AV SURROUND RECEIVER

AVR-2809

Owner’s Manual
Bedienungsanleitung
Manuel de l’Utilisateur
## SAFETY PRECAUTIONS

### CAUTION:

**RISK OF ELECTRIC SHOCK DO NOT OPEN**

**CAUTION:**

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

**PRECAUTION:**

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale. La prise secteur est utilisée pour couper complètement l’alimentation de l’appareil et l’utilisateur doit pouvoir y accéder facilement.

**VORSICHT:**

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose. Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

### NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L’UTILISATION

- **Avoid high temperatures.**
  - Allowing for sufficient heat dispersion when installed in a rack.
  - Vermeiden Sie hohe Temperaturen.
  - Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
  - Éviter des températures élevées.
  - Tenir compte d’une dispersion de chaleur suffisante lors de l’installation sur une étagère.

- **Handle the power cord carefully.**
  - Hold the plug when unplugging the cord.
  - Gehen Sie vorsichtig mit dem Netzkabel um.
  - Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
  - Manipuler le cordon d’alimentation avec précaution.
  - Tenir la prise lors du débranchement du cordon.

- **Do not obstruct the ventilation holes.**
  - (For apparatuses with ventilation holes)
  - Lassen Sie das Gehäuse nicht verengen
  - Ne pas obstruer les trous d’aération.

- **Do not let foreign objects into the unit.**
  - Lassen Sie keine fremden Gegenstände in das Gerät kommen.
  - Ne pas laisser des objets étrangers dans l’appareil.

- **Do not let insecticides, benzene, and thinner come in contact with the unit.**
  - Lassen Sie das Gerät nicht mit Insektiziden, Benzinn oder Verdünnungsmitteln in Berührung kommen.
  - Ne pas mettre en contact des insecticides, du benzène et un diluant avec l’appareil.

- **Never disassemble or modify the unit in any way.**
  - Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern.
  - Ne jamais démonter ou modifier l’appareil d’une manière ou d’une autre.

### DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

- EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3.

**ÜBEREINSTIMMUNGSERKLÄRUNG**

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht:

- EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3.
- Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC.

**DECLARATION DE CONFORMITE**

Nous déclarons sous notre seule responsabilité que l’appareil, auquel se réfère cette déclaration, est conforme aux standards suivants:

- EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3.

DENON EUROPE
Division of D&M Germany GmbH
An der Landwehr 19, Nettetal,
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Basic Operation

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End of this manual
Before turning the power switch on
Check once again that all connections are correct and that there are no problems with the connection cables.

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

About condensation
If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

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

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

Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

Inserting the Batteries

1. Lift the clasp and remove the rear cover.

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

3. Put the rear cover back on.

NOTE
Re-insert the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit.
The supplied batteries are only for verifying operation.
When inserting the batteries, be sure to do so in the proper direction, following the "DOT" and "DASH" marks in the battery compartment.
To prevent damage or leakage of battery fluid:
• Do not use a new battery with an old one.
• Do not use two different types of batteries.
• Do not attempt to charge dry batteries.
• Do not short-circuit, disassemble, heat or dispose of batteries in flames.
• If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
• Remove the batteries from the remote control unit if it will not be in use for long periods.
• When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

About the Remote Control Unit
In addition to the AVR-2809, the included main remote control unit (RC-1102) can also be used to operate the equipment listed below.

DENON system components
• By setting the preset memory (page 56 – 58)
• By using the learning function (page 59)
Part Names and Functions

For buttons not explained here, see the page indicated in parentheses ( ).

Front Panel

[With the door open]

1. Power operation button (ON/STANDBY).................................................. (48)
2. Power indicator ...................................................................................... (48)
3. Power switch (OFF/ON) ........................................................................ (48)
4. QUICK SELECT buttons / indicators .................................................... (48)
5. MASTER VOLUME control knob .............................................................. (48)
6. AUDYSSEY DYNAMIC VOLUME indicator ........................................... (44)
7. HD AUDIO indicator ............................................................................ (39)
8. Master volume indicator ......................................................................
9. Display ...................................................................................................
10. Remote control sensor ................................................................. (3)
11. SOURCE SELECT knob ................................................................. (48)
12. SOURCE button ................................................................................ (48)
13. TUNING PRESET button ................................................................. (49)
14. ZONE2/3 / REC SELECT button ..................................................... (64)
15. VIDEO SELECT button ........................................................................ (35)
16. Headphones jack (PHONES) ........................................................... (48)
17. ZONE2 ON/OFF button ................................................................. (64)
18. ZONE3 ON/OFF button ................................................................. (64)
19. INPUT MODE button .......................................................................... (16, 36)
20. MENU button ......................................................................................... (19)
21. Cursor buttons (△ ▽ ◀ ◄) ............................................................... (19, 55)
22. CH SEL / ENTER button ................................................................. (19, 55)
Audyssey Dynamic Volume™ solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies.

Audyssey Dynamic EQ™ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

### About Dynamic EQ
Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ® XT to provide well-balanced sound for every listener at any volume level.

### About Dynamic Volume
Audyssey Dynamic Volume™ solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies.

### Input signal indicators
These light when digital signals are input.

### Input signal channel indicators
These light when digital signals are input.

### Information display
The input source name, surround mode, setting values and other information are displayed here.

### Output signal channel indicators
These light according to the settings of the front A and B speakers.

### Multi-zone indicators
These light when the power for the respective zone is turned on.

### Master volume indicator
These light according to the settings of the front A and B speakers.

### Front speaker indicator
These light according to the settings of the front A and B speakers.

### Multi-zone indicators
These light when the power for the respective zone is turned on.

### Master volume indicator
These light when the power for the respective zone is turned on.

### Night mode indicator
This lights when the night mode is selected.

### Recording output source indicator
This lights when the REC OUT mode is selected.

### Recording output source indicator
This lights when the recording output source is selected.

### TUNER indicator
This lights when the TUNER mode is selected.

### Tuner reception mode indicators
This lights according to the reception conditions when the input source is set to “TUNER”.
- **AUTO**
  - This lights when in the auto tuning mode.
- **STEREO**
  - In the FM mode, this lights when receiving analog stereo broadcasts.
- **TUNED**
  - This lights when the broadcast is properly tuned in.
- **RDS**
  - This lights when receiving RDS broadcasts.
Remote Control Unit

Main remote control unit (RC-1102)

1. Signal transmission indicator
2. Mode select buttons
3. Quick select / System call buttons
4. DYNAMIC VOLUME button (DYN)
5. MultEQ XT button (EQ)
6. Surround mode buttons
7. System buttons
8. Audio delay button (A. DL)
9. Tuner system buttons
10. Input mode button (INPUT)
11. Menu / Search button (MENU / SRCH)
12. Cursor buttons
13. RESTORER button (RSTR)
14. HOME button
15. Channel buttons (CH)
16. Input source select / Number buttons
17. Remote control signal transmitter
18. Device select indicators (DEV1 / DEV2)
19. ZONE3 select indicators (Z3)
20. Night button (NGT)
21. Test tone button (TEST)
22. Front speaker select button (SPKR)
23. POWER buttons
24. Channel select (CH SEL) / ENTER button
25. Return button (RTN)
26. Master volume control buttons (VOL)
27. Muting button (MUTE)
28. Main remote control unit setup button (RC SETUP)

Sub remote control unit (RC-1106)

1. Remote control signal transmitter
2. Zone power off button (OFF)
3. CHANNEL buttons
4. TUNING buttons
5. System buttons
6. REPEAT button
7. RANDOM button
8. ZONE2/ZONE3 select switch
9. Zone power on button (ON)
10. Input source select buttons
11. Volume control buttons (VOLUME)
12. Muting button (MUTE)
13. SHIFT button

The time for which the backlight stays on can be changed (page 61 “Setting the Time the Backlight Stays Lit”).

NOTE
- The M. SEL, NET/USB, SAT TU1 and SAT TU2 buttons cannot be used.
- The ZONE2 mode QUICK SELECT (1 ~ 3), A.DL, NGT, INPUT, SPKR, TEST and surround mode buttons cannot be used.
- The ZONE4 mode cannot be used.
- The FAVORITES DIRECT PLAY button can function when the control dock for iPod ASD-3N/3W is used.

NOTE
The DTU, SAT TU1 and SAT TU2 buttons cannot be used.
Connections

Connections for all compatible audio and video signal formats are described in these owner’s manuals. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-2809. For details, refer to the instructions for the respective connection items below.

**NOTE**

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

## Cables Used for Connections

Select the cables according to the equipment being connected.

### Audio cables

<table>
<thead>
<tr>
<th>Connections</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coaxial digital connections</td>
<td><img src="" alt="Coaxial Digital" /></td>
</tr>
<tr>
<td>Optical digital connections</td>
<td><img src="" alt="Optical" /></td>
</tr>
<tr>
<td>Analog connections (stereo)</td>
<td><img src="" alt="Analog Stereo" /></td>
</tr>
<tr>
<td>Analog connections (monaural, for subwoofer)</td>
<td><img src="" alt="Analog Monaural" /></td>
</tr>
<tr>
<td>Speaker connections</td>
<td><img src="" alt="Speaker" /></td>
</tr>
</tbody>
</table>

### Video cables

<table>
<thead>
<tr>
<th>Connections</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component video connections</td>
<td><img src="" alt="Component Video" /></td>
</tr>
<tr>
<td>S-Video connections</td>
<td><img src="" alt="S-Video" /></td>
</tr>
<tr>
<td>Video connections</td>
<td><img src="" alt="Video" /></td>
</tr>
<tr>
<td>Audio and video cables</td>
<td><img src="" alt="Audio and Video" /></td>
</tr>
</tbody>
</table>

### Signal direction

| Audio signal:                                    | ![Audio Direction](attachment:image) |
| Video signal:                                    | ![Video Direction](attachment:image) |

---

**Preparations**

Select the cables according to the equipment being connected.
**Video Conversion Function**

- This function automatically converts various formats of video signals input to the AVR-2809 into the format used to output the video signals from the AVR-2809 to a monitor.
- The AVR-2809’s video input/output circuitry is compatible with the following four types of video signals: Digital video signals: HDMI
  Analog video signals: Component video, S-Video and Video

---

**Flow of video signals inside the AVR-2809**

- HDMI connector
- Component video connectors
- S-Video connector
- Video connector

---

**NOTE**

- When not using this function, connect a monitor output with the same type of connector as the video input connector.
- The resolution of the HDMI input-compatible monitor connected to the AVR-2809 can be checked at menu “Information” – “HDMI Information” (page 47).

**On-Screen Display for Component Video Outputs and HDMI Output**

- When viewing HDMI or component video signals via the AVR-2809, the on-screen display appears when the MENU button is operated.
- When only HDMI or component video signals are input to the AVR-2809, the characters of the on-screen display are not displayed over the picture.

---

**Speaker Connections**

**Speaker Installation**

The illustration below shows a basic example of installation of the amplifier combined with 8 speakers and a monitor.

- **Subwoofer**
- **Center speaker**
- **Surround back speakers**
- **Surround speakers**
- **Front speakers**

Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.

The table below shows a typical speaker configuration for the AVR-2809.

<table>
<thead>
<tr>
<th>FRONT</th>
<th>CENTER</th>
<th>SURROUND</th>
<th>SURROUND BACK</th>
<th>SUBWOOFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1-channels (FRONT A+B)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>7.1-channels</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>6.1-channels</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>5.1-channels</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>3.1-channels</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>2.1-channels</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>2-channels</td>
<td>○</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
**Speaker Connections**

Example: 5.1 / 7.1-channels

- **Front speakers A**
  
- **Center speaker**

- **Subwoofer**
  With built-in amplifier

- **Surround speakers**

- **Surround back speakers**
  When surround back speakers are connected.

---

**Connecting the Speaker Cables**

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-2809, and be sure to interconnect the channels and polarities correctly.

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

2. Turn the speaker terminal counterclockwise to loosen it.

3. Insert the speaker cable’s core wire to the hilt into the speaker terminal.

4. Turn the speaker terminal clockwise to tighten it.

**NOTE**

- Use speakers with an impedance of 6 to 16 Ω/ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 8 to 16 Ω/ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other ("Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

---

**Protection circuit**

If the core wires touch the rear panel and the screws etc., or the ± sides touch each other, the protection circuit will be activated and the power indicator will flash red at intervals of 0.5 secs.

If the protection circuit is activated, the speaker output is isolated, and the power supply goes to the standby state. If the power supply is turned off, after the power supply cord is withdrawn, please confirm that speaker cable and input cable are connected.

Also, if replaying large sound levels by using a speaker having an impedance less than that specified (e.g., 4 Ω/ohms), the temperature will rise, and the protection circuit might be activated. The power supply will go into the standby state, and the power indicator will flash red at 2 second intervals.

In this case, please switch off the power supply, and wait until the AVR-2809 has cooled down, and the surrounding ventilation is good.

Even if there are no problems with the surrounding ventilation and connections, in the event of the protection circuit becoming activated, due to thinking that the AVR-2809 has failed, please contact DENON Service center after switching off.

---

**NOTE**

- For surround back speakers:
  - When using just one surround back speaker, connect it to the left channel (SBL).

- For ZONE2 / ZONE3 speakers:
  - When outputting audio from the surround back speakers with ZONE2 or ZONE3, set to “ZONE2” or “ZONE3” with “Manual Setup” – “Option Setup” – “Amp Assign” from the menu. For multi-zone connection and operation, see “Amp Assign / Multi-zone Connections and Operations” (page 62, 63).
Connecting Equipment with HDMI Connectors

With HDMI connections, the video and audio signals can be transferred with a single cable.

The AVR-2809 is equipped for HDMI version 1.3a. This version is compatible with other versions, allowing connection to all components equipped with an HDMI connector.

The AVR-2809 is compatible with 30- and 36-bit Deep Color.

### Compatible audio format

<table>
<thead>
<tr>
<th>Details</th>
<th>Discs (examples)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2channel linear PCM</td>
<td>2ch 32-192 kHz 16/20/24 bits CD, DVD-Video, DVD-Audio</td>
</tr>
<tr>
<td>Multi-channel linear PCM</td>
<td>8ch 32-192 kHz 16/20/24 bits DVD-Audio, Blu-ray</td>
</tr>
<tr>
<td>Dolby Digital, DTS Bitstream</td>
<td>DVD-Video</td>
</tr>
<tr>
<td>DSD</td>
<td>2/5.1ch 2.8224 MHz 1 bit SACD</td>
</tr>
<tr>
<td>Dolby Digital Plus, Dolby TrueHD, DTS-HD Bitstream</td>
<td>Blu-ray</td>
</tr>
</tbody>
</table>

When connecting with an HDMI/DVI converter cable (adapter)

- HDMI video signals are theoretically compatible with the DVI format.
- When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.
- When using an HDMI/DVI converter adapter, the video signals may not be output properly due to poor connections with the connected cable, etc.

**NOTE**

- The audio signals output from the HDMI connector (sampling frequency, bit rate, etc.) may be restricted by the connected device.
- Video signals are not output properly when using devices that are not HDCP-compatible.
- Video signals are not output if the input video signals do not match the monitor’s resolution. In this case, switch the Blu-ray Disc player / DVD player’s resolution to a resolution with which the monitor is compatible.
- If the menu “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” setting (page 28) is set to “AMP”, the sound may be interrupted when the monitor’s power is turned off.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or Blu-ray Disc player / DVD player does not support Deep Color, deep color signal transfer is not possible.
- If the monitor or Blu-ray Disc player / DVD player does not support xvYCC, xvYCC signal transfer is not possible.
- If the monitor does not support Auto Lipsync Correction function, this function will not work.
- The AVR-2809 is compatible with the HDMI’s CEC (Consumer Electronics Control) function. Please note the following.
  - It may not work depending on the device it is connected to and its setup.
  - It does not operate with televisions or players that are not compatible with HDMI’s CEC.
- When the AVR-2809 and Blu-ray Disc player / DVD player are connected using an HDMI cable, also connect the AVR-2809 and monitor using an HDMI cable.
- If the connected monitor or Blu-ray Disc player / DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. **When using a DVI cable, no audio signals are transmitted.**
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

**Copyright protection system (HDCP)**

In order to play the digital video and audio signals of a Blu-ray, DVD-Video or DVD-Audio disc using HDMI/DVI connections, both the connected Blu-ray Disc player / DVD player and monitor must be equipped for a copyright protection system called “HDCP” (High-bandwidth Digital Content Protection).

HDCP is a copy protection technology consisting of data encoding and mutual identification of the devices.

The AVR-2809 is HDCP-compatible. For details on the Blu-ray Disc player / DVD player or monitor you are using, refer to its operating instructions.
Connecting the Monitor

- Select the terminal to use and connect the device (page 9 “Video Conversion Function”).
- With HDMI connections, the video and audio signals can be transferred with a single cable.
- To output the audio signals to the monitor with HDMI connections, set menu “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” to “TV” (page 28).
- When you want to listen to TV audio by AVR-2809, connect optical digital or analog. If the TV you are using has both connection jacks, use the optical digital connection.

Connecting the Playback Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Blu-ray Disc Player / DVD Player

Select the terminal to use and connect the device.
- When connected to a Blu-ray Disc player, and playing Dolby TrueHD, DTS-HD, Dolby Digital Plus, connect the HDMI.

NOTE

- The component video connectors may be indicated differently on your monitor. For details, see the monitor’s operating instructions.
- The audio signals output from the HDMI connectors are only the HDMI input signals.

When using an optical cable for the digital audio connection, make the settings at menu “Input Setup” – “Assign” – “Digital In” (page 37).
Record Player

- When connecting a record player with an MC cartridge, use a commercially available MC head amplifier or a step-up transformer.
- Induction humming (a booming sound) may be produced from the speakers if the volume is raised with no record player connected.
- With some record players, noise may be generated when the ground wire is connected. If so, disconnect the ground wire.

NOTE

The AVR-2809’s SIGNAL GND terminal is meant to reduce noise when a record player is connected. This is not a safety ground terminal.

CD Player

When using an optical cable for the digital audio connection, make the settings at menu “Input Setup” – “Assign” – “Digital In” (page 37).

iPod

Use a DENON control dock for iPod (ASD-1R, ASD-3N or ASD-3W sold separately) to connect the iPod to the AVR-2809. For instructions on the control dock for iPod settings, refer to the control dock for iPod’s operating instructions.

- With the default settings, the iPod can be used connected to the VCR iPod connector.
- To assign the iPod to a connector other than VCR iPod, make the settings at menu “Input Setup” – “Assign” – “iPod Dock assigned” – “Assign” – “iPod Dock” (page 37).
**TV/CABLE Tuner**

Select the terminal to use and connect the device.

When using a coaxial cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (page 37).

---

**Satellite Receiver**

Select the terminal to use and connect the device.

- When using an optical digital cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (page 37).
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (page 37).
Connecting the Recording Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Digital Video Recorder

Select the terminal to use and connect the device.

- Make analog connections if you wish to record analog audio signals.
- When recording via the AVR-2809, the playback device’s cable must be of the same type as the cable used to connect the AVR-2809’s DVR OUT connector.
  **Example:** TV IN → S-Video cable : DVR OUT → S-Video cable
  TV IN → Video cable : DVR OUT → Video cable
- When using a component video cable for the video connection, make the settings at menu “Input Setup” – “Assign” – “Component In” (page 37).

**NOTE**

Do not connect the output of the component connected to the AVR-2809’s OPTICAL2 output connector to any input connector other than OPTICAL2.
**Connections to Other Devices**

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

**Video Camera / Game Console**

- **Component with Multi-channel Output Connectors**

- **Blu-ray Disc player / DVD player / External decoder**

- **Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.**

**Video Camera / Game Console**

- **Example:** CD IN → Analog cable : VCR OUT → Analog cable

**Component with Multi-channel Output Connectors**

- **Example:** BLU-RAY DISC player / DVD player / External decoder

- **Note:** To play the analog input signals input to the EXT. IN connectors, press the INPUT MODE button on the main unit or INPUT button on the main remote control unit and select “EXT. IN” or make the settings at menu “Input Setup” → “Input Mode” → “Input Mode” → “EXT. IN” (page 36).

- **Note:** The video signal can be connected in the same way as a Blu-ray Disc player / DVD player (page 12).
Antenna Terminals

An FM antenna cable plug can be connected directly.

Direction of broadcasting station

- **FM antenna**
- **AM loop antenna (supplied)**

<table>
<thead>
<tr>
<th>AM loop antenna assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Remove the vinyl tie and take out the connection line.</td>
</tr>
<tr>
<td>② Bend in the reverse direction.</td>
</tr>
<tr>
<td>③ a. With the antenna on top of any stable surface.</td>
</tr>
<tr>
<td>b. With the antenna attached to a wall.</td>
</tr>
</tbody>
</table>

Connection of AM antennas

1. Push the lever.
2. Insert the conductor.
3. Return the lever.

**NOTE**

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

External Power Amplifier

When using just one surround back speaker, connect it to the left channel (SBL).
**Multi-zone**

**ZONE2 or ZONE3 Pre-out Connections**

- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 or ZONE3 pre-out (variable or fixed level) connectors can be used to play a different program source in ZONE2 or ZONE3 at the same time (page 62 ~ 64).
- When using an S-Video cable or a video cable for connection between the AVR-2809 and an input device, connect to the video connectors.
- The ZONE2 video out is only for ZONE2.

**NOTE**

- For the audio output, use high quality pin-plug cords so that no induction humming or noise is produced.
- For instructions on installing and operating separately sold devices, refer to the respective devices’ operating instructions.
- To conduct multi-zone playback, see “Amp Assign / Multi-zone Connections and Operations” (page 62, 63).

**External Controller**

**RS-232C connector**

This connector is used for an external controller.

- If you wish to control the AVR-2809 from an external controller using the RS-232C connector, perform the operation below beforehand.
  1. Turn on the AVR-2809's power.
  2. Turn off the AVR-2809’s power from the external controller.
  3. Check that the AVR-2809 is in the standby mode.

- When using in combination with an RF Remote Controller (RC-7000CI, sold separately) or RF Remote Receiver (RC-7001RCI, sold separately) two-way communication with an RF Remote Controller is possible. The AVR-2809’s status information as well as iPod can be browsed watching the RF Remote Controller’s display. For details, refer to the operating instructions of the respective devices.
Connecting the Power Cord

Wait until all connections have been completed before connecting the power cord.

NOTE
• Insert the AC plugs securely. Incomplete connections could cause noise.
• Only use the AC outlet to plug in audio equipment. Do not use them as power supplies for hairdryers or anything other than audio equipment.

Connection to the AC outlet
- This outlet supply power to external audio devices.
- The power supplied from this outlet turns on and off together with the set's power switch.
- Audio equipment with a total power consumption of 100 W (0.43 A) can be connected.

Once Connections are Completed

Turning the Power On (page 48)

Menu Operations

With the AVR-2809, settings and operations for most functions can be performed by operating while looking at the menus displayed on the monitor screen.

Operations

The same operation is possible on the main unit or main remote control unit.

1. Press MENU. The menu is displayed.
   ※ To operate from the main remote control unit, be sure to set the remote control unit to the AMP mode.

2. Press △ to select the item you want to set, then press ENTER.

3. Press △ again to select the item you want to set, then press ENTER.

4. To change the setting:
   Press △ to select the item you want to change, then press ○ to change the setting.
   ※ To return to the previous item, press RETURN.
   ※ Select “Default Yes”, then press ○ to reset to the default setting.

5. Press ENTER to enter the setting.

6. Press MENU to finish.

When MENU is pressed, the settings made up to that point are entered and the settings menu screen turns off.
Example of Display of Default Values

In lists of selectable items or adjustable ranges, the item surrounded by a border is the default value.

Selectable items: A B A+B

Examples of On-screen Display and Front Display

Some typical examples are described below.

[Front display]

Screen title

Submenu title

Press < to execute

Currently selected line

Press ▲ to change the setting

Use ▲▼ to input characters.

Use ▲ to change the character input position.

When highlighted, press ▼ to select “Default Yes”.

The selected setup menu number is shown in the master volume indicator section of the display.
Menu Map

Auto Setup (page 22 – 25)
- Start Menu
  - Step 1: Speaker Detection
  - Step 2: Measurement
  - Step 3: Calculation
  - Step 4: Check
  - Step 5: Store
- Parameter Check
  - Speaker Configuration Check
  - Distance Check
  - Channel Level Check
  - Crossover Frequency Check
  - EQ Check
  - Restore

Manual Setup (page 26 – 33)
- Speaker Setup (page 26 – 28)
  - Speaker Configuration
  - Subwoofer Setup
  - Distance
  - Channel Level
  - Crossover Frequency
  - Front Speaker Setup
- HDMI Setup (page 28, 29)
  - Color Space
  - RGB Range
  - Auto Lipsync
  - HDMI Audio Out
  - HDMI Control
  - Power Off Control
- Audio Setup (page 29, 30)
  - EXT. IN Subwoofer Level
  - 2ch Direct/Stereo
  - Dolby Digital Setup
  - Auto Surround Mode
  - EQ Preset
- Zone Setup (page 30, 31)
  - ZONE2 Setup
  - ZONE3 Setup
- Option Setup (page 31 – 33)
  - Amp Assign
  - Volume Control
  - Source Delete
  - On-Screen Display
  - Quick Select Name
  - Trigger Out
  - Remote ID Setup
  - 232C Port
  - Display
  - Setup Lock

Input Setup (page 34 – 38)
- TUNER (FM/AM)
  - Auto Preset
  - Preset Skip
  - Preset Name
  - Video
  - Input Mode
  - Rename
  - Source Level
- PHONO
  - Video
  - Input Mode
  - Rename
  - Source Level
- iPod
  - CD, DVD, HDP, TV/ CBL, SAT, VCR, DVR, AUX,
  - Assign
  - Video
  - Input Mode
  - Rename
  - Source Level
  - iPod

Parameter (page 40 – 45)
- Surround Parameter
  - Mode
  - Cinema EQ
  - DRC
  - Dynamic Range Compression
  - LFE
  - Center Image
  - Panorama
  - Dimension
  - Center Width
  - Delay Time
  - Effect
  - Effect Level
  - Room Size
  - AFDM
  - SB CH Out
  - SW ATT
  - Subwoofer
- Tone
  - Tone Control
  - Bass
  - Treble
- Audyssey Settings
  - MultEQ XT
  - Dynamic EQ
  - Dynamic Volume
  - Setting
- RESTORER
- Night Mode
- Audio Delay

Information (page 46, 47)
- Status
  - MAIN ZONE
  - ZONE2
  - ZONE3
- Audio Input Signal
- HDMI Information
- Auto Surround Mode
- Quick Select
- Preset Station

Parameter

Information
Auto Setup

Preparations

1. Connect the included calibrated setup microphone to the SETUP MIC jack on the main unit.
   The auto setup screen appears automatically.

2. Place the microphone at ear height on a tripod or stand with the microphone pointing directly up towards the ceiling.

   *Do not hold the microphone in your hand during measurements. Be sure that the path from microphone to the speakers is not blocked by objects. Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

About the main listening position (*M)

The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ XT uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

To make manual adjustments to the settings, see pages 26 – 28.

When using a subwoofer, make the following settings before starting the auto setup procedure:

- Defeat the volume and crossover controls if possible
- If this is not possible then set
  - Volume: “12 o’clock” position
  - Crossover frequency: “Maximum/Highest Frequency”
  - Low pass filter: “Off”
  - Standby mode: “Off”

**NOTE**

- Do not disconnect the setup microphone until the auto setup procedure is completed.
- When using headphones, unplug the headphones before starting the auto setup procedure.

- Audyssey MultEQ® XT automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- Audyssey MultEQ XT optimizes a large listening area where one or more listeners are seated.

Measurements are performed by placing the calibrated microphone (DM-A409) successively at multiple positions throughout the listening area as shown in Example ①. For best results, it is strongly recommended to measure 6 positions so that the measurements have the proper spatial weighting.

Even if the listening environment is small as shown in Example ②, measuring at multiple points throughout the listening environment results in more effective correction.

To make manual adjustments to the settings, see pages 26 – 28.

Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit
- Button only on the main unit
- Button only on the remote control unit

- Audyssey MultEQ® XT automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- Audyssey MultEQ XT optimizes a large listening area where one or more listeners are seated.
About the Auto Setup

The Audyssey MultEQ XT auto setup function detects the presence of each speaker and automatically calculates the speaker size, channel level, distance, and optimal crossover frequency setting. Audyssey MultEQ XT corrects acoustical distortions within the listening area.

Before starting, connect and position all of your speakers. Once started, MultEQ XT will play a series of test tones through each speaker.

Before starting Auto Setup

If adjustment to the environment is necessary, set the following items before proceeding.

Front Speaker

The front speaker to be measured can be selected ahead of time here.

[Selectable items]

- A: Output test tone from front speakers A.
- B: Output test tone from front speakers B.
- A+B: Output test tone from front speakers A and B.

Amp Assign

Advanced setting: changes power amplifier assignment. You can use the surround back speaker for multi-zone, and for front channel bi-amp use. (Default: 7.1ch)

For details, refer to "Amp Assign" (page 31).

The speaker connection and polarity are detected at the first measurement position (main listening position). The following attributes are also determined at this time: "Speaker Size", "Speaker Distance", "Channel Level", "Crossover Frequency".

Select “Start ”, then press.

Select “Next ”, then press.

To cancel Auto Setup

Press ▼ to select “Cancel ”, then press ▼.

- If an error message appears during the measurements, check “Error Messages”, take the advised action, then start the measurements again (page 25).
- If the result differs from the actual connection status or an error message appears, use ▼ to on-screen display “Retry ” and then press ▼ to repeat the measurement.
- If the result still differs from the actual connection status after re-measurement or the error message still appears, it is possible that the speakers are not connected properly. Turn the AVR-2809 off, check the speaker connections and repeat the measurement process from the beginning.

Do not change the speaker connections or subwoofer volume after “Step 1”.

NOTE

- Loud test sounds may be played during Audyssey MultEQ XT automatic speaker setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds.
- Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).
- Operating MASTER VOLUME during the measurements will cancel the measurements.
Step 2: Measurement

1. Select “Next ▼”, then press ◄.
   - The measurement of the 2nd position starts.
   - Select “Calculate ▲” with ▲, and press ◄ to proceed to Step 3.
2. Move the microphone to the 3rd position and press ◄.
   - The measurement of the 3rd position starts.
   - Select “Calculate ▲” with ▲, and press ◄ to proceed to Step 3.
3. Perform repeatedly through the 6th position or more. A maximum of 8 positions can be measured.
4. “All the measurements were finished.” is displayed on the on-screen display when you have completed measurements in 8th positions.
   - Select “Calculate ▲”, and press ◄ to proceed to Step 3.

To cancel Auto Setup
Press △ ▼ to select “Cancel ▲”, then press ◄.

After completing a measurement position, move the microphone to the next position.
Measure at least 6 positions: the main listening position and 5 other surrounding positions. Although it is allowable to measure less than 6 positions, it is recommended to measure 6 or more positions (with a maximum of 8 positions) for best results.

Step 3: Calculation

1. Select “Calculate ▲” at Step 2, then press ◄.
   - Analysis begins.
   - Analysis takes several minutes to complete.
   - The time required for this analysis depends on the number of speakers connected. The greater the number of speakers connected, the longer analysis will take.

NOTE
- Do not change the speaker connections or subwoofer volume, or speaker locations after making measurements. If changes are necessary, make the changes and use Audyssey MultEQ XT auto setup once again for an updated EQ solution.
- For instance, if the location or direction of a speaker is altered, the Auto Setup should be performed again to ensure the correct EQ solution for the new room configuration.

Step 4: Check

1. Make your selection using ▲ ▼ and press ENTER.
   - Presence and size of speaker “Speaker Config. Check”
   - Distance of speaker from listening position “Distance Check”
   - Speaker channel level “Channel Level Check”
   - Crossover Frequency “Crossover Freq. Check”

2. Use ▲ ▼ to change which speaker is displayed.
3. Press RETURN.
   - This returns you to analysis results items, so repeat Step 1.
4. Press ▼ to select “Next ▲”, then press ◄ to proceed to Step 5.

Distance values that are greater than the actual distance of a speaker may be accurate for speakers with built-in filters (subwoofers, etc). This is because these filters add electrical delay (distance) to the signal that is compensated for by the Auto Setup process.

When analysis is complete, check the analysis results for the following four items:
1. “Speaker Config. Check”
2. “Distance Check”
3. “Channel Level Check”
4. “Crossover Freq. Check”

The values obtained from the measurements are automatically analyzed and the attributes for each of the speakers in the listening area are determined.
1. Select “Next ▼” at Step 2, then press ◄.

NOTE
- If the measurement of a speaker is removed or the speaker is not connected, the attribute will not be determined.
Step 5: Store

The auto setup measurement results are stored in the AVR-2809.

1. Select “Store”, then press ◄.
   - “Storing Please wait...” is displayed on the on-screen display while the results are being stored.
   - When storing is complete, “Storing complete. Auto Setup is now finished.” is displayed on the on-screen display.
2. Select “Exit”, then press ENTER.
3. Disconnect the setup microphone from the AVR-2809.

To cancel storing
Press △▼ to select “Cancel ◄”, then press ◄.
- All the measured auto setup data will be erased.

NOTE
Do not turn the power off while the settings are being stored.

2 Parameter Check
Check auto setup measurement results.
This is displayed after the auto setup procedure is completed.

[Selectable items]
Speaker Config. Check  Distance Check
Channel Level Check  Crossover Freq. Check
EQ Check

The auto setup results can be set again when “Restore” is selected.

NOTE
Select “Retry” to measure again.
Be sure to turn the power off before checking the speaker connections.

Error Messages
If the auto setup procedure could not be completed due to speaker installation, the measuring environment, etc., an error message is displayed. If this happens, check the relevant items, be sure to take the necessary measures, then perform the auto setup procedure over again.

<table>
<thead>
<tr>
<th>Error messages (examples)</th>
<th>Cause</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Included setup microphone is not connected.</td>
<td>• Connect the included setup microphone to the SETUP MIC jack on the main unit.</td>
<td></td>
</tr>
<tr>
<td>• Not all speakers could be detected.</td>
<td>• Check the speaker connections.</td>
<td></td>
</tr>
<tr>
<td>• The front L speaker was not properly detected.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Too much noise in the room for accurate measurements to be made.</td>
<td>• Either turn off any device generating noise or move it away.</td>
<td></td>
</tr>
<tr>
<td>• Speaker or subwoofer sound is too low for accurate measurements to be made.</td>
<td>• Try again when the surroundings are quieter.</td>
<td></td>
</tr>
<tr>
<td>• Displayed speaker could not be detected.</td>
<td>• Check the connections of the displayed speaker.</td>
<td></td>
</tr>
<tr>
<td>• The front R speaker were not properly detected.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Only one channel of the surround speakers was detected.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Sound was output from the R channel when only one surround back speaker was connected.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• The surround back, but the surround speaker was not detected.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Displayed speaker connected with the polarities reversed.</td>
<td>• Check the polarities of the displayed speaker.</td>
<td></td>
</tr>
<tr>
<td>For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure that the wiring is correct, select “Skip”.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Getting Started  Connections  Setup  Playback  Remote Control  Multi-zone  Information  Troubleshooting  Specifications
Make detail settings for various parameters.

**Speaker Setup**
Use this procedure to set the speakers manually or if you wish to change the settings made with the auto setup procedure.

![Menu screen](image)

### Speaker Configuration
Select speaker configuration and size.
(bass reproduction capability)

**Front Speaker**
Select front speaker size.

- **[Selectable items]**
  - Large
  - Small

**Center Speaker**
Select center speaker use and size.

- **[Selectable items]**
  - Large
  - Small
  - None

**Subwoofer**
Select subwoofer use.

- **[Selectable items]**
  - Yes
  - No

**Surround Speaker**
Select surround speakers use and size.

- **[Selectable items]**
  - Large
  - Small
  - None

**Surround Back Speaker**
Select surround back speaker use and size.

- **[Selectable items]**
  - 2spkrs
  - 1spkr

---

**Even when the surround back speaker setting is other than “None”, sound may not be emitted from the surround back speaker, depending on the playback source. In this case, make a menu “Parameter” – “Surround Parameter” – “SB CH Out” setting other than “OFF” (page 42).**
Subwoofer Setup
Select low range signal to be reproduced by subwoofer.

[Selectable items]
- **LFE**: Play low range and LFE signal of channels set to “Small”.
- **LFE+Main**: Play low range and LFE signal of all channels.

- This can be set when menu “Speaker Configuration” – “Subwoofer” is set to “Yes”.
- Play music or a movie source and select the mode offering the strongest bass.
- Select “LFE+Main” if you want the bass signals to always be produced from the subwoofer.

Distance
Set distance from listening position to speakers.
Before making the settings, measure the distance from the listening position to the different speakers.

**Unit**
Select unit for distance.

[Selectable items]
- **Meters**
- **Feet**

**Step**
Select step (smallest distance)

[Selectable items]
- **0.1m**
- **0.01m**
- **1ft**
- **0.1ft**

**Default**
Reset the settings to the default values.

Distance measurement
Select the speaker you want to set, then set the distance.
Set the value closest to the measured distance.

[Variable range]
- **0.00m ~ 18.00m**: Display when “Meters” is set.
- **0.0ft ~ 60.0ft**: Display when “Feet” is set.

Test Tone Start
Output test tone.

[Variable range]
- **OFF**
- **–12dB**
- **0dB**
- **+12dB**

**Default**
Reset the settings to the default values.

Operating from the main remote control unit
Adjusting with the main remote control unit using the test tones is only possible in the “Auto” mode and only effective in the STANDARD mode. The adjusted levels for the different modes are automatically stored in the memory.

**[Adjusting using test tones]**

1. Press [TEST].
   - Test tones are output from the various speakers.
2. Use << >> to adjust so that the volume is equal for all speakers.
3. When the adjustments are completed, press [TEST] again.

   - When the menu “Speaker Configuration” – “Surround Back Speaker” setting (page 26) is set to “1spkr”, the surround back speaker display is set to “SB”.
   - Speakers set to “None” in the “Speaker Configuration” settings are not displayed.
   - 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 55.

Specifications
- Select “Large” or “Small” not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency set at “Crossover Frequency” (page 28).
- When “Front Speaker” is set to “Small”, “Subwoofer” can automatically set to “Yes”.
- If “Subwoofer” is set to “No”, “Front Speaker” is automatically set to “Large”.
- If “Surround Speaker” is set to “None”, “Surround Back Speaker” is automatically set to “None”.
- When “Front Speaker” is set to “Small”, “Center Speaker” can not be set to “Large”.
- When using just one surround back speaker, connect it to the left channel (SBL).
- When set to other than “7.1ch” with “Amp Assign”, “Surround Back Speaker” is not displayed.

For details on how to select, set and cancel settings for each menu, see "Menu Operations" (page 19).


### 5. Crossover Frequency
Select crossover frequency from which subwoofer handles low range signal.

**[Selectable items]**

- 40Hz
- 60Hz
- 80Hz
- 90Hz
- 100Hz
- 110Hz
- 120Hz
- 150Hz
- 200Hz
- 250Hz

Only the portion of the bass sound of the various speakers output from the subwoofer that has a frequency below the frequency set here is output.

Set this according to the low frequency reproduction capabilities of the speakers you are using.

**Advanced:**
Set the crossover frequency separately for the different speakers.

- If in the “Advanced” settings, “Subwoofer Setup” (page 27) in the menu is set to “LFE”, it is possible to make this setting for speakers set to “Small” at “Speaker Configuration”. If set to “LFE+Main”, this setting can be made regardless of the speaker size.
- 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.
- Always set the crossover frequency to “80 Hz”. When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.

### 6. Front Speaker Setup
Select front speakers to use for each surround mode.

**[Selectable items]**

- **Normal**: To change the settings, select “Custom”.
- **Custom**: When set to “Custom”, you can select beforehand the front speaker to use for each surround mode.

**[Selectable items]**

- **DIRECT/STEREO**: A, B, A+B
- **MULTI CH**: A, B, A+B

**NOTE**
When set to “Custom”, SPEAKERS does not operate.

### 1. Color Space
Make settings for output color space.

**[Selectable items]**

- **YCbCr**: Output using YCbCr format.
- **RGB**: Output using RGB format.

When connected to a monitor with a DVI-D connector (HDCP compatible) using an HDMI/DVI converter cable, the signals are output in RGB format, regardless of this setting.

### 2. RGB Range
Make settings for RGB output range.

**[Selectable items]**

- **Normal**: Use video range from 16 (black) to 235 (white).
- **Enhanced**: Video range from 0 (black) to 255 (white). Use this setting to avoid black washout.

When “YCbCr” is selected under “Color Space”, “RGB Range” will have no effect.

---

For details on how to select, set and cancel settings for each menu, see “Menu Operations” (page 19).
6 Power Off Control
Interlock power OFF with HDMI control.

[Selectable items] ON OFF

* This can be set when “HDMI Control” is set to “ON”.
* Please consult the operating instructions for each connected device to check the settings.

NOTE
* When the “HDMI Control” setting has been changed, always turn off the power to the connecting devices afterwards and then turn back on.
* The “HDMI Control” and “Power Off Control” does not work when the power to the equipment is off.
* For details, see “HDMI Control Function” (page 54).

Audio Setup
Make settings for audio playback.

Menu screen
2. Manual Setup
1. Speaker Setup
2. HDMI Setup
3. Audio Setup
4. Zone Setup
5. Option Setup

2-3 Audio Setup
1. EXT. IN SW Level
2. 2ch Direct/Stereo
3. Dolby Digital Setup
4. Auto Surround Mode
5. EQ Preset

1 EXT. IN Subwoofer Level
Set the subwoofer level for playback.

[Selectable items] 0dB +5dB +10dB +15dB

We recommend setting to “+15dB”.

2 2ch Direct/Stereo
Make speaker settings for 2-channel mode playback.

Setting
To change the settings, select “Custom”.

[Selectable items]
Basic : Use the same settings as in “Speaker Setup”.
Custom : Make separate settings for 2-channel mode.

Front
Select front speaker size.

[Selectable items]
Large Small : Select front speaker size.

Subwoofer
Select subwoofer use.

[Selectable items]
Yes No : Select subwoofer use.

Subwoofer Mode
Select low range signal to be reproduced by subwoofer.

[Selectable items]
LFE LFE+Main : Select subwoofer signal.

Crossover
Select crossover frequency from which subwoofer handles low range signal.

[Selectable items]
40Hz 60Hz 80Hz 90Hz 100Hz 110Hz 120Hz 150Hz 200Hz 250Hz : Select crossover frequency.

3 Dolby Digital Setup
Set dynamic range for downmix playback of Dolby Digital sources.

[Selectable items]
ON OFF : Compression is used. Select this if sound from front speakers is distorted.

OFF : Do not use compression. This is the recommended setting.

NOTE
* Set this to “ON” if the sound from the front speakers seems distorted.
* When not using the center speaker or surround speakers, the playback sound is down-mixed and output from the front speakers.

Distance FL
Set distance from listening position to front left speaker.

[Variable range] 0.00m ~ 18.00m

Distance FR
Set distance from listening position to front right speaker.

[Variable range] 0.00m ~ 18.00m

For details on how to select, set and cancel settings for each menu, see “Menu Operations” (page 19).
4 Auto Surround Mode
Make setting for memorizing surround mode setting for each input signal type.

[Selectable items]
ON : Memorize settings. Most recently stored surround mode is automatically selected.
OFF : Do not memorize settings. Surround mode does not change according to input signal.

• 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:
  1. Analog and PCM 2-channel signals
  2. Dolby Digital and DTS 2-channel signals
  3. Dolby Digital and DTS multi-channel signals
  4. Multi-channel signals other than Dolby Digital and DTS (PCM, DSD, etc.)
• When playing in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

5 EQ Preset
Set MultEQ XT related settings and Manual EQ beforehand.

EQ Customize
When MultEQ® XT and Manual EQ you are not using are preset, MultEQ XT can be skipped when selected on the main unit or main remote control unit.

Before running Auto Setup
[Selectable items]
Manual : Used Not Used

After running Auto Setup
[Selectable items]
Audyssey Byp. L/R : Used Not Used
Audyssey Flat : Used Not Used
Manual : Used Not Used

Direct Mode
Select “MultEQ XT” use for DIRECT or PURE DIRECT mode.

[Selectable items]
ON : Use “MultEQ XT”.
OFF : Do not use “MultEQ XT”.

Manual EQ
Adjust tonal quality for each speaker using graphic equalizer.

Default
Reset the settings to the default values.

Base Curve Copy
Copy the MultEQ XT “Audyssey Flat” correction curve.

“All Base Curve Copy” is displayed after the auto setup procedure has been performed.

Adjust CH
1. Select speaker adjustment method.

[Selectable items]
Each CH : Adjust tonal quality for each speaker separately.
L/R CH : Adjust tonal quality for each L/R speaker pair.
All CH : Adjust tonal quality for all speakers together.
2. Select the speaker and frequency band and adjust the level.

[Variable range]
63Hz 125Hz 250Hz 500Hz 1kHz 2kHz 4kHz 8kHz 16kHz
[Variable range] –20dB ~ 0dB ~ +6dB

Zone Setup
Make settings for audio playback in a multi-zone system.

Menu screen

2-4. Zone Setup

1 ZONE2 Setup
Make settings for audio playback in a ZONE2 system.

2 ZONE3 Setup
Make settings for audio playback in a ZONE3 system.

Bass
Adjust low frequency range (bass).

[Variable range] –10dB ~ 0dB ~ +10dB

Treble
Adjust high frequency range (treble).

[Variable range] –10dB ~ 0dB ~ +10dB

HPF
When using speakers that cannot satisfactorily play low frequencies, distortion of the bass sound can be reduced by setting “HPF” to “ON”.

[Selectable items]
OFF : The low range is not attenuated.
ON : The low range is attenuated.

For details on how to select, set and cancel settings for each menu, see "Menu Operations" (page 19).
**Level Lch**

Adjust the left channel output level.

| Variable range | –12dB ~ 0dB ~ +12dB |

The “Level Lch” and “Level Rch” can be set when “Channel” is set to “Stereo”.

**Level Rch**

Adjust the right channel output level.

| Variable range | –12dB ~ 0dB ~ +12dB |

**Channel**

Switch between stereo and mono output.

**Volume Limit**

Make a setting for maximum volume.

<table>
<thead>
<tr>
<th>Selectable items</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF : Do not set a maximum volume.</td>
</tr>
<tr>
<td>–20dB : Set the maximum volume to –20 dB.</td>
</tr>
<tr>
<td>–10dB : Set the maximum volume to –10 dB.</td>
</tr>
<tr>
<td>0dB : Set the maximum volume to 0 dB.</td>
</tr>
</tbody>
</table>

This can be set when “Volume Level” is set to “VAR”.

**Power On Level**

Define the volume setting that is active when the power is turned on.

<table>
<thead>
<tr>
<th>Selectable items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last : Use the memorized setting from the last session.</td>
</tr>
<tr>
<td>–70dB ~ –18dB : Set the volume level when the power is turned on in units of 1 dB.</td>
</tr>
</tbody>
</table>

This can be set when “Volume Level” is set to “VAR”.

**Level Lch**

Adjust the left channel output level.

| Variable range | –12dB ~ 0dB ~ +12dB |

**Level Rch**

Adjust the right channel output level.

| Variable range | –12dB ~ 0dB ~ +12dB |

**Channel**

Switch between stereo and mono output.

**Volume Level**

Adjust the main volume level.

<table>
<thead>
<tr>
<th>Selectable items</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAR : Allow volume adjustment by remote control.</td>
</tr>
<tr>
<td>–40dB : Fix the volume to –40 dB.</td>
</tr>
<tr>
<td>0dB : Fix the volume to 0 dB.</td>
</tr>
</tbody>
</table>

“VAR” is fixed when a power amplifier is assigned to the ZONE2 or ZONE3 output channel at menu “Manual Setup” – “Option Setup” – “Amp Assign” (page 31).

**Option Setup**

Make various other settings.

**Amp Assign**

Define how the amplifier for the surround back speaker channels is used.

The places where the surround back amplifier are used can be set freely according to the usage environment. This makes it possible to output sound to rooms other than the room (the MAIN ZONE) where surround playback is performed (multi-zone playback) or play the sound with high quality using the front speakers (bi-amp connections).

<table>
<thead>
<tr>
<th>Selectable items</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1ch : The surround back channel is output from the speakers connected to the SURR.BACK/AMP ASSIGN terminals.</td>
</tr>
<tr>
<td>ZONE2 : When ZONE2 power is on, ZONE2 sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN terminal.</td>
</tr>
<tr>
<td>ZONE3 : When ZONE3 power is on, ZONE3 sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN terminal.</td>
</tr>
<tr>
<td>ZONE2/3-MONO : ZONE2 monaural sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN (L) speaker, and ZONE3 monaural sound is emitted from the speaker connected to the ZONE2 BACK/AMP ASSGN (R) terminal.</td>
</tr>
<tr>
<td>FrontA Bi-Amp : The Front A channel for Bi-Amp use is output from the speakers connected to the SURR. BACK/AMP ASSGN terminals.</td>
</tr>
<tr>
<td>FrontB Bi-Amp : The Front B channel for Bi-Amp use is output from the speakers connected to the SURR. BACK/AMP ASSGN terminals.</td>
</tr>
</tbody>
</table>
3 Source Delete
Remove input sources that are not used from the display.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Use this source.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delete</td>
<td>Do not use this source.</td>
</tr>
</tbody>
</table>

Default
Reset the settings to the default values.

NOTE
- Input sources being used in the various zones cannot be deleted.
- Input sources set to “Delete” cannot be selected using SOURCE SELECT.

4 On-Screen Display
Make on-screen display related settings.

Screensaver
Make screensaver settings.
Use the screensaver to prevent burn-in on the monitor screen.
When set to “ON”, the screensaver is activated if there is no activity for about 3 minutes.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Activate the screensaver if there is no activity for about 3 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn the screensaver function off.</td>
</tr>
</tbody>
</table>

When “Screensaver” is set to “ON”, the screensaver is activated if no operation is performed for about 3 minutes.
When you press $\Delta \nabla$, the screensaver is cancelled and the screen before that screensaver started is displayed.

Text
Input source and mode display.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Turn display on.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn display off.</td>
</tr>
</tbody>
</table>

Master Volume
Master volume display during adjustment.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Turn display on.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn display off.</td>
</tr>
</tbody>
</table>

Tuner Information
This sets the time the on-screen display is displayed when a tuner operation is performed.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Activate the screensaver if there is no activity for about 3 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn the screensaver function off.</td>
</tr>
</tbody>
</table>

When “Screensaver” is set to “ON”, the screensaver is activated if no operation is performed for about 3 minutes.
When you press $\Delta \nabla$, the screensaver is cancelled and the screen before that screensaver started is displayed.

iPod Information
This sets the time the on-screen display is displayed when an iPod operation is performed.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Activate the screensaver if there is no activity for about 3 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn the screensaver function off.</td>
</tr>
</tbody>
</table>

When “Screensaver” is set to “ON”, the screensaver is activated if no operation is performed for about 3 minutes.
When you press $\Delta \nabla$, the screensaver is cancelled and the screen before that screensaver started is displayed.

Power On Level
This sets the volume set when the MAIN ZONE’s power is turned on.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Activate the screensaver if there is no activity for about 3 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn the screensaver function off.</td>
</tr>
</tbody>
</table>

[iPod Information]
This sets the time the on-screen display is displayed when an iPod operation is performed.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Activate the screensaver if there is no activity for about 3 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn the screensaver function off.</td>
</tr>
</tbody>
</table>

When “Screensaver” is set to “ON”, the screensaver is activated if no operation is performed for about 3 minutes.
When you press $\Delta \nabla$, the screensaver is cancelled and the screen before that screensaver started is displayed.

Mute Level
This sets the amount of attenuation of the volume when the mute mode is set in the MAIN ZONE.

[Selectable items]

<table>
<thead>
<tr>
<th>ON</th>
<th>Activate the screensaver if there is no activity for about 3 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turn the screensaver function off.</td>
</tr>
</tbody>
</table>

When “Screensaver” is set to “ON”, the screensaver is activated if no operation is performed for about 3 minutes.
When you press $\Delta \nabla$, the screensaver is cancelled and the screen before that screensaver started is displayed.

For details on how to select, set and cancel settings for each menu, see “Menu Operations” (page 19).
### 5 Quick Select Name
Change the Quick Select name.
Up to 16 characters can be input.

#### [Input characters]
A-Z a-z 0-9 !#%&'()*+,.-;=/?@[] (space)

**Default**
Reset the settings to the default values.

### 6 Trigger Out
Select the conditions to turn on the trigger out with respect to the zone, input source, surround mode, etc. For details about the trigger out function, see page 18.

#### Selecting the Zone
Select the zone for which the trigger out is set.

**[Selectable items]**
- **All**
- **MAIN**
- **ZONE2**
- **ZONE3**
- **MAIN/2**
- **MAIN/3**
- **2/3**

#### Setting with Respect to the Input Source
When the input source set to on is selected, the trigger out turns on.

**[Selectable items]**
- **ON**: Activate trigger on this mode.
- **-- --**: Do not activate trigger on this mode.

#### Setting with Respect to the Surround Mode
- When the surround mode set to on is selected, the trigger out turns on.
- Associated with respect to surround modes that are set to “ON”.
- This can be set if the “MAIN ZONE” is selected at “Selecting the Zone”.
- Associated when an input source for which “Setting with Respect to the Input Source” is set to “ON” is selected.

**[Selectable items]**
- **ON**: Activate trigger on this mode.
- **-- --**: Do not activate trigger on this mode.

### 7 Remote ID Setup
Set remote control ID.
Match the ID setting of the remote control unit and the receiver.

**[Selectable items]**
- **1**
- **2**
- **3**
- **4**

When changing the remote ID, also change the AMP, iPod and TU modes of the main remote control unit at the same time (page 59).

### 8 232C Port
Set when external controller or 2-way remote control unit is connected.

**[Selectable items]**
- **Serial Control**: Set when using an external controller.
- **2Way Remote**: Set when using a 2-way remote control unit.

**NOTE**
When using a 2-way remote control unit (RC-7000CI and RC-7001RCI, sold separately), set this to “2Way Remote”. In this case, you can not use the RS-232C connector as an external controller.

### 9 Display
Adjust display brightness of the receiver.

**[Selectable items]**
- **Bright**: Normal display brightness.
- **Dim**: Reduced display brightness.
- **Dark**: Very low display brightness.
- **OFF**: Display is off unless controls are operated.

When setting to “OFF”, the display brightness of the menu setting in operation changes to “Dark”.

### 10 Setup Lock
Protect settings from inadvertent change.

**[Selectable items]**
- **ON**: Turn protection on.
- **OFF**: Turn protection off.

- 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.
  - RESTORER
  - Night Mode
  - MultiEQ XT
  - Dynamic EQ
  - Dynamic Volume
  - Channel Level
  - Audio Delay
- To cancel the setting, press **MENU** to re-display the “Setup Lock” screen, then change the setting to “OFF”.

For details on how to select, set and cancel settings for each menu, see “Menu Operations” (page 19).
Input Setup

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control unit

Button only on the main unit

Button only on the remote control unit

For details on how to select, set and cancel settings for each menu, see “Menu Operations” (page 19).

TUNER (AM/FM)

This menu is for “TUNER”.

- Menu screen

3. Input Setup

1. Auto Preset
2. Preset Skip
3. Preset Name
4. Video
5. Input Mode
6. Rename
7. Source Level

Displayed when source name is changed with “Rename”.

PHONO

This menu is for “PHONO”.

- Menu screen

3. Input Setup

1. Assign
2. Video
3. Input Mode
4. Rename
5. Source Level

CD, DVD, HDP, TV/CBL, SAT, VCR, DVR, V.AUX

This menu is for “CD”, “DVD”, “HDP”, “TV/CBL”, “SAT”, “VCR”, “DVR”, “V.AUX”.

- Menu screen

3. Input Setup

1. Assign
2. Video
3. Input Mode
4. Rename
5. Source Level

Settings Related to Playing Input Sources

Auto Preset

Use the auto preset function to program radio stations.

[Input source] TUNER

[Selectable items]

Start : Start the auto preset process.

If an FM station cannot be preset automatically, select the desired station by tuning it manually, then preset it manually.

Changing the input source within Input Setup

The input source currently selected in the MAIN ZONE is not changed even when the input source within Input Setup is changed.

Press \( \Delta \) to align the cursor with the top right of the menu screen, and press \(<\) to change the input source.

Specifications

Button located on both the main unit and the remote control unit

Button only on the main unit

Button only on the remote control unit

Symbols used to indicate buttons in this manual
2 Preset Skip
Set the preset memories that you do not want to display when tuning.

A ~ G
Select the preset channel(s) you do not want to display.

[Input source] TUNER

[Selectable items]
ON : Display this number.
Skip : Skip this number.

If you set “Block Presets” to “Skip”, you can skip the preset memory blocks (A to G).

3 Preset Name
Assign name to a preset memory.
Names containing up to 8 characters can be input.

A1 ~ G8
Select the preset memory number.

[Input source] TUNER

[Characters that can be input]
A ~ Z a ~ z 0 ~ 9 ! # $ % ^ & * ( ) + , - . / : ; = " ? @ \ [ ] { } (space)

4 Video
Setting the video source.

Video Select
Switch video input source while listening to audio signal.

[Input source] TUNER PHONO CD DVD HDMI TV/CBL SAT VCR DVR V.AUX

[i/p Scaler]
Make settings for i/p scaler function.

[Input source] DVD HDMI TV/CBL SAT VCR DVR V.AUX

[Selectable items]
A to H : Use i/p scaler function for analog video signal.
OFF : Do not use i/p scaler function.

NOTE
When the “Convert” setting is “OFF”, you cannot set “i/p Scaler”.

Resolution
Make settings for resolution of HDMI video output signal.

[Input source] DVD HDMI TV/CBL SAT VCR DVR V.AUX

[Selectable items]
Auto : Detect monitor panel resolution and automatically set output resolution.
1080i : Output at 1080i resolution.
720p : Output at 720p resolution.
1080p : Output at 1080p resolution.

NOTE
• It is not possible to convert “1080i” signals into “720p” format.
• It is not possible to convert “720p” signals into “1080i” format.

This can be set when “i/p Scaler” is set to “A to H”.

Convert
Automatically convert video input signal to monitor output format.

[Input source] DVD HDMI TV/CBL SAT VCR DVR V.AUX

[Selectable items]
ON : Enable conversion.
OFF : Disable conversion.

NOTE
When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. If this happens, please set the conversion mode to “OFF”.

For details on how to select, set and cancel settings for each menu, see “Menu Operations” (page 19).
**Progressive Mode**
Select optimum progressive mode for video material.

[Input source] DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items]
Auto : Automatically detect video material type.
Video1 : Select mode suitable for video playback.
Video2 : Select mode suitable for video and 30-frame film material playback.

This can be set when “i/p Scaler” is set to “A to H”.

**Aspect**
This sets the aspect ratio when outputting 480i/576i or 480p/576p input signals from the HDMI output connector.

[Input source] DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items]
Full : Output at 16:9 aspect ratio.
Normal : Output at 4:3 aspect ratio.

This can be set when “i/p Scaler” is set to “A to H”.

**Input Mode**
Make input mode and decode mode settings for this source. The selectable input modes depend on the input source and “Assign” setting (page 37).

Set the input mode for this source.

[Input source] TUNER PHONO

[Selectable items]
Analog : Play only signals from analog input.
EXT. IN : Play only signals from EXT. IN input.

This can be set when “Assign” setting is set to “HDMI In”.

**Decode Mode**
Set the decode mode for this source.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items]
Auto : Detect type of digital input signal and perform playback.
HDMI 1 : Play only signals from HDMI input. (Excluding CD)
Digital 2 : Play only signals from digital input.
Analog : Play only signals from analog input.
EXT. IN : Play only signals from EXT. IN input.

When a digital signal is properly input, the “HDMI” indicator lights on the display. If the “HDMI” indicator does not light, check the digital input connector assignment and the connections.

This can be selected for input sources for which the menu “Assign” setting is set to “HDMI In”.

Only set “PCM” and “DTS” when playing the respective signals.

**Rename**
Change the display name for this source.
Names containing up to 8 characters can be input.

[Characters that can be input]
A ~ Z a ~ z 0 ~ 9 ! # % & ’ ( ) * + , - . / : ; = ? @ \ (space)

Default
Reset the settings to the default values.

---

For details on how to select, set and cancel settings for each menu, see “Menu Operations” (page 19).
### Source Level

Corrects the playback level of the selected input source’s audio input.

[Variable range] -12dB ~ 0dB ~ +12dB

For input sources for which “HDMI In” and “Digital In” are set at the menu “Assign” setting, the analog input level and digital input level can be set separately.

### Assign

Assign input sources to input connectors.

#### HDMI In

Select HDMI connector to assign to this source.

[Input source] DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items]

- **HDMI1**: Assign HDMI1 input connector.
- **HDMI2**: Assign HDMI2 input connector.
- **HDMI3**: Assign HDMI3 input connector.
- **HDMI4**: Assign HDMI4 input connector.
- **None**: No HDMI input connector assigned.

Default setting

- **HDMI1**: HDMI1
- **HDMI2**: HDMI2
- **HDMI3**: None
- **HDMI4**: None

#### Digital In

Select digital input connector to assign to this source.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items]

- **COAX1**: Assign COAXIAL 1 input connector.
- **COAX2**: Assign COAXIAL 2 input connector.
- **COAX3**: Assign COAXIAL 3 input connector.
- **OPT1**: Assign OPTICAL 1 input connector.
- **OPT2**: Assign OPTICAL 2 input connector.
- **OPT3**: Assign OPTICAL 3 input connector.
- **None**: No digital input connector assigned.

Default setting

- **COAX1**: COAX1
- **COAX2**: None
- **COAX3**: None
- **OPT1**: OPT1
- **OPT2**: OPT2
- **OPT3**: OPT3

#### iPod Dock

Assign control dock for iPod to this source.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items]

- **Assign**: Assign iPod input.
- **None**: Do not assign iPod input.

- With the default settings, the control dock for iPod can be used connected to the VCR (iPod) connector.
- Even if “iPod Dock” is set to “Assign”, if AVR-2809 and control dock for iPod are not connected, the input is used as the normal input source.
### iPod

Make settings for “iPod” playback.

#### Input source

- CD
- DVD
- HDP
- TV/CBL
- SAT
- VCR
- DVR
- V.AUX

### Repeat Mode

Make settings for repeat mode.

**[Selectable items]**

- **All**: Repeat all songs.
- **One**: Repeat the current song.
- **OFF**: Cancel repeat mode.

### Shuffle Mode

Make settings for shuffle mode.

- **When DENON control dock for iPod ASD-1R is connected**

  **[Selectable items]**
  
  - **Songs**: Shuffle all songs.
  - **Albums**: Shuffle songs from current album only.
  - **OFF**: Cancel shuffle mode.

- **When DENON control dock for iPod ASD-3N/3W is connected**

  **[Selectable items]**
  
  - **ON**: Shuffle mode on.
  - **OFF**: Cancel shuffle mode.

This can be selected for input sources for which “Assign” is assigned at the “iPod Dock” setting.

### Surround Modes

#### Standard Playback

This is the mode for enjoying surround sound according to the program source.

#### Surround Playback of 2-channel Sources

**Selecting the surround mode**

Select by pressing **STANDARD**. The mode switches each time the button is pressed.

**[Selectable items]**

- **DOLBY PLIIx** or **DOLBY PLII**: The signals are decoded in DOLBY PLII for playback.
- **DTS NEO:6**: The signals are decoded in DTS NEO:6 for playback.

* : **DOLBY PLIIx** can be selected when surround back speakers are being used. **DOLBY PLII** can be selected when surround back speakers are not being used.

**Select the mode to suit the source**

Select the “Cinema”, “Music”, “Game” and “Pro Logic” modes at menu “Parameter” – “Surround Parameter” – “Mode” (page 41).

- **DOLBY PLIIx or DOLBY PLII**
  
  - **Cinema**: This mode is suited for movie sources.
  - **Music**: This mode is suited for music sources.
  - **Game**: This mode is suited for games.
  - **Pro Logic**: This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, “DOLBY PL” is displayed.

- **DTS NEO:6**
  
  - **Cinema**: This mode is suited for movie sources.
  - **Music**: This mode is suited for music sources.
Playing Multi-channel Sources (Dolby Digital, DTS, etc.)

In the case of standard playback of multi channel sources, the AVR-2809 recognizes the format of the multi-channel audio input signal and automatically operates the appropriate decoder for surround sound.

[Selectable items]

**STANDARD**: Any of the surround modes in the "Display" column in the following table. The mode changes depending upon factors such as the
• Input signal
• Whether or not surround back speakers are being used.

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX</td>
<td>DOLBY DIGITAL</td>
</tr>
<tr>
<td>DOLBY DIGITAL Plus (Dolby TrueHD) (DTS, etc.)</td>
<td>DOLBY DIGITAL +</td>
</tr>
<tr>
<td>DOLBY TrueHD (Dolby TrueHD)</td>
<td>DOLBY TrueHD</td>
</tr>
<tr>
<td>DTS 5.1ch / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1</td>
<td>DTS SURROUND</td>
</tr>
<tr>
<td>DTS HD (DTS-HD Master Audio, DTS-HD High Resolution Audio)</td>
<td>DTS-HD MSTR</td>
</tr>
<tr>
<td>PCM (multi ch) / DSD (multi ch)</td>
<td>MULTI CH IN</td>
</tr>
<tr>
<td>DTS-HD Master Audio (DTS-HD Master Audio)</td>
<td>DTS-HD HI RES</td>
</tr>
<tr>
<td>DTS-HD High Resolution Audio (DTS-HD High Resolution Audio)</td>
<td>DTS-HD NEO:6</td>
</tr>
<tr>
<td>DTS-HD + DTS-HD PCM (DTS-HD HD Audio)</td>
<td>DTS-HD+PLIIx CINEMA</td>
</tr>
<tr>
<td>DSD (multi channel) / DSD Multi-channel Audio</td>
<td>DSD (multi ch)</td>
</tr>
</tbody>
</table>

1: This is displayed when the input signal is "DTS-ES Matrix 6.1".
2: This is displayed when the input signal is "DTS-ES Discrete 6.1".
3: This is displayed when the input signal is "DTS 96/24".
4: This is displayed when the input signal is "DOLBY DIGITAL EX (Dolby TrueHD)".
5: This is displayed when the input signal is "DTS ES DSCRT6.1 (DTS ES DSCRT6.1)".
6: This is displayed when the input signal is "DTS ES MTRX6.1 (DTS ES MTRX6.1)".
7: This is displayed when the input signal is "DTS HD 7.1 (DTS HD 7.1)".

DSP Simulation Playback

The desired mode according to the program source and viewing situation can be selected from among 10 DENON original surround modes.

The surround parameters can be adjusted (page 68, 69) to achieve an even more realistic, powerful sound field.

### Selecting the surround mode

Select by pressing DSP SIMULATION.

The mode switches each time the button is pressed.

<table>
<thead>
<tr>
<th>Selectable items</th>
<th>5CH / 7CH STEREO</th>
<th>WIDE SCREEN</th>
<th>SUPER STADIUM</th>
<th>ROCK ARENA</th>
<th>JAZZ CLUB</th>
<th>CLASSIC CONCERT</th>
<th>MONO MOVIE</th>
<th>VIDEO GAME</th>
<th>MATRIX</th>
<th>VIRTUAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This mode is for enjoying stereo sound from all speakers.</td>
<td>This mode is for enjoying the atmosphere of viewing a movie on a large screen.</td>
<td>This mode is suited for viewing sports programs.</td>
<td>This mode is for enjoying the atmosphere of a live concert in an arena.</td>
<td>This mode is for appreciating classical concert programs.</td>
<td>This mode is for playing monaural movie sources with surround sound.</td>
<td>This mode is suited for achieving surround sound with video games.</td>
<td>This mode lets you add a sense of expansion to stereo music sources.</td>
<td>This mode is for enjoying surround effects using only the front speakers or headphones.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>This mode is for enjoying surround</td>
<td>This mode is for enjoying the atmosphere of viewing a movie on a large screen.</td>
<td>This mode is suited for viewing sports programs.</td>
<td>This mode is for enjoying the atmosphere of a live concert in an arena.</td>
<td>This mode is for appreciating classical concert programs.</td>
<td>This mode is for playing monaural movie sources with surround sound.</td>
<td>This mode is suited for achieving surround sound with video games.</td>
<td>This mode lets you add a sense of expansion to stereo music sources.</td>
<td>This mode is for enjoying surround effects using only the front speakers or headphones.</td>
<td></td>
</tr>
</tbody>
</table>

*1: This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-2809’s "AFDM" setting is set to "ON".
*2: This is displayed when the input signal is "DTS-ES Discrete 6.1".
*3: This is displayed when the input signal is "DTS 96/24".
*4: When a signal is input, the HD AUDIO indicator lights.

For details, see pages 70, 71.

Direct Playback

Selecting the mode

Select by pressing DIRECT/STEREO.

[Selectable items]

**DIRECT**: In this mode the signals bypass the tone adjustment circuitry for high quality sound.

The sound is output to the same channels as the input signal.

### Input signal | Display
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog signal / PCM (2ch) / Dolby Digital source / DTS source / Other 2-channel digital signals</td>
<td>DIRECT</td>
</tr>
<tr>
<td>PCM (multi ch)</td>
<td>M DIRECT + PLIIx CINEMA</td>
</tr>
<tr>
<td>DSD (multi ch)</td>
<td>DSD MULTI DIRECT</td>
</tr>
</tbody>
</table>

*: When DSD signals are converted to PCM signals as set by the audio parameters and speaker settings, "DIRECT" or "MULTI CH DIRECT" is displayed.

![Tips](Tips)

For details, see page 71.

Depending on the program source being played, it may not be possible to achieve a satisfactory surround effect. In this case, try other modes to achieve a sound field suited to your tastes.
## 4 Stereo Playback

### Selecting the mode

Select by pressing DIRECT/STEREO.

**[Selectable items]**

**STEREO**

This is the mode for playing in stereo. The tone can be adjusted. Sound is output from the front left and right speakers and subwoofer.

When DIRECT/STEREO is pressed, DIRECT mode can be switched to STEREO mode.

### Playback in the PURE DIRECT Mode

This is the mode that recreates the original sound most faithfully, providing extremely high quality sound.

Press PURE DIRECT.

- To cancel, press PURE DIRECT again.
- When in the PURE DIRECT mode, the on-screen display is not displayed and the display on the main unit is turned off.
- If the HDMI input connector is selected, video outputs are output in the PURE DIRECT mode.
- The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.

### Adjusting the parameters

1. Press **MENU**. The menu is displayed.
   - To operate from the main remote control unit, be sure to set the remote control unit to the AMP mode.

2. Press **△ ▽** to select “Parameter”, then press **ENTER**.

3. To change the setting:
   - Press **△ ▽** to select the item you want to change, then press **◁ ▶** to change the setting.
   - To return to the previous item, press **RETURN**.
   - Select “Default Yes”, then press **◁** to reset to the default setting.

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

- To exit adjustment
  - Press **MENU** during adjustment.
Surround Parameter
Adjust surround sound parameters.

The parameters (items) which can be adjusted differ depending upon the following conditions.

- Whether an input signal is present (when playing) or not (when stopped, etc.).
- The type of input signal
- The type of surround mode

For details of which parameters can be adjusted in each surround mode, see “Surround Modes and Parameters” (page 68, 69).

1. Surround Parameter
   Adjust surround sound parameters.
   The adjustable parameters differ for the different surround modes (page 68, 69).

1. Mode
   Select the mode to match the source (cinema source, music source, etc.).

   [Selectable items]
   - Cinema
   - Music
   - Game

2. In the PLIIx or PLII mode
   [Selectable items]
   - Cinema
   - Music

3. LFE
   Adjust the low-frequency effects level (LFE).
   [Variable range] -10dB ~ 0dB

4. Dynamic Range Compression
   Compress dynamic range (difference between loud and soft sounds).
   [Selectable items]
   - Off
   - Low
   - Middle
   - High

5. Center Image
   Assign center channel signal to front left and right channels for wider sound.
   [Variable range] 0.0 ~ 0.3 ~ 1.0

6. Panorama
   Assign front L/R signal also to surround channels, for wider sound.
   If the surround effect seems weak, set “Panorama” to “On”.
   [Selectable items]
   - On
   - Off

For details on adjusting individual parameters, see “Adjusting the parameters” (page 40).
8 Dimension
Shift sound image center to front or rear, to adjust playback balance.

[Variable range] 0 ~ 3 ~ 6

9 Center Width
Assign center channel signal to front left and right channels for wider sound.

[Variable range] 0 ~ 3 ~ 7

10 Delay Time
Adjust delay time to control sound stage size.

[Variable range] 0 ms ~ 30 ms ~ 300 ms

11 Effect
Switch effect signal for multi-surround speakers on and off. When “Effect” is set to “ON”, a surround effect with a strong sense of expansion is achieved.

[Selectable items] ON OFF

12 Effect Level
Adjust effect signal level.

[Variable range] 1 ~ 10 ~ 15

Set to a lower level if the positioning and sense of phase of the surround signals seems unnatural.

13 Room Size
Determine size of acoustic environment.

[Selectable items]
- Small: Simulate acoustics of a small room.
- Medium: Simulate acoustics of a medium room.
- Large: Simulate acoustics of a large room.

NOTE
“Room Size” does not indicate the size of the room in which sources are played.

14 AFDM (Auto Flag Detect Mode)
Auto-select surround mode by source. This function only works for software containing a special identification signal. If the software being played is recorded in Dolby Digital EX or DTS-ES, it is played in 6.1-channels. If not, it is played in 5.1-channels.

[Selectable items] ON OFF

Example: Playing Dolby Digital software (with EX flag)
- When “AFDM” is set to “ON”, the surround mode is automatically set to the DOLBY + PLIIx CINEMA mode.
- To play in the Dolby Digital EX mode, set “AFDM” to “OFF” and “SB CH Out” to “MTRX ON”.

- 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 “SB CH Out” to “MTRX ON” or “PLIIx CINEMA”.
- When the “Amp Assign” setting is “7.1ch”, and using the surround back speakers, you can set “AFDM”.

15 SB CH Out (for Multi-channel sources)
Select playback mode for surround back channels.

[Selectable items]
- OFF: No signal is played from the surround back channels.
- MTRX ON: The surround channel signals undergo digital matrix processing and are output from the surround back channels.
- PLIIx CINEMA *1: Decoded in Dolby Pro Logic IIx Cinema mode, surround back signal played.
- PLIIx MUSIC *2: Decoded in Dolby Pro Logic IIx Music mode, surround back signal played.
- ES MTRX *3: DTS signal played with digital matrix processing.
- ES DSCRT *4: Signal included in DTS-ES Discrete 6.1-channel sources played.
- DSCRT ON: Mode for discrete playback of surround back signals included in 7.1-channel digital discrete audio signals (DVD, etc.).

*1: This can be selected when “Surround Back Speaker” is set to “2spkrs” at the menu “Manual Setup” – “Speaker Setup” – “Speaker Configuration” setting (page 26).
*2: This can be selected when “Surround Back Speaker” is set to “2spkrs” or “1spkr” at the menu “Manual Setup” – “Speaker Setup” – “Speaker Configuration” setting.
*3: This can be selected when playing DTS sources.
*4: This can be selected when playing DTS sources including a discrete 6.1-channel signal identification signal.

Settings can also be made when STANDARD or <SURROUND BACK> is pressed.
When using surround back speakers, adopt the following settings.
- Adopt “7.1ch” (Default) for the “Amp Assign” setting.
- Adopt setting other than “OFF” for the “SB CH Out” setting of “Surround Parameter”.

For details on adjusting individual parameters, see “Adjusting the parameters” (page 40).
15 SB CH Out (for 2-channel sources)
Determine whether to use surround back speakers.

[Selectable items]
ON: The surround back channel signal is played.
OFF: The surround back channel signal is not played.

This operation can be performed directly pressing <SURROUND BACK>.

16 SUBWOOFER ATT
Attenuate subwoofer level when using EXT. IN mode.

[Selectable items]
ON: The input from the subwoofer channel is attenuated.
OFF: The input from the subwoofer channel is not attenuated. Usually use in this mode.

Set this to “ON” if the subwoofer channel level seems too high when playing audio signal.

17 Subwoofer
Turn subwoofer output on and off.

[Selectable items]
ON: The subwoofer is used.
OFF: The subwoofer is not used.

For details on adjusting individual parameters, see “Adjusting the parameters” (page 40).
Dynamic EQ

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultiEQ XT to provide well-balanced sound for every listener at any volume level.

**[Selectable items]**

- **ON**: Use Dynamic EQ function.
- **OFF**: Do not use Dynamic EQ function.

**Operating from the main unit or main remote control unit**

Press DYNAMIC VOLUME.

- **Dynamic EQ / Volume**: ON
- **Dynamic EQ / Volume**: OFF

• “Dynamic EQ” can only be set when auto setup has been performed.
• After performing “Auto Setup”, the “Dynamic EQ” setting automatically becomes “ON”.
• “Dynamic EQ” cannot be set in the following situations.
  - If “Auto Setup” fails to be completed.
  - After running Auto Setup, when the number of used speakers has increased from the number of measured speakers.
• When “MultEQ XT” is set to "OFF" or "Manual", “Dynamic EQ” is automatically set to “OFF”.
• Before running Auto Setup and after running Auto Setup, if the number of speakers has increased or you pressed DYNAMIC VOLUME, “Run Audyssey” is displayed. In this case, either perform Auto Setup, or return to the setting after running Auto Setup with “Auto Setup” – “Parameter Check” – “Restore”.

**NOTE**

When you set “Dynamic EQ” to “ON”, “Tone Control” and “Night Mode” are switched “OFF”.

**Potential settings**

- **Dynamic EQ**: When “MultEQ XT” is set to “ON”
- **Dynamic Volume**: When “Dynamic EQ” is set to “ON”
- **Setting**: When “Dynamic Volume” is set to “ON”

Dynamic Volume

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies.

Audyssey Dynamic Volume is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

**[Selectable items]**

- **ON**: Use Dynamic Volume.
- **OFF**: Do not use Dynamic Volume.

**Operating from the main unit or main remote control unit**

Press DYNAMIC VOLUME.

- **Dynamic EQ / Volume**: ON
- **Dynamic EQ / Volume**: OFF

• “Dynamic EQ” can only be set when auto setup has been performed.
• “Dynamic EQ” cannot be set in the following situations.
  - If “Auto Setup” fails to be completed.
  - After running Auto Setup, when the number of used speakers has increased from the number of measured speakers.
• When “MultEQ XT” is set to “OFF” or “Manual”, “Dynamic Volume” is automatically set to “OFF”.
• Before running Auto Setup and after running Auto Setup, if the number of speakers has increased or you pressed DYNAMIC VOLUME, “Run Audyssey” is displayed. In this case, either perform Auto Setup, or return to the setting after running Auto Setup with “Auto Setup” – “Parameter Check” – “Restore”.

**NOTE**

“Dynamic Volume” and “Night Mode” cannot be used jointly.

About Dynamic EQ

Audyssey Dynamic EQ™ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the correct frequency response and surround levels moment-by-moment at any user-selected volume setting. The result is bass response, tonal balance, and surround impression that remain constant despite changes in volume. Dynamic EQ combines information from incoming source levels with actual output sound levels in the room, a prerequisite for delivering a loudness correction solution. Audyssey Dynamic EQ works in tandem with Audyssey MultiEQ XT to provide well-balanced sound for every listener at any volume level.

About Dynamic Volume

Audyssey Dynamic Volume™ solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Dynamic Volume looks at the preferred volume setting by the user and then monitors how the volume of program material is being perceived by listeners in real time to decide whether an adjustment is needed. Whenever necessary, Dynamic Volume makes the necessary rapid or gradual adjustments to maintain the desired playback volume level while optimizing the dynamic range. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same whether watching movies, flipping between television channels, or changing from stereo to surround sound content.

For details on adjusting individual parameters, see “Adjusting the parameters” (page 40).
**RESTORER**

This function restores compressed audio signals to how they were before compression and corrects the sense of volume of the bass and treble to obtain richer playback sound.

**[Selectable items]**

- **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.

The default setting for “iPod” is “Mode 3”. All others are set to “OFF”.

When set to something other than “OFF”, “RESTORER” is displayed.

- **OFF**
- **Mode1** (RESTORER 64)
- **Mode2** (RESTORER 96)
- **Mode3** (RESTORER HQ)

### Operating from the main remote control unit

Press [RESTORER].

#### About the RESTORER function

- Such compressed audio formats 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.
- This is displayed on the menu and can be set when the analog signals (including AM/FM signals) or PCM signals (fs = 44.1/48 kHz) are input.

### Night Mode

Optimized setting for late-night listening.

**[Selectable items]**

- **OFF**: Turn night mode off.
- **Low**: Low setting.
- **Mid**: Middle setting.
- **High**: High setting.

Press [NIGHT]. The “NIGHT” indicator lights when “Low”, “Mid” or “High” is selected.

### Operating from the main unit or main remote control unit

Press [RESTORER].

#### About the RESTORER function

- This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with “Front Speaker” set to “Large”, “Tone Control” to “OFF” and “MultEQ XT”, “RESTORER” and “Night Mode” to “OFF”).
- When the Auto Lipsync Correction function is operating, you can set within the range 0 ~ 100 ms.
- Store “Audio Delay” for each input source.

### Audio Delay

Compensate for mismatched timing between video and audio.

**[Variable range]**

| 0 ms | ~ 200 ms |

If you wish to adjust the “Audio Delay” while playing HDMI or component video signals, press [ ] to set “OSD” to “OFF”. This way the audio delay can be adjusted while watching the picture. (Press [ ] again to switch to the on-screen display.)

Press [AUDIO DELAY], then press [ ] to adjust audio delay.

#### Operating from the main unit or main remote control unit

**[Selectables]**

- **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.

When set to something other than “OFF”, “RESTORER” is displayed.

- **OFF**
- **Mode1** (RESTORER 64)
- **Mode2** (RESTORER 96)
- **Mode3** (RESTORER HQ)

### RESTORER

This function restores compressed audio signals to how they were before compression and corrects the sense of volume of the bass and treble to obtain richer playback sound.

**[Selectable items]**

- **OFF**: Turn night mode off.
- **Low**: Low setting.
- **Mid**: Middle setting.
- **High**: High setting.

Press [NIGHT]. The “NIGHT” indicator lights when “Low”, “Mid” or “High” is selected.

When the “Dynamic EQ” setting is “ON”, setting is not possible.

When the “Dynamic Volume” setting is “ON”, setting is not possible.

When a HD-Audio (DOLBY DIGITAL Plus, DOLBY TrueHD, DTS-HD) signal is input, the “Night Mode” can not be selected.

### Operating from the main remote control unit

Press [NIGHT]. The “NIGHT” indicator lights when “Low”, “Mid” or “High” is selected.

When operating by remote control, the on-screen display is not shown.

- **OFF**
- **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.

The default setting for “iPod” is “Mode3”. All others are set to “OFF”.

When set to something other than “OFF”, “RESTORER” is displayed.

- **OFF**
- **Mode1** (RESTORER 64)
- **Mode2** (RESTORER 96)
- **Mode3** (RESTORER HQ)
Information

Status
Shows information about current settings.

- **Menu screen**

1. Status
2. Audio Input Signal
3. HDMI Information
4. Auto Surround Mode
5. Quick Select
6. Preset Station

1.Status
- Shows information about current settings.

   **Items to be checked**
   - Select Source
   - Name
   - Surround Mode
   - Input Mode
   - Rec Select
   - Video Select
   - Source Level
   - MultEQ XT
   - Dynamic EQ
   - Dynamic Volume
   - Night Mode
   - RESTORER

2.ZONE2/ZONE3
Shows information about settings for multi-zone.

   **Items to be checked**
   - Power
   - Select Source
   - Volume Level

Audio Input Signal
Shows information about audio input signals.

- **Menu screen**

5. Information
   - Surround Mode
   - Signal
   - Format
   - Offset
   - Flag

5.1.Status
   - Select Source
   - Name
   - Surround Mode
   - Input Mode

5.2.Audio Input Signal
   - Signal
   - Format
   - Offset

Dialogue normalization function
This is automatically activated when playing Dolby Digital sources. This function automatically corrects the standard signal level for individual program sources. The correction value can be checked using **<STATUS>**.

![Dolby Digital Signal](image)

<STATUS>

Symbols used to indicate buttons in this manual
Button located on both the main unit and the remote control unit: **BUTTON**
Button only on the main unit: **<BUTTON>**
Button only on the remote control unit: **[BUTTON]**

When **<STATUS>** is pressed, the set’s status can be checked on the display.
HDMI Information
Shows information about HDMI input signals and monitor.

1. HDMI Signal Information
The HDMI input signal information is displayed.
[Items to be checked]
Resolution  Color Space  Pixel Depth

2. HDMI Monitor Information
The HDMI monitor information is displayed.
[Items to be checked]
Interface  Support Resolution

Auto Surround Mode
Shows information about auto surround mode settings.
The surround mode for which the last memory function was used
for the different input signal types is displayed.

Quick Select
Shows information about quick select settings.

Preset Station
Shows information about preset stations.

Specifications
**Getting Started**

**Connections**

**Setup**

**Remote Control**

**Multi-zone Information**

**Troubleshooting**

---

## Preparation

### Turning the Power On

1. Press <POWER>.
   - The power indicator lights red and the power is set to the standby mode.

2. Press <ON/STANDBY> or [POWER ON].
   - The power indicator flashes green and the power turns on.
   - Also press [SOURCE SELECT] when in standby mode, the power turns on. In this case the input source is selected by main remote control unit.
   - Also press [QUICK SELECT] when in standby mode, the power turns on. In this case Quick Select is selected.

### Turning the Power Off

1. Press <ON/STANDBY> or [POWER OFF].
   - The power is set to the standby mode.

2. Press <POWER>.
   - The power indicator turns off, and so does the power.

### Operations During Playback

#### Adjusting the Master Volume

Either turn <MASTER VOLUME> or press [MASTER VOLUME].

![Variable range](---) – – – – – – 80.0dB ~ 18.0dB

**NOTE**

The adjustable range will differ depending upon factors such as the type of input signal and the channel level setting.

#### Turning Off the Sound Temporarily (Muting)

Press [MUTE].

- The sound is reduced to the level set at menu “Manual Setup” – “Option Setup” – “Volume Control” – “Mute Level”.
- To cancel, press [MUTE] again. Muting can also be canceled by adjusting the master volume.

#### Listening with Headphones

Plug the headphones into the PHONES jack on the main unit.

The sound from the speakers and pre-out connectors is automatically cut.

**NOTE**

Be careful not to set the volume too high when using headphones.

#### Switching the front speakers

Press SPEAKERS.

- Front A
- Front A+B

**NOTE**

When set to “Custom”, SPEAKERS does not operate.

---

**Symbols used to indicate buttons in this manual**

- Button located on both the main unit and the remote control unit
- Button only on the main unit
- Button only on the remote control unit

**Operations During Playback**

**Preparations**

**Turning the Power On**

1. Press <POWER>.
   - The power indicator lights red and the power is set to the standby mode.

2. Press <ON/STANDBY> or [POWER ON].
   - The power indicator flashes green and the power turns on.
   - Also press [SOURCE SELECT] when in standby mode, the power turns on. In this case the input source is selected by main remote control unit.
   - Also press [QUICK SELECT] when in standby mode, the power turns on. In this case Quick Select is selected.

**Turning the Power Off**

1. Press <ON/STANDBY> or [POWER OFF].
   - The power is set to the standby mode.

2. Press <POWER>.
   - The power indicator turns off, and so does the power.

**NOTE**

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, either press <POWER> to turn off the power, or unplug the power cord from the power outlet.

**Selecting the Input Source**

Select the source using SOURCE SELECT.

- Turn <SOURCE SELECT> or press [SOURCE SELECT] to switch between input sources.

*If “ZONE2/3 / Rec Select”, “Tuning Preset” or “Video Select” is selected, press <SOURCE> before turning <SOURCE SELECT>.*
Playing Video and Audio Equipment

### Basic Operation

1. **Prepare the equipment.**
   - Load the BD, DVD, CD or other software in the player.
   - To play a video equipment, switch the monitor input.

2. **Use SOURCE SELECT to select the input source.**

3. **Start playback.**
   - See the operating instructions of the respective equipment.

### Listening to FM/AM Broadcasts

#### Basic Operation

1. **Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select “TUNER”.**
2. **When using the main remote control unit to operate, press [NET/TU] to select [DMRZ] mode.**
3. **Press [BAND] to select “FM” or “AM”.**
4. **Tune in the desired broadcast station.**
   - To tune in automatically (Auto Tuning)
     - Press [MODE] to light the “AUTO” indicator on the display, then use [△ ▽] to select the station you want to hear.
   - To tune in manually (Manual Tuning)
     - Press [MODE] to turn off the display’s “AUTO” indicator, then use [△ ▽] to select the station you want to hear.

#### Presetting Radio Stations (Preset Memory)

Your favorite broadcast stations can be preset so that you can tune them in easily. Up to 56 stations can be preset.

1. **Tune in the broadcast station you want to preset.**
2. **Press [MEMO].**
3. **Press [A ~ G] to select the block in which the station is to be preset.**
4. **Press [CHANNEL + –] or [NUMBER (1 ~ 8)] to select the preset number.**
5. **Press [MEMO] again to complete the setting.**

#### Direct Frequency Tuning

You can enter the receiving frequency directly to tune in.

1. **Press [SEARCH].**
2. **Input frequencies by means of [NUMBER (0 ~ 9)].**
   - If [.creation] is pressed, the immediately preceding input is cancelled.
3. **When setting is completed, press [ENTER].**
   - The preset frequency is tuned in.

#### Default settings

<table>
<thead>
<tr>
<th>Auto tuner presets</th>
<th>87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 – A8</td>
<td>87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 MHz</td>
</tr>
<tr>
<td>B1 – B8</td>
<td>522 / 633 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 MHz</td>
</tr>
<tr>
<td>C1 – C8</td>
<td>90.1 MHz</td>
</tr>
<tr>
<td>D1 – D8</td>
<td>90.1 MHz</td>
</tr>
<tr>
<td>E1 – E8</td>
<td>90.1 MHz</td>
</tr>
<tr>
<td>F1 – F8</td>
<td>90.1 MHz</td>
</tr>
<tr>
<td>G1 – G8</td>
<td>90.1 MHz</td>
</tr>
</tbody>
</table>

| NOTE |

Preset stations are erased by overwriting them.

### Remote Control

The main remote control unit can be used to operate external devices. See “Remote Control Unit Operations” (page 56).

### Listening to Preset Stations

1. Press <TUNING PRESET>, then turn <SOURCE SELECT> to select the preset radio station.


3. Press [CHANNEL + –] or [NUMBER (1 ~ 8)] to select the desired preset channel.

---

1. Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select “TUNER”.
2. When using the main remote control unit to operate, press [NET/TU] to select [DMRZ] mode.
3. Press [BAND] to select “FM” or “AM”.
4. Tune in the desired broadcast station.
   - To tune in automatically (Auto Tuning)
     - Press [MODE] to light the “AUTO” indicator on the display, then use [△ ▽] to select the station you want to hear.
   - To tune in manually (Manual Tuning)
     - Press [MODE] to turn off the display’s “AUTO” indicator, then use [△ ▽] to select the station you want to hear.

- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold [△ ▽] to change frequencies continuously.
- The time (default : 30 sec) for which the on-screen display are displayed can be set at “Manual Setup” – “Option Setup” – “On-Screen Display” (page 32).
   - Press △ ▽ to return to the original screen.

- To preset other stations, repeat steps 1 to 5.
- Stations can be preset automatically at menu “Input Setup” – “Auto Preset” (page 34).

- Preset stations are erased by overwriting them.

- To preset other stations, repeat steps 1 to 5.
- Stations can be preset automatically at menu “Input Setup” – “Auto Preset” (page 34).
- Press △ ▽ to return to the original screen.

- The main remote control unit can be used to operate external devices. See “Remote Control Unit Operations” (page 56).

- Default settings

- Auto tuner presets
  - A1 – A8: 87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 MHz
  - B1 – B8: 522 / 633 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 MHz
  - C1 – C8: 90.1 MHz
  - D1 – D8: 90.1 MHz
  - E1 – E8: 90.1 MHz
  - F1 – F8: 90.1 MHz
  - G1 – G8: 90.1 MHz

- Direct Frequency Tuning
  - You can enter the receiving frequency directly to tune in.

- Press [SEARCH].
- Input frequencies by means of [NUMBER (0 ~ 9)].
  - If [creation] is pressed, the immediately preceding input is cancelled.
- When setting is completed, press [ENTER].
  - The preset frequency is tuned in.
Getting Started

Connections

Setup

Remote Control

Multi-zone

Information

Troubleshooting

Specifications

RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal. The following three types of RDS information can be received with this unit:

Program Type (PTY)

PTY identifies the type of RDS program. The program types and their displays are as follows:

<table>
<thead>
<tr>
<th>Type</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEWS</td>
<td>News</td>
</tr>
<tr>
<td>AFFAIRS</td>
<td>Current Affairs</td>
</tr>
<tr>
<td>INFO</td>
<td>Information</td>
</tr>
<tr>
<td>SPORT</td>
<td>Sports</td>
</tr>
<tr>
<td>EDUCATE</td>
<td>Education</td>
</tr>
<tr>
<td>DRAMA</td>
<td>Drama</td>
</tr>
<tr>
<td>CULTURE</td>
<td>Culture</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>Science</td>
</tr>
<tr>
<td>VARIED</td>
<td>Varied</td>
</tr>
<tr>
<td>POP M</td>
<td>Pop Music</td>
</tr>
<tr>
<td>ROCK M</td>
<td>Rock Music</td>
</tr>
<tr>
<td>EASY M</td>
<td>Easy Listening Music</td>
</tr>
<tr>
<td>LIGHT M</td>
<td>Light Classical</td>
</tr>
<tr>
<td>CLASSICS</td>
<td>Serious Classical</td>
</tr>
<tr>
<td>OTHER M</td>
<td>Other Music</td>
</tr>
<tr>
<td>WEATHER</td>
<td>Weather</td>
</tr>
<tr>
<td>FINANCE</td>
<td>Finance</td>
</tr>
<tr>
<td>CHILDREN</td>
<td>Children’s programmes</td>
</tr>
<tr>
<td>SOCIAL</td>
<td>Social Affairs</td>
</tr>
<tr>
<td>RELIGION</td>
<td>Religion</td>
</tr>
<tr>
<td>PHONE IN</td>
<td>Phone In</td>
</tr>
<tr>
<td>TRAVEL</td>
<td>Travel</td>
</tr>
<tr>
<td>LEISURE</td>
<td>Leisure</td>
</tr>
<tr>
<td>JAZZ</td>
<td>Jazz Music</td>
</tr>
<tr>
<td>COUNTRY</td>
<td>Country Music</td>
</tr>
<tr>
<td>NATION M</td>
<td>National Music</td>
</tr>
<tr>
<td>OLDIES</td>
<td>Oldies Music</td>
</tr>
<tr>
<td>FOLK M</td>
<td>Folk Music</td>
</tr>
<tr>
<td>DOCUMENT</td>
<td>Documentary</td>
</tr>
</tbody>
</table>

Traffic Program (TP)

TP identifies programs that carry traffic announcements. This allows you to easily find out the latest traffic conditions in your area before leaving home.

Radio Text (RT)

RT allows RDS stations to send text messages that appear on the display.

NOTE

The operations described below using [SEARCH] will not function in areas in which there are no RDS broadcasts.

To end RDS search / PTY search / TP search / RT

- Do not operate anything for 15 seconds.
- When setting RT, press [SEARCH].

RDS Search

Use this function to automatically tune to FM stations that provide the RDS service.

1. Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select “TUNER”.

2. When using the main remote control unit to operate, press [NET/TU] to select [DEV2] mode. (See page 56 “Remote Control Unit Operations”)

3. Press [SEARCH] twice to select “RDS”.

4. Press [CHANNEL + –]. The search for RDS stations begins automatically.

   • If no RDS stations are found with the above operation, all the reception bands are searched.
   • When a broadcast station is found, that station’s name appears on the display.

5. To continue searching, repeat steps 2 and 3.

   • If no RDS station is found when all the frequencies have been searched, “NO RDS” is displayed.

PTY Search

Use this function to find RDS stations broadcasting a designated program type (PTY).

For a description of each program type, refer to “Program Type (PTY)”.

1. Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select “TUNER”.

2. When using the main remote control unit to operate, press [NET/TU] to select [DEV2] mode. (See page 56 “Remote Control Unit Operations”)

3. Press [SEARCH] to select “PTY”.

4. Watching the display, press △ ▽ to call out the desired program type.
5 Press [CHANNEL + –].
PTY search begins automatically.
※ If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
※ The station name is displayed on the display after searching stops.

6 To continue searching, repeat steps 2 to 4.
※ If no station broadcasting the designated program type is found when all the frequencies have been searched, “NO PROGRAMME” is displayed.

TP Search
Use this function to find RDS stations broadcasting traffic programs (TP stations).

1 Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select “TUNER”.
2 When using the main remote control unit to operate, press [NET/TU] to select [DEV2] mode.
   (Refer to page 56 “Remote Control Unit Operations”)
3 Press [SEARCH] to select “TP”.
4 Press [CHANNEL + –].
   TP search begins automatically.
※ If no TP station is found with the above operation, all the reception bands are searched.
※ The station name is displayed on the display after searching stops.
5 To continue searching, repeat steps 2 and 3.
※ If no other TP station is found when all the frequencies have been searched, “NO PROGRAMME” is displayed.

RT (Radio Text)
“RT” appears on the display when radio text data is received.

1 Either turn <SOURCE SELECT> or press [TUNER] (AMP mode) to select “TUNER”.
2 When using the main remote control unit to operate, press [NET/TU] to select [DEV2] mode.
   (Refer to page 56 “Remote Control Unit Operations”)
3 Press [SEARCH] to select “RT”.
   ※ While receiving an RDS broadcast station, the text data broadcast from the station is displayed.
   ※ To turn the display off, press <1>.<1>
   ※ If no text data is being broadcast, “NO TEXT DATA” is displayed.

iPod® Playback
The music on an iPod can be played by using the control dock for iPod (ASD-1R, ASD-3N or ASD-3W sold separately). The operation can also be performed using the buttons on the main unit or main remote control unit while watching the menus.

1 Make the necessary preparations.
   Set the iPod in the DENON control dock for iPod.
   (See the control dock for iPod’s operating instructions.)
   Assign the control dock for iPod’s input.
   The input for the control dock for iPod is assigned to VCR by default.

2 Either turn <SOURCE SELECT> or press [iPod] to select the input source assigned in step 1-2 above.
3 To operate using the main remote control unit, set the remote control unit to the iPod mode.
   (Refer to page 56 “Remote Control Unit Operations”)
4 Press [SEARCH] and hold it down for a 2 seconds or more to select the display mode.
   To switch between modes, press and hold down the button. When remote mode is active, “Remote” is displayed.

[Selectable mode] | Browse mode | Remote mode
--- | --- | ---
Display location | Main unit display | iPod display
Playable files | Audio file | ○ | ○
   Video file | ○ | 1 | 2
Active buttons | Remote control unit (AVR-2809) | ○ | ○
   iPod | × | ○
   "Input Setup” – “Assign” – “iPod Dock”
   (Refer to page 37)

※1: When using an ASD-3N or ASD-3W control dock for iPod.
※2: Video may not be output, depending on the combination of ASD-1R and iPod.

Basic Operation

1 Set the iPod in the DENON control dock for iPod.
2 Assign the control dock for iPod’s input.
   The input for the control dock for iPod is assigned to VCR by default.

(Refer to page 37)

Troubleshooting

- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is “Mode3” (Refer to page 45).
- Press <ON/STANDBY> or [POWER OFF] and set the AVR-2809’s power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the menu “iPod Dock” is not assigned before disconnecting the iPod.
- When using an ASD-3N or ASD-3W control dock for iPod, refer to the respective manual to operate.
Listening to Music

1 Use \( \Delta \nabla \) to select the menu, then press ENTER or \( \triangleright \) to select the music file to be played.

2 Press ENTER or \( \triangleright \). Playback starts.

- **Stopping playback temporarily**
  During playback, press ENTER or [\( \triangleright \)] or [\( \triangleright \triangleright \)] (to fast-reverse) or [\( \triangleright \triangleright \triangleright \)] (to fast-forward).

- **Fast-forwarding or fast-reversing**
  During playback, either press and hold [\( \triangleright \triangleright \)] (to fast-reverse) or [\( \triangleright \triangleright \triangleright \)] (to fast-forward).

- **To cue to the beginning of a track**
  During playback, either press [\( \nabla \nabla \nabla \nabla \)] (to cue to the previous track) or [\( \triangleright \triangleright \)] (to cue to the next track).

- **To stop**
  During playback, either press and hold ENTER or press [\( \nabla \nabla \nabla \nabla \)].

- **Playing repeatedly**
  Press [CHANNEL –].

- **Shuffling playback**
  Press [CHANNEL +].

  - When DENON control dock for iPod ASD-1R is connected
    [Selectable items] Albums Songs OFF
  - When DENON control dock for iPod ASD-3N/3W is connected
    [Selectable items] ON OFF

**NOTE**
- Depending on the type of iPod and the software version, some functions may not operate.
- DENON will accept no responsibility whatsoever for any loss of iPod data.

Viewing Still Pictures or Videos on the iPod

Photo and video data on the iPod can be viewed on the monitor. Only for iPod equipped with slideshow or video functions. (When using an ASD-1R)

1 Press and hold [SEARCH] to set the Remote mode.

2 Watching the iPod’s screen, use \( \Delta \nabla \) to select “Photos” or “Videos”.

3 Press [ENTER] until the image you want to view is displayed.

- “TV Out” at the iPod’s “Slideshow Settings” or “Video Settings” must be set to “On” in order to display the iPod’s photo data or videos on the monitor. For details, see the iPod’s operating instructions.
- When viewing an iPod video file, select “iPod” - “Video” in browse mode. (When using an ASD-3N or ASD-3W)

**NOTE**
- “TV Out” at the iPod’s “Slideshow Settings” or “Video Settings” must be set to “On” in order to display the iPod’s photo data or videos on the monitor. For details, see the iPod’s operating instructions.
- When viewing an iPod video file, select “iPod” - “Video” in browse mode. (When using an ASD-3N or ASD-3W)
Other Operations and Functions

Other Operations

Playing Super Audio CD

1. Assign the HDMI input connector at the “HDMI” setting (page 37).
2. Either turn <SOURCE SELECT> or press [SOURCE SELECT] to select the input source assigned in step 1.
   The “HDMI” indicator lights on the display.
3. Press INPUT MODE to select “AUTO” (page 36).
   Select the input mode according to the program source to be played.
4. Select the surround mode (page 38 ~ 40).
   We recommend playing in the DIRECT mode.
5. Start playing the Super Audio CD.
   The “DSD” indicator lights on the display.
   For operating instructions, refer to the respective equipment’s operating instructions.

• When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted as such into analog signals. When playing in other surround modes, the DSD signals are first converted into PCM format, then into analog signals.
• “DSD DIRECT” is shown on the display when playing DSD 2-channel signals in the DIRECT mode. “DSD MULTI DIRECT” is shown on the display when playing DSD multi-channel signals in the DIRECT mode.

Recording on an External Equipment (REC OUT mode)

You can listen to one program source while recording a different program source.

1. Press <ZONE2/3 / REC SELECT>.
   The ZONE2 or ZONE3 selection mode changes each time you press the button, and “ZONE2 Source” or “ZONE3 Source” is displayed.
2. Turn <SOURCE SELECT> until “RECOU Source” is displayed.
   The “REC” indicator lights.
   During ZONE2/Rec Select
   ZONE2 Source    ZONE2 TUNER    ZONE2 VAUX
   RECOU VAUX     RECOU TUNER    RECOU Source
3. Turn <SOURCE SELECT> to choose the input source to be recorded.
4. Play the program source.
   For operating instructions, refer to the respective equipment’s operating instructions.
   To record FM or AM broadcasts, select the broadcast (page 49).
5. Start recording.
   For operating instructions, refer to the respective equipment’s operating instructions.

• To cancel, press <ZONE2/3 / REC SELECT>, then turn <SOURCE SELECT> until “ZONE2 Source” is displayed.
• Make a test recording before starting the actual recording.
• Signals are only output to the analog REC OUT connectors when the digital signals input to the digital input connectors (OPTICAL/COAXIAL) are PCM (2-channel) signals.
• Digital audio signals input to the HDMI connectors are not output to the REC OUT connectors, so connect using the OPTICAL or COAXIAL connectors.
• Sources selected with the REC OUT mode are output from ZONE2 as well.
• In the REC OUT mode, the remote control unit’s ZONE2 mode buttons cannot be operated.

NOTE
• Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
• Input sources for which “Delete” is selected at “Source Delete” cannot be selected.

Recording on an External Equipment (REC OUT mode)

1. Press <ZONE2/3 / REC SELECT>.
   The ZONE2 or ZONE3 selection mode changes each time you press the button, and “ZONE2 Source” or “ZONE3 Source” is displayed.
2. Turn <SOURCE SELECT> until “RECOU Source” is displayed.
   The “REC” indicator lights.
   During ZONE2/Rec Select
   ZONE2 Source    ZONE2 TUNER    ZONE2 VAUX
   RECOU VAUX     RECOU TUNER    RECOU Source
3. Turn <SOURCE SELECT> to choose the input source to be recorded.
4. Play the program source.
   For operating instructions, refer to the respective equipment’s operating instructions.
   To record FM or AM broadcasts, select the broadcast (page 49).
5. Start recording.
   For operating instructions, refer to the respective equipment’s operating instructions.

• To cancel, press <ZONE2/3 / REC SELECT>, then turn <SOURCE SELECT> until “ZONE2 Source” is displayed.
• Make a test recording before starting the actual recording.
• Signals are only output to the analog REC OUT connectors when the digital signals input to the digital input connectors (OPTICAL/COAXIAL) are PCM (2-channel) signals.
• Digital audio signals input to the HDMI connectors are not output to the REC OUT connectors, so connect using the OPTICAL or COAXIAL connectors.
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• Input sources for which “Delete” is selected at “Source Delete” cannot be selected.

Recording on an External Equipment (REC OUT mode)

1. Press <ZONE2/3 / REC SELECT>.
   The ZONE2 or ZONE3 selection mode changes each time you press the button, and “ZONE2 Source” or “ZONE3 Source” is displayed.
2. Turn <SOURCE SELECT> until “RECOU Source” is displayed.
   The “REC” indicator lights.
   During ZONE2/Rec Select
   ZONE2 Source    ZONE2 TUNER    ZONE2 VAUX
   RECOU VAUX     RECOU TUNER    RECOU Source
3. Turn <SOURCE SELECT> to choose the input source to be recorded.
4. Play the program source.
   For operating instructions, refer to the respective equipment’s operating instructions.
   To record FM or AM broadcasts, select the broadcast (page 49).
5. Start recording.
   For operating instructions, refer to the respective equipment’s operating instructions.

• To cancel, press <ZONE2/3 / REC SELECT>, then turn <SOURCE SELECT> until “ZONE2 Source” is displayed.
• Make a test recording before starting the actual recording.
• Signals are only output to the analog REC OUT connectors when the digital signals input to the digital input connectors (OPTICAL/COAXIAL) are PCM (2-channel) signals.
• Digital audio signals input to the HDMI connectors are not output to the REC OUT connectors, so connect using the OPTICAL or COAXIAL connectors.
• Sources selected with the REC OUT mode are output from ZONE2 as well.
• In the REC OUT mode, the remote control unit’s ZONE2 mode buttons cannot be operated.

NOTE
• Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
• Input sources for which “Delete” is selected at “Source Delete” cannot be selected.
HDMI Control Function

When AVR-2809 is connected to a TV and player compatible with HDMI control function, you can perform the following operations.
Settings other than AVR-2809 settings must be made on the respective devices. (Check the operating instructions of each device for details.)

- AVR-2809 power off can be linked to the TV power off step. When you set “Output audio from amp” in the TV audio output setup operation, you can switch the amp power on.
- You can switch audio output devices with a TV operation. (When outputting from the TV speakers, output switches from speakers connected to AVR-2809).
- You can adjust AVR-2809 volume in the TV volume adjustment operation.
- You can switch AVR-2809 functions through linkage to TV input function switching.
- When playing the player, the AVR-2809 input function switches to the function of that player.

- When you want to listen to TV audio by AVR-2809, connect optical digital or analog (page 14).
- If the TV you are using has both connection jacks, use the optical digital connection.
- When using these functions set as follows: menu “Manual Setup” – “HDMI Setup” – “HDMI Control” set to “ON” (page 28).

NOTE
When using the HDMI control function, do not assign HDMI input to “TV/CBL” by setting “Input Setup” – “Assign” – “HDMI In” in the menu.

1. Connect the HDMI to the AVR-2809 with equipment compatible with the HDMI control function.
2. Put the power on for all the equipment connected to the HDMI.
3. Check the settings for all the equipment connected to the HDMI and make HDMI available to them.
4. Switch the television input to the HDMI connected to the AVR-2809.
5. Switch the AVR-2809 input to the HDMI input source and check if the picture from the player is ok.
6. Put the television power on standby and check if the AVR-2809 goes into standby.

If the AVR-2809 does not work please check the following.
- Is the menu “Manual Setup” – “HDMI Setup” – “HDMI Control” (page 28) set to “ON”?
- Is the menu “Manual Setup” – “HDMI Setup” – “Power Off Control” (page 29) set to “ON”?
- Is the control function used for the television HDMI properly set? (Check the television operating instructions for details.)
- Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat step’s 2 and 3.
  - Menu “Input Setup” – “Assign” – “HDMI In” (page 37) setting has changed.
  - There is a change to the connection between the equipment and the HDMI, or an increase in equipment.
Channel Level
You can adjust the channel level either according to the playback sources or to suit your taste, as described below.

1 Press CH SELECT/ENTER.

<table>
<thead>
<tr>
<th>Channel Level</th>
<th>Channel Volume</th>
<th>Fader</th>
<th>FRONT:REAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL 0.0 dB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SR 0.0 dB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FR 0.0 dB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBL 0.0 dB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW 0.0 dB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SL 0.0 dB</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fader Function
This function lets you adjust (fade) the sound from all the front or rear speakers at once.

1 Press CH SELECT/ENTER.

2 Use △ ▽ or CH SELECT/ENTER to select “Fader”.

3 Use < > to adjust the volume.

NOTE
When the input source is “iPod”, you cannot perform channel level setting.

Quick Select Function
With this function, the currently playing input source, input mode, surround mode, MultEQ XT settings and volume can be stored in the memory.

1 Set the input source, surround mode, MultEQ XT, Dynamic EQ, Dynamic Volume, Front Speaker settings and volume to the conditions you want to store.

2 Press and hold the desired QUICK SELECT until “Memory” appears on the display.
The current settings will be memorized.

[Quick Select Defaults]

<table>
<thead>
<tr>
<th>Quick Select</th>
<th>Input Source</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick Select 1</td>
<td>DVD</td>
<td>–40 dB</td>
</tr>
<tr>
<td>Quick Select 2</td>
<td>TV/CBL</td>
<td>–40 dB</td>
</tr>
<tr>
<td>Quick Select 3</td>
<td>VCR</td>
<td>–40 dB</td>
</tr>
</tbody>
</table>

Personal Memory Plus Function
This function sets the settings (input mode, surround mode, HDMI output mode, MultEQ XT, Dynamic EQ, Dynamic Volume, audio delay etc.) last selected for the individual input sources. When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.

The surround parameters, tone settings and the volumes of the different speakers are stored for the individual surround modes.

Last Function Memory
This stores the settings as they were directly before the standby mode was set. When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

Backup Memory
The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

Resetting the Microprocessor
Perform this procedure if the display is abnormal or if operations cannot be performed. When the microprocessor is reset, all the settings are reset to their default values.

1 Turn off the power using <POWER>.

2 Press <POWER> while simultaneously pressing <STANDARD> and <DSP SIMULATION>.

3 Once the display starts flashing at intervals of about 1 second, release the two buttons.

If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.
Remote Control Unit Operations

Main Remote Control Unit (RC-1102)

- On the main remote control unit, the display switches according to the device being operated and the mode.
- In modes other than iPod, the mode switches between “DEV1” and “DEV2” each time the [MODE SELECTOR] is pressed.
- In the AMP, TUNER and iPod modes, when the remote ID is set, the AVR-2809 can be used independently even in an environment containing multiple DENON amplifiers.

![Remote Control Unit Diagram]

Signal transmission indicator

- [AMP]
- [MODE SELECTER]
- [POWER ON], [POWER OFF]
- [HOME]
- [NUMBER (0 ~ 9)]
- [RC SETUP]

Operating DENON Audio Components

1. Press [MODE SELECTOR] for the component to be operated.
   - The indicator for the component to be operated flashes.
   - The mode switches each time [AMP] is pressed.

- AMP / ZONE2 / ZONE3 / ZONE4 / SYSTEM CALL
- iPod
- Blu-ray Disc player / DVD player (Recorder) / CD player (Recorder)
- Satellite receiver / Cable TV
- VCR / TAPE
- TV

※ The SAT TU (DEV1), NET/TU (DEV1) mode is not used on the AVR-2809, so use the learn function to store the signals (see page 59).

Operating Preset Components

1. Press [MODE SELECTOR] for the device you want to preset.
2. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
3. Press [NUMBER] and input the 5-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (see End of this manual).
   - When the code is registered, the signal transmission indicator flashes twice.
   - When the preset code is transmitted, the mode indicator for the component to which that code belongs flashes.
   ※ The input mode is canceled if no button is operated for 10 seconds.

Some brands have more than one preset code. If the component does not operate, try inputting a different code.

Presetting

The included main remote control unit can be preset to operate devices of various brands.

1. Press [MODE SELECTOR] for the device you want to preset.
2. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
3. Press [NUMBER] and input the 5-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (see End of this manual).
   - When the code is registered, the signal transmission indicator flashes twice.
   - When the preset code is transmitted, the mode indicator for the component to which that code belongs flashes.
   ※ The input mode is canceled if no button is operated for 10 seconds.

Some brands have more than one preset code. If the component does not operate, try inputting a different code.

NOTES

- The device mode (“DEV1” or “DEV2”) cannot be changed while the setting is being made.

- [HOME] is used to return to the AMP mode (AMP, ZONE2, ZONE3, ZONE4 or SYSTEM CALL) when in any mode other than AMP.
- In ZONE2, ZONE3 and ZONE4 modes, you can switch the main zone power on or off by pressing [POWER ON] or [POWER OFF].

- Depending on the model and year of manufacture of your equipment, some buttons may not operate.

- The device mode (“DEV1” or “DEV2”) cannot be changed while the setting is being made.
## Functions of Buttons by Component

### Buttons

<table>
<thead>
<tr>
<th>Buttons</th>
<th>DVD</th>
<th>VCR</th>
<th>iPod</th>
</tr>
</thead>
<tbody>
<tr>
<td>[MODE SELECTOR]</td>
<td>DVD player</td>
<td>DVD recorder</td>
<td>Blu-ray Disc player</td>
</tr>
<tr>
<td>[SOURCE ON], [SOURCE OFF]</td>
<td>Playback</td>
<td>Playback</td>
<td>Playback</td>
</tr>
<tr>
<td>[MENU/SEARCH] [SETUP/RESTORER] [CH + / SHUFFLE], [CH – / REPEAT] [TOP MENU] [NUMBER (0 ~ 9, +10)]</td>
<td>Auto search (cue)</td>
<td>Auto search (cue)</td>
<td>Auto search (cue)</td>
</tr>
<tr>
<td>[CH +]</td>
<td>Pause</td>
<td>Pause</td>
<td>Pause</td>
</tr>
<tr>
<td>[CH –]</td>
<td>Stop</td>
<td>Stop</td>
<td>Stop</td>
</tr>
<tr>
<td>[SOURCE ON]</td>
<td>Power on</td>
<td>Power on</td>
<td>Power on</td>
</tr>
<tr>
<td>[SOURCE OFF]</td>
<td>Power off</td>
<td>Power off</td>
<td>Power off</td>
</tr>
</tbody>
</table>

### EL Display

<table>
<thead>
<tr>
<th>Device Mode</th>
<th>DVD</th>
<th>VCR</th>
<th>iPod</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device operated</td>
<td>DVD player</td>
<td>DVD recorder</td>
<td>Blu-ray Disc player</td>
</tr>
<tr>
<td>[SOURCE ON], [SOURCE OFF]</td>
<td>Playback</td>
<td>Playback</td>
<td>Playback</td>
</tr>
<tr>
<td>[CH –]</td>
<td>Pause</td>
<td>Pause</td>
<td>Pause</td>
</tr>
<tr>
<td>[SOURCE ON]</td>
<td>Power on</td>
<td>Power on</td>
<td>Power on</td>
</tr>
<tr>
<td>[SOURCE OFF]</td>
<td>Power off</td>
<td>Power off</td>
<td>Power off</td>
</tr>
</tbody>
</table>

### Buttons

<table>
<thead>
<tr>
<th>Buttons</th>
<th>DVD</th>
<th>VCR</th>
<th>iPod</th>
</tr>
</thead>
<tbody>
<tr>
<td>[CH +]</td>
<td>Random</td>
<td>–</td>
<td>Random</td>
</tr>
<tr>
<td>[CH –]</td>
<td>Repeat</td>
<td>–</td>
<td>Repeat</td>
</tr>
</tbody>
</table>

### Special Remarks

1. Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.
2. The names of the functions for the DVD remote control buttons differ from brand to brand. Check beforehand.
3. You can operate Blu-ray Disc player in the DVD player default code (excluding Top menu). Also, when you change the remote ID of Blu-ray Disc player to “DENON2”, preset “322B8”.
**Getting Started**

**Connections**

**Setup**

**Playback**

**Multi-zone**

**Information**

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**Specifications**

---

**ENGLISH**

**Specifications**

- **[MODE SELECTOR]**
  - [MODE SELECTOR]
  - [A ~ G], [BAND], [MODE], [MEMO]

- **[SEARCH]**
  - [SEARCH]

- **[CH +/–]**
  - [CH +/–]

- **[NUMBER (0 ~ 9)]**
  - [NUMBER (0 ~ 9)]

- **[SHIFT]**
  - [SHIFT]

- **[TV/VCR]**
  - [TV/VCR]

**Buttons**

- **[MENU]**
  - [MENU]

- **[ENTER]**
  - [ENTER]

- **[SETUP]**
  - [SETUP]

- **[DISPLAY]**
  - [DISPLAY]

**EL Display**

<table>
<thead>
<tr>
<th>MODE SELECTOR</th>
<th>TV</th>
<th>Satellite Receiver / Cable TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Mode</td>
<td>[DEV1]</td>
<td>[DEV2]</td>
</tr>
<tr>
<td>Device operated</td>
<td>TV (HITACHI)</td>
<td>TV (SONY)</td>
</tr>
<tr>
<td>[&gt;]</td>
<td>Punch through</td>
<td>Punch through</td>
</tr>
<tr>
<td>[&lt;]</td>
<td>Punch through</td>
<td>Punch through</td>
</tr>
</tbody>
</table>

**Special Remarks**

1. Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.
2. The CD, VCR or DVD buttons (one only set) can be assigned to the TV, satellite receiver and cable TV mode (page 60 “Punch Through Function”).
3 Refer to the table at the below, and use [NUMBER] to input the 5-digit number corresponding to the remote ID to be changed.
The signal transmission indicator flashes twice.

4 Press [NET/TU] (DEV2 mode) or [iPod] to select the mode to be set.

5 Repeat steps 2 to 4 to set the remote IDs for all modes.

### Table

<table>
<thead>
<tr>
<th>Remote ID</th>
<th>AMP (MAIN)</th>
<th>iPod</th>
<th>NET/TU (DEV2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Default)</td>
<td>81001</td>
<td>72815</td>
<td>62863</td>
</tr>
<tr>
<td>2</td>
<td>82001</td>
<td>72816</td>
<td>62275</td>
</tr>
<tr>
<td>3</td>
<td>83001</td>
<td>72817</td>
<td>62276</td>
</tr>
<tr>
<td>4</td>
<td>84001</td>
<td>72818</td>
<td>62277</td>
</tr>
</tbody>
</table>

**NOTE**
- When changing a setting, be sure to set the same remote ID as the AVR-2809's (page 33).
- When changing the AMP mode's remote ID, also change the "NET/TU" and "iPod" remote ID at the same time.

4 Press the button to be set.
The main remote control unit’s display turns off.
※ If a button that cannot be learned is pressed, the signal transmission indicator lights but the signal is not learned.

5 Point the main remote control units directly at each other and press and hold the button on the other device’s remote control unit that you want to learn.
Once learning is completed normally, the display lights and the signal transmission indicator flashes twice.

6 Press and hold in [RC SETUP] for at least 3 seconds.
The signal transmission indicator flashes twice and the setting is completed.

**Learning Function**

If your AV devices are of a brand other than DENON or if they cannot be operated with the preset memory function, their remote control signals can be transferred to stored in the AVR-2809’s main remote control unit.

1 Press [MODE SELECTOR] for the device you want to set.

2 Press and hold in [RC SETUP] for at least 3 seconds.
The signal transmission indicator flashes twice.

3 Press [9], [7] and [5], in that order.
The signal transmission indicator flashes twice and the learning mode is set.

**NOTE**
- With some remote control units, the signals cannot be learned or the device will not operate properly even when the signals have been learned. In this case, use the device’s own remote control unit.
- Learned buttons have priority over the preset memory. If you no longer need the learned setting, reset the learning function (page 61).

- **[HOME]** cannot be learned.
- Do not learn any remote control signals at [RC SETUP].
- The AMP, ZONE2, ZONE3, ZONE4 and SYSTEM CALL modes cannot be learned.

**Setting the Remote ID**

When using multiple DENON AV receivers in the same room, make this setting so that only the desired AV receiver operates.

1 Press [AMP] to set the main remote control unit to the AMP mode.

2 Press and hold in [RC SETUP] for at least 3 seconds.
The signal transmission indicator flashes twice.
System Call Function
This function lets you register a series of operations at a single button.
For example, the amplifier can be turned on, the input source selected, the monitor’s power turned on, the source device’s power turned on and the play mode set all by pressing a single button.
Up to 32 signals each can be registered at [SYSTEM CALL] (1, 2 or 3).

1. Press [AMP], to select “SYSTEM CALL”.
2. Press [SYSTEM CALL] (1, 2 or 3) at which the signals were registered.
The registered signals are transmitted in the registered sequence.

Calling out

1. Press [AMP], to select “SYSTEM CALL”.
2. Press [SYSTEM CALL] (1, 2 or 3) at which the signals were registered.
The registered signals are transmitted in the registered sequence.

Registering

1. Press [MODE SELECTOR] for the device you want to register.
2. Press and hold in [RC SETUP] for at least 3 seconds.
The signal transmission indicator flashes twice.
3. Press [9], [7] and [8], in that order.
The signal transmission indicator flashes twice and the system call registration mode is set.
4. Press [SYSTEM CALL] (1, 2 or 3) at which you want to register the signals.
5. Press the buttons you want to register in the same sequence as the operations you want to perform.
The signal transmission indicator lights when a button is pressed.
Example: Press [POWER ON].
   Press [ ].
   ※ The mode can be switched by pressing [MODE SELECTOR].
   ※ Perform the registration procedure for all the buttons you want to register.
6. Press and hold in [RC SETUP] for at least 3 seconds.
The signal transmission indicator flashes twice and the setting is completed.

Punch Through Function
DVD (including BD and CD) or VCR mode buttons can be stored at unused TV or SAT/CBL mode buttons.
For example, when DVD mode buttons are assigned to the TV mode, the DVD mode operations can be performed while in the TV mode.

1. Press [MODE SELECTOR] for the device you want to punch through (DVD or VCR).
2. Press [MODE SELECTOR] for the device you want to punch through (TV or SAT/CBL).
3. Press and hold in [RC SETUP] for at least 3 seconds.
The signal transmission indicator flashes twice.
4. Press [9], [8] and [4], in that order.
The signal transmission indicator flashes twice and the punch through setting mode is set.
5. Press [MODE SELECTOR] for the device you want to punch through (DVD or VCR).
6. Press the button you want to punch through ( , , , , or )
7. Press [MODE SELECTOR] for the device you want to punch through (TV or SAT/CBL).
8. Press and hold in [RC SETUP] for at least 3 seconds.
The signal transmission indicator flashes twice and the setting is completed.
Setting the Time the Backlight Stays Lit

1. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
2. Press [9], [7] and [3], in that order. The signal transmission indicator flashes twice and the backlight on time setting mode is set.
3. Set the light on time. The signal transmission indicator flashes twice.
   - [Settable times]: [1]: 5 sec.
   - [2]: 10 sec. (Default)
   - [3]: 15 sec.
   - [4]: 20 sec.
   - [5]: 25 sec.

Adjusting the Backlight’s Brightness

The display’s brightness can be adjusted in 5 steps. (Default: Step 3)

1. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
2. Press [CHANNEL +] or [CHANNEL –]. The display gets one step brighter when [+] is pressed. The display gets one step darker when [–] is pressed.
3. Press [RC SETUP] to complete the setting.

Resetting the Main Remote Control Unit

Learning Function

[Resetting button by button]

1. Press [MODE SELECTOR] for the device you want to reset.
2. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
3. Press [9], [7] and [6], in that order. The signal transmission indicator flashes twice.
4. Press the button you want to reset twice. The signal transmission indicator flashes twice.

System Call Function

1. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
2. Press [9], [7] and [8], in that order. The signal transmission indicator flashes twice.
3. Press [SYSTEM CALL] (1, 2 or 3) you want to reset.
4. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

Punch-Through Function

1. Press [MODE SELECTOR] for the device you want to reset (TV or SAT/CBL).
2. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
3. Press [9], [8] and [4], in that order. The signal transmission indicator flashes twice.
4. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.

All Settings

1. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
2. Press [9], [8] and [1], in that order. The signal transmission indicator flashes twice.
   - All the settings are restored to their defaults.

Sub Remote Control Unit (RC-1106)

The sub remote control unit (RC-1106) included with the AVR-2809 can be used as the exclusive multi-zone remote control unit.

※ The following describes operation for the selected zone. (Use [ZONE SELECT] to switch zones.)

- Turning the multi-zone power on and off
- Selecting the input source to be played
- Adjusting and temporarily muting the multi-zone volume
- Listening to the tuner
- Operating an iPod (Note that the [FAVORITES DIRECT PLAY] can only be used with the ASD-3N/3W.)

Learning Function

[Resetting by device mode]

1. Press [MODE SELECTOR] for the device you want to reset.
2. Press and hold in [RC SETUP] for at least 3 seconds. The signal transmission indicator flashes twice.
3. Press [9], [7] and [6], in that order. The signal transmission indicator flashes twice.
4. Press [MODE SELECTOR] for the device you want to reset twice. The signal transmission indicator flashes twice.

Adjusting and temporarily muting the multi-zone volume

• Selecting the input source to be played
• Turning the multi-zone power on and off

The following describes operation for the selected zone.

[ZONE SELECT]: Switching the zone to be operated

[POWER OFF]: Power off
[POWER ON]: Power on
[SOURCE SELECT]: Switching the input source
[VOLUME + / –]: Volume control
[CHANNEL + / –]: Preset channel + / –
[MUTE]: Muting
[SHIFT]: Switching the memory block
[FAVORITES DIRECT PLAY]: Auto search (cue)
[REPEAT]: 1-track / All-track repeat play
[RANDOM]: 1-track / album shuffle play

※ When using a control dock for iPod (ASD-1R), [FAVORITES DIRECT PLAY] cannot be used.
The AVR-2809 is compatible with the following types of playback:
• Multi-zone playback (ZONE2 & ZONE3)
• Bi-amp playback (front speakers)

**NOTE**
• For bi-amp playback, use speakers compatible with that type of connection.
• When conducting bi-amp playback, remove the short-circuiting boards (or wires) from the speaker terminals.

## Multi-zone Settings with the Amp Assign Function

The amp assign function lets you assign the amplifiers for the different channels built into the AVR-2809 to the speaker outputs for the different zones. Select the desired playback environment from among “Setting 1” to “Setting 3”, then set the corresponding “Amp Assign” mode at menu “Manual Setup” – “Option Setup” – “Amp Assign” (page 31). Connect the speakers as described at “Amp Assign mode setting and speakers connected to the various speaker terminals”.

### Setting 1:
**7.1-channel playback (Default Setting)**

Amp Assign mode: 7.1ch (Default)

#### Amp Assign mode setting and speakers connected to the various speaker terminals

<table>
<thead>
<tr>
<th>Speaker terminal</th>
<th>FRONT</th>
<th>CENTER</th>
<th>SURROUND</th>
<th>SURROUND BACK / AMP ASSIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amp Assign mode</td>
<td>R</td>
<td>L</td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>7.1ch</td>
<td>FR</td>
<td>FL</td>
<td>C</td>
<td>SR</td>
</tr>
</tbody>
</table>

The surround back channel is output from the speakers connected to the SURR.BACK/AMP ASSIGN terminals.

### Setting 2:
**Multi-zone playback**
- 5.1-channel playback + ZONE2 or ZONE3 stereo playback
- 5.1-channel playback + ZONE2 + ZONE3 monaural playback

#### Amp Assign mode setting and speakers connected to the various speaker terminals

When ZONE2 or ZONE3 power is on, when you select “ZONE2” or “ZONE3” mode, ZONE2 or ZONE3 sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN terminal. Also, if you select “ZONE2/3-MONO” mode, ZONE2 monaural sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN (L) speaker, and ZONE3 monaural sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN (R) terminal.
Setting 3:
Making bi-amp connections for the FL and FR channels in the MAIN ZONE and conducting 5.1-channel playback
(switching with other modes not possible)

Amp Assign mode setting and speakers connected to the various speaker terminals

- **Amp Assign mode**: Front A Bi-Amp
- **FR-A**
- **FL-A**
- **FR-B**
- **FL-B**
- **C**
- **SR**
- **SL**

The Front A or Front B channel for Bi-Amp use is output from the speakers connected to the SURR.BACK/AMP ASSIGN terminals.

Multi-zone Settings and Operations with Zone Output

Prepare power amplifiers for ZONE2 and ZONE3.

<table>
<thead>
<tr>
<th>Zone</th>
<th>Connectors for audio output</th>
<th>Audio signals</th>
<th>Connectors for video output</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZONE2</td>
<td>ZONE2 PRE OUT</td>
<td>Stereo</td>
<td>ZONE2 VIDEO OUT</td>
</tr>
<tr>
<td>ZONE3</td>
<td>ZONE3 PRE OUT</td>
<td>Stereo</td>
<td>–</td>
</tr>
</tbody>
</table>

- **ZONE2 audio output**: Power amplifier
- **ZONE3 audio output**: Power amplifier

- **ZONE2 video output**: Multi-zone video cable
- **ZONE3 video output**: Multi-zone audio cable

- **When only using one speaker for ZONE2 or ZONE3, set to “Mono”. In this case, the ZONE2 (ZONE3) monaural output is output from the ZONE2 (ZONE3) pre-out L and R connectors, so connect as desired.**
- **Separate power amplifiers are needed for ZONE2 and ZONE3.**
Multi-zone Operations

Turning the Power On and Off

[Operation on the main unit]
Press <ZONE2 ON/OFF> or <ZONE3 ON/OFF> for the zone to be operated.
When the power turns on, the multi-zone indicator (ZONE2) or (ZONE3) lights on the display.

[Operation on the remote control unit]
In the zone mode you want to operate, press [ZONE2 ON], [ZONE3 ON] or [ZONE2 OFF], [ZONE3 OFF].

Also press [SOURCE SELECT] when in standby mode, the power turns on.
When using ZONE2 or ZONE3, it is possible to turn the power for the MAIN ZONE only on or off by pressing [MAIN ZONE ON] or [MAIN ZONE OFF].

Turning off the Sound Temporarily

In the zone mode for which you want to mute the sound, press [MUTE].
The sound is reduced to the level set at menu “Manual Setup” – “Zone Setup” – “(select the zone)” – “Mute Level” (page 31). To cancel, either adjust the volume or press [MUTE] again.
The setting is canceled when the zone’s power is turned off.

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

NOTE
• Digital audio signals input from the HDMI connectors cannot be played in multi-zone.
• When certain digital signals are being input, noise may be output from the ZONE2 and ZONE3 audio output connectors.

Selecting the Input Source

[Operation on the main unit]
1. Press <ZONE2/3 / REC SELECT> and select the zone to be adjusted.
2. Turn [SOURCE SELECT].

[Operation on the remote control unit]
In the zone mode you want to operate, press [SOURCE SELECT].

Adjusting the Volume

[Operation on the main unit]
1. Press <ZONE2/3 / REC SELECT> and select the zone to be adjusted.
2. Turn [VOLUME] to adjust.

[Operation on the remote control unit]
In the zone mode whose volume you want to adjust, press [VOLUME].

[Variable range] –70dB ~ –40dB ~ 18dB

• The volume can be increased up to the value set at menu “Manual Setup” – “Volume Setup” – “(select the zone)” – “Volume Level” is set to “VAR”.
The volume can be increased up to the value set at menu “Manual Setup” – “Zone Setup” – “(select the zone)” – “Volume Limit” (page 31).
• The volume for ZONE2 and ZONE3 can be adjusted with the remote control unit.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control unit
Button only on the main unit
Button only on the remote control unit
About Speaker Installation

Surround back speakers

Sound positioning directly to the rear can be achieved easily by adding a surround back speaker to a 5.1-channel system. In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Number of surround back speakers

We recommend using 2 speakers. When using dipolar speakers in particular, be sure to use 2 speakers.

Placement of the surround left and right channels when using surround back speakers

We recommend installing the speakers for the surround “L” and “R” channels a bit forward.

Examples of speaker layouts

Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

[1] Using surround back speaker(s)

- When mainly playing movies
  Recommended when your surround speakers are single or 2-way speakers.

- Setting for primarily watching movies using diffusion type speakers for the surround speakers
  For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar types, or dipolar types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.

Path of the surround sound from the speakers to the listening position

About Speaker Installation

Change of positioning and acoustic image with 5.1-channel systems

Movement of acoustic image from SR to SL

Change of positioning and acoustic image with 6.1-channel systems

Movement of acoustic image from SR to SB to SL

In addition to sources recorded in 6.1-channels, the surround effect of conventional 2- to 5.1-channel sources can also be enhanced.
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**Getting Started**

**ENGLISH**

movie sources in AV rooms as well. A real, overpowering sense of presence is achieved when playing sound field with a “three-dimensional” feeling (sense of distance, low frequencies. “C”), 2 surround channels (“SL” and “SR”) and the “LFE” channel for A total of 5.1-channels are played: 3 front channels (“FL”, “FR” and “C”), 2 surround channels (“SL” and “SR”) and the “LFE” channel for Because of this, there is no crosstalk between channels and a realistic sound field with a “three-dimensional” feeling (sense of distance, movement and positioning) is achieved. The AVR-2809 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

**Dolby Digital**

Dolby Digital is a multichannel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels (“FL”, “FR” and “C”), 2 surround channels (“SL” and “SR”) and the “LFE” channel for low frequencies. Because of this, there is no crosstalk between channels and a realistic sound field with a “three-dimensional” feeling (sense of distance, movement and positioning) is achieved. A real, overpowering sense of presence is achieved when playing movie sources in AV rooms as well.

**Dolby Digital Plus**

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1-channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback equipment.

**Dolby TrueHD**

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master. This format is compatible with a maximum sampling frequency of 96 kHz and up to 7.1-channels, so it is used for applications particularly prioritizing sound quality.

**Dolby Pro Logic II**

Dolby Pro Logic II is a matrix decoding technology developed by Dolby Laboratories. Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect. The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a “three-dimensional” sound image offering a rich sense of presence for all stereo sources.

**Dolby Pro Logic IIx**

Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology. Audio signals recorded in 2-channels are decoded to achieve a natural sound with up to 7.1-channels. There are 3 modes: “Music” suited for playing music, “Cinema” suited for playing movies, and “Game” which is optimized for playing games.

**Dolby Digital EX**

Dolby Digital EX is a 6.1-channel surround format proposed by Dolby Laboratories that allows users to enjoy in their homes the “DOLBY DIGITAL SURROUND EX” audio format jointly developed by Dolby Laboratories and Lucas Films. The 6.1 channels of sound, including surround back channels, provide improved sound positioning and expression of space.

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**Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.**

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**DTS Surround**

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

**DTS-HD High Resolution Audio**

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1-channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

**DTS-HD Master Audio**

DTS-HD Master Audio is DTS, Inc’s lossless audio format compatible with up to 96 kHz/7.1-channels. The lossless audio coding technology faithfully reproduces the sound of the studio master. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

**DTS-ES™ Discrete 6.1**

DTS-ES™ Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

**DTS-ES™ Matrix 6.1**

DTS-ES™ Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

**DTS NEO:6™ Surround**

DTS NEO:6™ is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes “DTS NEO:6 Cinema” suited for playing movies and “DTS NEO:6 Music” suited for playing music.
**DTS 96/24**

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

Manufactured under license under U.S. Patent #’s: 5,451,942; 5,996,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc.©1996-2007 DTS, Inc. All Rights Reserved.

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**Audyssey**

**Audyssey MultEQ® XT**

Audyssey MultEQ XT is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ XT calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup.

**Audyssey Dynamic EQ™**

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ XT to provide well-balanced sound for every listener at any volume level.

**Audyssey Dynamic Volume™**

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey MultEQ® XT is a registered trademark of Audyssey Laboratories. Audyssey Dynamic EQ™ is a trademark of Audyssey Laboratories. Audyssey Dynamic Volume™ is a trademark of Audyssey Laboratories.

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**HDMI (High-Definition Multimedia Interface)**

HDMI is a digital interface standard for next generation TVs based on DVI (Digital Visual Interface) standards and optimized for use in consumer equipment.

Non-compressed digital video and multi-channel audio signals are transmitted with a single connection. HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same was as with DVI.

**Deep Color**

Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

Enables increased contrast ratio.

Can represent many times more shades of gray between black and white.

At 30-bit pixel depth, a four times improvement would be the minimum, and the typical improvement would be eight times or more.

**xvYCC**

Next-generation “xvYCC” color space supports 1.8 times as many colors as existing HDTV signals.

Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

***HDMI“, “HDMI logo” and “High-Definition Multimedia Interface” are trademarks or registered trademarks of HDMI Licensing LLC.***

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**AL24 Processing Plus**

**AL24 Processing for All Channels**

DENON has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192 kHz sampling frequency. AL24 Processing Plus, thoroughly suppresses quantization noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that will bring out all the delicate nuances of the music.

Equipped for not only the left and right channels but also for the surround left and right, center and subwoofer channels.
### Surround Modes and Parameters

<table>
<thead>
<tr>
<th>Surround mode</th>
<th>Channel output</th>
<th>Signals and adjustability in the different modes</th>
<th>Parameter (default values are shown in parentheses)</th>
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<td>Front L/R</td>
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<td>Surround L/R</td>
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<td>Surround Back L/R</td>
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<td></td>
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<td>Subwoofer</td>
<td>AFDM</td>
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<td>SB CH Out</td>
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<td>☐ *(Off)</td>
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<td>DSD DIRECT</td>
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<td>☐ *(0dB)</td>
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<td>MULTI CH DIRECT</td>
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<td>☐</td>
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<td>☐</td>
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<tr>
<td>MULTI CH. IN</td>
<td>☐</td>
<td>☐</td>
<td>☐ *(0dB)</td>
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<td>DOBLY TrueHD</td>
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<td>DTS SURROUND</td>
<td>☐</td>
<td>☐</td>
<td>☐ *(0dB)</td>
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<tr>
<td>DTS 96/24</td>
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<td>SUPER STADIUM</td>
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<tr>
<td>ROCK ARENA</td>
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<tr>
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<tr>
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<td>☐ *(0dB)</td>
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<tr>
<td>MONO MOVIE</td>
<td>☐</td>
<td>☐</td>
<td>☐ *(0dB)</td>
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<tr>
<td>VIDEO GAME</td>
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<td>☐ *(0dB)</td>
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</table>

- ☐: Signal / Adjustable
- ☒: No signal / Not adjustable
- ☐: Turned on or off by speaker configuration setting

**NOTE:**

1. This parameter is available when the menu “Parameter” – “Surround Parameter” – “Mode” is set to “Cinema” (page 38).
2. This parameter is available when the menu “Parameter” – “Surround Parameter” – “Mode” is set to “Cinema” or “PL” (page 38).
3. When playing Dolby TrueHD signal.
<table>
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<th>PRO LOGIC IIx MUSIC mode only</th>
<th>NEO 6 MUSIC mode only</th>
<th>EXT. IN only</th>
<th>Tone (NOTE6)</th>
<th>Night Mode (NOTE6)</th>
<th>MultiEQ XT</th>
<th>Dynamic EQ (NOTE7)</th>
<th>Dynamic Volume (NOTE8)</th>
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<td>X</td>
<td>X</td>
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<td>X</td>
<td>○ (OFF)</td>
<td>○ (NOTE5)</td>
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<td>X</td>
<td>X</td>
<td>X</td>
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<td>X</td>
<td>○ (OFF)</td>
<td>○ (NOTE5)</td>
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○ : Adjustable
X : Not adjustable

NOTE3 : BASS +6 dB, TREBLE +4 dB
NOTE4 : BASS +6 dB, TREBLE 0 dB
NOTE5 : Can be used according to the “Audio Setup” – “EQ Preset” – “Direct Mode” setting ([3] page 30).
NOTE6 : Cannot be set when the “Dynamic EQ” setting is “ON” ([3] page 44).
NOTE7 : Cannot be set when the “MultEQ XT” setting is “OFF” ([3] page 43).
NOTE8 : Cannot be set when the “Dynamic EQ” setting is “OFF” ([3] page 44).
## Differences in Surround Mode Names Depending on the Input Signals

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<th>Input signals</th>
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<td>Dolby (D+) (HD) + EX</td>
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<td>Dolby (D+) (HD) + PLiX CINEMA</td>
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<tr>
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<td>Dolby (D+) (HD) + PLiX MUSIC</td>
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<td>Dolby PRO LOGIC IIx CINEMA</td>
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<td>Dolby PRO LOGIC IIx MUSIC</td>
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<td>Dolby PRO LOGIC IIx GAME</td>
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<td>Dolby PRO LOGIC II MUSIC</td>
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</tr>
<tr>
<td></td>
<td>Dolby PRO LOGIC</td>
</tr>
</tbody>
</table>

**NOTE:**
*1: This mode is not available when the surround back speaker setup is set to "None".
*2: This mode is not available when the surround back speaker setup is set to "1 spkr" or "None".
*3: Cannot be set when "Amp Assign" is set to "ZONE2".

- **X**: Non-selectable mode
- **O**: Mode fixed when "AFDM" is "ON"
- **S**: Selectable mode
- **F**: Mode selectable in initial status
- **D**: Non-selectable mode
- **F**: Mode selectable in initial status
<table>
<thead>
<tr>
<th>Surround mode</th>
<th>Note</th>
<th>PCM</th>
<th>DTS-HD</th>
<th>DTS</th>
<th>DOBLY</th>
<th>DOBLY</th>
<th>DOBLY</th>
<th>DOBLY</th>
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<td>Linear PCM (multi ch)</td>
<td>Linear PCM (2ch)</td>
<td>DTS-HD Master Audio</td>
<td>DTS-HD High Resolution Audio</td>
<td>DTS ES MTRX (With Flag)</td>
<td>DTS ES TrueHD</td>
<td>DTS 96/24</td>
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</tbody>
</table>

**Note:**
- *1:* Mode selectable in initial status
- *2:* Mode fixed when "AFDM" is "ON"
- *3:* Mode fixed when "AFDM" is "ON"
- *4:* Mode fixed when "AFDM" is "ON"

**NOTE:**
- *1:* If the surround back speaker setup is set to "None", then "5CH STEREO" is displayed.
- *2:* If the surround back speaker setup is set to "1spkr" or "None".
- *3:* Cannot be set when "Amp Assign" is set to "ZONE2".
- *4:* If the surround back speaker setup is set to "None", then "5CH STEREO" is displayed.
### Relationship Between Video Signals and Monitor Output

#### Table: Relationship Between Video Signals and Monitor Output

<table>
<thead>
<tr>
<th>Video convert</th>
<th>HDMI</th>
<th>COMPONENT</th>
<th>S-VIDEO</th>
<th>VIDEO</th>
<th>HDMI</th>
<th>COMPONENT</th>
<th>S-VIDEO</th>
<th>VIDEO</th>
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<tbody>
<tr>
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<td>ON</td>
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</tr>
</tbody>
</table>

- **Monitor output**: HDMI, COMPONENT, S-VIDEO, VIDEO

<table>
<thead>
<tr>
<th>Video convert</th>
<th>HDMI</th>
<th>COMPONENT</th>
<th>S-VIDEO</th>
<th>VIDEO</th>
<th>HDMI</th>
<th>COMPONENT</th>
<th>S-VIDEO</th>
<th>VIDEO</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
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<td></td>
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<td>ON</td>
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</tr>
</tbody>
</table>

- **Monitor output**: HDMI, COMPONENT, S-VIDEO, VIDEO

### Notes:
- **Signal input**: Signal input
- **No signal**: Not output
- **On-screen display superimposed on video signal and output**: *1
- **On-screen display superimposed on S-Video signal and output**: *2

- ** COMPONENT or HDMI**: On-screen display only displayed for the MENU button.
- Video signals are not output when the analog to HDMI convert function is set to “OFF”.

### Troubleshooting

#### Multi-zone

1. **Getting Started**: Connections, Setup, Play/Stop, Remote Control, Multi-zone
2. **Remote Control**: Information, Troubleshooting, Specifications

### Technical Specifications

- **Input signals**:
  - When “Tuner Information” and “iPod Information” are “OFF”: Signal output is as in the above table.
  - When input signal is a component 1080i or 720p signal, the signal upconverted to HDMI is output with that resolution or 1080p.
  - When the input signal is a video, S-Video or component 480i, 480p, 576i or 576p signals, the signal upconverted to HDMI is output according to the settings made at “Resolution” under “Input Setup” – “Video” – “Resolution” (see page 35).
- **When SECAM signals of video input are up-converted**, the signals are output in PAL format from the S-Video connector.
- **When the input signal is a component 1080i or 720p signal**, the signal upconverted to HDMI is output with that resolution or 1080p.
- **When the input signal is a video**, S-Video or component 480i, 480p, 576i or 576p signals, the signal upconverted to HDMI is output according to the settings made at “Resolution” under “Input Setup” – “Video” – “Resolution” (see page 35).
- **With assigned input sources** “TUNER” and “iPod”, when you output video with “Video Select”, video output in the above table changes depending on the following settings.
  1. **When Tuner Information** and “iPod Information” are other than “OFF”: Superimposed S-video or Video signal is output.
  2. **When Tuner Information** and “iPod Information” are “OFF”: Signal output is as in the above table.

See page 32 for “Tuner Information” and “iPod Information” setting.
Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?
2. Is the set being operated as described in the owner’s manual?
3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

### [General]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set does not operate properly.</td>
<td>• External noise or interference is causing the set to malfunction.</td>
<td>• Reset the microprocessor.</td>
<td>55</td>
</tr>
<tr>
<td>Power does not turn on, or turns off directly after it was turned on.</td>
<td>• Connection of the power cord is faulty.</td>
<td>• Check that the power plugs are securely inserted into the AVR-2809’s AC inlet and the wall power outlet.</td>
<td>19</td>
</tr>
<tr>
<td>No sound is produced from speakers.</td>
<td>• Connection with the input devices or connection of the speaker cables is faulty.</td>
<td>• Check the connections.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>• Device you want to play and set input source do not match.</td>
<td>• Select an appropriate input source.</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>• Master volume is turned too low.</td>
<td>• Adjust the master volume to an appropriate level.</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>• Mute mode is set.</td>
<td>• Cancel the mute mode.</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>• Headphones are connected.</td>
<td>• Disconnect the headphones.</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>• No digital signals are being input.</td>
<td>• Select an input source for which the digital input setting has been made.</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>• The connectors to which the digital inputs are assigned and the settable input modes do not match.</td>
<td>• Set the input mode.</td>
<td>36</td>
</tr>
<tr>
<td>Display is off.</td>
<td>• The “Dimmer” setting is set to “OFF”.</td>
<td>• Set to something other than “OFF”.</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>• The PURE DIRECT mode is set.</td>
<td>• Set a surround mode other than the PURE DIRECT mode.</td>
<td>40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;DOLBY DIGITAL&quot; indicator does not appear on display.</td>
<td>• Blu-ray Disc player / DVD player’s digital audio output setting is not proper.</td>
<td>• Check the Blu-ray Disc player / DVD player’s audio output setting. For details, read the Blu-ray Disc player / DVD player’s operating instructions.</td>
<td>–</td>
</tr>
<tr>
<td>Power switches off suddenly while you are using the AVR-2809, the power indicator will flash in red at intervals of approximately 2 seconds.</td>
<td>• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.</td>
<td>• Please switch off power at once, and re-apply the power after the body temperature has fallen sufficiently. • Please re-install AVR-2809 in a place having good ventilation.</td>
<td>10</td>
</tr>
<tr>
<td>Power switches off suddenly while you are using the AVR-2809, the power indicator will flash red at intervals of approximately 0.5 seconds.</td>
<td>• Use speakers having impedance less than that specified.</td>
<td>• Please use speakers which have the specified impedance. • Unplug the power cord, then after twisting the core wires together tightly again, or effecting termination treatments etc, please reconnect once again.</td>
<td>10</td>
</tr>
<tr>
<td>Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.</td>
<td>• The AVR-2809 amplifier circuit has failed.</td>
<td>• Switch off the power and please contact the DENON service adviser.</td>
<td>–</td>
</tr>
</tbody>
</table>
### [Remote Control Unit]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound is produced from center speaker.</td>
<td>• You are playing a monaural source (TV, AM radio broadcast, etc.) in the “STANDARD” (Dolby/DTS Surround) mode.</td>
<td>• The mode is set to something other than “STANDARD” (Dolby/DTS Surround).</td>
<td>39</td>
</tr>
<tr>
<td>No sound is produced from surround speakers.</td>
<td>• The surround mode is set to “STEREO”, “DIRECT” or “PURE DIRECT”.</td>
<td>• Set to a surround playback mode.</td>
<td>39, 40</td>
</tr>
<tr>
<td>No sound is produced from surround back speaker.</td>
<td>• The surround back speaker’s power amplifier is assigned to a different channel.</td>
<td>• Check the setting and change it as necessary.</td>
<td>31</td>
</tr>
<tr>
<td>Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.</td>
<td>• HDMI is not connected.</td>
<td>• Connect the HDMI.</td>
<td>11, 12</td>
</tr>
</tbody>
</table>

### [Audio]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound is produced from subwoofer.</td>
<td>• Subwoofer’s power not turned on.</td>
<td>• Turn on the subwoofer’s power.</td>
<td>26</td>
</tr>
<tr>
<td>No test tones are produced when main remote control unit’s TEST button is pressed.</td>
<td>• Surround mode not set to “STANDARD” (Dolby/DTS Surround).</td>
<td>• Set to the “STANDARD” (Dolby/DTS Surround) mode.</td>
<td>39</td>
</tr>
<tr>
<td>HDMI audio signals are not output from speakers.</td>
<td>• Blu-ray Disc player / DVD player’s audio output setting is not set to bitstream.</td>
<td>• Set the Blu-ray Disc player / DVD player. For details, refer to the Blu-ray Disc player / DVD player’s operating instructions.</td>
<td>–</td>
</tr>
<tr>
<td>HDMI audio signals are not output from speakers.</td>
<td>• Blu-ray Disc player / DVD player is not compatible with DTS sound playback.</td>
<td>• Use a DTS-compatible player.</td>
<td>–</td>
</tr>
<tr>
<td>HDMI audio signals are not output from speakers.</td>
<td>• The AVR-2809’s “Decode Mode” setting is set to “ PCM”.</td>
<td>• Set to the “Auto” or “DTS” mode.</td>
<td>36</td>
</tr>
<tr>
<td>HDMI audio signals are not output from speakers.</td>
<td>• Blu-ray Disc player / DVD player is not compatible with DTS sound playback.</td>
<td>• Use a DTS-compatible player.</td>
<td>–</td>
</tr>
</tbody>
</table>

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**Symptom** | **Cause** | **Countermeasure** | **Page**
--- | --- | --- | ---
No sound is produced from center speaker. | • You are playing a monaural source (TV, AM radio broadcast, etc.) in the “STANDARD” (Dolby/DTS Surround) mode. | • The mode is set to something other than “STANDARD” (Dolby/DTS Surround). | 39 |
No sound is produced from surround speakers. | • The surround mode is set to “STEREO”, “DIRECT” or “PURE DIRECT”. | • Set to a surround playback mode. | 39, 40 |
No sound is produced from surround back speaker. | • The surround back speaker’s power amplifier is assigned to a different channel. | • Check the setting and change it as necessary. | 31 |
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output. | • HDMI is not connected. | • Connect the HDMI. | 11, 12 |
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output. | • Blu-ray Disc player’s audio output setting is not set to bitstream. | • Set the Blu-ray Disc player. For details, refer to the Blu-ray Disc player’s operating instructions. | – |
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output. | • Blu-ray Disc player is not compatible with DTS sound playback. | • Use a DTS-compatible player. | – |
### [Video]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture appears.</td>
<td>• The connections between the AVR-2809 and monitor are faulty.</td>
<td>• Check the connections.</td>
<td>11 − 16, 18</td>
</tr>
<tr>
<td></td>
<td>• The monitor’s input setting is wrong.</td>
<td>• Set properly.</td>
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<tr>
<td></td>
<td>• PURE DIRECT mode is set.</td>
<td>• Cancel the PURE DIRECT mode.</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>• The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.</td>
<td>• Set the player to interlace [480/576] signals.</td>
<td>–</td>
</tr>
<tr>
<td>Picture cannot be recorded.</td>
<td>• Input source does not match recorder’s video connection connector (video or S-Video).</td>
<td>• The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.</td>
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<td>DVDs cannot be copied on a VCR.</td>
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<tr>
<td>On-screen display is not shown.</td>
<td>• The operation content display is “OFF”.</td>
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<tr>
<td></td>
<td>• The main volume display is “OFF”.</td>
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<tr>
<td></td>
<td>• The display during tuner operation is “OFF”.</td>
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<tr>
<td></td>
<td>• The display during iPod operation is “OFF”.</td>
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<tr>
<td></td>
<td>• When viewing HDMI or component video signals via the AVR-2809, the on-screen display appears when the MENU button.</td>
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<td>9</td>
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<tr>
<td></td>
<td>• When only HDMI or component video signals are input to the AVR-2809, the characters of the on-screen display are not displayed over the picture.</td>
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<tr>
<td></td>
<td>• Set when “Manual Setup” – “On-Screen Display” – “Tuner Information” is not “OFF”.</td>
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<td>32</td>
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<tr>
<td></td>
<td>• Set when “Manual Setup” – “On-Screen Display” – “iPod Information” is not “OFF”.</td>
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<td>32</td>
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### [HDMI]

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI audio signals are not output from speakers.</td>
<td>• The “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” setting is set to “TV”.</td>
<td>• Set to “Amp”.</td>
<td>28</td>
</tr>
<tr>
<td>No picture appears with HDMI connections.</td>
<td>• The connections to the HDMI connectors are faulty.</td>
<td>• Check the connections.</td>
<td>11</td>
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<tr>
<td></td>
<td>• HDMI input setting is improper.</td>
<td>• Check the HDMI input setting.</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>• The monitor is not compatible with copyright protection (HDCP).</td>
<td>• Connect a monitor that is compatible with copyright protection (HDCP).</td>
<td>11</td>
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<tr>
<td></td>
<td>• The HDMI format of the player and monitor do not match.</td>
<td>• Match the HDMI format of the player and monitor.</td>
<td>11</td>
</tr>
<tr>
<td>No sound is output from the monitor connected with HDMI connections.</td>
<td>• The “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” setting is set to “Amp”.</td>
<td>• Set to “TV”.</td>
<td>28</td>
</tr>
<tr>
<td>When performing the following operations on a connected device, AVR-2809 has the same operations.</td>
<td>• HDMI’s CEC function is operating.</td>
<td>• Set “Manual Setup” – “HDMI Setup” – “HDMI Control” to “OFF”.</td>
<td>28</td>
</tr>
<tr>
<td>• Power ON/OFF</td>
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<td>When you only want to operate the power on/off each device, set “Power Off Control” to “OFF”.</td>
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<tr>
<td>• Switching audio output devices</td>
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<tr>
<td>• Adjust volume</td>
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<td>• Switch input source</td>
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### [iPod]

<table>
<thead>
<tr>
<th>Symptom</th>
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</thead>
<tbody>
<tr>
<td>iPod cannot be played.</td>
<td>• The input source assigned to “iPod Dock” is not selected.</td>
<td>• Switch to the input source assigned at “iPod Dock”.</td>
<td>37</td>
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<tr>
<td></td>
<td>• Cable is not properly connected.</td>
<td>• Reconnect.</td>
<td>13</td>
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<tr>
<td></td>
<td>• Control dock for iPod’s AC adapter is not connected to power outlet.</td>
<td>• Plug the control dock for iPod’s AC adapter into a power outlet.</td>
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</tbody>
</table>
Specifications

### Audio section
- **Power amplifier**
  - Rated output:
    - Front (A, B): 115 W + 115 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
    - Front: 150 W + 150 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
  - Center: 115 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
  - Center: 150 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
  - Surround: 115 W + 115 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
  - Surround: 150 W + 150 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
  - Surround Back: 115 W + 115 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
  - Surround Back: 150 W + 150 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
- **Dynamic power**:
  - 130 W x 2ch @ 8 Ω/ohms
  - 180 W x 2ch (4 Ω/ohms)
- **Output connectors**:
  - Front: A or B 6 ~ 16 Ω/ohms
  - A + B 8 ~ 16 Ω/ohms
  - Center, Surround, Surround Back: 6 ~ 16 Ω/ohms
- **Analog**
  - Input sensitivity / input impedance:
    - Frequency response: 200 mV / 47 kΩ/kohms
    - S/N: 10 Hz ~ 100 kHz — +1, –3 dB (DIRECT mode)
    - Distortion: 0.006 % (20 Hz ~ 20 kHz) (DIRECT mode)
  - Rated output: 1.2 V
- **Digital**
  - D/A output:
    - Rated output — 2 V (at 0 dB playback)
    - Total harmonic distortion — 0.008 % (1 kHz, at 0 dB)
  - S/N ratio — 102 dB
  - Dynamic range — 96 dB
- **Digital input**:
  - Phonon equalizer (PHONO input — REC OUT)
    - Input sensitivity: 2.5 mV
    - RIAA deviation: ±1 dB (20 Hz to 20 kHz)
    - S/N: 74 dB (A weighting, with 5 mV input)
    - Rated output: 150 mV
    - Distortion factor: 0.03 % (1 kHz, 3 V)

### Tuner section
- **[FM]**
  - Receiving Range: 87.5 MHz ~ 108.0 MHz
  - Usable Sensitivity: 1.0 μV (11.2 dBf)
  - 50 dB Quieting Sensitivity: MONO 1.6 μV (15.3 dBf)
  - S/N (IHF-A): MONO 77 dB
  - Total harmonic Distortion (at 1 kHz): MONO 0.15 %
- **[AM]**
  - Receiving Range: 522 kHz ~ 1611 kHz
  - Usable Sensitivity: 18 μV
  - S/N (IHF-A): STEREO 72 dB
- **General**
  - Power supply: AC 230 V, 50 Hz
  - Power consumption: 500 W
  - Maximum external dimensions: 434 (W) x 171 (H) x 414 (D) mm
  - Weight: 12.8 kg

### Video section
- **Standard video connectors**
  - Input / output level and impedance: 1 Vp-p, 75 Ω/ohms
  - Frequency response: 5 Hz ~ 10 MHz — +0, –3 dB (when video convert set to “OFF”)
- **S-Video connectors**
  - Input / output level and impedance:
    - Y (brightness) signal: 1 Vp-p, 75 Ω/ohms
    - C (color) signal: 0.3 (PAL) / 0.286 (NTSC) Vp-p, 75 Ω/ohms
  - Frequency response: 5 Hz ~ 10 MHz — +0, –3 dB (when video convert set to “OFF”)
- **Color component video connector**
  - Input / output level and impedance:
    - Y (brightness) signal: 1 Vp-p, 75 Ω/ohms
    - Pk / Ck signal: 0.7 Vp-p, 75 Ω/ohms
    - Pk / Ck signal: 0.7 Vp-p, 75 Ω/ohms
  - Frequency response: 5 Hz ~ 100 MHz — +0, –3 dB (when video convert set to “OFF”)

### Main remote control unit (RC-1102)
- **Batteries**: LR6/AA type (two batteries)
- **Maximum external dimensions**: 63 (W) x 238 (H) x 31 (D) mm
- **Weight**: 190 g (including batteries)

### Sub remote control unit (RC-1106)
- **Batteries**: R03/AAA type (two batteries)
- **Maximum external dimensions**: 54 (W) x 115 (H) x 23 (D) mm
- **Weight**: 80 g (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.
List of preset codes / Liste von voreingestellten Codes / Liste de codes préréglés / Lista dei codici pre-regolati / Lista de códigos pre-ajustados / Lijst van vooringestelde codes / Förteckning över förinställda koder

### Denon Amp

<table>
<thead>
<tr>
<th>Device type</th>
<th>Leading Digit</th>
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<tr>
<td>Denon</td>
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<td>81000</td>
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<tr>
<td>81001</td>
<td>00009, 00010, 00011</td>
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<td>00012, 00013, 00014</td>
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### Denon Analog Tuner

<table>
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<th>Device type</th>
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<tr>
<td>Denon</td>
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<td>62283</td>
<td>00007, 00008, 00010, 00012, 00267, 00268, 00270</td>
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### Denon iPod

<table>
<thead>
<tr>
<th>Device type</th>
<th>Leading Digit</th>
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<tr>
<td>Denon</td>
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<tr>
<td>72815</td>
<td>00007, 00008, 00010, 00012, 00267, 00268, 00270</td>
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</tbody>
</table>

### Cable Set Top Box

| A | A-Mark | 00006, 00014 |
| B | ATSC  | 00237 |
| C | Bellflower | 00237 |
| D | British Telecom | 00276 |
| E | Century | 00007 |
| F | Daicon | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| G | Digihome | 00276 |
| H | Dish Network | 00276 |
| I | Directv | 00276 |
| J | DIRECTV | 00276 |
| K | ENGENSI | 00276 |
| L | Envision | 00276 |
| M | Face | 00276 |
| N | Fujitsu | 00276 |
| O | Galaxia | 00276 |
| P | GE | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| Q | HAI | 00276 |
| R | Hitachi | 00276 |
| S | Hubbell | 00276 |
| T | INTEL | 00276 |
| U | JVC | 00276 |
| V | Kaiser | 00276 |
| W | Konica | 00276 |
| X | Koram | 00276 |
| Y | Kyocera | 00276 |
| Z | LG | 00276 |

### Cable/PVR Combination

| A | American Cable | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| B | Bell South | 00276 |
| C | Cable & Wireless | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| D | Cabletron | 00276 |
| E | Century | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| F | Daican | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| G | Daeyung | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| H | Digihome | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| I | Directv | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| J | Dish Network | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| K | ENGENSI | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| L | Envision | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| M | Face | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| N | Fujitsu | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| O | Galaxia | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| P | GE | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| Q | HAI | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| R | Hitachi | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| S | Hubbell | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| T | Cable/PVR Combination | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| U | JVC | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| V | Kaiser | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| W | Konica | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| X | Koram | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| Y | Kyocera | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |
| Z | LG | 00006, 00008, 00010, 00012, 00014, 00016, 00018 |

### CD Player

| A | Acoustic Research | 0420 |
| B | Acoem | 0417 |
| C | Alfa | 0417 |
| D | Amd | 0417 |
| E | AMD | 0417 |
| F | Audio Research | 0417 |
| G | Audio-Technica | 0417 |
| H | Audiovox | 0417 |
| I | Avant | 0417 |
| J | Balanced Audio Technology | 0417 |
| K | Brain Research | 0417 |
| L | Bush | 0417 |
| M | Califone | 0417 |
| N | California Audio Labs | 0403 |
| O | Cambrige Audio | 0417 |
| P | Cambridge Soundworks | 0417 |
| Q | Carver | 0417 |
| R | CDC | 0420 |
| S | CE | 0420 |
| T | CE | 0420 |
| U | Clapton | 0420 |
| V | Curtis Mathes | 0432 |
| W | Cyrus | 0417 |
| X | Denon | 0403 |
| Y | Denon | 0403 |
| Z | Denon | 0403 |

### CD Player

<p>| A | Acoustic Research | 0420 |
| B | Acoem | 0417 |
| C | Alfa | 0417 |
| D | Amd | 0417 |
| E | AMD | 0417 |
| F | Audio Research | 0417 |
| G | Audio-Technica | 0417 |
| H | Audiovox | 0417 |
| I | Avant | 0417 |
| J | Balanced Audio Technology | 0417 |
| K | Brain Research | 0417 |
| L | Bush | 0417 |
| M | Califone | 0417 |
| N | California Audio Labs | 0403 |
| O | Cambrige Audio | 0417 |
| P | Cambridge Soundworks | 0417 |
| Q | Carver | 0417 |
| R | CDC | 0420 |
| S | CE | 0420 |
| T | CE | 0420 |
| U | Clapton | 0420 |
| V | Curtis Mathes | 0432 |
| W | Cyrus | 0417 |
| X | Denon | 0403 |
| Y | Denon | 0403 |
| Z | Denon | 0403 |</p>
<table>
<thead>
<tr>
<th><strong>TV/DVD Combination</strong></th>
<th>A</th>
<th>Advent 11933</th>
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<tbody>
<tr>
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<td>B</td>
<td>Black Diamond 11937</td>
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| [ ]* | Preset codes set upon shipment from the factory.  |
|      | Sie Voreinstellungs codes wurden vor der Auslieferung werkseitig eingestellt.  |
|      | Les codes préréglés diffèrent en fonction des livraison de l’usine.  |
|      | I codici di preselettaggio sono impostati in fabbrica prima della consegna.  |
|      | Los códigos vienen preprogramados de fábrica.  |
|      | Vooringestelde codes bij levering van de fabriek.  |
|      | Förinställda koder har ställts i vid transporten från fabriken.  |

※1 : These preset codes can be recorded in the SAT/CBL mode.  |
| Diese voreingestellten Codes können im SAT/CBL-Modus aufgenommen werden.  |
| Ces codes de présélection peuvent être enregistrés en mode SAT/CBL.  |
| I codici preimpostati possono essere registrati nel modo SAT/CBL.  |
| Es posible guardar estos códigos preajustados en el modo SAT/CBL.  |
| Deze voorkeuzecodes kunnen worden opgenomen in de SAT/CBL-modus.  |
| Dessa förinställningskoder kan lagras i SAT/CBL-läget.  |

※2 : These preset codes can be recorded in the TV mode.  |
| Diese voreingestellten Codes können im TV-Modus aufgenommen werden.  |
| Ces codes de présélection peuvent être enregistrés en mode TV.  |
| I codici preimpostati possono essere registrati nel modo TV.  |
| Es posible guardar estos códigos preajustados en el modo TV.  |
| Deze voorkeuzecodes kunnen worden opgenomen in de TV-modus.  |
| Dessa förinställningskoder kan lagras i TV-läget.  |

※3 : These preset codes can be recorded in the VCR mode.  |
| Diese voreingestellten Codes können im VCR-Modus aufgenommen werden.  |
| Ces codes de présélection peuvent être enregistrés en mode VCR.  |
| I codici preimpostati possono essere registrati nel modo VCR.  |
| Es posible guardar estos códigos preajustados en el modo VCR.  |
| Deze voorkeuzecodes kunnen worden opgenomen in de VCR-modus.  |
| Dessa förinställningskoder kan lagras i VCR-läget.  |

※4 : These preset codes can be recorded in the DVD mode.  |
| Diese voreingestellten Codes können im DVD-Modus aufgenommen werden.  |
| Ces codes de présélection peuvent être enregistrés en mode DVD.  |
| I codici preimpostati possono essere registrati nel modo DVD.  |
| Es posible guardar estos códigos preajustados en el modo DVD.  |
| Deze voorkeuzecodes kunnen worden opgenomen in de DVD-modus.  |
| Dessa förinställningskoder kan lagras i DVD-läget.  |