

What's in the box

Main unit (1)

Remote controller (RC-971R) (1), Batteries (AAA/R03) (2)

Speaker setup microphone (1)

Used during Initial Setup.

Indoor FM antenna (1)

AM loop antenna (1)

Quick Start Guide (1)

This document is an online instruction manual. It is not included as an accessory.

Connect speakers with an impedance of 4  $\Omega$  to 16  $\Omega$ .

The power cord must be connected only after all other connections are completed.

We will not accept any responsibility for damage arising from the connection with equipment manufactured by other companies.

Specifications and appearance are subject to change without prior notice.

Part Names

INPUT SELECTOR dial: Switch the input to be played.

K indicator: Lights up when doing 4K upscaling or 4K pass through.

FL OFF indicator: Lights up when the display is turned off by repeatedly pressing the DIMMER button on the remote controller.

ZONE A/B button: Selects an audio output destination from among "ZONE A", "ZONE B" and "ZONE A+B". ( p46)

PRESET +/- button: Selects preset radio stations registered when using

TUNER. ( p43)

Display ( p10)

STATUS button: Switches the information on the display and is used to operate RDS ( p45).

Listening mode button: Press "AUTO/DIRECT", "SURROUND" or "STEREO" to switch the listening mode. ( p53)

Remote control sensor: Receives signals from the remote controller.

The signal range of the remote controller is within about 16' / 5 m, at an angle of 20° on the perpendicular axis and 30° to either side.

SOUND RETRIEVER button: Turns on/off the Sound Retriever function that provides better sound quality for compressed audio.

MASTER VOLUME

STANDBY/ON button

PHONES jack: Headphones with a standard plug (ø1/4"/6.3 mm) are connected.

TUNER button: Switches the input to be played to "TUNER". Also, pressing this button repeatedly switches the input between "AM" and "FM".

PERSONAL PRESET 1/2/3 buttons: Registers the current setting conditions such as input selector, listening mode, etc. or call the registered settings. ( p48)

BLUETOOTH button: Switches the input to be played to "BLUETOOTH".

SETUP MIC jack: The supplied speaker setup microphone is connected. ( p78, 89)

Display

Lights in the following conditions.

Connected by BLUETOOTH.

HDMI: HDMI signals are input and the HDMI input is selected.

DIGITAL: Digital signals are input and the digital input is selected.

Lights according to the type of input digital audio signal and the listening mode.

Lights in the following conditions.

RDS (European, Australian and Asian models): Receiving RDS broadcasting.

TUNED: Receiving AM/FM radio.

STEREO: Receiving FM stereo.

SLEEP: Sleep timer is set. ( p84)

AUTO STBY: Auto Standby is set. ( p84)

Displays the audio output destination.

A: Outputs audio only to the main room (ZONE A).

B: Outputs audio only to the separate room (ZONE B).

AB: Outputs audio to both the main room (ZONE A) and separate room (ZONE B).

Lights when headphones are connected.

Blinks when muting is on.

Displays various information of the input signals.

Lights when adjusting the volume.

Speaker/Channel display: Displays the output channel that corresponds to the selected listening mode.

## Rear Panel

HDMI OUT jacks: Transmit video signals and audio signals with a HDMI cable connected to a TV.

HDMI IN jacks: Transmit video signals and audio signals with a HDMI cable connected to an AV component.

POWER OUT port: The power (5 V/1 A) can be supplied to a streaming media player, etc. using a USB cable. ( p33) The playback function is not supported.

## Power cord

DIGITAL AUDIO IN OPTICAL/COAXIAL jacks: Input TV or AV component digital audio signals with a digital optical cable or digital coaxial cable.

ANTENNA AM LOOP/FM UNBALANCE 75  $\Omega$  terminal: The supplied antennas are connected.

AUDIO IN jacks: Input TV or AV component audio signals with an analog audio cable.

ZONE B PRE/LINE OUT jacks: Output audio signals with an analog audio cable connected to a pre-main amplifier or a power amplifier in a separate room (ZONE B).

SUBWOOFER PRE OUT jack: Connect a powered subwoofer with a subwoofer cable. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER PRE OUT jacks.

SPEAKERS terminals: Connect speakers with speaker cables. (FRONT L/R terminals of North American models support banana plugs.)

## Remote Controller

### STANDBY/ON button

PERSONAL PRESET 1/2/3 buttons: Registers the current setting conditions such as input selector, listening mode, etc. or call the registered settings. ( p48)

Input selector buttons: Switches the input to be played.

Play buttons: Used for playback operation of a BLUETOOTH-enabled device. If the unit is switched to "CEC MODE" using the MODE button, an HDMI CEC function-enabled AV component can be operated. (Depending on the device, operation may not be possible.)

AV ADJUST) button: Settings such as "HDMI" and "Audio" can be made quickly during play on the TV screen. ( p86)

Cursor buttons and ENTER button: Select the item with the cursors and press

ENTER to confirm your selection. button: Display advanced setting items on the TV or the display to have a more enjoyable experience with this unit. ( p69)

TONE/DIALOG/SW buttons: Adjusts the sound quality of the speakers and volume level of the subwoofer. ( p50)

LISTENING MODE buttons: Allows you to select the listening mode. ( p53)

DIMMER button: You can switch the display off or adjust the brightness of the display in three steps.

CLEAR button: Deletes all characters you have entered when entering text on the TV screen.

Fav button: Used to register AM/FM radio stations. ( p43)

SLEEP button: Set the sleep timer. Select the time from "30 min", "60 min" and min". ( p52)

ZONE A/B button: Selects an audio output destination from among "ZONE A", "ZONE B" and "ZONE A+B".( p46)

STATUS) button: Switches the information on the display and is used to operate RDS p45). button: Returns the display to the previous state. button: Temporarily mutes audio. Press again to cancel muting.

Volume buttons

AUDIO SEL button: When a device is connected to two or more audio input terminals for one input selector, you can select which audio input signal to play.

SOUND RETRIEVER button: Turns on/off the Sound Retriever function that provides better sound quality for compressed audio.

MODE button: Switches between automatic tuning and manual tuning for AM/FM stations p41). Also, when an HDMI CEC function-enabled AV component is connected to this unit, you can switch "4. Play buttons" between "CEC MODE" and "RCV MODE" (normal mode).

Speaker Installation

Channel System

This is a basic 5.1 Channel System. Front speakers output the front stereo sound, and a center speaker outputs the sound of the center of the screen, such as dialogs and vocals. Surround speakers create the back sound field. Powered subwoofer reproduces the bass sound, and creates the rich sound field.

The front speakers should be positioned at ear height while the surround speakers should be positioned just above ear height. The center speaker should be set up facing the listening position at an angle. Placing the powered subwoofer between the center speaker and the front speaker gives you a natural sound even when playing music sources.

Front Speakers

Center Speaker

## Surround Speakers

## Powered Subwoofer

## Channel System

This is a 7.1 Channel System that consists of the basic 5.1 Channel System ( p16) and added surround back speakers. Front speakers output the front stereo sound, and a center speaker outputs the sound of the center of the screen, such as dialogs and vocals. Surround speakers create the back sound field. Powered subwoofer reproduces the bass sound, and creates the rich sound field. Surround back speakers improves the sense of envelopment and connectivity of sound in the back sound field, and provides a more real sound

## Speaker Connections and "Speaker Setup" Settings

### Connections

#### Note) Speaker Impedance

Connect speakers with an impedance of 4  $\Omega$  to 16  $\Omega$ . If any of the speakers to be connected has an impedance of 4  $\Omega$  or more and less than 6  $\Omega$ , set "Speaker

Impedance" to "4 ohms" for "Speaker Setup" in the Initial Setup section ( p88). When setting "Speaker Impedance" from the Setup menu, press on the remote controller, and set "2. Speaker" - "Configuration" - "Speaker Impedance" ( p73) to "4 ohms".

### Connect the Speaker Cables

Make correct connection between the unit's jacks and speaker's jacks (+ side to + side, and - side to - side) for each channel. If the connection is wrong, a bass sound will not be reproduced properly due to reverse phase. Twist the wires exposed from the tip of the speaker cable so that the wires do not stick out of the speaker terminal when connecting. If the exposed wires touch the rear panel, or the + side and - side wires touch each other, a malfunction may occur.

### Connect the Subwoofer

#### To ARC TV

If the TV supports the ARC (Audio Return Channel) function (\*), use only the HDMI cable to connect with the TV. Use the ARC-compatible HDMI IN jack of the TV for connection.

### Setup

Settings are required to use the ARC function. Select "Yes" for "3. ARC Setup" in Initial Setup ( p88). If "No, Skip" is selected, settings are required in the

Setup menu after Initial Setup is completed. Press on the remote controller, and set "6. Hardware" - "HDMI" - "Audio Return Channel" to "On". ( p83)

For detailed settings for TV connection, CEC function and audio output, refer to the instruction manual of the TV.

ARC function: This function transmits the audio signals of the TV via an HDMI cable, and plays the audio of the TV on this unit. Connection to an ARC- compatible TV is complete with one HDMI cable. To check if the TV supports the ARC function, refer to the instruction manual of the TV, etc. field.

The front speakers should be positioned at ear height while the surround speakers should be positioned just above ear height. The center speaker should be set up facing the listening position at an angle. Placing the powered subwoofer between the center speaker and the front speaker gives you a natural sound even when playing music sources. The surround back speakers should be positioned at ear height.

If surround back speakers are installed, be sure to install surround speakers as well.

Front Speakers

Center Speaker

Surround Speakers

Powered Subwoofer

Surround Back Speakers

To Non-ARC TV

If the TV does not support the ARC (Audio Return Channel) function (\*), connect an HDMI cable and digital optical cable. If the TV does not have a DIGITAL OPTICAL OUT jack, you can use an analog audio cable to connect with the AUDIO IN TV jack.

If you use a cable set-top box, etc. connected to the input jack of this unit to watch TV (without using a TV's built-in tuner), connection with a digital optical cable or analog audio cable is not required.

ARC function: This function transmits the audio signals of the TV via an HDMI cable, and plays the audio of the TV on this unit. Connection to an ARC- compatible TV is complete with one HDMI cable. To check if the TV supports the ARC function, refer to the instruction manual of the TV, etc.

Connecting an Audio Component

This is a connection example of an audio component. Connect a CD player using a digital coaxial cable or analog audio cable.

Playback

## AV Component Playback

You can play the audio from AV components, such as Blu-ray disc players through this unit.

### Basic Operations

Perform the following procedure when this unit is on.

Switch the input on the TV to the input connected to the unit.

Press the input selector whose name is the same as that of the jack to which the player is connected.

For example, press BD/DVD to play the player connected to the BD/DVD jack.

Press TV to listen the sound of the TV.

When the CEC link function works, the input switches automatically when a CEC compliant TV or player is connected to this unit using HDMI connection.

Start play on the AV component.

## BLUETOOTH® Playback

You can wirelessly play the audio on a BLUETOOTH-enabled device, such as a smartphone.

### Basic Operations

Perform the following procedure when this unit is on.

#### Pairing

When you press the BLUETOOTH button, "Now Pairing..." is displayed on this unit's display, and the pairing mode is enabled.

Enable (turn on) the BLUETOOTH function of the BLUETOOTH-enabled device, and then select this unit from among the devices displayed. If a password is requested, enter "0000".

This unit is displayed as "Pioneer VSX-834 XXXXXX".

To connect another BLUETOOTH-enabled device, press and hold the

BLUETOOTH button until "Now Pairing..." is displayed, and then perform step 2. This unit can store the pairing information of up to 8 paired devices.

The coverage area is approx. 48' / 15 m. Note that connection is not always guaranteed with all BLUETOOTH-enabled devices.

#### Playing Back

Perform the connection procedure on the BLUETOOTH-enabled device.

Playing the music file.

The input on this unit automatically switches to "BLUETOOTH".

Turn up the volume of the BLUETOOTH-enabled device to an appropriate level.

Due to the characteristics of BLUETOOTH wireless technology, the sound produced on this unit may slightly be behind the sound played on the BLUETOOTH-enabled device.

### ZONE B Playback

While performing playback in the main room (ZONE A), you can enjoy the audio of the same source in the separate room (ZONE B) at the same time.

### Playing Back

Press ZONE A/B to select an audio output destination.

ZONE A: Outputs audio only to the main room (ZONE A). "A" on the display of the main unit lights up.

ZONE B: Outputs audio only to the separate room (ZONE B). "B" on the display of the main unit lights up.

ZONE A+B: Outputs audio to both the main room (ZONE A) and separate room (ZONE B). "A" and "B" on the display of the main unit light up.

Start play on the AV component.

If the unit is connected to the pre-main amplifier in the separate room, adjust the volume on the pre-main amplifier. If the unit is connected to the power amplifier or ZONE speaker in the separate room, adjust the volume on the remote controller.

When connecting the power amplifier, set "Zone B Output Level" to

Variable" for "Speaker Setup" in the Initial Setup section ( p88). When setting "Zone B Output Level" from the Setup menu, press on the remote controller, and set "2. Speaker" - "Configuration" - "Zone B Output Level" ( p73) to "Variable". If it is not set, a large volume is output and the power amplifier, speakers, etc. may be damaged.

If "ZONE A+B" is selected as an audio output destination, you can select only the "Stereo" listening mode for the main room (ZONE A) when using the 2.1ch speaker layout. When using a speaker layout of 3.1ch or more, you can select only the "Ext.Stereo" listening mode.

### Sleep Timer

You can allow the unit to enter standby automatically when the specified time has elapsed.

Press SLEEP button on the remote controller to select the time from "30 min", "60 min" and "90 min".

Off": The unit does not automatically enter standby mode.

You can also set this by pressing the button on the remote controller and selecting "6. Hardware" - "Power Management" - "Sleep Timer" ( p84) on the Setup menu.

## Listening Mode

You can change the listening mode during play by pressing repeatedly "AUTO/DIRECT", "SURR", or "STEREO".

### Selecting a Listening mode

Each of AUTO/DIRECT, SURR, and STEREO buttons stores the listening mode that was selected last. If content incompatible of the listening mode selected last is played, the most standard listening mode for the content is automatically selected.

For details of the effects of each listening mode, refer to "Listening Mode Effects" ( p58).

For listening modes selectable for each audio format of input signals, refer to "Input Formats and Selectable Listening Modes" ( p62).

## Setup

### Menu operations

Use the on-screen displays (OSD) that appear on the TV to make the settings.

Press on the remote controller to display the Setup menu.

### Setup

#### Input/Output Assign

#### Source

#### Miscellaneous

#### Hardware

#### Speaker

#### MCACC

#### Audio Adjust

#### TV Out / OSD

#### Analog Audio Input

#### Input Skip

#### PERSONAL PRESET Information

#### HDMI Input

#### Digital Audio Input

Select the item with the cursor / buttons of the remote controller and press

ENTER to confirm your selection.

Use the cursors / to change the default values.

To return to the previous screen, press .

To exit the settings, press .

### Input/Output Assign

#### TV Out / OSD

Make settings for TV output and On-Screen Displays (OSD) that appear on the TV.

#### HDMI Input

Change input assignment between the input selectors and HDMI IN jacks.

#### Speaker

#### Configuration

Change the settings of connection environment of the speakers.

#### AV Adjust

#### Menu operations

You can quickly adjust the settings you frequently use, such as tone adjustments, etc.

You can make the settings on the TV screen while playing something. Press on the remote controller to display the AV Adjust menu.

Select the item with the cursor / buttons of the remote controller and press

ENTER to confirm your selection.

Use the cursors to change the settings.

To return to the previous screen, press .

To exit the settings, press .

#### HDMI

Sound Delay: If the video is behind the audio, you can delay the audio to offset the gap. Different settings can be set for each input selector.

It cannot be set if the listening mode is Pure Direct and the input signal is analog.

Audio Return Channel: You can enjoy the sound of the HDMI-connected ARC- compatible TV through the speakers connected to the unit. Select "On" when listening to the audio of TV using the speakers of this unit. Select "Off" when the

ARC function is not used.

#### Audio

Sound Retriever: Improve the quality of the compressed audio. Playback sound of lossy compressed files such as MP3 will be improved. The setting can be separately set to each

input selector. The setting is effective in the signals of kHz or less. The setting is not effective in the bitstream signals.

It cannot be set if the listening mode is Direct or Pure Direct.

Midnight: Make small sounds easily heard. It is useful when you need to reduce the volume while watching a movie late night. You can enjoy the effect only when playing Dolby series and DTS series input signals.

It cannot be set if the listening mode is Direct or Pure Direct.

The setting cannot be used in the following cases.

If "Loudness Management" is set to "Off" when playing Dolby Digital Plus or Dolby TrueHD

When the input signal is DTS:X and "Dialog Control" is other than 0 dB

If you set the unit to the standby mode, the adjustments you made will be restored to the previous statuses.

#### MCACC

MCACC EQ: Enable or disable the equalizer function that corrects for distortion caused by the acoustic environment of the room.

It cannot be set if the listening mode is Pure Direct.

Phase Control: Correct phase disturbance in the low range to enhance the bass.

This enables you to achieve powerful bass reproduction that is faithful to the original sound.

It cannot be set if the listening mode is Pure Direct.

Theater Filter: Adjust the soundtrack that was processed to enhance its high pitch range, in order to make it suitable for home theater.

It cannot be set if the listening mode is Direct or Pure Direct.

#### Level

Front: Adjust the speaker level of the front speaker while listening to the sound.

Center: Adjust the speaker level of the center speaker while listening to the sound.

Subwoofer: Adjust the speaker level of the subwoofer while listening to the sound.

If you set the unit to the standby mode, the adjustments you made will be restored to the previous statuses.

Initial Setup with Auto Start-up Wizard

Operations



When you turn the unit on for the first time after purchase, the Initial Setup screen is automatically displayed on the TV to allow you to make settings required for startup using simple operations following on-screen guidance.

Switch the input of the TV to the input connected to the unit.

Put batteries into the remote controller of this unit.

Press on the remote controller to turn the unit on.

When the language selection screen is displayed on TV, select the language with the cursors / and press ENTER.

Select the item with the cursors of the remote controller, and press ENTER to confirm your selection. To return to the previous screen, press .

If you have terminated the Initial Setup halfway, turn this unit to standby mode.

Then turning the power on again can display the Initial Setup again.

The Initial Setup appears on the screen each time the power is turned on unless the Initial Set up is completed or "Never Show Again" is selected on the first screen.

To perform the Initial Setup again after the setting is completed, press , select "7. Miscellaneous" - "Initial Setup", and press ENTER.

#### Speaker Setup

Select the connected speaker configuration, and press ENTER.

Note that the image on the screen changes each time you select the number of channels in "Speaker Channels".

#### Speaker Setup

Select how many speakers you have. ENTER Next

#### Speaker Channels

#### Zone B Speaker

#### Speaker Impedance

Yes

Fixed ohms or above

#### Zone B Output Level

#### Subwoofer

Height Speaker - - -

The speaker combination selected in step 1 is displayed. "Yes" is displayed for the selected speakers. If the setting is correct, press ENTER.

Select "Next" and press ENTER. Then a test tone is output from each speaker to confirm the connection. Selecting each speaker with the cursors / will output the test tone. Press ENTER after confirmation.

If there is no problem with the speaker connection, select "Next" and press ENTER. To return to "Speaker Setup", select "Back to Speaker Setup" and press ENTER.

#### Full Auto MCACC

Place the supplied speaker setup microphone at the listening position. The unit automatically measures the test tones output from each speaker, and sets the optimum volume level for each speaker, the crossover frequencies, and the distance from the listening position. This also automatically adjusts the equalizers for the speakers, and enables correction of sound distortion caused by the acoustic environment of the room.

It takes between 3 and 12 minutes for calibration to be completed. Each speaker outputs the test tone at high volume during measurement, so be careful of your surroundings. Also, keep the room as quiet as possible during measurement.

If you connect a subwoofer, check the power and volume of the subwoofer.

Set the subwoofer volume to more than half.

If the power of this unit suddenly turns off, the wires in the speaker cables have touched the rear panel or other wires, and the protection circuit is working. Twist the wires again securely, and make sure they do not stick out of the speaker terminals when connecting.

Place the supplied speaker setup microphone at the listening position, and connect it to the SETUP MIC jack on the main unit.

#### SETUP MIC

When placing the speaker setup microphone on a tripod, refer to the illustration.

Confirm a test tone is output from the subwoofer and press ENTER.

Press ENTER. Then, test tones are output from each speaker, and the connected speakers and the noise in the surrounding environment are automatically measured.

The measurement results in step 3 are displayed. Select "Next", and press

ENTER. The test tones are output again. Then, the unit automatically sets the optimum volume level, crossover frequency, etc.

When the measurement is completed, the measurement results are displayed.

You can check each setting using the cursors / . Select "Save" and press

ENTER to save the settings.

Disconnect the speaker setup microphone.

#### ARC Setup

To connect with an ARC-compatible TV, select "Yes". The ARC setting on this unit turns on, and you can listen to the TV's audio through this unit.

If you select "Yes", the HDMI CEC function is enabled and power consumption increases during standby.

## Troubleshooting

### Before starting the procedure

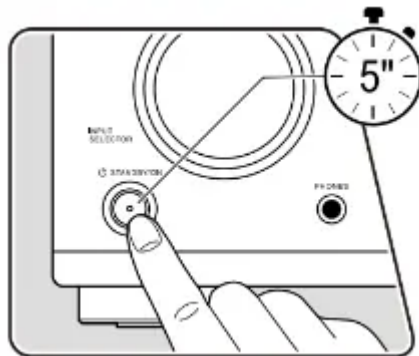
Problems may be solved by simply turning the power on/off or disconnecting/ connecting the power cord, which is easier than working on the connection, setting and operating procedure. Try the simple measures on both the unit and the connected device. If the problem is that the video or audio is not output or the HDMI linked operation does not work, disconnecting/connecting the HDMI cable may solve it. When reconnecting, be careful not to wind the HDMI cable since if wound the HDMI cable may not fit well. After reconnecting, turn off and on the unit and the connected device.

- The AV receiver contains a microPC for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least seconds, and then plug it back in.
- Our company is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

### When the unit is operating erratically

#### Try restarting the unit

Restarting this unit may solve the problem. After turning the unit to standby mode, press and hold the STANDBY/ON button of the main unit for at least 5 seconds, and then restart the unit. (The settings on this unit are kept.) If the problem persists after restarting the unit, unplug and plug the power cords or HDMI cable of this unit and connected devices.

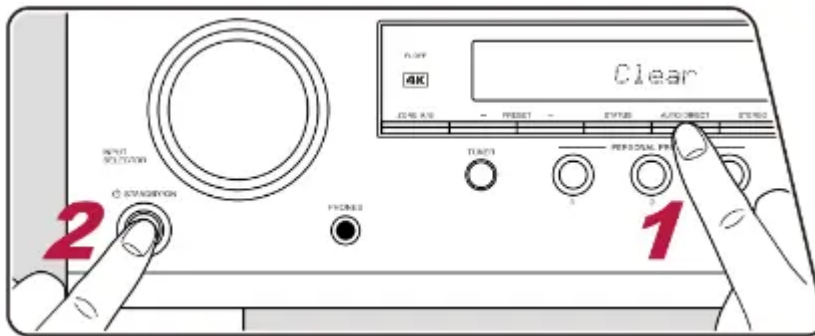


#### Resetting the unit (this resets the unit settings to the default)

If the restart of the unit does not solve the problem, reset the unit, and restore all the settings to the factory default at the time of purchase. This may solve the problem.

If the unit is reset, your settings are restored to the default values. Be sure to note down your setting contents before performing the following operations.

1. While pressing and holding AUTO/DIRECT of the input selector on the main unit with the unit turned on, press the STANDBY/ON button.
2. "Clear" is displayed on the display, and the unit returns to the standby state. Do not remove the power cord until "Clear" disappears from the display.



## Power

When the power is turned on, "AMP Diag Mode" appears on the display of the main unit.

- The protection circuit function may have operated. If the unit suddenly enters the standby state and "AMP Diag Mode" appears on the display of the main unit when the power is turned on again, this function is diagnosing whether or not the main unit is malfunctioning or there is an abnormality with the speaker cable connection. When the diagnosis is complete, the following messages are displayed.


CH SP WIRE	If the unit returns to the normal ON state after "CH SP WIRE" appears on the display, the speaker cable may have been short-circuited. After setting the power of this unit to standby state, connect the speaker cable again. Twist the wires exposed from the tip of the speaker cable so that the wires do not stick out of the speaker terminal.
NG: *****	If the operation has stopped with "NG" displayed on the display, set the power of this unit to standby state immediately and remove the power plug from the outlet. The unit may be malfunctioning. Consult a dealer.

## The unit turns off unexpectedly

- If "6. Hardware" - "Power Management" - "Auto Standby" on the Setup menu is activated, the unit automatically enters the standby mode.
- The protection circuit function may have operated due to an abnormal rise in temperature of the unit. In such a case, the power turns off repeatedly even if the power is turned on each time. Secure sufficient ventilation space around the unit, wait for a while until the temperature of the unit decreases. Then, turn the power on again.

**WARNING:** If smoke, smell or abnormal noise is produced by the unit, unplug the power cord from the outlet immediately, and contact the dealer or our company's Support. p84)

## Audio

- Make sure that the speaker setup microphone is no longer connected.
- Confirm that the connection between the output jack on the connected device and the input jack on this unit is correct.
- Make sure that none of the connecting cables are bent, twisted, or damaged.
- If the  indicator on the display blinks, press on the remote controller to cancel muting.
- While headphones are connected to the PHONES jack, no sound is output from the speakers.
- When "5. Source" - "Audio Select" - "Fixed PCM" in the Setup menu is set to "On", no sound is played if signals other than PCM are input. Change the setting to Off.

Check the following if the problem persists after you have confirmed the above.

### No sound from the TV

- Change the input selector on this unit to the position of the terminal to which the TV is connected.
- If the TV does not support the ARC function, along with the connection by an HDMI cable, connect the TV with this unit using a digital optical cable or analog audio cable. (p32)

### No sound from a connected player

- Change the input selector on this unit to the position of the terminal to which the player is connected.
- Check the digital audio output setting on the connected device. On some game consoles, such as those supporting DVD, the default setting may be off.
- For some DVD-Video discs, you need to select an audio output format from a menu.

### A speaker produces no sound

- Make sure that the polarity (+/-) of the speaker cables is correct, and that no bare wires are in contact with the metal part of speaker terminals.
- Make sure that the speaker cables are not shorting out.
- Check "Connect the Speaker Cables" ( p22) to see if the speaker connections have been made correctly. Settings for the speaker connection environment need to be made in "Speaker Setup" in Initial Setup. Check "Initial Setup with Auto Start-up Wizard" ( p88).
- Depending on the input signal and listening mode, not much sound may be output from speakers. Select another listening mode to see if sound is output.
- If surround back speakers are installed, be sure to install surround speakers as well.

- A maximum of 5.1 ch playback is possible when Bi-Amping connection is used. Be sure to remove the jumper bar on the speakers when using Bi-Amping connection. p22)

### **The subwoofer produces no sound**

If the setting of the front speakers is "Large", the low range elements will be output from the front speakers instead of from the subwoofer during 2 ch audio input of TV or music. To output the sound from the subwoofer, make one of the following settings.

1. Change the front speakers settings to "Small".

The low range elements will be output from the subwoofer rather than the front speakers. We do not recommend changing this if your front speakers have good low range reproduction capabilities.

2. Change "Double Bass" to "On".

The low range elements of the front speakers will be output from both the front speakers and the subwoofer. Due to this, the bass sound may be emphasized too much. In such a case, do not change the setting, or make the setting with the above option 1.

- For the setting details, refer to "2. Speaker" - "Crossover" in the Setup menu.
- If the input signals do not contain subwoofer audio elements (LFE), the subwoofer may produce no sound. p74)

### **Noise can be heard**

- Using cable ties to bundle audio pin cables, power cords, speaker cables, etc. may degrade the audio performance. Do not bundle the cords.
- An audio cable may be picking up interference. Change the position of the cables.

### **The beginning of audio received by an HDMI IN cannot be heard**

- Since it takes longer to identify the format of an HDMI signal than it does for other digital audio signals, audio output may not start immediately.

### **Sound suddenly reduces**

- When using the unit for extended periods with the temperature inside the unit exceeding a certain temperature, the volume may be reduced automatically to protect the circuits.

### **Listening Modes**

- To enjoy digital surround playback in formats such as Dolby Digital, you need to make a connection for audio signals with an HDMI cable, digital coaxial cable or digital optical cable. Also, audio output need to be set to Bitstream output on the connected Blu-ray Disc player, etc.

- Press **i** on the remote controller several times to switch the display of the main unit, and you can check the input format.

Check the following if the problem persists after you have confirmed the above.

### **Cannot select a desired listening mode**

- Depending on the connection status of the speaker, some listening modes may not be selected. Refer to "Speaker Layouts and Selectable Listening Modes" ( p56) or "Input Formats and Selectable Listening Modes" ( p62) in "Listening Mode".

### **Cannot listen to the sound in Dolby TrueHD, Dolby Atmos or DTS-HD Master Audio format**

- If the audio in Dolby TrueHD, Dolby Atmos or DTS-HD Master Audio format cannot be output correctly in the source format, set "BD video supplementary sound" (or reencode, secondary sound, video additional audio, etc.) to "Off" in the setting of a connected Blu-ray Disc player, etc. After changing the setting, switch the listening mode to that for each source, and confirm.

### **About DTS signals**

- With media that switches suddenly from DTS to PCM, PCM playback may not start immediately. In such a case, stop playback on the player side for approx. 3 seconds or more. Then, resume playback. The playback will be performed normally.
- DTS playback may not be performed normally on some CD and LD players even if the player and this unit are digitally connected. If some processing (e.g., output level adjustment, sampling frequency conversion, or frequency characteristic conversion) has been executed for the DTS signal being output, this unit cannot recognize it as a genuine DTS signal, and noise may occur.
- While playing a DTS-compatible disc, if a pause or skip operation is performed on your player, noise may occur for a short period. This is not a malfunction.

### **Video**

- Confirm that the connection between the output jack on the connected device and the input jack on this unit is correct.
- Make sure that none of the connecting cables are bent, twisted, or damaged.
- When the TV image is blurry or unclear, the power cord or connection cables of the unit may have interfered. In such a case, keep distance between TV antenna cable and cables of the unit.
- Check the switching of the input screen on the monitor side such as a TV.

Check the following if the problem persists after you have confirmed the above.

### **No image appears**

- Change the input selector on this unit to the position of the terminal to which the player is connected.

### **No image from a device connected to HDMI IN jack**

- To display video from the connected player on the TV while the unit is in standby, you need to enable "6. Hardware" - "HDMI" - "HDMI Standby Through" in the Setup menu. For details of the HDMI Standby Through function, refer to "6. Hardware" - "HDMI" in the Setup menu.
- Check if "Resolution Error" is displayed on the main unit display when video input via HDMI IN jack is not displayed. In this case, the TV does not support the resolution of the video input from the player. Change the setting on the player.
- Normal operation with an HDMI-DVI adapter is not guaranteed. In addition, video signals output from a PC are not guaranteed. p82)

### **Images flicker**

- The output resolution of the player may not be compatible with the resolution of the TV. If the player is connected to this unit with an HDMI cable, change the output resolution on the player. Also this may be solved by changing the screen mode on the TV.

### **Video and audio are out of synch**

- Depending on the settings on your TV and connection environment, the video may be behind the audio. To adjust, press on the remote controller, and adjust in "HDMI" - "Sound Delay" in the "AV Adjust". p86)

### **Linked operation**

#### **HDMI linked operation does not work with CEC-compliant devices, such as a TV**

- In the Setup menu of the unit, set "6. Hardware" - "HDMI" - "HDMI CEC" to "On".
- It is also necessary to set HDMI linking on the CEC-compliant device. Check the instruction manual.
- When connecting a Sharp brand player or recorder to the HDMI IN jacks, set "6. Hardware" - "HDMI" - "HDMI Standby Through" to "Auto" in the Setup menu.

### **Tuner**

#### **Poor reception or much noise**

- Recheck the antenna connection.
- Move the antenna away from the speaker cord or power cord.

- Move the unit away from your TV or PC.
- Passing cars or airplanes in the vicinity can cause interference.
- If radio waves are blocked by concrete walls, etc., radio reception may be poor.
- Change the reception mode to mono ( p42).
- Operating the remote controller during AM reception may cause noise.
- FM reception may be clearer if you use the antenna jack on the wall used for the TV. (p36)

### **BLUETOOTH function**

- Unplug and plug the power cord of the unit, or turn off and on the BLUETOOTH-enabled device. Restart of the BLUETOOTH-enabled device may be effective.
- BLUETOOTH-enabled devices must support the A2DP profile.
- Because a radio wave interference will occur, this unit may not be used near devices such as a microwave oven or cordless phone which use the radio wave in the 2.4 GHz range.
- A metallic object near the unit can affect on the radio wave, and BLUETOOTH connection may not be possible.

Check the following if the problem persists after you have confirmed the above.

#### **Cannot connect with this unit**

- Check if the BLUETOOTH function of the BLUETOOTH-enabled device is enabled. ( p83)

#### **Music playback is unavailable on the unit even after successful BLUETOOTH connection**

- When the audio volume of your BLUETOOTH-enabled device is set low, the audio may not be played back. Turn up the volume of the BLUETOOTH-enabled device.
- Depending on the BLUETOOTH-enabled device, the Send/Receive selector switch may be equipped. Select Send mode.
- Depending on the characteristics or specifications of the BLUETOOTH-enabled device, music may not be played back on this unit.

#### **Sound is interrupted**

- There may a problem with the BLUETOOTH-enabled device. Check the information on a web page.

### **The audio quality is poor after connection with a BLUETOOTH-enabled device**

- The BLUETOOTH reception is poor. Move the BLUETOOTH-enabled device closer to the unit, or remove any obstacle between the BLUETOOTH-enabled device and this unit.

### **ZONE B function**

#### **Cannot ZONE B-output the audio of externally connected AV components**

- To output audio to ZONE B, set the audio output destination to "ZONE A+B" or "ZONE B". ( p46)

### **Remote Controller**

- Make sure that the batteries are inserted with the correct polarity.
- Insert new batteries. Do not mix different types of batteries, or old and new batteries.
- Make sure that the sensor of the main unit is not subjected to direct sunlight or inverter-type fluorescent lights. Relocate it if necessary.
- If the main unit is installed in a rack or cabinet with colored-glass doors, or if the doors are closed, the remote controller may not work normally.

### **Display**

#### **The display does not light up**

- When the Dimmer function is working, the display may go dim or turn off. Press the DIMMER button, and change the brightness level of the display. p13)

### **Others**

#### **Strange noise can be heard from the unit**

- If you have connected another device to the same outlet as this unit, strange noise may occur under the influence of the device. If the symptom is remedied by removing the power plug of the other device from the outlet, use different outlets for this unit and the device.

#### **The message "Noise Error" appears during Full Auto MCACC**

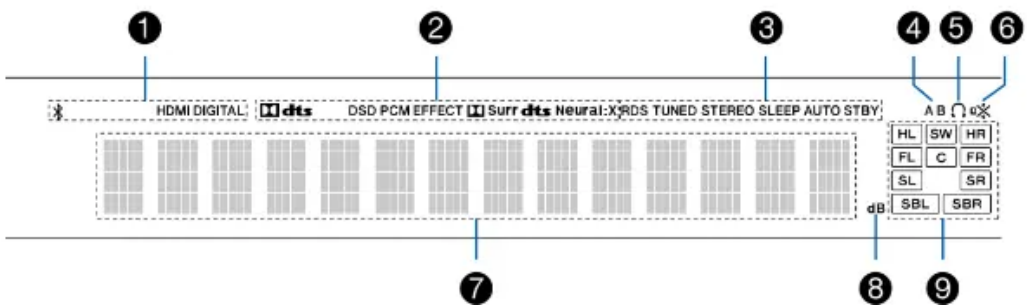
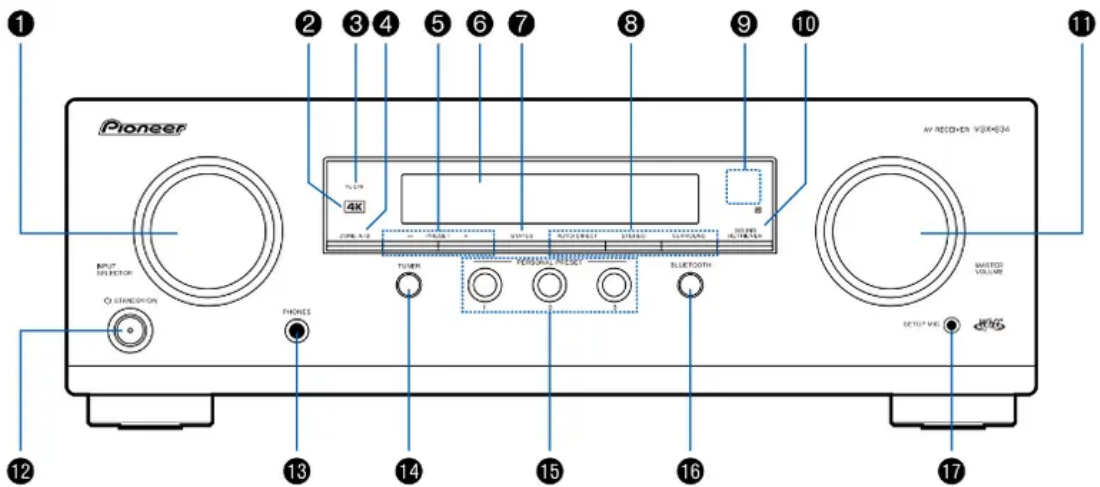
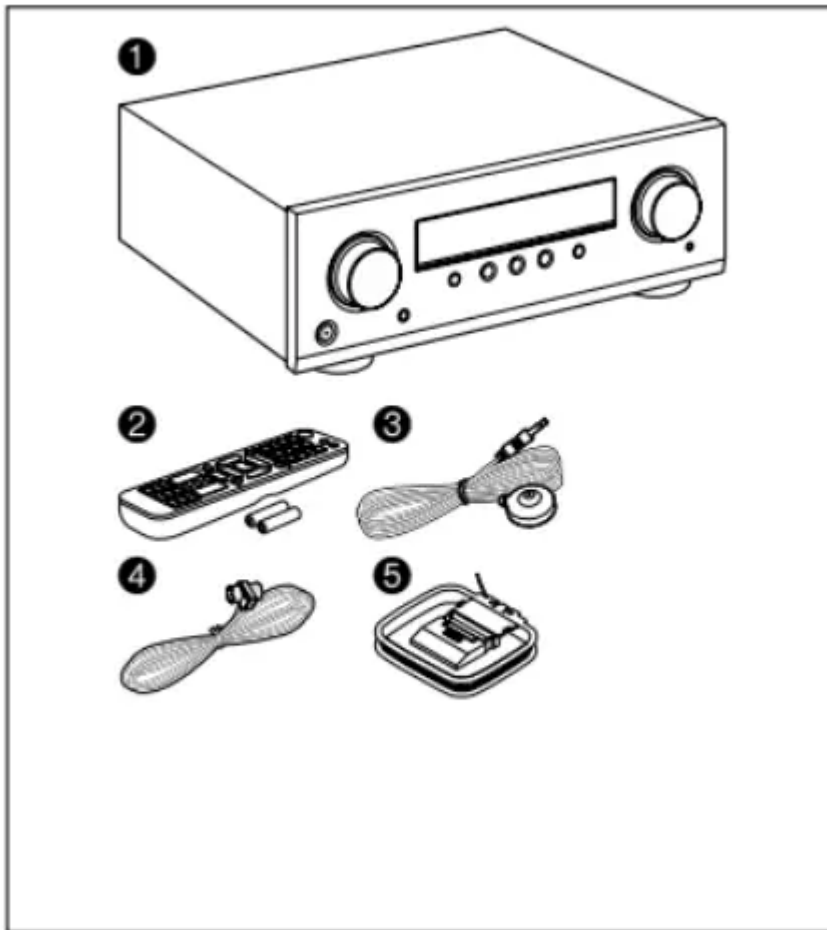
- This can be caused by a malfunction in your speaker unit. Check the speaker output, etc.

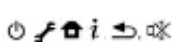
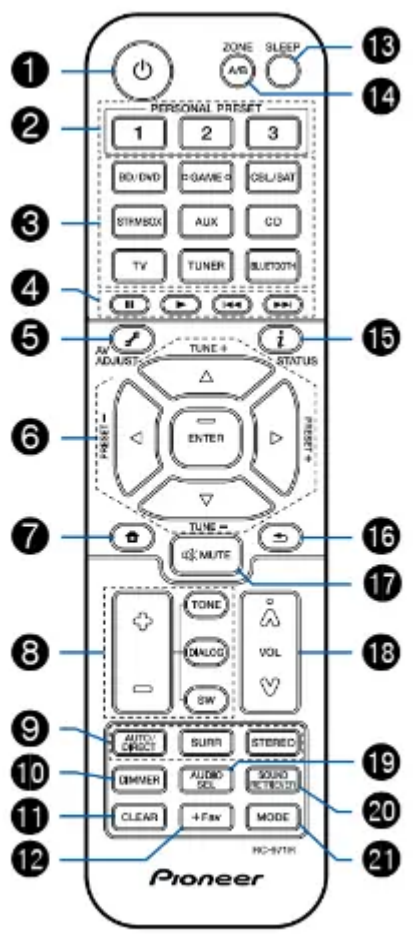
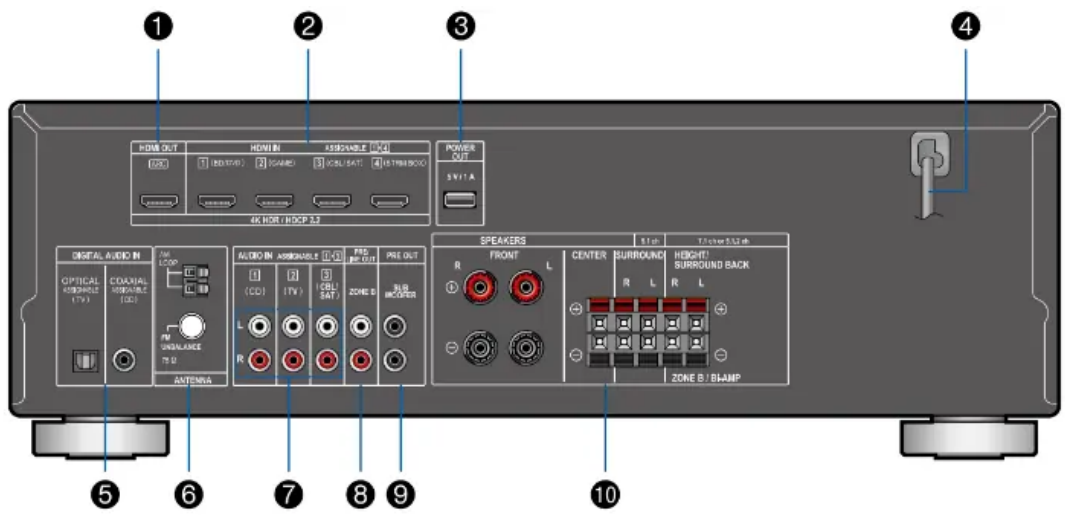
**The measurement results of Full Auto MCACC show different distances to the speakers from the actual ones**

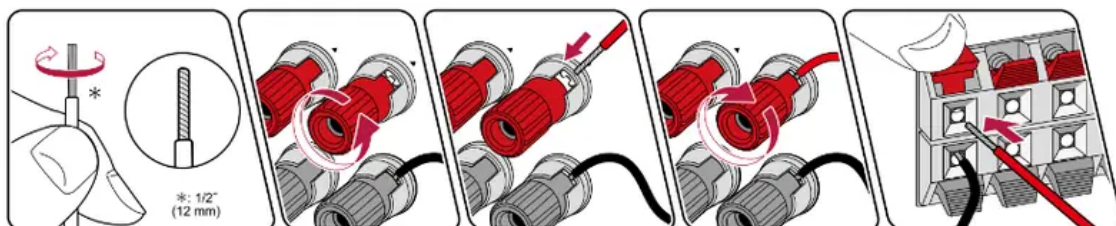
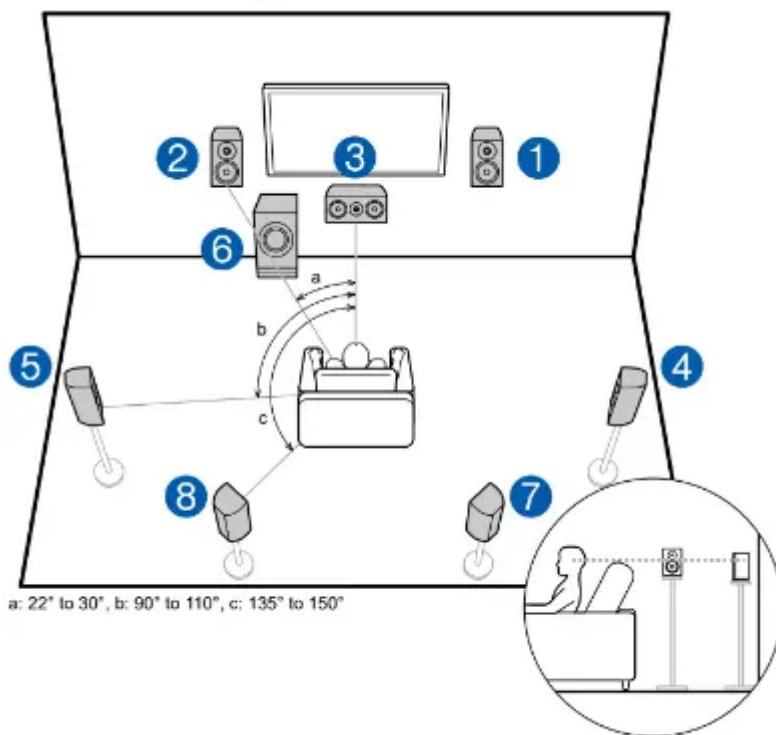
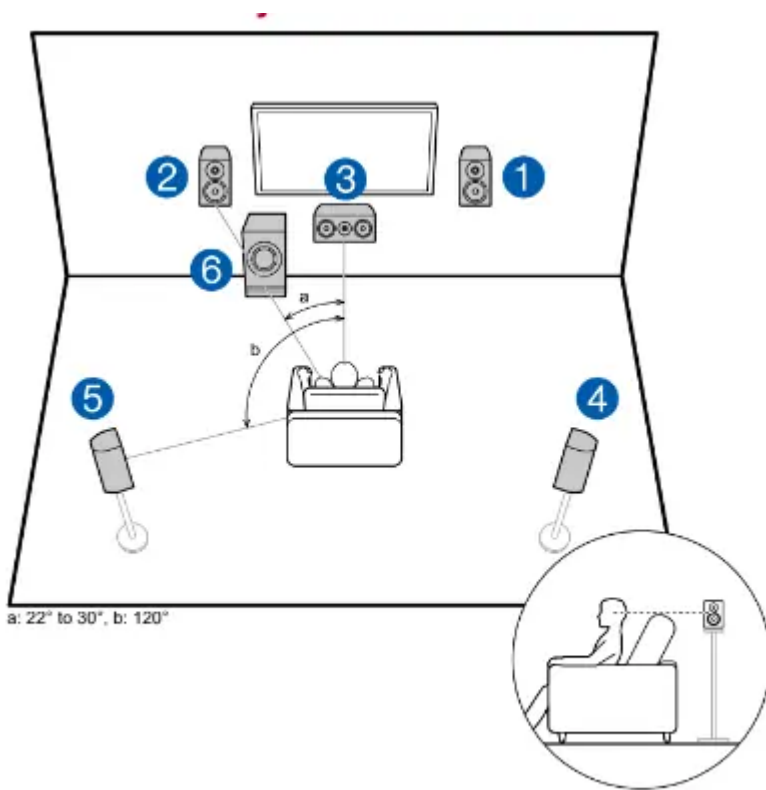
- Depending on the speakers you are using, some errors may occur in the measurement results. If this is the case, make the settings in "2. Speaker" - "Distance" in the Setup menu. p75)

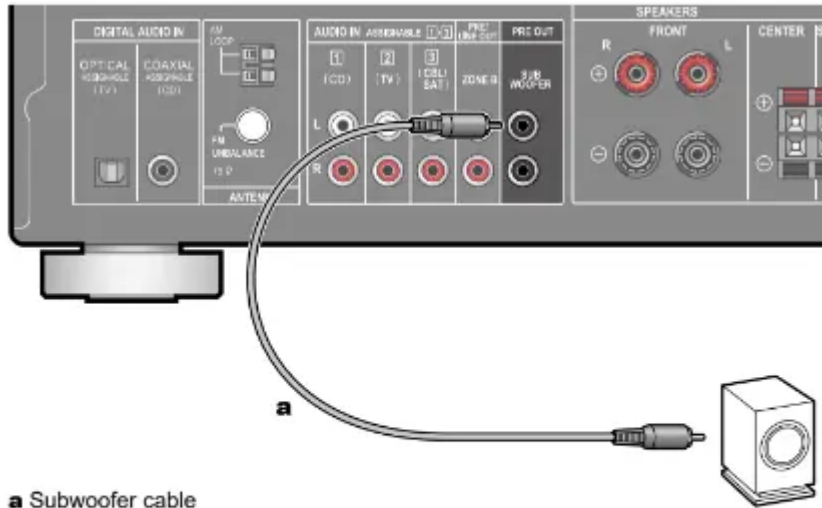
**Midnight function does not work**

- Make sure the source material is Dolby Atmos, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution, DTS-HD Master Audio, or DTS:X.



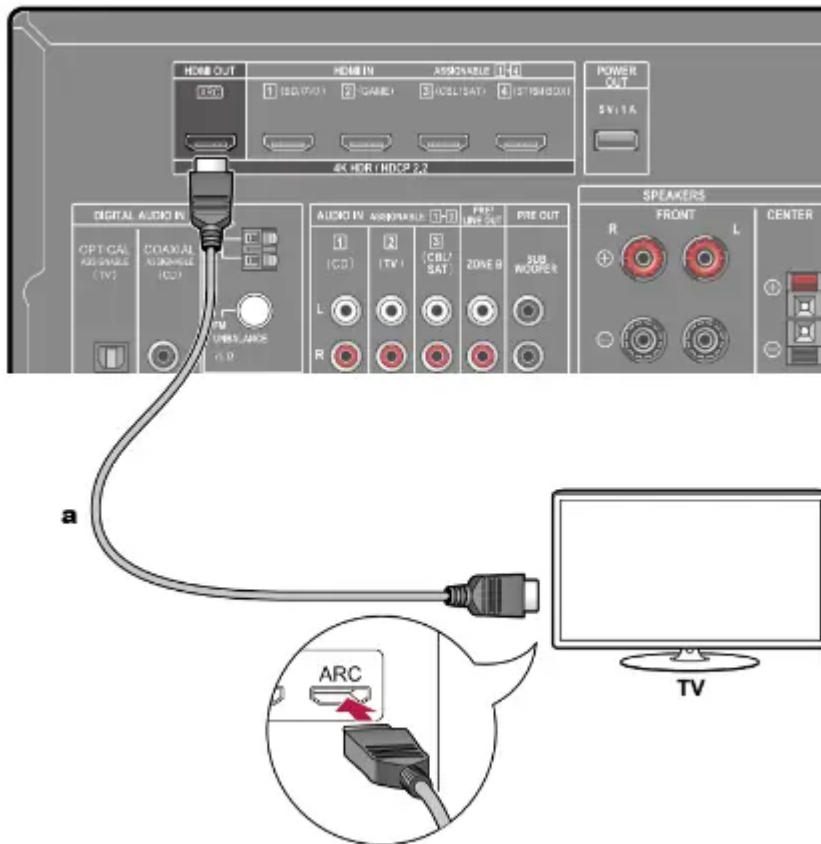


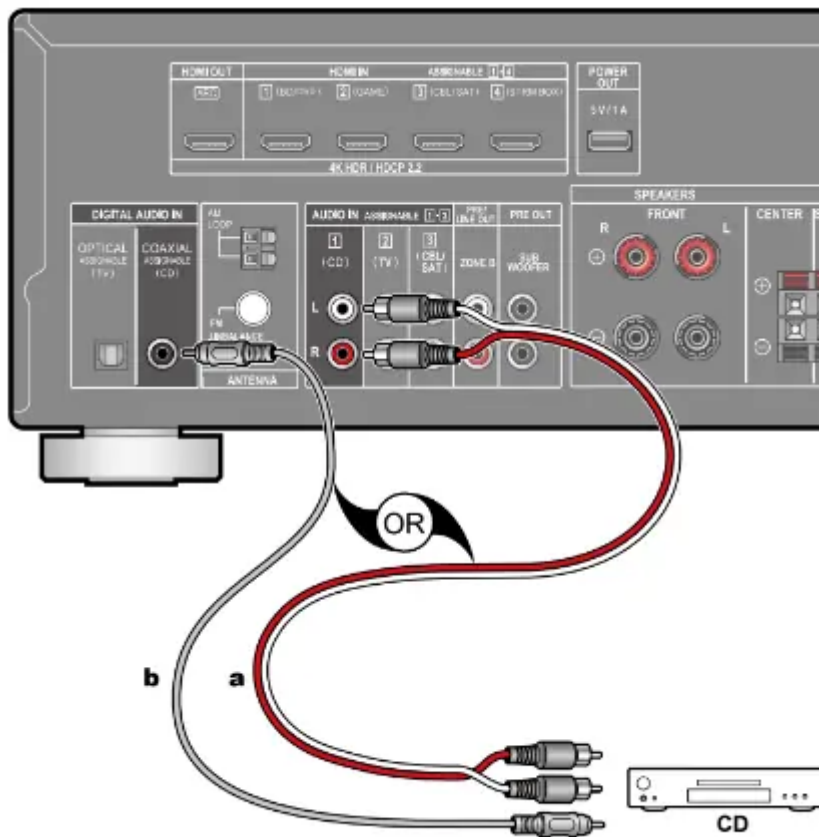
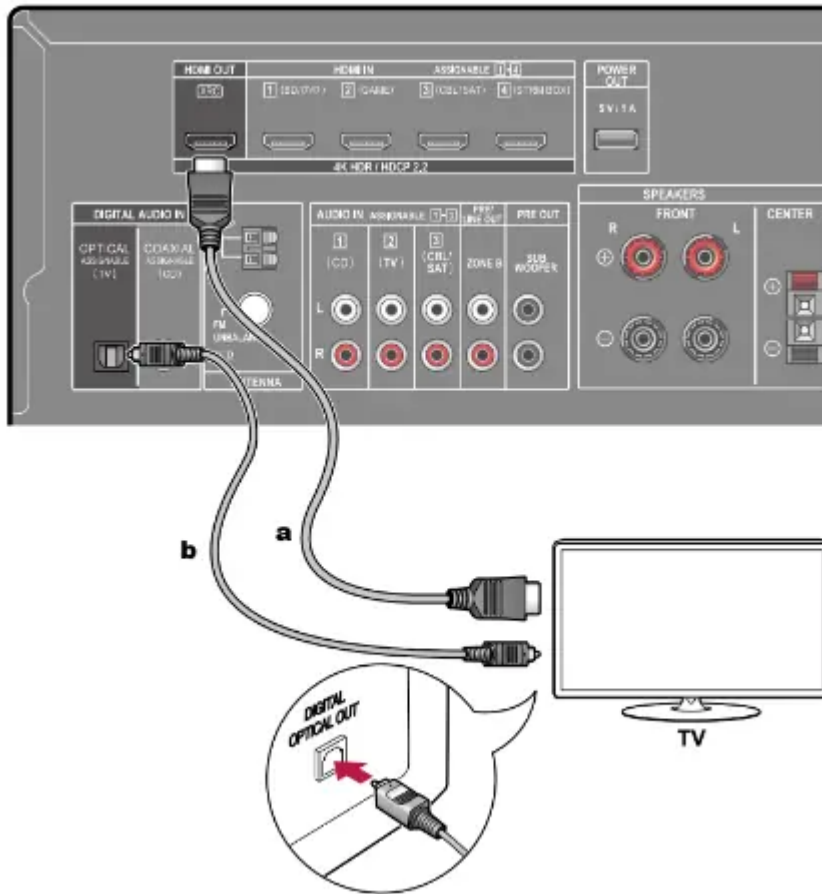


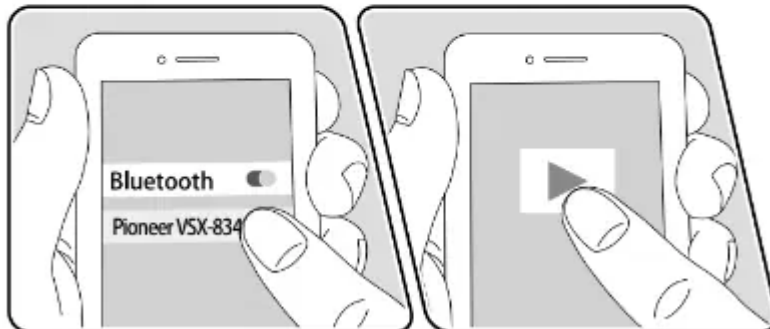
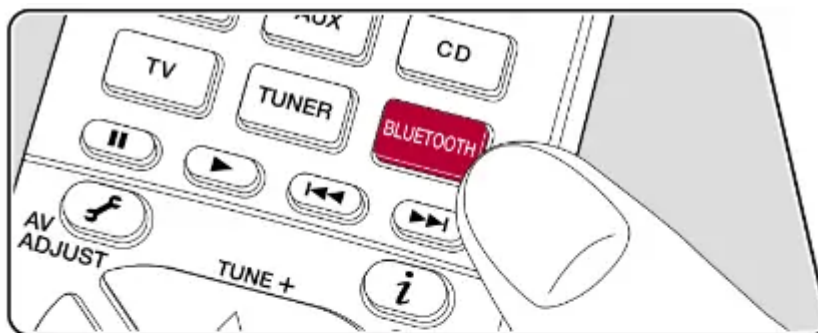
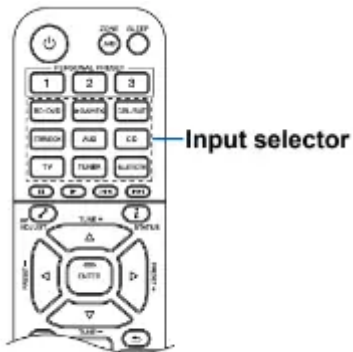
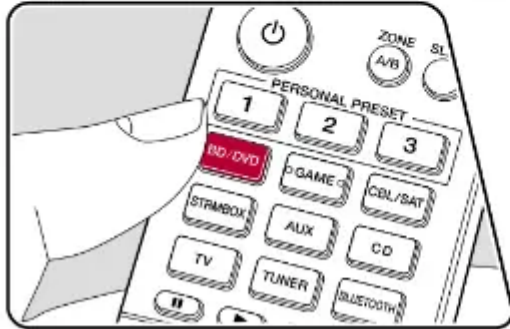
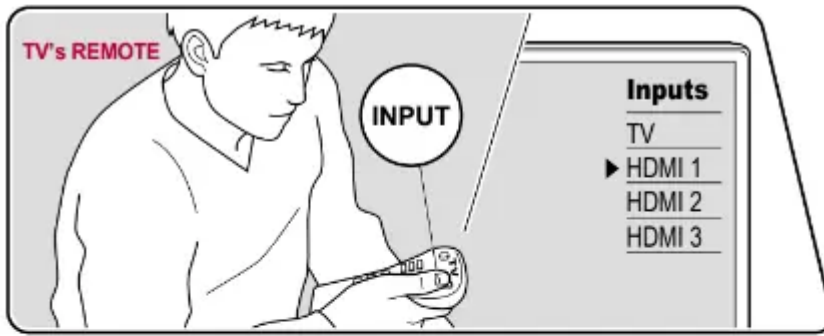


**a** Subwoofer cable

Connect a powered subwoofer with this unit using a subwoofer cable. Up to two powered subwoofers can be connected. The same signal is output from each SUBWOOFER PRE OUT jack.





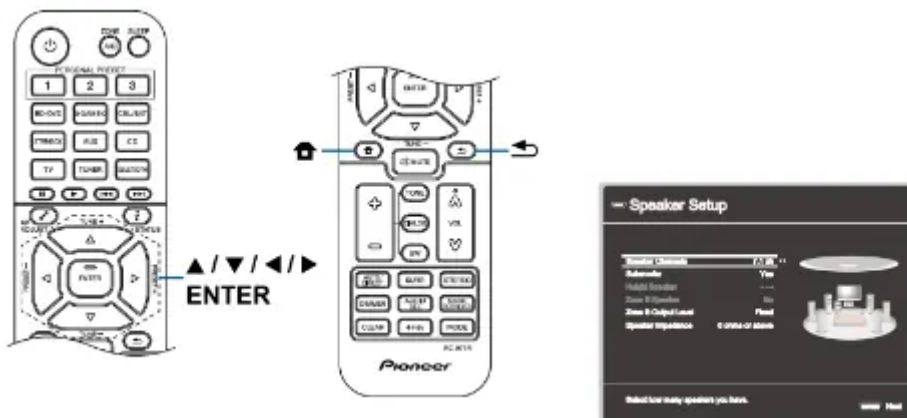
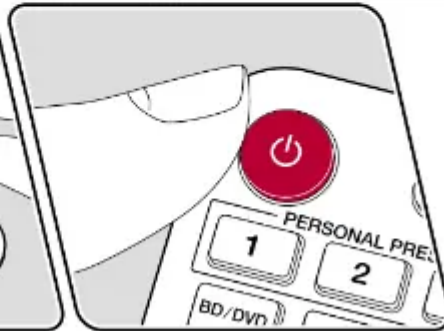
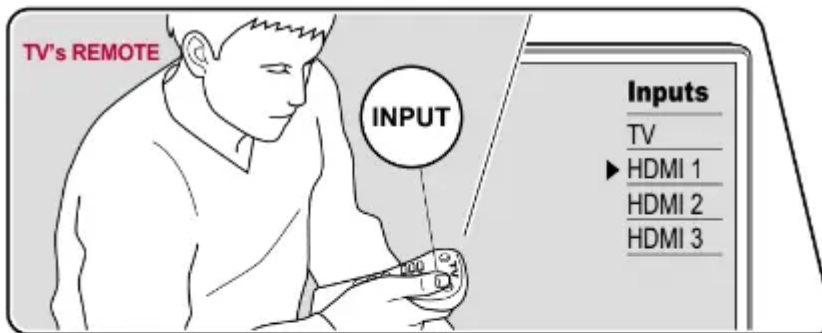
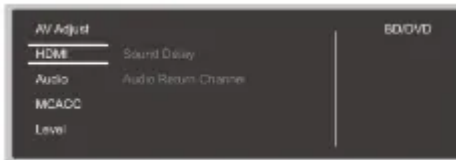
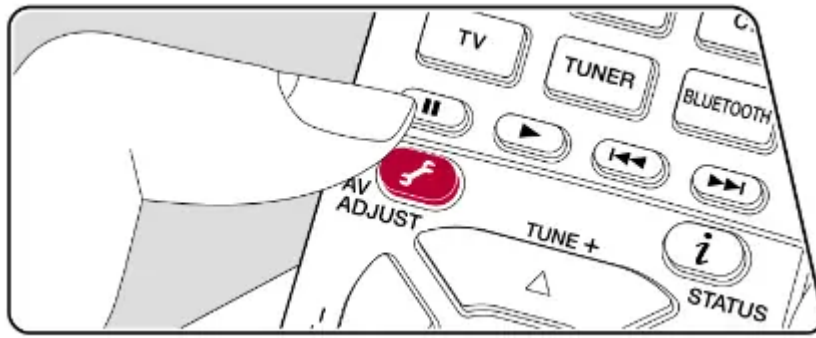






Setting Item	Default Value	Setting Details
1080p -> 4K Upscaling	Auto	When using a TV that supports 4K, video signals input at 1080p can be automatically upscaled to 4K for output. *Off*: When this function is not to be used *Auto*: When this function is to be used • Select *Off* if your TV does not support 4K.
Super Resolution	2	When you have set *1080p -> 4K Upscaling* to *Auto*, you can select the degree of video signal correction from *Off* and between *1* (weak) and *3* (strong).
OSD Language	English	Select the on-screen display language from the following. (North American models) English, German, French, Spanish, Italian, Dutch, Swedish (European, Australian and Asian models) English, German, French, Spanish, Italian, Dutch, Swedish, Russian, Chinese
Impose OSD	On	Set whether or not to display information such as volume adjustment or switching of input on the TV screen. *On*: OSD is displayed on the TV. *Off*: OSD is not displayed on the TV. • OSD may not be displayed depending on the input signal even if *On* is selected. In this case, change the resolution of the connected device.
Screen Saver	3 minutes	Set the time to start the screen saver. Select a value from *3 minutes*, *5 minutes*, *10 minutes* and *Off*.

Setting Item	Default Value	Setting Details
BD/DVD	HDMI 1	*HDMI 1* to *HDMI 4*: Assign a desired HDMI IN jack to the BD/DVD input selector. If you do not assign a jack, select *---*. To select an HDMI IN jack already assigned to another input selector, change its setting to *---* first.
GAME	HDMI 2	*HDMI 1* to *HDMI 4*: Assign a desired HDMI IN jack to the GAME input selector. If you do not assign a jack, select *---*. To select an HDMI IN jack already assigned to another input selector, change its setting to *---* first.
CBL/SAT	HDMI 3	*HDMI 1* to *HDMI 4*: Assign a desired HDMI IN jack to the CBL/SAT input selector. If you do not assign a jack, select *---*. To select an HDMI IN jack already assigned to another input selector, change its setting to *---* first.
STRM BOX	HDMI 4	*HDMI 1* to *HDMI 4*: Assign a desired HDMI IN jack to the STRM BOX input selector. If you do not assign a jack, select *---*. To select an HDMI IN jack already assigned to another input selector, change its setting to *---* first.



**Warning**

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