DENON

AVR-1513
AV SURROUND RECEIVER

Getting Started

Mise en route / Antes de empezar / Iniciação

Read before use

Thank you for purchasing this DENON product.
This manual explains the removal of the product from its packaging box and how to easily enjoy the home theatre system.

Contents

Accessories

Check that the following parts are supplied with the product.

⑤　　　　　　　⑦　　　　　　　⑧

About this manual

❏ **Operation buttons**

The operations described in this manual are based mainly on remote control operation.

❏ **Symbols**

☞　This symbol indicates a reference page on which related information is described.

◎　This symbol indicates the page of the owner's manual on the CD-ROM provided.

✎　This symbol indicates a supplementary information and tips for operations.

NOTE　This symbol indicates points to remember operations or function limitations.

❏ **Illustrations**

Note that the illustrations in this manual is for explanation purposes and may differ from the actual unit.

❏ **About the CD-ROM
(Getting Started / Owner's manual)**

Get
ADOBE® READER®

You need to have Adobe Reader® installed on your computer to view the owner's manuals on the CD-ROM.
Click the Adobe Reader® banner in the CD-ROM menu to install the Adobe Reader® (for Windows).

If you click the ? mark on the front cover of the supplied owner's manuals on the CD-ROM, the mark operation explanation screen list is displayed. Check this list before viewing the owner's manuals on the CD-ROM.

Cautions on handling

• **Before turning the power switch on**
Check once again that all connections are correct and that there are no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is set to the standby mode. When going on vacation or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

• **About Condensation**
If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.
If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

• **Cautions on using mobile phones**
Using a mobile phone near this unit may result in noise. If that occurs, move the mobile phone away from this unit when it is in use.

• **Moving the unit**
Turn off the power and unplug the power cord from the power outlet. Next, disconnect the connection cables to other system units before moving the unit.

• **About Care**
• Wipe the cabinet and control panel clean with a soft cloth.
• Follow the instructions when using a chemical cleaner.
• Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not be used.

Connecting the speakers

This unit can perform 2.0/2.1 to 5.1-channel surround playback.
**Here, we explain the installation and connection procedure when using 5.1-channel speakers.**
For the installation procedure when using other than 5.1-channel, see ☞ ◎ page 22 "Speaker installation/connection (Advanced connection)".

❏ **Do not plug the power plug of the main unit into the wall socket until these preparations are complete.**

❏ **For operation of the connected devices, refer to the user manuals for each device.**

What you need for this step
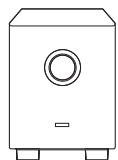
Speaker
(sold separately)
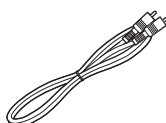
FL FR SL SR

C
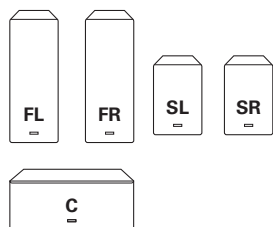
Speaker cable
(sold separately)

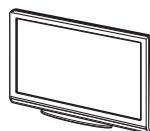• Prepare enough for the number of speakers you will use.

Subwoofer (with built-in amplifier)
(sold separately)
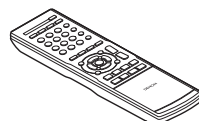
Subwoofer cable
(sold separately)

TV
(sold separately)

HDMI cable
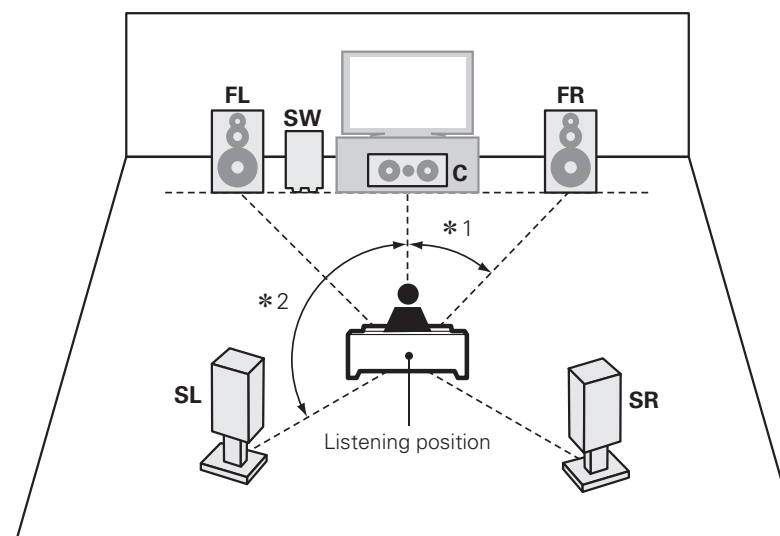(sold separately)

Remote control unit
(supplied)

R03/AAA batteries
(supplied)

Install

❏ **When 5.1-channel installed**

FL SW FR
C
∗1
∗2
SL SR
Listening position

∗1 22° – 30°   ∗2 120°

FL Front speaker (L)
FR Front speaker (R)
C   Center speaker
SW Subwoofer
SL Surround speaker (L)
SR Surround speaker (R)

• Use the illustration below as a guide for how high each speaker should be installed. The height does not need to be exactly the same.

Surround speaker
Front speaker
2 – 3 ft /
60 – 90 cm
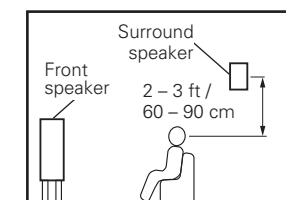
【Viewed from the side】

2

Preparation

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the this unit, and be sure to interconnect the channels and polarities correctly.

Connecting the speaker cables

Peel off about 0.03 ft/10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.
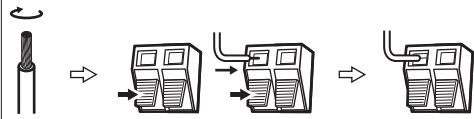

NOTE

• **Disconnect this unit's power plug from the power outlet before connecting the speakers. Also, turn off the subwoofer.**
• **Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (☞⊚ page 51 "Protection Circuit").**
• **Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.**
• **Use speakers with the speaker impedances shown below.**

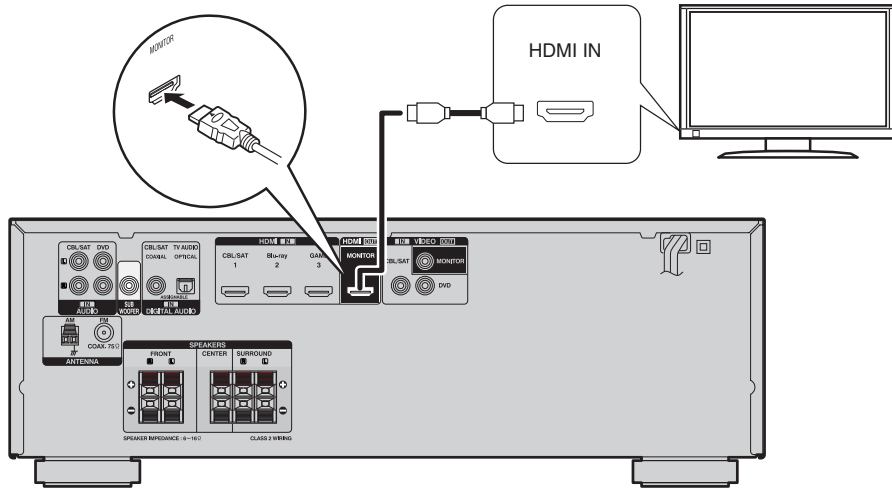| Speaker terminals	Speaker impedance
FRONT	6 – 16 Ω
CENTER	
SURROUND	

## Connect
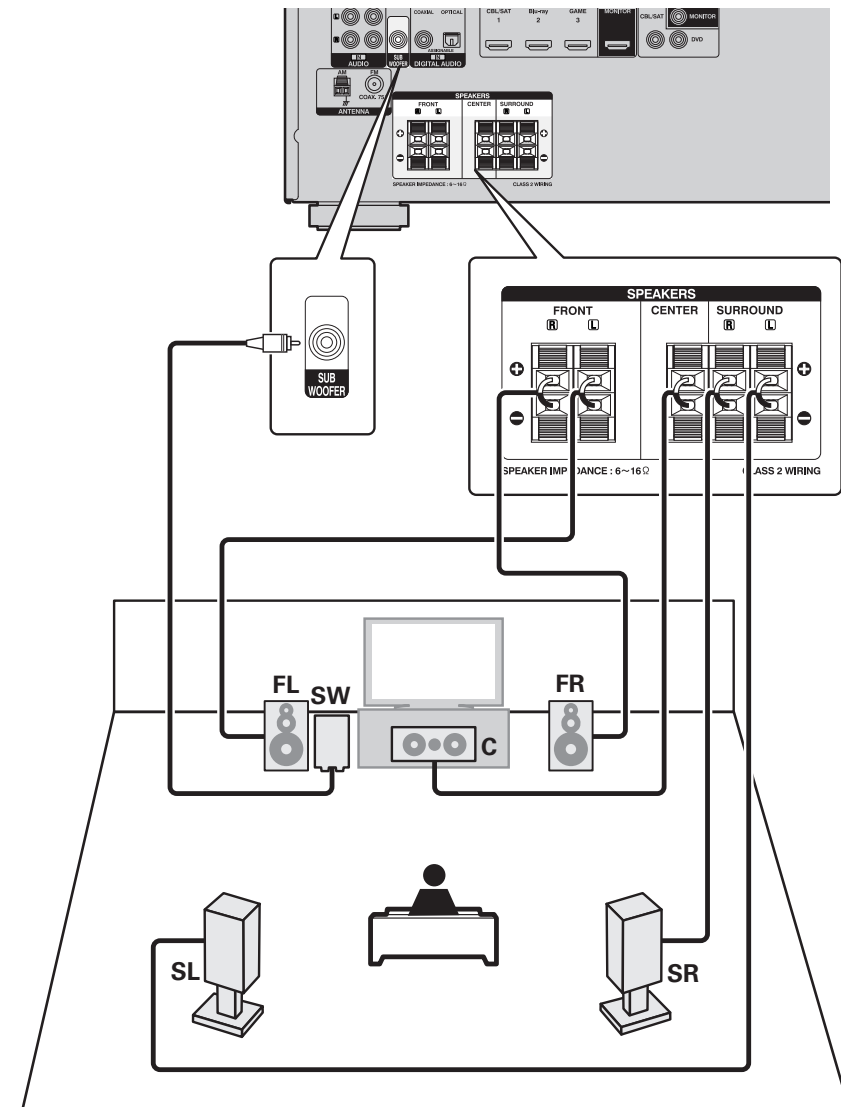
Before setting up the speakers

1 Connect this unit to the television using an HDMI cable (sold separately)

When a device supporting Deep Color signal transfer is connected, use a cable compatible "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet".

HDMI IN

2 Turn the television and subwoofer power on, and switch the video input to this unit (HDMI input)

For details on how to operate the television and subwoofer , see the television and subwoofer instruction manual.

① **Power on**

② **Power on**

③ **Switch the input to this unit (HDMI input)**
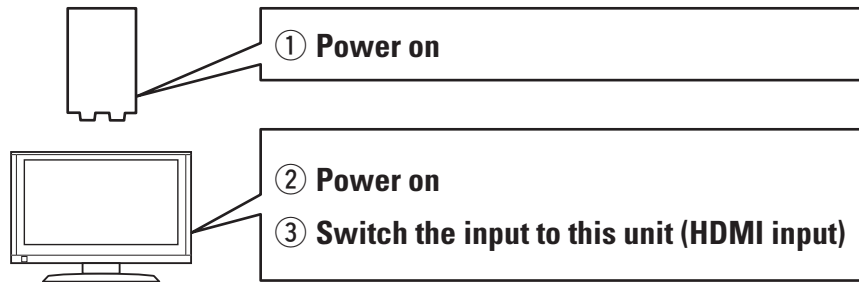
3 Insert the main unit power plug into the wall socket

To household power outlet
(AC 120 V, 60 Hz)
Power cord
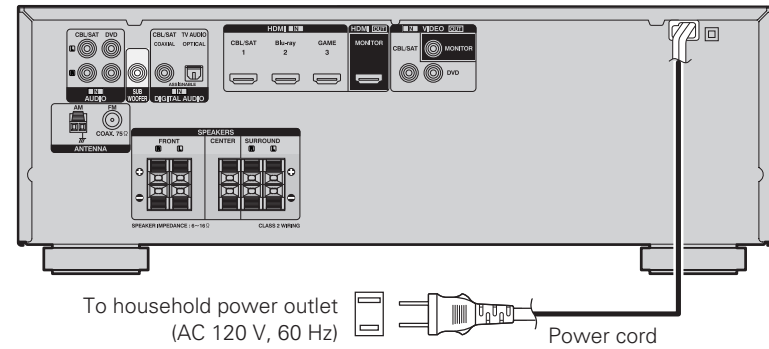
4 Insert the provided batteries into the remote control unit

① Remove the rear lid in the direction of the arrow and remove it.

② Load the two batteries properly as indicated by the marks in the battery compartment.

R03/AAA
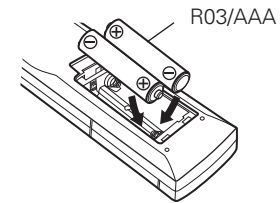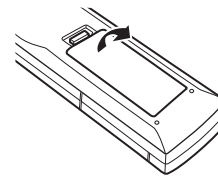
③ Put the rear cover back on.

5 Turn on power to the unit

The power indicator flashes green and the power turns on.

Press POWER ⏻

You can also switch the power to standby by pressing ⏻ on the main unit.

4

Set up speakers

For optimum surround playback, adjustment of the distance of speakers and sound level of each channel, using the test tone, are required, depending on the environment for speakers to be used.
The settings for the following 5 items should be made:

Speaker Config.

Select speaker configuration and size (bass reproduction capability).

Bass Setting

Set subwoofer and LFE signal range playback.

Distance

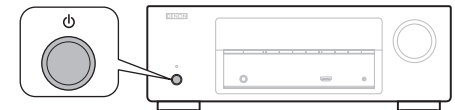Set distance from listening position to speakers. Measure beforehand the distance from the listening position to each speaker.
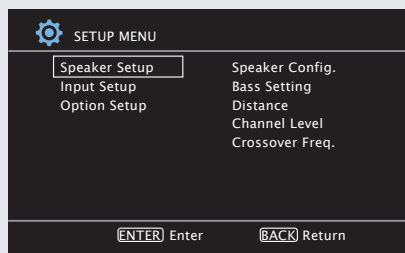
Channel Level

Set the volume of the test tone to be the same when it is output from each speaker.

Crossover Freq.

Set the maximum frequency of the bass signal output from each channel to the subwoofer. Set the Crossover Frequency to suit the bass reproduction capability of the speaker being used.
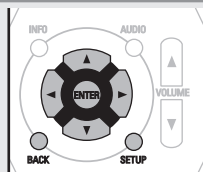
Menu operation

1 **Press SETUP.**
The menu is displayed on the TV screen of this unit.

> **SETUP MENU**
>
> Speaker Setup   Speaker Config.
> Input Setup   Bass Setting
> Option Setup   Distance
>   Channel Level
>   Crossover Freq.
>
> ENTER Enter   BACK Return

2 **Press ENTER.**

3 **Use △▽ to select the menu to be set or operated, and then press ENTER.**

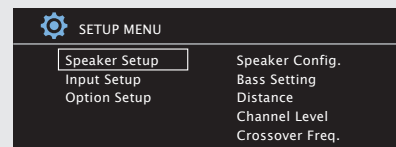**4** **Use ◁ ▷ to select a detailed setting, and then press ENTER.**
• To return to the previous item, press **BACK**.
• Exiting the Menu, press **SETUP** while the menu is displayed.
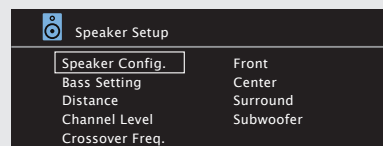The menu display disappears.

Speaker Config.

Default settings are underlined.
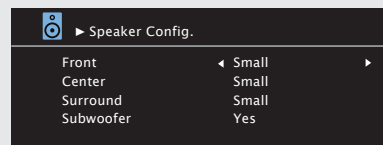
1 **Press SETUP.**
The menu is displayed on the TV screen of this unit.

> **SETUP MENU**
>
> Speaker Setup   Speaker Config.
> Input Setup   Bass Setting
> Option Setup   Distance
>   Channel Level
>   Crossover Freq.

2 **Use △▽ to select "Speaker Setup", and then press ENTER.**

> **Speaker Setup**
>
> Speaker Config.   Front
> Bass Setting   Center
> Distance   Surround
> Channel Level   Subwoofer
> Crossover Freq.

3 **Use △▽ to select "Speaker Config.", and then press ENTER.**

> **▶ Speaker Config.**
>
> Front   ◀ Small   ▶
> Center   Small
> Surround   Small
> Subwoofer   Yes

NOTE

Do not use the outward shape of the speaker to determine selection of a "Large" or "Small" speaker. Instead, use the frequencies set in "Crossover Freq." (☞page 8) as the standard for determining bass reproduction capability.

4 **Use △▽ to select a speaker, and use ◁ ▷ to select a detailed setting.**
Items to be set are shown below.

Front   Set the front speaker size.

• **Large** : Use a large speaker that can adequately play back low frequencies.
• **Small** : Use a small speaker that has inadequate playback capacity for low frequencies.

✎
• When "Subwoofer" is set to "No", "Front" is automatically set to "Large".
• When "Front" is set to "Small", "Center", "Surround" and "Surround Back" can not be set to "Large".

Center   Set the presence and size of the center speaker.

• **Large** : Use a large speaker that can adequately play back low frequencies.
• **Small** : Use a small speaker that has inadequate playback capacity for low frequencies.
• **None** : Select when a center speaker is not connected.

✎ "Large" is not displayed when "Front" is set to "Small".

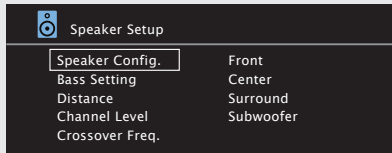**Surround**   Set the presence and size of the surround speakers.

• **Large** : Use a large speaker that can adequately play back low frequencies.
• **Small** : Use a small speaker that has inadequate playback capacity for low frequencies.
• **None** : Select when the surround speakers are not connected.

Speaker Config. (Cont.)

Bass Setting

Distance

Subwoofer Set the presence of a subwoofer.

• **Yes** : Use a subwoofer.
• **No** : Select when a subwoofer is not connected.

✎ When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes".
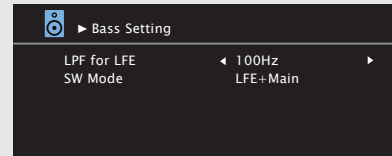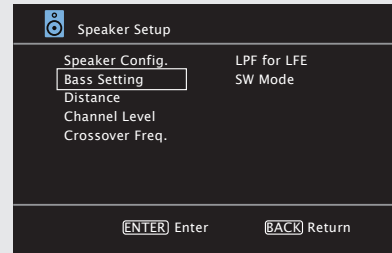
5 **Press ENTER to enter the setting.**

```
  Speaker Setup

  Speaker Config.      Front
  Bass Setting         Center
  Distance             Surround
  Channel Level        Subwoofer
  Crossover Freq.
```

1 **Use △▽ to select "Bass Setting", and then press ENTER.**

```
  Speaker Setup

  Speaker Config.      LPF for LFE
  Bass Setting         SW Mode
  Distance
  Channel Level
  Crossover Freq.

  ENTER Enter        BACK Return
```

```
  ▶ Bass Setting

  LPF for LFE       ◄ 100Hz        ▶
  SW Mode             LFE+Main
```
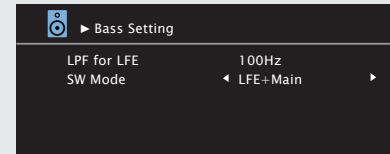
2 **Use ◁ ▷ to select the frequency.**

LPF for LFE Set LFE signal playback range.

• **80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz**

3 **Use △▽ to select "SW Mode", and use ◁ ▷ to select a detailed setting.**

```
  ▶ Bass Setting

  LPF for LFE          100Hz
  SW Mode           ◄ LFE+Main      ▶
```

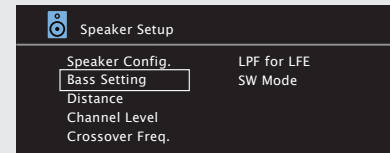**SW Mode** Select low range signals to be reproduced by subwoofer.

• **LFE** : The low range signal of the channel set to "Small" speaker size is added to the LFE signal output from the subwoofer.
• **LFE+Main** : The low range signal of all channels is added to the LFE signal output from the subwoofer.

✎
• "SW Mode" can be set when "Speaker Config." – "Subwoofer" (☞page 5) is set to "Yes".
• Play music or a movie source and select the mode offering the strongest bass.
• Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer.

NOTE

If "Front" and "Center" for "Speaker Config." are set to "Large", and "SW Mode" is set to "LPF for LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode.
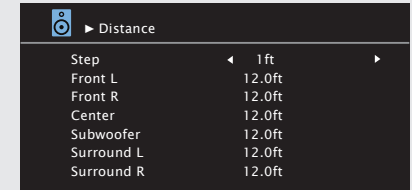
4 **Press ENTER to enter the setting.**

```
  Speaker Setup

  Speaker Config.      LPF for LFE
  Bass Setting         SW Mode
  Distance
  Channel Level
  Crossover Freq.
```

1 **Use △▽ to select "Distance", and then press ENTER.**

```
  Speaker Setup

  Speaker Config.      Step
  Bass Setting         Front L/R
  Distance             Center
  Channel Level        Subwoofer
  Crossover Freq.      Surround L/R

  ENTER Enter        BACK Return
```

```
  ▶ Distance

  Step           ◄  1ft          ▶
  Front L            12.0ft
  Front R            12.0ft
  Center             12.0ft
  Subwoofer          12.0ft
  Surround L         12.0ft
  Surround R         12.0ft
```

2 **Use ◁ ▷ to change the step (minimum variable distance).**

1ft : For changing in 1-foot steps.
0.1ft : For changing in 0.1-foot steps.

Distance (Cont.)

Channel Level

3 Use △▽ to select a speaker, and use ◁ ▷ to select distance.

Front L / Front R / Center / Subwoofer / Surround L / Surround R

Select the speaker.

• **0.0ft – 60.0ft** : Set the distance.

✎

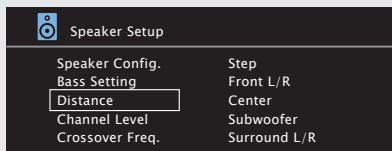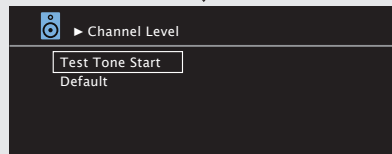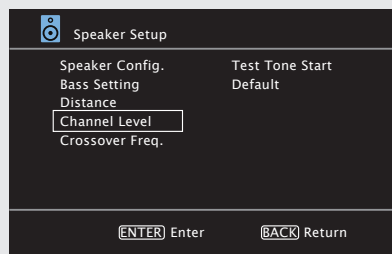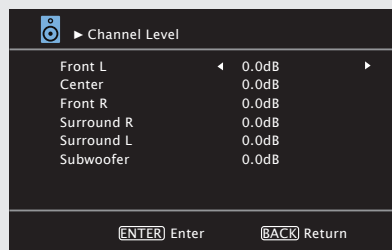• The speakers that can be selected differ depending on the "Speaker Config." (☞page 5) settings.
• Default settings :
  Front L / Front R / Center / Subwoofer : 12.0 ft
  Surround L / Surround R : 10.0 ft
• Set the difference in the distance between the speakers to less than 20 ft.

NOTE

Speakers set to "None" in "Speaker Config." (☞page 5) are not displayed.

4 Press **ENTER** to enter the setting.

```
🔊  Speaker Setup

    Speaker Config.      Step
    Bass Setting         Front L/R
    Distance             Center
    Channel Level        Subwoofer
    Crossover Freq.      Surround L/R
```

1 Use △▽ to select "Channel Level", and then press **ENTER**.

```
🔊  Speaker Setup

    Speaker Config.      Test Tone Start
    Bass Setting         Default
    Distance
    Channel Level
    Crossover Freq.



        ENTER Enter        BACK Return
```

⬇

```
🔊  ► Channel Level

    Test Tone Start
    Default
```

2 Press **ENTER**.
Output test tone.

```
🔊  ► Channel Level

    Front L        ◄  0.0dB   ►
    Center            0.0dB
    Front R           0.0dB
    Surround R        0.0dB
    Surround L        0.0dB
    Subwoofer         0.0dB


        ENTER Enter        BACK Return
```

3 Use △▽ to select a speaker, and use ◁ ▷ to adjust the sound volume of each speaker to be equal.

Front L / Center / Front R / Surround R / Surround L / Subwoofer

Select the speaker.

• **–12.0dB – +12.0dB (0.0dB)** : Adjust the volume.

✎

• When ◁ is pressed while the subwoofer volume is set to "–12 dB", the "Subwoofer" setting switches to "OFF".
• When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see ☞ page 25 "Adjusting the volume of the speakers".
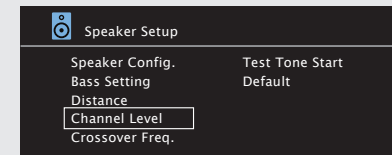
NOTE

• Speakers set to "None" in the "Speaker Config." (☞page 5) settings are not displayed.
• When a headphones jack is inserted in the PHONES jack of this unit, the "Channel Level" is not displayed.

4 Press **ENTER** to enter the setting.

```
🔊  ► Channel Level

    Test Tone Start
    Default
```
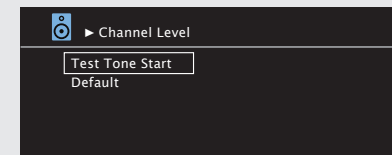
Default The "Channel Level" settings are returned to the default settings.

• **Yes** : Reset to the defaults.
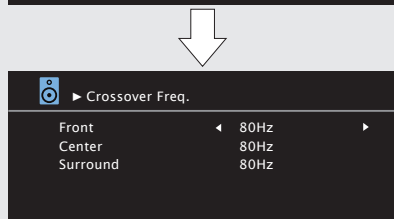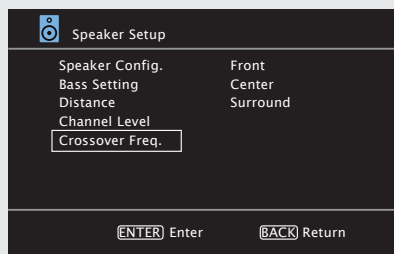• **No** : Do not reset to the defaults.

5 Press **BACK**.

```
🔊  Speaker Setup

    Speaker Config.      Test Tone Start
    Bass Setting         Default
    Distance
    Channel Level
    Crossover Freq.
```

Crossover Freq.

Default settings are underlined.

1 Use △▽ to select "Crossover Freq.", and then press ENTER.

> **Speaker Setup**
> Speaker Config.   Front
> Bass Setting   Center
> Distance   Surround
> Channel Level
> [Crossover Freq.]
>
> ENTER Enter   BACK Return

⬇

> ► Crossover Freq.
>
> Front   ◄   80Hz   ►
> Center   80Hz
> Surround   80Hz

2 Use △▽ to select a speaker, and use ◁ ▷ to select the frequency.
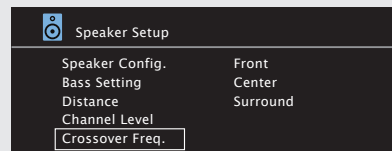
Front / Center / Surround

Specify crossover frequency for each speaker.

• **40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz** : Set the crossover frequency.

🖉
• "Crossover Freq." can be set when the "Bass Setting" – "SW Mode" (☞page 6) setting is "LFE+Main", or when you have a speaker that is set to "Small".
• Always set the crossover frequency to "80Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.
• For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
• The "SW Mode" setting (☞page 6) determines which speakers can be set.
  • When "LPF for LFE" is selected, speakers set to "Small" at "Speaker Config." can be set. If the speakers are set to "Large", "Full Band" is displayed and the setting cannot be made.
  • If set to "LFE+Main", this setting can be made regardless of the speaker size.

3 Press ENTER to enter the setting.

> **Speaker Setup**
> Speaker Config.   Front
> Bass Setting   Center
> Distance   Surround
> Channel Level
> [Crossover Freq.]

4 Press SETUP.
The menu display disappears.

Playing a Blu-ray Disc player

This section explains the basic operations for surround playback using a Blu-ray Disc player connected to this unit.
For details, see the included CD-ROM (Owner's manual).

**1** Press **Blu-ray** to switch an input source for a player used for playback.

2 Play the component connected to this unit.
Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.

3 Adjust the sound volume.
VOLUME ▲/▼ ···················· Volume up /down
MUTE ··· Muting

4 Press **SURROUND ◄** or **SURROUND ►** to select a listening mode.
The listening mode is displayed on the display or TV screen.

• Each time **SURROUND ◄** or **SURROUND ►** is pressed, the listening mode is switched. Select the desired listening mode.
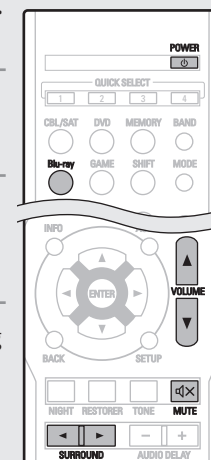
When power is switched to standby

Press **POWER** ⏻.

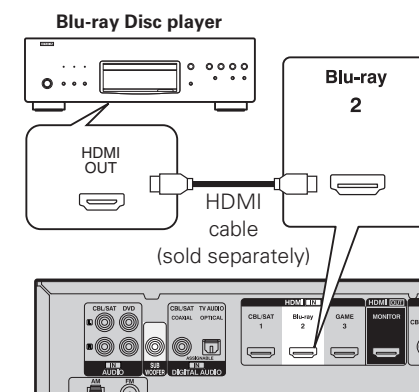❏ **Power indicator status in standby mode**
  • Power on : Green
  • Normal standby : Off
  • Standby when "Standby Pass" (☞ page 33) is not set to "OFF" : Red

NOTE
During power standby, a minimal amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.

【Connecting a Blu-ray Disc player】
Blu-ray Disc player

HDMI OUT

HDMI cable
(sold separately)

Blu-ray
2

Other operations

See the following items on the included CD-ROM (Owner's manual).

❏ **Playing a Blu-ray Disc player/DVD player**   ❏ **Convenient functions**

❏ **Playing a portable player**   ❏ **How to make detailed settings**

❏ **Tuning in radio stations**

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