DENON

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 REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- **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 and EN61000-3-3.
  Following the provisions of 2006/95/EC and 2004/108/EC Directive.
- **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.
  D'après les dispositions de la Directive 2006/95/EC et 2004/108/EC.

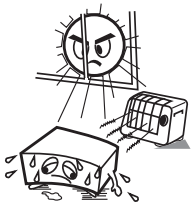
DENON EUROPE
Division of D&M Germany GmbH
An der Landwehr 19, Nettetal,
D-41334 Germany

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.

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.

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.

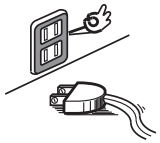
❑ NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION



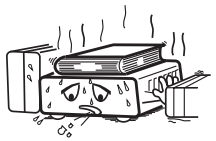
- Avoid high temperatures.
  Allow for sufficient heat dispersion when installed in a rack.
- Vermeiden Sie hohe Temperaturen.
  Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées.
  Tenir compte d'une dispersion 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.

- Keep the unit free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.

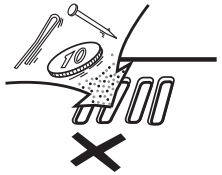


- Unplug the power cord when not using the unit for long periods of time.
- Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.



* (For apparatuses with ventilation holes)

- Do not obstruct the ventilation holes.
- Decken Sie den Lüftungsbereich nicht ab.
- 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, Benzin 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.

CAUTION:
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the unit.
- Observe and follow local regulations regarding battery disposal.
- Do not expose the unit to dripping or splashing fluids.
- Do not place objects filled with liquids, such as vases, on the unit.

ACHTUNG:
- Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden.
- Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden.
- Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen.
- Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden.
- Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.

ATTENTION:
- La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc.
- Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil.
- Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées.
- L'appareil ne doit pas être exposé à l'eau ou à l'humidité.
- Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil.

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.
When discarding the unit, comply with local rules or regulations.
Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.
This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.

HINWEIS ZUM RECYCLING:

Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften.
Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.
Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften.
Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.
Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur.
Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles.
Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

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..... End of this manual

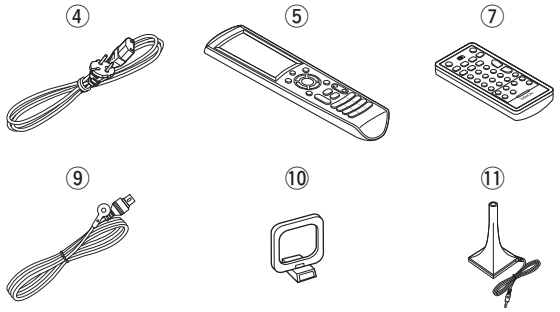
Getting Started

Thank you for purchasing this DENON product. To ensure proper operation, please read these owner's manuals carefully before using the product.
After reading them, be sure to keep them for future reference.

Accessories

Check that the following parts are supplied with the product.

① Owner's manual 1
② Getting started 1
③ Service station list 1
④ Power cord (Cord length: Approx. 1.6 m) 1
⑤ Main remote control unit (RC-1102) 1
⑥ LR6/AA batteries (for RC-1102) 2
⑦ Sub remote control unit (RC-1106) 1
⑧ R03/AAA batteries (for RC-1106) 2
⑨ FM indoor antenna 1
⑩ AM loop antenna 1
⑪ Setup microphone
(DM-A409, Cord length: Approx. 7.6 m) 1

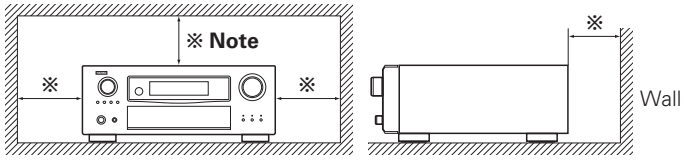


Cautions on Handling

- **Before turning the power switch on**
  Check once again that all connections are correct and that there are no problems with the connection cables.
- Power is supplied to some of the circuitry even when the unit is set to the standby mode. When 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.

Cautions on Installation

Note:
For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.

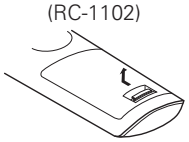


About the Remote Control Unit

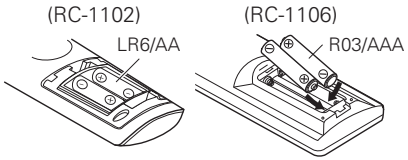
In addition to the AVR-2809, the included main remote control unit (RC-1102) can also be used to operate the equipment listed below.
① DENON system components
② Non-DENON system components
- By setting the preset memory (☞page 56 ~ 58)
- By using the learning function (☞page 59)

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.



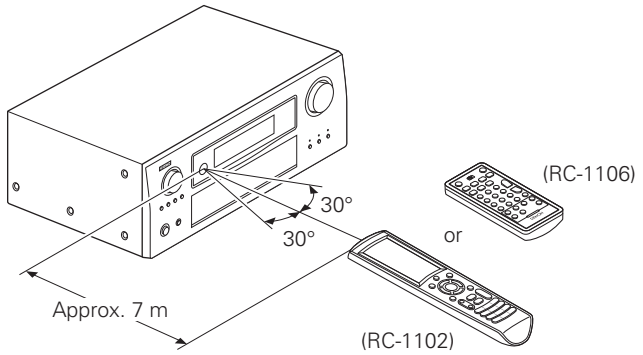
③ Put the rear cover back on.

NOTE

- Replace 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 "⊕" and "⊖" marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
  - Do not use a new battery together 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.

Operating Range of the Remote Control Unit

Point the remote control unit at the remote sensor when operating it.



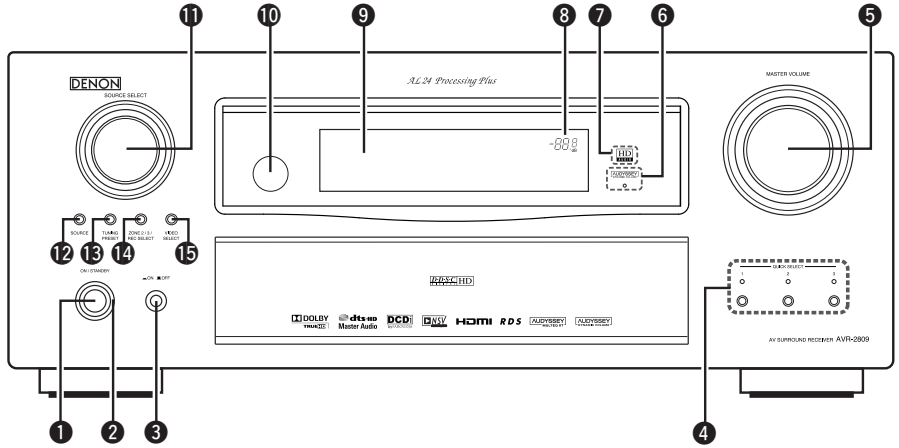
NOTE

The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

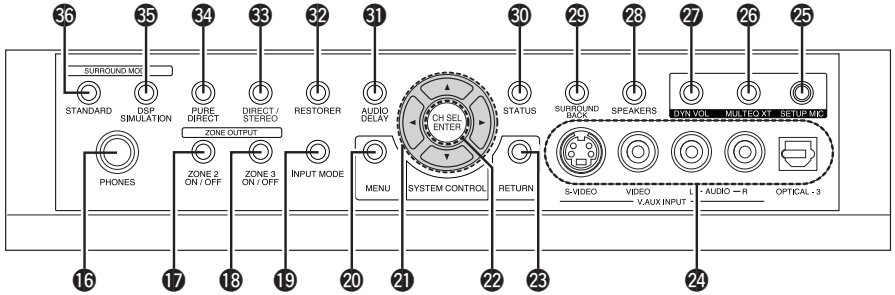
Part Names and Functions

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

Front Panel



【With the door open】



❶ **Power operation button (ON/STANDBY)** ..... (48)
❷ **Power indicator** ..... (48)
❸ **Power switch (▂ON ■OFF)** ..... (48)
❹ **QUICK SELECT buttons / indicators** ..... (48)
❺ **MASTER VOLUME control knob** ..... (48)
❻ **AUDYSSEY DYNAMIC VOLUME indicator** ..... (44)
❼ **HD AUDIO indicator** ..... (39)
❽ **Master volume indicator**
❾ **Display**
❿ **Remote control sensor** ..... (3)
⓫ **SOURCE SELECT knob** ..... (48)
⓬ **SOURCE button** ..... (48)
⓭ **TUNING PRESET button** ..... (49)
⓮ **ZONE2/3 / REC SELECT button** ..... (64)
⓯ **VIDEO SELECT button** ..... (35)
⓰ **Headphones jack (PHONES)** ..... (48)
⓱ **ZONE2 ON/OFF button** ..... (64)
⓲ **ZONE3 ON/OFF button** ..... (64)
⓳ **INPUT MODE button** ..... (16, 36)
⓴ **MENU button** ..... (19)
㉑ **Cursor buttons (△▽◁ ▷)** ..... (19)
㉒ **CH SEL / ENTER button** ..... (19, 55)

㉓ **RETURN button** ····· (19)
㉔ **V.AUX INPUT connectors** ····· (16)
㉕ **SETUP MIC jack** ····· (22)
㉖ **MULTEQ XT button** ····· (43)
㉗ **DYNAMIC VOLUME button** ····· (44)

※ **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.

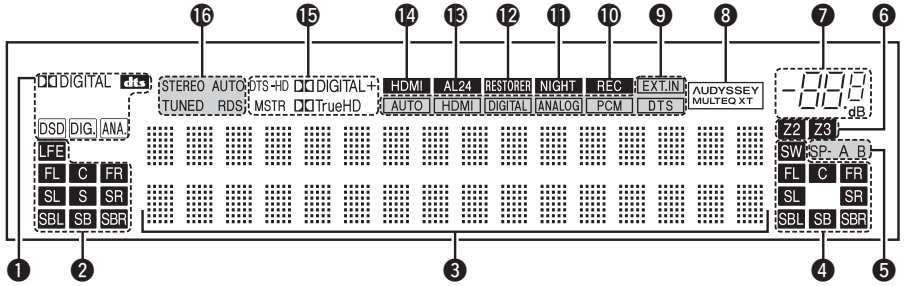
Audyssey Dynamic EQ™ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

※ **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.

㉘ **SPEAKERS button** ····· (48)
㉙ **SURROUND BACK button** ····· (43)
㉚ **STATUS button** ····· (46)
㉛ **AUDIO DELAY button** ····· (45)
㉜ **RESTORER button** ····· (45)
㉝ **DIRECT/STEREO button** ····· (39)
㉞ **PURE DIRECT button** ····· (40)
㉟ **DSP SIMULATION button** ····· (39)
㊱ **STANDARD button** ····· (40)

Display



❶ **Input signal indicators**

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

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

❹ **Output signal channel indicators**

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

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

❼ **Master volume indicator**

❽ **AUDYSSEY MULTEQ XT indicator**
This lights when MultEQ XT is selected.

❾ **Input mode indicators**

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

⓫ **NIGHT indicator**
This lights when the night mode is selected.

⓬ **RESTORER indicator**
This lights when the RESTORER mode is selected.

⓭ **AL24 indicator**
This lights when AL24 Processing Plus is activated (☞page 67).

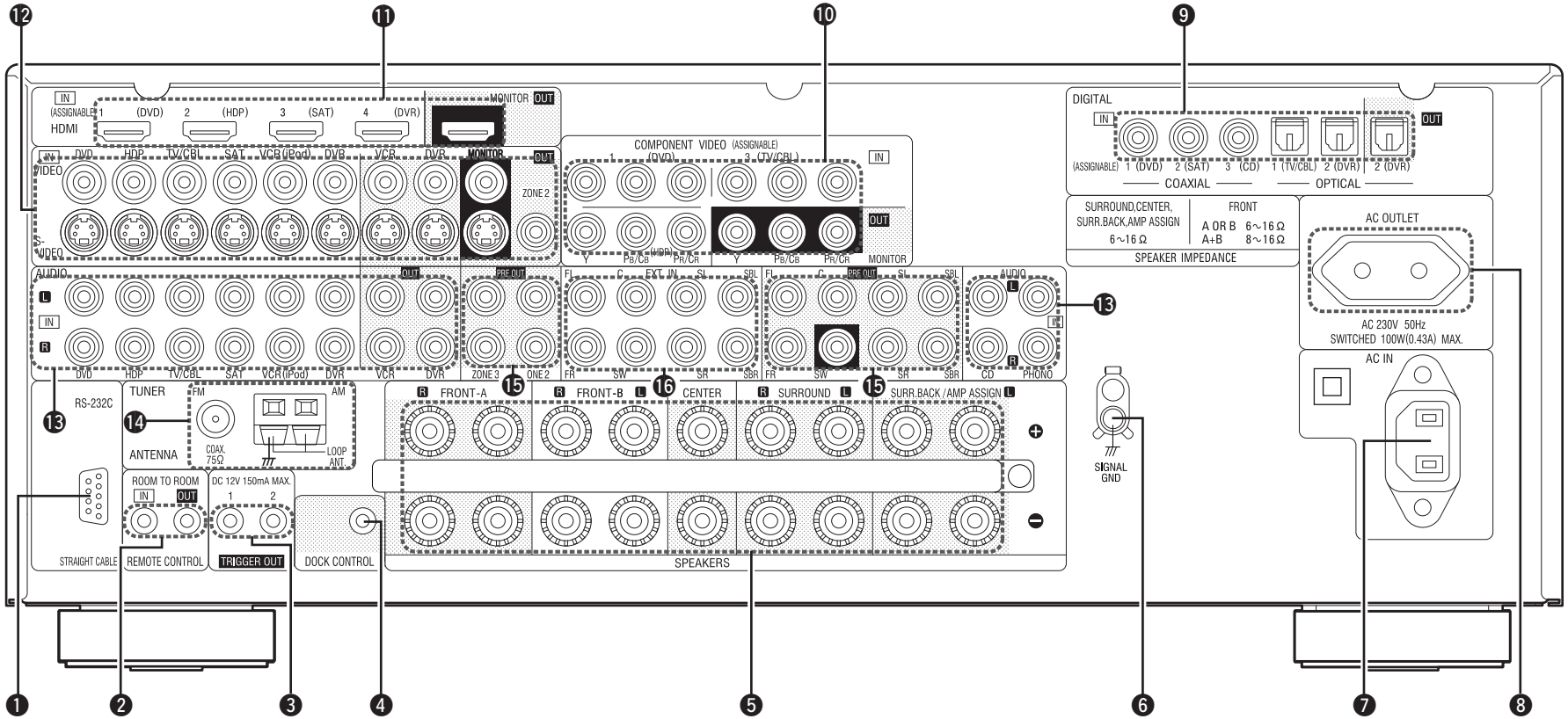
⓮ **HDMI indicator**
This lights when playing using HDMI connections.

⓯ **Decoder indicators**
These light when the respective decoders are operating.

⓰ **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.

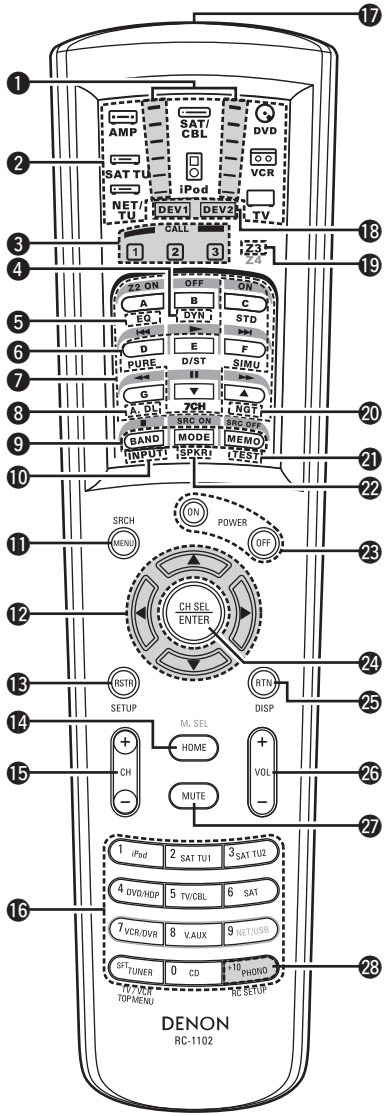
Rear Panel



❶ **RS-232C connector** ····· (18)
❷ **REMOTE CONTROL jacks** ····· (18)
❸ **TRIGGER OUT jacks** ····· (18)
❹ **DOCK CONTROL jack** ····· (13)
❺ **Speaker terminals (SPEAKERS)** ····· (10)
❻ **SIGNAL GND terminal** ····· (13)
❼ **AC inlet (AC IN)** ····· (19)
❽ **AC OUTLET** ····· (19)
❾ **Digital audio connectors (OPTICAL / COAXIAL)** ····· (12 ~ 16)
❿ **COMPONENT VIDEO connectors** ····· (12 ,14)
⓫ **HDMI connectors** ····· (11, 12, 14, 15)
⓬ **VIDEO / S-VIDEO connectors** ····· (12 ~16, 18)
⓭ **Analog audio connectors (AUDIO)** ····· (12 ~ 16)
⓮ **FM/AM antenna terminals (TUNER ANTENNA)** ····· (17)
⓯ **PRE OUT connectors** ····· (10, 17, 18)
⓰ **EXT. IN connectors** ····· (16)

Remote Control Unit

❑ Main remote control unit (RC-1102)



❶ **Signal transmission indicator** ..... (56)
❷ **Mode select buttons** ..... (56)
❸ **Quick select / System call buttons** ..... (55, 60)
❹ **DYNAMIC VOLUME button (DYN)** ..... (44)
❺ **MultEQ XT button (EQ)** ..... (43)
❻ **Surround mode buttons** ..... (38 ~ 40)
- **Standard button (STD)** ..... (38)
- **Pure Direct button (PURE)** ..... (40)
- **Direct/Stereo button (D/ST)** ..... (39)
- **DSP simulation button (SIMU)** ..... (39)
- **7CH button** ..... (39)

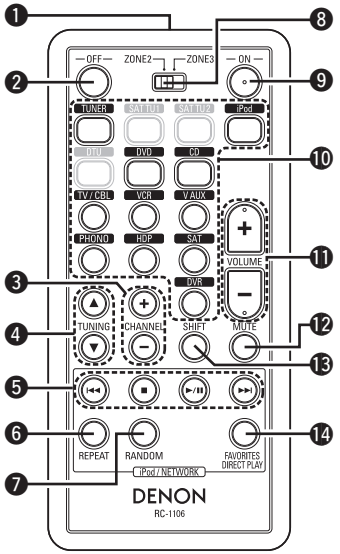
❼ **System buttons** ..... (57, 58)
❽ **Audio delay button (A. DL)** ..... (45)
❾ **Tuner system buttons** ..... (49)
❿ **Input mode button (INPUT)** ..... (36)
⓫ **Menu / Search button (MENU / SRCH)** ..... (19)
⓬ **Cursor buttons (△▽◁ ▷)** ..... (19)
⓭ **RESTORER button (RSTR)** ..... (45)
⓮ **HOME button** ..... (56)
⓯ **Channel buttons (CH)** ..... (49)
⓰ **Input source select / Number buttons** ..... (48, 49)
⓱ **Remote control signal transmitter** ..... (4)
⓲ **Device select indicators (DEV1 / DEV2)** ..... (56)
⓳ **ZONE3 select indicators (Z3)** ..... (56)
⓴ **Night button (NGT)** ..... (45)
㉑ **Test tone button (TEST)** ..... (27)
㉒ **Front speaker select button (SPKR)** ..... (50)
㉓ **POWER buttons** ..... (50)
㉔ **Channel select (CH SEL) / ENTER button** ..... (19, 55)
㉕ **Return button (RTN)** ..... (19)
㉖ **Master volume control buttons (VOL)** ..... (48)
㉗ **Muting button (MUTE)** ..... (48, 64)
㉘ **Main remote control unit setup button (RC SETUP)** ..... (56)

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.

❑ Sub remote control unit (RC-1106)



❶ **Remote control signal transmitter** ..... (4)
❷ **Zone power off button (OFF)** ..... (64)
❸ **CHANNEL buttons** ..... (61)
❹ **TUNING buttons** ..... (61)
❺ **System buttons** ..... (61)
❻ **REPEAT button** ..... (61)
❼ **RANDOM button** ..... (61)
❽ **ZONE2/ZONE3 select switch** ..... (61)
❾ **Zone power on button (ON)** ..... (64)
❿ **Input source select buttons** ..... (64)
⓫ **Volume control buttons (VOLUME)** ..... (64)
⓬ **Muting button (MUTE)** ..... (64)
⓭ **SHIFT button** ..... (61)

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.

Preparations

Cables Used for Connections

Select the cables according to the equipment being connected.

Audio cables

Coaxial digital connections

Coaxial digital (75 Ω/ohms pin-plug) cable

Optical digital connections

Optical cable

Analog connections (stereo)

Stereo pin-plug cable

Analog connections (monaural, for subwoofer)

Pin-plug cable

Speaker connections

Speaker cables

Video cables

Component video connections

Component video cable

S-Video connections

S-Video cable

Video connections

75 Ω/ohms pin-plug video cable

Audio and video cables

HDMI connections

19-pin HDMI cable

Signal direction

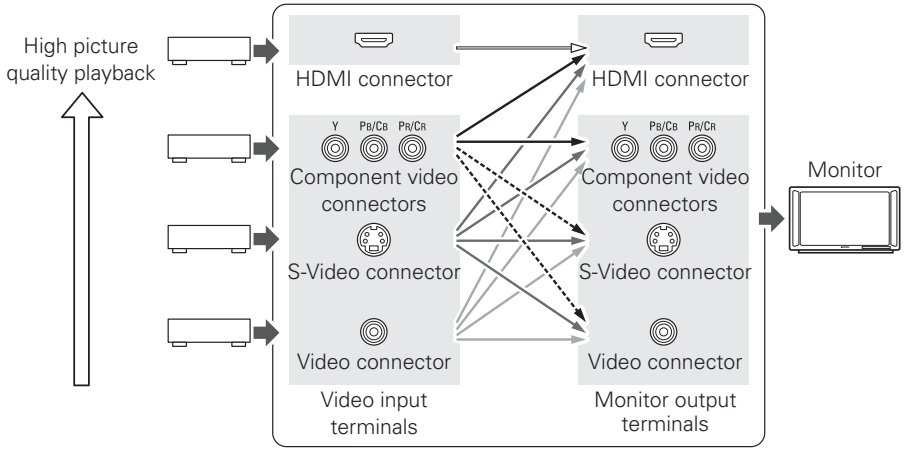
Audio signal:

Video signal:

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】



---- : When 480i/576i signals are input

- 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).

NOTE

- HDMI signals cannot be converted into analog signals.
- 1080p component video input signals cannot be output to anything other than component video connectors.
- 480p/576p, 1080i and 720p component video input signals cannot be converted into S-Video or Video format.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

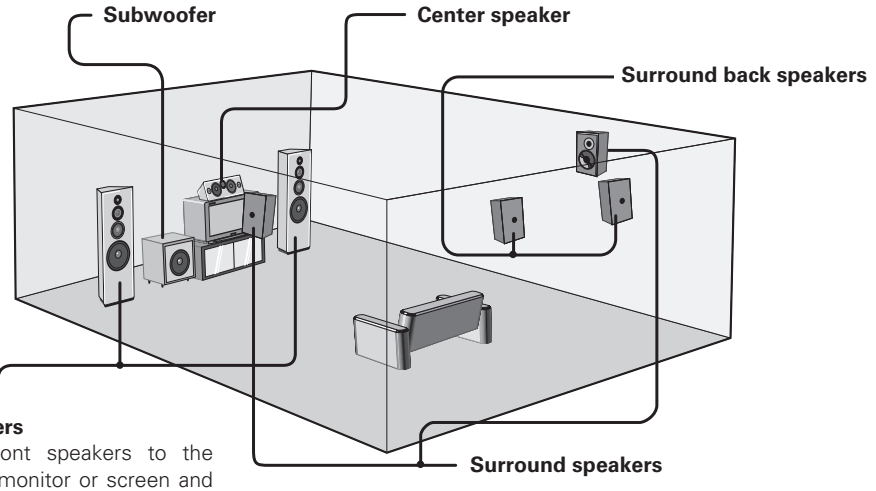
On-Screen Display for Component Video Outputs and HDMI Output

- 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.



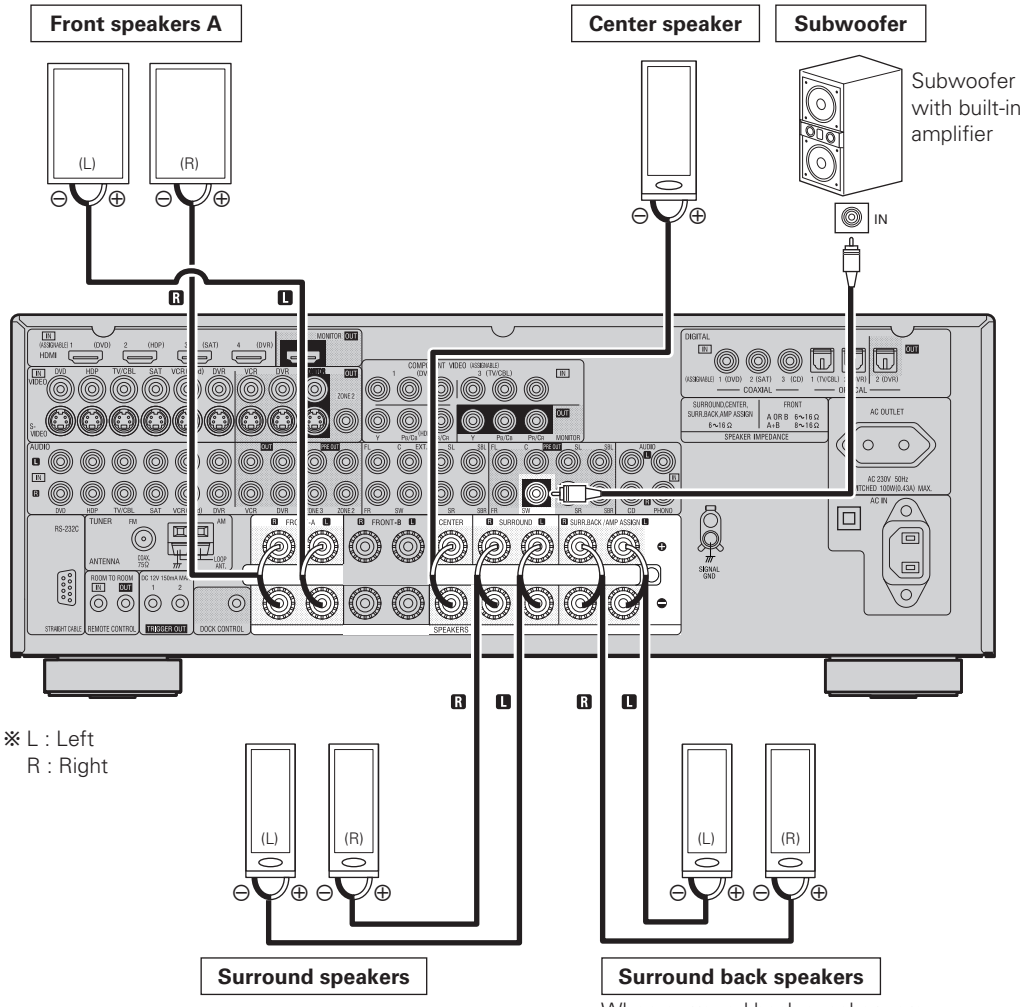
Front speakers
Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.

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

	FRONT		CENTER	SURROUND		SURROUND BACK			SUBWOOFER
	L	R		L	R	L	R	1 speaker	
7.1-channels (FRONT A+B)	○	○	○	○	○	○	○	–	○
7.1-channels	○	○	○	○	○	○	○	–	○
6.1-channels	○	○	○	○	○	–	–	○	○
5.1-channels	○	○	○	○	○	–	–	–	○
3.1-channels	○	○	○	–	–	–	–	–	○
2.1-channels	○	○	–	–	–	–	–	–	○
2-channels	○	○	–	–	–	–	–	–	–

Speaker Connections

Example: 5.1 / 7.1-channels



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 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

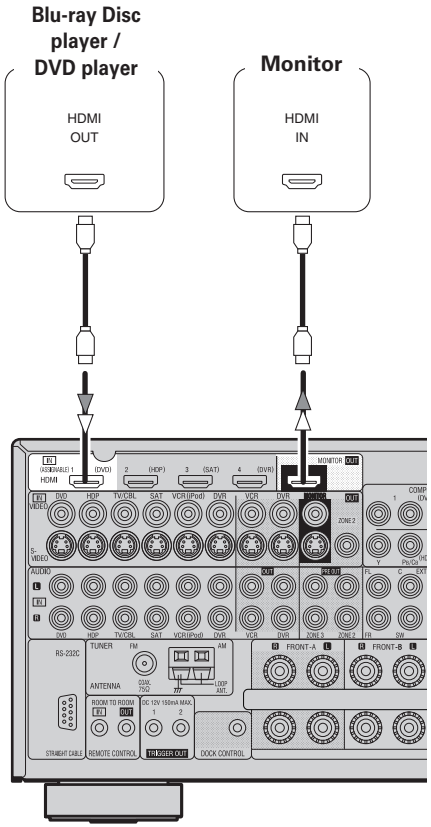
- Use speakers with an impedance of 6 to 16 Ω/ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 8 to 16 Ω/ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires 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 (eg, 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.

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

- By default, the HDMI audio signals are output from the speakers connected to the AVR-2809.
- To output the sound from the TV, make the settings at menu "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" – "TV" (☞page 28).

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.

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

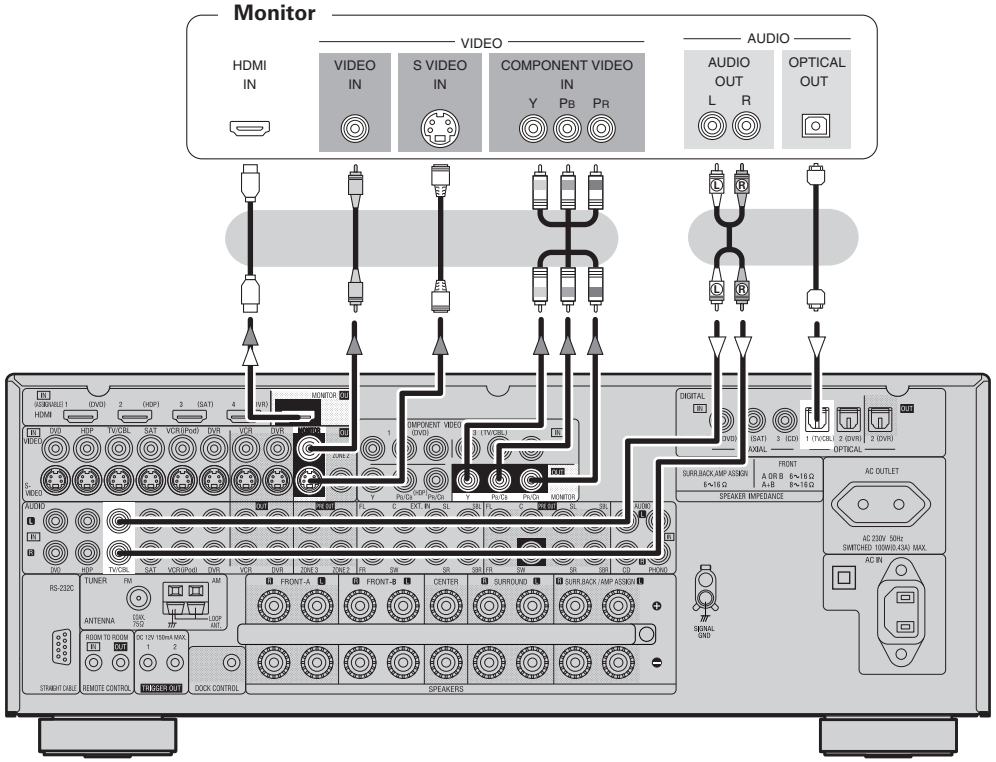
- HDMI video signals are theoretically compatible with the DVI format.
  When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.
-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

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.



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.

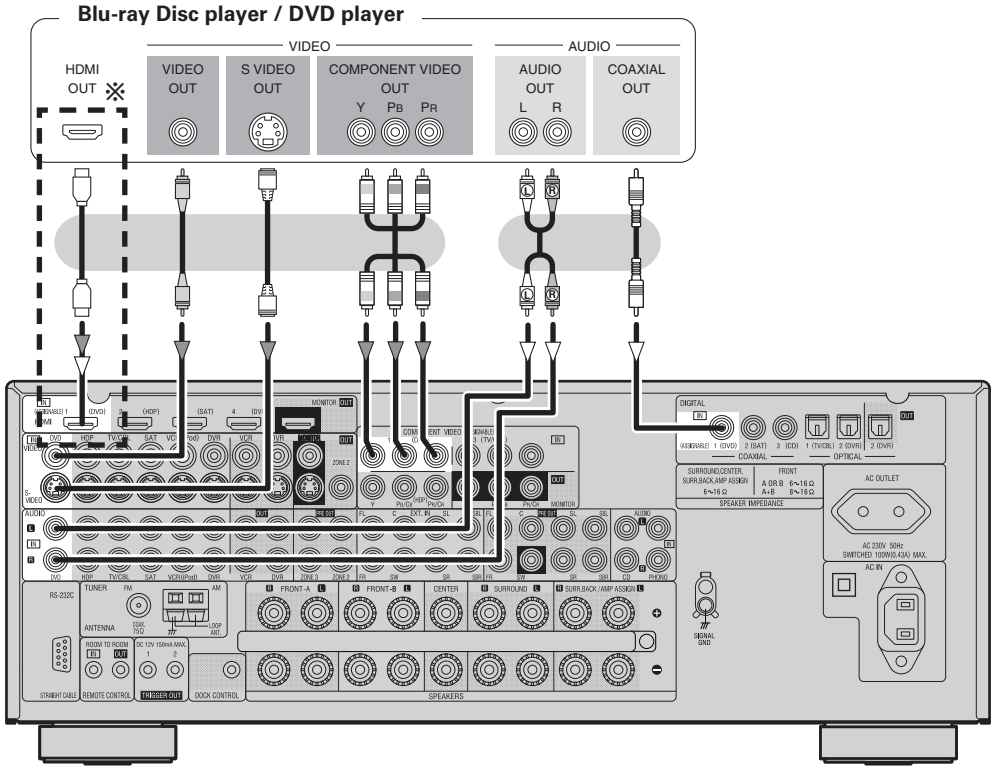
Connecting the Playback Components

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

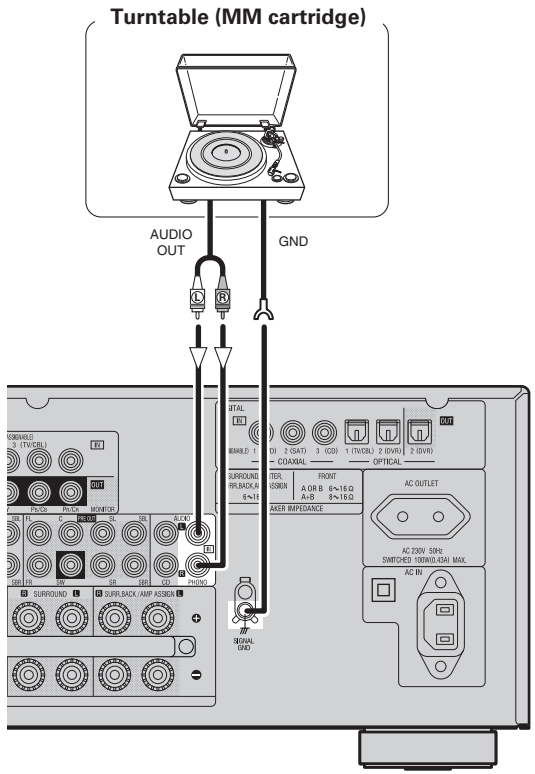
Select the terminal to use and connect the device.

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



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

Record Player

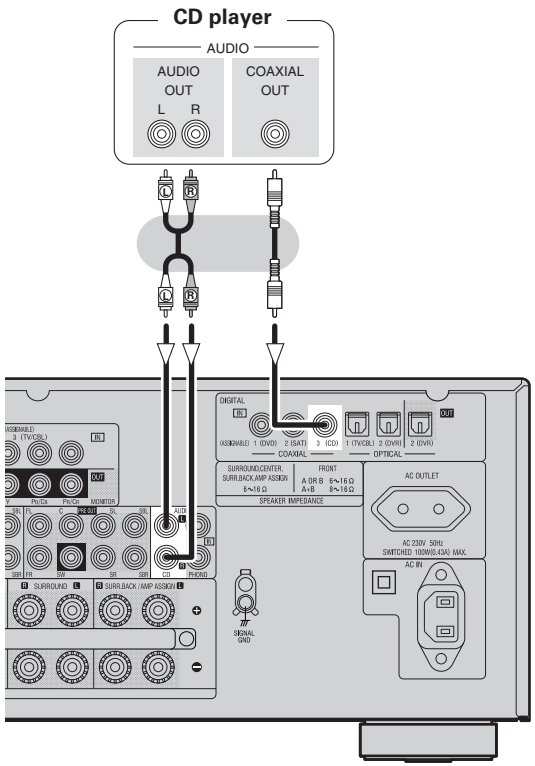


- When connecting a record player with an MC cartridge, use a commercially available MC head amplifier or a step-up transformer.
- Induction humming (a booming sound) may be produced from the speakers if the volume is raised with no record player connected.
- With some record players, noise may be generated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

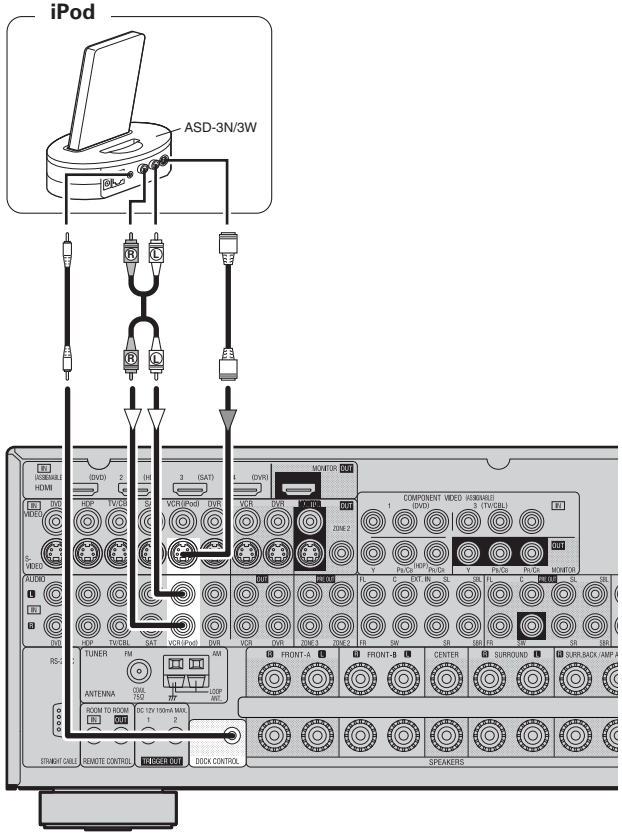
CD Player



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

iPod®

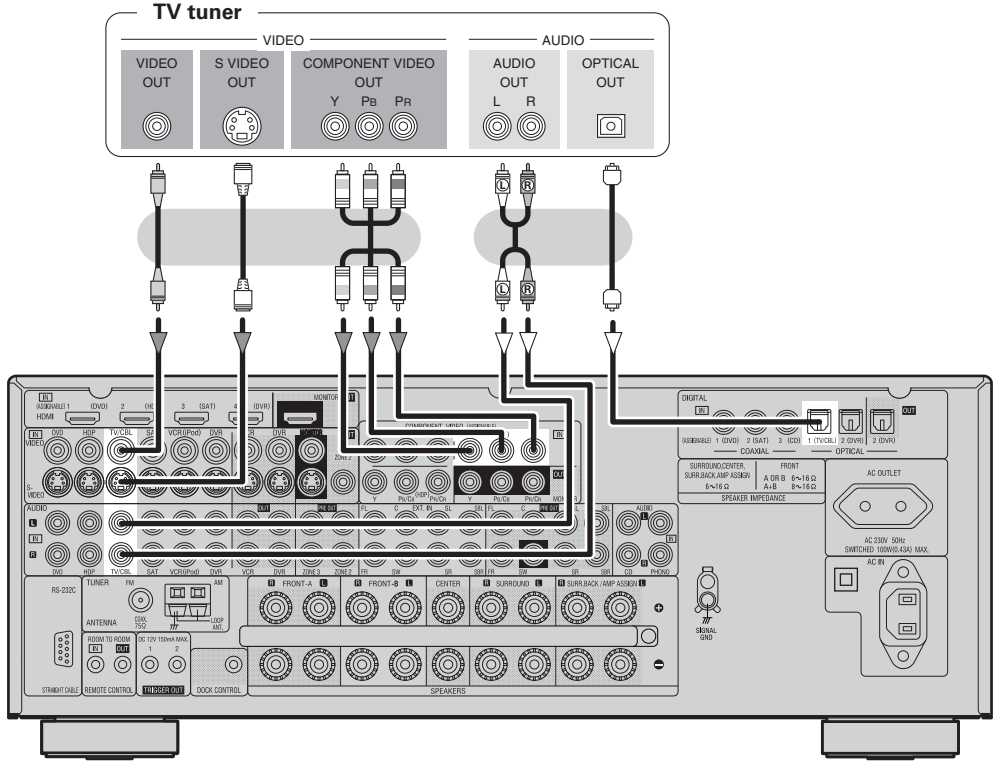
Use a DENON control dock for iPod (ASD-1R, ASD-3N or ASD-3W sold separately) to connect the iPod to the AVR-2809. For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions.



- 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" – "(input source to which iPod Dock assigned)" – "Assign" – "iPod Dock" (☞page 37).

TV/CABLE Tuner

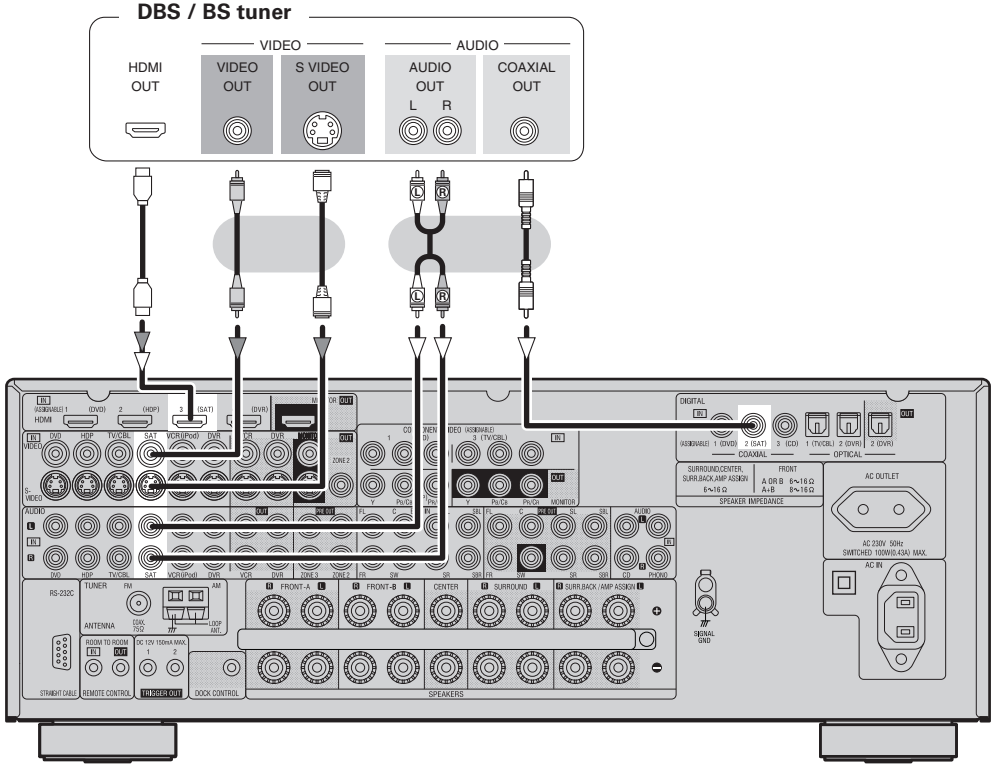
Select the terminal to use and connect the device.



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.



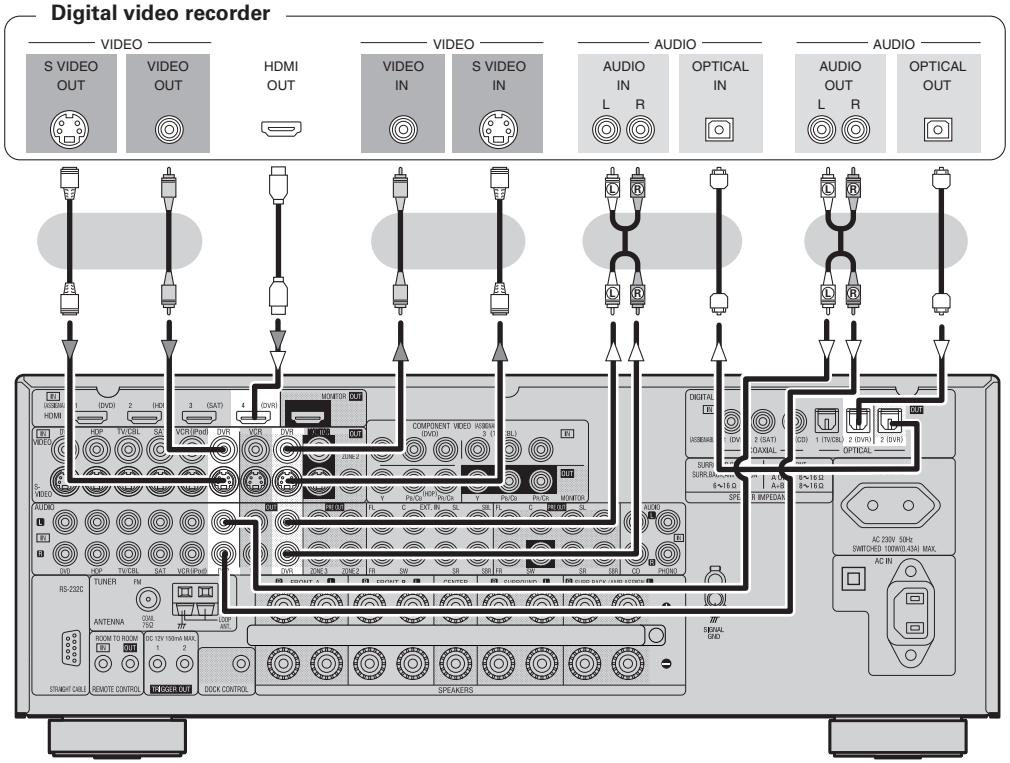
- When using an optical digital cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (☞page 37).
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (☞page 37).

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.



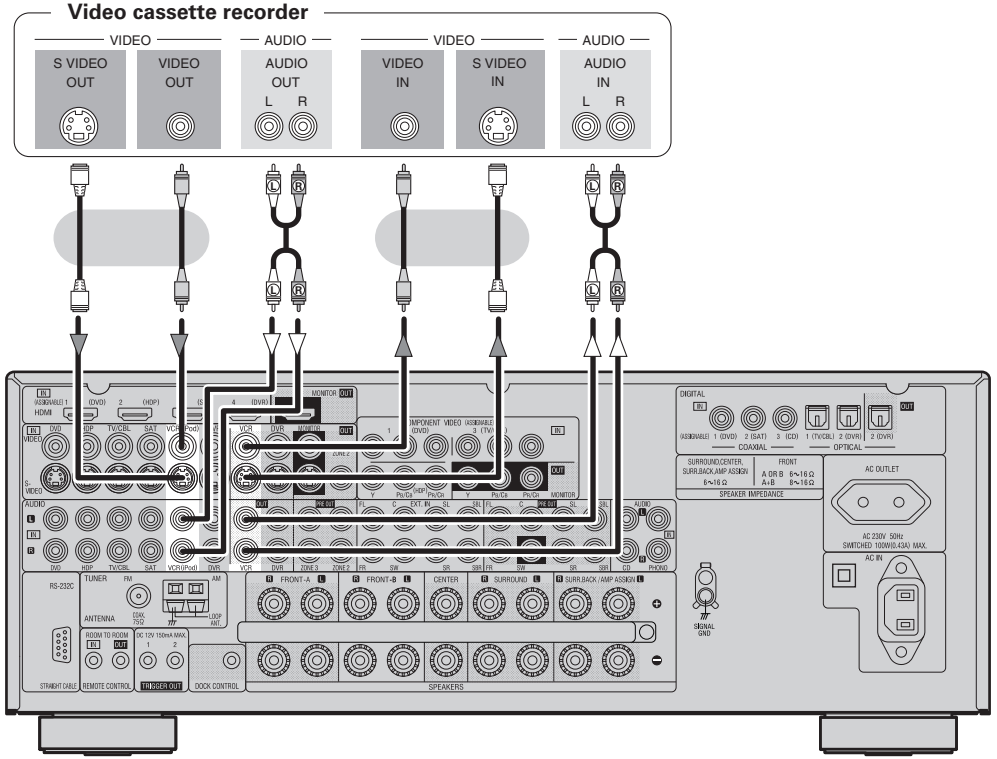
- Make analog connections if you wish to record analog audio signals.
- When recording via the AVR-2809, the playback device´s cable must be of the same type as the cable used to connect the AVR-2809´s DVR OUT connector.
  Example: TV IN → S-Video cable : DVR OUT → S-Video cable
  TV IN → Video cable : 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.

Video Cassette Recorder

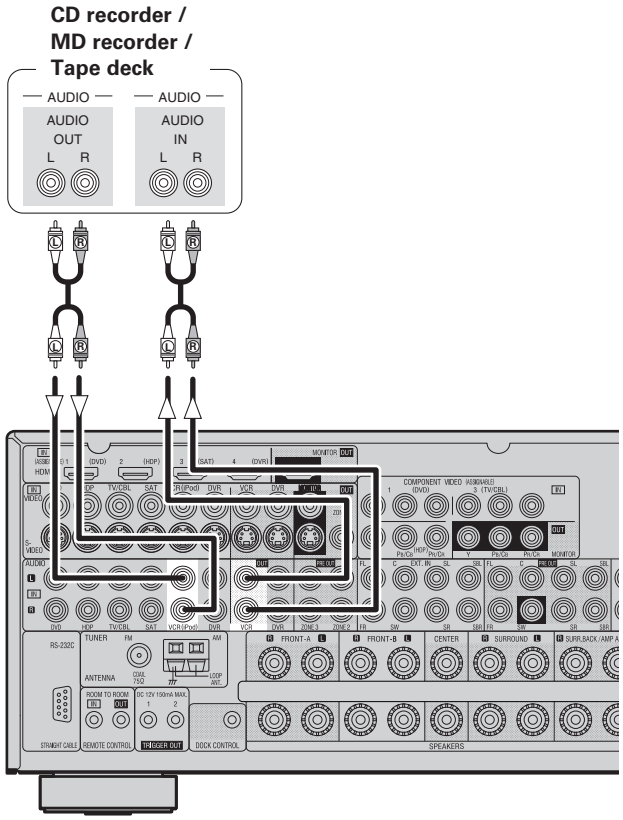
Select the terminal to use and connect the device.



- 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 VCR OUT connector.
  Example: TV IN → S-Video cable : VCR OUT → S-Video cable
  TV IN → Video cable : VCR 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).

CD Recorder / MD Recorder / Tape Deck

Select the terminal to use and connect the device.

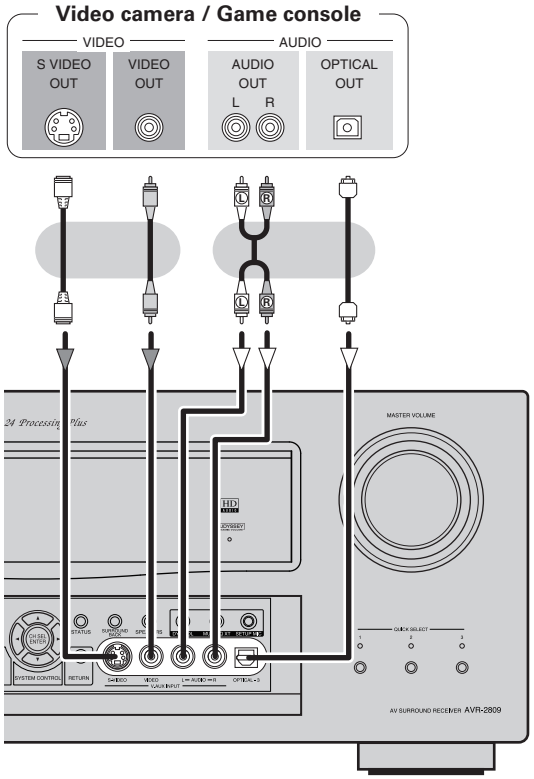


- Make analog connections if you wish to record analog audio signals, or digital connections if you wish to record digital audio signals, depending on the types of connectors on the components being used.
- When recording via the AVR-2809, the playback device´s cable must be of the same type as the cable used to connect the AVR-2809´s VCR OUT connector.
  Example: CD IN → Analog cable : VCR OUT → Analog cable

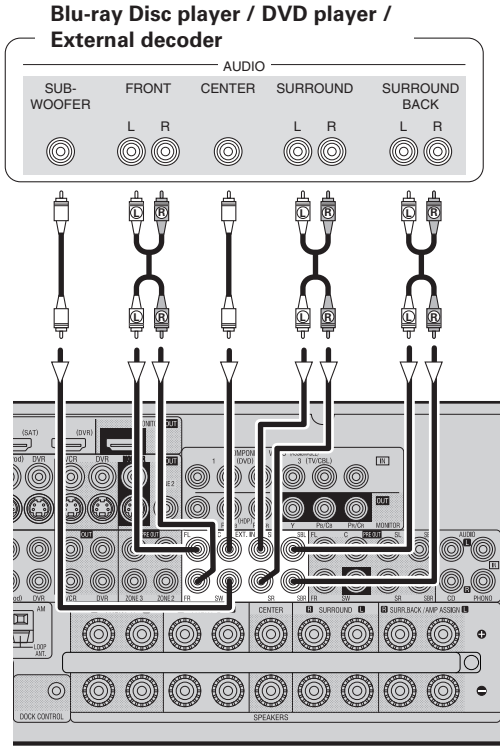
Connections to Other Devices

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

Video Camera / Game Console

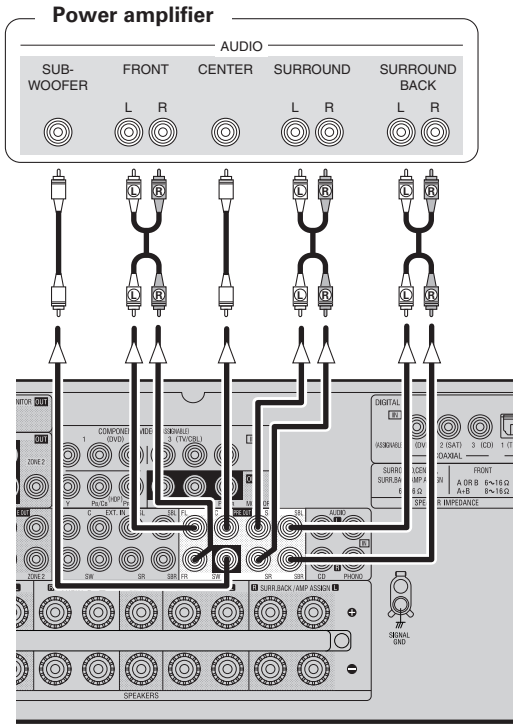


Component with Multi-channel Output Connectors



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

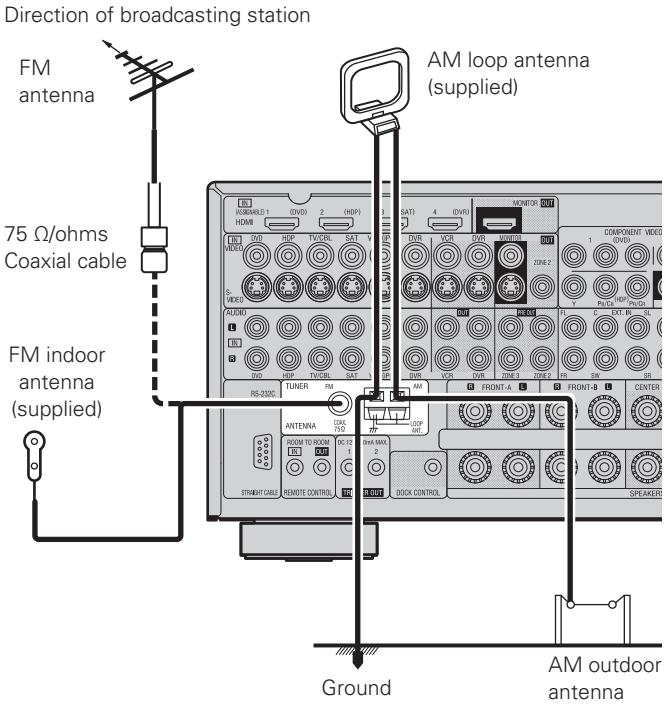
External Power Amplifier



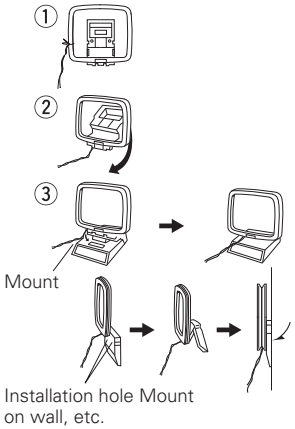
When using just one surround back speaker, connect it to the left channel (SBL).

Antenna Terminals

An FM antenna cable plug can be connected directly.



❑ AM loop antenna assembly



Remove the vinyl tie and take out the connection line.

Bend in the reverse direction.

a. With the antenna on top of any stable surface.

b. With the antenna attached to a wall.

Connection of AM antennas

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

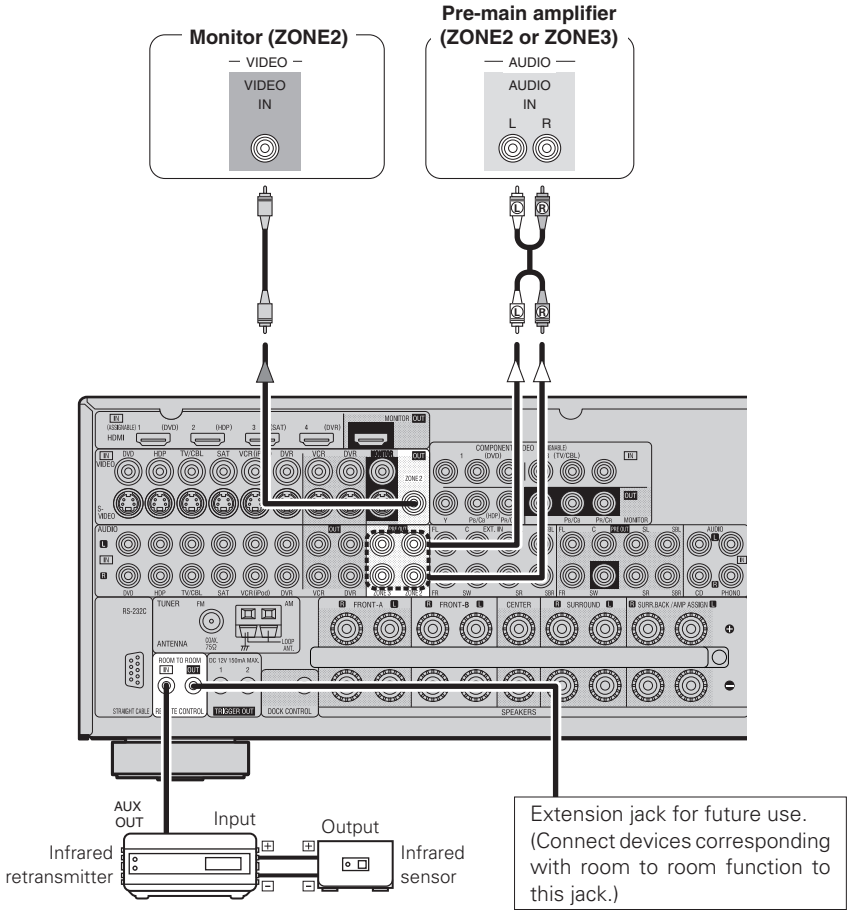
NOTE

- 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.

Multi-zone

ZONE2 or ZONE3 Pre-out Connections

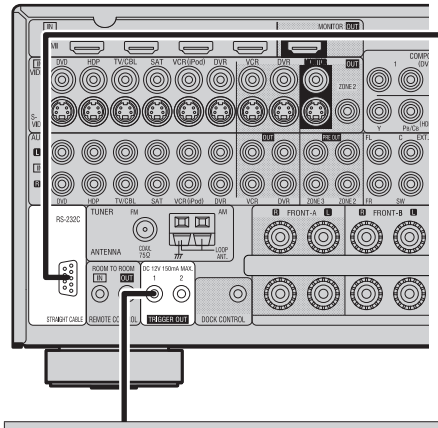
- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 or ZONE3 pre-out (variable or fixed level) connectors can be used to play a different program source in ZONE2 or ZONE3 the same time (☞page 62 ~ 64).
- When using an S-Video cable or a video cable for connection between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



Trigger output jack

The power of an external device equipped with a trigger input jack can be turned on and off in association with operations on the AVR-2809. For details, see menu "Manual Setup" – "Option Setup" – "Trigger Out" (☞page 33).

- Output: DC 12 V 150 mA MAX.
  Check the trigger input conditions of the connected device.

RS-232C connector

This connector is used for an external controller.

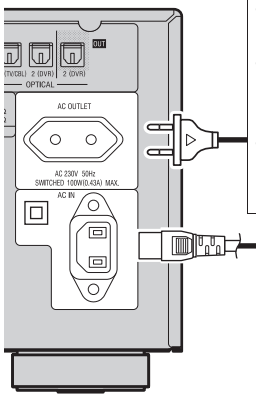
※ If you wish to control the AVR-2809 from an external controller using the RS-232C connector, perform the operation below beforehand.

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.
- When used in combination with an RF Remote Controller or RF Remote Receiver, make the settings at menu "Manual Setup" – "Option Setup" – "232C Port" – "2Way Remote" (☞page 33).
- On the menu, when setting "Manual Setup" – "Option Setup" – "232C Port" to "2Way Remote", you cannot use the RS-232C connector as an external controller (☞page 33).

Connecting the Power Cord

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



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.

Power cord (supplied)

To household power outlet (AC 230 V, 50 Hz)

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.

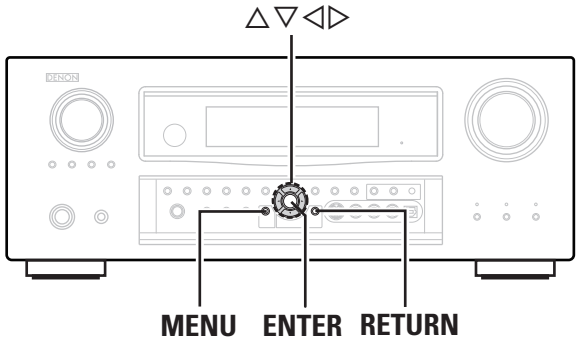
Once Connections are Completed

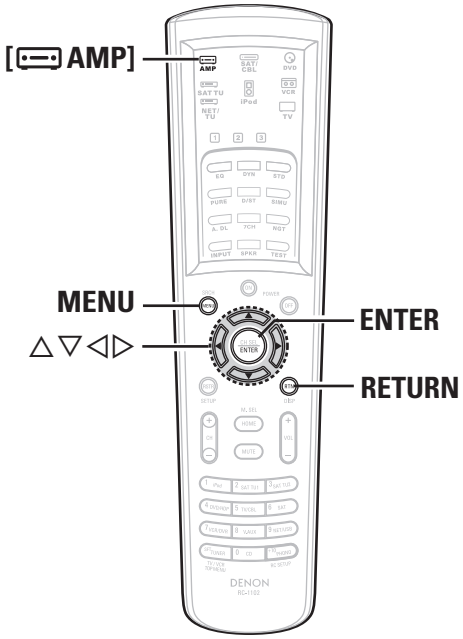
Turning the Power On (☞page 48)

Menu Operations

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]**





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.

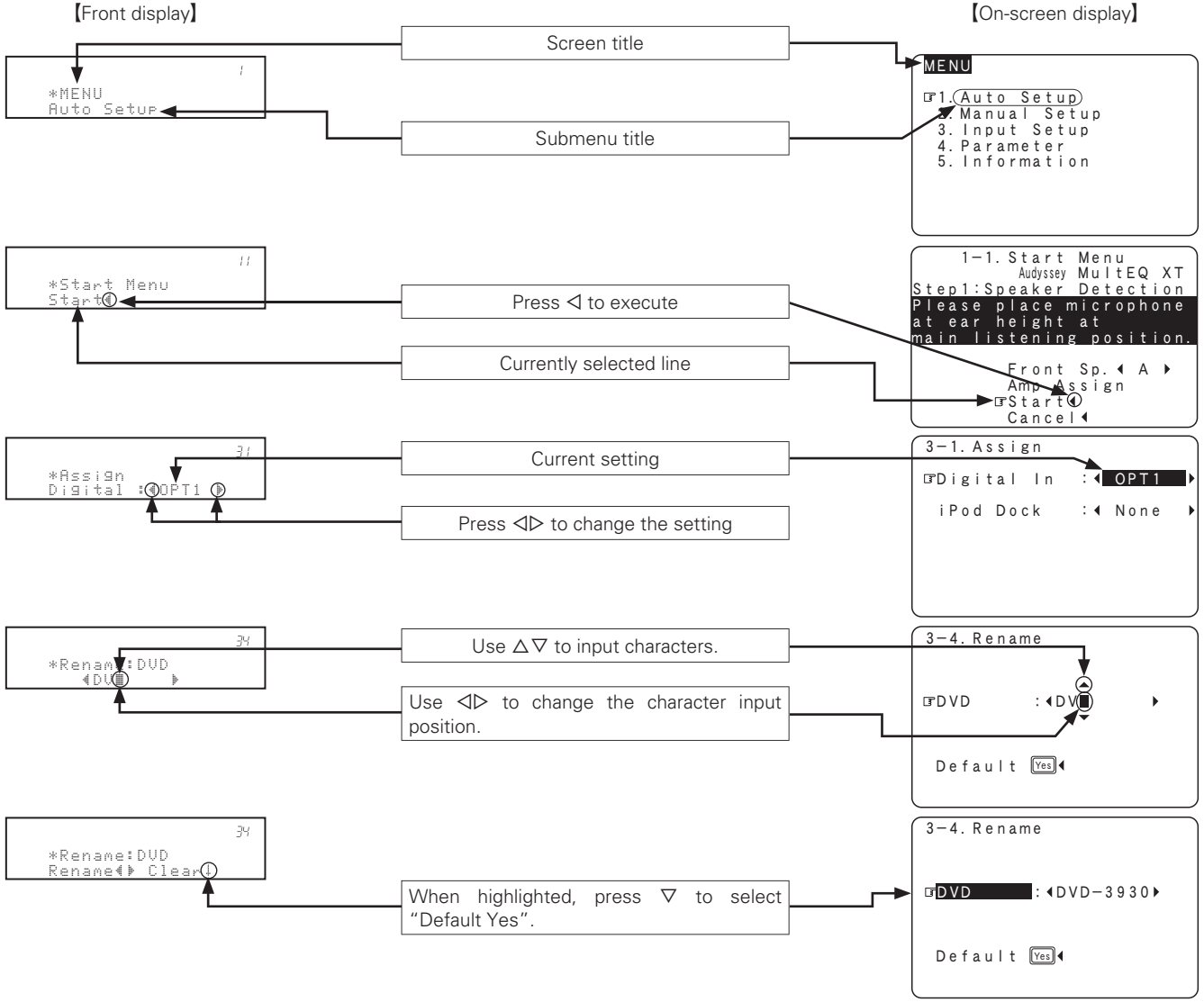
Example of Display of Default Values

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

[Selectable items] **A** **B** **A+B**

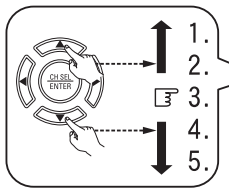
Examples of On-screen Display and Front Display

Some typical examples are described below.



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

Menu Map



MENU

1. Auto Setup
2. Manual Setup
3. Input Setup
4. Parameter
5. Information

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
- ❑ CD, DVD, HDP, TV/ CBL, SAT, VCR, DVR, V.AUX,
  - • Assign
  - • Video
  - • Input Mode
  - • Rename
  - • Source Level
  - • iPod

Information (☞page 46, 47)

- ❑ Status
  - • MAIN ZONE
  - • ZONE2
  - • ZONE3
- ❑ Audio Input Signal
- ❑ HDMI Information
- ❑ Auto Surround Mode
- ❑ Quick Select
- ❑ Preset Station

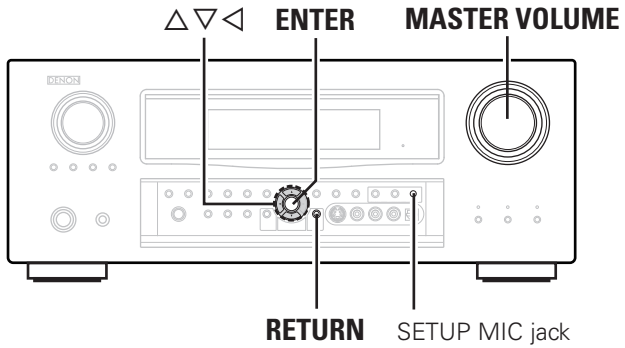
Parameter (☞page 40 ~ 45)

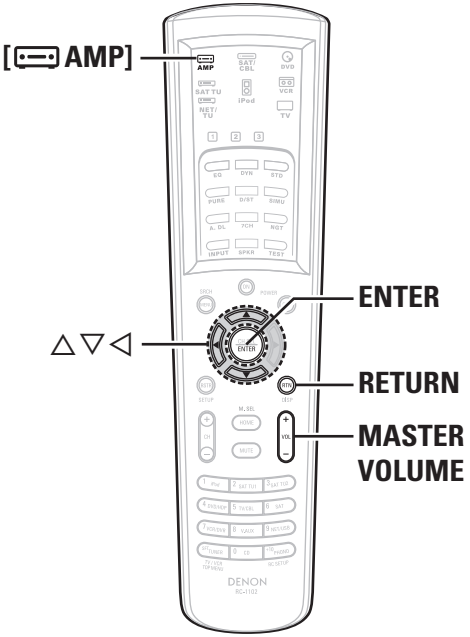
- ❑ Surround Parameter
  - • Mode
  - • Cinema EQ
  - • DRC
  - • Dynamic Range Compression
  - • LFE
  - • Center Image
  - • Panorama
  - • Dimension
  - • Center Width
  - • Delay Time
  - • Effect
  - • Effect Level
  - • Room Size
  - • AFDM
  - • SB CH Out
  - • SW ATT
  - • Subwoofer
- ❑ Tone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

Auto Setup

Symbols used to indicate buttons in this manual

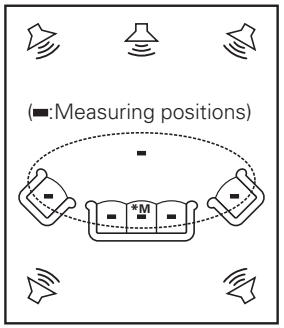
Button located on both the main unit and the remote control unit → **BUTTON**
Button only on the main unit → **<BUTTON>**
Button only on the remote control unit → **[BUTTON]**



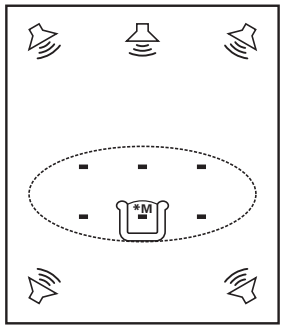


- Audyssey MultEQ® XT automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- Audyssey MultEQ XT optimizes a large listening area where one or more listeners are seated.
  Measurements are performed by placing the calibrated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

Example ①



Example ②



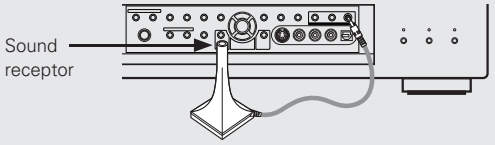
About the main listening position (*M)

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.

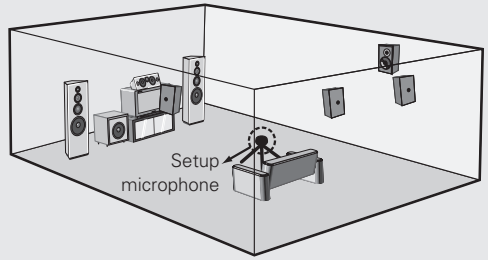
To make manual adjustments to the settings, see pages 26 ~ 28.

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.

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.

Auto Setup

Optimize settings for speakers in use.

1 Start Menu

The settings found at this stage are applied automatically.

【Auto setup flow】

Step 1: Speaker Detection

↓

Step 2: Measurement

↓

Step 3: Calculation

↓

Step 4: Check

↓

Step 5: Store

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.

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 (☞①)

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]

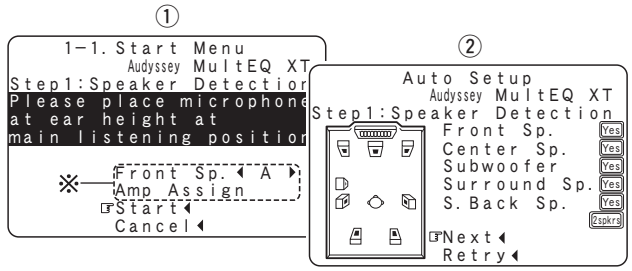
A	: Output test tone from front speakers A.
B	: Output test tone from front speakers B.
A+B	: Output test tone from front speakers A and B.

❑ 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).

Step 1 : Speaker Detection

● Menu screen ●



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".

① Select "Start ◀", then press ◁.
② Select "Next ◀", then press ◁.

❑ To cancel Auto Setup

Press △▽ to select "Cancel ◀", then press ◁.

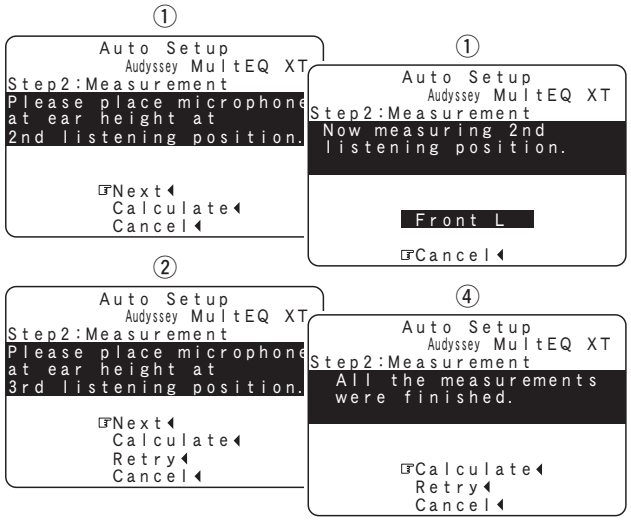
- If an error message appears during the measurements, check "Error Messages", take the advised action, then start the measurements again (☞page 25).
- If the result differs from the actual connection status or an error message appears, use ▽ to on-screen display "Retry ◀" and then press ◁ to repeat 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.

NOTE

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

Step 2 : Measurement

● Menu screen ●



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.

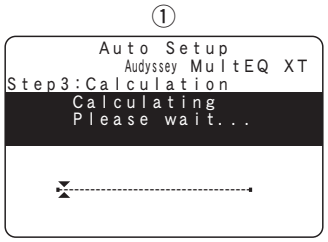
❑ To cancel Auto Setup

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

● Menu screen ●



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 "Calculate ◀" at Step 2, then press ◁.
- Analysis begins.

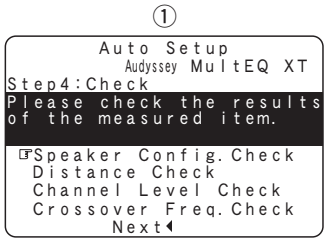
- Analysis takes several minutes to complete.
- The time required for this analysis depends on the number of speakers connected. The greater the number of speakers connected, the longer analysis will take.

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

● Menu screen ●



When analysis is complete, check the analysis results for the following four items.

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.

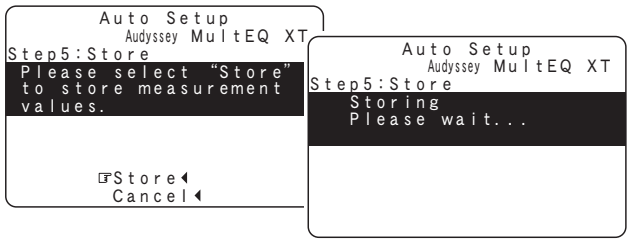
④ Press ▽ to select "Next ◀", then press ◁ to proceed to Step 5.

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.

Step 5 : Store

● **Menu screen** ●

①



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.

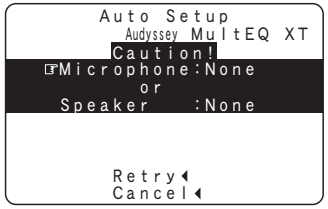
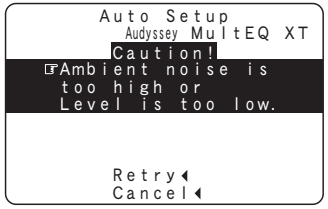
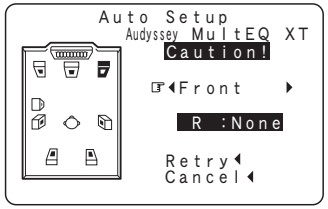
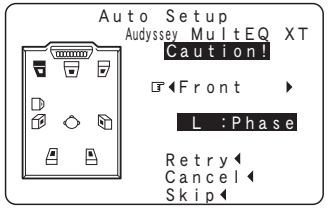
[Selectable items]

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.

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.

Error messages (examples)	Cause	Measures
	• Included setup microphone is not connected. • Not all speakers could be detected. • The front L speaker was not properly detected.	• Connect the included setup microphone to the SETUP MIC jack on the main unit. • Check the speaker connections.
	• Too much noise in the room for accurate measurements to be made. • Speaker or subwoofer sound is too low for accurate measurements to be made.	• Either turn off any device generating noise or move it away. • Try again when the surroundings are quieter. • Check the speaker installation and the direction in which the speakers are facing. • Adjust the subwoofer's volume.
	• Displayed speaker could not be detected. · The front R speaker were not properly detected. · Only one channel of the surround speakers was detected. · Sound was output from the R channel when only one surround back speaker was connected. · The surround back, but the surround speaker was not detected.	• Check the connections of the displayed speaker.
	• Displayed speaker connected with the polarities reversed.	• Check the polarities of the displayed speaker. • 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".

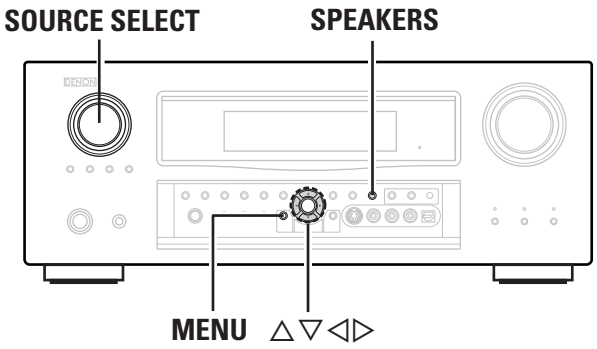
Select "Retry" to measure again.

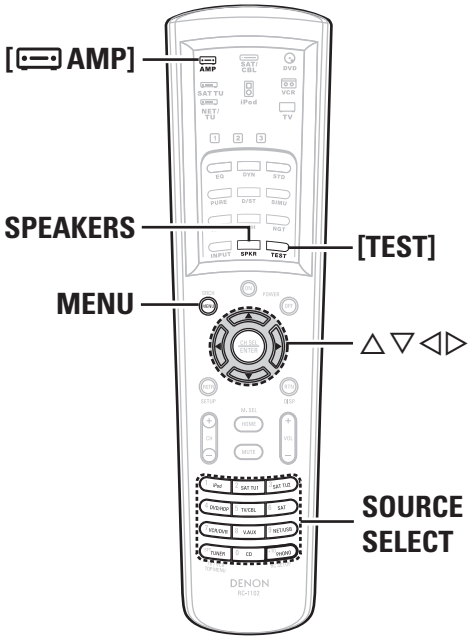
NOTE Be sure to turn the power off before checking the speaker connections.

Manual Setup

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]**





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** ●

```
MENU
 1. Auto Setup
☞2. Manual Setup
 3. Input Setup
 4. Parameter
 5. Information
```

```
2. Manual Setup
☞1. Speaker Setup
 2. HDMI Setup
 3. Audio Setup
 4. Zone Setup
 5. Option Setup
```

```
2−1. Speaker Setup
☞1. Speaker Config.
 2. Subwoofer Setup
 3. Distance
 4. Channel Level
 5. Crossover Freq.
 6. Front Speaker Setup
```

1 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] **Large** **Small** **None** **2spkrs** **1spkr**

Large :Select this when using large speakers with ample low frequency reproduction capabilities.

Small :Select this when using small speakers without ample low frequency reproduction capabilities.

None :Select this when no speaker is connected.

Yes :Select this when a subwoofer is connected.

No :Select this when no subwoofer is connected.

2spkrs **1spkr** :
Select the number of surround back speakers.

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).

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

- 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.

2 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.

3 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** : Can be selected when "Meters" is set.

1ft **0.1ft** : Can be selected when "Feet" is set.

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.

NOTE

Set the distance between the listening position and the various speakers to no more than 6.00 meters (20.0 ft).

4 Channel Level

Adjust channel levels to obtain equal volume from all speakers.

Test Tone

Select test tone playback method.

[Selectable items]

Auto : Automatically switch speaker from which test tone is output.

Manual : Manually switch speaker from which test tone is output.

Test Tone Start

Output test tone.

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

*: In the case of a subwoofer, reducing the volume when it is at "–12dB" will change the setting to "OFF" (none).

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.

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**

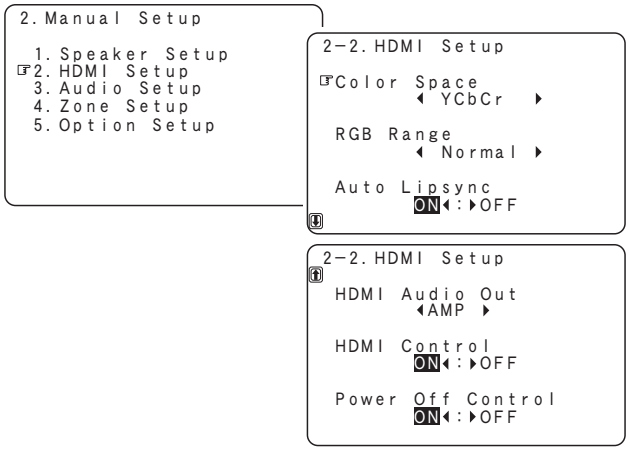
NOTE

When set to "Custom", **SPEAKERS** does not operate.

HDMI Setup

Make settings for HDMI video/audio output.

● **Menu screen** ●



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.

3 Auto Lipsync

Automatic compensation for timing shift in audio and video output.

[Selectable items] **ON** **OFF**

4 HDMI Audio Out

Select HDMI audio output device.

[Selectable items]

AMP : Use speakers connected to receiver for audio playback.

TV : Use speakers of TV for audio playback.

NOTE

When the HDMI control function is operating, the setting of audio playback in the connected TV takes priority (☞page 54 "HDMI Control Function").

5 HDMI Control

Make settings for HDMI control function.

[Selectable items] **ON** **OFF**

Please consult the operating instructions for each connected device to check the settings.

NOTE

For details, see "HDMI Control Function" (☞page 54).

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.

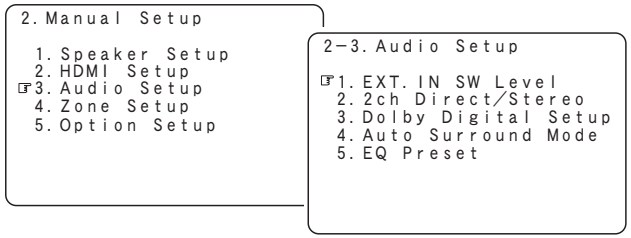
NOTE

- 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** ●



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.

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**

NOTE

Set the distance between the listening position and the various speakers to no more than 6.00 meters (20.0 ft).

3 Dolby Digital Setup

Set dynamic range for downmix playback of Dolby Digital sources.

[Selectable items]

ON : Compression is used. Select this if sound from front speakers is distorted.

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

- 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.

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.

"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.

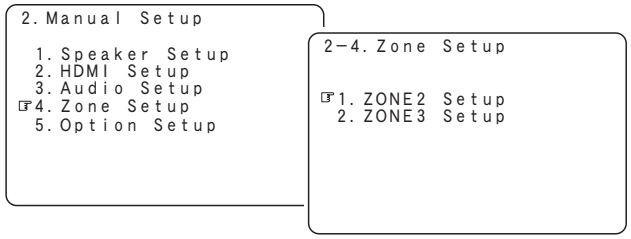
[Selectable items] **63Hz** **125Hz** **250Hz** **500Hz** **1kHz** **2kHz** **4kHz** **8kHz** **16kHz**

[Variable range] **–20dB** ~ **0dB** ~ **+6dB**

Zone Setup

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

● **Menu screen** ●



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.

[Selectable items]

- **Stereo** : Select stereo output.
- **Mono** : Select monaural output.

When menu "Manual Setup" – "Option Setup" – "Amp Assign" (☞page 31) is set to ZONE2/3-MONO", the "Channel" setting is automatically set to "Mono".

Volume Level

Adjust the main volume level.

[Selectable items]

- **VAR** : Allow volume adjustment by remote control.
- **–40dB** : Fix the volume to –40 dB.
- **0dB** : Fix the volume to 0 dB.

"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).

Volume Limit

Make a setting for maximum volume.

[Selectable items]

- **OFF** : Do not set a maximum volume.
- **–20dB** : Set the maximum volume to –20 dB.
- **–10dB** : Set the maximum volume to –10 dB.
- **0dB** : Set the maximum volume to 0 dB.

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.

[Selectable items]

- **Last** : Use the memorized setting from the last session.
- **– – –** : Always use the muting on condition when power is turned on.
- **–70dB ~ 18dB** : Set the volume level when the power is turned on in units of 1 dB.

This can be set when "Volume Level" is set to "VAR".

Mute Level

Set the amount of attenuation when muting is on.

[Selectable items]

- **Full** : The sound is cut off entirely.
- **–40dB** : The sound is attenuated by 40 dB.
- **–20dB** : The sound is attenuated by 20 dB.

Option Setup

Make various other settings.

● **Menu screen** ●

```
2. Manual Setup

  1. Speaker Setup
  2. HDMI Setup
  3. Audio Setup
  4. Zone Setup
☞5. Option Setup
```

```
2–5. Option Setup
☞1. Amp Assign
  2. Vol. Control
  3. Source Delete
  4. On–Screen Display
  5. Quick Select Name
  6. Trigger Out
  7. Remote ID Setup
  8. 232C Port
  9. Display
  10. Setup Lock
```

1 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).

[Selectable items]

- **7.1ch** : The surround back channel is output from the speakers connected to the SURR.BACK/AMP ASSIGN terminals.
- **ZONE2** : When ZONE2 power is on, ZONE2 sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN terminal.
- **ZONE3** : When ZONE3 power is on, ZONE3 sound is emitted from the speaker connected to the SURR.BACK/AMP ASSIGN terminal.
- **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 SURR.BACK/AMP ASSIGN (R) terminal.
- **FrontA Bi-Amp** : The Front A channel for Bi-Amp use is output from the speakers connected to the SURR. BACK/AMP ASSIGN terminals.
- **FrontB Bi-Amp** : The Front B channel for Bi-Amp use is output from the speakers connected to the SURR. BACK/AMP ASSIGN terminals.

For details, see "Amp Assign / Multi-zone Connections and Operations" (☞page 62, 63).

2 Volume Control

Set the MAIN ZONE volume setting.

Volume Limit

Make a setting for maximum volume.

[Selectable items]

- **OFF** : Do not set a maximum volume.
- **–20dB** : Set the maximum volume to –20 dB.
- **–10dB** : Set the maximum volume to –10 dB.
- **0dB** : Set the maximum volume to 0 dB.

Power On Level

This sets the volume set when the MAIN ZONE's power is turned on.

[Selectable items]

- **Last** : Use the memorized setting from the last session.
- **– – –** : Always use the muting on condition when power is turned on.

[Variable range]

- **–80dB ~ +18dB** : Set the volume level when the power is turned on in units of 1 dB.

Mute Level

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

[Selectable items]

- **Full** : The sound is cut off entirely.
- **–40dB** : The sound is attenuated by 40 dB.
- **–20dB** : The sound is attenuated by 20 dB.

3 Source Delete

Remove input sources that are not used from the display.

[Selectable items]

- **ON** : Use this source.
- **Delete** : Do not use this source.

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]

- **ON** : Activate the screensaver if there is no activity for about 3 minutes.
- **OFF** : Turn the screensaver function off.

When "Screensaver" is set to "ON", the screensaver is activated if no operation is performed for about 3 minutes.
When you press △▽◁ ▷, the screensaver is cancelled and the screen before that screensaver started is displayed.

Text

Input source and mode display.

[Selectable items]

- **ON** : Turn display on.
- **OFF** : Turn display off.

Master Volume

Master volume display during adjustment.

[Selectable items]

- **ON** : Turn display on.
- **OFF** : Turn display off.

Tuner Information

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

[Selectable items]

- **Always** : Show display continuously.
- **30sec** : Show display for 30 seconds after operation.
- **10sec** : Show display for 10 seconds after operation.
- **OFF** : Turn display off.

iPod Information

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

[Selectable items]

- **Always** : Show display continuously.
- **30sec** : Show display for 30 seconds after operation.
- **10sec** : Show display for 10 seconds after operation.
- **OFF** : Turn display off.

Display Mode

Select the on-screen display's display mode.

[Selectable items]

- **Mode1** : If there is no video signal, flickering of the on-screen display is not prevented.
- **Mode2** : Prevents flickering of the on-screen display when there is no video signal.
  Use this mode if the on-screen display does not appear in the Mode 1, as may happen according to the TV being used.

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.

Default

Reset the settings to the default values.

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.

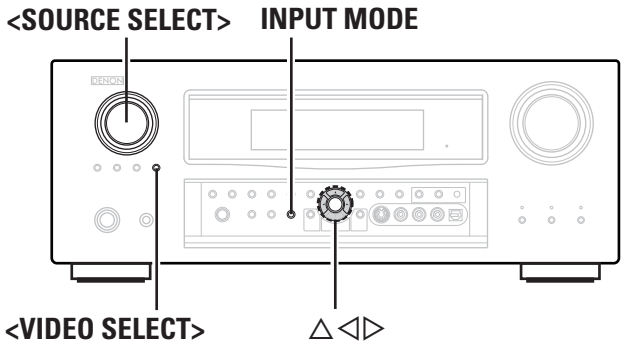
OFF : Turn protection off.

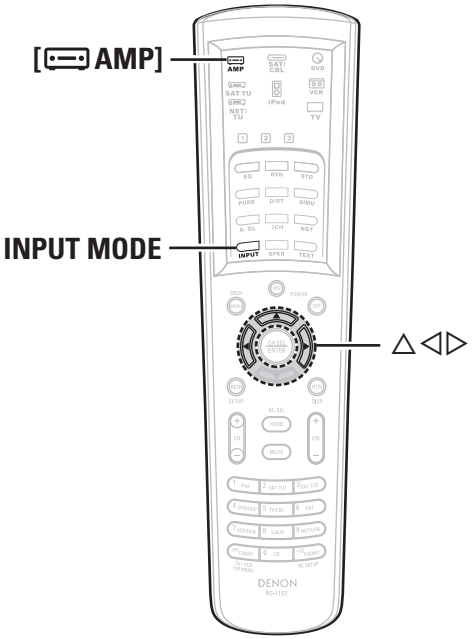
- When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt to operate related settings.
  - · RESTORER
  - · Night Mode
  - · MultEQ XT
  - · Dynamic EQ
  - · Dynamic Volume
  - · Channel Level
  - · Audio Delay
- To cancel the setting, press **MENU** to re-display the "Setup Lock" screen, then change the setting to "OFF".

Input Setup

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]**





Use this procedure to select the input source and make the settings related to playing input sources.

❑ TUNER (AM/FM)

This menu is for "TUNER".

● **Menu screen** ●

```
3. Input Setup
                ◖ TUNER ◗
                [FM/AM TU]
☞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
                ◖ PHONO ◗

☞1. Video
  2. Input Mode
  3. Rename
  4. 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
                ◖ CD ◗

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

※ The menu settings below can be made for these input sources when "iPod Dock" is set to "Assign".

```
3. Input Setup
                ◖ VCR
                [VCR/iPod
  1. Assign
  2. Video
  3. Input Mode
  4. Rename
  5. Source Level
☞6. iPod
```

```
3-6. iPod

☞Repeat Mode   :◖ All ◗

 Shuffle Mode  :◖ OFF ◗
```

Changing the input source within Input Setup

```
3. Input Setup
☞◖ CD ◗

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

Press △ to align the cursor with the top right of the menu screen, and press ◁ ▷ to change the input source.

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

Settings Related to Playing Input Sources

1 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 in manually, then preset it manually.

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

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 | HDP | TV/CBL | SAT | VCR | DVR | V.AUX

[Selectable items]

DVD | HDP | TV/CBL | SAT | VCR | DVR | V.AUX :
Select video input source to view.

Source :
The video and audio for the same input source are played.

Operating from the main unit

Press **<VIDEO SELECT>**, then turn **<SOURCE SELECT>** until the desired picture appears.

※ To cancel, press **<VIDEO SELECT>**, then turn **<SOURCE SELECT>** and select "Source".

NOTE

- It is not possible to select HDMI input signals.
- When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output.
- Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

Convert

Automatically convert video input signal to monitor output format.

[Input source] DVD | HDP | 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".

i/p Scaler

Make settings for i/p scaler function.

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

[Selectable items]

Auto : Detect monitor panel resolution and automatically set output resolution.

480p/576p : Output at 480p/576p resolution.

1080i : Output at 1080i resolution.

720p : Output at 720p resolution.

1080p : Output at 1080p resolution.

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

NOTE

- It is not possible to convert "1080i" signals into "720p" format.
- It is not possible to convert "720p" signals into "1080i" format.

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".

5 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).

Input Mode

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.

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

[Selectable items]

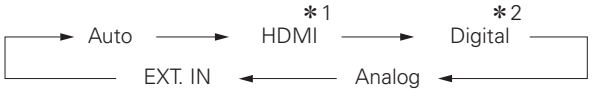
- **Auto** : Automatically detect input signal and perform playback.
- **HDMI** *1 : Play only signals from HDMI input. (Excluding CD)
- **Digital** *2 : Play only signals from digital input.
- **Analog** : Play only signals from analog input.
- **EXT. IN** : Play only signals from EXT. IN input.

*1: This can be selected for input sources for which the menu "Assign" setting is set to "HDMI In".
*2: This can be selected for input sources for which the menu "Assign" setting is set to "Digital In" (☞page 37).

- When a digital signal is properly input, the "DIG." indicator lights on the display. If the "DIG." indicator does not light, check the digital input connector assignment and the connections.
- The surround mode cannot be set if the input mode is set to "EXT. IN".

Operating from the main unit or main remote control unit

Press **INPUT MODE**.
Each time you press the button, the input mode display will change.



*1: This can be selected for input sources for which the menu "Assign" setting is set to "HDMI In".
*2: This can be selected for input sources for which the menu "Assign" setting is set to "Digital In" (☞page 37).

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 decode and play automatically.
- **PCM** : Decode and play only PCM input signals.
- **DTS** : Decode and play only DTS input signals.

- This can be selected for input sources for which the menu "Assign" setting is set to "HDMI In" or "Digital In" (☞page 37).
- Only set "PCM" and "DTS" when playing the respective signals.

6 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).

7 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.

8 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.

Input source	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	**HDMI1**	**HDMI2**	None	**HDMI3**	None	**HDMI4**	None

- With HDMI, the video and audio signals are transferred simultaneously. When HDMI is assigned to an input source, the audio signal switches to HDMI along with the video signal. To use with the digital audio input connectors assigned, set menu "Input Mode" to "Digital".
- When the AVR-2809 and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

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.

Input source	CD	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	**COAX3**	**COAX1**	None	**OPT1**	**COAX2**	None	**OPT2**	**OPT3**

Component In

Select component video input to assign to this source.

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

[Selectable items]

1-RCA : Assign component video 1 input connector.
2-RCA : Assign component video 2 input connector.
3-RCA : Assign component video 3 input connector.
None : No component video input connector assigned.

Input source	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	**1-RCA**	**2-RCA**	**3-RCA**	None	None	None	None

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.

9 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]

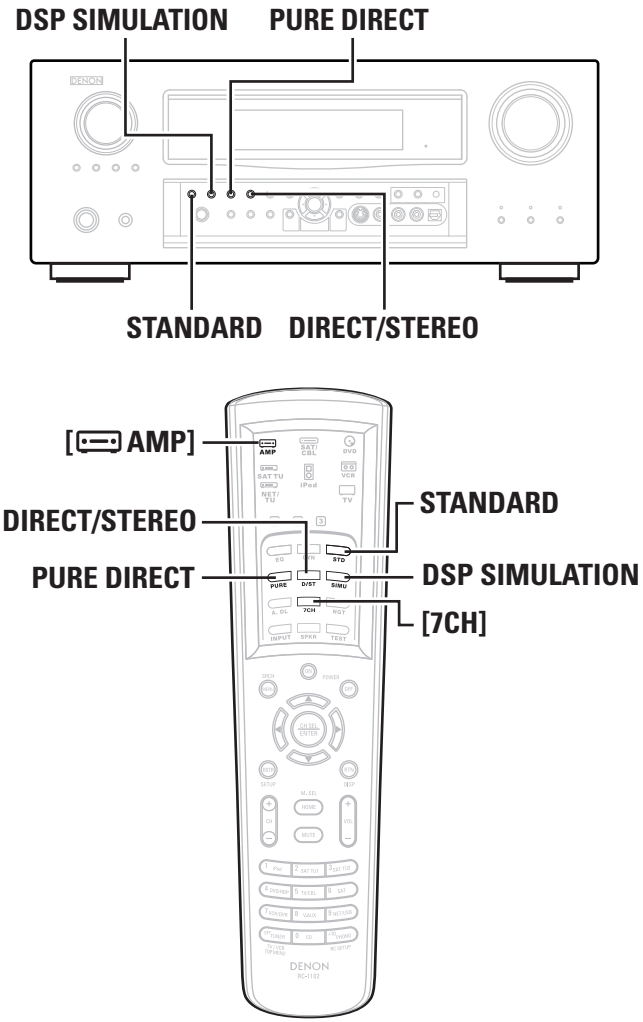
- **ON** : Shuffle mode on.
- **OFF** : Cancel shuffle mode.

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

Surround Modes

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]**



① 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 PLIIx or 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.

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

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.

Input signal	Display
DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX	DOLBY DIGITAL
	DOLBY DIGITAL EX
	DOLBY DIGITAL+PLIIx CINEMA
	DOLBY DIGITAL+PLIIx MUSIC
DOLBY DIGITAL Plus (∗4)	DOLBY DIGITAL +
DOLBY TrueHD (∗4)	DOLBY TrueHD
	DOLBY HD+EX
	DOLBY HD+PLIIx CINEMA
	DOLBY HD+PLIIx MUSIC
DTS (5.1ch) / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DTS SURROUND
	DTS+PLIIx CINEMA
	DTS+PLIIx MUSIC
	DTS+NEO:6
	DTS ES MTRX6.1 (∗1)
	DTS ES DSCRT6.1 (∗2)
	DTS 96/24 (∗3)
DTS-HD (∗4)	DTS-HD HI RES
	DTS-HD MSTR
	DTS-HD+NEO:6
	DTS-HD+PLIIx CINEMA
	DTS-HD+PLIIx MUSIC
PCM (multi ch) / DSD (multi ch)	MULTI CH IN
	MULTI IN+PLIIx CINEMA
	MULTI IN+PLIIx MUSIC
	MULTI CH IN 7.1

∗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.

② 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.

[Selectable items]

5CH / 7CH STEREO ∗1 ∗2 : This mode is for enjoying stereo sound from all speakers.

WIDE SCREEN : This mode is for enjoying the atmosphere of viewing a movie on a large screen.

SUPER STADIUM : This mode is suited for viewing sports programs.

ROCK ARENA : This mode is for enjoying the atmosphere of a live concert in an arena.

JAZZ CLUB : This mode is for enjoying the atmosphere of a live concert in a jazz club.

CLASSIC CONCERT : This mode is for appreciating classical concert programs.

MONO MOVIE ∗3 : This mode is for playing monaural movie sources with surround sound.

VIDEO GAME : This mode is suited for achieving surround sound with video games.

MATRIX : This mode lets you add a sense of expansion to stereo music sources.

VIRTUAL : This mode is for enjoying surround effects using only the front speakers or headphones.

∗1: "5CH STEREO" is displayed when "Surround Parameter" – "SB CH Out" is "OFF", and "Amp Assign" is set to "ZONE2" (☞page 31, 42).
∗2: Can also be selected by pressing **[7CH]**.
∗3: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.

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.

③ 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
Analog signal / PCM (2ch) / Dolby Digital source / DTS source / Other 2-channel digital signals	DIRECT
DSD (2ch)	DSD DIRECT (∗)
PCM (multi ch)	MULTI CH DIRECT
	M DIRECT + PLIIx CINEMA
	M DIRECT + PLIIx MUSIC
	M DIRECT 7.1
DSD (multi ch)	DSD MULTI DIRECT (∗)

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

For details, see page 71.

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.

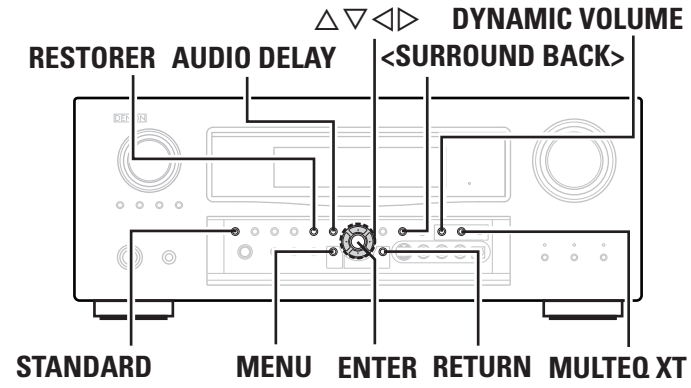
Press PURE DIRECT.

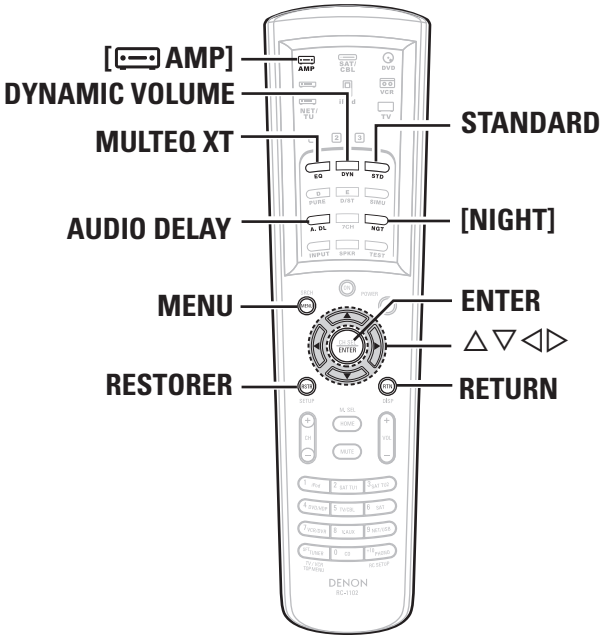
- To cancel, press **PURE DIRECT** again.
- When in the PURE DIRECT mode, the on-screen display is not displayed and the display on the main unit is turned off.
- If the HDMI input connector is selected, video outputs are output in the PURE DIRECT mode.
- The channel level and surround parameters in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

Parameter

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]**





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.

- **Whetheran 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).

❑ **Surround Parameter**
- **1 Mode**
- **2 Cinema EQ**
- **3 DRC**
- **4 Dynamic Range Compression**
- **5 LFE**
- **6 Center Image**
- **7 Panorama**
- **8 Dimension**
- **9 Center Width**
- **10 Delay Time**
- **11 Effect**
- **12 Effect Level**
- **13 Room Size**
- **14 AFDM (Auto Flag Detect Mode)**
- **15 SB CH Out**
- **16 SUBWOOFER ATT**
- **17 Subwoofer**

❑ **Tone**
- **18 Tone Control**
- **19 Bass**
- **20 Treble**

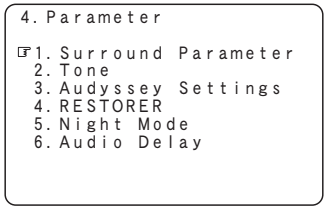
❑ **Audyssey Settings**
- **21 MultEQ XT**
- **22 Dynamic EQ**
- **23 Dynamic Volume**
- **24 Setting**

❑ **RESTORER**

❑ **Night Mode**

❑ **Audio Delay**

● **Menu screen** ●



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.).

❑ **In the PLIIx or PLII mode**
[Selectable items]

- **Cinema** : This is the mode for cinema source.
- **Music** : This is the mode for music source.
- **Game** : This is the mode for game source.
- **PL** : Dolby Pro Logic playback mode (PLII mode only). (This is the mode for 4-channel playback (front L, front R, center, surround (MONO)).)

❑ **In the DTS NEO:6 mode**
[Selectable items]

- **Cinema** : This is the mode for cinema source.
- **Music** : This is the mode for music source.

The "Music" mode is also effective for movie sources including a lot of stereo music.

2 Cinema EQ

Soften the treble range of movie soundtracks for better understanding.

[Selectable items]

- **ON** : "Cinema EQ" is used.
- **OFF** : "Cinema EQ" is not used.

3 DRC

Compress dynamic range (difference between loud and soft sounds).

[Selectable items] **Auto** **Low** **Middle** **High** **OFF**

This can be set in the Dolby TrueHD mode.

4 Dynamic Range Compression

Compress dynamic range (difference between loud and soft sounds).

[Selectable items]

- **OFF** : Turn dynamic range compression off.
- **Low** : Low setting.
- **Mid** : Middle setting.
- **High** : High setting.

When playing DTS sources, this is only displayed for compatible software.

5 LFE

Adjust the low-frequency effects level (LFE).

[Variable range] **–10dB** ~ **0dB**

For proper playback of the different program sources, we recommend setting to the values below.
- Dolby Digital sources: "0 dB"
- DTS movie sources: "0 dB"
- DTS music sources: "–10 dB"

6 Center Image

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

[Variable range] **0.0** ~ **0.3** ~ **1.0**

7 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**

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.
- **Med.S** : Simulate acoustics of a medium-small room.
- **Medium** : Simulate acoustics of a medium room.
- **Med.L** : Simulate acoustics of a medium-large 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.
① Adopt "7.1ch" (Default) for the "Amp Assign" setting.
② Adopta 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.

Tone

Adjust the tonal quality of the sound.

18 Tone Control

Turn tone adjustments off.

[Selectable items]

ON : Allow tone adjustment (treble, bass).

OFF : Playback without tone adjustment.

The tone cannot be adjusted when in the DIRECT mode.

NOTE

When the "Dynamic EQ" setting is "ON", setting is not possible.

19 Bass

Adjust low frequency range (bass).

[Variable range] **–6dB ~ +6dB**

20 Treble

Adjust high frequency range (treble).

[Variable range] **–6dB ~ +6dB**

"Bass" and "Treble" can be set when "Tone Control" is set to "ON".

Audyssey Settings

Select MultEQ XT, Dynamic EQ and Dynamic Volume.

21 MultEQ XT

Select the type of room correction desired from the following list:

[Selectable items]

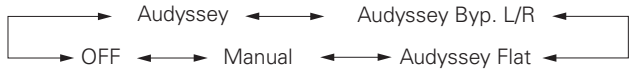
Audyssey : Optimize frequency response of all speakers.

Audyssey Byp. L/R : Optimize frequency response of speakers except front L and R speakers.

Audyssey Flat : Optimize frequency response of all speakers to flat response.

Manual : Apply frequency response set with "Manual EQ" (☞page 30).

OFF : Turn equalizer off.



Operating from the main unit or main remote control unit

Press **MULTEQ XT**.

- When "Audyssey", "Audyssey Byp. L/R" or "Audyssey Flat" is selected, "AUDYSSEY MULTEQ XT" lights.
- After running Auto Setup, if the Speaker Configuration, Distance, Channel Level, and Crossover Frequency have changed without increasing the number of speakers measured, only "AUDYSSEY MULTEQ XT" lights.

- "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after the auto setup procedure has been performed.
- After performing "Auto Setup", the "MultEQ XT" setting automatically becomes "Audyssey".
- If the settings of speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected. Either perform Auto Setup again, or return to the setting after running Auto Setup with "Auto Setup" – "Parameter Check" – "Restore".
- MultEQ XT and Manual EQ set to "Not Used" with "Manual Setup" – "Audio Setup" – "EQ Preset" – "EQ Customize" (☞page 30) on the menu, cannot be selected.
- When using headphones, "MultEQ XT" is set to "OFF".

For details on adjusting individual parameters, see "Adjusting the parameters" (☞page 40).

22 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.

[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**.

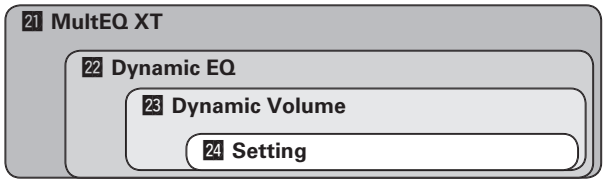
Dynamic EQ / Volume : ON → Dynamic EQ : ON / Volume : OFF → Dynamic EQ / Volume : OFF → (back to Dynamic EQ / Volume : ON)

- "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".

❑**Operating conditions for each function**
- **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"



23 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.

[Selectable items]

ON : Use Dynamic Volume.
The Dynamic Volume effect will be at the level of the "Setting".

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 : ON / Volume : OFF → Dynamic EQ / Volume : OFF → (back to Dynamic EQ / Volume : ON)

AUDYSSEY DYNAMIC VOLUME ☼ "Green"

AUDYSSEY DYNAMIC VOLUME ☼ "Red"

- "Dynamic Volume" can only be set when auto setup has been performed.
- "Dynamic Volume" 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.

24 Setting

Can be set when "Dynamic Volume" is set to "ON".
Set Dynamic Volume effect.

[Selectable items]

Midnight : High setting affects volume the most, causing all sounds to be of equal loudness.

Evening : Middle setting prevents loud and soft sounds from being much louder and softer respectively than average sounds.

Day : Low setting provides the least adjustments to the loudest and softest of sounds.

NOTE

- "Setting" can only be set when auto setup has been performed.
- "Setting" 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.
  - If "Dynamic Volume" setting is "OFF".

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 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.
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.

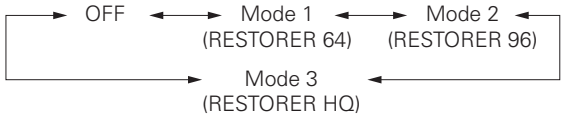
Mode1 (RESTORER 64):
Optimized mode for compressed sources with very weak highs.

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 "Mode3". All others are set to "OFF".

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



Operating from the main unit or 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.

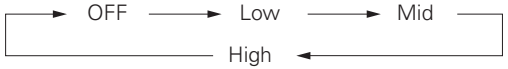
Set the dynamic range compression of the output audio.

[Selectable items]

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

Operating from the main remote control unit

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



NOTE

- 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.

Audio Delay

Compensate for mismatched timing between video and audio.

Delay audio.
This sets the delay time for audio signals.

[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.)

Operating from the main unit or main remote control unit

Press **AUDIO DELAY**, then press ◁ ▷ to adjust audio delay.

NOTE

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

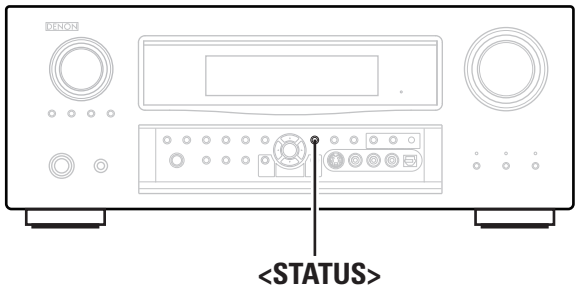
- This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large", "Tone Control" to "OFF" and "MultEQ XT", "RESTORER" and "Night Mode" to "OFF".)
- When the Auto Lipsync Correction function is operating, you can set within the range 0 ~ 100 ms.
- Store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

For details on adjusting individual parameters, see "Adjusting the parameters" (☞page 40).

Information

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.

Status

Shows information about current settings.

● **Menu screen** ●

```
5. Information

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

```
5-1. Status

Select Source:TUNER
Name          :FM/AM TU

Surround Mode:
 STEREO

Input Mode  :Analog

                    1/4
```

1 MAIN ZONE

Shows information about settings for MAIN ZONE.
The items displayed differ according to the input source.

[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** etc.

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

  1. Status
☞2. Audio Input Signal
  3. HDMI Information
  4. Auto Surround Mode
  5. Quick Select
```

```
5-2. Audio Input Signal

 Surround Mode:
  DOLBY DIGITAL EX


 SIGNAL:Dolby Digital
 fs     :48kHz
 Format:3/2/.1
 Offset:-4dB
```

[Items to be checked]

Surround Mode : The currently set surround mode is displayed.

SIGNAL : The input signal type is displayed.

fs : The input signal's sampling frequency is displayed.

Format : The number of channels in the input signal (front, surround, LFE) is displayed.

Offset : The dialogue normalization correction value is displayed.

Flag : "MATRIX" is displayed if the input signal has undergone matrix processing, "DISCRETE" if the input signal has undergone discrete processing.

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>**.

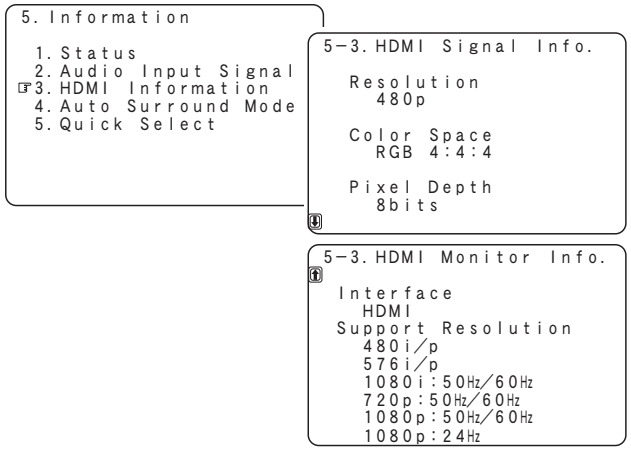
```
Dial.Norm
Offset  - 4dB
```

The figure is the correction value when the standard level is corrected.

HDMI Information

Shows information about HDMI input signals and monitor.

● **Menu screen** ●



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.

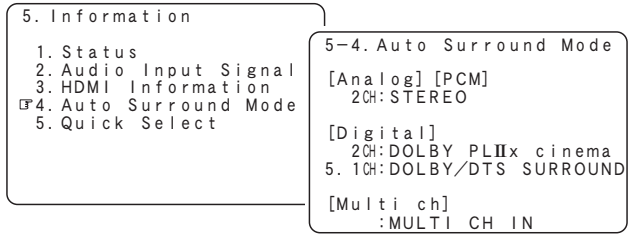
[Items to be checked]

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.

● **Menu screen** ●



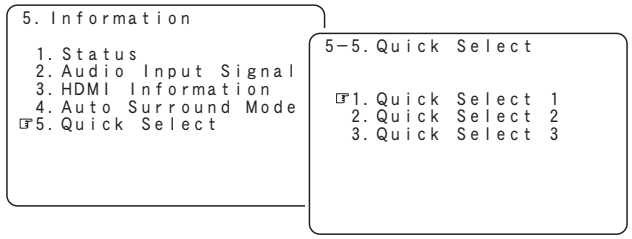
[Items to be checked]

Analog/PCM 2CH **Digital 2CH** **Digital 5.1CH** **Multi ch**

Quick Select

Shows information about quick select settings.

● **Menu screen** ●



[Items to be checked]

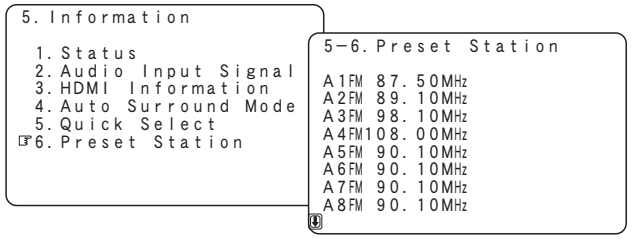
Name **Input Source** **Input Mode** **Volume Level** **MultEQ XT** **Dynamic EQ** **Dynamic Volume** **Front Sp** **Analog/PCM 2CH** **Digital 2CH** **Digital 5.1CH** **Multi ch**

For instructions on storing settings at Quick Select 1 to 3, see page 55.

Preset Station

Shows information about preset stations.

● **Menu screen** ●



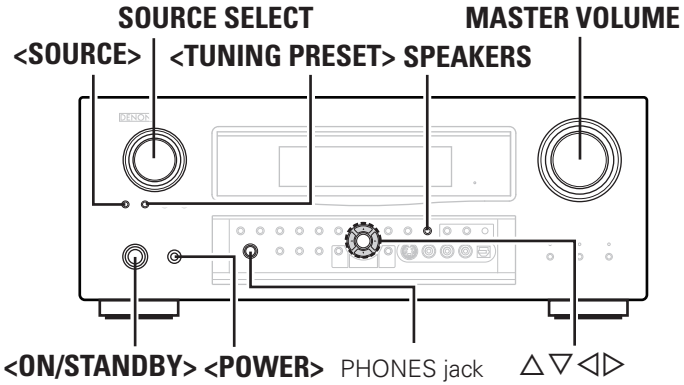
[Input source] **TUNER**

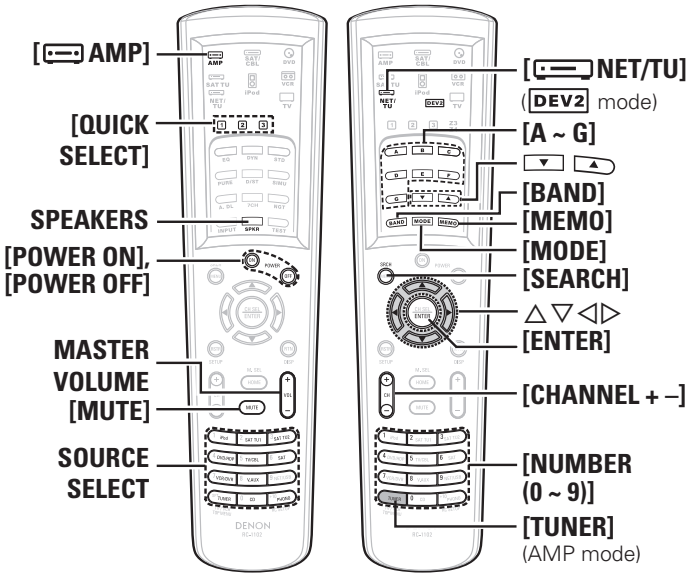
[Items to be checked] **A1 ~ G8**

Playback

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]**





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

①Press **<ON/STANDBY>** or **[POWER OFF]**.
The power is set to the standby mode.
②Press **<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>**.

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 B → Front A+B →

NOTE

When set to "Custom", **SPEAKERS** does not operate.

Playing Video and Audio Equipment

Basic Operation

1 Prepare the equipment.

①Load the BD, DVD, CD or other software in the player.
(☞See the operating instructions of the respective equipment.)
②To play a video equipment, switch the monitor input.
(☞See the monitor's operating instructions.)

2 Use SOURCE SELECT to select the input source.

3 Start playback.
(☞See the operating instructions of the respective equipment.)

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

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 DEV2 mode.
(☞page 56 "Remote Control Unit Operations")

3 Press [BAND] to select "FM" or "AM".

4 Tune in the desired broadcast station.

①**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.

②**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.

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.

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

NOTE

Preset stations are erased by overwriting them.

Listening to Preset Stations

Operation on the Main Unit

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

Operation on the Main Remote Control Unit

1 Press [A ~ G] to select the memory block.

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

❑ **Default settings**

Auto tuner presets	
A1 ~ A8	87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 ~ B8	522 / 603 / 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.

1 Press [SEARCH].

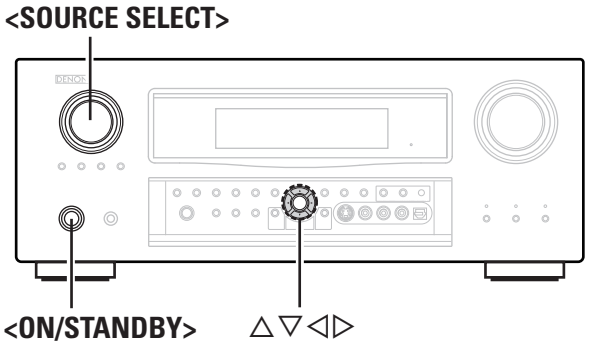
2 Input frequencies by means of [NUMBER (0 ~ 9)].

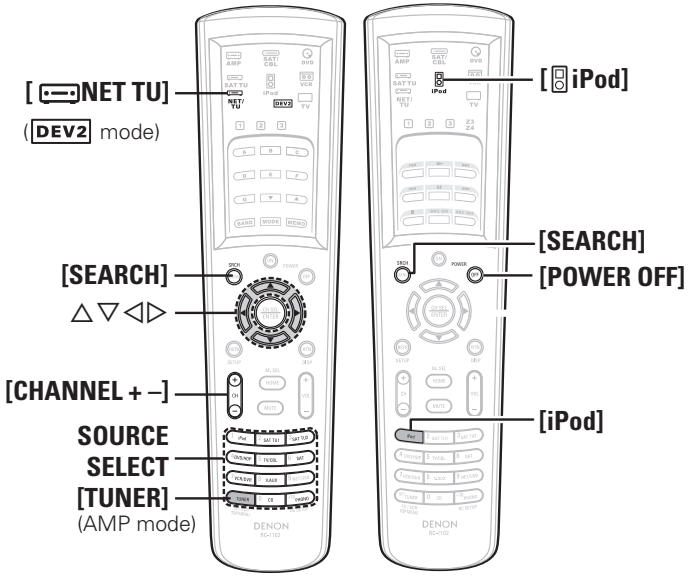
※ If **[◁]** is pressed, the immediately preceding input is cancelled.

3 When setting is completed, press [ENTER].
The preset frequency is tuned in.

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]**





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:

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

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.**
(☞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.**
(☞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.**
(☞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.**
(☞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 ◁ ▷.
※ 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.

Made for iPod

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

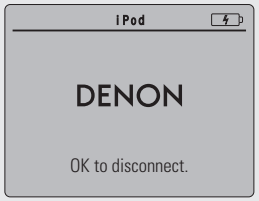
※ The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

Basic Operation

1 **Make the necessary preparations.**
①Set the iPod in the DENON control dock for iPod.
(☞See the control dock for iPod's operating instructions.)
②Assign the control dock for iPod's input.
The input for the control dock for iPod is assigned to VCR by default.

MENU : **"Input Setup"** – **"Assign"** – **"iPod Dock"**
(☞page 37)

2 **Either turn <SOURCE SELECT> or press [iPod] to select the input source assigned in step 1-② above.**



(iPod screen)

※ If the screens above are not displayed, the iPod may not be properly connected. Try connecting again.

3 **To operate using the main remote control unit, set the remote control unit to the iPod mode.**
(☞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.

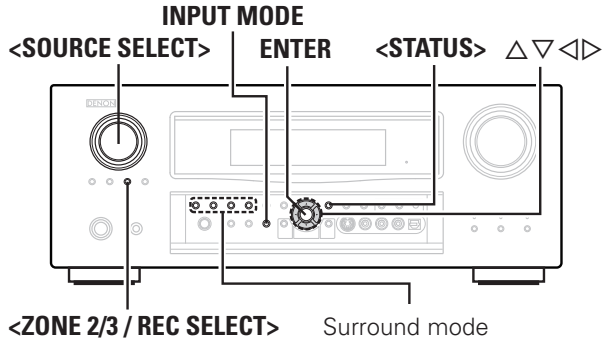
[Selectable mode]		Browse mode	Remote mode
Display location		Main unit display	iPod display
Playable files	Audio file	○	○
	Video file	○ *1	○ *2
Active buttons	Remote control unit (AVR-2809)	○	○
	iPod	×	○

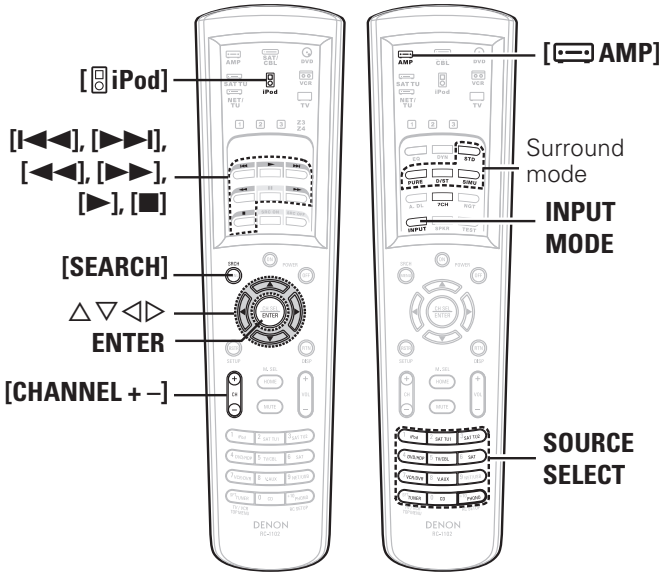
*1 : When using an ASD-3N or ASD-3W control dock for iPod.
*2 : Video may not be output, depending on the combination of ASD-1R and iPod.

- 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" (☞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.

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]**





Listening to Music

1 **Use △▽ to select the menu, then press ENTER or ▷ to select the music file to be played.**

2 **Press ENTER or ▷.**
Playback starts.

❑**Stopping playback temporarily**
During playback, press **ENTER** or **[►]**.
Press again to resume playback.

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

❑**To cue to the beginning of a track**
During playback, either press **[I◄◄]** (to cue to the previous track) or **[►►I]** (to cue to the next track).

❑**To stop**
During playback, either press and hold **ENTER** or press **[■]**.

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

[Selectable items] **All** **One** **OFF**

MENU : **"Input Setup"** – **"iPod"** – **"Repeat"** (☞page 38)

❑**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**

MENU : **"Input Setup"** – **"iPod"** – **"Shuffle"** (☞page 38)

- To check the name of the title, the artist or the album when playing in browse mode, press **<STATUS>**.
- The folder name and the file name can be displayed in browse mode. Only alphanumeric characters and certain symbols can be displayed. Any characters that cannot be displayed are replaced with " . (period)".
- The time (default : 30 sec) for which the on-screen display are displayed can be set at menu "Manual Setup" – "Option Setup" – "On-Screen Display" – "iPod Information" (☞page 32).
  Press △▽◁ ▷ to return to the original screen.

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 △▽ 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

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

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)

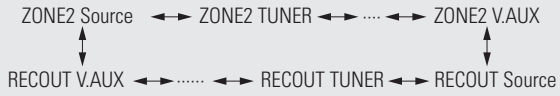
You can listen to one program source while recording a different program source.

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 "RECOUT Source" is displayed.
The "REC" indicator lights.

❑ During ZONE2 / Rec Select



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.

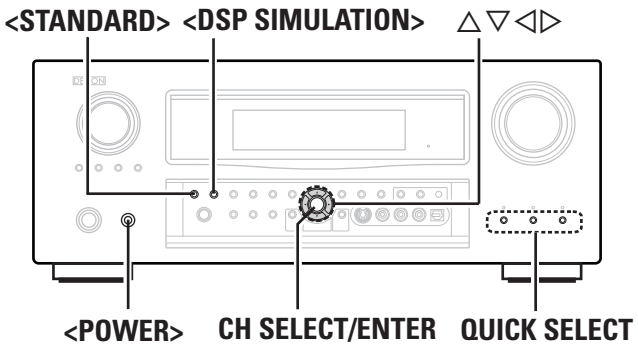
- To cancel, press **<ZONE2/3 / REC SELECT>**, then turn **<SOURCE SELECT>** until "ZONE2 Source" is displayed.
- Make a test recording before starting the actual recording.
- Signals are only output to the analog REC OUT connectors when the digital signals input to the digital input connectors (OPTICAL/COAXIAL) 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.

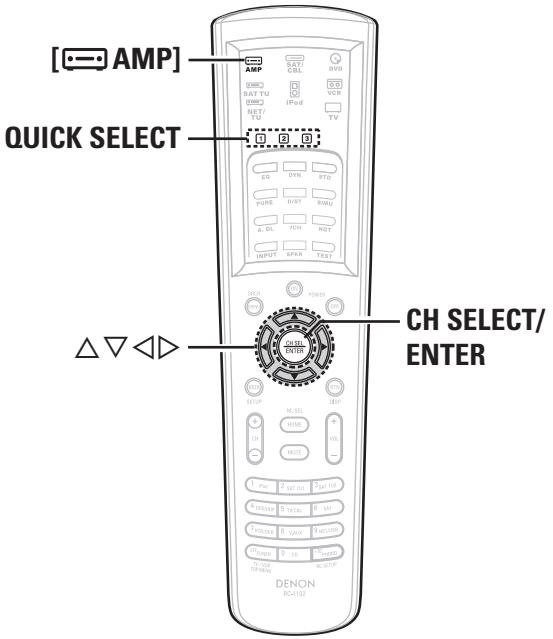
NOTE

- 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.

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]**





Convenient Functions

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.

Operations

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.**

※ Please consult the operating instructions for the connected equipment to check the settings.
※ Steps 1~3 do not have to be repeated once started.
※ Carryout steps 2 and 3 should any of the equipment be plugged out.

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.**

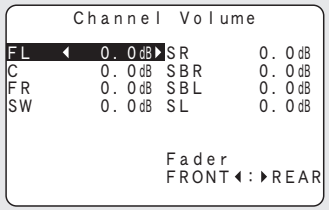
6 **Put the television power on standby and check if the AVR-2809 goes into standby.**

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.**



2 **Use △▽ or CH SELECT/ENTER to select the speaker.**
The speaker that can be set switches each time one of the buttons is pressed.

3 **Use ◁ ▷ to adjust the volume.**

※ In the case of a subwoofer, reducing the volume when it is at "–12 dB" will change the setting to "OFF" (none).

NOTE

When the input source is "iPod", you cannot perform channel level setting.

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 **Press △▽ or CH SELECT/ENTER to select "Fader".**

3 **Use ◁ ▷ to adjust the volume of the speakers.**
(◁: front, ▷: rear)

- The fader function does not affect the subwoofer.
- The fader can be adjusted until the volume of the speaker adjusted to the lowest value is –12 dB.

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]

	Input Source	Volume
Quick Select 1	DVD	–40 dB
Quick Select 2	TV/CBL	–40 dB
Quick Select 3	VCR	–40 dB

- To call out the settings, press **QUICK SELECT** at which the desired settings were stored.
- The Quick Select name can be changed (☞page 33).

NOTE

Input sources stored with the quick select function cannot be selected if they have been deleted at menu "Manual Setup" – "Option Setup" – "Source Delete" (☞page 32). In this case, store them again.

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>.**

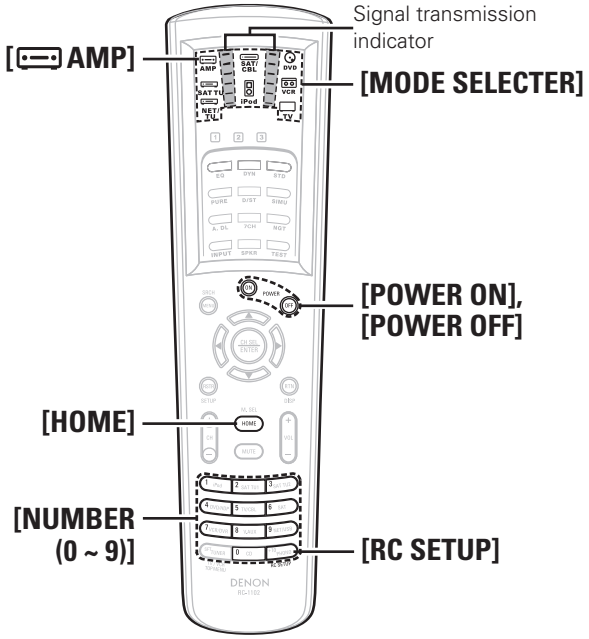
3 **Once the display starts flashing at intervals of about 1 second, release the two buttons.**

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.



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

NOTE

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

Operating DENON Audio Components

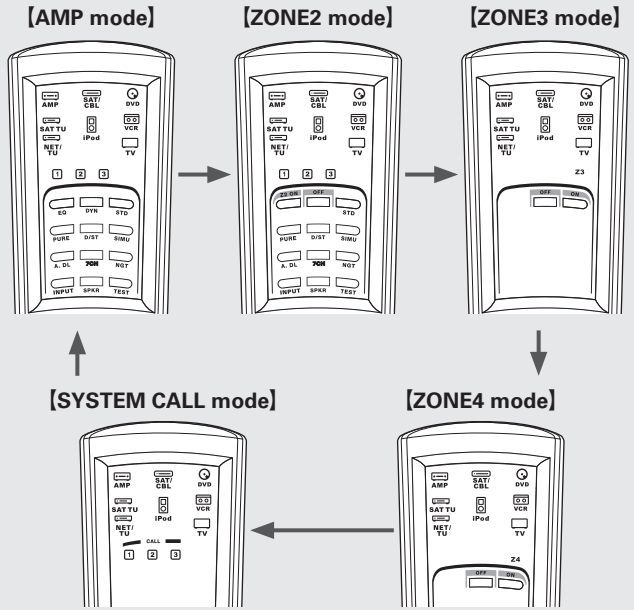
1 Press [MODE SELECTOR] for the component to be operated.

The indicator for the component to be operated flashes.

- AMP: AMP / ZONE2 / ZONE3 / ZONE4 / SYSTEM CALL
- SAT TU: Cannot be used.
- NET/TU: TUNER (FM/AM)
- SAT/CBL: Satellite receiver / Cable TV
- iPod: iPod
- DVD: Blu-ray Disc player / DVD player (Recorder) / CD player (Recorder)
- VCR: VCR / TAPE
- TV: TV

※ The SAT TU (DEV1 and DEV2), NET/TU (DEV1) mode is not used on the AVR-2809, so use the learn function to store the signals (☞page 59).

※ The mode switches each time **[AMP]** is pressed.



※ The AVR-2809 cannot be used in the ZONE4 mode.

2 Operate the component.

※ For details, refer to the component's operating instructions.

- **[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]**.

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 (☞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.

Operating Preset Components

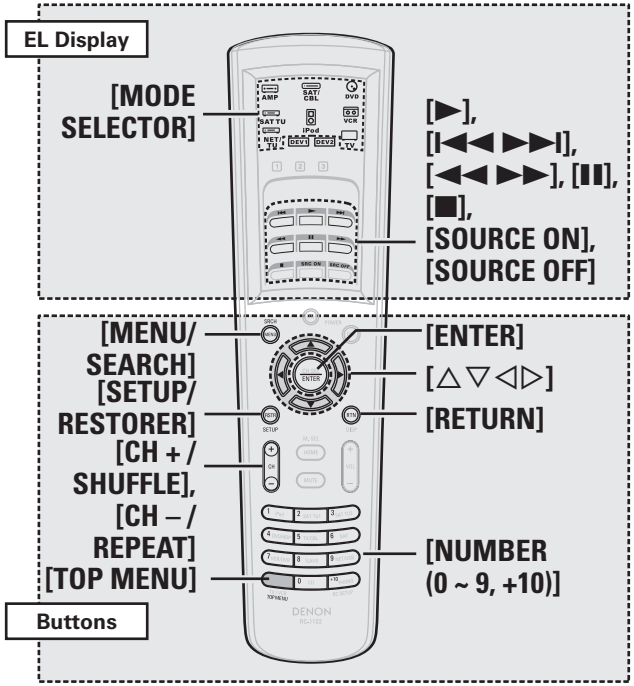
1 Press [MODE SELECTOR] for the component to be operated.

The mode indicator of the device to be operated flashes.

2 Operate the component.

※ For details, refer to the component's operating instructions.

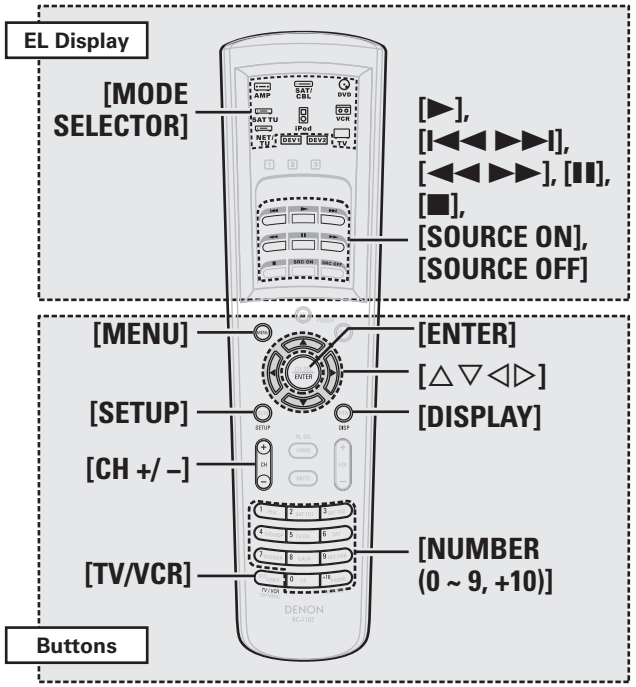
Functions of Buttons by Component

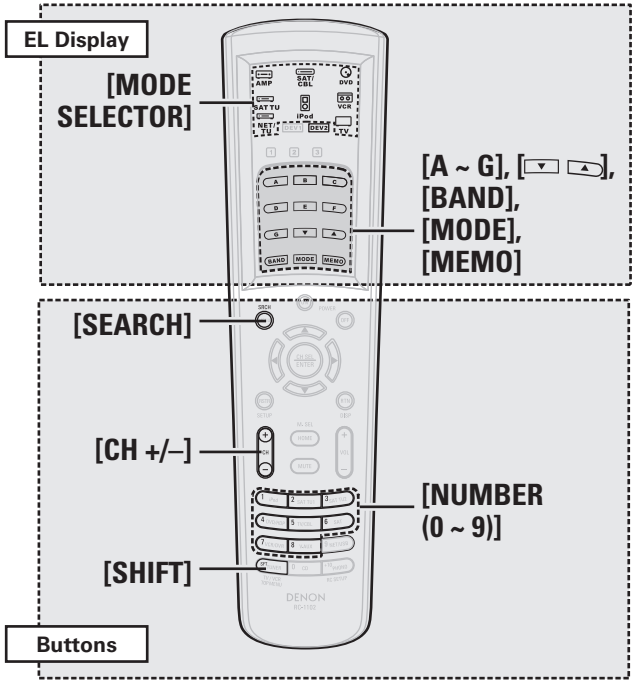


EL Display								
MODE SELECTOR	**DVD**					**VCR**		**iPod**
Device Mode	**DEV1**			**DEV2**		**DEV1**	**DEV2**	**DEV1**
Device operated	**DVD player** (Default setting)	**DVD recorder**	**Blu-ray Disc player**	**CD player** (Default setting)	**CD recorder**	**Video deck**	**TAPE**	**iPod**
▶	Playback	Playback	Playback	Playback	Playback	Playback	Playback	Playback/Pause
I◀◀ ▶▶I	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)
◀◀ ▶▶	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)
▮▮	Pause	Pause	Pause	Pause	Pause	Pause	Pause	–
■	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
SOURCE ON	Power on	Power on	Power on	–	–	Power on	–	–
SOURCE OFF	Power off	Power off	Power off	–	–	Power off	–	–
Buttons								
MENU / SEARCH	Menu/guide	Menu/guide	Popup menu	–	–	Menu/guide	–	Page forward screen / Browse/ Remote mode switching (Press and hold)
△ ▽ ◁ ▷	Cursor	Cursor	Cursor	–	–	Cursor	–	Cursor
ENTER	Enter setting	Enter setting	Enter setting	–	–	Enter setting	–	Enter
SETUP/ RESTORER	Set up	Set up	Set up	–	–	Set up	–	Restorer
RETURN	Return	Return	Return	–	–	Cancel	–	Return
CH +	Random	–	Random	Random	–	Switch channels	–	1-track/album shuffle play
CH –	Repeat	–	Repeat	Repeat	–	Switch channels	–	1-track/All-track repeat play
0 ~ 9, +10	Select track	Select track	Select track	Select track	Select track	–	–	–
Special Remarks	①, ②		③	①		①	①	–

【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 "32258".





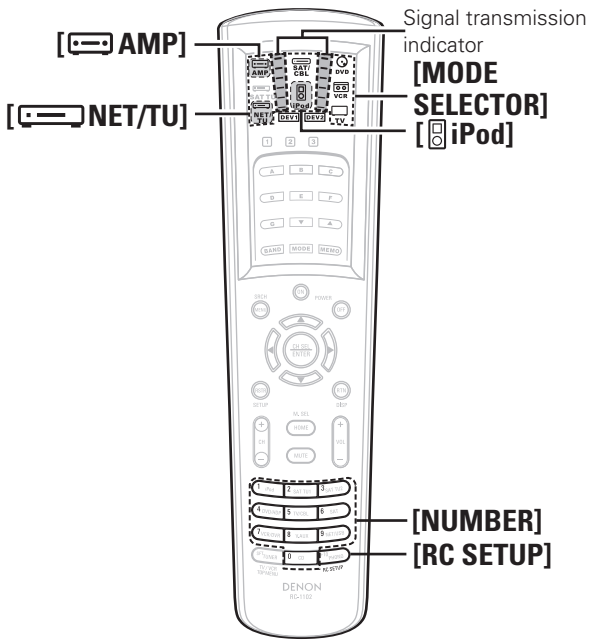
EL Display				
MODE SELECTOR	**TV**		**Satellite Receiver / Cable TV**	
Device Mode	**DEV1**	**DEV2**	**DEV1**	**DEV2**
Device operated	**TV (HITACHI)**	**TV (SONY)**	**SAT**	**SAT**
►	Punch through	Punch through	Punch through	Punch through
I◄◄ ►►I				
◄◄ ►►				
II				
■				
SOURCE ON	Power on	Power on	Power on	Power on
SOURCE OFF	Power off	Power off	Power off	Power off
Buttons				
MENU	Menu/guide	Menu/guide	Menu/guide	Menu/guide
△ ▽ ◁ ▷	Cursor	Cursor	Cursor	Cursor
ENTER	Enter setting	Enter setting	Enter setting	Enter setting
SETUP	Set up	Set up	Set up	Set up
DISPLAY	Display	Display	Display	Display
CH + / –	Switch channels	Switch channels	Switch channels	Switch channels
0 ~ 9, +10	Channel selection	Channel selection	Channel selection	Channel selection
TV/VCR	Switch inputs	Switch inputs	–	–
Special Remarks	①, ③	①, ③	①, ③	①, ③

[Special Remarks]

① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.

③ 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").

EL Display	
MODE SELECTOR	**NET/TU**
Device Mode	**DEV2**
Device operated	**Analog tuner**
A ~ G	Preset memory block selection
▽ △	Tuning + / –
BAND	AM/FM switching
MODE	Switch search modes
MEMO	Preset memory registration
Buttons	
SEARCH	Direct Frequency Tuning
CH + / –	Preset channel selection
0 ~9	Preset channel selection (1 ~ 8) / Direct Frequency Search (0 ~ 9)
SHIFT	Switch memory block



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.

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.**

MODE SELECTOR / Remote ID	AMP (MAIN)	iPod	NET/TU ([DEV2])
1 (Default)	81001	72815	62863
2	82001	72816	62275
3	83001	72817	62276
4	84001	72818	62277

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.

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 transfered to stored in the AVR-2809's main remote control unit.

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

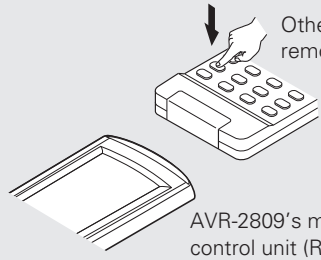
2 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

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

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.



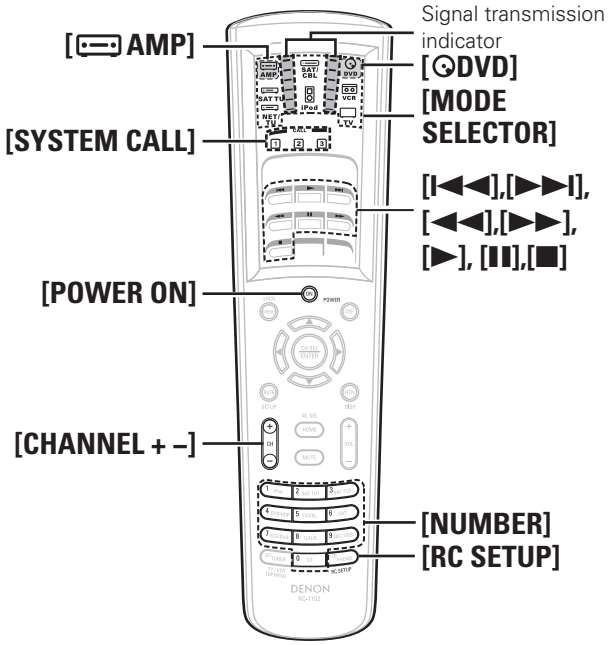
※ If you want to learn other buttons, repeat steps 4 and 5.
※ The mode can be switched by pressing **[MODE SELECTOR]**.
※ The signal transmission indicator lights once for a long time if learning was not possible

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

- 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).

NOTE

- **[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.



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**).

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 **[MODE SELECTOR]** – **[DVD]**.
↓
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.

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.

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 (►, ■, ◄◄, ►►, I◄◄, ►►I 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.

[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.

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

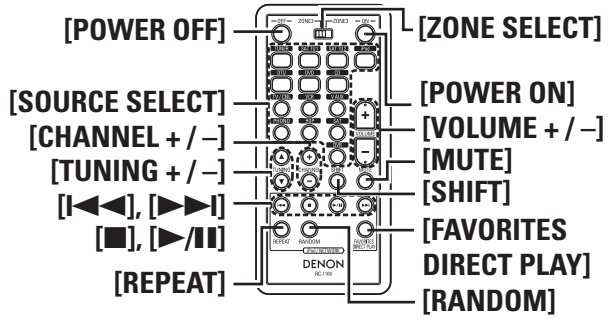
1 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

2 **Press [9], [8] and [1], in that order.**
The signal transmission indicator flashes 4 times.
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.)



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 + / –
TUNING + / –	Tuning + / –
MUTE	Muting
SHIFT	Switching the memory block
I◄◄ ►►I	Auto search (cue)
■	Stop
►/II	Play / Pause
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.

Amp Assign / Multi-zone Connections and Operations

The AVR-2809 is compatible with the following types of playback:

- **Multi-zone playback (ZONE2 & ZONE3)**
- **Bi-amp playback (front speakers)**

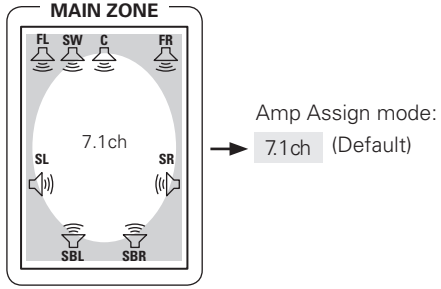
NOTE

- 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)

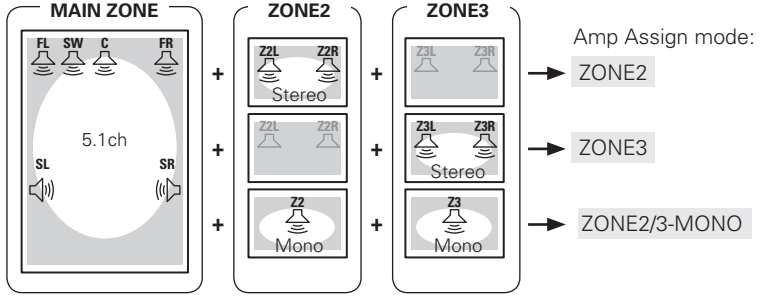
❑ Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal / Amp Assign mode	FRONT		CENTER	SURROUND		SURROUND BACK / AMP ASSIGN	
	R	L		R	L	R	L
7.1ch	FR	FL	C	SR	SL	SBR	SBL

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



"STEREO" or "MONO" depends on the setting at menu "Manual Setup" – "Zone Setup" – "(select the zone)" – "Channel" (☞page 31).

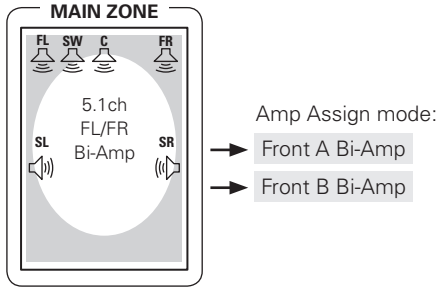
❑ Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal / Amp Assign mode	FRONT		CENTER	SURROUND		SURROUND BACK / AMP ASSIGN	
	R	L		R	L	R	L
ZONE2	FR	FL	C	SR	SL	Z2R	Z2L
ZONE3						Z3R	Z3L
ZONE2/3-MONO						Z3 (MONO)	Z2 (MONO)

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

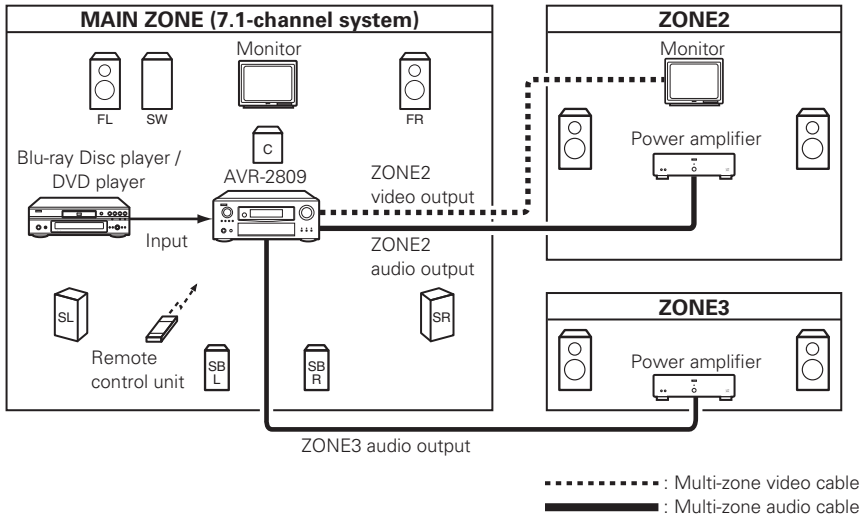
Speaker terminal / Amp Assign mode	FRONT-A		FRONT-B		CENTER	SURROUND		SURROUND BACK / AMP ASSIGN	
	R	L	R	L		R	L	R	L
Front A Bi-Amp	FR-A	FL-A	FR-B	FL-B	C	SR	SL	FR	FL
								FL-A/FR-A Bi-Amp connection	
Front B Bi-Amp								FR	FL
								FL-B/FR-B Bi-Amp connection	

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.

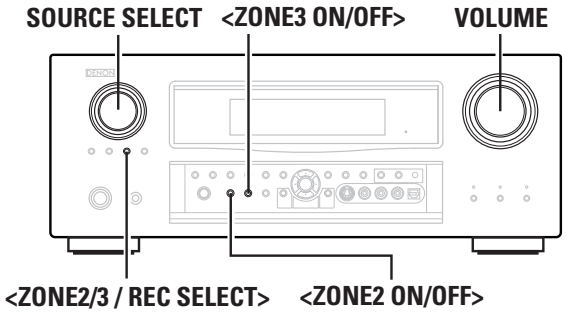
	Connectors for audio output	Audio signals	Connectors for video output
ZONE2	ZONE2 PRE OUT	Stereo	ZONE2 VIDEO OUT
ZONE3	ZONE3 PRE OUT	Stereo	–

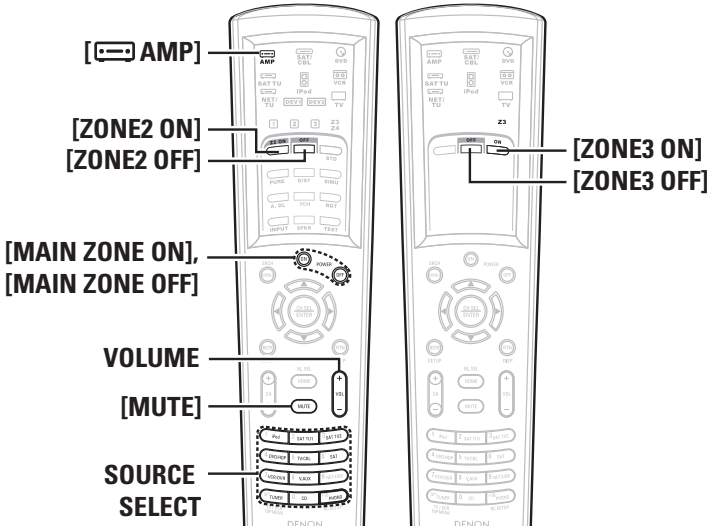


- When only using one speaker for ZONE2 or ZONE3, set to "Mono". In this case, the ZONE2 (ZONE3) monaural output is output from the ZONE2 (ZONE3) pre-out L and R connectors, so connect as desired.
- Separate power amplifiers are needed for ZONE2 and ZONE3.

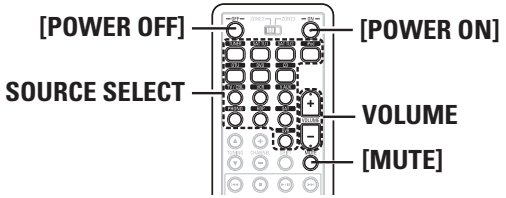
Symbols used to indicate buttons in this manual

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]**





(Main remote control unit)



(Sub remote control unit)

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 (Z2 or Z3) 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]**.

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 adjusted when menu "Manual Setup" – "Zone 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.

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.

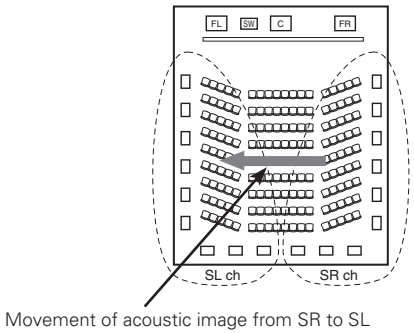
Other Information

About Speaker Installation

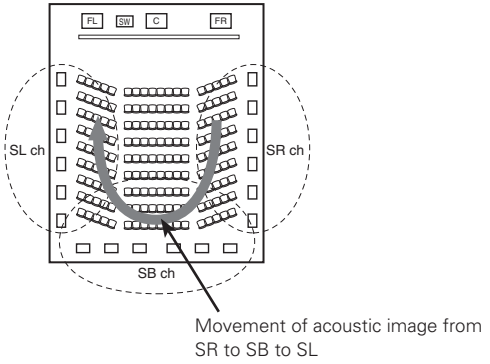
Surround back speakers

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.

Change of positioning and acoustic image with 5.1-channel systems



Change of positioning and acoustic image with 6.1-channel systems



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

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

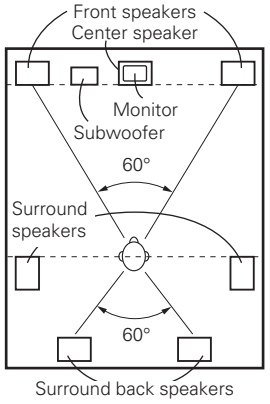
We recommend installing the speakers for the surround "L" and "R" channels a bit forward.

Examples of speaker layouts

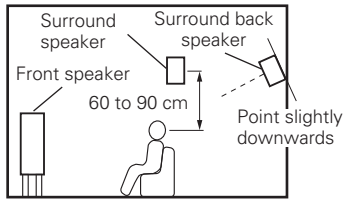
Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

[1] Using surround back speaker(s)

① **When mainly playing movies**
Recommended when your surround speakers are single or 2-way speakers.



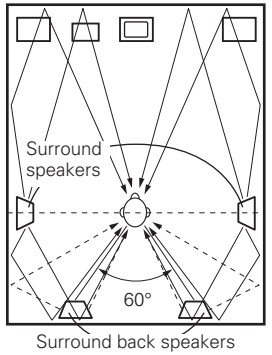
[As seen from above]



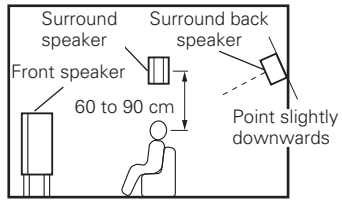
[As seen from the side]

② **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

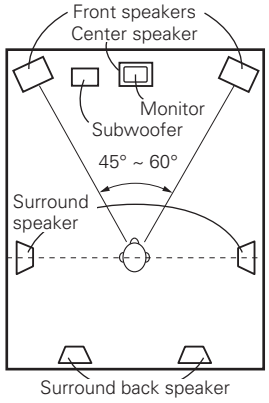


[As seen from above]

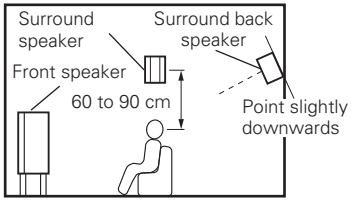


[As seen from the side]

③ **When playing movies and music**

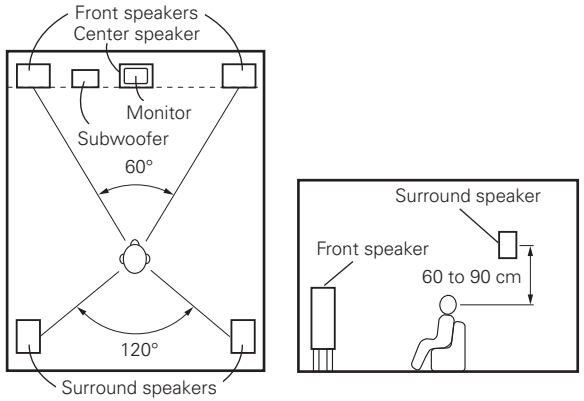


[As seen from above]



[As seen from the side]

[2] When not using surround back speakers



[As seen from above] **[As seen from the side]**

Surround

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 Surround

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.

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

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; 5,956,674; 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.

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.

AUDYSSEY MULTEQ XT AUDYSSEY DYNAMIC VOLUME

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.

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 foe not only front left and right channels but also for the surround left and right, center and subwoofer channels.

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.

LipSync

Because consumer electronics devices are using increasingly complex digital signal processing to enhance the clarity and detail of the content, synchronization of video and audio in user devices has become a greater challenge and could potentially require complex end-user adjustments. HDMI 1.3 incorporates an automatic video/audio synching capability that allows devices to perform this synchronization automatically with total accuracy.

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

Surround Modes and Parameters

Surround mode	Signals and adjustability in the different modes															
	Channel output					Parameter (default values are shown in parentheses)										
	Front L/R	Center	Surround L/R	Surround Back L/R	Subwoofer	D. Comp *1	LFE *2	AFDM *1	SB CH Out	Cinema EQ.	Mode	Room Size	Level	Delay time	Subwoofer	DRC *3
PURE DIRECT, DIRECT	○	×	×	×	◎	○ (OFF)	○ (0dB)	×	×	×	×	×	×	×	○	○ (Auto)
DSD DIRECT	○	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
DSD MULTI DIRECT	○	×	×	×	×	×	○ (0dB)	×	○	×	×	×	×	×	×	×
MULTI CH DIRECT	○	◎	◎	◎	◎	×	○ (0dB)	○ (ON)	○	×	×	×	×	×	×	×
STEREO	○	×	×	×	◎	○ (OFF)	○ (0dB)	×	×	×	×	×	×	×	×	○ (Auto)
EXT. IN	○	◎	◎	◎	◎	×	×	×	×	×	×	×	×	×	×	×
MULTI CH IN	○	◎	◎	◎	◎	×	○ (0dB)	○ (ON)	○	×	×	×	×	×	×	×
DOLBY PRO LOGIC IIx	○	◎	◎	◎	◎	○ (OFF)	×	×	○	○ (NOTE1)	○ (Cinema)	×	×	×	×	○ (Auto)
DOLBY PRO LOGIC II	○	◎	◎	×	◎	○ (OFF)	×	×	○	○ (NOTE2)	○ (Cinema)	×	×	×	×	○ (Auto)
DTS NEO:6	○	◎	◎	◎	◎	○ (OFF)	×	×	○	○ (NOTE1)	○ (Cinema)	×	×	×	×	×
DOLBY DIGITAL	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×	×
DOLBY DIGITAL Plus	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×	×
DOLBY TrueHD	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×	○ (Auto)
DTS SURROUND	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×	×
DTS 96/24	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×	×
DTS-HD	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×	×
5CH/7CH STEREO	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	×	×	×	×	○ (Auto)
WIDE SCREEN	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	○ (OFF)	×	×	○ (ON, 10)	×	×	○ (Auto)
SUPER STADIUM	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	○ (Medium)	○ (10)	×	×	○ (Auto)
ROCK ARENA	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	○ (Medium)	○ (10)	×	×	○ (Auto)
JAZZ CLUB	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	○ (Medium)	○ (10)	×	×	○ (Auto)
CLASSIC CONCERT	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	○ (Medium)	○ (10)	×	×	○ (Auto)
MONO MOVIE	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	○ (Medium)	○ (10)	×	×	○ (Auto)
VIDEO GAME	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	○ (Medium)	○ (10)	×	×	○ (Auto)
MATRIX	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○	×	×	×	×	○ (30 ms)	×	○ (Auto)
VIRTUAL	○	×	×	×	◎	○ (OFF)	○ (0dB)	×	×	×	×	×	×	×	×	○ (Auto)

○ : Signal / Adjustable
× : No signal / Not adjustable
◎ : Turned on or off by speaker configuration setting

○ : Signal / Adjustable
× : No signal / Not adjustable
NOTE1 : This parameter is availabe when the menu “Parameter” – “Surround Parameter” – “Mode” is set to “Cinema” (☞page 38).
NOTE2 : This parameter is availabe when the menu “Parameter” – “Surround Parameter” – “Mode” is set to “Cinema” or “PL” (☞page 38).

NOTE:

*1 : When playing Dolby Digital and DTS signals.
*2 : When playing Dolby Digital, DTS and Linear PCM (multi ch).
*3 : When playing Dolby TrueHD signal.

Surround mode	Signals and adjustability in the different modes										
	Parameter (default values are shown in parentheses)										
	PRO LOGIC Ⅱ/Ⅱx MUSIC mode only			NEO:6 MUSIC mode only	EXT. IN only	Tone (NOTE6)	Night Mode (NOTE6)	MultEQ XT	Dynamic EQ (NOTE7)	Dynamic Volume (NOTE8)	RESTORER
	Panorama	Dimension	C. Width	Center Image	SW ATT						
PURE DIRECT, DIRECT	×	×	×	×	×	×	○ (OFF)	○ (NOTE5)	○ (NOTE5)	○ (NOTE5)	○
DSD DIRECT	×	×	×	×	×	×	×	○ (NOTE5)	○ (NOTE5)	○ (NOTE5)	×
DSD MULTI DIRECT	×	×	×	×	×	×	×	○ (NOTE5)	○ (NOTE5)	○ (NOTE5)	×
MULTI CH DIRECT	×	×	×	×	×	×	○ (OFF)	○ (NOTE5)	○ (NOTE5)	○ (NOTE5)	×
STEREO	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
EXT. IN	×	×	×	×	○	×	×	×	×	×	×
MULTI CH IN	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	×
DOLBY PRO LOGIC Ⅱx	○ (OFF)	○ (3)	○ (3)	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
DOLBY PRO LOGIC Ⅱ	○ (OFF)	○ (3)	○ (3)	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
DTS NEO:6	×	×	×	○ (0.3)	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
DOLBY DIGITAL	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	×
DOLBY DIGITAL Plus	×	×	×	×	×	○ (0dB)	×	○ (OFF)	○ (OFF)	○ (OFF)	×
DOLBY TrueHD	×	×	×	×	×	○ (0dB)	×	○ (OFF)	○ (OFF)	○ (OFF)	×
DTS SURROUND	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	×
DTS-96/24	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	×
DTS-HD	×	×	×	×	×	○ (0dB)	×	○ (OFF)	○ (OFF)	○ (OFF)	×
5CH/7CH STEREO	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
WIDE SCREEN	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
SUPER STADIUM	×	×	×	×	×	○ (NOTE3)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
ROCK ARENA	×	×	×	×	×	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
JAZZ CLUB	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
CLASSIC CONCERT	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
MONO MOVIE	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
VIDEO GAME	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
MATRIX	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○
VIRTUAL	×	×	×	×	×	○ (0dB)	○ (OFF)	○ (OFF)	○ (OFF)	○ (OFF)	○

○ : Adjustable
× : 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 (☞page 30).
NOTE6 : Cannot be set when the "Dynamic EQ" setting is "ON" (☞page 44).
NOTE7 : Cannot be set when the "MultEQ XT" setting is "OFF" (☞page 43).
NOTE8 : Cannot be set when the "Dynamic EQ" setting is "OFF" (☞page 44).

Differences in Surround Mode Names Depending on the Input Signals

Button / Surround mode	Note	Input signals																	
		ANALOG	PCM		DTS-HD		DTS				DOLBY		DOLBY DIGITAL					SACD	
			Linear PCM (multi ch)	Linear PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DSD (multi ch)	DSD (2ch)
STANDARD																			
DTS SURROUND																			
DTS-HD MSTR		×	×	×	●	×	×	×	×	×	×	×	×	×	×	×	×	×	×
DTS-HD HI RES		×	×	×	×	●	×	×	×	×	×	×	×	×	×	×	×	×	×
DTS ES DSCRT6.1	*1 *3	×	×	×	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1	*1 *3	×	×	×	×	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×
DTS SURROUND		×	×	×	×	×	○	○	●	×	×	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×	×	×	×	●	×	×	×	×	×	×	×	×	×
DTS (–HD) + PLIIx CINEMA	*2 *3	×	×	×	○	○	○	○	○	○	×	×	×	×	×	×	×	×	×
DTS (–HD) + PLIIx MUSIC	*1 *3	×	×	×	○	○	○	○	○	○	×	×	×	×	×	×	×	×	×
DTS (–HD) + NEO:6	*1 *3	×	×	×	○	○	×	○	○	○	×	×	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○
DTS NEO:6 MUSIC		○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○
DOLBY SURROUND																			
DOLBY TrueHD		×	×	×	×	×	×	×	×	×	●	×	×	×	×	×	×	×	×
DOLBY DIGITAL+		×	×	×	×	×	×	×	×	×	×	●	×	×	×	×	×	×	×
DOLBY DIGITAL EX	*1 *3	×	×	×	×	×	×	×	×	×	×	×	○	○	○	○	×	×	×
DOLBY (D+) (HD) +EX	*1 *3	×	×	×	×	×	×	×	×	×	○	○	×	×	×	×	×	×	×
DOLBY DIGITAL		×	×	×	×	×	×	×	×	×	×	×	○	●	●	●	×	×	×
DOLBY (D) (D+) (HD) +PLIIx CINEMA	*2 *3	×	×	×	×	×	×	×	×	×	○	○	● ◎	○	○	○	×	×	×
DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1 *3	×	×	×	×	×	×	×	×	×	○	○	○	○	○	○	×	×	×
DOLBY PRO LOGIC IIx CINEMA	*3	○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	●	×	○
DOLBY PRO LOGIC IIx MUSIC	*3	○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○
DOLBY PRO LOGIC IIx GAME	*3	○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○
DOLBY PRO LOGIC II CINEMA		○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○
DOLBY PRO LOGIC II MUSIC		○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○
DOLBY PRO LOGIC II GAME		○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○
DOLBY PRO LOGIC		○	×	○	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○

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 "1spkr" or "None".
*3 : Cannot be set when "Amp Assign" is set to "ZONE2".

● : Mode selectable in initial status
◎ : Mode fixed when "AFDM" is "ON"
○ : Selectable mode
× : Non-selectable mode

Button / Surround mode	Note	Input signals: ANALOG	PCM: Linear PCM (multi ch)	PCM: Linear PCM (2ch)	DTS-HD: DTS-HD Master Audio	DTS-HD: DTS-HD High Resolution Audio	DTS: DTS ES DSCRT (With Flag)	DTS: DTS ES MTRX (With Flag)	DTS: DTS (5.1ch)	DTS: DTS 96/24	DOLBY: DOLBY TrueHD	DOLBY: DOLBY DIGITAL Plus	DOLBY DIGITAL: DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL: DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL: DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL: DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL: DOLBY DIGITAL (2ch)	SACD: DSD (multi ch)	SACD: DSD (2ch)
STANDARD																			
MULTI CH IN																			
MULTI CH IN		×	●	×	×	×	×	×	×	×	×	×	×	×	×	×	×	●	×
MULTI IN + PLIIx CINEMA	*2 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI IN + PLIIx MUSIC	*1 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI IN + Dolby EX	*1 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH IN 7.1	*3	×	● ◎ (7.1)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
DIRECT																			
DIRECT		○	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○
DSD DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH DIRECT		×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M DIRECT + PLIIx CINEMA	*2 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M DIRECT + PLIIx MUSIC	*1 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M DIRECT + Dolby EX	*1 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M DIRECT 7.1	*3	×	○ (7.1)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PURE DIRECT																			
PURE DIRECT		○	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○
DSD PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI PURE		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH PURE DIRECT		×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M PURE D + PLIIx CINEMA	*2 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M PURE D + PLIIx MUSIC	*1 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M PURE D + Dolby EX	*1 *3	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
M CH PURE DIRECT 7.1	*3	×	○ (7.1)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
DSP SIMULATION																			
5CH/7CH STEREO	*4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
WIDE SCREEN		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
SUPER STADIUM		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ROCK ARENA		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
JAZZ CLUB		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CLASSIC CONCERT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MONO MOVIE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIDEO GAME		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MATRIX		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO																			
STEREO		●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●

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 "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.

● : Mode selectable in initial status
◎ : Mode fixed when "AFDM" is "ON"
○ : Selectable mode
× : Non-selectable mode

Relationship Between Video Signals and Monitor Output

Video convert	Input signals				Monitor output			
	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
ON	×	×	×	×	×	×	×	×
	×	×	×	○	VIDEO	VIDEO	VIDEO	VIDEO
	×	×	○	×	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO
	×	×	○	○	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO
	×	○ (1080p)	×	×	×	COMPONENT	×	×
	×	○ (480p ~ 720p)	×	×	COMPONENT	COMPONENT	×	×
	×	○ (480i / 576i)	×	×	COMPONENT	COMPONENT	COMPONENT	COMPONENT
	×	○ (1080p)	×	○	VIDEO	COMPONENT*1	VIDEO	VIDEO
	×	○ (480p ~ 720p)	×	○	COMPONENT*1	COMPONENT*1	×	VIDEO
	×	○ (480i / 576i)	×	○	COMPONENT*1	COMPONENT*1	COMPONENT	VIDEO
	×	○ (1080p)	○	×	S-VIDEO	COMPONENT*2	S-VIDEO	S-VIDEO
	×	○ (480p ~ 720p)	○	×	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO
	×	○ (480i / 576i)	○	×	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO
	×	○ (1080p)	○	○	S-VIDEO	COMPONENT*2	S-VIDEO	S-VIDEO
	×	○ (480p ~ 720p)	○	○	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO
	×	○ (480i / 576i)	○	○	COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO
	○	×	×	×	HDMI	×	×	×
	○	×	×	○	HDMI*1	VIDEO	VIDEO	VIDEO
	○	×	○	×	HDMI*2	S-VIDEO	S-VIDEO	S-VIDEO
	○	×	○	○	HDMI*2	S-VIDEO	S-VIDEO	S-VIDEO
	○	○ (Other than 480i / 576i)	×	×	HDMI	COMPONENT	×	×
	○	○ (480i / 576i)	×	×	HDMI	COMPONENT	COMPONENT	COMPONENT
	○	○ (1080p)	×	○	HDMI*1	COMPONENT*1	VIDEO	VIDEO
	○	○ (480p ~ 720p)	×	○	HDMI*1	COMPONENT*1	×	VIDEO
	○	○ (480i / 576i)	×	○	HDMI*1	COMPONENT*1	COMPONENT	VIDEO
	○	○ (Other than 480i / 576i)	○	×	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO
	○	○ (480i / 576i)	○	×	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO
	○	○ (Other than 480i / 576i)	○	○	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO
	○	○ (480i / 576i)	○	○	HDMI*2	COMPONENT*2	S-VIDEO	S-VIDEO

○ : Signal input
× : No signal
480p ~ 720p: 480p / 576p / 1080i / 720p

× : Not output
*1 : On-screen display superimposed on video signal and output.
*2 : On-screen display superimposed on S-Video signal and output.

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".

Video convert	S-VIDEO MONITOR OUT	Input signals				Monitor output			
		HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
OFF	—	×	×	×	×	×	×	×	×
	—	×	×	×	○	×	×	×	VIDEO
	—	×	×	○	×	×	×	S-VIDEO	×
	Used	×	×	○	○	×	×	S-VIDEO	VIDEO*2
	Not used	×	×	○	○	×	×	—	VIDEO
	—	×	○	×	×	×	COMPONENT	×	×
	—	×	○	×	○	×	COMPONENT*1	×	VIDEO
	—	×	○	○	×	×	COMPONENT*2	S-VIDEO	×
	Used	×	○	○	○	×	COMPONENT*2	S-VIDEO	VIDEO*2
	Not used	×	○	○	○	×	COMPONENT*1	—	VIDEO
	—	○	×	×	×	HDMI	×	×	×
	—	○	×	×	○	HDMI	×	×	VIDEO
	—	○	×	○	×	HDMI	×	S-VIDEO	×
	Used	○	×	○	○	HDMI	×	S-VIDEO	VIDEO*2
	Not used	○	×	○	○	HDMI	×	—	VIDEO
	—	○	○	×	×	HDMI	COMPONENT	×	×
	—	○	○	×	○	HDMI	COMPONENT*1	×	VIDEO
	—	○	○	○	×	HDMI	COMPONENT*2	S-VIDEO	×
	Used	○	○	○	○	HDMI	COMPONENT*2	S-VIDEO	VIDEO*2
	Not used	○	○	○	○	HDMI	COMPONENT*1	—	VIDEO

○ : Signal input
× : No signal

× : Not output
*1 : On-screen display superimposed on video signal and output.
*2 : On-screen display superimposed on S-Video signal and output.

COMPONENT or HDMI:
On-screen display only displayed for the **MENU** button.

- The MAIN ZONE video conversion function is compatible with the following format: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.
- 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 up-converted to HDMI is output according to the setting made at "Resolution" under "Input Setup" – "Video" – "Resolution" (☞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】

Symptom	Cause	Countermeasure	Page
Set does not operate properly.	• External noise or interference is causing the set to malfunction.	• Reset the microprocessor.	55
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	• Check that the power plugs are securely inserted into the AVR-2809's AC inlet and the wall power outlet.	19
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty.	• Check the connections.	10
	• Device you want to play and set input source do not match.	• Select an appropriate input source.	48
	• Master volume is turned too low.	• Adjust the master volume to an appropriate level.	48
	• Mute mode is set.	• Cancel the mute mode.	48
	• Headphones are connected.	• Disconnect the headphones.	48
	• No digital signals are being input.	• Select an input source for which the digital input setting has been made.	37
	• The connectors to which the digital inputs are assigned and the settable input modes do not match.	• Set the input mode.	36
Display is off.	• The "Dimmer" setting is set to "OFF".	• Set to something other than "OFF".	33
	• The PURE DIRECT mode is set.	• Set a surround mode other than the PURE DIRECT mode.	40
"DOLBY DIGITAL" indicator does not appear on display.	• Blu-ray Disc player / DVD player's digital audio output setting is not proper.	• 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.	–
Power switches off suddenly while you are using the AVR-2809, the power indicator will flash in red at intervals of approximately 2 seconds.	• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.	• 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.	10 –
Power switches off suddenly while you are using the AVR-2809, the power indicator will flash red at intervals of approximately 0.5 seconds.	• Use speakers having impedance less than that specified. • If speaker cable core wires touch each other or the core wires become disconnected from their terminals, the protection circuit will be activated in the event of core wires coming into contact with the AVR-2809 rear panel.	• 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.	10 10
Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.	• The AVR-2809 amplifier circuit has failed.	• Switch off the power and please contact the DENON service adviser.	–

【Remote Control Unit】

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	• Batteries are worn.	• Replace with new batteries.	3
	• You are operating outside of the specified range.	• Operate within the specified range.	4
	• Obstacle between main unit and remote control unit.	• Remove the obstacle.	4
	• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.	• Insert the batteries in the proper direction, following the polarity marks in the battery compartment.	3
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).	• Move the set to a place in which the remote control sensor will not be exposed to strong light.	4
	• The remote ID of the main unit and remote control unit do not match.	• Set the same remote IDs for the main unit and remote control unit.	33
	• Settings do not match the main remote control unit's **MODE SELECTOR** buttons.	• Match the settings to the main remote control unit's **MODE SELECTOR** buttons.	56

【Audio】

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
	• Surround back speaker setting is set to "None".	• Set to something other than "None".	26
	• The "Parameter" – "Surround Parameter" – "SB CH Out" settings are "OFF".	• Please set "Parameter" – "Surround Parameter" – "SB CH Out" to settings other than "OFF".	42, 43
	• Surround mode not set to a mode for 6.1- or 7.1-channel playback.	• Select a surround playback mode.	39
No sound is produced from subwoofer.	• Subwoofer's power not turned on.	• Turn on the subwoofer's power.	–
	• The "Subwoofer" setting at "Speaker Configuration" is set to "No".	• Set to "Yes".	26
	• The subwoofer is not properly connected.	• Check the connections.	10
	• The subwoofer's volume is turned off.	• Adjust the subwoofer's volume to an appropriate level.	55
No test tones are produced when main remote control unit's **TEST** button is pressed.	• Surround mode not set to "STANDARD" (Dolby/DTS Surround).	• Set to the "STANDARD" (Dolby/DTS Surround) mode.	39
DTS sound is not output.	• Blu-ray Disc player / DVD player's audio output setting is not set to bitstream.	• Set the Blu-ray Disc player / DVD player. For details, refer to the Blu-ray Disc player / DVD player's operating instructions.	–
	• Blu-ray Disc player / DVD player is not compatible with DTS sound playback.	• Use a DTS-compatible player.	–
	• The AVR-2809's "Decode Mode" setting is set to "PCM".	• Set to the "Auto" or "DTS" mode.	36
HDMI audio signals are not output from speakers.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "TV".	• Set to "AMP".	28
No sound is output from the monitor connected with HDMI connections.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "AMP".	• Set to "TV".	28
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.	• HDMI is not connected.	• Connect the HDMI.	11, 12
	• 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.	–
	• Blu-ray Disc player is not compatible with DTS sound playback.	• Use a DTS-compatible player.	–

【Video】

Symptom	Cause	Countermeasure	Page
No picture appears.	• The connections between the AVR-2809 and monitor are faulty.	• Check the connections.	11 ~ 16, 18
	• The monitor's input setting is wrong.	• Set properly.	–
	• PURE DIRECT mode is set.	• Cancel the PURE DIRECT mode.	40
	• The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.	• High definition (1080i/720p) and progressive (480p/576p) video signals are not down-converted. Set the player to interlace (480i/576i) signals.	–
Picture cannot be recorded.	• Input source does not match recorder's video connection connector (video or S-Video).	• The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.	15
DVDs cannot be copied on a VCR.	–	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	–
On-screen display is not shown.		• When viewing HDMI or component video signals via the AVR-2809, the on-screen display appears when the **MENU** button.	9
		• 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.	9
	• The operation content display is "OFF".	• Set "Manual Setup" – "Option Setup" – "On-Screen Display" – "Text" to "ON".	32
	• The main volume display is "OFF".	• Set "Manual Setup" – "Option Setup" – "On-Screen Display" – "Master Volume" to "ON".	32
	• The display during tuner operation is "OFF".	• Set when "Manual Setup" – "On-Screen Display" – "Tuner Information" is not "OFF".	32
	• The display during iPod operation is "OFF".	• Set when "Manual Setup" – "On-Screen Display" – " iPod Information" is not "OFF".	32

【HDMI】

Symptom	Cause	Countermeasure	Page
HDMI audio signals are not output from speakers.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "TV".	• Set to "Amp".	28
No picture appears with HDMI connections.	• The connections to the HDMI connectors are faulty.	• Check the connections.	11
	• HDMI input setting is improper.	• Check the HDMI input setting.	37
	• The monitor is not compatible with copyright protection (HDCP).	• Connect a monitor that is compatible with copyright protection (HDCP).	11
	• The HDMI format of the player and monitor do not match.	• Match the HDMI format of the player and monitor.	11
No sound is output from the monitor connected with HDMI connections.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "Amp".	• Set to "TV".	28
When performing the following operations on a connected device, AVR-2809 has the same operations. · Power ON/OFF · Switching audio output devices · Adjust volume · Switch input source	• HDMI's CEC function is operating.	• Set "Manual Setup" – "HDMI Setup" – "HDMI Control" to "OFF". When you only want to operate the power on/off each device, set "Power Off Control" to "OFF".	28

【iPod】

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to "iPod Dock" is not selected.	• Switch to the input source assigned at "iPod Dock".	37
	• Cable is not properly connected.	• Reconnect.	13
	• Control dock for iPod's AC adapter is not connected to power outlet.	• Plug the control dock for iPod's AC adapter into a power outlet.	–

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.)
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.)
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.)
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.)
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: 200 mV / 47 kΩ/kohms
Frequency response: 10 Hz ~ 100 kHz — +1, –3 dB (DIRECT mode)
S/N: 102 dB (IHF-A weighted, DIRECT mode)
Distortion: 0.005 % (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: Format — Digital audio interface

- **Phono 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)

❑ 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
P_B / C_B signal — 0.7 Vp-p, 75 Ω/ohms
P_R / C_R signal — 0.7 Vp-p, 75 Ω/ohms
Frequency response: 5 Hz ~ 100 MHz — +0, –3 dB (when video convert set to "OFF")

❑ Tuner section

	[FM]	[AM]
	(note: µV at 75 Ω/ohms, 0 dBf = 1 x 10^{-15} W)	
Receiving Range:	87.5 MHz ~ 108.0 MHz	522 kHz ~ 1611 kHz
Usable Sensitivity:	1.0 µV (11.2 dBf)	18 µV
50 dB Quieting Sensitivity:	MONO 1.6 µV (15.3 dBf)	
	STEREO 23 µV (38.5 dBf)	
S/N (IHF-A):	MONO 77 dB	
	STEREO 72 dB	
Total harmonic Distortion (at 1 kHz):	MONO 0.15 %	
	STEREO 0.3 %	

❑ General

Power supply: AC 230 V, 50 Hz
Power consumption: 500 W
0.1 W (Standby)
Maximum external dimensions: 434 (W) x 171 (H) x 414 (D) mm
Weight: 12.8 kg

❑ 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

	Device type	Leading Digit
D	Denon	81001 (ID1), 82001 (ID2), 83001 (ID3), 84001 (ID4)

Denon Anelog Tuner

D	Denon	62863 (ID1), 62275 (ID2), 62276 (ID3), 62277 (ID4)

Denon iPod

D	Denon	72815 (ID1), 72816 (ID2), 72817 (ID3), 72818 (ID4)

Cable Set Top Box ※1

A	A-Mark	00008, 00144
	ABC	00003, 00008, 00237
	Accuphase	00003
	Acorn	00237
	Action	00237
	Active	00237
	Aichi Denshi	01512
	Americast	00899
	Amstrad	01222
	Archer	00237
	Austar	00276
B	BCC	00276
	Bell South	00899
	Bestlink	00303
	Birmingham Cable Communications	00276
	British Telecom	00003
C	Cable & Wireless	01068
	Century	00008
	Coship	01462
D	Daehan	00778
	Daeryung	00008, 01877, 00877, 00477
	Digeo	01187
	Director	00476
	DX Antenna	01500
E	Emerson	00303
	Encon	00008
F	Fosgate	00276
	Foxtel	01222
	France Telecom	00817
	Freebox	01482
	Fujitsu	01497
G	Galaxi	00008
	GE	00144, 00237
	Gehua	00476
	General Instrument	00003, 00276, 00476
	Gibralter	00003
	GNI	01466
	GoldStar	00144
H	Hitachi	00003, 00008
	Hongtian Jiangsu	01462
	Hwalin	00303
I	Insight	00476
J	Jerrold	00003, 00276, 00476
	Jiuzhou	01445
K	Kabelvision	00003
	KNC	00008
L	LG	00144
M	Macab	00817
	Maspro	01510
	Matav	01082
	Melita	00003
	Memorex	00000
	Mitsubishi	00003
	Motorola	00276, 00476, 01187, 01376
	MS	00303
N	NEC	01496
	Noos	00817
	Nova Vision	00008
	Novaplex	00008
	NTL	00003, 00276, 01060, 01068
O	Oak	00303
	Ono	01068
	Optus	00276, 01060
P	Pace	00008, 00237, 00877, 01060, 01068, 01577, 01877
	Panasonic	00000, 00008, 00144, 01488
	Paragon	00000, 00008, 00525
	Penney	00000
	Philips	00317, 00817, 01305
	Pioneer	00144, 00533, 00877, 01500, 01877
	Pulsar	00000
	PVP Stereo Visual Matrix	00003
Q	Quasar	00000
R	RadioShack	00303
	Regal	00276
	Runco	00000
S	Sagem	00817
	Salora	00000
	Samsung	00000, 00003, 00144, 00778, 00840, 01060, 01666, 02015
	Scientific Atlanta	00000, 00003, 00008, 00237, 00477, 00877, 01510, 01877
	Skyworth	01464
	Sony	01006, 01460
	Sprucer	00144
	Starcom	00003
	StarHub	00276
	Sumitomo	01500, 01504
	Supercable	00276
T	Taihan	00778
	TCL	01445
	Telewest	01068
	Time Warner	01877
	TongKook	00840
	Torx	00003
	Toshiba	00000, 01509
	Trans PX	00276, 00303
	TS	00003, 00303
U	United Cable	00003, 00276
	US Electronics	00003, 00008, 00276
V	Videoway	00000
	Visiopass	00817
Z	Zenith	00000, 00525, 00899

Cable/PVR Combination ※1

A	Americast	00899
D	Digeo	01187
F	Freebox	01482
M	Motorola	01187, 01376
P	Pace	00237, 01877
	Pioneer	00877, 01877
S	Scientific Atlanta	00877, 01877
	Sony	01006
	Supercable	00276
T	Time Warner	01877
Z	Zenith	00899

CD Player ※4

A	Acoustic Research	40420
	Advantage	40032
	Aiwa	40157
	Arcam	40157
	Audio Research	40157
	Audiolab	40157
	Audiomeca	40157
	Audioton	40157
	AVI	40157
B	Balanced Audio Technology	40157
	Burmester	40420
	Bush	40388
C	Cairn	40157
	California Audio Labs	40029, 40303
	Cambridge	40157
	Cambridge Audio	40157
	Cambridge Soundworks	40157
	Carver	40157, 40179
	CDC	40420
	CEC	40420
	Copland	40393
	Curtis Mathes	40032
	Cyrus	40157
D	Denon	40003, 40766, 40873, **[42867]***, 42868
	DKK	40000
	DMX Electronics	40157
	Dual	40003
	Dynaco	40157
	Dynamic Bass	40179
F	Fisher	40000, 40179
G	Garrard	40393, 40420
	Genexxa	40000, 40032, 40037, 40179
	Goldmund	40157
	Grundig	40157
H	Hafler	40173
	Harman/Kardon	40100, 40157, 40173
	Hitachi	40032
I	Inkel	40157
	Integra	40101
J	Jerrold	40003
	JVC	40032, 40072
K	Kenwood	40000, 40028, 40029, 40036, 40037, 40157, 40190, 40681
	KLH	41318
	Krell	40157
L	Linn	40157
	Loewe	40157
	Luxman	40393
	LXI	40179
M	Magnavox	40157
	Marantz	40029, 40157
	Matsui	40157
	MCS	40029
	Memorex	40000, 40032, 40179, 40420, 40468
	Meridian	40157
	Micromega	40157
	Miro	40000
	Mission	40157
	Modulaire	40000, 40032, 40087, 40179, 40420, 40468
	MTC	40420
	Musical Fidelity	40393
	Myryad	40157
N	NAD	40000, 40721
	Naim	40157
	NSM	40157
O	Onkyo	40101, 40868
	Optimus	40000, 40032, 40037, 40087, 40179, 40393, 40420, 40468
	Orion	40393
P	Panasonic	40029, 40303, 40388, 40752
	Parasound	40420
	Penney	40029
	Philips	40157
	Pioneer	40032, 40101, 40468
	Polk Audio	40157
	Proceed	40420
	Proton	40157
Q	QED	40157
	Quad	40157
	Quasar	40029
R	Radiola	40157
	RadioShack	40000, 40032, 40179, 40420, 40468
	RCA	40032, 40053, 40179, 40420, 40468
	Realistic	40000, 40032, 40087, 40179, 40420, 40468
	Restek	40157
	Revox	40157
	Roksan	40420
	Rotel	40157, 40420
	Royal	40420
S	SAE	40157
	Saisho	40000
	Sansui	40000, 40157
	Sanyo	40000, 40087, 40179
	SAST	40157
	Sears	40179
	Sharp	40037
	Siemens	40157
	Silsonic	40036
	Simaudio	40157
	Sonic Frontiers	40157
	Sony	40000, 40100, 40185, 40490, 41364
	Sugden	40157
	Sylvania	40157
T	TAG McLaren	40157
	Tandy	40032
	Tascam	40393, 40420
	Teac	40390, 40420, 40490
	Technics	40029, 40303
	Techwood	40303

	Thomson	40053
	Thorens	40157
	Thule Audio	40157
	Tokai	40420
U	Universum	40053, 40157
V	Victor	40072
W	Wadia	40393
	Wards	40000, 40032, 40053, 40087, 40157, 40179
Y	Yamaha	40032, 40036, 40490, 40868
	Yorx	40000

CD Recorder ※4

D	Denon	40766, 42868
R	RCA	40053, 40420
S	Sony	40000, 40100, 41364
T	Teac	40420
	Thomson	40053

Tape Deck ※3

A	Aiwa	20029, 20197, 20200, 21315
	Akai	20283, 20439
	Arcam	20076
	Audiolab	20029
C	Carver	20029
D	Denon	20076, 20371, 21311, **[22471]***
F	Fisher	20074
G	Garrard	20308, 20309, 20375, 20439
	Genexxa	20439
	GoldStar	20375
	Grundig	20029, 20375
H	Harman/Kardon	20029, 20182, 21314
I	Inkel	20070, 20071, 20337
J	JVC	20244, 20273, 20274, 20303, 20304, 20310, 21309
K	Kenwood	20070, 20071, 20092, 20233, 20234, 21364
L	LG	20375
	Luxman	20308, 20309
M	Magnavox	20029
	Marantz	20009, 20029
	Memorex	20099
	Mitsubishi	20283, 20439
	Myryad	20029
O	Onkyo	20135, 20136, 20282
	Optimus	20027, 20220, 20337, 20439
	Orion	20308, 20309
P	Palladium	20375
	Panasonic	20229
	Philips	20029, 20229
	Phonotrend	20337
	Pioneer	20027, 20099, 20109, 20220, 21312
	Polk Audio	20029
R	Radiola	20029
	RCA	20027, 20220
	Revox	20029
S	Sansui	20029, 20009
	Sanyo	20074
	Sharp	20231, 20371
	Sherwood	20337
	Sonic	20375
	Sony	20170, 20234, 20243, 20291, 21313
T	TaeKwang	20439
	Tandberg	20109
	Teac	20280, 20283, 20308, 20309
	Technics	20229
	Technovox	20229
	Thorens	20029
U	Universum	20375, 20439
V	Victor	20244, 20273, 20274
W	Wards	20027, 20029
	Wharfedale	20439
Y	Yamaha	20094, 20097

Video - Accessory ※1

A	ABS	01272
	Accurian	01653
	Alienware	01272
C	CyberPower	01272
D	D-Link	01554
	Dgtec	01363
E	Epson	01563
G	Gateway	01272
H	Hewlett Packard	01267, 01272
	Howard Computers	01272
	HP	01267, 01272
	Hush	01272
I	iBUYPOWER	01272
	Insignia	01415
L	LG	01415
	Linksys	01272, 01365
M	Media Center PC	01272
	Microsoft	01272, 01805
	Mind	01272
	Motorola	01363
N	Niveus Media	01272
	Northgate	01272
P	Packard Bell	01272
	Panasonic	01120
	Philips	01272
	Pioneer	01010
R	Ricavision	01272
S	Samsung	01190, 01490
	Sensory Science	01126
	Sharp	01010
	SMC	01456
	Sony	01272, 01324, 01364
	Stack 9	01272
	Sylvania	01563
	Systemax	01272
T	Tagar Systems	01272
	Toshiba	01272
	Touch	01272
V	Viewsonic	01272, 01329
	Vizio	01126
	Voodoo	01272
X	Xbox	01805
Z	Zenith	01415
	ZT Group	01272

Satellite Set Top Box ※1

A	@sat	01300
	@Sky	01334
	A-Mark	00345
	ABsat	00123, 00713
	ADB	00642, 01259, 01367, 01418, 01473, 01491
	AGS	00710
	Aiwa	01514
	Akai	00200
	Alba	00455, 00713, 01284, 01659, 01811
	Allsat	00200, 01043
	Alltech	00713
	Allvision	01232, 01334, 01412
	AlphaStar	00772
	Amitronica	00713
	Amstrad	00345, 00713, 00795, 00847, 00863, 00882, 01113, 01175, 01693, 01801
	Anglo	00713
	Ankaro	00713
	AntSat	01083
	Apollo	00455
	Apro	01672
	Arcon	01043, 01075
	Armstrong	00200
	Arnion	01300
	Asat	00200
	ASCI	01334
	ASLF	00713
	AssCom	00853
	Astacom	00710
	Aston	00142
	Astra	00713
	Astratec	01743
	Astro	00173, 00658, 01099, 01100, 01113
	Atlantic Telephone	01333
	Atsat	01300
	AtSky	01334
	Audioline	01672
	Aurora	00642, 00879, 01333, 01433
	Austar	00497, 00642, 00863, 00879, 01176, 01259
	Axiel	00710
	Axil	01457, 01659
	Axis	01111
B	B@ytronic	01412
	Base	01718
	Beko	00455
	Bell ExpressVu	00775
	Big Sat	01457
	Black Diamond	01284
	Blaupunkt	00173
	Blue Sky	00713
	Boca	00713, 01232, 01366
	Boston	00710, 01251
	Brainwave	00658, 01672
	British Sky Broadcasting	00847, 01175, 01662, 01847
	Broco	00713
	BskyB	00847, 01175, 01662
	BT	00710, 01296
	Bubu Sat	00713
	Bush	01284, 01645, 01672, 01743, 01811
C	Canal	00853
	Canal Digital	00853, 01622
	Canal Satellite	00853, 01339
	Canal+	00853, 01339
	Centrex	01457
	CGV	01413, 01567
	Chaparral	00216
	Cherokee	00123, 00710
	Chess	00713, 01085, 01334, 01626
	Chili	01718
	CityCom	00299, 00394, 00818, 01075, 01176, 01232
	Classic	01672
	Clatronic	01413
	CNS	01367
	Comag	01232, 01366, 01412, 01413
	Condor	01700
	Conia	01695
	Contec	00394
	Continental Edison	01695
	Coship	01457
	Crossdigital	01109
	Crown	01284
	Cryptovision	00455, 00795
	CS	01631
	Cyfra+	01076
	Cyrus	00200
D	D-box	00723, 00873, 01114
	Daewoo	00713, 01111, 01296, 01743
	Delfa	00863
	Deltasat	01075
	Dgtec	01542, 01631, 01242
	Digenius	00299
	Digiality	01685
	Digifusion	01645, 01743
	Digihome	01284
	DigiLogic	01284
	DigiQuest	00863, 01300, 01457, 01473, 01631
	DigiSat	01232
	Digisky	01457
	DigitAll World	01227
	Digiturk	01076
	Digiwave	01631
	Dijam	01296
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	DirecTV	00099, 00247, 00392, 00566, 00639, 00724, 00749, 00819, 01076, 01108, 01109, 01142, 01377, 01392, 01414, 01442, 01609, 01639, 01640, 01749, 01856
	Discovery	00710
	Dish Network System	00775, 01505, 01775
	Dishpro	00775, 01505, 01775
	Distratel	01283, 01704
	DMT	01075
	DNT	00200
	Draco	01375
	Dream Multimedia	01237
	DSE	01375
	DSTV	00642, 00879, 01433
	Durabrand	01284
	DX Antenna	01530
E	Echostar	00455, 00610, 00713, 00775, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01505, 01775
	Edision	01631
	Einhell	00713
	Elap	00713, 01567
	Elsat	00713
	Elta	00200, 01659
	Emme Esse	00871
	Energy Sistem	01631
	Engel	00713, 01251

	EP Sat	00455
	Esat	00879
	Eurieult	00882
	Eurocrypt	00455
	EuroLine	01251
	Europa	00863
	Europhon	00299
	Eurosky	00262, 00299
	Eurostar	00818
	Eutelsat	00713
	Expressvu	00775, 01775
F	Fenner	00713
	Ferguson	00455, 01291, 01743
	Finlandia	00455
	Finlux	00455
	Flair Mate	00713
	FMD	01251, 01413, 01457
	Force	01101
	Fortec Star	01083
	Foxtel	00455, 00497, 00795, 00879, 01162, 01176, 01356
	Fracapro Planet	00871
	Fracarro	00125, 00871
	France Telecom	00871
	Freesat	00882
	FTE	00863
	FTEmaximal	00713, 00863
	Fuba	00173, 00262, 00299, 00394, 01214, 01251, 01801
	Fugionkyo	00125
	Funai	01377
G	Galaxis	00853, 00863, 01101, 01111, 01557
	Gardiner	00818
	Garnet	01075
	GbSAT	01214
	GE	00392, 00566
	Gecco	01412
	General Instrument	00869
	General Satellite	01176
	GF Good Friends	01043
	GF Star	01043
	Globo	01251, 01334, 01412, 01429, 01626
	GOD Digital	00200
	GOI	00775, 01775
	Gold Box	00853
	Gold Vision	01631
	Golden Interstar	01283
	GoldStar	00394
	Goodmans	00455, 01284, 01291
	Gradiente	00887
	Granada	00455
	Grandin	01626
	Grundig	00173, 00345, 00847, 00853, 00879, 01284, 01291
H	Handan	01622
	Hanseatic	01099, 01100
	Hauppauge	01672
	HB	01214, 01801
	HDT	01159
	Hills	01232
	Hirschmann	00125, 00173, 00299, 00710, 00882, 01085, 01111, 01232, 01412
	Hisense	01535
	Hitachi	00455, 00749, 00819, 01250, 01284, 01518, 01523, 01525
	Homecast	01214, 01680, 01700
	Hornet	01300
	Houston	00775
	HTS	00775, 01775
	Hughes Network Systems	00749, 01142, 01442, 01749
	Humax	00863, 01176, 01225, 01406, 01427, 01675, 01743, 01790, 01915
	Huth	01075
	Hyundai	01075, 01159
I	iCan	01367
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	ILLUSION sat	01557, 01631
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	Imperial	01334, 01429, 01672
	Indovision	00856, 00887
	Ingelen	00882
	Innova	00099
	Interstar	01214
	InVideo	00871
	ISkyB	00887
	Italtel	00871
	ITT Nokia	00455, 00723, 00873
J	Jadeworld	00642
	Jaeger	01334
	Jerrold	00869
	Jiuzhou	01450
	JOK	00710
	JVC	00775, 01507, 01531, 01775
K	K-SAT	00713
	Kamm	00713
	Kaon	01300
	KaTelco	01111
	Kathrein	00123, 00173, 00200, 00249, 00394, 00442, 00480, 00504, 00658, 00713, 00818, 01221, 01416, 01561, 01567
	Kennex	00125
	Kenwood	00853
	Klap	00710
	Kocmoc TB	01333
	Koscom	01043
	Kosmos	00442, 01333
	Kreiling	00249, 00658, 01626
	Kreiselmeyer	00173
	Kross	01695
L	L&S Electronic	01043, 01334
	Labgear	01296
	LaSAT	00173, 00299
	Lava	01631
	Legend	01718
	Legrand	01718
	Lemon	01334
	Lenco	00713
	Lenoxx	01611
	LG	01075, 01414
	Lifesat	00299, 00713, 01043
	Listo	01626
	Lodos	01284
	Logik	01284
	Logix	01075
	Lorenzen	00299
	Luxor	00345, 00873
M	M Electronic	00818
	M vision	01557
	Magnavox	00722, 00724
	Manata	00710, 00713
	Manhattan	00455, 00710, 01083
	Marantz	00200
	Maspro	00173, 00713, 01530
	Master's	00394
	Matsui	00173, 00710, 01284, 01743
	Maximum	01075, 01334, 01685
	McIntosh	00869
	MDS	01225
	Mediabox	00853
	Mediacom	01206
	MediaSat	00853, 01339
	Medion	00299, 00713, 01043, 01075, 01232, 01334, 01412, 01626
	Medison	00713
	Mega	00200
	Memorex	00724
	Metronic	00713, 00818, 01283, 01334, 01375, 01704
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B	Black Diamond	11037
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	Bush	10698, 11037, 11556, 11900, 11982
C	Centrum	11037
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D	D-Vision	11982
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E	Elfunk	11037
F	Ferguson	11037
	Finlux	11556
G	Goodmans	10587, 11037, 11900
H	Hitachi	11037, 11960
J	JDV	11982
	Jensen	11933
K	KLH	11962
	Kotron	11900
L	Lenco	10587
	Logik	11037
	Luker	11982
	Luxor	11037
M	Matsui	11037
	Maxim	11982
	Medion	11900
	Mirror	11900
N	Naiko	11982
	Narita	11982
P	Panasonic	11941
	Philips	10556, 11454, 11961
	Polaroid	11523, 11962
	Powerpoint	10698
	Prima	11933
R	RCA	11948, 11958
	Roadstar	11900
S	Saivod	11982
	Samsung	11903
	Schneider	11982
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	Sova	11952
	Stevison	11982
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T	Teac	10698
	Technica	11982
	Telefunken	10698
	Thomson	10625
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U	United	10587, 11037, 11982
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	Amstrad	31367
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B	Black Diamond	30713, 30884
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	Broksonic	30695
	Bush	30713, 30884, 31367
C	Centrum	30713
	Citizen	30695
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E	Elfunk	30713, 30884
	Emerson	30675, 31268
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F	Ferguson	30695, 30713, 30884
	Funai	31268
G	Goodmans	30713
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	Grundig	30539
H	Hitachi	30713, 30884, 31247
I	Insignia	31268
J	JDV	31367
	JNC	31271
K	Konka	31192
L	Logik	30713, 30884
	Luker	31367
	Luxor	30713
M	Magnavox	31268
	Matsui	30713, 30884
	Maxim	31367
N	Naiko	31367
	Narita	31367
	Neovia	31271
O	Orion	30695
P	Pacific	30695
	Panasonic	31490
	Philips	30539, 30854, 31260
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S	Saivod	31367
	Samsung	30899
	Sansui	30695
	Schneider	31367
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	Sylvania	30630, 30675, 31268, 32194
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U	United	30713, 30884, 31367
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V	Vestel	30884

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	Amstrad	10171
	Audiovox	10180
B	Beko	10486
	Black Diamond	11909
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D	Daewoo	11909
E	Emerson	10236, 10463, 11909, 11911
F	Ferguson	10073, 10625
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G	GE	10047, 10051, 10093, 11917, 11922
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	Goodmans	10374, 11909
	Grundig	10037, 10195, 10556
H	Harley Davidson	11904
	Hinari	10036
	Hitachi	11904
I	Internal	11909
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L	LG	10178
	Lloyd's	11904
M	Magnavox	10054, 11904
	Memorex	10250
	Mitsubishi	10093, 10556, 11917
O	Orion	10463, 11911
P	Palsonic	11904
	Panasonic	10051, 10250
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Q	Quasar	10051 10250
R	Radiola	10556
	RadioShack	11904
	RCA	10047, 10051, 10093, 11917, 11922
S	Saba	10625
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	Sansui	10463, 11904, 11911
	Schneider	10037, 10556, 11904
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	Sharp	10093, 11917
	Siemens	10037
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	Sylvania	10054
	Symphonic	11904
T	Teac	10171, 10178
	Technics	10556
	Telefunken	10074
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	Thomson	10625
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W	White Westinghouse	11909
Z	Zenith	11904, 11909, 11911

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	Amstrad	20000
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B	Beko	20104
	Bestar	20278
	Blue Sky	20278, 20352, 20742
	BPL	20046
	Broksonic	20002, 20479, 21479
	Bush	20352, 20742
C	Citizen	20278, 21278
	Curtis Mathes	20035, 21035
D	Daewoo	20278, 20637, 21278
	Dantax	20352
E	Emerson	20002, 20278, 20479, 20637, 21278, 21479
F	Ferguson	20000, 20278
	Fidelity	20000
	Firstline	20278
	Funai	20000
G	GE	20035, 20048, 20060, 20240, 20807, 21035, 21060
	GoldStar	20037, 20480, 21237
	Goodmans	20278, 20352, 20637
	Grandin	20278, 20742
	Grundig	20081, 20352, 20742
H	Hanimex	20352
	Harley Davidson	20000
	Hinari	20352
	Hitachi	20000
	Hypson	20037
I	Internal	20278, 20637
J	JBL	20278
	JMB	20352
K	Kambrook	20037
	Kneissel	20278, 20352
L	LG	20037, 20480, 21237
	Lloyd's	20000
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M	Magnasonic	20278, 21278
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	Matsui	20352, 20742
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	Memorex	20037, 20162, 21162, 21237, 21262
	MGA	20240
	Mitsubishi	20043, 20048, 20081, 20807
O	Optimus	20162, 21162, 21262
	Orion	20002, 20352, 20479, 20742, 21479
P	Pace	20352
	Pacific	20742
	Palsonic	20000
	Panasonic	20035, 20162, 21035, 21162, 21262
	Penney	20035, 20037, 20240, 21035, 21237
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	Portland	20637
Q	Quasar	20035, 20162, 21035, 21162
R	Radiola	20081
	RadioShack	20000
	RCA	20035, 20048, 20060, 20240, 20807, 21035, 21060
S	Saba	20320
	Samsung	20240, 20432, 21014
	Sansui	20000, 20479, 21479
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	Saville	20352
	Schneider	20000, 20081
	Sears	20000, 20037, 21237
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	Sony	20000, 20032, 21232
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	Sylvania	20081, 21781
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T	Tatung	20352

	Teac	20000, 20037, 20637, 20642
	Technics	20081
	Technosonic	20352
	Telefunken	20278
	Thomas	20000
	Thomson	20278
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U	United	20742
W	White Westinghouse	20278, 20637
Z	Zenith	20000, 20479, 20637, 21479

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A	Akai	11903
B	Broksonic	11938
E	Emerson	11944
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M	Magnavox	11944
P	Panasonic	11946, 11947
R	RCA	11953
S	Sharp	11917
	Sylvania	11944
	Symphonic	11944
T	Toshiba	11945

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S	Sharp	20807

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E	Emerson	30821
	ESA	30821
M	Magnavox	30821
P	Panasonic	31362, 31462
R	RCA	31132
S	Sharp	30630
	Superscan	30821
	Sylvania	30821
	Symphonic	30821
T	Toshiba	31045

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	Accurian	20000
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	Adventura	20000, 20037, 20240
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	Aiwa	20000, 20032, 20037, 20041, 20209, 20348, 20352, 20479, 20742, 21137
	Akai	20037, 20041, 20106, 20240, 20315, 20348, 20352, 20642
	Akura	20041
	Alba	20000, 20081, 20209, 20278, 20315, 20348, 20352
	Alienware	21972
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	Amstrad	20000, 20278
	Anam	20037, 20162, 20226, 20240, 20278, 20480
	Anam National	20162, 20226, 21162, 21562
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	Aristona	20081
	ASA	20037, 20081
	Asha	20240
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	Avis	20000
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B	Baird	20000, 20041, 20046, 20104, 20106, 20278
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	Beko	20104
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	Bestar	20278
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	Blue Sky	20037, 20209, 20278, 20348, 20352, 20480, 20642, 20742, 21137
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C	Calix	20037
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	Canon	20035
	Capehart	20002
	Carena	20081, 20209
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	Casio	20000
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	Criterion	20000
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	Curtis Mathes	20000, 20035, 20041, 20060, 20162, 20240, 20278, 20432, 21035
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	Decca	20000, 20041, 20067, 20081, 20209, 20352
	Degraff	20042, 20048, 20081, 20104
	Deitron	20278
	Dell	21972
	Denon	200842, 20081
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E	Elbe	20278
	Electrohome	20000, 20037, 20043, 20060, 20209, 20240
	Electrophonic	20037
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	Emerald	20121, 20184
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	Firstline	20037, 20042, 20043, 20045, 20209, 20278, 20348, 20480, 21137
	Fisher	20000, 20039, 20046, 20047, 20104
	Flint	20209, 20348
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DVD preset codes **DVD-Voreinstellungscodes** **Codes préréglés DVD** **Codici di preselezione DVD** **Códigos de preajuste de DVD** **DVD-voorkeuzecodes** **Förinställda DVD-koder**	**111** **(default /standard /** **défaut / default / predérminado /** **standaard / standard)**		**014**
DENON			
Model No.	DVD-900	DVD-2900	DVD-800
Modellnr	DVD-700	DVD-2910	DVD-1600
Modéle numéro	DVD-1000	DVD-2930	DVD-2000
Modello No	DVD-1400	DVD-3800	DVD-2500
N° de modelo	DVD-1500	DVD-3910	DVD-3000
Modelnr	DVD-1710	DVD-3930	DVD-3300
Modellnr	DVD-1720	DVD-A11	
	DVD-1730	DVD-A1XV	
	DVD-1740	DVD-A1	
	DVD-1910	DVD-2500BT	
	DVD-1920	DVD-3800BD	
	DVD-1930		
	DVD-1940		
	DVD-2200		
	DVD-2800		
	DVD-2800II		

[ ]*: Preset codes set upon shipment from the factory.
: Sie Voreinstellungscodes wurden vor der Auslieferung werkseitig eingestellt.
: Les codes préréglés diffèrent en fonctiom des livraison de l'usine.
: I codici di presettaggio sono impostati in fabbrica prima della consegna.
: Los códigos vienen preprogramados de fábrica.
: Vooringestelde codes bij hey verlaten van de fabriek.
: Förinställda koder har ställts in 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.

DENON

www.denon.com

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