

# Playback in ZONE2/ZONE3 (Separate room)

- You can operate this unit so as to enjoy audio in a room (ZONE2, ZONE3) other than the MAIN ZONE (room where the unit is located).
- You can simultaneously play back the same source in both the MAIN ZONE, ZONE2 and ZONE3. You can also play back separate sources in the MAIN ZONE, ZONE2 and ZONE3.

 The source selected for ZONE2 is also output from the recording output connectors.

## Audio output


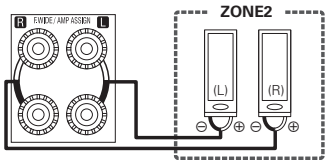
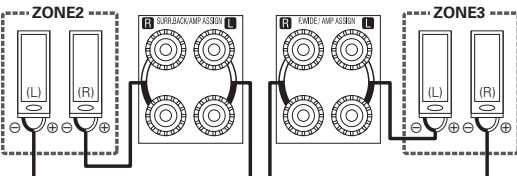
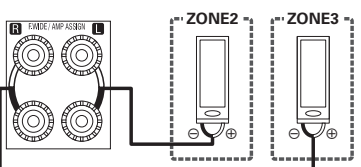
There are two methods to do this, as described below. Choose one of the methods.


- Zone playback by speaker output
- Zone playback by audio output (PRE OUT)  
Use an external amplifier.

### ① Zone playback by speaker output

The ZONE2 and ZONE3 audio signals are output from this unit's SURR.BACK/AMP ASSIGN, F.HEIGHT/AMP ASSIGN or F.WIDE/AMP ASSIGN speaker terminals using the amplifier assignment function.

#### □ Connecting and setting the speakers

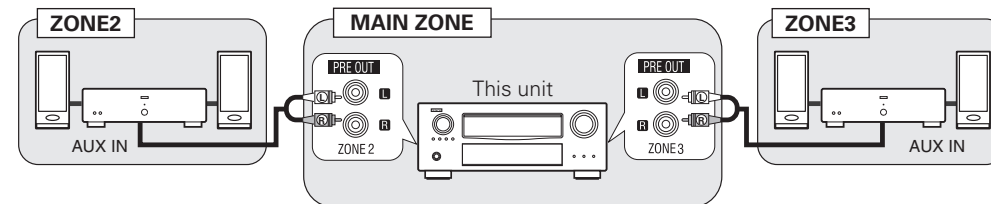
	"Assign Mode" setting (  page 95) and audio signals output	Connecting the speakers
ZONE2	<b>ZONE2</b> Output signal : Stereo (L / R)	
ZONE2 and ZONE3	<b>ZONE2/3</b> Output signal : Stereo (L / R)	
ZONE2 and ZONE3	<b>ZONE2/3-MONO</b> Output signal : Monaural	

 When "Assign Mode" is set to "ZONE2" or "ZONE2/3-MONO", you can change the AMP ASSIGN speaker terminals for ZONE2 and ZONE3 in "Amp Assign" – "Assign Sp." ( page 95).

### ② Zone playback by audio output (PRE OUT)

#### □ Audio connections (ZONE2, ZONE3)

The audio signals of this unit's ZONE2 and ZONE3 audio output terminals are output to the ZONE2 and ZONE3 amplifiers and played on these amplifiers.



 We recommend using high quality pin-plug cables for audio connections in order to prevent noise.

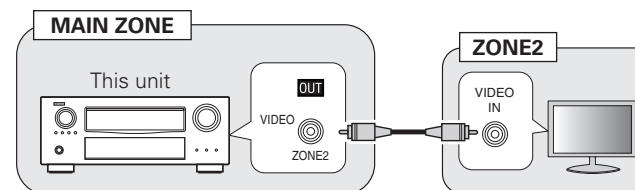
#### NOTE

- When the input source to which the digital input connectors (OPTICAL/COAXIAL) are assigned is selected in ZONE2 or ZONE3, playback is only possible if the digital signal being input is in PCM (2-channel) format.
- It is not possible to play the digital audio signals input from the HDMI or DENON LINK connectors in ZONE2 and ZONE3. Use analog connections for ZONE2 or ZONE3 playback.
- When certain digital signals are being input, noise may be output from the ZONE2 and ZONE3 audio output connectors.

## Video output

### Video Connection

The video signals of this unit's ZONE2 video output terminal are played by the ZONE2 TV.



#### NOTE

It is not possible to output video signals input to the HDMI or component terminals to ZONE2.

## Playback

**1** Press **ZONE SELECT** to switch the zone mode to **[Z2]** (ZONE2) or **[Z3]** (ZONE3).

**2** Press **AMP**.

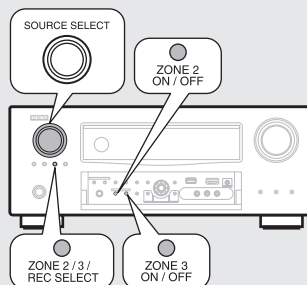
**3** Press **ZONE/DEVICE ON** to turn on the ZONE2 or ZONE3 power. The **[Z2]** or **[Z3]** indicator on the display lights.

- Also press input source select button when in standby mode, the power turns on.
- When **ZONE/DEVICE OFF** is pressed, ZONE2 or ZONE3 turns off.
- Power in ZONE2 or ZONE3 can be turned on or off by pressing **ZONE2 ON/OFF** or **ZONE3 ON/OFF** on the main unit.

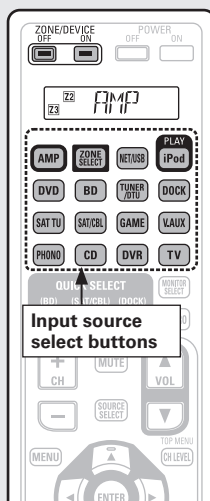
**4** Press the input source select button.

The audio signal of the selected source is output to ZONE2 or ZONE3.

- Turn **SOURCE SELECT** after pressing **ZONE2/3 / REC SELECT** on the main unit to select an input source.



When power for both MAIN ZONE and ZONE2 (ZONE3) is set to ON, power of the MAIN ZONE only can be turned off. Select **[M]** (MAIN ZONE) in step 1 then press **ZONE/DEVICE OFF**.



## Adjusting the volume

Use **VOL ▲▼** to adjust the volume.

**[Adjustable range]** --- -80dB - -40dB - 18dB

(When the "Volume Display" (page 104) setting is "Relative")

**[Adjustable range]** 0 - 41 - 99

(When the "Volume Display" (page 104) setting is "Absolute")

- At time of purchase, "Volume Limit" (page 103) is set to "-10dB (71)".



Turn **MASTER VOLUME** after pressing **ZONE2/3 / REC SELECT** on the main unit to adjust the sound volume.

## Turning off the sound temporarily

Press **MUTE**.

The sound is reduced to the level set at "Mute Level" (page 103) in the menu.

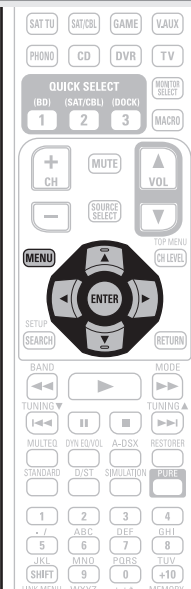
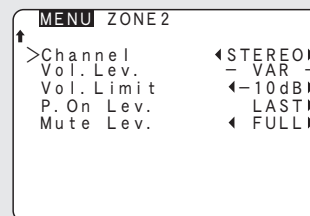
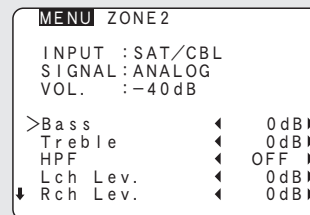
- To cancel, either adjust the volume or press **MUTE** again.
- The setting is canceled when the zone's power is turned off.

## Menu Operation

The settings related to tone adjustment and volume can be made.

**1** In the zone mode for which you want to operate, press **MENU**.

The ZONE2 or ZONE3 menu is displayed on the ZONE2 TV.



**2** Press **▲▼◀▶** to select the menu to be set or operated.

**3** Press **MENU** to enter the setting. The on-screen display disappears.



- For ZONE2, the "Zone Setup" can be made while watching the on-screen display. Also, when ZONE3 is operated, the on-screen display appears on the ZONE2 monitor, so operation can be performed watching this on-screen display.
- You can adjust these setting in "Zone Setup" (page 103) in the menu.

## Quick select function

It is also possible to save three settings for ZONE2 or ZONE3.

### □ Saving the settings

#### 1 Set the items below to the settings you want to save.

- ① Input source (page 73)
- ② Volume (page 73)

#### 2 Press ZONE SELECT to switch the zone mode to Z2 (ZONE2) or Z3 (ZONE3).

#### 3 In the zone mode for which you want to operate, press and hold the desired QUICK SELECT until “Memory” appears on the on-screen display or display. The current settings will be memorized.



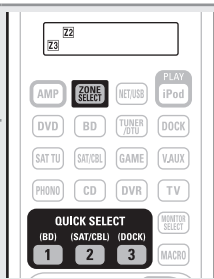
[Quick select defaults]

	Input source	Volume
Z2/Z3 QUICK SELECT 1	BD	-40dB
Z2/Z3 QUICK SELECT 2	SAT/CBL	-40dB
Z2/Z3 QUICK SELECT 3	DOCK	-40dB

### □ Recalling the settings

#### 1 Press ZONE SELECT to switch the zone mode to Z2 (ZONE2) or Z3 (ZONE3).

#### 2 Press QUICK SELECT at which the settings you want to call out are saved.



### Naming quick select settings

See “Quick Select Name” (page 105).

## Sleep timer function

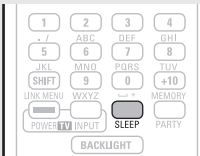
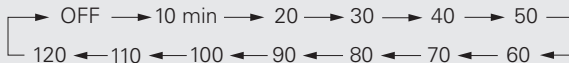
This is useful when you want to sleep while listening in ZONE2 or ZONE3.

#### 1 Press ZONE SELECT to switch the zone mode to Z2 (ZONE2) or Z3 (ZONE3).

#### 2 Press SLEEP and display the time you want to set.

The SLEEP indicator on the display lights.

- The time switches as shown below each time SLEEP is pressed.



### To confirm the countdown time before putting the unit to sleep

Press SLEEP.

“Z2 Sleep : \* min” or “Z3 Sleep : \* min” appears on the display.

\* Countdown time

### To cancel the sleep timer

Press SLEEP to set “OFF”.

The SLEEP indicator on the display turns off.



The sleep timer is also canceled when this unit is set to the standby mode or the ZONE2 or ZONE3 power is turned off.

# How to make detailed settings

## Menu map

For menu operation, connect a TV to this unit and display the menu on the TV screen. For menu operations, see the following page.

	Setting items	Detailed items	Description	Page
	<b>INFORMATION</b>	<b>Status</b>	Shows information about current settings.	107
		<b>Audio Input Signal</b>	Shows information about audio input signals.	107
		<b>HDMI Information</b>	Displays the HDMI input/output signals and HDMI monitor information.	107
		<b>Auto Surround Mode</b>	Displays the settings stored for the auto surround mode.	107
		<b>Quick Select</b>	Displays the settings stored for the Quick Select function.	107
		<b>Preset Channel</b>	Shows information about tuner or network preset channels.	107
	<b>SOURCE SELECT</b> Displayed items of the "SOURCE SELECT" menu differs, depending on the selected input source.	<b>Play</b>	Displays the playback screen of each input source.	80
		<b>Auto Preset</b>	Uses the auto preset function to program radio stations.	81
		<b>Preset Skip</b>	Sets the preset memories that you do not want to display when tuning.	81
		<b>Parental Lock</b>	Sets the Parental Lock.	81
		<b>Antenna Aiming</b>	Adjusts the SIRIUS reception sensitivity.	81
		<b>Preset Name</b>	Assigns name to a preset memory.	81
		<b>Input Assign</b>	Changes input connector assignment.	82
		<b>Video</b>	Makes the video settings.	83
		<b>Input Mode</b>	Sets the audio input mode and decode mode.	84
		<b>Rename</b>	Changes the display name for this source.	85
		<b>Source Level</b>	Adjusts the playback level of the audio input.	85
		<b>Playback Mode</b>	Makes settings for iPod, USB memory device or network source playback.	85
		<b>Still Picture</b>	Makes settings for still picture playback.	85
		<b>SURROUND MODE</b>	Selects a listening mode.	50
	<b>AUDIO/VIDEO ADJUST</b>	<b>Audio Adjust</b>	Adjusts various audio parameters.	86
		<b>Picture Adjust</b>	Adjusts the picture quality.	92
	<b>AUTO SETUP</b>	<b>Audyssey Auto Setup</b>	Makes the optimum settings for the speakers being used automatically.	7
		<b>Parameter Check</b>	Checks Audyssey® Auto Setup measurement results. This item is only displayed after Audyssey Auto Setup procedure has been performed.	12
	<b>MANUAL SETUP</b>	<b>Speaker Setup</b>	Sets the speaker size and distance, the channel level, etc.	93
		<b>HDMI Setup</b>	Makes settings for HDMI video/audio output.	98
		<b>Audio Setup</b>	Makes settings for audio playback.	99
		<b>Network Setup</b>	Makes network settings.	101
		<b>Zone Setup</b>	Makes settings for audio playback in a multi-zone (ZONE2/ZONE3) system.	103
		<b>Option Setup</b>	Makes various other settings.	104
		<b>Language</b>	Set the language for display the menu on the TV screen.	106

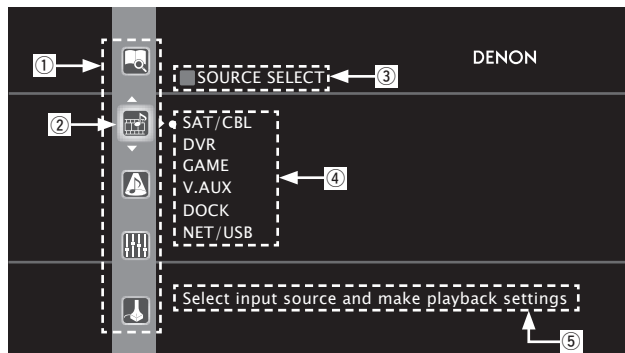
**Items that only need to be set once**

Set these for example upon purchase. Once these items are set, there is no need to set them again unless the speaker layout or the connected speakers have been changed.

# Examples of menu screen displays

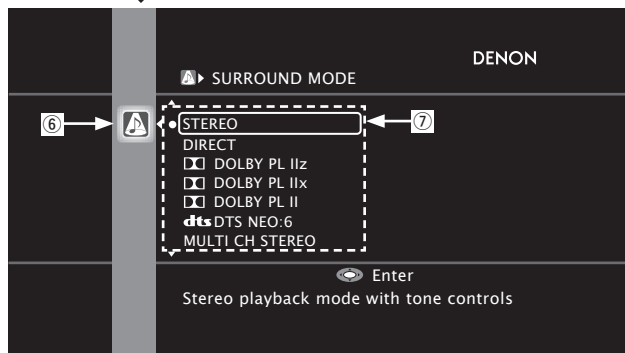
Typical examples are described below.

## [Example 1] Menu selection screen (Top menu)



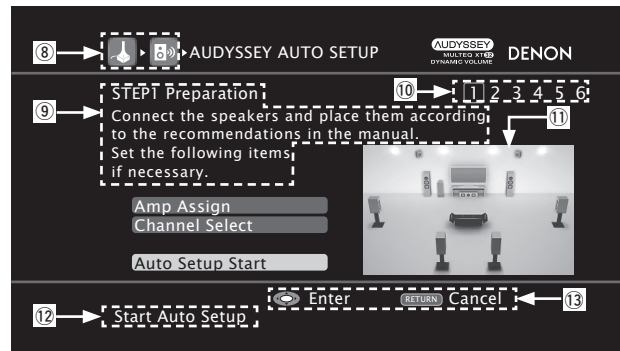
- ① List of GUI menu setup icons
- ② Currently selected setup icon
- ③ Currently selected setup item
- ④ List of currently selected setup subcategory
- ⑤ Guide text for the currently selected setup item

Press ▽ to select and then press ▷.  
(Or press ENTER.)



- ⑥ Selected setup icon
- ⑦ Options of the selected setup item

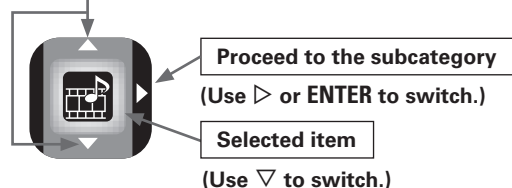
## [Example 2] Audyssey® Auto Setup screen (with illustration)



- ⑧ History icon
- ⑨ Operation guidance text
- ⑩ Operation step indicators
- ⑪ Illustration
- ⑫ Guide text for the currently selected setup item
- ⑬ Operation button guidance

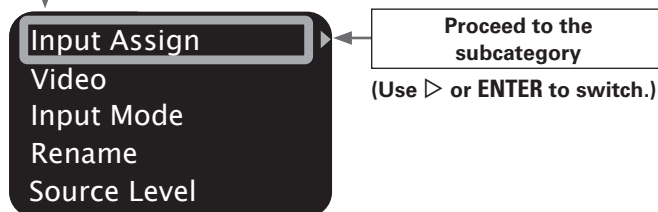
### Icon

Switch the selected item (Use △ to switch.)



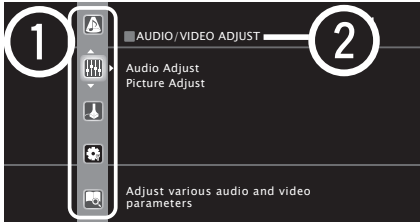

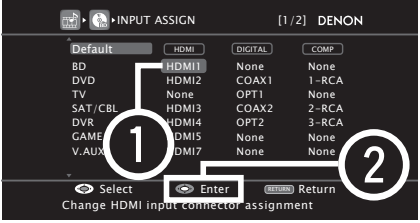
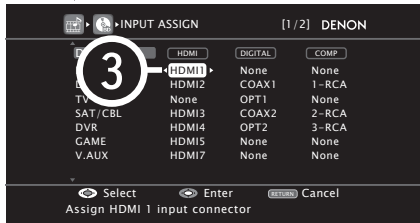


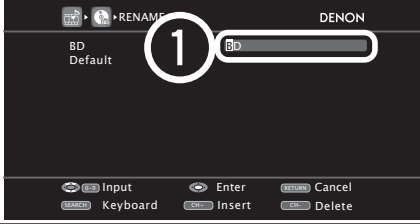


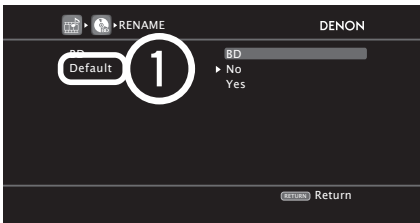


### List

- Selected item
- Switch the selected item using △▽.



## Examples of menu and front display

Below we describe typical examples of displays on the TV screen and on the set's display window.

	Menu display	Front display	Description
<b>Top menu display</b>			<p>① The menu items are displayed here.</p> <p>② The selected line is displayed here.</p> <p>The currently selected item is displayed on the display.</p> <p>Use <math>\Delta \nabla</math> to move to the item you want to set.</p>
<b>Display when changing settings</b>	 <p>Press <b>ENTER</b>.</p> 	 <p>Press <b>ENTER</b>.</p> 	<p>① Use <math>\Delta \nabla \triangleleft \triangleright</math> to move to the item you want to set.</p> <p>② Press <b>ENTER</b> to set to the mode in which the setting can be made.</p> <p>③ <math>\triangleleft</math> and <math>\triangleright</math> is displayed at the sides of item whose setting can be changed. Use <math>\triangleleft \triangleright</math> to change to the desired setting.</p>
<b>Display when inputting characters</b>			<p>① When <math>\triangleleft \triangleright</math> is pressed, the cursor moves to the left or right. When <math>\Delta \nabla</math> is pressed at the position where you want to input the character, the character is input.</p> <p></p> <p>For inputting characters on a keyboard screen or with the number buttons on the remote control unit, see page 78.</p>
<b>Display when resetting</b>		 <p>Press <b>ENTER</b>.</p> 	<p>① Press <math>\nabla</math> to select "Default", then press <math>\triangleright</math> to set.</p> <p>② Press <math>\nabla</math> to select "Yes", then press <b>ENTER</b>.</p>

# Inputting characters

You can change the names as desired using the “Preset Name” (page 81), “Rename” (page 85), “Rhapsody Account” (page 103), “Napster Account” (page 103), “Zone Rename” (page 105), “Quick Select Name” (page 105) and character input for the network functions.

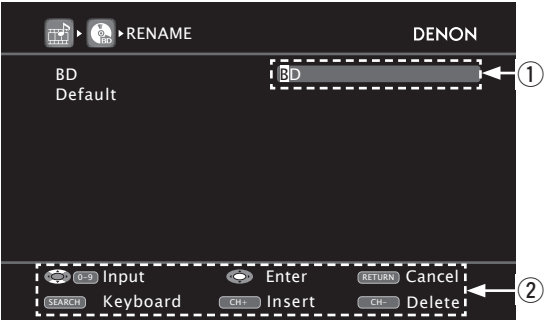
For inputting characters, there are three methods, as shown below.

## Method for inputting characters

Method	Operations
Using the number buttons (Normal screen)	<ul style="list-style-type: none"> <li>Operating with the remote control unit.</li> <li>Multiple characters are assigned to a button, and each time the button is pressed, a character is switched.</li> </ul>
Using the cursor buttons (Normal screen)	<ul style="list-style-type: none"> <li>Operating with the remote control unit or the main unit.</li> <li>Use <math>\triangle</math> <math>\nabla</math> <math>\triangleleft</math> <math>\triangleright</math> and <b>ENTER</b> to input characters.</li> </ul>
Using the keyboard screen	<ul style="list-style-type: none"> <li>Operating with the remote control unit.</li> <li>Select a character on the TV screen to input characters.</li> </ul>

## Normal screen

### Display of a normal input screen



- ① Character input section
- ② Guide for operation buttons

## Using the number buttons

### 1 Display the screen for inputting characters (page 75 “Menu map”).

### 2 Place the cursor at the character to be changed with $\triangleleft$ $\triangleright$ and press the number button (0 – 9) until the desired character is displayed.

- The types of characters that can be input are as shown below.

1 1 . @ - _ / : ~	6 M N O m n o 6
2 A B C a b c 2	7 P Q R S p q r s 7
3 D E F d e f 3	8 T U V t u v 8
4 G H I g h i 4	9 W X Y Z w x y z 9
5 J K L j k l 5	0 0 (Space) ! " # \$ % & ' ( ) * + , ; < = > ? [ \ ] ^ _ {   }

- When you press **SHIFT** while you type in, you can change uppercase characters to lowercase and vice versa.
- For entering the characters assigned to one number button continuously, press  $\triangleright$  to move the cursor to the right after entering a character then enter the next character.
- For entering characters assigned to separate buttons, press the number button continuously. The cursor automatically moves to the next position, and the entered character is registered.

### 3 Repeat step 2 to change the name then press ENTER to register it.

**Example:** For changing the input source from “DVD” to “DENON”

- Place the cursor at “V”. **D**V**D**
- Press **3** twice. **D**E**D**  
“V” changes to “E”.
- Press **6** twice. **D**E**N**  
“E” is automatically registered, and “D” changes to “N”.
- Press  $\triangleright$ . **D**E**N■**  
“N” is registered.
- Press **6** three times. **D**E**N**O****  
Input “O”.
- Press  $\triangleright$ . **D**E**N**O**■**  
“O” is registered.
- Press **6** twice. **D**E**N**O****N****  
Input “N”.
- Press **ENTER** to register the input source name.

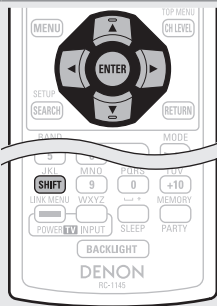


## Using the cursor buttons

- 1 Display the screen for inputting characters (☞ page 75 “Menu map”).
- 2 Use ◀ ▶ to set the cursor to the character you want to change.
- 3 Use △ ▽ to change the character, then press **ENTER**.
  - The types of characters that can be input are as shown below.

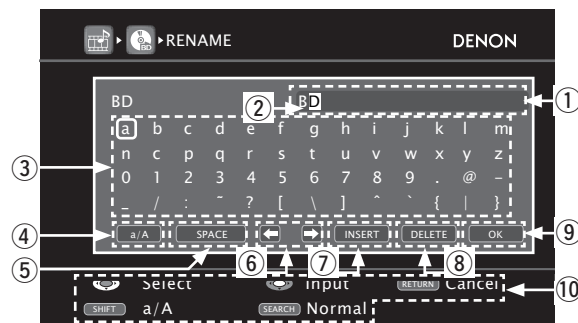
**[Upper case characters]**  
 ABCDEFGHIJKLMNOPQRSTUVWXYZ  
**[Lower case characters]**  
 abcdefghijklmnopqrstuvwxyz  
**[Symbols]** ! " # \$ % & ' ( ) \* + , - . / : ; < = > ? @ [ \ ] ^ \_ ` { | } ~  
**[Numbers]** 0 1 2 3 4 5 6 7 8 9 (Space)

  - When you press **SHIFT** while you type in, you can change uppercase characters to lowercase and vice versa.
- 4 Repeat steps 2 and 3 to change the name then press **ENTER** to register it.



## Keyboard screen

## □ Display of a keyboard input screen

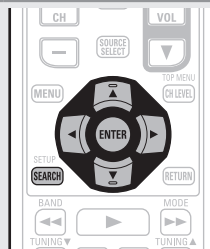


- 1 Character input section
- 2 Cursor
- 3 Keyboard section
- 4 Uppercase and lowercase switch key
- 5 Space key
- 6 Cursor keys
- 7 Insert key
- 8 Delete key
- 9 OK key
- 10 Guide for operation buttons

- 1 Display the screen for inputting characters (☞ page 75 “Menu map”).
- 2 Press **SEARCH** while a normal screen is displayed.  
A keyboard screen is displayed.
- 3 Select a character to be changed.
  - 1 Press △ ▽ ◀ ▶ to select ◀ or ▶.
  - 2 Press **ENTER** to place the cursor at the character to be changed.  
Each time **ENTER** is pressed, the cursor moves by one character.
- 4 Select a character to be input with △ ▽ ◀ ▶ then press **ENTER**.
  - The types of characters that can be input are as shown below.

**[Upper case characters/Numbers/Symbols]**  
 ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 0123456789  
 ! " # \$ % & ' ( ) \* + , ; < = >  
**[Lower case characters/Numbers/Symbols]**  
 abcdefghijklmnopqrstuvwxyz  
 0123456789  
 . @ - \_ / : ; ~ ? [ \ ] ^ ` { | }

  - When you press **SHIFT** while you type in, you can change uppercase characters to lowercase and vice versa.
- 5 Repeat steps 3 and 4 to change the name.
- 6 Use △ ▽ ◀ ▶ to select **OK**, then press **ENTER**.







# SOURCE SELECT



Perform settings related to input source playback.

- You do not have to change the settings to use the unit. Make settings when needed.

## Menu operation

**1** Press **ZONE SELECT** to switch the zone mode to **[M]** (MAIN ZONE).

The **[M]** indicator lights.

**2** Press **AMP** to set the remote control unit to AMP-operation mode.

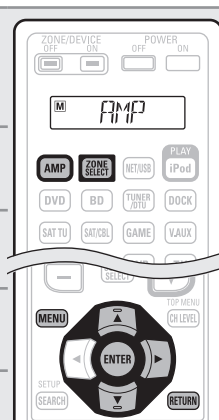
**3** Press **MENU**.

The menu is displayed on the TV screen.

**4** Use  $\Delta$   $\nabla$  to select the menu to be set or operated.

**5** Press **ENTER** or  $\triangleright$  to enter the setting.

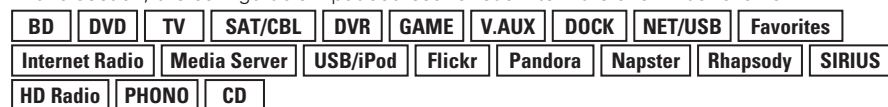
- To return to the previous item, press **RETURN**.
- Exiting the Menu, press **MENU** while the menu is displayed. The menu display disappears.



## Important information

### About the display of input sources

In this section, the configurable input sources for each item are shown as follows.



### NOTE

Input sources that have been set to "Delete" at "Source Delete" (page 104) cannot be selected.

## Items that can be set with the "SOURCE SELECT" procedure



## Play

Displays the playback screen of each input source.



## Auto Preset

Use the auto preset function to program radio stations.

Setting items	Setting details
<b>Start</b> Start the auto preset process. <b>HD Radio</b>	If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.

## Preset Skip

Default settings are underlined.

Set preset channel to be skipped when selecting.

Setting items	Setting details
<b>A – G</b> Set the preset channels you do not want to display. You can set by preset memory block (A to G) or by preset channel (1 to 8). <b>SIRIUS</b> <b>HD Radio</b>	<b>All</b> : Skip all channels of the selected preset memory blocks. <b>1 – 8</b> : Set by individual preset channels in the currently selected preset memory block. • <b>ON</b> : Display the selected preset channel. • <b>Skip</b> : Do not display the selected preset channel. If you set the selected preset memory blocks to “Skip”, you can skip by blocks (A – G).

## Parental Lock

Default settings are underlined.

For any channel, set the radio reception limits.

Setting items	Setting details
<b>Lock Setting</b> Set the channel radio reception limits. <b>SIRIUS</b>	<ol style="list-style-type: none"> <li>Press <math>\Delta \nabla</math> to select “Lock Setting”, and then press <math>\triangleright</math> or <b>ENTER</b>.</li> <li>Pressing <math>\Delta \nabla \triangleleft \triangleright</math> or <b>0 – 9</b>, input the password (4 digits number) and press <b>ENTER</b>.</li> <li>Select channel by pressing <math>\Delta \nabla</math>, and set the lock by pressing <math>\triangleleft \triangleright</math>.</li> </ol> <p><b>Unlock</b> : Do not lock selected channel(s).  <b>Lock</b> : Lock selected channel(s). When a Parental Locked channel is tuned, “Enter Lock Code” is displayed, then input the password.</p> <ul style="list-style-type: none"> <li>The default password is “0000”.</li> <li>If the password is wrong, “Lock Code is incorrect” is displayed. Input the correct password.</li> <li>While listening to the channel being played, you can also set parental lock (see page 35).</li> </ul>

Setting items	Setting details
<b>Edit Lock Code</b> Change the password. <b>SIRIUS</b>	<ol style="list-style-type: none"> <li>Press <math>\Delta \nabla</math> to select “Edit Lock Code”, and then press <math>\triangleright</math> or <b>ENTER</b>.</li> <li>Input current lock code (4 digits) using <math>\Delta \nabla \triangleleft \triangleright</math> or <b>0 – 9</b>, and press <b>ENTER</b>.</li> <li>Input new lock code (4 digits) using <math>\Delta \nabla \triangleleft \triangleright</math> or <b>0 – 9</b>, and press <b>ENTER</b>.</li> <li>Input new lock code (4 digits) again using <math>\Delta \nabla \triangleleft \triangleright</math> or <b>0 – 9</b>, and press <b>ENTER</b>.</li> <li>Press <math>\Delta \nabla</math> to select “Execute”, and then press <b>ENTER</b>.              If the correct password is input, “Completed” is displayed, and the new password is modified.</li> </ol> <ul style="list-style-type: none"> <li>If the old password is incorrectly input, “Current Lock Code is incorrect” is displayed, and proceed again from step 1.</li> <li>If the password input is 3 digits or less, “Enter 4 digits number” is displayed, and input again with a 4 digit password.</li> <li>If the new password is not correctly input, “New Lock Codes do not Match” is displayed and the password does not change.</li> </ul>

## Antenna Aiming

Install the antenna with radio reception sensitivity set to maximum.

Setting items	Setting details										
<b>Satellite</b> Indicate satellite signal strength. <b>SIRIUS</b>	<table border="1"> <thead> <tr> <th>Display</th><th>Condition</th></tr> </thead> <tbody> <tr> <td>.....</td><td>Signal strength is excellent</td></tr> <tr> <td>.....</td><td>Signal strength is good</td></tr> <tr> <td>.....</td><td>Signal strength is weak</td></tr> <tr> <td>.....</td><td>No signal</td></tr> </tbody> </table>	Display	Condition	.....	Signal strength is excellent	.....	Signal strength is good	.....	Signal strength is weak	.....	No signal
Display	Condition										
.....	Signal strength is excellent										
.....	Signal strength is good										
.....	Signal strength is weak										
.....	No signal										
<b>Terrestrial</b> Indicate terrestrial signal strength. <b>SIRIUS</b>											

## Preset Name

Assign name to a preset memory.

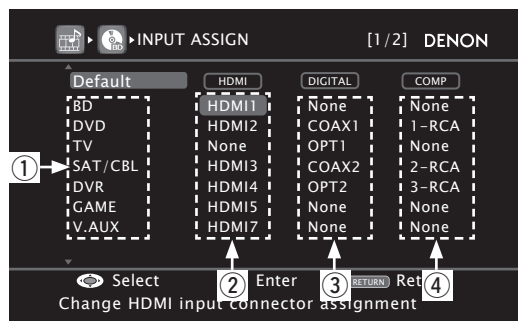
Setting items	Setting details
<b>A1 – G8</b> Select the preset channel. <b>HD Radio</b>	<ul style="list-style-type: none"> <li>Up to eight characters can be input.</li> <li>For character input, see page 78.</li> </ul>
<b>Default</b> The changed preset name is returned to the default setting.	<b>Yes</b> : Reset to the defaults. <b>No</b> : Do not reset to the defaults.



## Input Assign

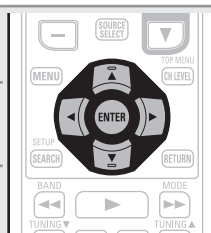
### Examples of input assign menu screen displays

This screen appears when the “SOURCE SELECT” – “each input source” – “Input Assign” menu is selected. Use the “Input Assign” menu to change the ② HDMI input connectors, ③ Digital input connectors, and ④ component input connectors that are assigned to the ① input sources in default settings.



### Input assignments menu operations

- 1 Use  $\Delta \nabla \triangleleft \triangleright$  to move the highlight to the item you want to set.
- 2 Press **ENTER**, then use  $\triangleleft \triangleright$  to select the input connector to be assigned.
- 3 Press **ENTER** to register the setting.



#### NOTE

If all “HDMI”, “DIGITAL” and “COMP” assignment of the Game source are set to “None”, Game source cannot be selected with the input source selection.

#### Setting items

##### HDMI

Set this to change the HDMI input connectors assigned to the input sources.

BD	DVD	TV
SAT/CBL	DVR	
GAME	V.AUX	DOCK

#### Setting details

##### HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4 / HDMI 5 / HDMI 6 / HDMI 7

**None** : Do not assign an HDMI input connector to the selected input source.

- At time of purchase, the settings of the different input sources are as shown below.

Input source	BD	DVD	TV	SAT/CBL	DVR	GAME	V.AUX	DOCK
Default setting	HDMI 1	HDMI 2	None	HDMI 3	HDMI 4	HDMI 5	HDMI 7	HDMI 6



- An input source to which an HDMI input connector cannot be assigned is displayed as “— —”.
- To play the video signal assigned at “HDMI” combined with the audio signal assigned at “Input Assign” – “Digital”, select “Digital” at “Input Mode” (page 84).
- The audio signals input from the analog and digital connectors are not output to the monitor.
- When a control dock for iPod is connected, signals cannot be assigned to the HDMI connectors.
- When “HDMI Control” – “Control” (page 99) is set to “ON”, HDMI input connector cannot be assigned to “TV”.

##### DIGITAL

Set this to change the digital input connectors assigned to the input sources.

BD	DVD	TV
SAT/CBL	DVR	
GAME	V.AUX	DOCK
CD	SIRIUS	

##### COAX (coaxial) 1 – 2 / OPT (optical) 1 – 2 / D.LINK (DENON LINK) \*

**None** : Do not assign a digital input connector to the selected input source.

\* “D.LINK” is set when this unit is connected by DENON LINK to a DENON Blu-ray disc / DVD player (page 25 “Component equipped with a DENON LINK connector”).



- For setting DENON LINK 4th, see page 29.
- At time of purchase, the settings of the different input sources are as shown below.

Input source	BD	DVD	TV	SAT/CBL	DVR
Default setting	None	COAX 1	OPT 1	COAX 2	OPT 2

Input source	GAME	V.AUX	DOCK	CD	SIRIUS
Default setting	None	None	None	None	None



Setting items	Setting details																											
<b>COMP</b> (Component video) Set this to change the component video input connectors assigned to the input sources.	<b>1-RCA / 2-RCA / 3-RCA</b> <b>None</b> : Do not assign a component video input connector to the selected input source. <ul style="list-style-type: none"><li>At time of purchase, the settings of the different input sources are as shown below.</li></ul>																											
<table><tr><td>BD</td><td>DVD</td><td>TV</td></tr><tr><td>SAT/CBL</td><td>DVR</td><td></td></tr><tr><td>GAME</td><td>V.AUX</td><td>DOCK</td></tr></table>	BD	DVD	TV	SAT/CBL	DVR		GAME	V.AUX	DOCK	<table><tr><th>Input source</th><td>BD</td><td>DVD</td><td>TV</td><td>SAT/CBL</td><td>DVR</td><td>GAME</td><td>V.AUX</td><td>DOCK</td></tr><tr><th>Default setting</th><td>None</td><td>1-RCA</td><td>None</td><td>2-RCA</td><td>3-RCA</td><td>None</td><td>None</td><td>None</td></tr></table>	Input source	BD	DVD	TV	SAT/CBL	DVR	GAME	V.AUX	DOCK	Default setting	None	1-RCA	None	2-RCA	3-RCA	None	None	None
BD	DVD	TV																										
SAT/CBL	DVR																											
GAME	V.AUX	DOCK																										
Input source	BD	DVD	TV	SAT/CBL	DVR	GAME	V.AUX	DOCK																				
Default setting	None	1-RCA	None	2-RCA	3-RCA	None	None	None																				
	 <ul style="list-style-type: none"><li>An input source to which an component video input connector cannot be assigned is displayed as “— — —”.</li><li>When a control dock for iPod is connected, signals cannot be assigned to the component video connectors.</li></ul>																											
<b>Default</b> The “Input Assign” settings are returned to the default settings.	<b>Yes</b> : Reset to the defaults. <b>No</b> : Do not reset to the defaults.  If you select “Default” and press <b>ENTER</b> , the message “Return all settings to the default?” is displayed. Select “Yes” or “No”, and then press <b>ENTER</b> .																											




## Video

Default settings are underlined.

Set the source video.

\* “TV” or “GAME” can be set when “HDMI” (page 82) or “COMP” (page 83) has been assigned.

Setting items	Setting details
<b>Video Select</b> Video of another input source is played back combined with the playing audio.	<b>SOURCE</b> : Play the picture and sound of the input source. <b>BD / DVD / TV / SAT/CBL / DVR / GAME / V.AUX / DOCK</b> : Select video input source to view. This can be set for individual input sources. “TV” and “GAME” can be selected only when a component video is assigned as an input source. <div> <b>NOTE</b> <ul style="list-style-type: none"> <li>It is not possible to select HDMI input signals.</li> <li>Input sources for which “Delete” is selected at “Source Delete” (page 104) cannot be selected.</li> </ul> </div>

Setting items	Setting details
<b>Video Mode</b> Make settings for video processing. <div><div>BD</div><div>DVD</div><div>TV *</div></div> <div><div>SAT/CBL</div><div>DVR</div></div> <div><div>GAME *</div><div>V.AUX</div><div>DOCK</div></div>	<b>Auto</b> : Process video automatically based on the HDMI content information. <b>Game</b> : Always process video appropriate for game content. <b>Movie</b> : Process video normally.  <ul style="list-style-type: none"><li>• If “Video Mode” is set to “Auto”, the mode is switched according to the input contents.</li><li>• If a source is played in both MAIN ZONE (audio and video) and ZONE2 (audio only) modes in the same room, audio in MAIN ZONE and ZONE2 modes may sound out of synchronization, but this is not malfunction. In this case, setting to “Game” mode may improve audio synchronization.</li></ul>
<b>Video Convert</b> The input video signal is converted automatically in conjunction with the connected TV (page 15 “Converting input video signals for output (Video conversion function)”). <div><div>BD</div><div>DVD</div><div>TV *</div></div> <div><div>SAT/CBL</div><div>DVR</div></div> <div><div>GAME *</div><div>V.AUX</div><div>DOCK</div></div>	<b>ON</b> : The input video signal is converted. <b>OFF</b> : The input video signal is not converted.  <ul style="list-style-type: none"><li>• When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. In this case set “Video Convert” to “OFF”.</li><li>• When “Video Convert” is set to “OFF”, the video conversion function does not work. In this case, connect this unit and TV with the same type of cable.</li></ul>
<b>i/p Scaler</b> Convert the input source’s resolution to the resolution set at “Resolution”. <div><div>BD</div><div>DVD</div><div>TV *</div></div> <div><div>SAT/CBL</div><div>DVR</div></div> <div><div>GAME *</div><div>V.AUX</div><div>DOCK</div></div> <div><div>NET/USB</div></div>	<b>Analog</b> : Use i/p scaler function for analog video signal. <b>Analog &amp; HDMI</b> : Use i/p scaler function for analog and HDMI video signal. <b>HDMI</b> : Use i/p scaler function for HDMI video signal. <b>OFF</b> : Do not use i/p scaler function.  <ul style="list-style-type: none"><li>• “Analog &amp; HDMI” and “HDMI” can be set for input sources for which an HDMI input connector is assigned.</li><li>• Which items can be set depend on the input source assigned to each input connector.</li><li>• This function is not effective when the input signal is x.v.Color, 3D, sYCC 601 color, Adobe RGB color, Adobe YCC 601 color or computer resolution.</li></ul>



Setting items	Setting details
<b>Resolution</b> Set the output resolution. You can set "Resolution" separately for HDMI output of the analog video input and HDMI input. <div> <div>BD DVD TV *</div> <div>SAT/CBL DVR</div> <div>GAME * V.AUX DOCK</div> <div>NET/USB</div> </div>	<b>Auto</b> : The number of pixels the TV connected to the HDMI output connector supports is detected automatically and the appropriate output resolution is set. <b>480p/576p / 1080i / 720p / 1080p / 1080p:24Hz</b> : Set the output resolution. <div> <ul style="list-style-type: none"> <li>This item can be set when "i/p Scaler" is set to anything other than "OFF".</li> <li>When "i/p Scaler" is set to "Analog &amp; HDMI", the resolution of both the analog video input signal and HDMI input signal can be set.</li> <li>To watch 1080p/24Hz pictures, use a TV that supports 1080p/24Hz video signals.</li> <li>When set to "1080p:24Hz", you can enjoy film-like pictures for film sources (in 24 Hz). For video sources and mixed sources, we recommend setting the resolution to "1080p".</li> <li>It is not possible to convert a 50 Hz signal into 1080p/24Hz. It is output at a resolution of 1080p/50Hz.</li> </ul> </div>
<b>Progressive Mode</b> Set an appropriate progressive conversion mode for the source video signal. <div> <div>BD DVD TV *</div> <div>SAT/CBL DVR</div> <div>GAME * V.AUX DOCK</div> </div>	<b>Auto</b> : The video signal is automatically detected and the appropriate mode is set. <b>Video1</b> : Select mode suitable for video playback <b>Video2</b> : Select mode suitable for video and 30-frame film material playback. <div> <p>This item can be set when "i/p Scaler" is set to anything other than "OFF".</p> </div>
<b>Aspect</b> Set the aspect ratio for the video signals output to the HDMI. <div> <div>BD DVD TV *</div> <div>SAT/CBL DVR</div> <div>GAME * V.AUX DOCK</div> <div>NET/USB</div> </div>	<b>Full</b> : Output at 16:9 aspect ratio. <b>Normal</b> : Output at 4:3 aspect ratio. <div> <p>"Aspect" can be set when "i/p Scaler" is set to anything other than "OFF".</p> </div>

\* "TV" or "GAME" can be set when "HDMI" (page 82) or "COMP" (page 83) has been assigned.

## Input Mode (Audio)

Default settings are underlined.

The input modes available for selection may vary depending on the input source.

Setting items	Setting details
<b>Input Mode</b> Set the audio input modes for the different input sources. It is normally recommended to set the audio input mode to "Auto". <div> <div>BD DVD TV *</div> <div>SAT/CBL DVR</div> <div>DOCK GAME V.AUX</div> <div>CD</div> </div>	<b>Auto</b> : Automatically detect input signal and perform playback. <b>HDMI</b> : Play only signals from HDMI input. <b>Digital</b> : Play only signals from digital input. <b>Analog</b> : Play only signals from analog input. <b>EXT. IN</b> : Play only input signals from the external input terminal. <div> <ul style="list-style-type: none"> <li>"HDMI" can be set for input sources for which "HDMI" is assigned at "Input Assign" (page 82).</li> <li>"Digital" can be set for input sources for which "Digital" is assigned at "Input Assign" (page 82).</li> <li>If the input source is set to "TV" or "Game", it cannot be set to "Analog".</li> <li>When digital signals are properly input, the <b>DIG.</b> indicator lights on the display. If the <b>DIG.</b> indicator does not light, check the digital input connector assignment and the connections.</li> <li>If "HDMI Control" is set to "ON" and a TV compatible with the ARC is connected via the HDMI MONITOR connectors, the input mode whose input source is "TV" is fixed to ARC.</li> <li>If the HDMI input or digital input terminals are not assigned when the input source is "TV" or "GAME", "No Input" appears.</li> </ul> </div> <div> <b>NOTE</b>            The surround mode cannot be set if the input mode is set to "EXT. IN".         </div>
<b>Decode Mode</b> Set the audio decode mode for input source. <div> <div>BD DVD TV *</div> <div>SAT/CBL DVR</div> <div>DOCK GAME V.AUX</div> <div>CD</div> </div>	<b>Auto</b> : Detect type of digital input signal and decode and play automatically. <b>PCM</b> : Decode and play only PCM input signals. <b>DTS</b> : Decode and play only DTS input signals. <div> <ul style="list-style-type: none"> <li>This item can be set for input sources for which "HDMI" or "Digital" is assigned at "Input Assign" (page 82).</li> <li>Normally set this mode to "Auto". Set "PCM" and "DTS" when inputting the corresponding input signal.</li> </ul> </div>



## Rename


Change the display name of the selected input source.

Setting items	Setting details
<b>Rename</b> Change the display name of the selected input source.	<ul style="list-style-type: none"> <li>Up to eight characters can be input.</li> <li>For character input, see page 78.</li> </ul>
<b>Default</b> The input source name is returned to the default setting.	<b>Yes</b> : Reset to the defaults. <b>No</b> : Do not reset to the defaults.

## Source Level (Audio)

Default settings are underlined.

- This function corrects the playback level of the selected input source's audio input.
- Make this setting if there are differences in the input volume levels between the different sources.

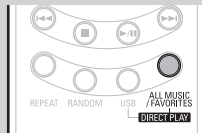
Setting details
<b>-12dB – +12dB (0dB)</b>
 The analog input level and digital input level can be adjusted independently for input sources for which "HDMI" or "DIGITAL" is assigned at "Input Assign" (page 82).

## Playback Mode

### Input source : "DOCK"

Setting items	Setting details
<b>Repeat</b> Make settings for repeat mode.	<b>OFF</b> : Repeat playback mode is canceled. <b>All</b> : All files are played repeatedly. <b>One</b> : A file being played is played repeatedly.
<b>DOCK</b>	
<b>Shuffle</b> Make settings for shuffle mode.	<b>OFF</b> : Shuffle playback mode is canceled. <b>Songs</b> : Shuffle songs. <b>Albums</b> : Shuffle albums.
<b>DOCK</b>	

### Input source : "NET/USB"

Setting items	Setting details
<b>USB Select</b> Set the USB port to be used.	<b>Front</b> : Select front-panel port. <b>Rear</b> : Select rear-panel port.
<b>NET/USB</b>	
<b>Repeat</b> Make settings for repeat mode.	<b>OFF</b> : Repeat playback mode is canceled. <b>All</b> : All files are played repeatedly (All files in a Folder or an album are played repeatedly). <b>One</b> : A file being played is played repeatedly.
<b>Media Server</b> <b>Napster</b> <b>Rhapsody</b> <b>USB/iPod</b>	
<b>Random</b> Make random mode settings.	<b>ON</b> : Enable random playback. <b>OFF</b> : Disable random playback.
<b>Media Server</b> <b>Napster</b> <b>Rhapsody</b> <b>USB/iPod</b>	
<b>Direct Play</b> Set the <b>DIRECT PLAY</b> button function of the sub remote control unit.	<b>Favorites</b> : Play songs registered as "Favorites". <b>All Music</b> : Play the songs saved on the PC media.
<b>NET/USB</b>	
	

## Still Picture

Default settings are underlined.

Make settings for playing back still picture images.

Setting items	Setting details
<b>Slide Show</b> Make slide show settings.	<b>ON</b> : Display still picture images in a slide show. <b>OFF</b> : The slide show is not played back.
<b>NET/USB</b>	
<b>Interval</b> Set the time for displaying a single image when playing back images in the slide show.	<b>+5s – +60s</b>
<b>NET/USB</b>	







## AUDIO/VIDEO ADJUST



The sound being played in the surround mode can be adjusted to your liking.  
The items (parameters) that can be adjusted depend on the signal being input and the currently set surround mode. For details on the adjustable parameters, see “Surround modes and parameters” (page 126).

### Menu operation

**1** Press **ZONE SELECT** to switch the zone mode to **[M]** (MAIN ZONE).

The **[M]** indicator lights.

**2** Press **AMP** to set the remote control unit to AMP-operation mode.

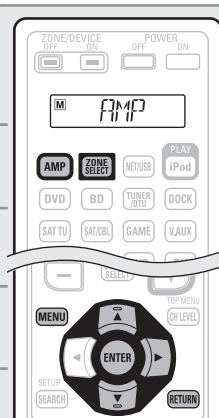
**3** Press **MENU**.

The menu is displayed on the TV screen.

**4** Use  $\Delta$   $\nabla$  to select the menu to be set or operated.

**5** Press **ENTER** or  $\triangleright$  to enter the setting.

- To return to the previous item, press **RETURN**.
- Exiting the Menu, press **MENU** while the menu is displayed.  
The menu display disappears.



### Items that can be set with the “AUDIO ADJUST” procedure

**Audio Adjust** (page 86)

- ☐ **Surround Parameters** (page 86)
- ☐ **Tone** (page 88)
- ☐ **Audyssey Settings** (page 89)
- ☐ **A-DSX Soundstage** (page 90)
- ☐ **Manual EQ** (page 91)
- ☐ **Dolby Volume** (page 91)
- ☐ **RESTORER** (page 92)
- ☐ **Audio Delay** (page 92)

**Picture Adjust** (page 92)



## Audio Adjust

### Surround Parameters

Default settings are underlined.

Adjust surround sound parameters. It may not be possible to set this item depending on the input signal (page 126 “Surround modes and parameters”).

#### NOTE

You cannot set the surround parameters in the PURE DIRECT mode.

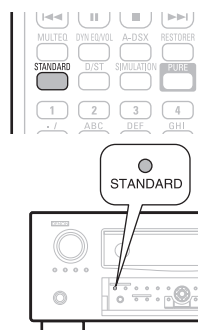
Setting items	Setting details
<b>Mode</b> Set the play modes for the different surround modes.	<input type="checkbox"/> <b>In the PLIIx or PLII mode</b> <b>Cinema</b> : Surround sound mode optimized for movie sources. <b>Music</b> : Surround sound mode optimized for music sources. <b>Game</b> : Surround sound mode optimized for games. <b>Pro Logic</b> : Dolby Pro Logic playback mode (PLII mode only).
	<input type="checkbox"/> <b>In the PLIIz mode</b> <b>Height</b> : Dolby PLIIz Height playback mode.
	<input type="checkbox"/> <b>In the DTS NEO:6 mode</b> <b>Cinema</b> : Surround sound mode optimized for movie sources. <b>Music</b> : Surround sound mode optimized for music sources.
	<p>• When “Surround Parameters” – “PLIIz Height” (page 88) is set to “ON”, the “Height” mode is set automatically.</p> <p>• The “Music” mode is also effective for movie sources including a lot of stereo music.</p>
<b>Cinema EQ</b> Soften the treble range of movie soundtracks for better understanding.	<b>ON</b> : “Cinema EQ” is used. <b>OFF</b> : “Cinema EQ” is not used.
<b>DRC</b> Compress dynamic range (difference between loud and soft sounds).	<b>Auto</b> : Automatic dynamic range compression on/off control according to source. This can be set in the Dolby TrueHD mode. <b>Low / Middle / High</b> : These set the compression level. <b>OFF</b> : Dynamic range compression always off.
<b>D.COMP</b> Compress dynamic range (difference between loud and soft sounds).	<b>OFF</b> : Turn dynamic range compression off. <b>Low / Middle / High</b> : These set the compression level.







Setting items	Setting details
<b>LFE</b> Adjust the low-frequency effects level (LFE).	<b>-10dB – 0dB</b> For proper playback of the different sources, we recommend setting to the values below. <ul style="list-style-type: none"><li>• Dolby Digital sources : “0dB”</li><li>• DTS movie sources : “0dB”</li><li>• DTS music sources : “-10dB”</li></ul>
<b>Center Image</b> Assign center channel signal to front left and right channels for wider sound.	<b>0.0 – 1.0 (0.3)</b>
<b>Panorama</b> Assign front L/R signal also to surround channels for wider sound.	<b>ON</b> : Set. <b>OFF</b> : Do not set.
<b>Dimension</b> Shift sound image center to front or rear to adjust playback balance.	<b>0 – 6 (3)</b>
<b>Center Width</b> Assign center channel signal to front left and right channels for wider sound.	<b>0 – 7 (3)</b>
<b>Delay Time</b> Adjust delay time to control sound stage size.	<b>0ms – 300ms (30ms)</b>
<b>AFDM (Auto flag detect mode)</b> Detect the source's surround back channel signal and set the optimum surround mode automatically.	<b>ON</b> : Set. <b>OFF</b> : Do not set.  <b>[Example] Playing Dolby Digital software (with EX flag)</b> <ul style="list-style-type: none"><li>• When “AFDM” is set to “ON”, the surround mode is automatically set to the DOLBY D + PLIIx C mode.</li><li>• To play in the DOLBY DIGITAL EX mode, set “AFDM” to “OFF” and “Surround Parameters” – “Surround Back” to “MTRX ON”.</li></ul> Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when “AFDM” is set to “ON”, set “Surround Parameters” – “Surround Back” to “MTRX ON” or “PLIIx CINEMA”.

Setting items	Setting details
<b>Surround Back</b> Sets the method of generating of the surround back channel.	<input type="checkbox"/> <b>For 2-channel sources</b> <b>ON</b> : The surround back channel is used. <b>OFF</b> : No signal is played from the surround back channels.  <input type="checkbox"/> <b>For multi-channel sources</b> Set the decoding method for the surround back channel. <b>DSCRT ON</b> : Play the surround back signals included in the 7.1-channel source. <b>MTRX ON</b> : Generate and play the surround back channel signals from the surround channel signals by means of the Dolby Digital EX decoder. <b>ES DSCRT*1</b> : Play the surround back signals included in the 6.1-channel DTS source. <b>ES MTRX*2</b> : Generate and play the surround back channel signals from the surround channel signals of the DTS source by means of the DTS-ES decoder. <b>ON*3</b> : Convert the 5.1-channel source of the DTS-HD input signals to the 7.1-channel output recommended by DTS and then play. <b>PLIIx CINEMA*4</b> : Generate and play the surround back signals by decoding the signals in the Dolby Pro Logic IIx Cinema mode. <b>PLIIx MUSIC</b> : Generate and play the surround back signals by decoding the signals in the Dolby Pro Logic IIx Music mode. <b>OFF</b> : Do not play the surround back channel.  *1 This can be selected when playing DTS sources including a signal to identify discrete 6.1-channel signals. *2 This can be selected when playing DTS sources. *3 This can be selected when playing the 5.1-channel source of DTS-HD. *4 This can be selected when “Speaker Config.” – “Surround Back” (page 96) is set to “2 spkrs”.
	This can also be set by pressing <b>STANDARD</b> . • If the source being played contains a surround back signal, the decoder type is automatically selected by the AFDM function. Set “AFDM” to “OFF” to switch to your preferred decoder.  <b>NOTE</b> If the setting in “Speaker Config.” – “Surround Back” (page 96) is “None”, “Surround Back” is not displayed.






Setting items	Setting details
<b>Height Gain</b> Control the front height channel volume.	<b>Low</b> : Reduce the front height channel volume. <b>Mid</b> : Front height channel sound is output with standard sound volume. <b>High</b> : Increase the front height channel volume. <b>NOTE</b> "Height Gain" is displayed for the following settings. • When the "Speaker Config." – "Front Height" setting (🔧 page 96) is set other than to "None". • When surround mode is "PLIIz" or the PLIIz decoder is used.
<b>PLIIz Height</b> Determine whether to use front height channel.	<b>ON</b> : Audio is output from the front height speaker. <b>OFF</b> : Audio is not output from the front height speaker. <b>NOTE</b> • "PLIIz Height" is displayed with the settings listed below. • When the "Speaker Config." – "Front Height" setting (🔧 page 96) is set to other than "None". • "PLIIz Height" cannot be set if the HD Audio source being played includes a front height channel. In this case, the Front height channel is played back without decoding in PLIIz mode, using the input signal.
<b>Speaker</b> Make settings for the speakers outputting sound when playing back in DENON original surround mode.	<b>Height/Wide</b> : Sound is output from the front height speakers and front wide speakers. <b>Height</b> : Sound is output from the front height speakers. <b>Wide</b> : Sound is output from the front wide speakers. <b>OFF</b> : Sound is not output from the front wide speakers and front height speakers. <b>NOTE</b> Only speakers that are set to something other than "None" in "Speaker Config." (🔧 page 95) can be selected.
<b>Subwoofer Att.</b> Attenuate subwoofer level when using EXT. IN input.	<b>ON</b> : Set. <b>OFF</b> : Do not set. Usually use in this mode.  Set this to "ON" if the subwoofer channel level seems too high when playing audio signal.
<b>Subwoofer</b> Turn subwoofer output on and off.	<b>ON</b> : The subwoofer is used. <b>OFF</b> : The subwoofer is not used. <b>NOTE</b> This can be set when the surround mode is "DIRECT" (🔧 page 52) and the "Subwoofer Mode" (🔧 page 96) is "LFE+Main".
<b>Effect</b> Switch effect signal for multi-surround speakers on and off.	<b>ON</b> : Create a wider sound stage. <b>OFF</b> : The effect is not set.

Setting items	Setting details
<b>Effect Level</b> Adjust effect signal level.	<b>1 – 15 (10)</b>  Set to a lower level if the positioning and sense of phase of the surround signals seems unnatural.
<b>Room Size</b> Determine size of acoustic environment.	<b>Medium</b> : Simulate acoustics of a medium room. <b>Medium-large</b> : Simulate acoustics of a medium-large room. <b>Large</b> : Simulate acoustics of a large room. <b>Small</b> : Simulate acoustics of a small room. <b>Medium-small</b> : Simulate acoustics of a medium-small room. <b>NOTE</b> "Room Size" does not indicate the size of the room in which sources are played.
<b>Default</b> The "Surround Parameters" settings are returned to the default settings.	<b>Yes</b> : Reset to the defaults. <b>No</b> : Do not reset to the defaults.

## 🔊 Tone

Adjust the tonal quality of the sound.

Setting items	Setting details
<b>Tone Control</b> Set the tone control function to ON and OFF.	<b>ON</b> : Allow tone adjustment (bass, treble). <b>OFF</b> : Playback without tone adjustment.  "Tone Control" can be set when "Dynamic EQ" (🔧 page 89) and "Dolby Volume" (🔧 page 91) are set to "OFF". <b>NOTE</b> • "Tone Control" settings are not reflected to ZONE2 and ZONE3. • The tone cannot be adjusted in the direct mode.
<b>Bass</b> Adjust low frequency range (bass).	<b>-6dB – +6dB</b>  "Bass" can be set when "Tone Control" is set to "ON".
<b>Treble</b> Adjust high frequency range (treble).	<b>-6dB – +6dB</b>  "Treble" can be set when "Tone Control" is set to "ON".





## Audyssey Settings

Default settings are underlined.

Set MultEQ® XT 32, Dynamic EQ® and Dynamic Volume®. These can be selected after Audyssey® Auto Setup has been performed. For additional information on Audyssey technology, please see page 132.




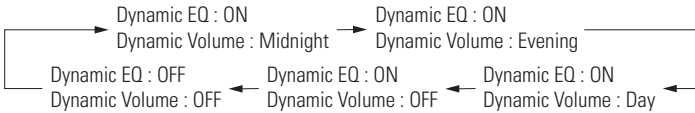

### NOTE

If you have not performed Auto Setup, or if you change the speaker settings after performing Auto Setup, you may not be able to select Dynamic EQ/Dynamic Volume, and "Run Audyssey" may be displayed. In this case, either perform Audyssey Auto Setup over again or perform "Restore" (page 12) to return to the settings after Audyssey Auto Setup was run.


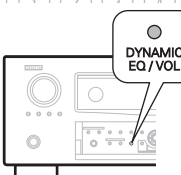
Setting items	Setting details
<b>MultEQ XT 32</b> Select one equalizer from three modes. MultEQ XT 32 corrects both time and frequency response problems in the listening area based on Audyssey Auto Setup calibration. We recommend "Audyssey". MultEQ XT 32 is the prerequisite function for Dynamic EQ and Dynamic Volume.	<p><b>OFF</b> : Turn "MultEQ XT 32" equalizer off.</p> <p><b>Audyssey</b> : Optimize the frequency response of all speakers.</p> <p><b>Audyssey Byp.L/R</b> : Optimize frequency response of speakers except front L and R speakers.</p> <p><b>Audyssey Flat</b> : Optimize frequency response of all speakers to flat response.</p> <p><b>Manual</b> : Apply frequency response set with "Manual EQ" (page 91).</p> <p>• "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after Audyssey Auto Setup has been performed. "Audyssey" is automatically selected after performing Audyssey Auto Setup. When "Audyssey", "Audyssey Byp. L/R" or "Audyssey Flat" is selected,  illuminates.</p> <p>• After running Audyssey Auto Setup, if the Speaker Configuration, Distance, Channel Level, and Crossover Frequency have changed without increasing the number of speakers measured, only  illuminates.</p> <p>• Pressing <b>MULTEQ</b> makes this setting.</p> <p><b>NOTE</b></p> <p>• "MultEQ XT 32" and "Manual" cannot be selected when "EQ Customize" is set to "Not Used" (page 100).</p> <p>• When using headphones, "MultEQ XT 32" is automatically set to "OFF".</p>



"MultEQ XT 32", "Dynamic EQ" and "Dynamic Volume" settings are stored for each input source.

Setting items	Setting details
<b>Dynamic EQ</b> Solve the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Works with MultEQ XT 32.	<p><b>ON</b> : Use Dynamic EQ.</p> <p><b>OFF</b> : Do not use Dynamic EQ.</p> <p>  or  is displayed when set to "ON".</p> <p>• Buttons on the remote control unit or main unit can be used for operations. Press <b>DYN EQ/VOL</b>.</p> <p>Each time <b>DYN EQ/VOL</b> is pressed, the setting is changed as shown below.</p> <div style="text-align: center;">  </div>
<b>Reference Level Offset</b> Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.	<p><b>0dB</b> (Film Ref) : This is the default setting and should be used when listening to movies.</p> <p><b>5dB</b> : Select this setting for content that has a very wide dynamic range, such as classical music.</p> <p><b>10dB</b> : Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.</p> <p><b>15dB</b> : Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.</p> <p> Setting is enabled when "Dynamic EQ" is "ON" (page 89).</p>


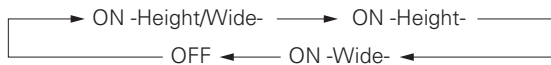
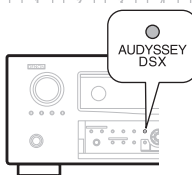



Setting items	Setting details
<b>Dynamic Volume®</b> Solve the problem of large variations in volume level between TV, movies and other content (between quiet passages and loud passages, etc.) by automatically adjusting to the user's preferred volume setting.	<p><b>OFF</b> : Do not use "Dynamic Volume".</p> <p><b>Midnight</b> : Most adjustment to softest and loudest sounds.</p> <p><b>Evening</b> : Medium adjustment to loudest and softest sound.</p> <p><b>Day</b> : Least adjustment to loudest and softest sounds.</p> <p> is displayed when set to "Midnight", "Evening" or "Day".</p> <ul style="list-style-type: none"> <li>If "Dynamic Volume" is set to "Yes" in Auto Setup (page 10), the setting is automatically changed to "Evening".</li> <li>Buttons on the remote control unit or main unit can be used for operations. Press <b>DYN EQ/VOL</b>.</li> </ul> <p>Each time <b>DYN EQ/VOL</b> is pressed, the setting is changed as shown below.</p> <pre>           Dynamic EQ : ON      Dynamic EQ : ON           Dynamic Volume : Midnight  Dynamic Volume : Evening                       Dynamic EQ : OFF      Dynamic EQ : ON      Dynamic EQ : ON           Dynamic Volume : OFF  Dynamic Volume : OFF  Dynamic Volume : Day         </pre> <p></p>

## A-DSX Soundstage

Default settings are underlined.

Adjust Audyssey DSX™ setting and sound stage parameters.

Setting items	Setting details
<b>Audyssey DSX</b> Provides more immersive surround sound by adding the new channels.	<p><b>ON-Height/Wide-</b> : Turn on A-DSX processing for height and wide expansion.</p> <p><b>ON-Height-</b> : Turn on A-DSX processing for height expansion.</p> <p><b>ON-Wide-</b> : Turn on A-DSX processing for wide expansion.</p> <p><b>OFF</b> : Do not set Audyssey DSX.</p> <p> This can also be set by pressing <b>A-DSX</b> on the remote control unit or press <b>AUDYSSEY DSX</b> on the main unit.</p> <ul style="list-style-type: none"> <li>The <b>AUDYSSEY DSX</b> indicator illuminates on the display.</li> </ul> <p></p> <p></p>
<b>Stage Width</b> Adjust sound stage width when using front wide speakers.	<p><b>-10 - +10 (0)</b></p>
<b>Stage Height</b> Adjust sound stage height when using front height speakers.	<p><b>-10 - +10 (0)</b></p> <p> "Audyssey DSX" can be set when you are using front height speakers or front wide speakers.</p> <ul style="list-style-type: none"> <li>"Audyssey DSX" is only valid when using a center speaker.</li> <li>"Audyssey DSX" is valid when surround mode is STANDARD mode other than PLIIz Height.</li> <li>"A-DSX Soundstage" cannot be configured if the HD Audio source being played includes Front height and Front wide channels. In this case, the respective channels are played back using the input signals.</li> </ul> <p><b>About Audyssey Dynamic Surround Expansion (A-DSX)</b></p> <p>Audyssey DSX is a scalable surround expansion system that adds new channels to improve the surround impression. Based on research in human hearing Audyssey DSX adds a pair of Wide channels in the front because that information is critical in the rendering of a realistic soundstage.</p> <p>Audyssey DSX then adds a pair of Height channels above the main front channels to reproduce the next most important acoustical and perceptual cues related to soundstage depth. In addition to creating these new channels, Audyssey DSX applies Surround Envelopment Processing to enhance the blend between the front and side/back surround channels. The result is a much more seamless and enveloping home theater experience.</p>




## Manual EQ

Default settings are underlined.


Use the graphic equalizer to adjust the tone of each speaker.

"Manual EQ" can be set when "MultEQ XT 32" setting (page 89) is "Manual".

Setting items	Setting details
<b>Adjust CH</b> Correct the tone of each speaker.	① Select the speaker tone adjustment method. <b>L/R</b> : Adjust the tone of left and right speakers together. <b>Each</b> : Adjust the tone of each speaker. <b>All</b> : Adjust the tone of all speakers together. ② Select the speaker. ③ Select the adjustment frequency band. <b>63Hz / 125Hz / 250Hz / 500Hz / 1kHz / 2kHz / 4kHz / 8kHz / 16kHz</b> • Select the speakers you want to adjust when "L/R" or "Each" is selected. ④ Adjust the level. <b>-20.0dB – +6.0dB (0.0dB)</b>
<b>Curve Copy</b> Copy "Audyssey Flat" curve from MultEQ <sup>®</sup> XT 32.	<b>Yes</b> : Copy. <b>No</b> : Do not copy.  "Curve Copy" is displayed after Audyssey <sup>®</sup> Auto Setup has been performed.
<b>Default</b> The "Manual EQ" settings are returned to the default settings.	<b>Yes</b> : Reset to the defaults. <b>No</b> : Do not reset to the defaults.

## Dolby Volume

Default settings are underlined>.

Setting items	Setting details
<b>Dolby Volume</b> Automatically adjusts the volume that varies depending on the contents and input source and performs appropriate corrections of the frequency characteristic.	<b>ON</b> : Enables the Dolby Volume function. <b>OFF</b> : Disables the Dolby Volume function.  <ul style="list-style-type: none"> <li>Store "Dolby Volume" for each source.</li> <li>When "Dolby Volume" is set to "ON", you cannot set "Tone", "D.COMP", "DRC" (page 86, 88).</li> <li>When "Dolby Volume" is set to "ON", "MultEQ XT 32" (page 89) is automatically set to "OFF".</li> </ul> <b>NOTE</b> <ul style="list-style-type: none"> <li>If the playback level of a source you are listening to is high, the data compression volume will become higher when the Dolby Volume function is enabled. When you set "Dolby Volume" to "ON" from "OFF", the original playback level is restored. It is recommended that you lower the volume once before changing the setting.</li> <li>The Dolby Volume function cannot be used in the DIRECT or PURE DIRECT mode.</li> </ul>
<b>Volume Leveler</b> Adjusts the volume so that the playback level between different contents will be always constant.	<b>Low</b> : Set the adjustment volume to the lowest level. Adjusts the volume of contents with extremely high and low volume to a constant volume. <b>Mid</b> : Set the adjustment volume to the medium level. Adjusts the volume of contents with higher and lower volume than the average volume to a constant volume. <b>High</b> : Set the adjustment volume to the highest level. Adjusts the volume of all contents to a constant volume.
<b>Volume Modeler</b> Perform volume correction for each frequency band.	<b>Half</b> : Corrects the frequency to a flat level to make listening easier for playback with low volume. <b>Full</b> : Corrects the frequency to a flat level to make listening easier at all times. <b>OFF</b> : Disables the Volume Modeler function.



"Dolby Volume" settings are stored for each input source.



## RESTORER

Compressed audio formats such as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.

### Setting details

**OFF** : Do not use RESTORER.

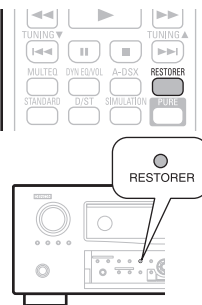
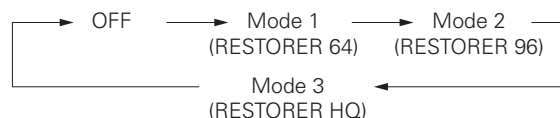
**Mode1** (RESTORER 64) : Optimized mode for compressed sources with very weak highs.

**Mode2** (RESTORER 96) : Apply suitable bass and treble boost for all compressed sources.

**Mode3** (RESTORER HQ) : Optimized mode for compressed sources with normal highs.



- This item can be set with analog signals or PCM signal (fs = 44.1/48 kHz) is input.
- "RESTORER" settings are stored for each input source.
- This item default setting for "iPod" and "NET/USB" is "Mode3". All others are set to "OFF".
- When set to something other than "OFF", **RSTR** is displayed.
- Pressing **RESTORER** on the remote control unit or the main unit makes this setting.
- This cannot be set when the surround mode is set to "DIRECT" or "PURE DIRECT".



## Audio Delay

**Default settings are underlined.**

While viewing video, manually adjust the time to delay audio output.

### Setting details

**0ms – 200ms**



- This item can be set within the range of 0 to 100 ms when "Auto Lip Sync" is set to "ON" and when a TV compatible with Auto Lip Sync is connected.
- Store "Audio Delay" for each input source.
- Audio Delay for game mode can be set when "Video Mode" (page 83) is set to "Auto" or "Game".



## Picture Adjust

**Default settings are underlined.**

- This item can be set when the input source is **BD** **DVD** **TV** **SAT/CBL** **DVR** **GAME** **VAUX** **DOCK** **NET/USB**.
- With input sources other than the ones above, this item can be set when "Video Select" is selected. In this case, the original input source settings are called out.
- Can be set when the "Video Convert" setting (page 83) is "ON".
- "TV" or "GAME" can be set when "HDMI" (page 82) or "COMP" (page 83) has been assigned.

Setting items	Setting details
<b>Contrast</b> Adjust picture contrast.	<b>-6 – +6 (0)</b>
<b>Brightness</b> Adjust picture brightness.	<b>0 – +12</b>
<b>Chroma Level</b> Adjust picture chroma level (saturation).	<b>-6 – +6 (0)</b>
<b>Hue</b> Adjust color hue.	<b>-6 – +6 (0)</b>
<b>DNR</b> Reduce overall picture noise.	<b>OFF / Low / Middle / High</b>
<b>Enhancer</b> Emphasize picture contours.	<b>0 – +12</b>



- "DNR" and "Enhancer" are each effective with HDMI output.
- The value set at "Picture Adjust" is stored in the memory individually for each input source.







# MANUAL SETUP



Set when changing Audyssey® Auto Setup settings, or when changing the audio, video, display or other settings.

- If you change the speaker settings after performing Audyssey Auto Setup, it will not be possible to set MultEQ® XT 32, Dynamic EQ® and Dynamic Volume® (see page 89, 90).
- Can be used without changing the settings. Please set if necessary.

## Menu operation

**1** Press **ZONE SELECT** to switch the zone mode to **[M]** (MAIN ZONE).

The **[M]** indicator lights.

**2** Press **AMP** to set the remote control unit to AMP-operation mode.

**3** Press **MENU**.

The menu is displayed on the TV screen.

**4** Press **△▽** to select the menu to be set or operated.

**5** Press **ENTER** or **▷** to enter the setting.

- To return to the previous item, press **RETURN**.
- Exiting the Menu, press **MENU** while the menu is displayed. The menu display disappears.

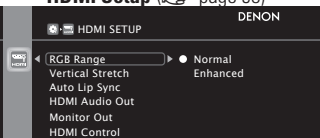


## Items that can be set with the “MANUAL SETUP” procedure

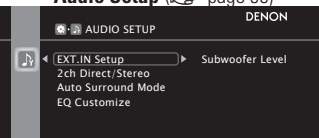
### Speaker Setup (see page 93)



### HDMI Setup (see page 98)



### Audio Setup (see page 99)



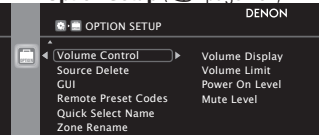
### Network Setup (see page 101)



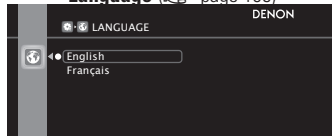
### Zone Setup (see page 103)



### Option Setup (see page 104)



### Language (see page 106)



## Speaker Setup

Default settings are underlined.

Perform when setting the speakers manually or when changing settings made in Audyssey Auto Setup.

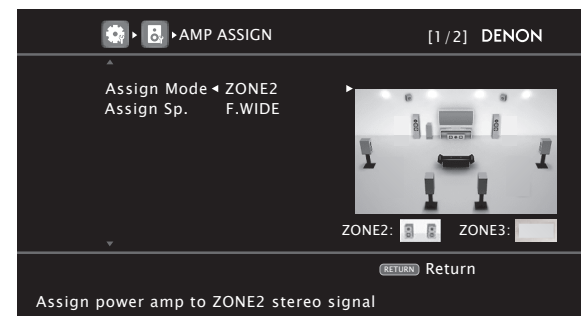
- If you change the speaker settings after performing Audyssey Auto Setup, it will not be possible to select MultEQ XT 32, Dynamic EQ and Dynamic Volume (see page 89, 90).
- MANUAL SETUP can be used without changing the settings. Please set if necessary.

## Change power amp assignment to suit the speaker system configuration (Amp Assign)

### Examples of Amp Assign menu screen displays

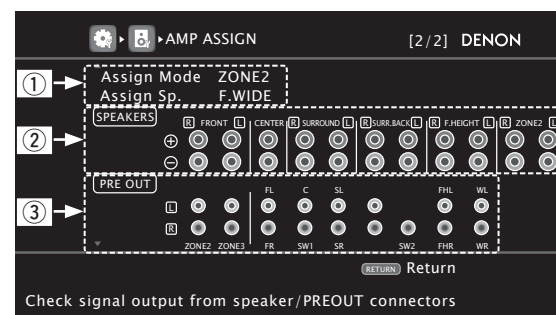
#### [1st page]

Set items referring to “Steps for setting “Amp Assign”” (see page 94).



#### [2nd page]

- The signal being output by each speaker can change according to “Amp Assign” setting.
- The speaker terminals and the output from the pre-out terminals can be checked on this screen.



- 1 Current settings
- 2 Signal being output from speaker terminal
- 3 Output from pre-out terminal
  - Terminals not being used are greyed out.



See also page 5, 6, 56 – 62 for how to connect the speakers.

Remote control operation buttons



Move the cursor (Up/Down/Left/Right)



Confirm the setting



Return to previous menu

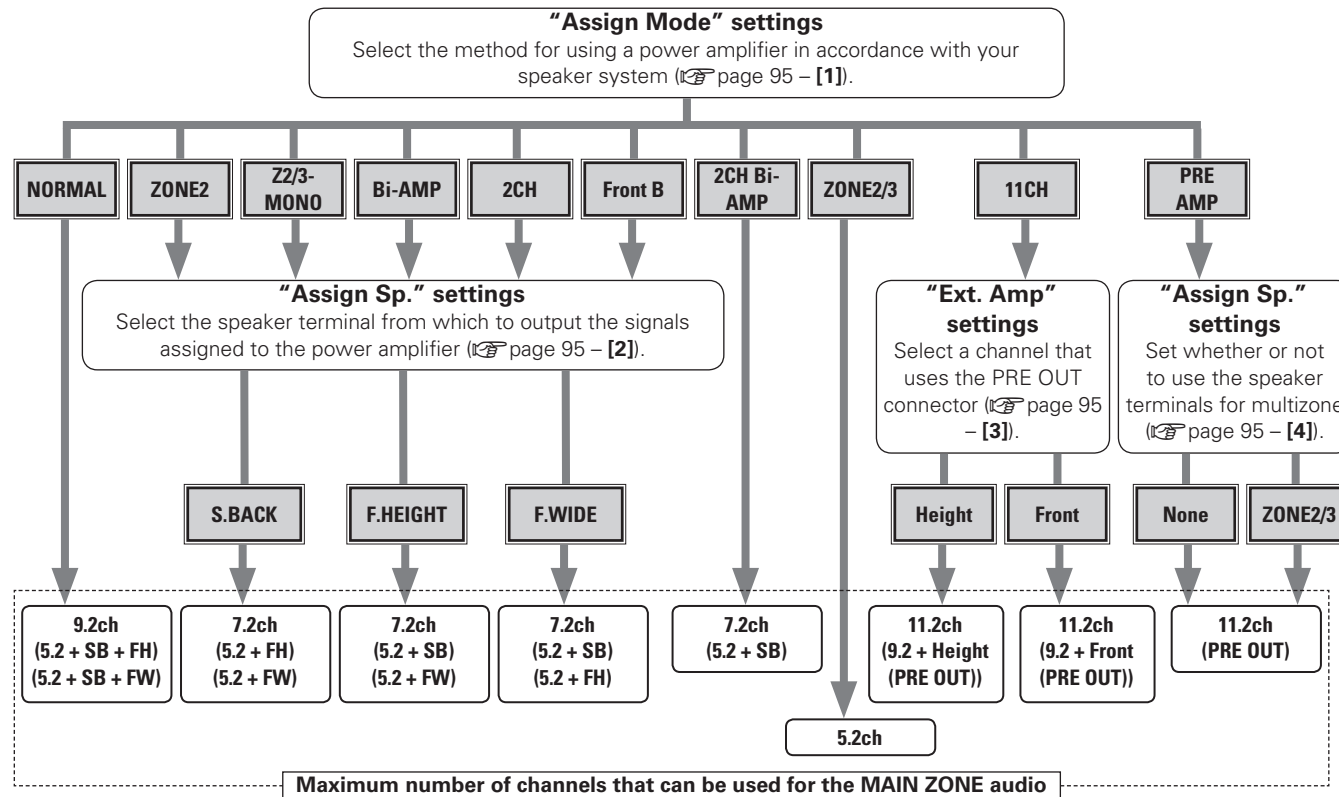


## Steps for setting "Amp Assign"

This unit is provided with ten types of Assign Mode settings.

You can switch the channels assigned to a power amplifier in accordance with your speaker system or perform playback using up to 11 channels using a combination of the built-in power amplifier for 9-channel and an external power amplifier for 2-channel. You can also use this unit as a preamplifier.

Use the following flowchart to set the speaker system of this unit.



Setting items	Setting details
<b>Amp Assign</b> Change the power amp assignment to suit the speaker system configuration.	<p>[1] <b>Assign Mode</b> : Select the method for using a power amplifier in accordance with your speaker system.</p> <ul style="list-style-type: none"> <li>• <b>NORMAL</b> : Select the NORMAL setting to perform 7.2-channel or 9.2-channel playback using the surround back, front height, or front wide speakers. The surround back, front height, and front wide speakers are automatically switched in accordance with the surround mode or input signals.</li> <li>• <b>ZONE2</b> : Select the ZONE 2 setting to assign the unit's built-in power amplifier for ZONE2 and output the audio in stereo.</li> <li>• <b>ZONE2/3</b> : Select the ZONE 2/3 setting to assign the unit's built-in power amplifier for ZONE2 and ZONE3 and output the audio in stereo.</li> <li>• <b>Z2/3-MONO</b> : Select the ZONE 2/3-MONO setting to assign the unit's built-in power amplifier for ZONE2 and ZONE3 and output the audio in monaural.</li> <li>• <b>Bi-AMP</b> : Select the Bi-AMP setting to connect the front speakers via the bi-amp connection.</li> <li>• <b>2CH</b> : When you perform 2-channel playback in the DIRECT or STEREO mode, select the 2CH setting to use the other front speakers for playback.</li> <li>• <b>2CH Bi-AMP</b> : When you perform 2-channel playback in the DIRECT or STEREO mode, select the 2CH Bi-AMP setting to use the other front speakers for Bi-Amp playback.</li> <li>• <b>Front B</b> : Select the Front B setting to use the second set of front speakers for playback. You can switch the front speakers A and B to be used for playback in accordance with the 2-channel playback or multi-channel playback mode. When you select this Front B setting, also perform the "Front Speaker Setup" (🔧 page 98) procedure.</li> <li>• <b>11CH</b> : Select the 11CH setting to perform playback using up to 11.2 channels using a combination of the unit's built-in power amplifier for 9-channel and an external power amplifier for 2-channel.</li> <li>• <b>PRE AMP</b> : Select the PRE AMP setting to use this unit as a preamplifier by connecting all speakers to an external power amplifier. You can perform up to 11.2-channel playback. When you use the PRE AMP mode, the built-in power amplifier operation of this unit is stopped, and interference to the preamplifier from the power amplifier is reduced.</li> </ul>

Setting items	Setting details
<b>Amp Assign</b> (Continued)	<p><input type="checkbox"/> When you set "Assign Mode" to "ZONE2", "ZONE2/3-MONO", "Bi-AMP", "2CH" or "Front B", perform the following setting.</p> <p>[2] <b>Assign Sp.</b> : Select a speaker for audio output assigned by "Assign Mode".</p> <ul style="list-style-type: none"> <li>• <b>S.BACK</b> : Select the S.BACK setting to output the assigned audio from the surround back speakers.</li> <li>• <b>F.HEIGHT</b> : Select the F.HEIGHT setting to output the assigned audio from the front height speakers.</li> <li>• <b>F.WIDE</b> : Select the F.WIDE setting to output the assigned audio from the front wide speakers.</li> </ul> <p><input type="checkbox"/> When you set "Assign Mode" to "11CH", perform the following setting.</p> <p>[3] <b>Ext. Amp</b> : Select the PRE OUT connector to which an external power amplifier is connected.</p> <ul style="list-style-type: none"> <li>• <b>Height</b> : Select when you perform playback by connecting an external power amplifier to the front height channel of the PRE OUT connector.</li> <li>• <b>Front</b> : Select when you perform playback by connecting an external power amplifier to the front channel of PRE OUT connector.</li> </ul> <p><input type="checkbox"/> When you set "Assign Mode" to "PRE AMP", perform the following setting.</p> <p>[4] <b>Assign Sp.</b> : Set whether or not to use the speaker terminals for multizone.</p> <ul style="list-style-type: none"> <li>• <b>None</b> : The speaker terminals of this unit are not used for multizone.</li> <li>• <b>ZONE2/3</b> : Use the speaker terminals of this unit for multizone. When ZONE2/3 is set, ZONE2 audio is output from the SURR.BACK/AMP ASSIGN speaker terminals and ZONE3 audio is output from the F.WIDE/AMP ASSIGN speaker terminals.</li> </ul>
<b>Speaker Config.</b> Select speaker configuration and size (bass reproduction capability).	<p><b>Front</b> : Set the front speaker size.</p> <ul style="list-style-type: none"> <li>• <b>Large</b> : Use a large speaker that can adequately play back low frequencies.</li> <li>• <b>Small</b> : Use a small speaker that has inadequate playback capacity for low frequencies.</li> </ul> <p>🔧</p> <ul style="list-style-type: none"> <li>• When "Subwoofer" is set to "None", "Front" is automatically set to "Large".</li> <li>• When "Front" is set to "Small", "Center", "Surround", "Surround Back", "Front Height" and "Front Wide" can not be set to "Large".</li> </ul>
<b>NOTE</b> 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 98) as the standard for determining bass reproduction capability.	



Setting items	Setting details
<b>Speaker Config.</b> (Continued)	<p><b>Center</b> : Set the presence and size of the center speaker.</p> <ul style="list-style-type: none"> <li>• <b>Large</b> : Use a large speaker that can adequately play back low frequencies.</li> <li>• <b>Small</b> : Use a small speaker that has inadequate playback capacity for low frequencies.</li> <li>• <b>None</b> : Select when a center speaker is not connected.</li> </ul> <p> "Large" is not displayed when "Front" is set to "Small".</p> <hr/> <p><b>Subwoofer</b> : Set the presence of a subwoofer.</p> <ul style="list-style-type: none"> <li>• <b>2 spkrs</b> : Two subwoofers are used.</li> <li>• <b>1 spkr</b> : One subwoofer is used.</li> <li>• <b>None</b> : Select when a subwoofer is not connected.</li> </ul> <p> When "Front" is set to "Small", "Subwoofer" is automatically set to "1 spkr" or "2 spkrs".</p> <hr/> <p><b>Surround</b> : Set the presence and size of the surround speakers.</p> <ul style="list-style-type: none"> <li>• <b>Large</b> : Use a large speaker that can adequately play back low frequencies.</li> <li>• <b>Small</b> : Use a small speaker that has inadequate playback capacity for low frequencies.</li> <li>• <b>None</b> : Select when the surround speakers are not connected.</li> </ul> <p></p> <ul style="list-style-type: none"> <li>• When "Surround" is set to "Large", "Surround Back", "Front Height" and "Front Wide" can be set to "Large".</li> <li>• When "Surround" is set to "None", "Surround Back", "Front Height" and "Front Wide" are automatically set to "None".</li> </ul> <hr/> <p><b>Surround Back</b> : Set the presence, size and number of surround back speakers.</p> <ul style="list-style-type: none"> <li>• <b>Large</b> : Use a large speaker that can adequately play back low frequencies.</li> <li>• <b>Small</b> : Use a small speaker that has inadequate playback capacity for low frequencies.</li> <li>• <b>None</b> : Select when the surround back speakers are not connected.</li> </ul> <ul style="list-style-type: none"> <li>• <b>2 spkrs</b> : Use two surround back speakers.</li> <li>• <b>1 spkr</b> : Use only one surround back speaker. When you select this setting, connect the surround back speaker to the left (L) channel.</li> </ul> <p> Even when the "Surround Back" setting is other than "None", sound may not be emitted from the surround back speaker, depending on the playback source. In this case, make "Surround Parameters" – "Surround Back" setting other than "OFF" ( page 87).</p> <p><b>NOTE</b></p> <p>"Surround Back" cannot be set when "Amp Assign" – "Assign Mode" ( page 95) is set to "ZONE2/3" or when "Assign Sp." is set to "S.BACK".</p>



Setting items	Setting details
<b>Speaker Config.</b> (Continued)	<p><b>Front Height</b> : Set the presence and size of the front height speakers.</p> <ul style="list-style-type: none"> <li>• <b>Large</b> : Use a large speaker that can adequately play back low frequencies.</li> <li>• <b>Small</b> : Use a small speaker that has inadequate playback capacity for low frequencies.</li> <li>• <b>None</b> : Select when the front height speakers are not connected.</li> </ul> <p><b>NOTE</b></p> <p>"Front Height" cannot be set when "Amp Assign" – "Assign Mode" ( page 95) is set to "ZONE2/3", "2CH Bi-AMP" or when "Assign Sp." is set to "F.HEIGHT".</p> <hr/> <p><b>Front Wide</b> : Set the presence and size of the front wide speakers.</p> <ul style="list-style-type: none"> <li>• <b>Large</b> : Use a large speaker that can adequately play back low frequencies.</li> <li>• <b>Small</b> : Use a small speaker that has inadequate playback capacity for low frequencies.</li> <li>• <b>None</b> : Select when the front wide speakers are not connected.</li> </ul> <p><b>NOTE</b></p> <p>"Front Wide" cannot be set when "Amp Assign" – "Assign Mode" ( page 95) is set to "ZONE2/3", "2CH Bi-AMP" or when "Assign Sp." is set to "F.WIDE".</p> <hr/> <p><b>Bass Setting</b> Set subwoofer and LFE signal range playback.</p> <p><b>Subwoofer Mode</b> : Select low range signals to be reproduced by subwoofer.</p> <ul style="list-style-type: none"> <li>• <b>LFE</b> : The low range signal of the channel set to "Small" speaker size is added to the LFE signal output from the subwoofer.</li> <li>• <b>LFE+Main</b> : The low range signal of all channels is added to the LFE signal output from the subwoofer.</li> </ul> <p></p> <ul style="list-style-type: none"> <li>• "Subwoofer Mode" can be set when "Speaker Config." – "Subwoofer" ( page 96) is set to "1 spkr" or "2 spkrs".</li> <li>• Play music or a movie source and select the mode offering the strongest bass.</li> <li>• Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer.</li> </ul> <p><b>NOTE</b></p> <p>If "Front" and "Center" for "Speaker Config." are set to "Large", and "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode.</p> <hr/> <p><b>LPF for LFE</b> : Set LFE signal playback range.</p> <p>• <b>80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz</b></p>



Setting items	Setting details
<b>Distance</b> Set distance from listening position to speakers. Measure beforehand the distance from the listening position to each speaker.	<p><b>Feet / Meters</b> : Set the unit of distance.</p> <p><b>Step</b> : Set the minimum variable width of the distance.</p> <ul style="list-style-type: none"> <li>• <b>1ft / 0.1ft</b></li> <li>• <b>0.1m / 0.01m</b></li> </ul> <p><b>Default</b> : The "Distance" settings are returned to the default settings.</p> <ul style="list-style-type: none"> <li>• <b>Yes</b> : Reset to the defaults.</li> <li>• <b>No</b> : Do not reset to the defaults.</li> </ul> <p> When you select "Default" and press <b>ENTER</b>, the "Return all settings to the default?" prompt is displayed. Select either "Yes" or "No", and press <b>ENTER</b>.</p> <p><b>Front L / Front R / Center / Subwoofer / Subwoofer 1*1 / Subwoofer 2*2 / Surr.L / Surr.R / Surr.Back L*2 / Surr.Back R*2 / Front Height L / Front Height R / Front Wide L / Front Wide R</b> : Select the speaker.</p> <ul style="list-style-type: none"> <li>* 1 When the "Speaker Config." – "Subwoofer" setting ( page 96) is set to "2 spkr", "Subwoofer 1" and "Subwoofer 2" are displayed.</li> <li>* 2 When the "Speaker Config." – "Surround Back" setting ( page 96) is set to "1 spkr", "Surround Back" is displayed.</li> </ul> <ul style="list-style-type: none"> <li>• <b>0.0ft – 60.0ft / 0.00m – 18.00m</b> : Set the distance.</li> </ul> <p></p> <ul style="list-style-type: none"> <li>• The speakers that can be selected differ depending on the "Amp Assign" ( page 95) and "Speaker Config." ( page 95) settings.</li> <li>• Default settings : Front L / Front R / Center / Subwoofer / Subwoofer 1 / Subwoofer 2 / Front Height L / Front Height R / Front Wide L / Front Wide R : 12.0 ft (3.6 m) Surr. L / Surr. R / Surr.Back L / Surr.Back R : 10.0 ft (3.0 m)</li> <li>• Set the difference in the distance between the speakers to less than 20 ft (6.0 m).</li> </ul> <p><b>NOTE</b> Speakers set to "None" in "Speaker Config." ( page 95) are not displayed.</p>

Setting items	Setting details
<b>Channel Level</b> Set the volume of the test tone to be the same when it is output from each speaker.	<p><b>Test Tone</b> : Output test tone.</p> <ul style="list-style-type: none"> <li>• <b>Front L / Front Height L / Center / Front Height R / Front R / Front Wide R / Surround R / Surr.Back R*1 / Surr.Back L*1 / Surround L / Front Wide L / Subwoofer / Subwoofer 1*2 / Subwoofer 2*2 / Subwoofer 1+2*2</b> : Select the speaker.</li> <li>* 1 When the "Speaker Config." – "Surround Back" setting ( page 96) is set to "1 spkr", "Surr.Back" is displayed.</li> <li>* 2 When the "Speaker Config." – "Subwoofer" setting ( page 96) is set to "2 spkr", "Subwoofer 1", "Subwoofer 2" and "Subwoofer 1+2" are displayed.</li> </ul> <ul style="list-style-type: none"> <li>• <b>–12.0dB – +12.0dB (0.0dB)</b> : Adjust the volume.</li> </ul> <p></p> <ul style="list-style-type: none"> <li>• After aligning both the distances and levels of subwoofer 1 and subwoofer 2, please adjust subwoofer 1+2. These parameters affects the volume of subwoofer 1+2.</li> <li>• By clicking ◀ ▶, the volume of both subwoofer 1 and subwoofer 2 moves down or up together.</li> <li>• If one of subwoofer1 or subwoofer 2 reaches ±12.0 dB, then the cursors don't move further.</li> <li>• 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 66.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• Speakers set to "None" in the "Speaker Config." ( page 95) settings are not displayed.</li> <li>• When a headphones jack is inserted in the PHONES jack of this unit, the "Channel Level" is not displayed.</li> </ul> <p><b>Default</b> : The "Channel Level" settings are returned to the default settings.</p> <ul style="list-style-type: none"> <li>• <b>Yes</b> : Reset to the defaults.</li> <li>• <b>No</b> : Do not reset to the defaults.</li> </ul>






Setting items	Setting details
<b>Crossover Freq.</b> 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.	<b>40Hz / 60Hz / <u>80Hz</u> / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz</b> : Set the crossover frequency.  <b>Advanced</b> : Specify crossover frequency for each speaker. • <b>Front / Center / Surround / Surr. Back / Front Height / Front Wide</b> : Select the speaker. • <b>40Hz / 60Hz / <u>80Hz</u> / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz</b> : Set the crossover frequency.  • “Crossover Freq.” can be set when the “Bass Setting” – “Subwoofer Mode” (page 96) 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 speakers that can be set when “Advanced” is selected differ depending on to the “Subwoofer Mode” setting (page 96). • When “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.
<b>Speaker Impedance</b> Set the impedance of connected speakers.	<b>8Ω/ohms</b> : Select when the impedance of the connected speaker is 8 Ω or more. <b>6Ω/ohms</b> : Select when the impedance of the connected speaker is at least 6 Ω but less than 8 Ω. <b>4Ω/ohms</b> : Select when the impedance of the connected speaker is at least 4 Ω but less than 8 Ω.  Check the speaker impedance (Ω) shown on the back of your speakers or in the instruction manual beforehand.
<b>Front Speaker Setup</b> Set the front speakers to use for every surround mode.  <b>NOTE</b> This can be set when “Amp Assign” – “Assign Mode” is set to “Front B” (page 95).	<b>2CH DIRECT/STEREO</b> : The front speakers used in the direct, stereo and pure direct play modes (2 channel) are set in advance. • <b>A</b> : Front speaker A is used. • <b>B</b> : Front speaker B is used. • <b>A+B</b> : Both front speakers A and B are used.  <b>MULTI CH</b> : The front speakers used in modes other than the direct, stereo and pure direct play modes (2 channel) are set in advance. • <b>A</b> : Front speaker A is used. • <b>B</b> : Front speaker B is used. • <b>A+B</b> : Both front speakers A and B are used.







## HDMI Setup


Default settings are underlined.

Make settings for HDMI video/audio output.

Setting items	Setting details
<b>RGB Range</b> Set the video range of RGB output from the HDMI connector.	<b>Normal</b> : Output with RGB video range (16 (black) to 235 (white)). <b>Enhanced</b> : Output with RGB video range (0 (black) to 255 (white)).  This setting is active when using a TV equipped with a DVI terminal.
<b>Vertical Stretch</b> Expand image signal in vertical direction.	<b>ON</b> : Expand image signal in vertical direction. <b>OFF</b> : Do not expand signal in vertical direction.
<b>Auto Lip Sync</b> Make automatic compensation for timing shift in audio and video output.	<b>ON</b> : Compensated. <b>OFF</b> : Not compensated.
<b>HDMI Audio Out</b> Select HDMI audio output device.	<b>Amp</b> : Play back through speakers connected to the receiver. <b>TV</b> : Play back through TV connected to the receiver.  When the HDMI control function is activated, priority is given to the TV audio setting (page 65 “HDMI control function”).
<b>Monitor Out</b> Make settings for HDMI monitor output.	<b>Auto (Dual)</b> : The presence of a TV connected to the MONITOR 1 or MONITOR 2 terminal is detected automatically, and that TV connection is used. <b>Monitor 1</b> : A TV connected to the MONITOR 1 terminal is always used. <b>Monitor 2</b> : A TV connected to the MONITOR 2 terminal is always used.  • If both the Monitor 1 and 2 connectors are connected and “Resolution” (page 84) is set to “Auto”, the signals are output with a resolution compatible with both TV. • With “Resolution” (page 84) not set to “Auto”, check whether the TV you are using is compatible with the resolution under “HDMI Information” – “Monitor 1” and “Monitor 2” (page 107). • You can also set “Monitor Out” by pressing <b>MONITOR SELECT</b> . <b>NOTE</b> Depending on the monitor you have connected, the display may not be correct when you set to “Auto (Dual)”. In such a case, set to either “Monitor 1” or “Monitor 2”.



Setting items	Setting details
<b>HDMI Control</b> You can link operations with devices connected to HDMI and compatible with HDMI Control.	<p><b>Control</b> : Set the HDMI control function.</p> <ul style="list-style-type: none"> <li>• <b>ON</b> : Use HDMI control function.</li> <li>• <b>OFF</b> : Do not use HDMI control function.</li> </ul> <p></p> <ul style="list-style-type: none"> <li>• When a device that is not compatible with the HDMI control function is connected, set "HDMI Control" – "Control" to "OFF".</li> <li>• Please consult the operating instructions for each connected component to check the settings.</li> <li>• Refer to "HDMI control function" ( page 65) for more information about the HDMI control function.</li> </ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• <b>When "HDMI Control" – "Control" is set to "ON", it consumes more standby power.</b> If you are not using this unit for an extended period, it is recommended that you unplug the power cord from the power outlet.</li> <li>• "HDMI Control" does not work when the power to the equipment is off. Either turn power on or set to standby.</li> <li>• The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control.</li> <li>• If the "HDMI Control" – "Control" settings have been changed, always reset the power to connected devices after the change.</li> </ul> <p><b>Standby Source</b> : Sets the HDMI input source to put into standby when the power is on.</p> <ul style="list-style-type: none"> <li>• <b>Last</b> : This item is set at the last-used input source.</li> <li>• <b>HDMI1 / HDMI2 / HDMI3 / HDMI4 / HDMI5 / HDMI6 / HDMI7</b> : Put the respective input source into standby.</li> </ul> <p> "Standby Source" can be set when "HDMI Control" – "Control" is set to "ON".</p> <p><b>Control Monitor</b> : Set the HDMI MONITOR terminal to output the HDMI control signal.</p> <ul style="list-style-type: none"> <li>• <b>Monitor 1</b> : Output from the MONITOR 1 terminal.</li> <li>• <b>Monitor 2</b> : Output from the MONITOR 2 terminal.</li> </ul> <p></p> <ul style="list-style-type: none"> <li>• "Control Monitor" can be set when "HDMI Control" – "Control" is set to "ON".</li> <li>• ARC function works only with the terminal selected by "Control Monitor".</li> </ul>






Setting items	Setting details
<b>HDMI Control</b> (Continued)	<p><b>Power Off Control</b> : Links the power standby of this unit to external equipment.</p> <ul style="list-style-type: none"> <li>• <b>All</b> : If power to a connected TV is turned off independently of the input source, power to this unit is automatically set to standby.</li> <li>• <b>Video</b> : If power to a connected TV is turned off when the input source is BD / DVD / TV / SAT/CBL / DVR / GAME / V.AUX / DOCK, power to this unit is automatically set to standby.</li> <li>• <b>OFF</b> : This unit does not link with power to a TV.</li> </ul> <p> "Power Off Control" can be set when "HDMI Control" – "Control" is set to "ON".</p>



## Audio Setup





**Default settings are underlined.**




Make settings for audio playback.

Setting items	Setting details
<b>EXT. IN Setup</b> Setup playback method for analog signals inputted from external input connectors (EXT. IN).	<p><b>Subwoofer Level</b> : Set playback level of subwoofer signal input from the external input connector (EXT. IN).</p> <ul style="list-style-type: none"> <li>• <b>+15dB</b> : This is the recommended level.</li> <li>• <b>+10dB / +5dB / 0dB</b> : Select the level according to the player being used.</li> </ul>
<b>2ch Direct/Stereo</b> Select the method for setting the speakers used in the 2-channel direct and stereo playback modes.	<p><b>Setting</b> : Select the method for setting the speakers used in the 2-channel direct and stereo playback modes.</p> <ul style="list-style-type: none"> <li>• <b>Basic</b> : The settings at "Speaker Setup" ( page 93) are applied.</li> <li>• <b>Custom</b> : Make separate settings for 2-channel. Make the following settings:</li> </ul> <p><b>Front</b> : Set the front speaker size.</p> <ul style="list-style-type: none"> <li>• <b>Large</b> : Use a large speaker that can adequately play back low frequencies.</li> <li>• <b>Small</b> : Use a small speaker that has inadequate playback capacity for low frequencies.</li> </ul> <p> If "Speaker Config." – "Subwoofer" ( page 96) is set to "None", the setting is automatically set to "Large".</p> <p><b>Subwoofer</b> : Set the presence of a subwoofer.</p> <ul style="list-style-type: none"> <li>• <b>Yes</b> : Use a subwoofer.</li> <li>• <b>No</b> : Select when a subwoofer is not connected.</li> </ul> <p> If "Speaker Config." – "Subwoofer" ( page 96) is set to "None", the setting is automatically set to "No". If the "Front" setting is "Small", the setting is automatically "Yes".</p>





Setting items	Setting details
<b>2ch Direct/Stereo</b> (Continued)	<p><b>SW Mode</b> : Select low range signals to be reproduced by subwoofer.</p> <ul style="list-style-type: none"> <li>• <b>LFE</b> : When the “2ch Direct/Stereo” – “Front” setting is set to “Large”, the LFE signal alone is output from the subwoofer. Also, when the “2ch Direct/Stereo” – “Front” setting is set to “Small”, the front channel low range signal is added to the LFE signal output from the subwoofer.</li> <li>• <b>LFE+Main</b> : The front channel low range signal is added to the LFE signal output from the subwoofer.</li> </ul> <p> This setting can be set made “2ch Direct/Stereo” – “Subwoofer” is set to “Yes”.</p> <p><b>Crossover</b> : Set the maximum frequency of the bass signal output from each channel to the subwoofer.</p> <ul style="list-style-type: none"> <li>• <b>40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz</b></li> </ul> <p> This setting can be set made “2ch Direct/Stereo” – “Subwoofer” is set to “Yes”.</p> <ul style="list-style-type: none"> <li>• If the “2ch Direct/Stereo” – “Front” setting is “Large” and the “Subwoofer Mode” setting is “LFE”, “Full Band” is displayed and the setting cannot be made.</li> </ul> <p><b>Distance FL / Distance FR</b> : Select the speaker.</p> <ul style="list-style-type: none"> <li>• <b>0.0ft – 60.0ft (12.0ft) / 0.00m – 18.00m (3.60m)</b> : Set the distance to the speaker.</li> </ul> <p> Set the difference in the distance between the speakers to less than 20 ft (6.0 m).</p> <p><b>Level FL / Level FR</b> : Select the speaker.</p> <ul style="list-style-type: none"> <li>• <b>-12.0dB – +12.0dB (0.0dB)</b> : Adjust the level of each channel.</li> </ul>
<b>Auto Surround Mode</b> Make setting for memorizing surround mode setting for each input signal type.	<p><b>ON</b> : Memorize settings. Automatically play with the last used surround mode.</p> <p><b>OFF</b> : Do not memorize settings. Surround mode does not change according to input signal.</p> <p> The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals listed below.</p> <ol style="list-style-type: none"> <li>① Analog and PCM 2-channel signals</li> <li>② Dolby Digital and DTS 2-channel signals</li> <li>③ Dolby Digital and DTS multi-channel signals</li> <li>④ LPCM and DSD Multi-channel signals</li> </ol> <ul style="list-style-type: none"> <li>• When playing in PURE DIRECT, the surround mode does not change even if the input signal is changed.</li> </ul>

Setting items	Setting details
<b>EQ Customize</b> Set so that unused equalizer settings are not displayed when <b>MULTEQ</b> is pressed.	<p><b>Audyssey</b> : Set when not using “Audyssey” equalizer.</p> <ul style="list-style-type: none"> <li>• <b>Used</b> : Use.</li> <li>• <b>Not Used</b> : Do not use.</li> </ul> <p> Set so that “Audyssey” settings can be made when Audyssey® Auto Setup is performed.</p> <p><b>Audyssey Byp. L/R</b> : Set when not using “Audyssey Byp. L/R” equalizer.</p> <ul style="list-style-type: none"> <li>• <b>Used</b> : Use.</li> <li>• <b>Not Used</b> : Do not use.</li> </ul> <p> Set so that “Audyssey Byp. L/R” settings can be made when Audyssey Auto Setup is performed.</p> <p><b>Audyssey Flat</b> : Set when not using “Audyssey Flat” equalizer.</p> <ul style="list-style-type: none"> <li>• <b>Used</b> : Use.</li> <li>• <b>Not Used</b> : Do not use.</li> </ul> <p> Set so that “Audyssey Flat” settings can be made when Audyssey Auto Setup is performed.</p> <p><b>Manual</b> : Set when not using the “Manual” equalizer.</p> <ul style="list-style-type: none"> <li>• <b>Used</b> : Use.</li> <li>• <b>Not Used</b> : Do not use.</li> </ul>



The equalizer mode in which “Not Used” is selected cannot be stored and recalled in the Quick Select function.



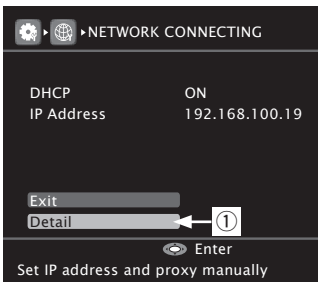
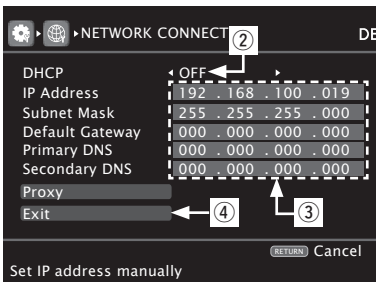


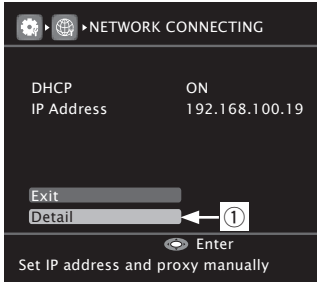
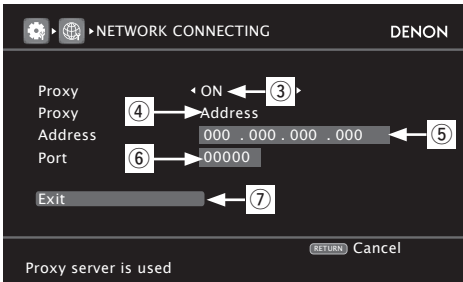


## Network Setup





Default settings are underlined.









Make network settings.

Setting items	Setting details
<b>Network Connecting</b> Make settings for wired LAN.	<ol style="list-style-type: none"> <li>Connect the LAN cable (page 26 "Connecting to a home network (LAN)").</li> <li>Turn on this unit (page 7 "Turn on power"). This unit performs automatic network setup due to the DHCP function. When connecting to a network that has no DHCP function, perform the setting in step 3.</li> <li>Set the IP address at the "Network Connecting".</li> </ol>
	  <ol style="list-style-type: none"> <li>On the menu, select "Network Connecting" – "Detail" and press <b>ENTER</b>.</li> <li>Use <math>\triangleleft \triangleright</math> to set "DHCP" to "OFF", then press <math>\nabla</math>. The DHCP function is disabled.</li> <li>Use <math>\triangle \nabla \triangleleft \triangleright</math> or <b>0-9</b> to input the address and press <b>ENTER</b>.           <ul style="list-style-type: none"> <li><b>IP Address</b> : Set the IP address within the ranges shown below. The Network Audio function cannot be used if other IP addresses are set. CLASS A: 10.0.0.0 – 10.255.255.255 CLASS B: 172.16.0.0 – 172.31.255.255 CLASS C: 192.168.0.0 – 192.168.255.255</li> <li><b>Subnet Mask</b> : When connecting an xDSL modem or terminal adapter directly to this unit, input the subnet mask indicated in the documentation supplied by your provider. Normally input 255.255.255.0.</li> <li><b>Default Gateway</b> : When connected to a gateway (router), input its IP address.</li> <li><b>Primary DNS, Secondary DNS</b> : If there is only one DNS address indicated in the documentation supplied by your provider, input it at "Primary DNS". If there are two or more DNS addresses, input the first one at "Secondary DNS".</li> </ul> </li> </ol>

Setting items	Setting details
<b>Network Connecting</b> (Continued)	<ol style="list-style-type: none"> <li>Use <math>\nabla</math> to select "Exit" and press <b>ENTER</b>. Setup is complete.</li> <li>When connecting to the network via a Proxy server, select "Proxy" and press <b>ENTER</b> (page 101 "Proxy settings").</li> </ol>   <ol style="list-style-type: none"> <li>On the menu, select "Network Connecting" – "Detail" and press <b>ENTER</b>.</li> <li>Use <math>\triangle \nabla</math> to set "Proxy" and press <b>ENTER</b>.</li> <li>Use <math>\triangleleft \triangleright</math> to set "Proxy" to "ON" and press <math>\nabla</math>. The proxy server is enabled.</li> </ol>



Setting items	Setting details
<b>Network Connecting</b> (Continued)	<p>④ Use <math>\triangleleft \triangleright</math> to select the proxy server input method, and then press <math>\nabla</math>.  <b>Address</b> : Select when inputting by address.  <b>Name</b> : Select when inputting by domain name.</p> <p>⑤ Use <math>\triangle \nabla \triangleleft \triangleright</math> or <b>0–9</b> to input the proxy server address or domain name and press <b>ENTER</b>.  When “Address” is selected in step ④ : Input the address  When “Name” is selected in step ④ : Input the domain name  • For character input, see page 78.</p> <p>⑥ Use <math>\triangle \nabla \triangleleft \triangleright</math> or <b>0–9</b> to input the proxy server port number and press <b>ENTER</b>.</p> <p>⑦ Use <math>\nabla</math> to select “Exit” and press <b>ENTER</b>.  Setup is complete.</p> 
<b>Other</b> Network function on/off setting during standby, and PC language setting.	<p><b>Network Standby</b> : Set the network function on/off during standby.  • <b>ON</b> : Network is on during standby. Main unit operable with a network compatible controller.  • <b>OFF</b> : Suspend network function during standby.</p> <p> Set to “ON” when using the web control function.</p> <p><b>NOTE</b>  When “Other” – “Network Standby” is set to “ON”, it consumes more standby power.</p> <p><b>Character</b> : When characters are not displayed correctly, set the MP3 ID3-Tag character code type reproduced by the USB memory device.  • <b>Auto</b> : Auto-select character code.  • <b>Latin</b> : Select ISO 8859-1 Latin-1.  • <b>Japanese</b> : Select Shift-JIS.</p> <p> If the characters are not properly displayed when set to “Auto”, set to “Latin” or “Japanese”.</p> <p><b>PC Language</b> : Select computer environment language.  • <b>ara / chi (smpl) / chi (trad) / cze / dan / dut / eng / fin / fre / ger / gre / heb / hun / ita / jpn / kor / nor / pol / por / por(BR) / rus / spa / swe / tur</b></p> <p><b>Friendly Name Edit</b> : The Friendly Name is the name of this unit displayed on the network. Up to 63 characters can be input. The default Friendly Name on first use is “DENON:[AVR-4311CI]”.  • For character input, see page 78.</p> <p><b>Default</b> : Restores Friendly Name, which you had changed, to the default setting.  • <b>Yes</b> : Reset to the defaults.  • <b>No</b> : Do not reset to the defaults.</p> <p><b>Party Mode Function</b> : Set the Party Mode function.  • <b>ON</b> : Enable party mode function.  • <b>OFF</b> : Disable party mode function.</p> <p> Refer to page 68, “Party mode function” for more information on the party mode function.</p>

Setting items	Setting details
<b>Other</b> (Continued)	<p><b>Party Start Level</b> : Make settings for volume level when the party mode is started.  • <b>Last</b> : The same volume as set before the party mode was started.  • <b>--dB (0)</b> : Always use the muting on condition when the party mode is started.  • <b>-80dB – 18dB (1 – 99)</b> : Start party mode with your preferred volume.</p> <p> This can be set when “Party Mode Function” is set to “ON”.  This is displayed from 0 to 99 when “Volume Display” ( page 104) is set to “Absolute”.  You can set to the upper limit set with “Volume Limit” ( page 104) .</p> <p><b>Network Status</b> : Displays up to a maximum of 10 DENON products connected on the same network.  • <b>Friendly Name / Party Mode Status / Model Name / Power ON/Standby / Select Source / Volume Level</b></p> <p> “Network Status” is only displayed for DENON products supporting the Network Status function.</p> <p><b>Update Notification</b> : Displays a notification message on this unit’s menu screen when the latest firmware is released with “Firmware Update”. The notification message is displayed for about 20 seconds when the power is turned on. Connect to broadband Internet ( page 26) when using this function.  • <b>ON</b> : Display update message.  • <b>OFF</b> : Do not display update message.</p> <p> When you press <b>ENTER</b> during display of the notification message, the “Check for Update” screen is displayed. (Refer to page 106 for more information on “Firmware Update”)  Press <b>RETURN</b> to erase the notification message.</p> <p><b>Upgrade Notification</b> : Display a notification message on this unit’s menu screen when downloadable firmware is released with “Add New Feature”. The notification message is displayed for about 20 seconds when the power is turned on. Connect to broadband Internet ( page 26) when using this function.  • <b>ON</b> : Display upgrade message.  • <b>OFF</b> : Do not display upgrade message.</p> <p> When you press <b>ENTER</b> during display of the notification message, the “Add New Feature” screen is displayed. (Refer to page 106 for more information on “Add New Feature”)  Press <b>RETURN</b> to erase the notification message.</p>



Setting items	Setting details
<b>Rhapsody Account</b> Set or change Username and Password (🔑 page 46 "Listening to Rhapsody").	<b>Username / Password / Clear</b> • For character input, see page 78.
<b>Napster Account</b> Set or change Username and Password (🔑 page 42 "Listening to Napster").	<b>Username / Password / Clear</b> • For character input, see page 78.
<b>Network Info.</b> Display network information.	<b>Friendly Name / DHCP / IP Address / MAC Address</b>



## Zone Setup

Default settings are underlined.

Set the audio to play back with multi-zone (ZONE2, ZONE3).

Setting items	Setting details
<b>Bass</b> Adjust low frequency range (bass).	<b>-10dB - +10dB (0dB)</b>
<b>Treble</b> Adjust high frequency range (treble).	<b>-10dB - +10dB (0dB)</b>
<b>HPF</b> Make settings for cutting the low range to reduce distortion in the bass.	<b>ON</b> : The low range is attenuated. <b>OFF</b> : The low range is not attenuated.
<b>Lch Level</b> Adjust the left channel output level.	<b>-12dB - +12dB (0dB)</b> 🔧 The "Lch Level" can be set when "Channel" (🔑 page 103) is set to "Stereo".
<b>Rch Level</b> Adjust the right channel output level.	<b>-12dB - +12dB (0dB)</b> 🔧 The "Rch Level" can be set when "Channel" (🔑 page 103) is set to "Stereo".
<b>Channel</b> Set the signal output from multi-zone.	<b>Stereo</b> : Select stereo output. <b>Mono</b> : Select mono output. 🔧 When "Amp Assign" - "Assign Mode" (🔑 page 95) is set to "Z2/3-MONO", the "Channel" setting is automatically set to "Mono".

Setting items	Setting details
<b>Volume Level</b> Set the volume output level.	<b>Variable</b> : Volume adjustment is enabled by main unit and remote control unit. <b>-40dB (41)</b> : Fix volume at -40 dB. Set when adjusting volume by external amplifier. <b>0dB (81)</b> : Fix volume at 0 dB. Set when adjusting volume by external amplifier. 🔧 When "Amp Assign" - "Assign Mode" (🔑 page 95) is set to "ZONE2", "ZONE2/3" or "Z2/3-MONO", the "Volume Level" setting is automatically set to "Variable".
<b>Volume Limit</b> Make a setting for maximum volume.	<b>OFF</b> : Do not set a maximum volume. <b>-20dB (61) / -10dB (71) / 0dB (81)</b> 🔧 • This can be set when the multi-zone "Volume Level" setting (🔑 page 103) is "Variable". • This is displayed from 0 to 99 when "Volume Display" (🔑 page 104) is set to "Absolute".
<b>Power On Level</b> Define the volume setting that is active when the power is turned on.	<b>Last</b> : Use the memorized setting from the last session. <b>-- -dB (0)</b> : Always mute when power is turned on. <b>-80dB - 18dB (1 - 99)</b> : The volume is adjusted to the set level. 🔧 • This can be set when the multi-zone "Volume Level" setting (🔑 page 103) is "Variable". • This is displayed from 0 to 99 when "Volume Display" (🔑 page 104) is set to "Absolute".
<b>Mute Level</b> Set the amount of attenuation when muting is on.	<b>Full</b> : The sound is muted entirely. <b>-40dB</b> : The sound is attenuated by 40 dB down. <b>-20dB</b> : The sound is attenuated by 20 dB down.





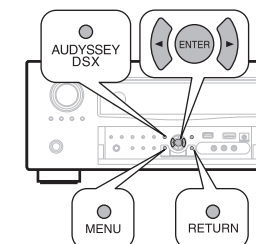
## Option Setup

Default settings are underlined.

Make various other settings.

Setting items	Setting details
<b>Volume Control</b> Set the MAIN ZONE (room where the unit is located) volume setting.	<b>Volume Display</b> : Set how volume is displayed. <ul style="list-style-type: none"> <li>• <b>Relative</b> : Display --dB (Min), in the range -80.5 dB to 18 dB.</li> <li>• <b>Absolute</b> : Display in the range 0 (Min) to 99.</li> </ul> <ul style="list-style-type: none"> <li>• The "Volume Display" setting is applied also to the "Volume Limit" and "Power On Level" display method.</li> <li>• The "Volume Display" setting applies to all zones.</li> </ul> <b>Volume Limit</b> : Make a setting for maximum volume. <ul style="list-style-type: none"> <li>• <b>OFF</b> : Do not set a maximum volume.</li> <li>• <b>-20dB (61) / -10dB (71) / 0dB (81)</b></li> </ul> <b>Power On Level</b> : Define the volume setting that is active when the power is turned on. <ul style="list-style-type: none"> <li>• <b>Last</b> : Use the memorized setting from the last session.</li> <li>• <b>-- -dB (0)</b> : Always use the muting on condition when power is turned on.</li> <li>• <b>-80dB - 18dB (1 - 99)</b> : The volume is adjusted to the set level.</li> </ul> <b>Mute Level</b> : Set the amount of attenuation when muting is on. <ul style="list-style-type: none"> <li>• <b>Full</b> : The sound is muted entirely.</li> <li>• <b>-40dB</b> : The sound is attenuated by 40 dB down.</li> <li>• <b>-20dB</b> : The sound is attenuated by 20 dB down.</li> </ul>
<b>Source Delete</b> Remove from the display input sources that are not used.	<b>PHONO / CD / BD / DVD / TV / SAT/CBL / DVR / GAME / V.AUX / DOCK / NET/USB / SIRIUS / HD Radio</b> : Select input source that is not used. <ul style="list-style-type: none"> <li>• <b>ON</b> : Use this source.</li> <li>• <b>Delete</b> : Do not use this source.</li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>NOTE</b> <ul style="list-style-type: none"> <li>• Input sources being used in the various zones cannot be deleted.</li> <li>• Input sources set to "Delete" cannot be selected using <b>SOURCE SELECT</b>.</li> </ul> </div>
<b>GUI</b> Make the settings related to displays on the TV screen.	<b>Screensaver</b> : Make screensaver settings. <ul style="list-style-type: none"> <li>• <b>ON</b> : The screensaver is activated during menu display, NET/USB, iPod, SIRIUS or HD Radio screen display if no operation is performed for an approximately 3-minute continuous period. When you press <math>\Delta \nabla \triangleleft \triangleright</math>, the screensaver is cancelled and the screen before that screen saver started is displayed.</li> <li>• <b>OFF</b> : Screensaver is not activated.</li> </ul>

Setting items	Setting details
<b>GUI</b> (Continued)	<b>Wall Paper</b> : Set wallpaper to display in the background when playback is stopped, etc. <ul style="list-style-type: none"> <li>• <b>Picture</b> : Set the background to a picture (DENON logo).</li> <li>• <b>Black</b> : Set the background to black.</li> <li>• <b>Gray</b> : Set the background to gray.</li> <li>• <b>Blue</b> : Set the background to blue.</li> </ul> <b>Format</b> : Set the video signal format to be output for the TV you are using. <ul style="list-style-type: none"> <li>• <b>NTSC</b> : Select NTSC output.</li> <li>• <b>PAL</b> : Select PAL output.</li> </ul> <p>"Format" can also be set by the following procedure. However, the menu screen is not displayed.</p> <ol style="list-style-type: none"> <li>1. Press and hold the main unit's <b>AUDYSSEY DSX</b> and <b>RETURN</b> for at least 3 seconds. "Video Format" appears on the display.</li> <li>2. Press <math>\triangleleft \triangleright</math> and set the video signal format.</li> <li>3. Press the main unit's <b>ENTER</b>, <b>MENU</b> or <b>RETURN</b> to complete the setting.</li> </ol> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>NOTE</b> <p>When a format other than the video format of the connected TV is set, the picture will not be displayed properly.</p> </div> <p><b>Text</b> : Display the details of operation when switching surround mode, input mode, etc.</p> <ul style="list-style-type: none"> <li>• <b>ON</b> : Turn display on.</li> <li>• <b>OFF</b> : Turn display off.</li> </ul> <p><b>Master Volume</b> : Display the master volume during adjustment.</p> <ul style="list-style-type: none"> <li>• <b>Bottom</b> : Display at the bottom.</li> <li>• <b>Top</b> : Display at the top.</li> <li>• <b>OFF</b> : Turn display off.</li> </ul> <p>When the master volume display is hard to see when superimposed on movie subtitles, set to "Top".</p> <p><b>NET/USB</b> : Set the NET/USB screen display time when the input source is "NET/USB".</p> <ul style="list-style-type: none"> <li>• <b>30s</b> : Show display for 30 seconds after operation.</li> <li>• <b>10s</b> : Show display for 10 seconds after operation.</li> <li>• <b>OFF</b> : Turn display off.</li> <li>• <b>Always</b> : Show display continuously.</li> </ul> <p><b>iPod</b> : Set the iPod screen display time when the input source is "DOCK" or "iPod (USB)".</p> <ul style="list-style-type: none"> <li>• <b>30s</b> : Show display for 30 seconds after operation.</li> <li>• <b>10s</b> : Show display for 10 seconds after operation.</li> <li>• <b>OFF</b> : Turn display off.</li> <li>• <b>Always</b> : Show display continuously.</li> </ul>



Setting items	Setting details
<b>GUI</b> (Continued)	<b>TUNER</b> : Set the tuner screen display time when the input source is "SIRIUS" or "HD Radio". <ul style="list-style-type: none"> <li>• <b>30s</b> : Show display for 30 seconds after operation.</li> <li>• <b>10s</b> : Show display for 10 seconds after operation.</li> <li>• <b>OFF</b> : Turn display off.</li> <li>• <b>Always</b> : Show display continuously.</li> </ul>
<b>Remote Preset Codes</b> Search a preset code to register in the remote control unit.	See "Registering preset codes" (🔧 page 108).
<b>Quick Select Name</b> Change the "Quick Select" display title to one you prefer.	<ul style="list-style-type: none"> <li>• Up to 16 characters can be input.</li> <li>• For character input, see page 78.</li> </ul>
<b>Zone Rename</b> Change the display title of each zone to one you prefer.	<ul style="list-style-type: none"> <li>• Up to 10 characters can be input.</li> <li>• For character input, see page 78.</li> </ul>
<b>Trigger Out 1 / Trigger Out 2</b> Select the condition for activating Trigger Out 1/2 for the input source, surround mode, etc. See "TRIGGER OUT jacks" (🔧 page 27) for more information on trigger out.	<b>Trigger Out 1/2</b> <input type="checkbox"/> <b>When setting for zone (MAIN ZONE / ZONE2 / ZONE3)</b> Trigger out is activated through linkage to the power of the zone set to "ON". <input type="checkbox"/> <b>When setting for input source</b> Activate trigger out when the input source set to "ON" is selected. 🔧 Active for the zone set to "ON" with "When setting for zone". <input type="checkbox"/> <b>When setting for surround mode</b> Activate trigger out when the surround mode set to "ON" is selected. 🔧 Active when the "MAIN ZONE" set to "ON" with "When setting for zone" is selected, and when the input source set to "ON" with "When setting for input source" is selected. <input type="checkbox"/> <b>When setting for HDMI monitor</b> Activate trigger out when the HDMI monitor set to "ON" is selected. 🔧 Activate trigger out when the HDMI monitor set to "ON" is selected. Active when the "MAIN ZONE" set to "ON" with "When setting for zone" is selected, and when the input source set to "ON" with "When setting for input source" is selected. <input type="checkbox"/> <b>When setting for "Vertical Stretch"</b> Activate trigger out through linkage when "Vertical Stretch" (🔧 page 98) is set to "ON". <ul style="list-style-type: none"> <li>• <b>ON</b> : Activate trigger on this mode.</li> <li>• <b>---</b> : Do not activate trigger on this mode.</li> </ul>

Setting items	Setting details
<b>Remote ID</b> Set when you operate another DENON AV amplifier with the remote control unit of this unit. Match the remote control unit you are using with the remote ID of this unit.	<b>1 / 2 / 3 / 4</b> <b>NOTE</b> When changing the remote ID, also change the remote ID of main remote control unit (RC-1145) at the same time. Also change the sub remote control unit (RC-1148) at the same time.
<b>Dimmer</b> Adjust the display brightness of this unit.	<b>Bright</b> : Normal display brightness. <b>Dim</b> : Reduced display brightness. <b>Dark</b> : Very low display brightness. <b>OFF</b> : Turns the display off.
<b>Setup Lock</b> Protect settings from inadvertent change.	<b>ON</b> : Turn protection on. <b>OFF</b> : Turn protection off. 🔧 When canceling the setting, set "Setup Lock" to "OFF". <b>NOTE</b> When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt to operate related settings. <ul style="list-style-type: none"> <li>• Menu operations</li> <li>• RESTORER</li> <li>• Dolby Volume</li> <li>• Dynamic Volume®</li> <li>• Channel Level</li> <li>• MultEQ® XT 32</li> <li>• Dynamic EQ®</li> </ul>
<b>Maintenance Mode</b> Use when receiving maintenance from a DENON service engineer or custom installer.	<b>NOTE</b> Only use this function if so instructed by a DENON serviceperson or installer.

