 10 cm
Sides: 10 cm
- 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 \odot 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.
- 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 \odot . 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.

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.

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

LASER Specification:

Class 1 LASER Product

Wave length: 788 nm (CDs)/654 nm (DVDs)/405 nm (BDs)

Laser power: No hazardous radiation is emitted with the safety protection

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INTRODUCTION

PREPARATION

BASIC
OPERATIONS

TUNER
OPERATIONS

OTHER
OPERATIONS

ADDITIONAL
INFORMATION

English

FEATURES


Receiver (R-840)

- Minimum RMS output power per channel 65W + 65W (6Ω, 1kHz, 10% THD)
- 30-station DAB preset tuning
- 30-station FM preset tuning
- iPod playability (with rechargeable function)
- Pure Direct mode
- Adjustable display brightness

BD player (BD-940)

- Plays Blu-ray Discs, DVDs, Audio CDs
- Supports BD-LIVE. When using a BD-LIVE compatible disc, you can connect the BD player to the Internet and download various data
- Supports HDMI control function. You can operate the receiver and BD player with a TV remote control connected by an HDMI cable
- Linked operation with the receiver such as Pure Direct mode, adjustable display brightness and INPUT mode

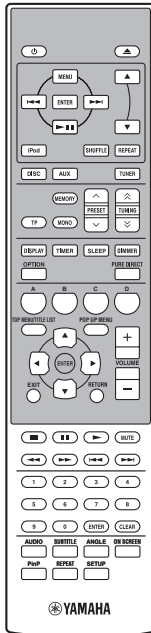
■ About this manual

- In this manual, “R-840” is described as “receiver” and “BD-940” is described as “BD player”.
- This manual describes how to operate the system using a remote control except when it is not available. Some of these operations are also available using the front panel buttons.
-  indicates a tip for your operation.
- Notes contain important information about safety and operating instructions.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and the product, the product has priority.

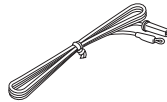
SUPPLIED ACCESSORIES

This product includes the following accessories. Before connecting this system, make sure you received all of the following parts.

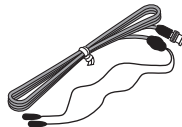
Remote control



Indoor FM antenna



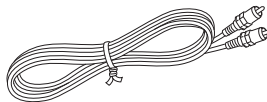
Indoor DAB antenna



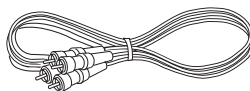
System control cable (0.6 m)



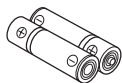
Composite video cable (1.5 m)



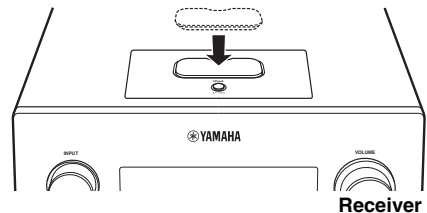
RCA stereo cable (1.0 m)



Batteries (x2)
(AAA, R03, UM-4)



Dock cover*



* The Dock cover is supplied with this unit to cover the iPod dock when not in use.

ABOUT DISCS





Types of Discs that Can Be Used with This Player

- The following discs can be played back in this Player. Do not use an 8 cm (3") to 12 cm (5") adapter.
- Use discs that conform to compatible standards as indicated by the presence of official logos on the disc label. Playback of discs not complying with these standards is not guaranteed. In addition, the image quality or sound quality is not guaranteed even if the discs can be played back.

Disc Type	Recording Format	Contents	Disc Size
BD video	--	Audio + Video (Movie)	12 cm (5") 8 cm (3")
BD-RE DL BD-R DL	BDMV format		
DVD Video	Video format	Audio + Video (Movie)	12 cm (5") 8 cm (3")
DVD+RW/ DVD+R DVD+R DL DVD-R DL DVD-RW/ DVD-R	Video/VR/ AVCHD format (finalized disc only)	Audio + Video (Movie)	12 cm (5") 8 cm (3")
Audio CD*1	Audio CD (CD-DA)	Audio	12 cm (5") 8 cm (3")
CD-RW/CD-R	Audio CD (CD-DA)	Audio	
		JPEG*2	Still image (JPEG file)

*1 This Player has been designed on the premise of playing back Audio CDs that comply with CD (Compact Disc) standards. CDs containing a signal for the purpose of protecting copyrights (copy control signal) may not be able to be played back with this Player.

*2 See "ABOUT THE JPEG FILE FORMAT" on page 52.

Region management information		
Model	BD-Video	DVD-Video
Europe	Region code "B" or "ALL" 	Region number "2" or "ALL" 
Russia	Region code "C" or "ALL" 	Region number "5" or "ALL" 

- BD/DVD video players and discs have region codes, which dictate the regions in which a disc can be played.
- BD/DVD Video operations and functions may be different from the explanations in this manual and some operations may be prohibited due to disc manufacturer's settings.
- If a menu screen or operating instructions are displayed during playback of a disc, follow the operating procedure displayed.
- The audio component of a DVD video recorded at 96 kHz (Linear PCM) will be output as 48 kHz audio during playback.

Notes

- Playback for some of the discs in the left side column tables may not be possible depending on the disc.
- "Finalize" refers to a recorder processing a recorded disc so that it will play in other BD players/recorders as well as this player. Only finalized DVD discs will play back in this player. (This player does not have a function to finalize discs.)

Discs that Cannot Be Used with This Player

The following discs cannot be played back or will not play back properly on this Player. If such a disc is mistakenly played back, speaker damage may occur.

CDG, Video CD, Photo CD, CD-ROM, SVCD, SA-CD, PD, CDV, CVD, DVD-RAM, DVD-Audio, BD-RE with the cartridge, CD-MP3, CD-WMA

Discs with unusual shapes cannot be played.

Discs with unusual shapes (heart-shaped or hexagonal discs, etc.) cannot be used. The use of such discs will cause malfunction.

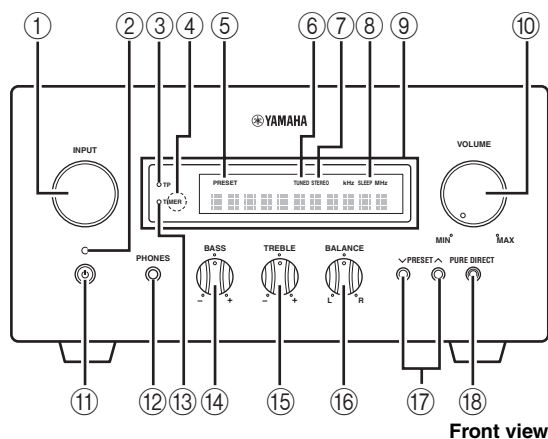
The following BD/DVD video discs cannot be played.

- Discs not match the region code/number of this Player.
- Discs produced illegally.
- Discs recorded for commercial use.

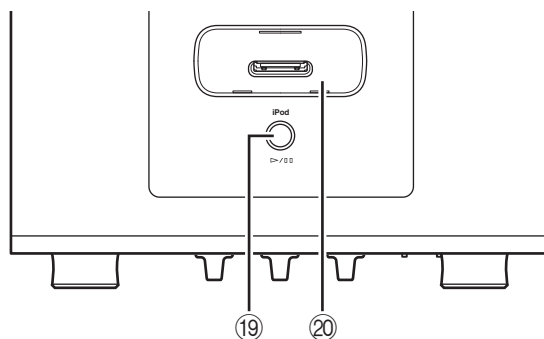
CONTROLS AND FUNCTIONS

Receiver (R-840)

■ Front panel



Front view



Top view

① INPUT

Selects an input source.

② On/Standby indicator

Lights up in green when the receiver is turned on. Lights up in amber when the receiver is in standby mode.

③ TP indicator

Lights up when the receiver is receiving a Radio Data System station which contains the TP (Traffic Program) data service (p.33).

④ Remote control sensor

Receives signals from the remote control.

⑤ PRESET indicator

Lights up when you select preset radio stations (p.27, p.31).

⑥ TUNED indicator

Lights up when the receiver is tuned into a station.

⑦ STEREO indicator

Lights up when the receiver is receiving a strong signal from a DAB/FM stereo broadcast.

⑧ SLEEP indicator

Lights up when the sleep timer is on (p.35).

⑨ Front panel display

Shows the various information such as the tuning frequency.

⑩ VOLUME

Adjusts the volume level.

⑪ ⏻ (On/Standby)

Turns the receiver on or sets it to standby mode.

⑫ PHONES jack

Outputs audio signals for private listening with headphones.

⑬ TIMER indicator

Lights up when the timer is set (p.34).

⑭ BASS

Adjusts the low frequency response (p.15).

⑮ TREBLE

Adjusts the high frequency response (p.15).

⑯ BALANCE

Adjusts the audio output balance of the left to right speakers to compensate for imbalances caused by speaker locations or listening room conditions.

⑰ PRESET ∨ / ∧

Selects a preset station. The input source is changed to either DAB or FM, whichever was last selected. Operable even when the receiver is in standby mode (p.27, p.31).

⑱ PURE DIRECT

Turns on or off Pure Direct mode (p.15).

When Pure Direct mode is on, the indicator lights up in blue.

⑳ ▷ / ⏸

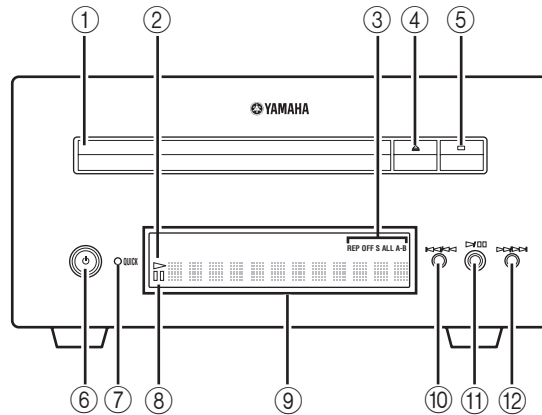
Starts and pauses the playback of iPod. The input source is changed to iPod. Operable even when the receiver is in standby mode.

⑳ iPod dock

Connect your iPod (p.10).

BD player (BD-940)

■ Front panel



① Disc tray

Holds a disc to be played back.

② ▷ (play) indicator

Appears during playback.

③ REP OFF S ALL A-B indicator

Lights up when Repeat play mode is selected.

④ ≡

Opens and closes the disc tray.

When this button is pressed during standby mode, the receiver automatically turns on and the input source changes to DISC.

⑤ □

Stops playback (☞p.17).

⑥ ⏻ (On/Standby)

Turns on the BD player or sets it to standby mode.

When this button is pressed during standby mode, the receiver automatically turns on and the input source changes to DISC.



If the BD player does not operate properly for some reason, you can reboot it by holding down this button for about 10 seconds and pressing it again.

⑦ QUICK indicator

Light up in standby mode when Quick Start function is on (☞p.39).

Flashes after you connect the power cable to the AC wall outlet until the BD player enters standby mode.

⑧ ||| (pause) indicator

Lights up while the BD player is paused.

⑨ Front panel display

Shows the current status of the BD player.

⑩ ⏮⏮⏮

Returns to the beginning of the current chapter or track. Press and hold to fast reverse. Press twice to skip to the previous chapter or track (☞p.18).

⑪ ▷|||

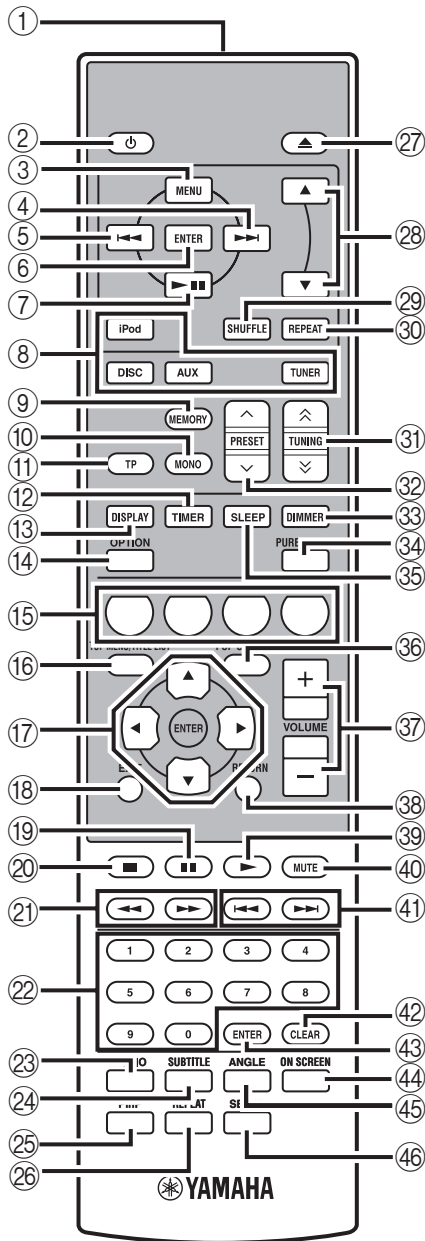
Starts or pauses playback (☞p.17).

When this button is pressed during standby mode, the receiver automatically turns on and the input source changes to DISC.

⑫ ▷▷▷

Skips to the next chapter or track. Press and hold to fast forward (☞p.18).

Remote control



This remote control can operate the system components (including tuner functions) and an iPod stationed in the iPod dock on the top of the receiver.

To operate the BD player, tuner functions, or an iPod using the remote control, you need to set the receiver to corresponding input mode (see ⑧ Input selection keys).

To operate your iPod

Press the corresponding iPod operation key on the remote control.

The iPod operation keys are indicated with **iPod** in the section below. See page 36 for more information on the operation of your iPod.

① Infrared signal transmitter

Sends signals to the system you want to control.

② **⏻ (On/Standby)**

Turns the system on or sets it to standby mode.

③ **MENU iPod**

Returns to the upper level in the iPod menu.

④ **▶▶ iPod**

Skips to the next song. Press and hold to fast forward.

⑤ **◀◀ iPod**

Skips to the beginning of the current track. Press twice to skip back to the previous track. Press and hold to fast reverse.

⑥ **ENTER iPod**

Press ENTER to enter the selected group. (Pressing ENTER starts playback when a song is selected.)

⑦ **▶/|| iPod**

Starts or Pauses Playback.

⑧ **Input selection keys**

Selects the input source on the receiver. When selecting an input source, press the corresponding input selection key (or turn INPUT on the front panel). The name of the corresponding input source appears on the front panel display of the receiver. Each time you press TUNER, the input switches between DAB and FM.



When DISC is selected as an input source, the BD player turns on automatically and when other input source is selected, the BD player sets to standby mode.

⑨ **MEMORY**

Stores a preset station in the memory (see p.27, p.31). Starts Automatic preset tuning (see p.30).

⑩ **MONO**

Sets FM broadcasting receiving mode to monaural mode.

- ⑪ **TP**
Enters TP (Traffic Program) data service receiving mode (p.33).
- ⑫ **TIMER**
Shows the current time on the front panel display of the receiver.
And sets the clock (p.12) or the timer (p.34).
- ⑬ **DISPLAY**
Switches the information shown on the front panel display of the receiver or the TV screen for the BD player (p.23, p.27, p.32).
- ⑭ **OPTION**
Enters option menu mode.
See pages 28, 31, 33 and 45 for option menu items.
- ⑮ **A/B/C/D**
Used when input source is set to DISC.
- ⑯ **TOP MENU/TITLE LIST**
Displays the BD/DVD's top menu (p.18).
- ⑰ **▲, ▼, ◀, ▶, ENTER**
For selecting and confirming an item.
- ⑱ **EXIT**
Exits the menu screen.
- ⑲ **■**
Pauses playback (p.17).
- ⑳ **■**
Stops playback (p.17).
- ㉑ **◀◀, ▶▶**
Rewind and fast-forward.
- ㉒ **Numeric keys**
Input numbers.
- ㉓ **AUDIO**
Selects the audio format and soundtrack (p.19).
- ㉔ **SUBTITLE**
Selects subtitles (p.19).
- ㉕ **P in P**
Uses the Picture in Picture function (p.24).
- ㉖ **REPEAT**
Selects Repeat Play mode (p.19).
- ㉗ **▲**
Opens and closes the disc tray.
- ㉘ **▲, ▼ iPod**
Press ▲ or ▼ to switch an item in the selected group (p.36).
- ㉙ **SHUFFLE iPod**
Selects mode of Shuffle Play (p.36).
- ㉚ **REPEAT iPod**
Selects mode of Repeat Play (p.36).
- ㉛ **TUNING ▲/▼**
Press TUNING ▲/▼ to Manual tuning and press and hold TUNING ▲/▼ to Automatic tuning (p.26, p.30).
- ㉜ **PRESET ▲/▼**
Select a preset station (p.27, p.31).
- ㉝ **DIMMER**
Changes the brightness of the front panel display (p.16).
- ㉞ **PURE DIRECT**
Turns on or off Pure Direct mode (p.15).
- ㉟ **SLEEP**
Sets the sleep timer on the system (p.35).
- ㊱ **POP UP MENU**
Displays the BD's pop-up menu (p.18).
- ㊲ **VOLUME +/-**
Adjusts the overall volume level on the receiver.
- ㊳ **RETURN**
Returns to the previous menu (p.17).
- ㊴ **▶**
Starts playback (p.17).
- ㊵ **MUTE**
Turn off the volume (p.16).
- ㊶ **◀◀, ▶▶**
Skips to the beginning of the current or next chapter or track.
- ㊷ **CLEAR**
Clears an entry.
- ㊸ **ENTER**
Confirms an entry.
- ㊹ **ON SCREEN**
Displays disc information on-screen (p.23).
- ㊺ **ANGLE**
Selects an camera angle (p.19).
- ㊻ **SETUP**
Displays the Setup menu (p.13).

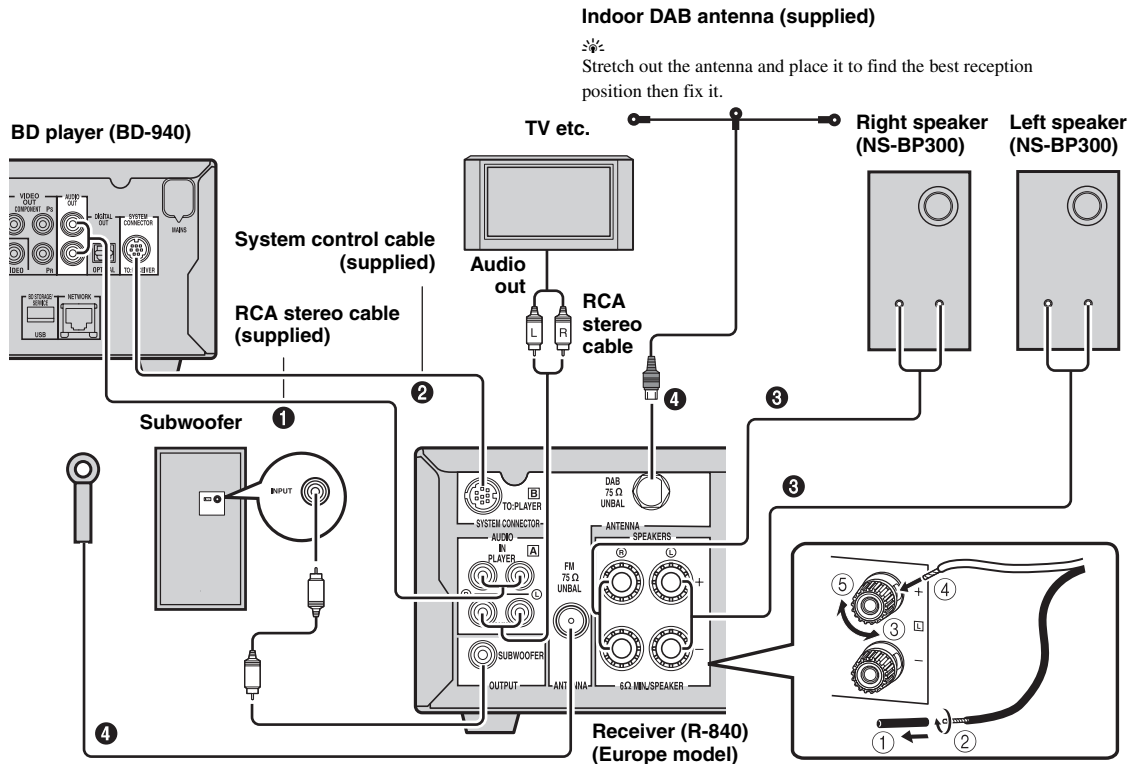
PREPARATIONS

Connecting speakers/external components/antennas

Make sure you read the following procedure and note carefully before connecting the system. **The remote control and linked operation of the system only work when the receiver and the BD player are connected via the system control cable.** For information on the speakers (NS-BP300), refer to the owner's manual supplied with it.

Connecting the system

- 1 Connect the AUDIO IN (A) PLAYER L/R jacks of the receiver to the AUDIO OUT (A) L/R jacks of the BD player using the supplied audio RCA stereo cable.
- 2 Connect the SYSTEM CONNECTOR (B) TO:PLAYER jack of the receiver to the SYSTEM CONNECTOR (B) TO:RECEIVER jack of the BD player using the supplied system control cable.
- 3 Connect the speaker terminals (L) of the receiver to the speaker terminals of the left speaker and the speaker terminals (R) of the receiver to the speaker terminals of the right speaker using the speaker cables supplied with the speaker set (NS-BP300).
- 4 Connect the supplied FM antenna to the FM jack, and DAB antenna to the DAB jack.



CAUTION

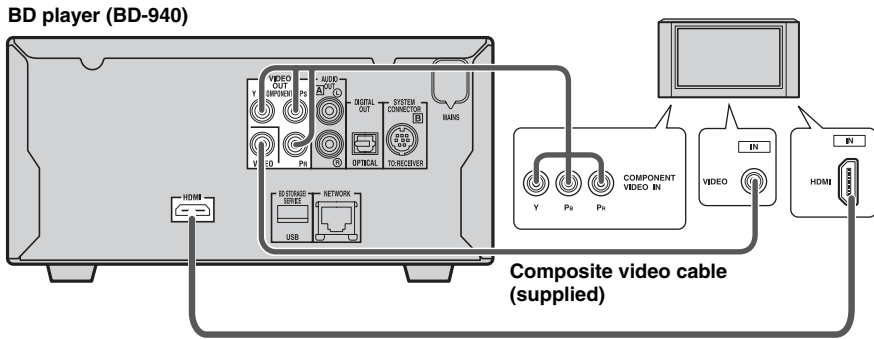
- Do not connect this unit or other components to the main power until all connections between components are complete.
- Do not let the bare speaker wires touch each other or any metal part of the receiver. This could damage the receiver and/or the speakers.
- All connections must be correct: L (left) to L, R (right) to R, “+” to “+” and “-” to “-”. If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound will be unnatural and lack bass. Also, refer to the owner's manual for each of your components.

Notes

- The system control connection is used to transmit the remote control signals from the receiver to the BD player.
- When connecting speakers other than NS-BP300, use speakers having more than 6Ω impedance.
- If there is a problem of weak radio wave reception in your area or you want to improve radio reception, we recommend that you use commercially available outdoor antennas. For details, consult the nearest authorized Yamaha dealer or service center.

Connecting a TV to the system

- ① Connect the system and your TV via the HDMI jack, COMPONENT jacks or VIDEO jack of the BD player and the corresponding jack(s) of your TV.
- ② Set “TV screen” according to your TV (see “Setting the TV display” on page 13).



When connecting the system and your TV via the COMPONENT jacks, set the BD player as described in “Video Out Select” (p.37).

When connecting the system and your TV via the HDMI jacks, set “HDMI Video Out” and “Audio Out” of “Audio Video Settings” in the “Settings” menu (p.37, 38).

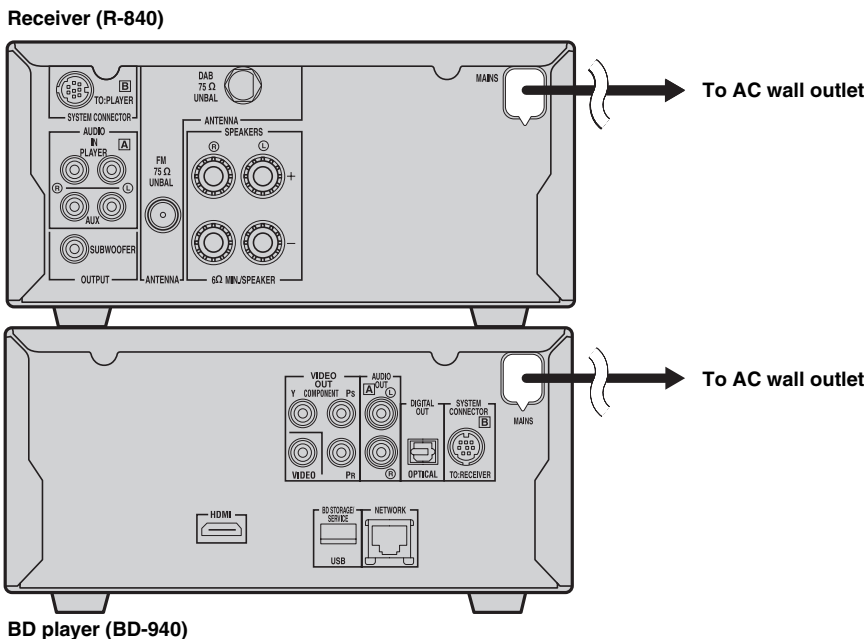
When connecting the system and your TV via the HDMI jacks, use HIGH SPEED HDMI cables that have the HDMI logo (as shown on the cover).

Connecting a recorder (CDR, MDR, etc.), AV receiver or decoder (CDR, MDR, etc.)

You can output audio from the DIGITAL OUT jack and record it digitally on another device, or transmit audio signal to an AV receiver or decoder to enjoy multichannel source audio.

Connecting power cables

After you made all connections, connect the power cables of this system and other components to AC wall outlets.

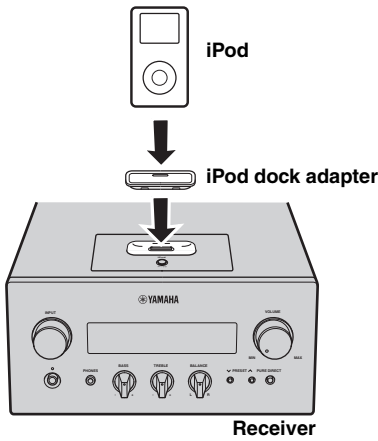


Connecting an iPod™

The receiver is equipped with the iPod dock on the top panel where you can station your iPod and control playback of your iPod using the supplied remote control. Use this receiver with iPod dock adapter (supplied with your iPod or commercially available) appropriate for your iPod. If you use this receiver without using an appropriate iPod dock adapter, loose connection may result.



When the receiver is turned on or in standby mode, connect the iPod during the playback. The receiver automatically starts playback of iPod (for the fifth or later generation of iPod, iPod touch, iPod Classic, or iPod nano).



Notes

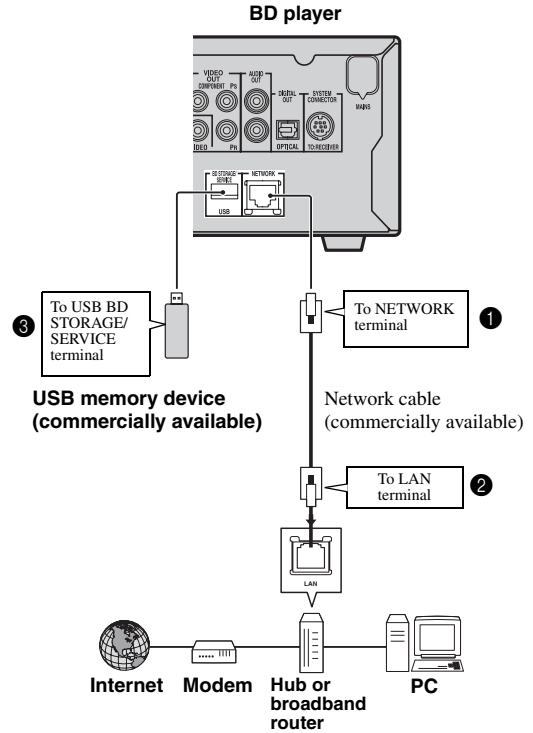
- Only iPod (Click and Wheel), iPod nano, iPod Classic, iPod mini and iPod touch are supported.
- Do not connect any iPod accessories (such as headphones, a wired remote control, or an FM transmitter) to your iPod when it is stationed in the iPod dock.
- Unless your iPod is firmly stationed in the iPod dock, audio signals may not be output properly.
- Once the connection between your iPod and the receiver is complete and the receiver is set to iPod mode (p.6), “CONNECTED” appears on the front panel display. If the connection between your iPod and the receiver fails, a status message appears on the front panel display. For a complete list of connection status message, see the iPod section in “TROUBLESHOOTING” (p.46).
- When your iPod is stationed in the iPod dock of the receiver, your iPod can be charged automatically even when the receiver is in standby mode.
- You can disconnect the iPod during the playback.

Connecting to the Internet

You can enjoy a variety of contents with interactive functions by connecting to the internet when playing BD-LIVE compatible discs. See pages 24 and 40 regarding further information on BD-LIVE functions.

CAUTION

Be sure to turn off the BD player and the equipment before making any connections.



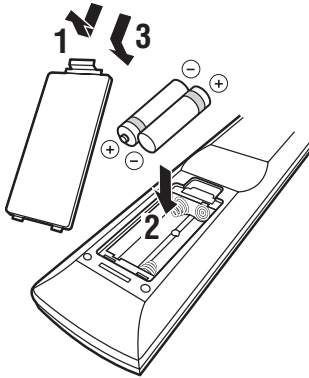
Notes

- You can connect a USB memory device (2GB or greater and formatted with FAT 32/16) to the USB BD STORAGE/SERVICE terminal to save the BD-LIVE data or to update the software of the BD player.
- A broadband internet connection is required.
- When using a broadband internet connection, a contract with an internet service provider is required. For more details, contact your nearest internet service provider.
- Refer to the operation manual of the equipment you have as the connected equipment and connection method may differ depending on your internet environment.
- Use a network cable/router supporting 10BASE-T/100BASE-TX/1000BASE-T.
- Use only an STP (shielded twisted pair) network cable.

■ After connecting

- Perform the communication setting (p.40).
- Load a BD-LIVE compatible disc and play back the contents (p.24).

Installing the batteries in the remote control

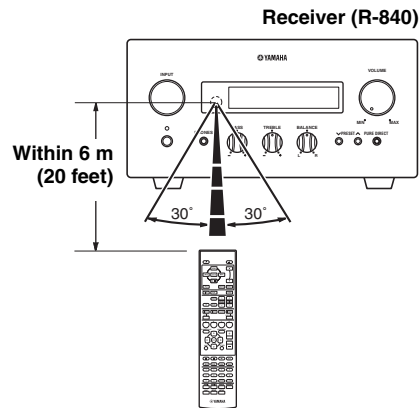


Notes on batteries

- Change both batteries when the operation range of the remote control decreases.
- Use AAA, R03, UM-4 batteries.
- Make sure that the polarities are correct. See the illustration inside the battery compartment.
- Remove the batteries if the remote control is not to be used for an extended period of time.
- 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.
- 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.
- Do not throw away batteries with general house waste; dispose of them correctly in accordance with your local regulations.

Using the remote control

The remote control transmits a directional infrared beam. Be sure to aim the remote control directly at the remote control sensor on the front panel of the receiver during operation.



Notes

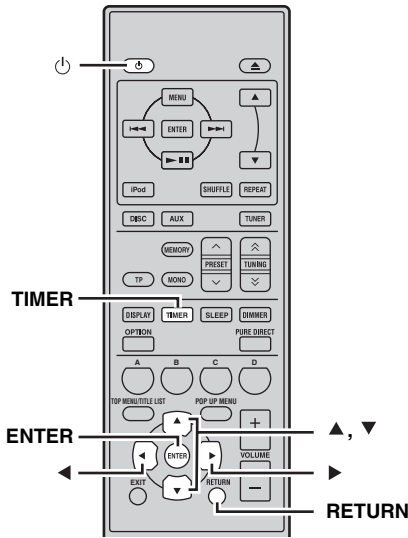
- The area between the remote control and the receiver must be clear of large obstacles.
- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.
- Do not leave or store the remote control in the following types of conditions:
 - high humidity, such as near a bath
 - high temperature, such as near a heater or a stove
 - extremely low temperatures
 - dusty places.
- Do not expose the remote control sensor to strong lighting, in particular, an inverter type fluorescent lamp; otherwise, the remote control may not work properly. If necessary, position the system away from direct lighting.

Adjusting the Clock

Before starting playback operation, follow the procedure below to adjust the clock setting of the receiver.

Notes

- Use the remote control to set the clock. You cannot set the clock with the buttons on the receiver.
- The receiver supports 24-hour clock display.
- If you do not touch any key for 90 seconds, the receiver returns to normal mode.



1 Press to turn the receiver on.

The front panel display lights up.

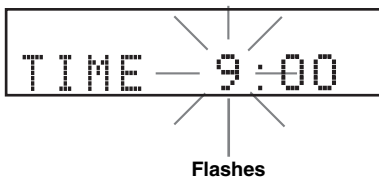
2 Press **TIMER** to show the current time.

If the clock is not set, "SET TIME" flashes on the display.

Press **ENTER** to proceed to step 3.

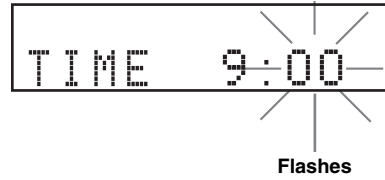
3 Press / to select "TIME", and press **ENTER**.

The receiver enters clock setting mode. The hour digits start flashing.



4 Set the hour using /, and press .

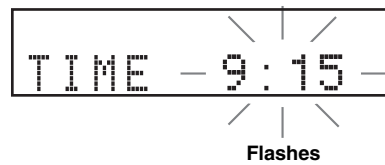
The minute digits start flashing.



5 Set the minutes using /, and press **ENTER**.

The hour and minute digits start flashing.

To change the hour or minutes again, press or , do steps 4 and 5, and proceed to step 6.



6 Press **ENTER**.

The clock is set.

The hour and minute segments stop flashing and remain on. The receiver returns to normal mode.



You can return to the previous screen by pressing or **RETURN**.

SETTING THE SYSTEM

Turn on the TV and the system

Make sure that you have completed all the necessary connections (see “Connecting a TV to the system” on page 9).

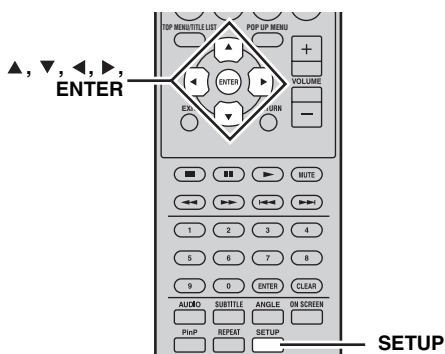
1 Turn on the TV to which the BD player is connected.
Select the TV input to match the input connected to the BD player.

2 Press  to turn on the receiver.

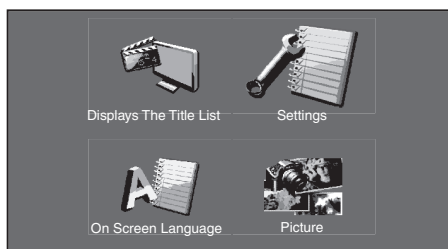
3 Press DISC.


Setting the TV display

Set the aspect ratio of the BD player according to the TV you have connected (see p.37).




1 Press SETUP.
The setup menu appears on the screen.




2 Press  to select “Settings”, and then press ENTER.

Audio Video Settings
Quick Start
Auto Power Off
HDMI Control
Playback Setting
Communication Setup
Version
USB Memory Management
Software Update
System Reset

3 Press  to select “Audio Video Settings”, and then press ENTER.

4 Press  to select “TV Aspect Ratio”, and then press ENTER.

5 Press  to select the aspect ratio of the TV and then press ENTER.
For details on the aspect ratio option, see page 37.

6 Press SETUP or EXIT to exit the setup menu.





You can return the previous menu by pressing RETURN.

On-screen display (OSD) language

You can select your preferred language settings so that the BD player will automatically switch to your preferred language whenever you load a disc. If the language selected is not available on the disc, the disc’s default setting language will be used instead. The OSD (on-screen display) language for the BD/DVD setup menu will remain as you set it, regardless of various disc languages.

1 Press SETUP.

2 Press  to select “On Screen Language”, and then press ENTER.

3 Press  to select a language, and then press ENTER.

Audio, Subtitle and Disc menu languages

-
- 1** Press **SETUP**.

 - 2** Press **▲/▼/◀/▶** to select “Settings”, and then press **ENTER**.

 - 3** Press **▲/▼** to select “Playback Setting”, and then press **ENTER**.

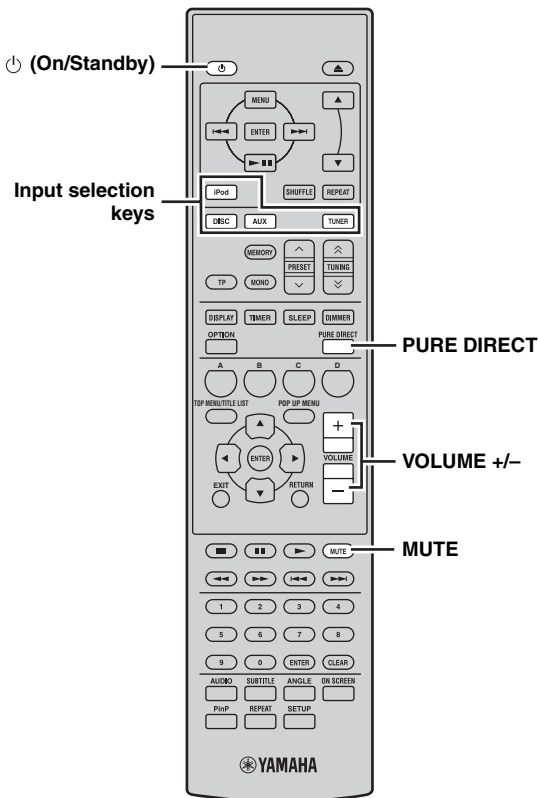
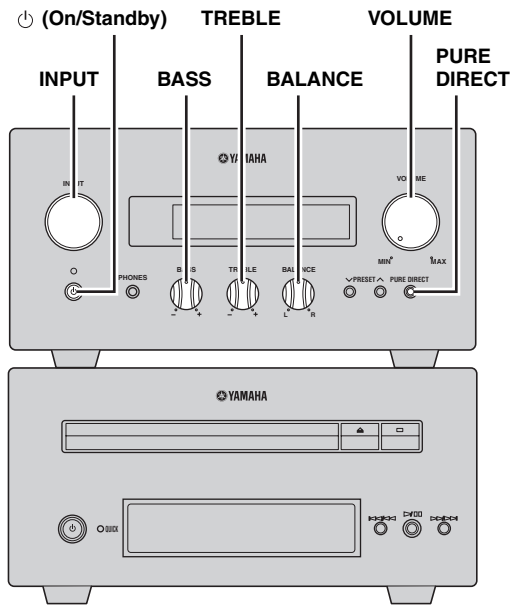
 - 4** Press **▲/▼** to select “Disc Language”, and then press **ENTER**.

 - 5** Press **▲/▼** to select the item below.
 - Subtitle
 - Audio
 - Menu

 - 6** Press **◀/▶** to select a language, and then press **ENTER**.

SYSTEM OPERATIONS

Follow the procedure below to select an input source and adjust the sound settings on the system.



Basic system operations

- 1 Press **On/Standby** to turn on the receiver. Depending on input mode of the receiver, the BD player also turns on by the system control connection (p.8). The front panel display lights up.
- 2 Press one of the input selection keys (or rotate **INPUT** on the front panel) to select the desired input source.
- 3 Start playback on the selected source component or select a radio station. For information on the disc playback, see page 17, and for information on tuning, see pages 26 and 30.
- 4 Press **VOLUME +/-** (or turn **VOLUME** on the front panel) to adjust the volume to the desired output level.
- 5 Rotate **BASS**, **TREBLE**, or **BALANCE** on the front panel of the receiver to adjust the following settings.
 - BASS:** Adjusts the low frequency response.
 - TREBLE:** Adjusts the high frequency response.
 - BALANCE:** Adjusts the volume level of each left and right speaker channel.

■ Pure Direct mode

Pure Direct mode bypasses the tone control circuit and turns off the front panel display, allowing you to enjoy pure high-fidelity sound.

Press PURE DIRECT (or PURE DIRECT on the front panel) to turn on Pure Direct mode.

The front panel display automatically turns off. PURE DIRECT on the front panel is backlit in blue.

Notes

- If you carry out operations while Pure Direct mode is turned on, the front panel display of the receiver lights up briefly to acknowledge the command.
- While the Pure Direct mode is turned on, neither BASS, TREBLE, nor BALANCE is available.

To turn off Pure Direct mode

Press PURE DIRECT again. The PURE DIRECT backlight turns off and the front panel display turns on.

■ Muting the sound (MUTE)

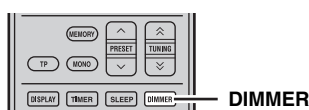
Press MUTE to reduce the current volume level by approximately 20dB.

“MUTE ON” appears on the front panel display.

Press MUTE again to restore the audio output to the previous volume level.

Changing the brightness of the front panel display

You can dim the front panel display of the receiver. The front panel display of the BD player also dims by the system control connection (p.8). (The default setting is “DIMMER OFF”.)



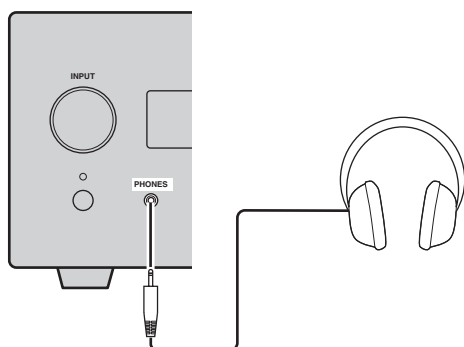
Press DIMMER.

You can choose your desired brightness of the front panel display between normal (bright), mid dim, and dim.

To use headphones

You can connect your headphones to the PHONES jack on the front panel of the receiver.

The sound from the speakers and the subwoofer stops.



DISC OPERATIONS

This chapter explains how to play discs.

Using the on-screen display

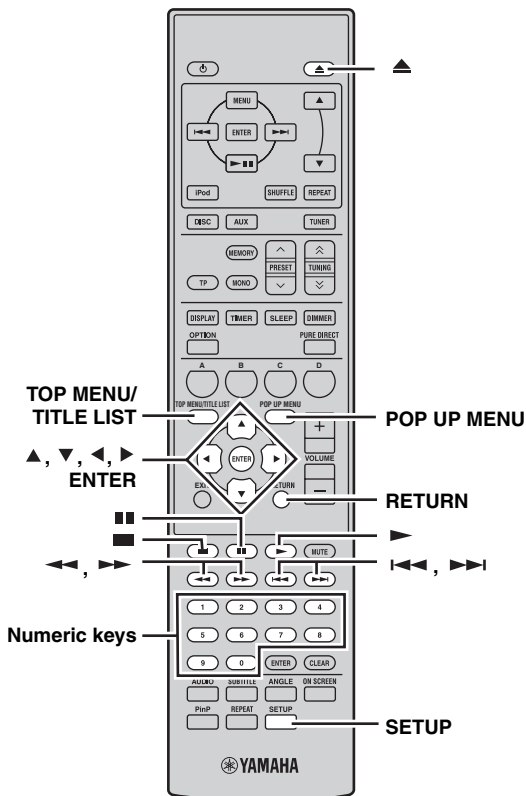
When the input source is DISC, you can operate various functions and settings by using the on-screen menus that appear on the connected TV.

Button	Description
SETUP	Displays the Setup menu for the BD player
Cursor (▲▼)/(◀▶)	Selects menu items
ENTER	Confirms item selection
RETURN	Returns to the previous menu

You can operate these keys when input mode is set to DISC.



- You can change the language of the on-screen display with the OSD Language setting (p.13).
- The buttons that you can use with each menu are shown at the bottom of each screen.



Playback operations

See page 3 for more details on supported disc types and file formats.

1 Press **△** on the front panel of the BD player.

2 Place the disc, label-side up, in the center of the disc tray, and then press **△**.

The disc tray closes and the disc is loaded.

3 Press **▶**.

- If you loaded a BD/DVD disc, a menu may appear. See “BD/DVD menus” (p.18) for more details.
- If you loaded a disc containing JPEG pictures, a slideshow will start. See “Playing JPEG slideshows” (p.20) for more details.

To stop playback, press **■**.

You can later continue playback from where you left off simply by pressing **▶** (Resume function).

Resume function may not work depending on the disc.

To playback from the beginning of a disc, cancel resume mode by pressing **■** again.

Notes

- To play a double-sided DVD, load it with the side you want to play facing down.
- If you press **△** on the front panel while the BD player is on standby, this system automatically turns on and selects DISC as the input source. The disc tray opens and the system is now ready for playback.
- With some discs, some of the playback functions explained in this chapter may not work as expected, and some may not work at all.
- Some BD/DVDs restrict the use of certain functions, for example, resume function, random playback or repeat playback, in some or all parts of the disc. This is not a malfunction.

Pausing playback

Press **■**.

To resume playback, press **■** again, or press **▶**.

For an Audio CD, press **■** or **■** to pause playback.

Rewind and fast forward

During playback, you can rewind or fast forward at various speeds.

Press ◀◀ to rewind or ▶▶ to fast forward.

The rewind or forward speed changes each time you press ◀◀ or ▶▶.

The speed is displayed on-screen.

To resume normal playback, press ▶.

Selecting chapters and tracks

■ To select the next chapter or track

Press ▶▶.

■ To select the previous chapter or track

Press ◀◀ twice.

If you press ◀◀ only once, playback returns to the beginning of the current chapter or track.

BD/DVD menus

Most BD/DVD have menus from which you can select what you want to watch. Usually, the main menu appears automatically, although with some discs, you may need to press TOP MENU/TITLE LIST or POP UP MENU to display the menu.

The following buttons can be used with menus.

Button	Description
TOP MENU/TITLE LIST	Displays the BD/DVD's top menu*1
POP UP MENU	Displays or closes the BD's pop-up menu*2
(▲▼)/(◀▶)	Selects menu items
ENTER	Confirms item selection

*1 Depends on the disc.

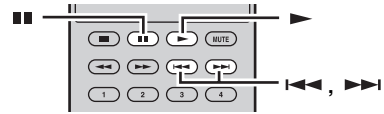
*2 May work the same as the TOP MENU/TITLE LIST button with some discs.

Notes

- The procedure explained on this page is the basic operation procedure. Procedures vary depending on the BD/DVD, so you may need to follow the instructions in the BD/DVD manual or the instructions displayed on the screen.
- With some BD/DVD, the top menu may be referred to as the "Title Menu". Use TOP MENU/TITLE LIST when the instructions refer to "Title Menu".
- If no top menu is available, TOP MENU/TITLE LIST will have no effect.
- The top menu screen may be displayed by pressing POP UP MENU depending on the DVD.

Slow-motion playback

You can play BD/DVD in slow motion. You can also play DVD in reverse slow motion.



1 During playback, press ■■.

2 Slow-motion playback functions when ◀◀ or ▶▶ is pressed for more than 2 seconds during pause.

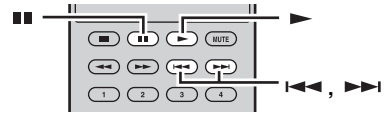
To resume normal playback, press ▶.

Notes

- Slow-motion playback does not work for audio CDs.
- Reverse slow-motion playback cannot be performed for BD.

Frame-by-frame playback

You can play BD/DVD frame-by-frame. You can also play DVD-Video discs frame-by-frame in reverse.



1 During playback, press ■■.

2 Press ◀◀ or ▶▶ to play one frame at a time.

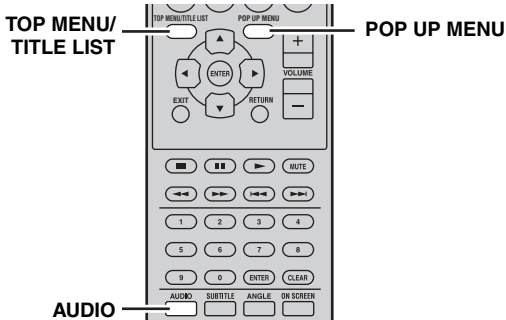
To resume normal playback, press ▶.

Notes

- Frame-by-frame playback may not function properly with discs other than DVD-RW/R (VR format).
- Some BD/DVD are not compatible with frame-by-frame playback.
- Frame advance/reverse playback can be performed for DVD by pressing ◀◀ or ▶▶ during pause.

Selecting languages and audio

Some BD/DVD discs have soundtracks in multiple languages or audio formats, such as Dolby Digital and DTS, that you can select during playback. Similarly, some DVD-VR discs have dual-mono audio soundtracks.



During playback, press AUDIO repeatedly to select the available soundtrack languages or audio formats.

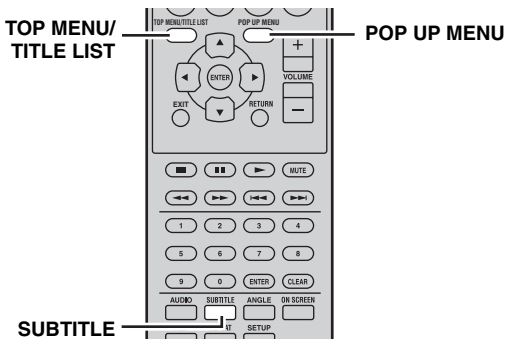
The name of the selected language or audio format is displayed on-screen.

Notes

- With some discs, you can only select language soundtracks and audio formats by using the disc's menu. Use TOP MENU/TITLE LIST and POP UP MENU to display the disc's menu.
- You can change the default soundtrack language for BD/DVD in the "Disc Language" (p.39).

Selecting subtitles

Some BD/DVD discs have subtitles in one or more languages that you can select during playback.



During playback, press SUBTITLE repeatedly to select the available subtitles.

The name of the selected subtitle language is displayed on-screen.

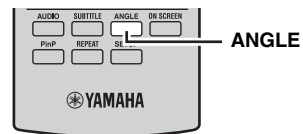
Notes

- With some discs, you can only select subtitles by using the disc's menu. Use TOP MENU/TITLE LIST and POP UP MENU to display the disc's menu.
- You can change the default subtitle language for BD/DVD in the "Disc Language" (p.39).

Selecting camera angles

Some BD/DVD-Video discs have content recorded at multiple camera angles that you can select during playback.

You can turn the camera icon () on if you prefer (p.39). This icon appears on-screen when playing content that features multiple camera angles.



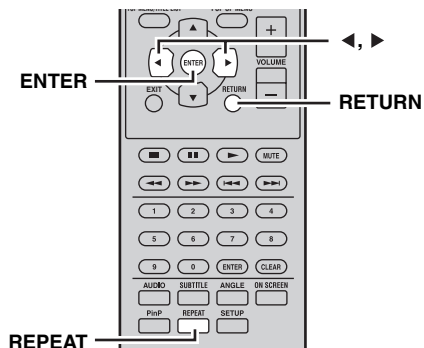
During playback, press ANGLE repeatedly to select the available camera angles.

Notes

- With some discs, even though the camera icon () is displayed on-screen, you may not be able to select the camera angles.
- With some discs, you can also select the camera angles from the disc's menu.

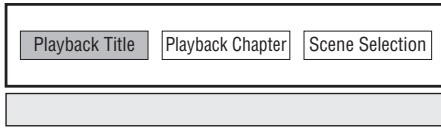
Repeat playback

You can play a title, chapter, track, or disc repeatedly.



1 During playback, press REPEAT.

The Repeat menu appears on-screen.



To close the Repeat menu, press RETURN.

2 Press ◀/▶ to select Repeat options.

- Playback Title: Repeats the title currently being played back.
- Playback Chapter: Repeats the chapter currently being played back.
- Scene Selection: Repeats the specified scene of title or chapter (Ⓜ“Repeat playback of a specified part (A-B repeat)”).

For Audio CD, you can select “Playing Disc”, “Playing Track” or “Specify The Part”.

3 Press ENTER.

Repeat playback starts.

The available repeat options differ depending on the type of disc.

To cancel repeat playback, press REPEAT during playback.

Note

Repeat playback cannot be used with JPEG discs.

Repeat playback of a specified part (A-B repeat)

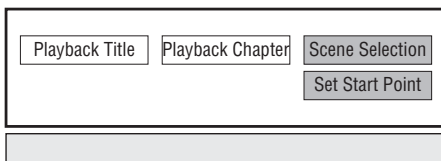
You can specify two points on a disc, and then play the section between those two points repeatedly.

The A-B repeat function is not available with BD discs.

1 During playback, press REPEAT, and then ◀/▶ to select “Scene Selection”.

“Set Start Point” displays.

“A-” lights up on the BD player’s front panel display.



2 Press ENTER at the scene where you want to set the start point.

“Set End Point” displays.

“B” lights up on the front panel display.

3 Press ENTER at the scene where you want to set the end point.

The section between start point and end point is played back repeatedly.

“REP” and “A-B” light up on the display.

To cancel repeat playback, press REPEAT.

To close the Repeat menu, press EXIT.

Note

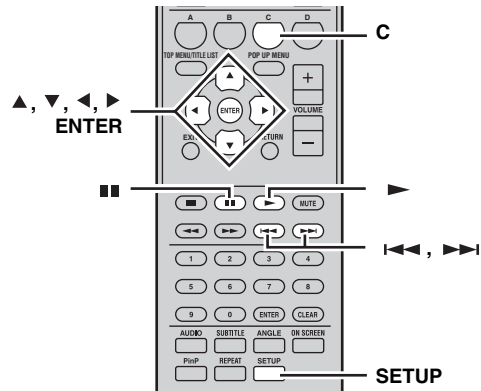
The start and end points must be within the same title (DVD) or track (Audio CD).



You can press ►► to fast forward to the scene where you want to set the end point.

Playing JPEG slideshows

You can play a slideshow of JPEG pictures on a CD-R/CD-RW.



Load the disc, and then press ► to start the slideshow.

Starting with the first picture in the first folder, the slideshow displays every picture in every folder on the disc in alphabetical order.

The pictures will be scaled automatically so that they appear on-screen at the largest size possible.

The following buttons can be used during slideshow.

Button	Description
■	Pauses the slideshow
▶▶	Selects the next picture
◀◀	Selects the previous picture

Setting the slideshow speed or repeat playback

- 1 Press SETUP.**
The Setup menu appears on-screen.
- 2 Select "Picture", and then press ENTER to open the picture selection screen.**
- 3 Press C (Slideshow Menu).**
- 4 Press ▲/▼ to select "Slideshow Speed" or "Repeat Mode Setting", and then press ENTER.**
- 5 Press ▲/▼/◀/▶ to select the desired item, then press ENTER.**

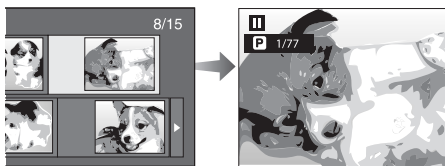
You can select the slideshow speed from "Fast", "Normal", "Slow1" and "Slow2".

Note

Large pictures take longer to load and may not appear immediately.

Playing back still images in a selected folder

- 1 Press SETUP.**
The Setup menu appears on-screen.
- 2 Select "Picture", and then press ENTER to open the picture selection screen.**

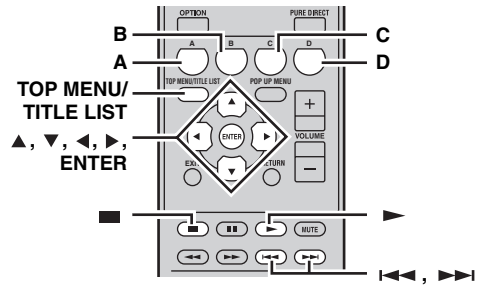


- 3 Use ▲/▼/◀/▶ to select the folder that contains the file(s) you want to play, then press ENTER.**

For playing back JPEG files, see "Playing JPEG slideshows" (p.20).

Playing back movies recorded on a DVD-R/DVD-RW

You can play back a recorded disc (DVD: VR format finalized disc only).



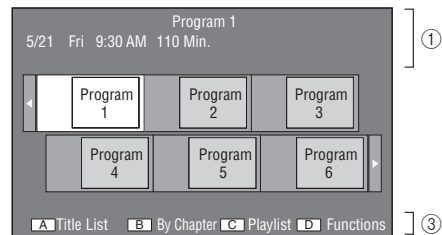
Note

"Finalize" refers to a recorder processing a recorded disc so that it will play in other DVD players/recorders as well as this player. Only finalized DVD discs will play back in this player. (This player does not have a function to finalize discs.)

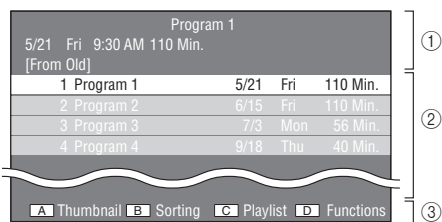
About Title List

The Title List can be displayed in two types, Thumbnail and Title List. Each time you press A, the screen changes between Thumbnail and Title List.

Thumbnail



Title List



- ① Information of selected title
- ② Title Name
Recording Date
Recording Duration
- ③ Caption for Color Button

■ **Playback by selecting a title**

1 Load a recorded disc.

The Title List screen is displayed.
If the Title List screen is not displayed, press TOP MENU/TITLE LIST.

2 Press ▲/▼/◀/▶ to select the desired title, then press ENTER.

Playback of the selected title will begin.
You can playback by pressing ▶ instead of pressing ENTER.
To stop playback, press ■ .



- The Title List screen also can be displayed by pressing TOP MENU/TITLE LIST when playback is stopped or by pressing ENTER after choosing “Displays The Title List” in Setup Menu when playback is stopped.
- When the Thumbnail is displayed and seven or more titles exist, switch pages by pressing ◀◀ or ▶▶ .

■ **Playback by selecting a chapter**

1 Press B while the Thumbnail screen is displayed.

The chapter screen is displayed.
To return to the Thumbnail screen, press B.

2 Press ▲/▼/◀/▶ to select the desired chapter, then press ENTER.

Playback of the selected chapter will begin.
You can playback by pressing ▶ instead of pressing ENTER.
To stop playback, press ■ .

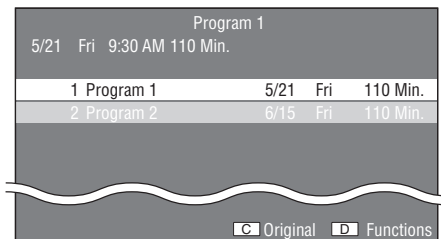
■ **Sorting the titles**

Each time you press B while the Title List screen is displayed, the Title List display changes between displaying the newest title first and the oldest title first.

■ **Playback by selecting a Playlist**

1 Press C while the Thumbnail or Title List screen is displayed.

The Playlist screen is displayed.

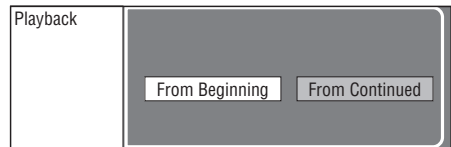


2 Press ▲/▼ to select the title, then press ENTER.

Playback of the selected title will begin.
To stop playback, press ■ .

■ **Playing back the title you stopped while being played**

1 Press D while the Thumbnail or Title List screen is displayed.

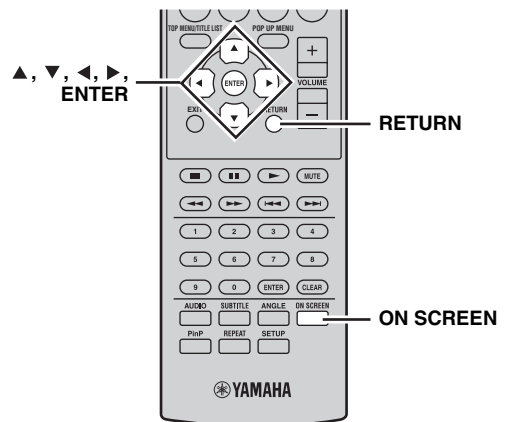


2 Press ◀/▶ to select the type of Playback, then press ENTER.

Playback of the title will begin.
To stop playback, press ■ .

Using “Function Control Screen” for BD/DVD

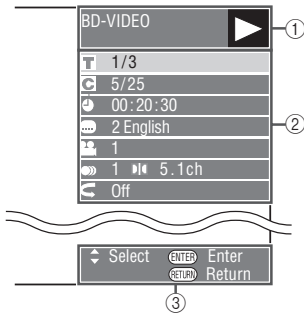
This allows you to adjust various settings at once, like subtitles, angle settings and the title selection for Direct Playback. You can adjust the video and audio to suit your preferences. The operations are the same for BD and DVD.



Press ON SCREEN during playback.

The Function Control screen is displayed on the TV.

Function control screen



① Playback status display

Shows the operation status and the disc type.

② Setting items

Selects a title (or track) or chapter for playback, or performs video/audio settings.

- Title/Track Number (Direct Title/Track Skip)
- Chapter Number (Direct Chapter Skip)
- Playback Elapsed Time (Direct Time Skip)
- Subtitle Language
- Angle Number
- Audio
- Repeat

③ Operation guide display

Provides help on remote control button operations.

To close the Function Control Screen, press RETURN or ON SCREEN.

Notes

- If “- -” is displayed for an option like title number or subtitles, the disc has no titles or subtitles which can be selected.
- The displayed items vary depending on the disc.
- If you access the Function Control screen during playback of a BD/DVD video, it may be impossible to operate the BD/DVD video playback. In cases like this, close the Function Control screen.

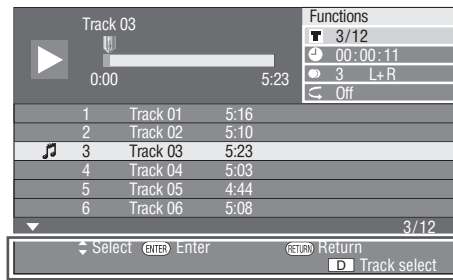
Using “Functions” menu for Audio CD

1 Load an audio CD.

The CD Operation Screen is displayed.

2 Press D when the CD Operation Screen is displayed.

The “Functions” menu is activated.



Operation guide

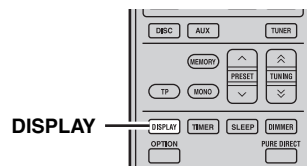
Follow the operation guide.

Notes

- The displayed items vary depending on the disc.
- When playback is stopped, only “Track” can be selected.

Viewing disc information

You can view title, chapter, track, and other information during playback.



During playback, press DISPLAY repeatedly to display the information.

■ To hide the information

Press DISPLAY repeatedly until it disappears.

Enjoying BONUSVIEW and BD-LIVE

The BD player supports BONUSVIEW (BD-ROM Profile 1 Version 1.1) and BD-LIVE (BD-ROM Profile 2) playback functions.

BONUSVIEW: BONUSVIEW compatible discs let you simultaneously enjoy video sub-channel for two screens, audio sub-channel and sub-titles. A small screen appears within the main screen during playback (Picture in Picture).

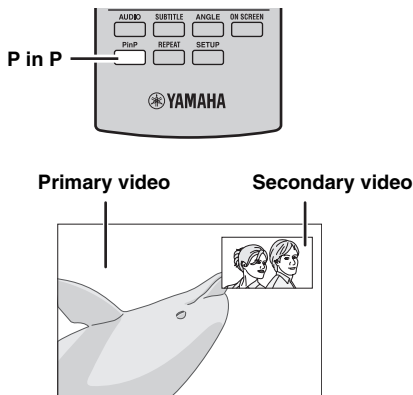
BD-LIVE: BD-LIVE compatible discs support all the functions of BONUSVIEW while also enabling the BD player to go online and enjoy promotion videos and other data.

Note

Functions and playback method vary depending on the disc. See the guidance on the disc or the supplied user's manual.

Using Picture in Picture function (secondary audio/video playback)

BD-Video that includes secondary audio and video compatible with Picture in Picture can be played back with secondary audio and video simultaneously as a small video in the corner.



During playback, press P in P to turn the Picture in Picture function on or off.

Notes

- To listen to secondary audio, make sure that "Secondary Audio" is set to "On" (p.38).
- The secondary audio and video for Picture In Picture may automatically play back and be removed depending on the content. Also, playable areas may be restricted.

Using the feature of BD-LIVE

1 Set the network setting (p.40).

2 Connect the USB storage device to the BD player (p.10).

BD-LIVE data is saved in Local Storage (USB memory device connected to this Player). To enjoy these functions, connect a USB memory device (2GB or greater and formatted with FAT 32/16) supporting USB 2.0 High Speed (480Mbit/s) to the USB BD STORAGE/SERVICE terminal (p.10) on the back of this player.

- If there is insufficient storage space, the data will not be copied/downloaded. Delete unneeded data or use a new USB memory device.
- If a USB memory device containing other data (previously recorded) is used, the video and audio may not play back properly.
- If the USB memory device is disconnected from this player during playback of BD-LIVE data, playback of the disc will stop.
- Some time may be required for the data to load (read/write).
- See "USB Memory Management" (p.43) for erasing the BD-LIVE data in the USB memory device.

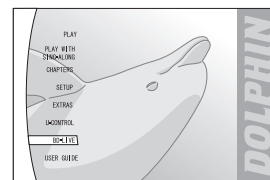
Notes

- Yamaha cannot guarantee that all brands' USB memory devices will operate with this player.
- Do not use a USB extension cable when connecting a USB memory device to the USB BD STORAGE/SERVICE terminal of the player. Using a USB extension cable may prevent the player from performing correctly.

3 Play back the disc.

4 Run BD-LIVE according to the instructions on the disc.

The following illustration is an example.



Notes

- Regarding playback method of BD-LIVE contents, etc., perform the operations in accordance with the instructions in the BD disc manual.
- To enjoy BD-LIVE functions, perform the broadband internet connection (p.10) and communication settings (p.40).
- See "BD Internet Access" (p.39) regarding the setup to restrict access to BD-LIVE contents.

- The time required to download the provided programs into the USB memory device connected to this player varies depending on the internet connection speeds and the data volume of the programs.
- BD-LIVE programs provided through the internet may not be able to display the connection depending on the status (updating) of the provider. In such cases, take out the disc and try again.
- If the BD-LIVE screen does not appear for a while after you select the BD-LIVE function in the BD disc menu, the USB memory device may not have enough free space. In such cases, eject the disc from the player, and then erase the data in the USB memory device using the Data Erase menu in the “USB Memory Management” menu (p.43).

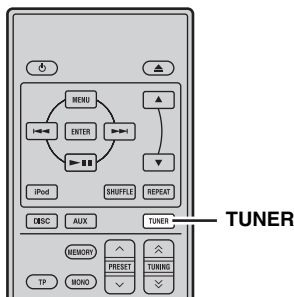
DAB (DIGITAL AUDIO BROADCASTING) TUNING

DAB (Digital Audio Broadcasting) uses digital signals for clearer sound and more stable reception compared to analog signals.

This unit can also receive DAB+ (an upgraded version of DAB) that allows for more stations using MPEG-4 audio codec (AAC+), which has a more efficient transmission method.

Preparing the DAB tuning

Before tuning into DAB stations, an initial scan must be performed. The initial scan starts automatically when you select DAB as the input source for the first time.

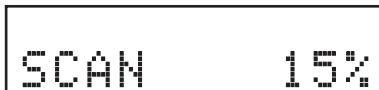


You can also perform the initial scan manually by INIT SCAN (see p.28).

1 Press TUNER repeatedly to set the unit to the DAB mode.

2 The initial scan starts automatically.

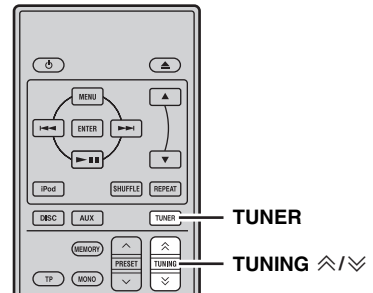
While the scan is in progress, "SCAN" and the percentage of the progress of scan appear on the front panel display.



When scanning is complete, the number of receivable DAB stations appears on the front panel display for a while, then the unit airs the first station as stored in station order.



Tuning DAB stations



1 Press TUNER repeatedly to set the unit to the DAB mode.

2 Press TUNING \wedge/\surd to select a DAB station.

Some stations have sub (secondary) stations. The secondary indicator lights up when a secondary audio station is selected.



Secondary indicator



You can change the order of DAB stations by STATION ORDER (see p.28).

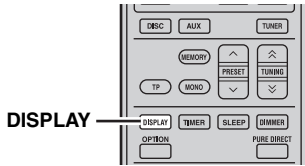
Note

When the unit cannot receive the DAB signal, "OFF AIR" is displayed on the front panel display.

DAB station information

Switching the information of DAB

Use this feature to display various information about the DAB service currently being received.



Press **DISPLAY** repeatedly while receiving DAB.

STATION LABEL

Displays the name of the current DAB station and preset number.

DLS (Dynamic Label Segment)

Displays information about the current DAB station, such as the name of the song, artist and speaker, etc. This data is continuously updated by the DAB broadcaster, thus changing often with every new song or program.

Other data, such as news, weather, and sports headlines, may be broadcast as well.

ENSEMBLE LABEL

Displays the name of the current ensemble.

PROGRAM TYPE

Displays the genre of the current DAB station.

TIME

Displays the current time.

BITRATE

Displays the bitrate of the current DAB station.

CHANNEL/FREQ

Displays the channel label and frequency of the current DAB station (see p.29).

SIGNAL QUALITY

Displays signal reception quality (from 0 (none) to 100 (best)) of current DAB tuning.

AUDIO FORMAT

Displays the audio format of the current station, and whether DRC (Dynamic Range Control)* is activated. "DRC ON" is displayed when DRC MODE (see p.28) is set to AUTO and DRC information is transmitted by DAB station.

* Some DAB broadcasters transmit a wide dynamic range enabling high quality sound, accompanied by DRC information.

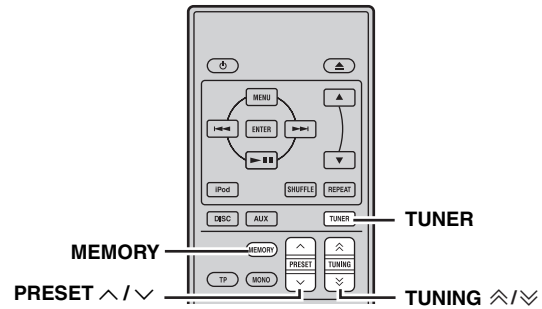
Use this feature to compress the dynamic range of the DAB broadcast. This is especially useful when you listen to a DAB station in a noisy environment or at low volume at night.



You can change the DRC setting by DRC MODE (see p.28).

Presetting DAB stations

You can store your favorite DAB stations with the preset function.



1 Press **TUNER** repeatedly to set the unit to the DAB mode.

2 Press **TUNING** \wedge/\vee to tune into a favorite DAB station.

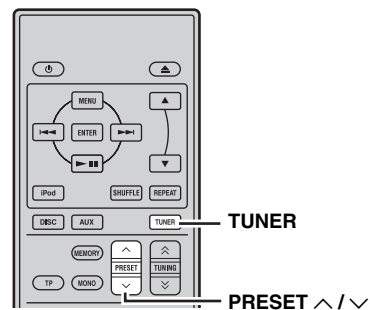
3 Press **MEMORY**.
To cancel the preset, press MEMORY again.

4 Press **PRESET** \wedge/\vee repeatedly to select a preset number you want to store, and press **MEMORY**.



- You can preset up to 30 DAB stations.
- You can delete a preset station by PRESET DELETE (see p.28).

Selecting preset DAB stations (Preset tuning)



1 Press **TUNER** repeatedly to set the unit to the DAB mode.

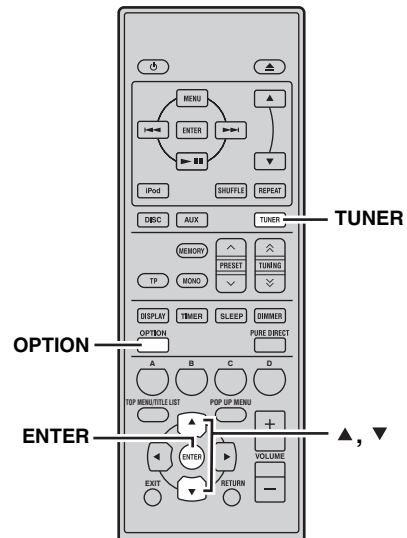
2 Press **PRESET** \wedge/\vee to select a preset DAB station.

The PRESET indicator lights up in the front panel display.

Using DAB option menu

You can set the following functions in DAB option menu.

Function	Description
PRESET DELETE	Deletes unnecessary preset DAB stations.
STATION ORDER	Enables you to change the station order. ALPHA-NUMERIC: Stations are listed in alphabetical order. ENSEMBLE: Stations are listed in ensemble order. The default setting is "ALPHA-NUMERIC".
DRC MODE	Changes the DRC (☞p.27) setting. AUTO: This unit utilizes DRC automatically if it is transmitted. OFF: This unit does not utilize DRC. The default setting is "AUTO".
DAB CLEAR	Deletes all DAB station information and preset settings stored in the unit. After DAB CLEAR is complete, the unit moves to the INIT SCAN functions automatically. Note that once DAB CLEAR is performed, the deleted information and preset settings cannot be restored.
INIT SCAN	Performs the initial scan manually. Each time you perform INIT SCAN, the newly received stations are added to the previously received stations.
TUNE AID	Measures reception strength of the received DAB signal (from 0 (none) to 100 (best)). Refer to "TUNE AID" (☞p.29) for this operation.
AUTO CLOCK	Automatically adjusts the receiver clock using the DAB broadcast signal.



■ PRESET DELETE, STATION ORDER and DRC MODE

- 1 Press **TUNER** repeatedly to set the unit to the **DAB mode**.
- 2 Press **OPTION** to display the **DAB option menu**. Press **▲/▼** repeatedly to select the function you want to use and press **ENTER**.
- 3 **Select and set the desired setting.**
For **PRESET DELETE**, press **▲/▼** repeatedly to select preset number you want to delete and press **ENTER**.

■ DAB CLEAR and INIT SCAN

- 1 Press **TUNER** repeatedly to set the unit to the **DAB mode**.
- 2 Press **OPTION** to display the **DAB option menu**. Press **▲/▼** repeatedly to select **DAB CLEAR** or **INIT SCAN** and press **ENTER**. "Push ENTER" appears on the front panel display.
- 3 Press **ENTER** to perform the function.
If you select **DAB CLEAR**, all DAB information is deleted; when **INIT SCAN**, the initial scan starts.

■ TUNE AID

- 1 Press TUNER repeatedly to set the unit to the DAB mode.**
- 2 Press OPTION to display the DAB option menu. Press ▲/▼ to select TUNE AID and press ENTER.**
- 3 Press ▲/▼ to select a channel label you want to measure.**
Adjust the indoor DAB antenna to the best position for receiving the DAB signal.
- 4 Press ENTER to finish measuring.**

Note

To check the frequency corresponding to the channel label, refer to “DAB frequency information” to the right.

■ AUTO CLOCK

- 1 Press TUNER repeatedly to set the unit to the DAB mode.**
- 2 Press OPTION to display the DAB option menu. Press ▲/▼ to select AUTO CLOCK and press ENTER.**
- 3 Press ▲/▼ to select “ON” or “OFF”, and press ENTER.**
The “AUTO CLOCK” status is displayed.
The default setting is “ON”.
ON: Automatically adjusts the receiver clock using the DAB broadcast signal.
OFF: Does not adjust the receiver clock.

Note

Changing the “AUTO CLOCK” setting also changes “AUTO CLOCK” on the RDS (p.33). You cannot set “AUTO CLOCK” on the DAB and RDS separately.

DAB frequency information

This unit can receive Band III only.

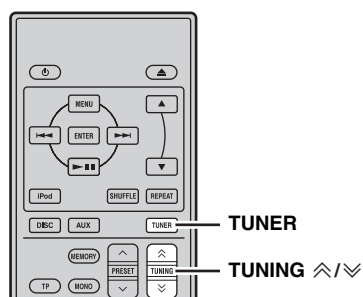
Frequency	Channel label
174.928 MHz	5A
176.640 MHz	5B
178.352 MHz	5C
180.064 MHz	5D
181.936 MHz	6A
183.648 MHz	6B
185.360 MHz	6C
187.072 MHz	6D
188.928 MHz	7A
190.640 MHz	7B
192.352 MHz	7C
194.064 MHz	7D
195.936 MHz	8A
197.648 MHz	8B
199.360 MHz	8C
201.072 MHz	8D
202.928 MHz	9A
204.640 MHz	9B
206.352 MHz	9C
208.064 MHz	9D
209.936 MHz	10A
211.648 MHz	10B
213.360 MHz	10C
215.072 MHz	10D
216.928 MHz	11A
218.640 MHz	11B
220.352 MHz	11C
222.064 MHz	11D
223.936 MHz	12A
225.648 MHz	12B
227.360 MHz	12C
229.072 MHz	12D
230.784 MHz	13A
232.496 MHz	13B
234.208 MHz	13C
235.776 MHz	13D
237.488 MHz	13E
239.200 MHz	13F

FM TUNING

There are 2 tuning methods: automatic and manual. You can also use the automatic and manual preset tuning features to store up to 30 stations.

Automatic tuning

Automatic tuning is effective when station signals are strong and there is no interference.



1 Press TUNER to set the receiver to FM mode.

2 Press and hold TUNING \wedge/\vee for more than 2 seconds to begin automatic tuning.

When the receiver is tuned into a station, the TUNED indicator lights up and the frequency of the received station is shown on the front panel display.

- Press \vee to tune into a lower frequency.
- Press \wedge to tune into a higher frequency.

Manual tuning

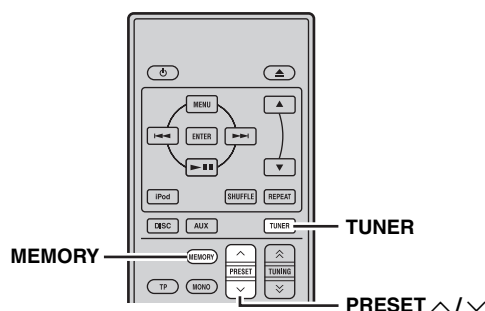
If the signal received from the station you want to select is weak, tune into it manually.

1 Press TUNER to set the receiver to FM mode.

2 Press TUNING \wedge/\vee to tune into the desired station manually.

Automatic preset tuning

Follow the procedure below to preset radio stations automatically.



1 Press TUNER to set the receiver to FM mode.

2 Press and hold MEMORY for more than 2 seconds.

The PRESET indicator starts flashing on the front panel display and automatic station preset starts. When all frequencies are searched, preset stops automatically.

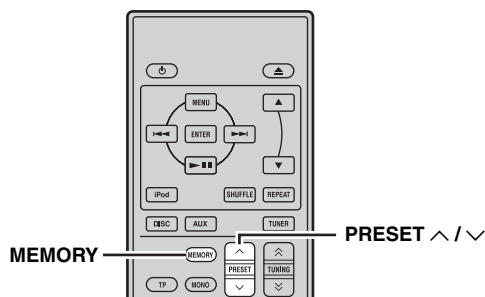
- The search starts at the lowest frequency and goes toward the highest frequency.
- The receiver automatically applies a preset number to each detected station.
- To cancel the search, press MEMORY.

Notes

- You can preset up to 30 FM stations.
- Any stored station data existing under a preset station number is cleared when you store a new station under the same preset station number.

Manual preset tuning

You can store up to 30 stations.



1 Tune into a radio station you want to preset.
See page 30 for tuning instructions.

2 Press MEMORY.

The PRESET indicator flashes on the front panel display for about 5 seconds.

3 Press PRESET ^/∨ repeatedly to select a preset station number while the PRESET indicator is flashing.

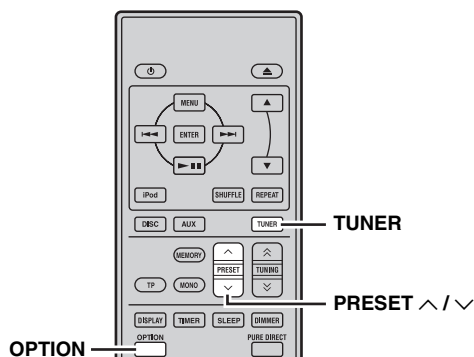
4 Press MEMORY to store while the PRESET indicator is flashing.

The PRESET indicator lights up on the front panel display.

5 Repeat steps 1 to 4 until all desired stations are preset.

Selecting preset stations

You can tune into any desired station simply by selecting the preset station under which it was stored (see p.30).



Press PRESET ^/∨ repeatedly to select a preset station.



- You can also use the front panel to select preset stations. Press PRESET ^/∨ repeatedly to select a preset station.
- When you press PRESET ^/∨ on the front panel of the receiver in standby mode, the receiver automatically activates the tuner and tunes in to the preset station that you selected previously.

■ **To delete the preset station**

1 Press TUNER to set the unit to FM mode.

2 Press OPTION to display the option menu. Press ▲/∨ to select “PRESET DEL” and press ENTER.

3 Press ▲/∨ to select the preset number you want to delete and press ENTER.

The preset station is now deleted.

You can continue to delete preset stations on this screen. Repeat steps 2 and 3 until all unnecessary stations are deleted.

To cancel deleting operation

Press OPTION.

RADIO DATA SYSTEM TUNING (EUROPE MODEL ONLY)

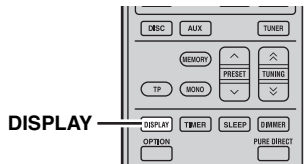
Radio Data System (Europe model only) is a data transmission system used by FM stations in many countries. The Radio Data System function is carried out among the network stations. This receiver can receive various Radio Data System information such as PS (program service), PTY (program type), RT (radio text), CT (clock time) and TP (traffic program) when receiving Radio Data System broadcasting stations.

Displaying the Radio Data System information

Use this feature to display the 4 types of the Radio Data System information: PS (program service), PTY (program type), RT (radio text) and CT (clock time).

Notes

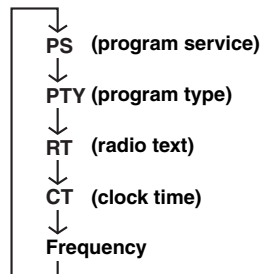
- You can select only the available Radio Data System modes being offered by the station.
- If the signals being received are not strong enough, the receiver may not be able to utilize the Radio Data System data. In particular, "RT" mode requires a large amount of data and may not be available even when other Radio Data System modes are available.
- If the signal strength is weakened by external interference while the receiver is receiving the Radio Data System data, the reception may be cut off unexpectedly and "...WAIT" appears on the front panel display.
- When "RT" mode is selected, the receiver can display the program information by a maximum of 64 alphanumeric characters, including the umlaut symbol. Unavailable characters are displayed with the "_" (underscore).



For description of program types, see the table below.

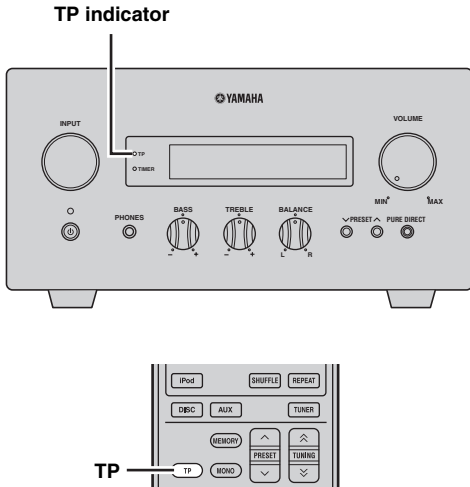
Program type	Descriptions
News	News
Affairs	Current Affairs
Info	Information
Sport	Sport
Educate	Education
Drama	Drama
Culture	Culture
Science	Science
Varied	Varied
Pop M	Pop Music
Rock M	Rock Music
Easy M	Easy Listening Music
Light M	Light Classical Music
Classics	Serious Classical Music
Other M	Other Music

While tuning into a Radio Data System station, press DISPLAY repeatedly to select desired Radio Data System display mode.



Using the TP (traffic program) data service

Use this feature to receive the TP (traffic program) data service of the Radio Data System station network.



1 Tune into the desired Radio Data System broadcasting station.

2 Press TP.

“TP SEARCH” flashes on the front panel display for about three seconds, and the search starts.

The TP indicator on the receiver flashes during search.

When the traffic program is received, the TP indicator stays on and the search stops.

If you press TP, the search starts again.

If the receiver fails to receive the traffic program, the TP indicator turns off and “NO TP” appears on the display. The receiver returns to its previous state.

To cancel the search

Press TP during search.

CT (clock time) settings

You can use the CT information received from the Radio Data System stations to adjust the built-in clock of the receiver.

1 Press OPTION.

An option menu item appears on the front panel display.

2 Press ▲/▼ to select “AUTO CLOCK”, and press ENTER.

3 Press ▲/▼ to select “ON” or “OFF”, and press ENTER.

The “AUTO CLOCK” status is displayed. The default setting is “ON”.

ON: Automatically adjusts the receiver clock using the CT information.

OFF: Does not adjust the receiver clock.

To exit the option menu

Press OPTION.

Note

Changing the “AUTO CLOCK” setting also changes “AUTO CLOCK” on the DAB (see p.29). You cannot set “AUTO CLOCK” on the RDS and DAB separately.

SETTING THE TIMER

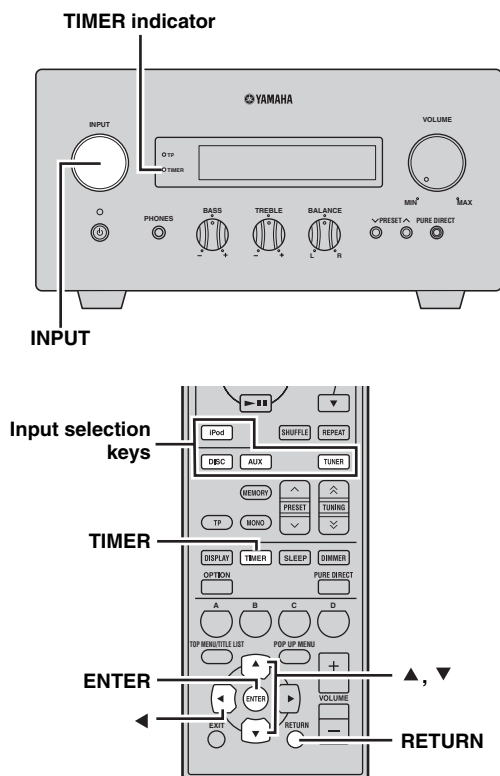
The receiver is equipped with 2 types of timer functions. The BD player also turns on or sets to standby mode automatically by the system control connection (☞p.8).

Setting the clock timer

The clock timer automatically turns the receiver on or sets it to standby mode at the specified time. You can also specify an input which the receiver automatically selects when the clock timer turns it on.

Notes

- You cannot set the clock timer unless you adjust the clock (☞p.12).
- If you do not touch any key for more than 30 seconds after the previous key operation, the operations you made are cleared from the memory and the normal display reappears.



1 Press **TIMER** and **▲/▼** to select “TIMER”, and then press **ENTER**.

The receiver enters timer setting mode. The **TIMER** indicator flashes on the front panel display.

2 Press **▲** or **▼** to select “ON” (timer enabled) or “OFF” (timer disabled), and press **ENTER**.

ON: The timer clock setting screen appears. Proceed to step 3.

OFF: The **TIMER** indicator turns off and the receiver returns to normal mode.

Note

To disable the timer, select “OFF”. Once the timer is enabled, the timer setting and the **TIMER** indicator remain on until “OFF” is selected.

3 Set the starting time of the timer.

For details on how to set the clock, see steps 4 through 6 of “Adjusting the Clock” (☞p.12).

4 Press **▲/▼** or an input selection key to select the input source to be used when the timer turns on the receiver, and press **ENTER**.

The receiver automatically selects the input source when it is turned on by the clock timer.

If **FM** is selected as the input source, the preset number (e.g. “P01”) is shown on the front panel display. Press **▲/▼** to select the preset number of the station you want to hear when the timer is activated, and press **ENTER**.

If you select “---” (default), the receiver selects the station that you previously tuned in to.

If no station is registered as a preset station, “---” is shown. Press **ENTER** and proceed to step 5.

You can only select a preset station. Register a station that you want to hear when the timer is activated as a preset station in advance (☞p.31).

Note

You cannot select **AUX** as an input source.

5 Press **▲/▼** to set the operation time length of the receiver.

You can select a length of time from 30 to 90 minutes in 10-minute steps. Select “--” if you do not want the receiver to automatically go to standby mode.

6 Press **ENTER** to complete the timer setting.

The **TIMER** indicator lights up.

7 Press **⏻** to set the receiver to standby mode.

The receiver will be turned on automatically at the specified time.

To cancel the timer setting operation

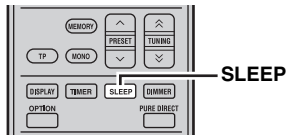
Press TIMER during the operation.



You can return to the previous screen by pressing ◀ or RETURN.

Setting the sleep timer

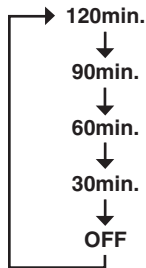
The sleep timer sets the receiver to standby mode after the specified time elapses.



Press SLEEP repeatedly to select the desired duration.

Each time you press the key, the duration changes as follows.

The SLEEP indicator lights up on the front panel display.



- The sleep timer is canceled if you set the receiver to standby mode.
- If you press SLEEP once while the sleep timer is set, the ongoing duration appears on the front panel display.

To cancel the sleep timer

Press SLEEP repeatedly to select “OFF”.

CONTROLLING iPod™

In addition to controlling the receiver (R-840) and BD player (BD-940), you can operate your iPod stationed in the iPod dock using the supplied remote control.

Using iPod™

Once you have stationed your iPod to the iPod dock, you can enjoy playback of your iPod using the supplied remote control.

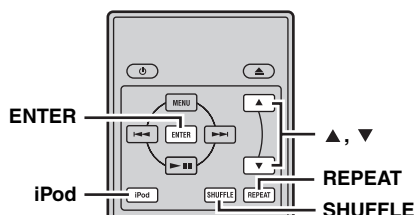
When connecting the iPod during the playback, this system automatically changes to iPod mode.

Notes

- Only iPod (Click and Wheel), iPod nano, iPod Classic, iPod mini and iPod touch are supported.
- Some features may not be compatible depending on the model or the software version of your iPod.



For a complete list of status messages that appear on the front panel display of the receiver, see the “iPod” section in “TROUBLESHOOTING” (p.48).



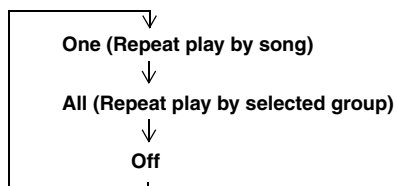
- Operate the iPod using the iPod controls or the supplied remote control.

■ Repeating playback (Repeat Play)

You can play back a single track or a group of tracks on your iPod repeatedly.

Press REPEAT.

Each time you press the key, mode of Repeat Play changes. The following chart is an example of how mode changes as you press the key. Check currently selected mode on your iPod screen.

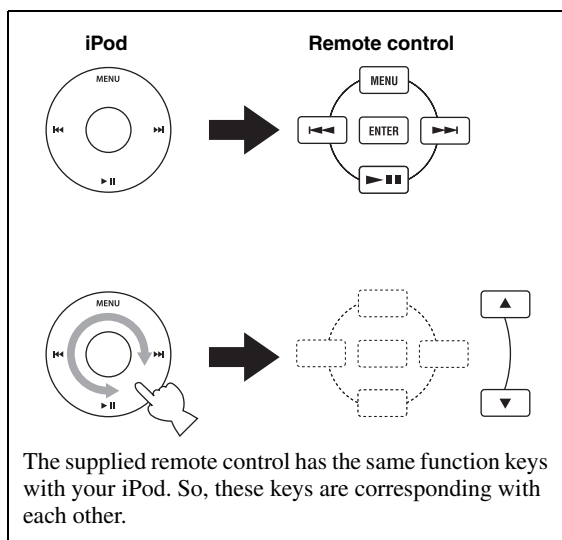
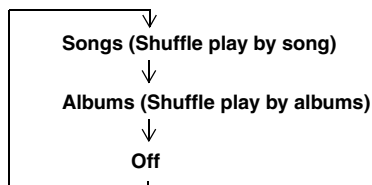


■ Playing back randomly (Shuffle Play)

You can play back songs or albums on your iPod randomly.

Press SHUFFLE.

Each time you press the key, mode of Shuffle Play changes. The following chart is an example of how mode changes as you press the key. Check currently selected mode on your iPod screen.



- 1 Press iPod to select the iPod as the input source.**
- 2 Station your iPod to the iPod dock.**
- 3 Press ▲/▼ to operate the iPod menu, and then press ENTER to start playback of the selected song (or group).**
 - View the screen of the iPod to control the menu.

SETTINGS OF THE BD PLAYER

This chapter describes various menu of this unit.

After your turn on this unit and a TV (☞p.13), you can change settings on the TV screen using the remote control. You can select menu items and change settings in the same way as the procedure of “Setting the TV display” (☞p.13).

Note

When you select “Parental Control” in “Playback Setting” (☞p.39), you must enter a 4-digit password. For the first time, the password setting screen will appear. To set the password, see “PIN Code Setting” (☞p.39).

Audio Video Settings



The default settings are marked with “*”.

■ TV Aspect Ratio

You can set the screen aspect ratio of the connected TV, and adjust the video output.

When replacing a TV with another, check if their aspect ratio are the same. If not, change the settings of “TV Aspect Ratio”.

Wide 16:9*: Select this when connecting a widescreen (16:9) TV.

Normal 4:3: Select this when connecting a 4:3 TV.

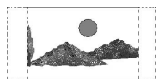
“Normal 4:3” options

When you set “TV Aspect Ratio” to “Normal 4:3” and watch a 16:9 video on a 4:3 TV, select one of the following options.

Letter Box*: Displays an image with black bands at the top and bottom while maintaining the 16:9 aspect ratio.



Pan Scan: Displays an image without changing the aspect ratio by cropping its right and left edges. This option is available only for discs labeled with 4:3PS.



■ Component Video Out

You can set the component video output resolution. Some TV are not fully compatible with the Blu-ray disc player, which may cause the image distortion. In this case, set “Component Video Out” to the default setting (☞p.45).

1080i, 720p, 576/480p, 576/480i*

Note

Some discs prohibit high definition video output from the COMPONENT jacks. In this case, the video resolution is converted to 576/480p or 576/480i.

■ HDMI Video Out

You can set the HDMI video output resolution.

Some TV are not fully compatible with the Blu-ray disc player, which may cause the image distortion. In this case, set “HDMI Video Out” to the default setting (☞p.45). “HDMI Video Out” will be reset to “Auto” (factory preset value).

Auto*, 1080p, 1080i, 720p, 576/480p

Note

When the BD player is connected to a 1080p/24Hz compatible TV and the “HDMI Video Out” is set to “Auto”, 1080p/24Hz will automatically be displayed when compatible discs are played back.

At 1080p/24Hz or 1080p/60Hz, there is no output from the COMPONENT jacks and VIDEO jack.

■ Video Out Select

Video signals can be output simultaneously from the analog video jacks (component or video jacks) and the HDMI jack. This is called dual output. When using the component video and HDMI outputs, the video output resolution is determined based on the settings of “Component Video Out” or “HDMI Video Out” and “Video Out Select”. See the table below for details.

HDMI*: Determines video output resolution based on the HDMI Video Out setting (see “HDMI Video Out” (☞p.37)).

Component: Determines video output resolution based on the Component Video Out setting (see “Component Video Out” (☞p.37)).

Settings on this Player		Output Resolution	
Video Out Select	HDMI Video Out	Component Out	CVBS Out*3
HDMI	Auto	*1	480i/576i*2
	1080p	No Output	No Output
	1080i	1080i*1	480i/576i
	720p	720p*1	480i/576i
	480p/576p	480p/576p*1	480i/576i

Settings on this Player		Output Resolution	
Video Out Select	Component Video Out	HDMI Out	CVBS Out*3
Component	1080i*1	1080i*1	480i/576i
	720p*1	720p*1	480i/576i
	480p/576p	480p/576p	480i/576i
	480i/576i	480i/576i	480i/576i

*1 Some discs prohibit high definition video output from COMPONENT jacks. In this case, video resolution is converted to 480p/576p (when “Video Out Select” is set to “Component”) or 480i/576i (when “Video Out Select” is set to “HDMI”).

*2 No video output when 1080p signal is output from the HDMI jack.

*3 CVBS Out means the video output signal from the VIDEO jack.

Note

If your TV is not compatible with the selected resolution, images may not be displayed correctly.



You can also switch between “HDMI” and “Component” by using “HDMI <-> COMP” (Ⓜp.45).

Secondary Audio

You can turn on and off secondary audio for the picture in picture or audio commentaries.

On*, Off



When you set “Secondary Audio” to “Off”, this unit does not output the clicking sound on the menu. Select “Off” to enjoy high quality BD sound via the HDMI jack.

Audio Out

You can set the audio output suitable for your playback environment.

HDMI Output: Outputs an audio signal via the HDMI jack.

Digital Output: Output an audio signal via the DIGITAL OUT (OPTICAL) jack.

2ch Audio Output*: Outputs an audio signal via the AUDIO OUT jacks.

“HDMI Output” options

When you set “Audio Out” to “HDMI Output”, select one of the following options.

Bitstream: Outputs a bitstream audio signal. Select this option when connecting an HDMI component with a built-in decoder for DOLBY DIGITAL, etc.

PCM* (Surround): Outputs a Linear PCM audio signal. Audio signals recorded in different format, such as DOLBY DIGITAL and DTS, are decoded to Linear PCM and output.

Note

When “Secondary Audio” is set to “On”, the “HDMI Output” option is automatically set to “PCM”.

“Digital Output” options

When you set “Audio Out” to “Digital Output”, select one of the following options.

Bitstream: Outputs a bitstream audio signal. Select this option when connecting a surround component with a built-in decoder for DOLBY DIGITAL, etc.

PCM*: Outputs a PCM 2-channel audio signal. Audio signals recorded in different format are converted to PCM 2-channel audio signals and output. Select this option when connecting a 2-channel stereo audio component.

Dynamic Range Control

You can adjust the dynamic range so that sound is output at average volume. If you cannot hear dialog clearly, change the setting of this menu.

Normal: Outputs sound in the same dynamic range as the original sound.

Shift: Adjusts the dynamic range of Dolby Digital audio so that dialog is clearly heard. If sound is abnormal, set this to “Normal”.

Auto*: Automatically adjusts the dynamic range of Dolby TrueHD audio.

Note

Turn the volume down prior to changing this setting; otherwise, loud sound may be output from speakers or an excessive electrical load is applied to them.

Quick Start

The Quick Start function lets you start this unit quickly.

- Yes:** Enables the Quick Start function.
The QUICK indicator lights up in standby mode (ⓘp.5).
- No*:** Disables the Quick Start function.
The power consumption in standby mode is lower.

Note

When “Quick Start” is set to “Yes”, the BD player requires some time to turn off.

Auto Power Off

You can set this unit to automatically turn off after about 10 minutes since playback is stopped.

Yes, No*

HDMI Control

You can set this unit to receive an HDMI control signal from the remote control of your TV if it supports the HDMI control and is connected to this unit via an HDMI cable.

Yes, No*

Notes

- For details, refer to the operation manual of TV.
- The HDMI control function may not work during playback or when the Setup menu is displayed.
- You can use this function only when “Video Out Select” is set to “HDMI”.

Playback Setting

Parental Control

Some digital broadcasts and BD/DVD include rating code to block the display of contents for a certain age group. You can select a level to block BD/DVD with undesired ratings from playing back on this unit. “Playback Setting” provides another option “Country code”. Because the ratings differ depending on countries, you also need to set the country code. To set a level or country code, you must set a 4-digit password and enter it.

For DVD

- Level 8 and Off*:** Does not restrict playback of DVD.
- Level 1-7:** Prohibits playback of DVD with corresponding ratings.

For BD

- No Limit*:** Does not restrict playback of BD.
- 0-99 year(s):** Prohibits playback of BD with corresponding ratings.

Country code

Sets the country code.
See the Country Code List (ⓘp.56) because the ratings differ according to the country.

Disc Language (Disc Priority Language)

You can select the language for subtitles, audio and menus displayed on the screen.
See “Language list” (ⓘp.56) for available languages.

Angle Mark Display

Some BD/DVD videos have multiple angles. When you watch those videos, you can display an angle mark on the lower right of the screen.

- Yes:** Displays the angle mark.
- No*:** Does not display the angle mark.

PIN Code Setting

You can set the password for setting or changing the Parental Control level.

- Yes:** Sets the password.
You are prompted to enter the 4-digit number.
- No:** Does not set a password.

Notes

- When you forget the password, you can reset the current password using “System Reset” (ⓘp.43).
- You can change the password if desired.

When setting the PIN code for the first time

- 1 Press **◀/▶** to select “Yes”, then press **ENTER**.
- 2 Enter a 4-digit number.
- 3 Enter the same 4-digit number again to confirm.
- 4 Press **ENTER** to exit the PIN code setting screen.



- You can clear the 4-digit number by pressing CLEAR.
- You can use another ENTER (Ⓜⓘp.7) on the remote control.

BD Internet Access

You can set access restriction to BD-LIVE contents.

- Permit:** Permits internet access for all BD-LIVE discs.
- Limit*:** Permits internet access for BD-LIVE discs with owner certification only.
- Prohibit:** Prohibits internet access to all discs.

Notes

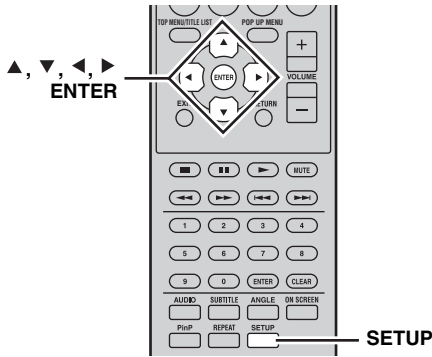
- The available functions differ depending on the disc.
- Regarding playback method of BD-LIVE contents, etc., perform the operations in accordance with the instructions in the BD disc manual.
- To enjoy BD-LIVE functions, see “Connecting to the Internet” (p.10) and “Communication Setup” (p.40).

Communication Setup

This allows you to perform and/or change the communication setting. This setting is required to use BD-LIVE functions that connect to the internet.

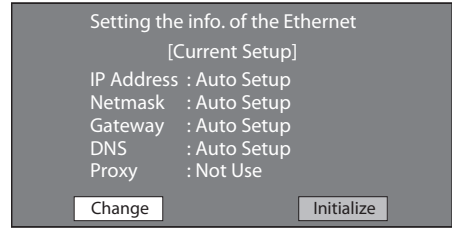
Notes

- Make sure that the LAN cable is connected to this Player (p.10).
- For manually performing the setting, the following information of the connected router or modem is required. Confirm the information prior to the setting.
 - IP address, netmask, gateway, DNS IP address
- Besides, if specifying a proxy server, the following information specified from your internet service provider is also required. Confirm the information prior to the setting.
 - IP address and port number of the proxy server



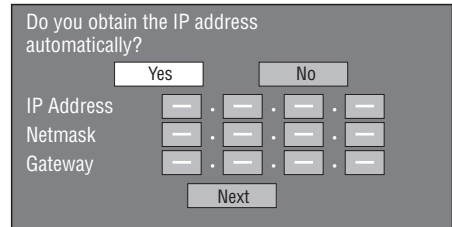
- 1 Press **SETUP**.
- 2 Press **▲/▼/◀/▶** to select “Settings”, then press **ENTER**.
- 3 Press **▲/▼** to select “Communication Setup”, then press **ENTER**.
- 4 Select “Ethernet Setup (BD-LIVE)”, then press **ENTER**.

- 5 Press **◀/▶** to select “Change”, then press **ENTER**.



For initializing the current setting, select “Initialize”, then press **ENTER**.

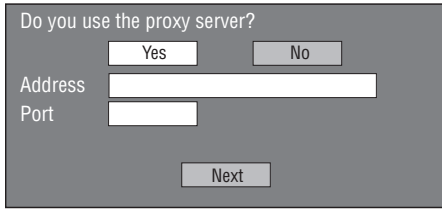
- 6 For setting the IP address, press **◀/▶** to select “Yes” or “No”, then press **ENTER**.



- If selecting “Yes”: The IP address is automatically obtained.
- If selecting “No”: The IP address, netmask and gateway are manually entered using the screen for inputting characters (p.42).
Regarding each of the setup values, confirm the specifications of your broadband router.

- 7 Select “Next”, then press **ENTER**.
- 8 Enter the primary and secondary IP addresses using the screen for inputting characters (p.42).
Regarding each of the setup values, confirm the specifications of your broadband router.
- 9 Select “Next”, then press **ENTER**.

10 For setting the proxy server, press **◀/▶** to select “Yes” or “No”, then press ENTER.

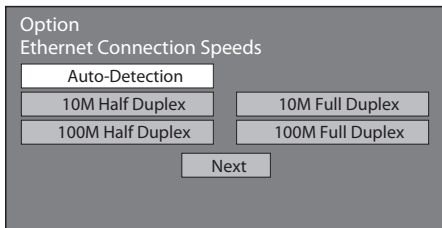


- If selecting “Yes”: The IP address or proxy server name and port number for the proxy server specified from your internet service provider are entered using the screen for inputting characters (p.42).
- If selecting “No”: Go to the next step.

11 Select “Next”, then press ENTER.

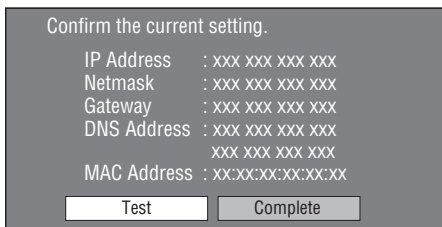
12 For the advanced setting (the setting of the Ethernet connection speeds), press **◀/▶** to select “Yes” or “No”, then press ENTER.

- Normally select “No”, then press ENTER.
- The Ethernet connection speeds can be set when you select “Yes”, then press ENTER.
- As automatic detection is made (factory preset mode), this setting is not normally necessary. If a situation occurs in which the Ethernet connection fails, etc., change the setting and confirm if the Ethernet connection successfully works. When the connection speed is set, select “Next”, then press ENTER.



13 For testing the connection to the internet, after confirming the settings, press **◀/▶** to select “Test”, then press ENTER.

“Test” is available only when setting to obtain the IP address automatically.

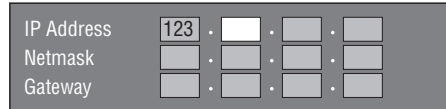


14 Press **◀/▶** to select “Complete”, then press ENTER.

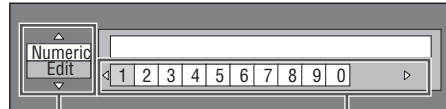
■ The operation procedure for inputting characters manually

Note

Numeric characters such as IP address can be entered on the input screen either by selecting each of the characters in the “Numeric” mode or using the Number buttons on the remote control.



1 Press ENTER at the boxes in which characters are to be entered, and the input screen will appear.



Selected by pressing ▲/▼ Selected by pressing ◀/▶

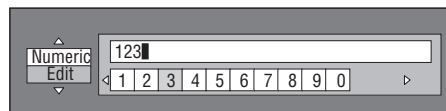
2 Press ▲/▼ to select the desired input mode.

- When inputting the address of the proxy server; “1ABC” (Alphabet/numeric character) / “Sign” / “Edit”
- When inputting other values (IP address, etc.); “Numeric” / “Edit”

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

4 Repeat step 3 to display all of the desired characters/numbers in the input field.

Example: The screen for inputting numeric characters



Note

Press RETURN (Del.Char.) to delete a number/character you have input.

To change a number/character you have input, press B (Left) or C (Right) to select the number/character you want to change, and press RETURN (Del.Char.). Then, press ◀/▶ to select a new number/character you want to input, and press ENTER.

5 Press D (Complete) to fix the numbers which have been input.

IP Address	123	
Netmask		
Gateway		

6 Repeat step 1 to 5 to finish inputting all the required characters.

Input character list

1ABC (Alphabet/ numeric character)	Num.	ABC	DEF	GHI	JKL	MON	PQRS	TUV	WXYZ	Spc.	
	Num.	1 2 3 4 5 6 7 8 9 0			ABC	A B C a b c			DEF	D E F d e f	
	GHI	G H I g h i			JKL	J K L j k l			MNO	M N O m n o	
	PQRS	P Q R S p q r s			TUV	T U V t u v			WXYZ	W X Y Z w x y z	
	Spc.	(space)									
Numeric		1 2 3 4 5 6 7 8 9 0									
Sign	@ . , : ; _ - \ \$ % ! ? & # + * = / ~ “ ‘ ^ ` () < > [] { } Spc.										
	@ . , :	@ . , :			; _ - \	; _ - \			\$ % ! ?	\$ % ! ?	
	& # + *	& # + *			= / ~	= / ~			“ ‘ ^ `	“ ‘ ^ `	
	() < >	() < >			[] { }	[] { }			Spc.	(space)	
Edit	Cancel	Left	Right	Complete	Del.Char						
	* The same operation as the colored buttons and RETURN can be performed by selecting each of the items and pressing ENTER. “Del.Char.” stands for deleting characters.										

Version

You can display the system software version.

Before using the USB memory device

CAUTION:

- Do not remove the USB memory device or unplug the power cable while the operations for “USB Memory Management” or “Software Update” are being performed.
- Do not use a USB extension cable when connecting a USB memory device to the USB BD STORAGE/SERVICE terminal of the player. Using a USB extension cable may prevent the player from performing correctly.

Note

Yamaha cannot guarantee that all brands’ USB memory devices will operate with this player.

USB Memory Management

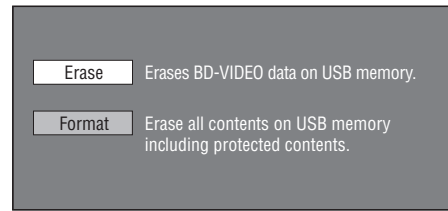
The following instructions explain how to delete data such as the BD-LIVE data in a USB memory device.

- 1 Insert the USB memory device into the USB BD STORAGE/SERVICE terminal on rear of this player.**
- 2 Press SETUP to display the Setup Menu screen.**
- 3 Press ▲/▼/◀/▶ to select “Settings”, then press ENTER.**
- 4 Press ▲/▼ to select “USB Memory Management”, then press ENTER.**
“No USB Memory” appears when no USB memory is inserted.
- 5 Press ▲/▼, select “Erase” or “Format”, then press ENTER.**

Erase: Deletes only BD-VIDEO data written on the USB memory device such as BD-LIVE data.

Format: Be aware that all data including BD-VIDEO data and software update data will be deleted.

If you want to delete only the unneeded software update data after the software is updated, delete the data on the USB memory device using a PC.



Note

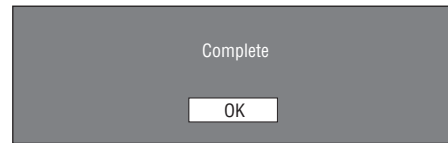
Data which has been saved to the player’s internal memory (game score, etc.) will also be deleted.

- 6 Press ◀/▶, select “Yes”, and press ENTER.**



- 7 Start the process.**

The screen for the current operation will display.



- 8 Press ENTER.**

Software Update

This function allows software updates by inserting a USB memory device with the update file into the USB BD STORAGE/SERVICE terminal on this player.

The USB memory device must be clear of all files except software update data to allow new software uploading.

To check for the availability of a software update, visit

<http://www.yamaha.co.jp/english/product/av/down/agreement.html>

System Reset

You can reset all the settings of the BD player to the factory presets.

Reset, Not Reset

Country Code List

USA / CANADA / JAPAN / GERMANY / FRANCE / UK / ITALY / SPAIN / SWISS / SWEDEN / HOLLAND / NORWAY / DENMARK / FINLAND / BELGIUM / HONG KONG / SINGAPORE / THAILAND / MALAYSIA / INDONESIA / TAIWAN / PHILIPPINE / AUSTRALIA / RUSSIA / CHINA

Language List

English / Français / Deutsch / Italiano / Español / Japanese / Svenska / Nederlands

Language Code List

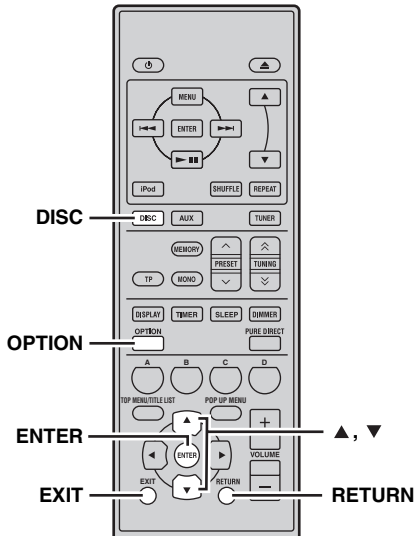
AA Afar / **AB** Abkhazian / **AF** Afrikaans / **AM** Ameharic / **AR** Arabic / **AS** Assamese / **AY** Aymara / **AZ** Azerbaijani / **BA** Bashkir / **BE** Byelorussian / **BG** Bulgarian / **BH** Bihari / **BI** Bislama / **BN** Bengali, Bangla / **BO** Tibetan / **BR** Breton / **CA** Catalan / **CO** Corsican / **CS** Czech / **CY** Welsh / **DA** Danish / **DE** German / **DZ** Bhutani / **EL** Greek / **EN** English / **EO** Esperanto / **ES** Spanish / **ET** Estonian / **EU** Basque / **FA** Persian / **FI** Finnish / **FJ** Fiji / **FO** Faroese / **FR** French / **FY** Frisian / **GA** Irish / **GD** Scots Gaelic / **GL** Galician / **GN** Guarani / **GU** Gujarati / **HA** Hausa / **HI** Hindi / **HR** Croatian / **HU** Hungarian / **HY** Armenian / **IA** Interlingua / **IE** Interlingue / **IK** Inupiak / **IN** Indonesian / **IS** Icelandic / **IT** Italian / **IW** Hebrew / **JA** Japanese / **JI** Yiddish / **JW** Javanese / **KA** Georgian / **KK** Kazakh / **KL** Greenlandic / **KM** Cambodian / **KN** Kannada / **KO** Korean / **KS** Kashmiri / **KU** Kurdish / **KY** Kirghiz / **LA** Latin / **LN** Lingala / **LO** Laothian / **LT** Lithuanian / **LV** Latvian, Lettish / **MG** Malagasy / **MI** Maori / **MK** Macedonian / **ML** Malayalam / **MN** Mongolian / **MO** Moldavian / **MR** Marathi / **MS** Malay / **MT** Maltese / **MY** Burmese / **NA** Nauru / **NE** Nepali / **NL** Dutch / **NO** Norwegian / **OC** Occitan / **OM** Afan (Oromo) / **OR** Oriya / **PA** Panjabi / **PL** Polish / **PS** Pashto, Pushto / **PT** Portuguese / **QU** Quechua / **RM** Rhaeto-Romance / **RN** Kirundi / **RO** Romanian / **RU** Russian / **RW** Kinyarwanda / **SA** Sanskrit / **SD** Sindhi / **SG** Sangho / **SH** Serbo-Croatian / **SI** Singhalese / **SK** Slovak / **SL** Slovenian / **SM** Samoan / **SN** Shona / **SO** Somali / **SQ** Albanian / **SR** Serbian / **SS** Siswat / **ST** Sesotho / **SU** Sundanese / **SV** Swedish / **SW** Swahili / **TA** Tamil / **TE** Telugu / **TG** Tajik / **TH** Thai / **TI** Tigrinya / **TK** Turkmen / **TL** Tagalog / **TN** Setswana / **TO** Tonga / **TR** Turkish / **TS** Tsonga / **TT** Tatar / **TW** Twi / **UK** Ukrainian / **UR** Urdu / **UZ** Uzbek / **VI** Vietnamese / **VO** Volapuk / **WO** Wolof / **XH** Xhosa / **YO** Yoruba / **ZH** Chinese / **ZU** Zulu

CHANGING THE SETTINGS WHEN CONNECTING AN HDMI OR COMPONENT CABLE

You can change the settings when an HDMI or a component cable is connected using the keys on the BD player. Also see page 37.

Notes

- Even in Pure Direct mode, you can display and change settings on the front panel display of the BD player.
- You cannot change the settings during playback. Change the settings after stopping playback.



1 Press DISC to select an input source, and press OPTION.

“VIDEO RESET” appears on the front panel display of the BD player.

2 Press ▲/▼ to select “VIDEO RESET” or “HDMI <-> COMP”.

VIDEO RESET

Restore the resolution of “Component Video Out” (see p.37) or “HDMI Video Out” (see p.37) to the factory default setting.

HDMI <-> COMP

Set the video output priority to HDMI or Component. For details, see “Video Out Select” (see p.37).

3 Press ENTER to confirm the setting.

“>> DONE <<” is displayed.

To cancel the setting operation

Press OPTION, EXIT or RETURN.

TROUBLESHOOTING

Refer to the table below when this system 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 system, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

Receiver (R-840)

■ General

Problem	Cause	Remedy	See page
The receiver fails to turn on or enters standby mode soon after the power is turned on.	The power cable is not connected or the plug is not completely inserted.	Connect the power cable firmly.	8
	The receiver has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Set the receiver to standby mode, disconnect the power cable, plug it back in after 30 seconds and then use it normally.	—
	The cable is short-circuited and the protection circuitry has been activated.	Make sure that all speaker wire connections on the receiver and on all speakers are secure and that the wire for each connection does not touch anything other than its respective connection.	8
	The internal temperature is too high, the protection circuitry has been activated.	Wait about 1 hour for the receiver to cool down and then turn it back on.	8
No sound	Incorrect input or output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	8
	No appropriate input source has been selected.	Select an appropriate input source with the INPUT selector on the front panel (or the input selection keys on the remote control).	—
	Speaker connections are not secure.	Secure the connections.	8
	The volume is turned down.	Turn up the volume.	—
	The sound is muted.	Press MUTE or VOLUME +/- to resume audio output and then adjust the volume.	7
	Signals the receiver cannot reproduce are being input from a source component, such as a CD-ROM.	Play a source whose signals can be reproduced by the receiver.	—
The sound suddenly goes off.	The timer has turned off the receiver.	Turn on the receiver, and play the source again.	—
Sound is heard from the speaker on one side only.	Cables are not connected properly.	Connect the cables properly. If the problem persists, the cables may be defective.	8
There is noise interference from digital or radio frequency equipment.	The receiver is too close to the digital or high-frequency equipment.	Move the receiver further away from such equipment.	—
The sound is distorted.	The volume level is too high.	Adjust the volume level.	15
“CHK SP WIRE” appears on the display.	Speaker cables are short-circuited.	Make sure speaker cables are connected correctly.	8

■ DAB reception

Problem	Cause	Remedy	See page
Cannot tune into any DAB stations.	The initial scan operations were not performed.	Perform the initial scan operations.	28
	There is no DAB coverage in your area.	Check with your dealer or WorldDMB online at http://www.worlddab.org for a listing of the DAB coverage in your area.	—
	The DAB signals are too weak.	Use the TUNE AID feature to locate the best positioning of the indoor DAB antenna.	29
The initial scan operations are not successful and “Not found” appears on the front panel display.	The DAB signals are too weak.	Use the TUNE AID feature to locate the best positioning of the indoor DAB antenna.	29
	There is no DAB coverage in your area.	Check with your dealer or WorldDMB online at http://www.worlddab.org for a listing of the DAB coverage in your area.	—
The DAB station reception is weak.	The positioning of the indoor DAB antenna and/or this unit is not optimal for DAB reception.	Use the TUNE AID feature to locate the best positioning of the indoor DAB antenna and this unit for optimal DAB reception.	29
	The DAB signals are too weak.	Use the TUNE AID feature to locate the best positioning of the indoor DAB antenna.	29
There is noise interference (e.g. hiss, crackle or jitter).	The indoor DAB antenna needs to be repositioned.	Readjust the position of the indoor DAB antenna.	8
	The DAB signals are too weak.	Use the TUNE AID feature to locate the best positioning of the indoor DAB antenna.	29
The DAB station information does not appear or is inaccurate.	The DAB station may be temporarily out of service, or the DAB station information is not provided by the DAB broadcaster.	Contact the DAB broadcaster.	—

■ FM

Problem	Cause	Remedy	See page
FM stereo reception is noisy.	The characteristics of FM stereo broadcasts may cause this problem when the transmitter is too far away or the antenna input is poor.	Check the antenna connections.	8
		Try using a high-quality directional FM antenna.	—
There is distortion, and clear reception cannot be obtained even with a good FM antenna.	There is multi-path interference.	Adjust the antenna position to eliminate multi-path interference.	—
The desired station cannot be tuned into with the automatic tuning method.	The signal is too weak.	Use a high-quality directional FM antenna.	—
		Use the manual tuning method.	30
Previously preset stations can no longer be tuned into.	The receiver has been disconnected for a long period.	Set preset stations.	30

■ iPod

Note

If a transmission error occurs but no status message is displayed on the front panel display of the receiver, check the connection between the receiver and your iPod (see p.10).

Status message	Cause	Remedy	See page
CONNECT ERR	There is a problem with the signal path from your iPod to the receiver.	Turn off the receiver and try resetting your iPod.	10
UNKNOWN TYP	The iPod being used is not supported by the receiver.	Only iPod (Click and Wheel), iPod nano, iPod Classic, iPod mini and iPod touch are supported.	—
CONNECTED	Your iPod is properly stationed in the iPod dock, and the connection between your iPod and the receiver is complete.		
NOT CONNECT	Your iPod was removed from the iPod dock of the receiver.	Station your iPod back to the terminal of the receiver.	10
CAN'T PLAY	The receiver cannot play back the songs currently stored on your iPod.	Check that the songs currently stored on your iPod are playable.	—
		Store some other playable music files on your iPod.	—

Remote control

Problem	Cause	Remedy	See page
The remote control does not work nor function properly.	The remote control may be operated outside its operation range.	For information on the remote control operation range, see "Using the remote control".	11
	The remote control sensor on this system may be exposed to direct sunlight or lightening (invented fluorescent lamps).	Change the lighting or orientation of this system.	11
	The battery may be worn out.	Replace the battery with new one.	11
	There are obstacles between the sensor of this system and the remote control.	Remove the obstacles.	11
	The system control cable is disconnected from the system connector jack of the receiver and/or the BD player.	Connect the receiver and the BD player securely with the system control cable.	8

BD player (BD-940)

Problem	Cause	Remedy	See page
Power does not turn on.	The plug is not completely inserted.	Connect the power cable firmly.	8
	The receiver and the BD player are connected incorrectly.	Check the connection with the receiver.	8
	The receiver is set incorrectly.	Check the setting (INPUT/Volume/MUTE/Headphone) of the receiver.	—
Power is turned off.	"Auto Power Off" is set to "Yes".	Set "Auto Power Off" to "No".	39

Problem	Cause	Remedy	See page
Disc playback does not start.	You may use a recordable disc that is not finalized.	Finalize the recordable disc.	—
	The disc label may not be facing up.	Place the disc in the disc tray with the label facing up.	—
	The disc may be defective.	Try to play back another disc. If the same problem does not occur, the disc you want to play back is defective.	—
	The disc is dirty.	Clean the disc surface.	53
	The region code on the disc does not match that of the BD player.	Use a disc with the same region code as the BD player.	3
	If the recorded time of a disc is unusually short, playback may not be possible.		
	BD-RE/R discs recorded in a format other than BDMV cannot be played back.		
Video playback stops.	Excessive force or vibration was applied to the BD player.	Do not apply excessive force or vibration to the BD player.	—
	The BD player is not placed on a steady flat surface.	Place the BD player on a steady flat surface.	—
The BD player makes a snapping noise when a disc is loaded or played.	The BD player has not been operated for a while.	This may happen if it has not been operated for a while. This is not a malfunction.	—
There is no picture.	The video cable is not connected properly to your TV.	Connect the video cable properly to the TV.	9
	The input setting on your TV is not correct.	Select the correct input setting on the TV.	13
	The BD player is not set properly for HDMI or component video cable connection.	Set the BD player properly.	37
The screen freezes and operation buttons do not work.	The disc is damaged or dirty.	Check the disc surface.	—
	The BD player is frozen.	Reboot the BD player.	5
There is sound but no picture.	The video cable is not connected properly.	Connect the cable properly.	9
An image is not output with the desired resolution.	The video output resolution setting does not match the resolution of the TV connected to the BD player.	Perform "VIDEO RESET".	45
		Switch between "HDMI" and "Component" by using "Video Out Select" or "HDMI <-> COMP".	37, 45
	"Video Out Select" is not set properly.	Set "Video Out Select" properly.	37
	"Component Video Out" or "HDMI Video Out" is not set to the desired resolution.	Set "Component Video Out" or "HDMI Video Out" to the desired resolution.	37
Widescreen images look vertically stretched, or black bands appear at the top and bottom of the screen.	"TV Aspect Ratio" is not set properly for the connected TV.	Set "TV Aspect Ratio" properly for the connected TV.	37
	A 4:3 standard TV is connected but "Video Out Select" is not set to "Component".	When a widescreen TV is connected, set "TV Aspect Ratio" to "Wide 16:9". When a 4:3 standard TV is connected, set "Video Out Select" to "Component".	37
4:3 images look horizontally stretched.		When a 4:3 TV is connected, set "Video Out Select" to "Component".	37

Problem	Cause	Remedy	See page
Block noise (mosaic) appears on the screen.	Block noise may appear in fast-moving scenes due to the characteristics of digital image compression technology.		
Sound or images are not output properly.	The sound or image may not be output properly when playing back a copyright-protected disc.		
Sound is distorted or not output.	The RCA stereo cable is not connected between the receiver and the BD player.	Connect the RCA stereo cable between the receiver and the BD player.	8
	The audio plugs are dirty.	Clean the audio plugs.	—
	The surface of the disc is dirty.	Clean the disc surface.	53
	The disc is damaged or dirty.	Check the disc surface.	—

Network

Problem	Cause	Remedy	See page
Cannot connect to the Internet.	The network cable is not connected properly.	Connect the network cable properly.	10
	The wrong cable is being used, such as a modular cable.	Use the network cable for connection.	10
	The broadband router or modem is not properly connected.	Connect the broadband router and/or modem properly.	10
	The broadband router or modem is not turned on.	Turn on the broadband router or modem.	—
	The network settings are not correct.	Check “Communication Setup”.	40
Cannot download BD-LIVE contents.	The network cable is not connected properly.	Connect the network cable properly.	10
	The USB memory device is not connected properly.	Check that the USB memory device is connected to the USB BD STORAGE/SERVICE terminal of the BD player.	10
	The BD disc does not support BD-LIVE.	Check if the BD disc supports BD-LIVE.	24
	“BD Internet Access” is set to “Prohibit”.	Set “BD Internet Access” to “Permit” or “Limit”.	39

Messages Relating to BD disc and DVD disc

The following messages appear on the TV screen in case the disc you tried to playback is not appropriate or the operation is not correct.

Error message	Possible Error	Remedy
Cannot play.	The disc cannot be played back with this Player.	Check the disc, and load it correctly.
Incompatible disc.	If you load a disc which cannot be played with this Player (i.e. a scratched disc), or if you load a disc upside down, this message will appear, and the disc tray will automatically pop out.	Check the disc, and load it correctly.
	Occurs if the loaded disc cannot be played because it is a non-standard disc or scratched, etc.	Remove the disc.
Cannot operate.	Occurs if an operation is incorrect.	

Error message	Possible Error	Remedy
This USB memory is not formatted properly. Please format the memory in USB memory management.	Occurs if there is a formatting error.	Format the USB memory again.
	Occurs if the USB memory is not formatted with FAT 32/16.	Format the USB memory with your PC.
The Connected USB Memory cannot be used. It should be compliant with USB 2.0	Occurs if USB memory not compliant with USB 2.0 High Speed (480Mbit/s) is used (i.e. USB 1.0/USB 1.1).	Connect USB 2.0 High Speed (480Mbit/s) compliant USB memory.

ABOUT THE JPEG FILE FORMAT

JPEG is a type of file format for storing still-image files (photos, illustrations, etc.). The Player lets you play JPEG format still-image files.

■ File formats that are not compatible

- Still images in formats other than JPEG (such as TIFF) cannot be played.
- There may be some files that cannot be played even if they are in JPEG format.
- Progressive JPEG files cannot be played.
- Moving image files and audio files as well as Motion JPEG format files cannot be played, even though they are JPEG files.

■ Other files that cannot be played back

You may not be able to play some still images which you have created, touched up, copied or otherwise edited on your computer.

■ You may experience one or more of the following symptoms when playing files.

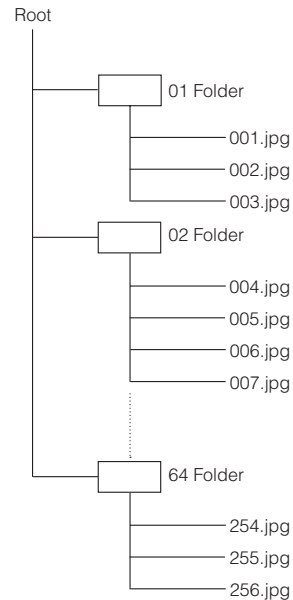
- It may take some time to play files depending on the number of folders, number of files and volume of data involved.
- EXIF information will not be displayed. EXIF stands for Exchangeable Image File Format, and is a standard for storing interchange information in image files, especially those using JPEG compression. (Refer to <http://exif.org> for more information.)

■ When using the unit to play a CD-RW/R disc with still images stored (recorded)

- With CD-RW/R discs on which still images are mixed in with music or movies, you will be able to play only the still images. You may not be able to play some of these discs at all.
- Multi-session discs cannot be played.
- You may not be able to play some still images you have processed (rotated or saved by overwriting other images) using image processing software or some still images you have imported from the Internet or e-mail.
- The discs which this Player can play back (recognize) are limited to the following properties:
 - Contains EXIF format files
 - Picture resolution: Between 32×32 and 7680×4320 pixels
 - Maximum number of folders: 64
 - Maximum number of files: 256
 - File size: 20MB or less

■ Structure of still images (JPEG) folders

You can play still images (JPEG) with this unit by making folder on disc as shown below. Images situated on the root directly cannot be played back.

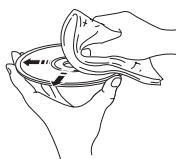


NOTES ABOUT HANDLING DISCS

- 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.

■ 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) CD on top of an 8-cm (3-inch) CD.

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

GLOSSARY

■ Analog

Sound that has not been turned into numbers.

Analog sound varies, while digital sound has specific numerical values. These terminals send audio through two channels, the left and right.

■ Aspect ratio

The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs. is 4:3, and that of wide-screens is 16:9.

■ Component Video

Terminals for inputting or outputting a component video signal. Component video signal consists of three lines, the luminance signal (Y) and two color difference signals (PB/CB, PR/CR), which enable to provide high-quality video.

■ Disc menu

A screen display prepared for allowing selection of images, sounds, subtitles, multi-angles, etc. recorded on a BD/DVD.

■ Dolby Digital

Digital surround sound system which is developed by Dolby Laboratories provides completely independent multi-channel audio. With 3 front channels (left, center, and right) and 2 surround stereo channels, Dolby Digital provides five full-range audio channels. With an additional channel especially for bass effects (called LFE, or low frequency effect), the system has a total of 5.1-channels (LFE is counted as 0.1 channel). By using 2-channel stereo for the surround speakers, more accurate moving sound effects and surround sound environment are possible than with Dolby Surround.

■ DTS (Digital Theater Systems)

Digital surround sound system developed by Digital Theater Systems, Inc., which provides 5.1 channel audio (max). With an abundance of audio data, it is able to provide authentic-sounding effects.

■ HDMI

HDMI (High-Definition Multimedia Interface) is the first industry-supported, uncompressed, all-digital audio/video interface. Providing an interface between any source (such as a set-top box or AV controller) and an audio/video monitor (such as a digital television), HDMI supports standard, enhanced or high-definition video as well as multi-channel digital audio using a single cable. HDMI transmits all ATSC (Advanced Television Systems Committee) HDTV standards and supports 8-channel digital audio, with bandwidth to spare to accommodate future enhancements and requirements.

When used in combination with HDCP (High-bandwidth Digital Content Protection), HDMI provides a secure audio/video interface that meets the security requirements of content providers and system operators.

For further information on HDMI, visit the HDMI website at “www.hdmi.org/”.

■ Interlace

The most common type of scanning used in televisions. It divides a screen into even and odd numbered fields for scanning, and then builds an image by combining them into one image (frame).

■ JPEG (Joint Photographic Experts Group)

A standardized image compression system proposed by the Joint Photographic Experts Group. It can reduce image data sizes to 1 to 10% of their original sizes, and works on digital photographs effectively.

■ Parental lock

Limits Disc play according to the age of the users or the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

■ Progressive Scan

A method of displaying all scanning lines in a frame at once, reducing flicker noticeable on a larger screen and creating a sharp and smooth image.

■ Region code

Many BD/DVD discs include a region code so that the copyright owner can control BD/DVD software distribution only to regions where they are ready to distribute. There are six regions codes, which restrict a BD player to playing a BD/DVD disc with the same region code.

■ VR format (Video Recording format)

A DVD video recording format, which allows editing DVD video data recorded onto a disc. You need a VR format compatible player for playback.

SPECIFICATIONS

■ R-840

AMPLIFIER SECTION

- Minimum RMS output power per channel (6 Ω, 1 kHz, 10 % THD)..... 65 W + 65 W
- Input sensitivity/Impedance
PLAYER, etc. 200 mV/47 kΩ
- Frequency response
PLAYER, etc. 20 Hz to 20 kHz ± 0.5 dB
- Total harmonic distortion
PLAYER, etc. (30 W/6 Ω) 0.04 % or less
- Signal to noise ratio (IHF-A network)
PLAYER (200 mV, Input shorted) 100 dB or more

TUNER SECTION

- DAB 174 to 240 MHz (Band III)
- FM 87.50 to 108.00 MHz

GENERAL

- Power supply AC 230 V, 50 Hz
- Power consumption 115 W
- Dimensions (W × H × D) 215 × 110 × 348 mm
(8 1/2 × 4 3/8 × 13 3/4 in)
- Weight 5.7 kg (12.6 lbs)
- Standby power consumption less than 0.3 W

■ BD-940

PLAYER SECTION

- AUDIO OUT
 - Output level (1 kHz 0 dB) 2 V (± 0.3)
 - Signal to noise ratio more than 100 dB
 - Dynamic range (48 kHz, 24 bit) more than 95 dB
 - Total harmonic distortion..... less than 0.005 %
 - Frequency response
CD-DA 20 Hz–20 kHz
 - BD/DVD (48 kHz)..... 20 Hz–22 kHz
 - BD/DVD (96 kHz)..... 20 Hz–44 kHz
- Video output
 - Composite 1 V_{p-p}/75 Ω
 - Component 1 V_{p-p}/75 Ω (Y)
0.7 V_{p-p}/75 Ω (PB, PR)
- HDMI output Type A Connector × 1
480p(576p)/720p/1080i/1080p/1080p@24Hz,
Deep Color, x.v.Color support
- USB Used for:
 - 1) Playback BD-LIVE/BonusView contents
 - 2) Firmware Update

General

- Power supply AC 230 V, 50 Hz
- Power consumption 20 W
- Standby power consumption less than 1 W
- Dimensions (W × H × D) 215 × 108 × 318 mm
(8 1/2 × 4 1/4 × 12 1/2 in.)
- Weight 3.4 kg
(7.5 lbs.)

Specifications are subject to change without notice.

iPod™

“iPod” is a trademark of Apple Inc., registered in the U.S. and other countries.

“Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.



Digital Audio Broadcasting

This unit supports DAB tuning.

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Refer to relevant laws in your country.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.


U.S. Patent Nos. 6,836,549; 6,381,747; 7,050,698; 6,516,132; and 5,583,936



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See <http://www.mpegla.com>.

LANGUAGE, COUNTRY LISTS

Language list

■ Language (abbreviation), code number

Japanese (ja), 1001	Bhutani (dz), 0426	Kirghiz (ky), 1125	Sinhalese (si), 1909
English (en), 0514	Esperanto (eo), 0515	Latin (la), 1201	Slovak (sk), 1911
French (fr), 0618	Estonian (et), 0520	Lingala (ln), 1214	Slovenian (sl), 1912
German (de), 0405	Basque (eu), 0521	Laothian (lo), 1215	Samoan (sm), 1913
Italian (it), 0920	Persian (fa), 0601	Lithuanian (lt), 1220	Shona (sn), 1914
Spanish (es), 0519	Finnish (fi), 0609	Latvian (lv), 1222	Somali (so), 1915
Chinese (zh), 2608	Fiji (fj), 0610	Malagasy (mg), 1307	Albanian (sq), 1917
Dutch (nl), 1412	Faroese (fo), 0615	Maori (mi), 1309	Serbian (sr), 1918
Portuguese (pt), 1620	Frisian (fy), 0625	Macedonian (mk), 1311	Siswati (ss), 1919
Swedish (sv), 1922	Irish (ga), 0701	Malayalam (ml), 1312	Sesotho (st), 1920
Russian (ru), 1821	Scots-Gaelic (gd), 0704	Mongolian (mn), 1314	Sundanese (su), 1921
Korean (ko), 1115	Galician (gl), 0712	Moldavian (mo), 1315	Swahili (sw), 1923
Greek (el), 0512	Guarani (gn), 0714	Marathi (mr), 1318	Tamil (ta), 2001
Afar (aa), 0101	Gujarati (gu), 0721	Malay (ms), 1319	Telugu (te), 2005
Abkhazian (ab), 0102	Hausa (ha), 0801	Maltese (mt), 1320	Tajik (tg), 2007
Afrikaans (af), 0106	Hindi (hi), 0809	Burmese (my), 1325	Thai (th), 2008
Amharic (am), 0113	Croatian (hr), 0818	Nauru (na), 1401	Tigrinya (ti), 2009
Arabic (ar), 0118	Hungarian (hu), 0821	Nepali (ne), 1405	Turkmen (tk), 2011
Assamese (as), 0119	Armenian (hy), 0825	Norwegian (no), 1415	Tagalog (tl), 2012
Aymara (ay), 0125	Interlingua (ia), 0901	Occitan (oc), 1503	Setswana (tn), 2014
Azerbaijani (az), 0126	Interlingue (ie), 0905	Oromo (om), 1513	Tonga (to), 2015
Bashkir (ba), 0201	Inupiak (ik), 0911	Oriya (or), 1518	Turkish (tr), 2018
Byelorussian (be), 0205	Indonesian (in), 0914	Panjabi (pa), 1601	Panjab (ts), 2019
Bulgarian (bg), 0207	Icelandic (is), 0919	Polish (pl), 1612	Tatar (tt), 2020
Bihari (bh), 0208	Hebrew (iw), 0923	Pashto, Pushto (ps), 1619	Twi (tw), 2023
Bislama (bi), 0209	Yiddish (ji), 1009	Quechua (qu), 1721	Ukrainian (uk), 2111
Bengali (bn), 0214	Javanese (jw), 1023	Rhaeto-Romance (rm), 1813	Urdu (ur), 2118
Tibetan (bo), 0215	Georgian (ka), 1101	Kirundi (rn), 1814	Uzbek (uz), 2126
Breton (br), 0218	Kazakh (kk), 1111	Romanian (ro), 1815	Vietnamese (vi), 2209
Catalan (ca), 0301	Greenlandic (kl), 1112	Kinyarwanda (rw), 1823	Volapük (vo), 2215
Corsican (co), 0315	Cambodian (km), 1113	Sanskrit (sa), 1901	Volof (wo), 2315
Czech (cs), 0319	Kannada (kn), 1114	Sindhi (sd), 1904	Xhosa (xh), 2408
Welsh (cy), 0325	Kashmiri (ks), 1119	Sangho (sg), 1907	Yoruba (yo), 2515
Danish (da), 0401	Kurdish (ku), 1121	Serbo-Croatian (sh), 1908	Zulu (zu), 2621

Country list

■ Country, code number, abbreviation

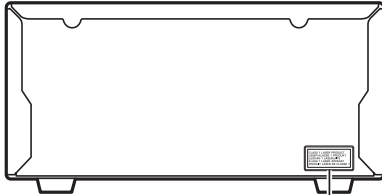
Argentina, 0118, ar	Finland, 0609, fi	Malaysia, 1325, my	Singapore, 1907, sg
Australia, 0121, au	France, 0618, fr	Mexico, 1324, mx	Spain, 0519, es
Austria, 0120, at	Germany, 0405, de	Netherlands, 1412, nl	Sweden, 1905, se
Belgium, 0205, be	Hong Kong, 0811, hk	New Zealand, 1426, nz	Switzerland, 0308, ch
Brazil, 0218, br	India, 0914, in	Norway, 1415, no	Taiwan, 2023, tw
Canada, 0301, ca	Indonesia, 0904, id	Pakistan, 1611, pk	Thailand, 2008, th
Chile, 0312, cl	Italy, 0920, it	Philippines, 1608, ph	United Kingdom, 0702, gb
China, 0314, cn	Japan, 1016, jp	Portugal, 1620, pt	USA, 2119, us
Denmark, 0411, dk	Korea, Republic of, 1118, kr	Russian Federation, 1821, ru	

CAUTION

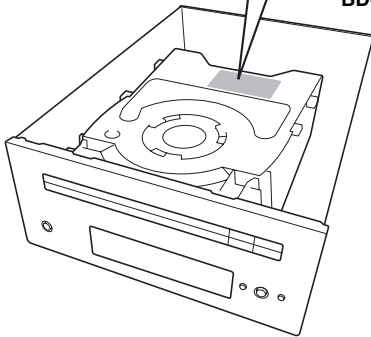
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION - VISIBLE AND / OR INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

BD-940



BD-940

**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.

Limited Guarantee for European Economic Area (EEA) and Switzerland

Thank you for having chosen a Yamaha product. In the unlikely event that your Yamaha product needs guarantee service, please contact the dealer from whom it was purchased. If you experience any difficulty, please contact Yamaha representative office in your country. You can find full details on our website (<http://www.yamaha-hifi.com/> or <http://www.yamaha-uk.com/> for U.K. resident).

The product is guaranteed to be free from defects in workmanship or materials for a period of two years from the date of the original purchase. Yamaha undertakes, subject to the conditions listed below, to have the faulty product or any part(s) repaired, or replaced at Yamaha's discretion, without any charge for parts or labour. Yamaha reserves the right to replace a product with that of a similar kind and/or value and condition, where a model has been discontinued or is considered uneconomic to repair.

Conditions

- 1 The original invoice or sales receipt (showing date of purchase, product code and dealer's name) MUST accompany the defective product, along with a statement detailing the fault. In the absence of this clear proof of purchase, Yamaha reserves the right to refuse to provide free of charge service and the product may be returned at the customer's expense.
- 2 The product MUST have been purchased from an AUTHORISED Yamaha dealer within the European Economic Area (EEA) or Switzerland.
- 3 The product must not have been the subject of any modifications or alterations, unless authorised in writing by Yamaha.
- 4 The following are excluded from this guarantee:
 - a. Periodic maintenance and repair or replacement of parts due to normal wear and tear.
 - b. Damage resulting from:
 - (1) Repairs performed by the customer himself or by an unauthorised third party.
 - (2) Inadequate packaging or mishandling, when the product is in transit from the customer. Please note that it is the customer's responsibility to ensure the product is adequately packaged when returning the product for repair.
 - (3) Misuse, including but not limited to (a) failure to use the product for its normal purpose or in accordance with Yamaha's instructions on the proper use, maintenance and storage, and (b) installation or use of the product in a manner inconsistent with the technical or safety standards in force in the country where it is used.
 - (4) Accidents, lightning, water, fire, improper ventilation, battery leakage or any cause beyond Yamaha's control.
 - (5) Defects of the system into which this product is incorporated and/or incompatibility with third party products.
 - (6) Use of a product imported into the EEA and/or Switzerland, not by Yamaha, where that product does not conform to the technical or safety standards of the country of use and/or to the standard specification of a product sold by Yamaha in the EEA and/or Switzerland.
- 5 Where the guarantee differs between the country of purchase and the country of use of the product, the guarantee of the country of use shall apply.
- 6 Yamaha may not be held responsible for any losses or damages, whether direct, consequential or otherwise, save for the repair or replacement of the product.
- 7 Please backup any custom settings or data, as Yamaha may not be held responsible for any alteration or loss to such settings or data.
- 8 This guarantee does not affect the consumer's statutory rights under applicable national laws in force or the consumer's rights against the dealer arising from their sales/purchase contract.

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



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

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



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



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

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

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



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

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

Pb



YAMAHA CORPORATION