

DENON

AV SURROUND RECEIVER

AVR-3806

OPERATING INSTRUCTIONS

■ 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.

FCC INFORMATION (For US customers)

1. PRODUCT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

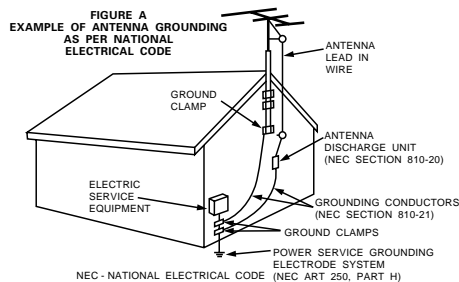
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

SAFETY INSTRUCTIONS

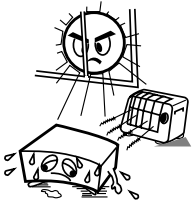

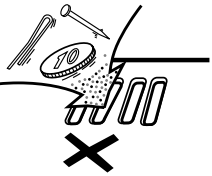
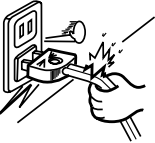



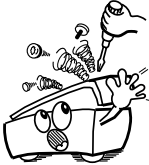
1. Read Instructions – All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
6. Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. Grounding or Polarization – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



13. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
15. Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
16. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
17. Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
18. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
19. Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
20. Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
21. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance – this indicates a need for service.
22. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
23. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
24. Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
25. Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



■ NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION

 <ul style="list-style-type: none"> • Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. 	 <ul style="list-style-type: none"> • Keep the apparatus free from moisture, water, and dust. • Protéger l'appareil contre l'humidité, l'eau et la poussière. 	 <ul style="list-style-type: none"> • Do not let foreign objects into the apparatus. • Ne pas laisser des objets étrangers dans l'appareil.
 <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. 	 <ul style="list-style-type: none"> • Unplug the power cord when not using the apparatus for long periods of time. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.. 	 <ul style="list-style-type: none"> • Do not let insecticides, benzene, and thinner come in contact with the apparatus. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
	 <p>* (For apparatuses with ventilation holes)</p> <ul style="list-style-type: none"> • Do not obstruct the ventilation holes. • Ne pas obstruer les trous d'aération. 	 <ul style="list-style-type: none"> • Never disassemble or modify the apparatus in any way. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.

Getting Started

Thank you for choosing the DENON AVR-3806 Digital Surround A / V amplifier. This remarkable component has been engineered to provide superb surround sound listening with home theater sources such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources.

As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding.

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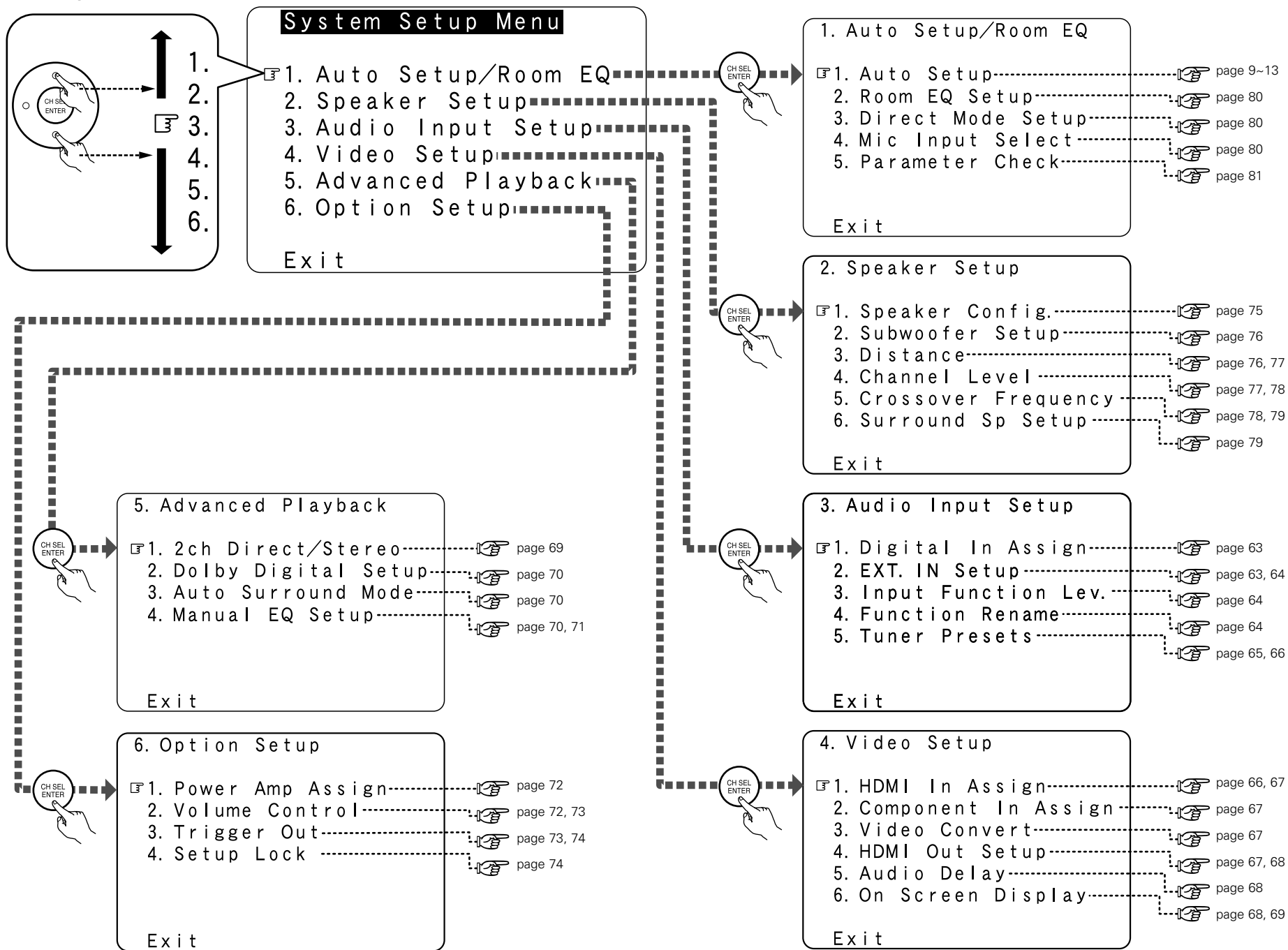
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■ System setup menu



- We greatly appreciate your purchase of the AVR-3806.
- To be sure you take maximum advantage of all the features the AVR-3806 has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.

"SERIAL NO. _____

**PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR
FUTURE REFERENCE"**

MEMO _____

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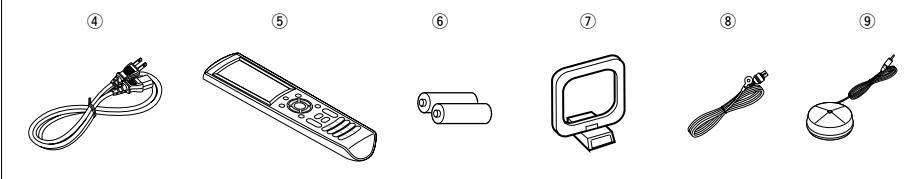
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List of preset codes	End of this manual
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Accessories

Check that the following parts are included in addition to the main unit:

① Operating instructions	1	⑥ LR6/AA alkaline batteries.....	2
② Warranty (for North America model only) ...	1	⑦ AM loop antenna	1
③ Service station list	1	⑧ FM indoor antenna	1
④ Power supply cord.....	1	⑨ Setup microphone (DM-S205)	1
⑤ Remote control unit (RC-1024).....	1		

**Before using**

Pay attention to the following before using this unit:

- **Moving the unit**

To prevent short-circuits or damaged wires in the connection cables, always unplug the power supply cord and disconnect the connection cables between all other audio components when moving the unit.

- **Before turning the power switch on**

Check once again that all connections are correct and that there are not problems with the connection cables. Always set the power switch to the standby position before connecting and disconnecting connection cables.

- **Store these instructions in a safe place.**

After reading, store this instructions along with the warranty card in a safe place.

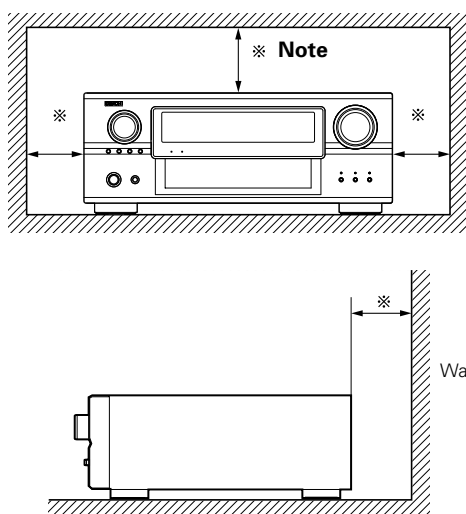
- **Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.**

Cautions on installation

Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV.

If this happens, take the following steps:

- Install this unit as far away as possible from the tuner or TV.
- Run the antenna wires from the tuner or TV away from this unit's power supply cord and input/output connection cables.
- Noise or disturbance tends to occur particularly when using indoor antennas or 300 Ω /ohms feeder wires. **We recommend using outdoor antennas and 75 Ω /ohm coaxial cables.**



Note:

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

Cautions on handling

• Switching the input source when input terminals are not connected.

A clicking noise may be produced if the input source is switched when nothing is connected to the input terminals. If this happens, either turn down the MASTER VOLUME control knob or connect components to the input terminals.

• Muting of PRE OUT terminals, PHONES jack and SPEAKER terminals.

The PRE OUT terminals, PHONES jack and SPEAKER terminals include a muting circuit. Because of this, the output signals are greatly attenuated for several seconds after the power switch is turned on or the input source, surround mode or any other set-up is changed. If the volume is turned up during this time, the output will be very high after the muting circuit stops functioning. Always wait until the muting circuit turns off before adjusting the volume.

• Whenever the power switch is in the STANDBY state, the unit is still connected to AC line voltage.

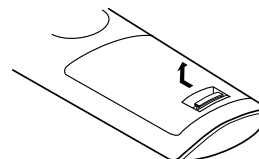
Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation.

Preparing the remote control unit

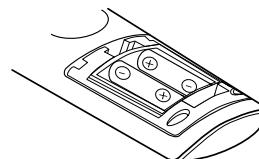
The included remote control unit (RC-1024) can be used to operate not only the AVR-3806 but other remote control compatible DENON components as well. In addition, the memory contains the control signals for other remote control units, so it can be used to operate non-DENON remote control compatible products.

Inserting the batteries

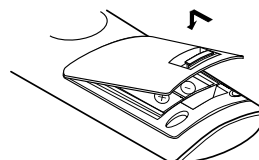
- ① Remove the remote control unit's rear cover.



- ② Set two LR6/AA batteries in the battery compartment in the indicated direction.



- ③ Put the rear cover back on.

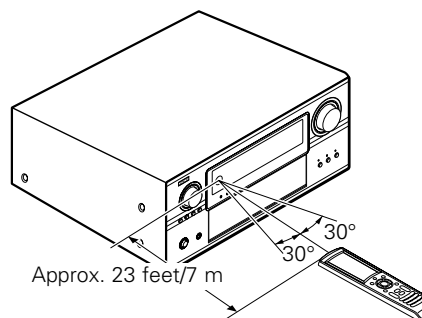


Notes on batteries:

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the unit. (The included batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the “ \oplus ” and “ \ominus ” 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 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.
- 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 on the main unit as shown in the diagram.
- The remote control unit can be used from a straight distance of approximately 23 feet/7 meters from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor.
- The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote sensor.



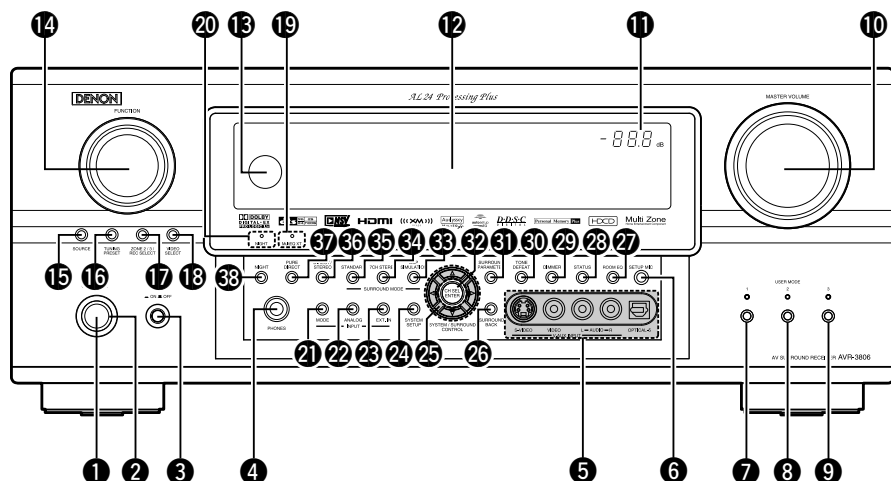
NOTE:

- It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.
- Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction.
- Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

Part names and functions

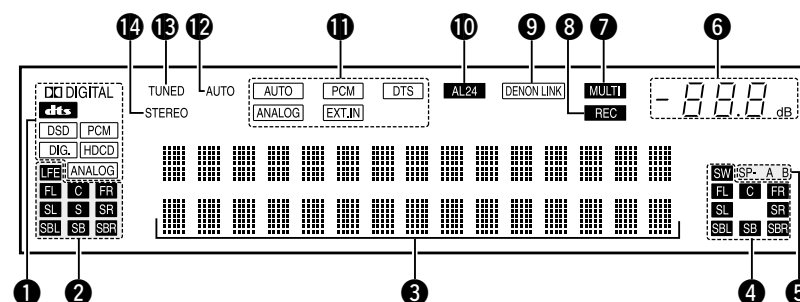
Front panel

For details on the functions of these parts, refer to the pages given in parentheses ().



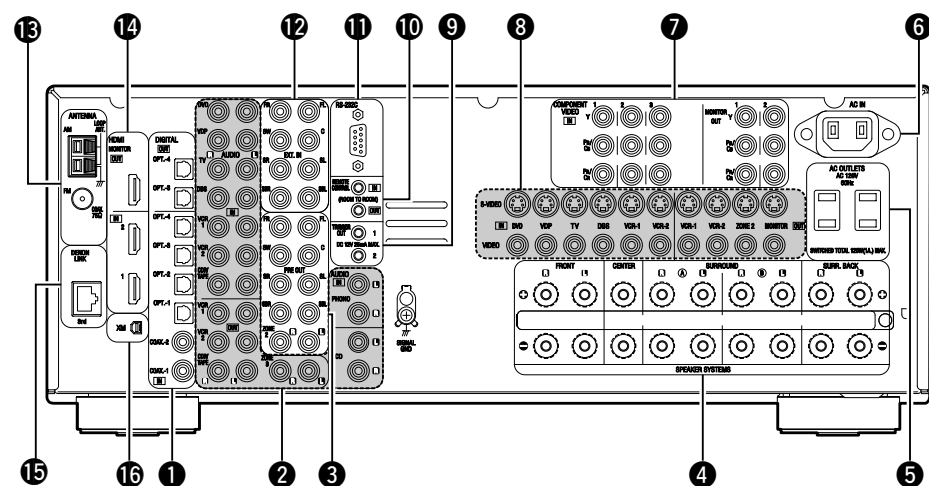
- | | |
|--|--|
| 1 Power ON/STANDBY switch(10) | 20 NIGHT indicator(34) |
| 2 Power indicator(10) | 21 INPUT MODE button(28) |
| 3 Power switch(10, 60) | 22 ANALOG button(30) |
| 4 Headphones jack (PHONES)(28) | 23 EXT. IN button(28) |
| 5 V.AUX INPUT terminals(17) | 24 SYSTEM SETUP button(11) |
| 6 SETUP MIC jack(10) | 25 CURSOR button(11) |
| 7 USER MODE 1 button(38) | 26 SURROUND BACK button(33) |
| 8 USER MODE 2 button(38) | 27 ROOM EQ button(30) |
| 9 USER MODE 3 button(38) | 28 STATUS button(29) |
| 10 Master volume control knob(27) | 29 DIMMER button(29) |
| 11 Master volume indicator(27) | 30 TONE DEFEAT button(42) |
| 12 Display | 31 SURROUND PARAMETER button(33) |
| 13 Remote control sensor(3) | 32 CH SELECT/ENTER button(42) |
| 14 FUNCTION knob(27) | 33 DSP SIMULATION button(40) |
| 15 SOURCE button(27) | 34 7CH STEREO button(40) |
| 16 TUNING PRESET button(44) | 35 STANDARD button(27) |
| 17 ZONE2/3/REC SELECT button(58, 60) | 36 DIRECT/STEREO button(32) |
| 18 VIDEO SELECT button(28) | 37 PURE DIRECT button(32) |
| 19 MultEQ XT indicator(30) | 38 NIGHT button(34) |

Display



- | | |
|---|---|
| 1 Input signal indicator
The respective indicator will light corresponding to the input signal. | 8 Recording output source indicator
REC OUT mode is selected in ZONE2/REC SELECT. |
| 2 Input signal channel indicator
The channels included in the input source will light.
This lights when the digital signal is inputted. | 9 DENON LINK indicator
This lights during playback in a DENON LINK connection. |
| 3 Information display
This displays the surround mode, function name or setting value, etc. | 10 AL24 indicator
The AL24 indicator lights when the PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT, MULTI CH IN mode is selected in the PCM input signal. |
| 4 Output signal channel indicator
The audio channels that can be output light. | 11 Input mode indicator
This lights corresponding to the setting of the input mode. |
| 5 Speaker indicator
This lights corresponding to the settings of the surround speakers of the various surround modes. | 12 AUTO indicator
This lights when the broadcast station is selected in the AUTO tuning mode. |
| 6 Master volume indicator
This displays the volume level.
The Setup item number is displayed in System Setup. | 13 TUNED indicator
This lights when an FM/AM broadcast has been received. |
| 7 Multi (zone) indicator
ZONE2 mode is selected in ZONE2/REC SELECT. | 14 STEREO indicator
This lights when an FM stereo broadcast has been received. |

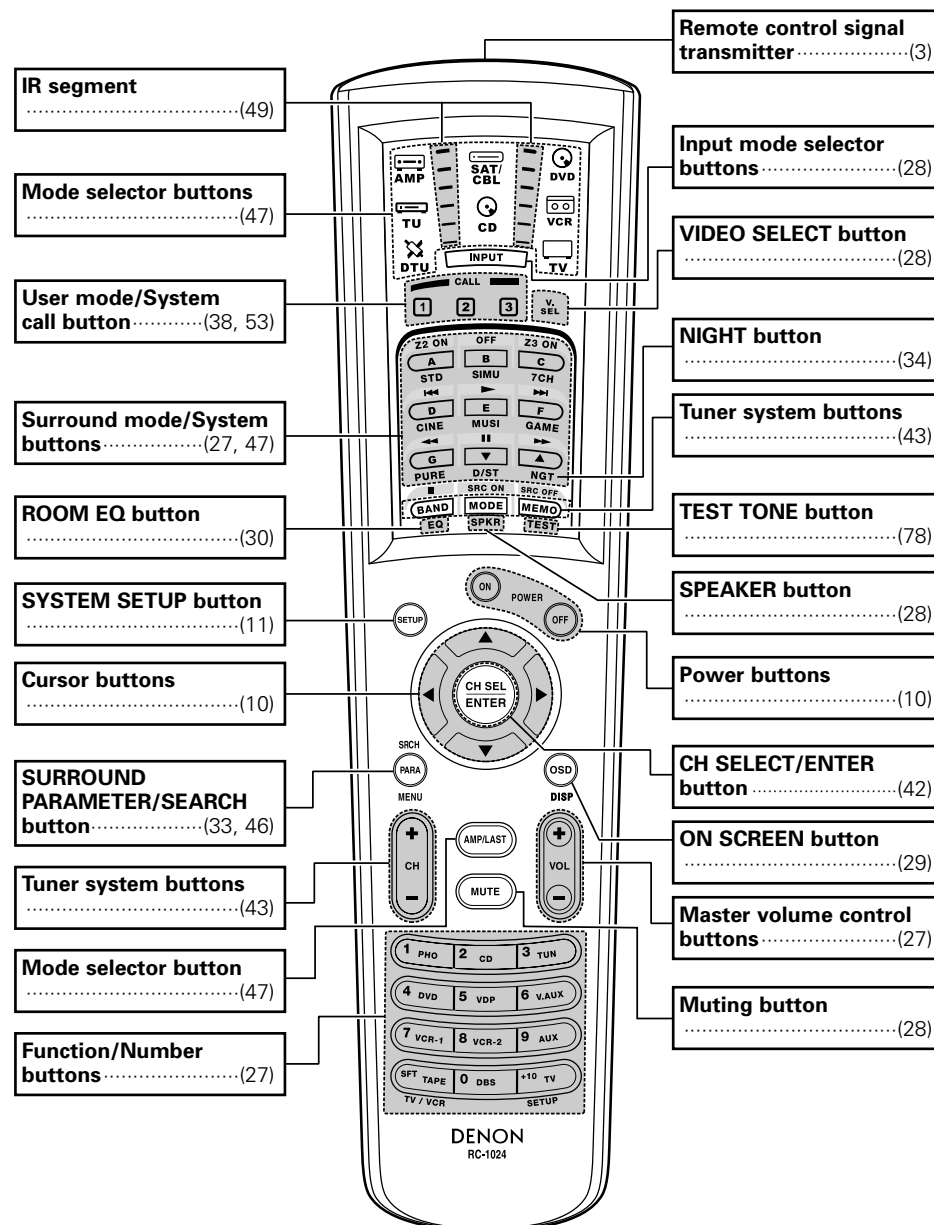
Rear panel



- 1 Digital audio terminals (Optical/Coaxial) ... (8)
- 2 Analog audio terminals ... (8)
- 3 Pre-out terminals ... (25)
- 4 Speaker terminals ... (7)
- 5 AC outlet (s) ... (25)
- 6 AC inlet ... (25)
- 7 Component video terminals ... (8)
- 8 Video/S-Video terminals ... (8)
- 9 12V TRIGGER OUT terminals ... (23)
- 10 Remote control terminals ... (24)
- 11 RS-232C terminal ... (23)
- 12 EXT. IN terminals ... (17)
- 13 AM/FM antenna terminals ... (22)
- 14 HDMI terminals ... (20)
- 15 DENON LINK terminal ... (20)
- 16 XM terminal ... (23)

Remote control unit

For details on the functions of these parts, refer to the pages given in parentheses ().

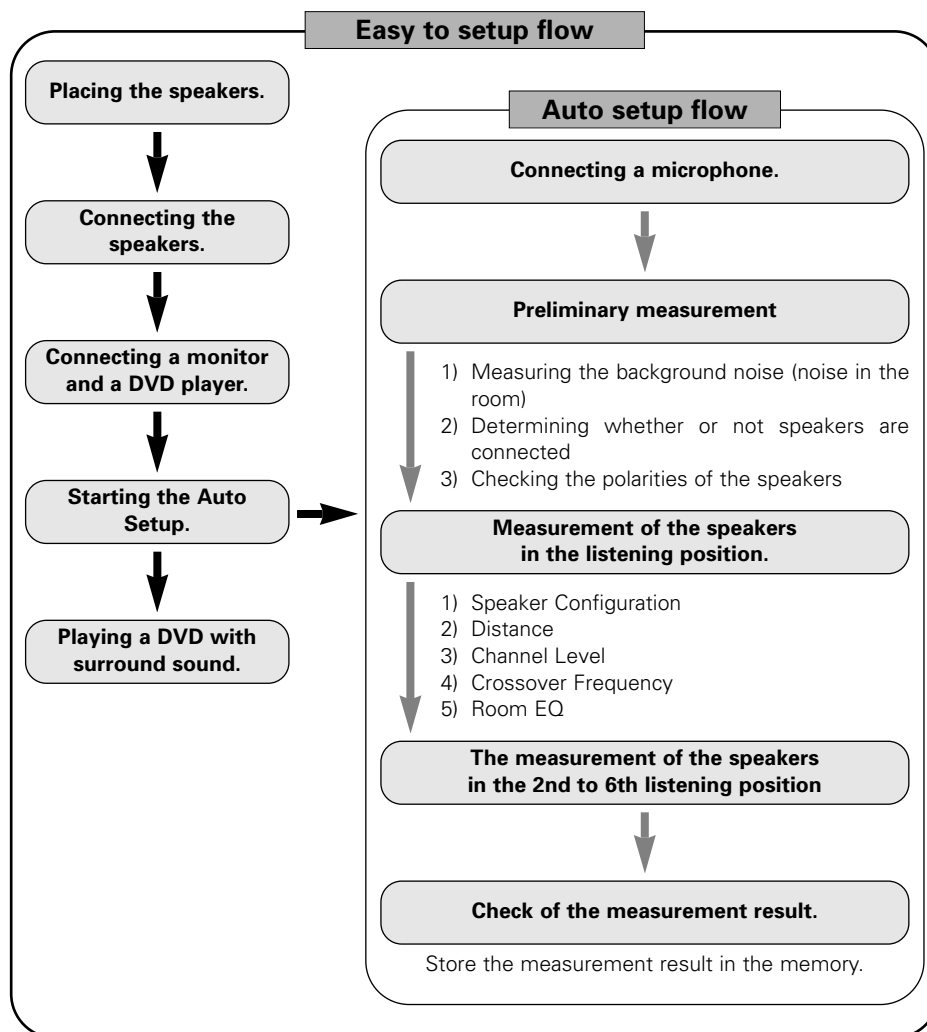


MEMO

- With the AVR-3806, the "AUX" button cannot be used.
- For instructions on setting the remote control unit back light's lighting time (☞ page 54).

Easy Setup and Operation

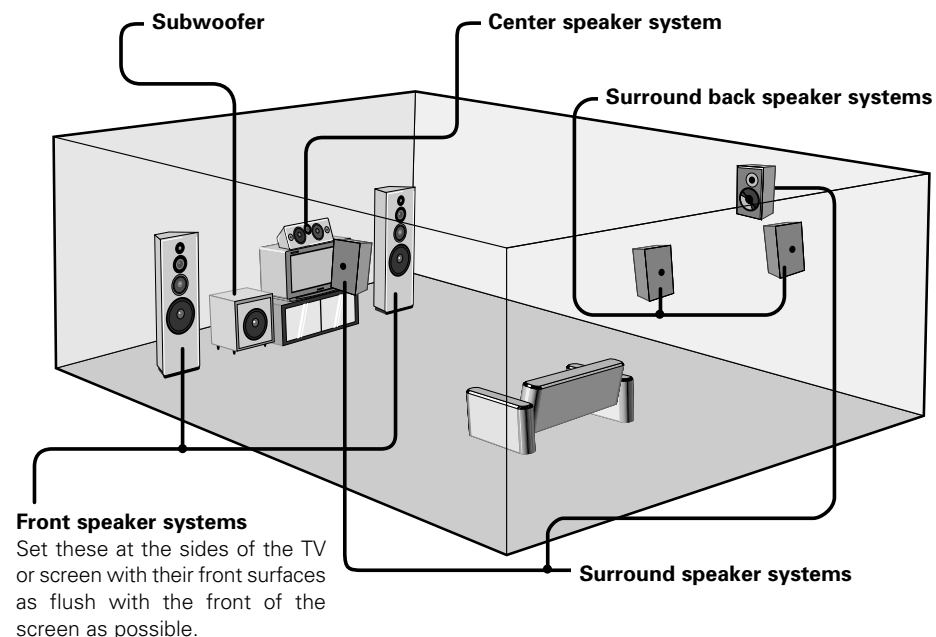
- This section contains the basic steps necessary to configure the AVR-3806 according to your listening room environment and the source equipment and loudspeakers you are using.
- For optimum performance, we recommend using the Auto Setup function.
- If you wish, you can set the various settings manually without using Auto Setup (▶ page 75 ~ 79).



Speaker system layout

Basic system layout

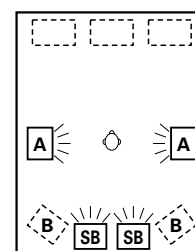
The following is an example of the basic layout for a system consisting of eight speaker systems and a television monitor:



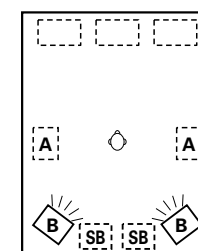
With the AVR-3806 it is also possible to use the surround speaker selector function to choose the best layout for a variety of sources and surround modes.

Surround speaker selector function

This function makes it possible to achieve the optimum sound fields for different sources by switching between two systems of surround speakers (A and B). The settings of the different speakers (A only, B only or A+B) are stored in the memory for the different surround modes, so they are set automatically when the surround mode is selected.



Using A only
(Multi surround speaker system)



Using B only
(Single surround speaker system)

(SB : Surround back speakers)

Speaker connections

- Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊖ with ⊖). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the stereo image being impaired.
- When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel.

NOTE:
NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks.

Speaker impedance

- Speakers with an impedance of from 6 to 16 Ω /ohms can be connected for use as front, center, surround and surround back speakers.
- Be careful when using two pairs of surround speakers (A + B) at the same time, since use of speakers with an impedance of less than 8 Ω /ohms will lead to damage.
- The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance are connected.

Note on speaker impedance

The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance (for example speakers with an impedance of lower than 4 Ω /ohms) are connected. If the protector circuit is activated, the speaker output is cut off. Turn off the set's power, wait for the set to cool down, improve the ventilation around the set, then turn the power back on.

Connecting the speaker cables

- Loosen by turning counterclockwise.
Either tightly twist or terminate the core wires.
- Insert the cable.
- Tighten by turning clockwise.

Connecting banana plugs

Turn clockwise to tighten, then insert the banana plug.

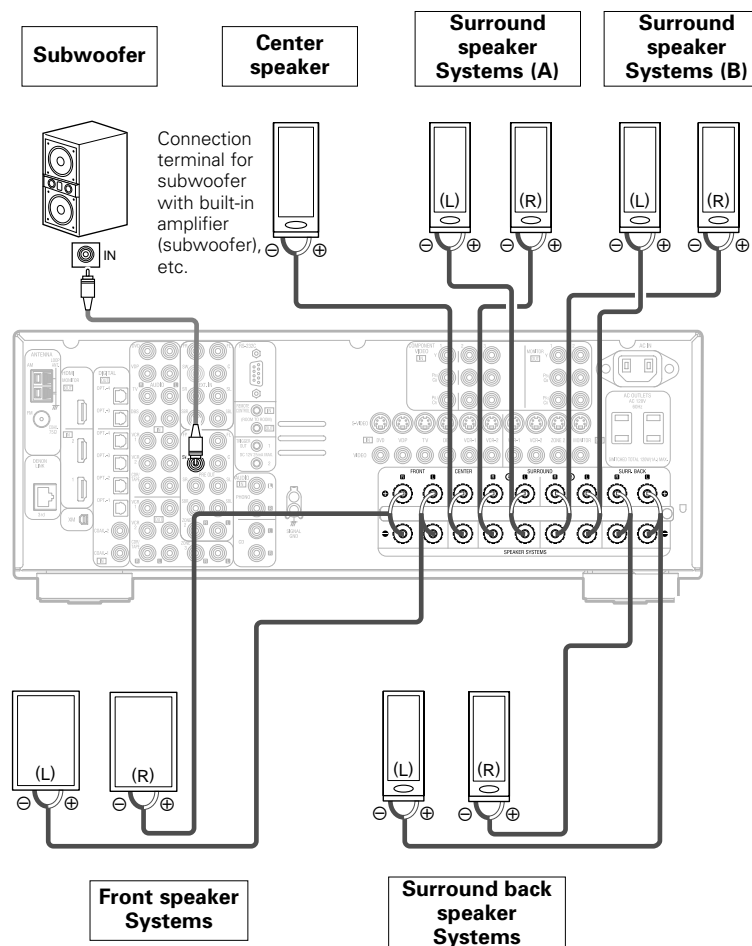
Protector circuit

This unit is equipped with a high-speed protection circuit. The purpose of this circuit is to protect the speakers under circumstances such as when the output of the power amplifier is inadvertently short-circuited and a large current flows, when the temperature surrounding the unit becomes unusually high, or when the unit is used at high output over a long period which results in an extreme temperature rise.

When the protection circuit is activated, the speaker output is cut off and the power supply indicator flashes. Should this occur, please follow these steps: be sure to switch off the power of this unit, check whether there are any faults with the wiring of the speaker cables or input cables, and wait for the unit to cool down if it is very hot. Improve the ventilation condition around the unit and switch the power back on. If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

Connections

- The AVR-3806 can be configured for 10 speaker playback using two pairs of surround speakers (A+B) and one pair of surround back speakers as shown below.
 - The output of the surround back's power amplifier can be assigned to the multi zone or front channel.
- For details, refer to "Setting the Power Amplifier Assignment" (page 72).
- When making connections, also refer to the operating instructions of the other components.



Precautions when connecting speakers:

If a speaker is placed near a TV or video monitor, the colors on the screen may be disturbed by the speaker's magnetism. If this should happen, move the speaker away to a position where it does not cause this effect.

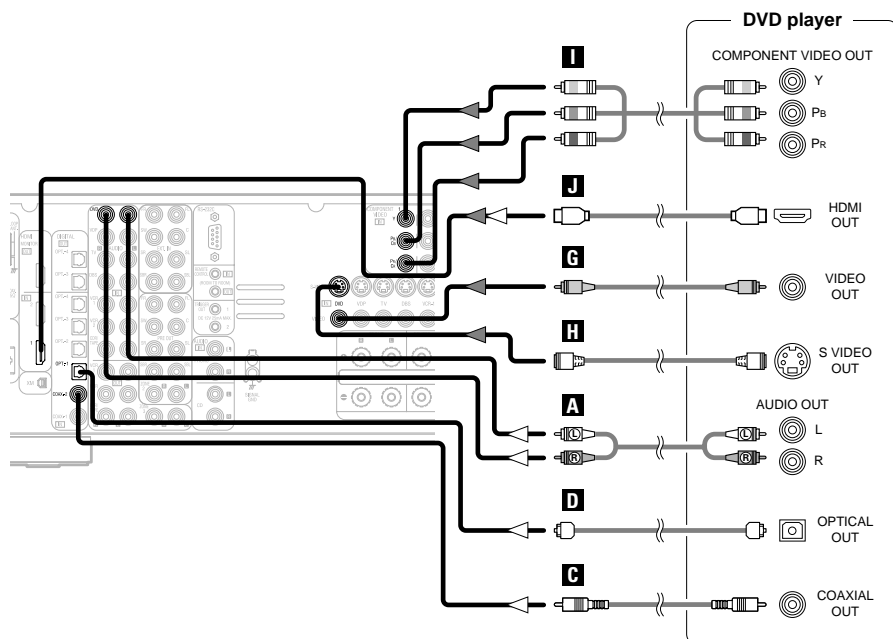
NOTE:

- When using only one surround back speaker, connect it to the left channel.

Easy Setup and Operation

Connecting a DVD player and monitor TV

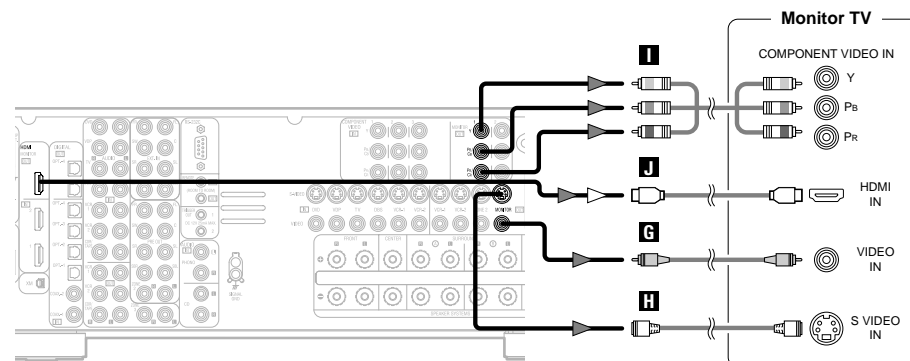
- To connect the video output from the DVD player to the AVR-3806, you only need to choose one connection type. Component video connection offers the best quality (and is required for progressive DVD playback), followed by S-Video, while composite video offers the lowest picture quality of the three connection types. For more information about the video up conversion function (page 15).
- The AVR-3806 is equipped with HDMI connectors, so it can be connected to a DVD player or monitor TV using an HDMI cable.
- To connect the digital audio output from the DVD player, you can choose from either the coaxial or optical connections. If you choose to use the optical connection, it needs to be assigned. For more information about Digital Input Assignment (page 63).
- The AVR-3806 is equipped with another set of input terminals for a non-DVD Video Disc Player (such as laser disc, VCD/SVCD, or future high definition disc player). The above connection guidelines for DVD also apply to the VDP input.



※ Audio signal flow is shown with white arrows; video signal flow is shown with gray arrows.

Easy Setup and Operation

For best picture quality (especially with progressive DVD and other high definition sources), choose the component video or HDMI connection to your monitor TV. S-Video and composite video outputs are also provided if your TV does not have component video inputs.



NOTE:

- The component video input and/or output jacks may be labelled differently on some TVs, monitors or video components (Y, Pb, Pr; Y, Cb, Cr; Y, B-Y, R-Y). Check the owner's manuals for other components for further information.
- The COMPONENT MONITOR OUT-1 and the COMPONENT MONITOR OUT-2 can be used simultaneously.
- Audio signals are only output from the HDMI monitor out terminal when audio signals are input to the HDMI input terminal.
- When connecting the AVR-3806 and DVD player using an HDMI cable, also connect the AVR-3806 and monitor TV using an HDMI cable (page 20).

Auto Setup / Room EQ

The Auto Setup and Room EQ function of this unit performs an analysis of the speaker system and measures the acoustic characteristics of your room to permit an appropriate automatic setting. The AVR-3806's Audyssey MultEQ XT function has the feature that it provides the optimum listening environment at all listening positions in the home theater, where there are often multiple listeners viewing programs together. To achieve this, it is first necessary to use a microphone to measure test tones generated from the different speakers at the various listening positions. All this measured data is analyzed with a unique method to comprehensively improve acoustic characteristics in the listening area. For optimum effectiveness, measurements should be performed at **six points**. Move the microphone successively within the listening area surrounded by the speakers as shown on the diagram below to measure the test tones. When listening to music or viewing movies with the whole family, move the microphone successively to the different positions in which the members of the family sit ("■" on the diagram indicates the points of installation) and measure repeatedly (Example ①). Even if the number of people using the home theater is small, taking multiple measurements at or near the listening positions makes it possible to correct the sound more effectively (Example ②).

The AVR-3806's Room EQ function offers three correction curves: "Audyssey", "Front" and "Flat". These can be selected after performing the auto setup procedure. Details of the different correction curves are described below.

- **Audyssey:**

This adjusts the frequency response of all speakers to correct the effects of room acoustics.

- **Front:**

This adjusts the characteristics of each speaker to the characteristics of the front speakers.

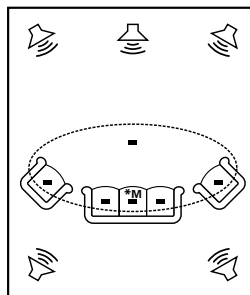
- **Flat:**

This the frequency response of all speakers flat. This is suitable for multi-channel music reproduction, from discrete music sources such as Dolby Digital 5.1, DTS, DVD-Audio and Super Audio CD.

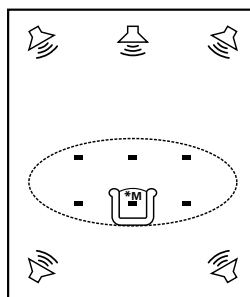
■ About the main listening position (*M)

The main listening position is the point where a listener sits most often or the listening position when only one person is listening. Measurements on the AVR-3806 start from this point. Correction for the speaker distance is set based on this point.

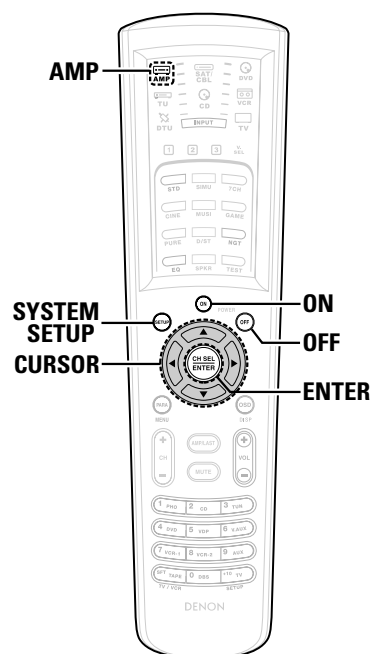
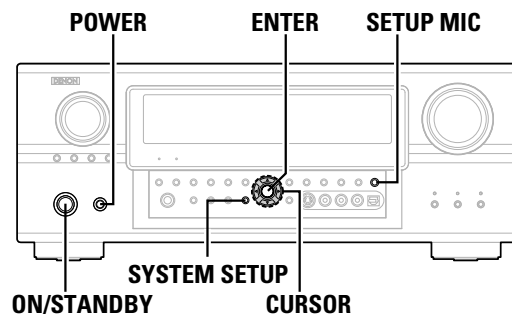
Example: ①



Example: ②

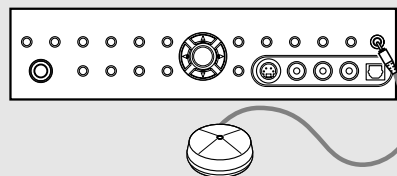


- To make the Speaker system settings without using the Auto Setup function (▶ page 75 ~ 79).

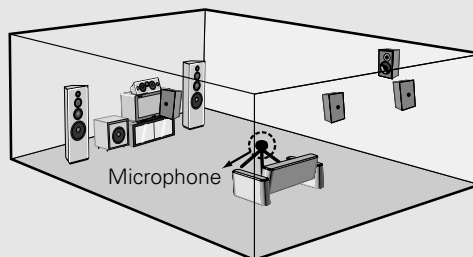


Connecting a microphone

1 Connect the microphone for Auto Setup to the **SETUP MIC** jack on the front panel of the unit.



2 Mount the auto setup microphone onto a camera tripod, etc., and place it at ear height at the main listening position in the listening room with the sound receptor facing the ceiling.



- ※ When placing the microphone, adjust the height so that the microphone's sound receptor is at the height of the ears of the listener.
- ※ Be sure that at the beginning, the measurement is started with the microphone set up at the main listening position.
- ※ It is not possible to measure properly if there are any obstacles between the speakers and microphone. Check that there are no obstacles.
- ※ Please do not stand between or near the speakers and the microphone during the measurements.

NOTE:

- Do not disconnect the microphone until the settings are completed.
- Do not change the connection of speakers or the subwoofer's volume after performing these measurements.

Turning on the power

1 Turn on your subwoofer.

- ※ Set the volume to halfway and set the crossover frequency to the maximum or Low pass filter off if your subwoofer can adjust the output volume and the crossover frequency
- ※ Some subwoofers have a standby mode. Be sure to turn this function off before performing the Auto Setup procedure.

2 Turn on your monitor (TV).

3 Press the **POWER** switch.

ON:

The power turns on and the indicator lights.

Set the **POWER** switch to this position to turn the power on and off from the included remote control unit.

OFF:

The power turns off and the indicator is off.

In this position, the power cannot be turned on and off from the remote control unit.

4 Press the **ON/STANDBY** switch on the main unit or **ON** button on the remote control unit.

- When pressed, the power turns on and the display lights.
- When pressed again, the power turns off, the standby mode is set and the display turns off.

※ The sound is muted for several seconds, after which the unit operates normally.

※ When ever the **ON/STANDBY** button is in the standby state, the apparatus is still connected to the AC line voltage. Please be sure to turn off the **POWER** switch or unplug the cord when you leave home for, say, a vacation.

5 Press the **AMP** button to select the “AMP” mode (only when operating with the remote control unit (see page 26)).

Starting Auto Setup

1 Press the SETUP button.

- The “System Setup Menu” appears.

System Setup Menu

- 1. Auto Setup/Room EQ
- 2. Speaker Setup
- 3. Audio Input Setup
- 4. Video Setup
- 5. Advanced Playback
- 6. Option Setup

Exit

2 Press the CURSOR Δ or ∇ button to select the “Auto Setup / Room EQ”, then press the ENTER button.

- The “Auto Setup / Room EQ” menu screen appears.

1. Auto Setup/Room EQ

- 1. Auto Setup
- 2. Room EQ Setup
- 3. Direct Mode Setup
- 4. Mic Input Select

Exit

3 Press the CURSOR Δ or ∇ button to select the “Auto Setup”, then press the ENTER button.

- The “Auto Setup” screen appears.

1-1. Auto Setup

Please place microphone at ear height at main listening position.

Power Amp Assign

- Surround Back
- Start
- Cancel

- ※ The message “Connect Microphone” is displayed if no microphone is connected. If so, connect the auto setup microphone.

Power Amp Assign

The AVR-3806 has available surround back amplifier channel. If no surround back speakers are used in the main room, their amplifier channels can be assigned for multi-zone use or the front speaker's Bi-Amp connection. If this functionality is not needed, skip this “Power Amp Assign” procedure and proceed to “Preliminary Measurements”.

Press the CURSOR Δ or ∇ button to select the “Power Amp Assign”, then press the CURSOR \triangleleft or \triangleright button to select the “Surround Back”, “Front”, “Front B”, “ZONE2” or “ZONE3”.

1-1. Auto Setup

Please place microphone at ear height at main listening position.

Power Amp Assign

- Surround Back
- Start
- Cancel

- ※ When “Surround Back” is selected, the surround back channel's test tone during Auto Setup will be output from surround back speakers.
- ※ When “Front” is selected, change the setting to a Bi-Amp mode for the front speakers. The front channel's test tone during Auto Setup will be output from the front speakers and the surround back speakers.
- ※ When “Front B” is selected, change the setting to a second stereo output mode. The test tone during Auto Setup will not be output from the surround back speakers.
- ※ When “ZONE2” or “ZONE3” is selected, change the setting to “ZONE2” or “ZONE3”. The test tone during Auto Setup it will not be output to “ZONE2” or “ZONE3” (Another room).

Preliminary measurements

- This procedure is used to automatically determine the background noise, whether or not speakers are connected, and the polarities of the connected speakers.
- To avoid affecting the measurements, turn off the air-conditioner or any other device that makes noise and take the measurements with the room as quiet as possible.
- The set measures the background noise even when in the silent state with no test tones being output, so keep as quiet as possible until the measurements are completed.

1 Press the CURSOR Δ or ∇ button to select the “Start”, then press the CURSOR \triangleleft button.

- The preliminary measurements start.

1-1. Auto Setup

Please place microphone at ear height at main listening position.

Power Amp Assign

- Surround Back
- Start
- Cancel

1-1. Auto Setup

Measuring

Speaker Detect

Cancel

- ※ The screen shown at the below appears once the preliminary measurements are completed.

1-1. Auto Setup

Please place microphone at ear height at main listening position.

Speaker Detect Check

OK Start

Retry

Cancel

2 Press the ENTER button.

- The “Speaker Detect Check” screen appears.

Speaker Detect Check

Front Sp. Yes No

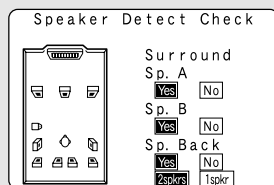
Center Sp. Yes No

Subwoofer Yes No

[First screen]

3 Check the results of the speaker detection, then press the ENTER button.

- The second screen appears.



[Second screen]

4 If the check ends, press the ENTER button again.

NOTE:

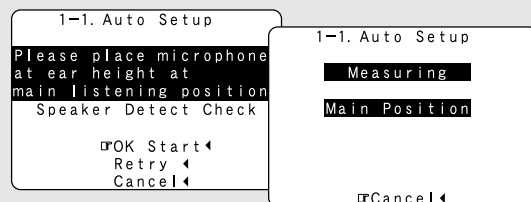
- If the results are not as expected or if an error message is displayed, select "Retry" and perform the measurements again. (For details on the error messages (page 13). If the results of remeasurement are still not as expected or if an error message is displayed, turn off the power switch and check the speaker connections. Then start the measurements again from the beginning.
- Measurement is cancelled when MASTER VOLUME is operated while the Auto Setup is performed.

Speaker system measurement

With these measurements, the "Speaker Configuration", "Distance", "Channel Level", "Crossover Frequency" and "Room EQ" are analyzed automatically. The main listening position is measured first, so leave the microphone where it is.

1 Press the CURSOR Δ or ∇ button to select the "OK Start", then press the CURSOR \triangleleft button.

- Measurements for the first point start.



- The screen shown at the below appears once the measurements for the main listening position are completed.

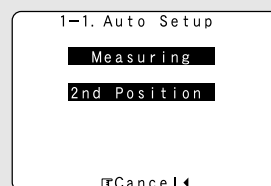


2 Next the measurements for the second point will be taken.

- Place the microphone at the second listening position. For instructions on the position in which the microphone should be placed (page 9).

3 Press the CURSOR \triangleleft button.

- Measurements for the second point start.

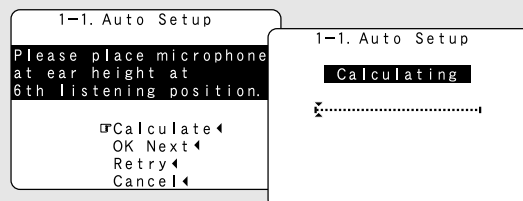


4 Perform step 2, 3 repeatedly.

- The more measurement points, the better the resulting room correction effect. We recommend 6 measurement points – 6 measurement points provides the best room correction effect.

5 After measuring at the number of points according to your listening environment, press the CURSOR Δ or ∇ button to select the "Calculate", then press the CURSOR \triangleleft button.

- The speaker system is analyzed.



- The amount of time required for the analysis depends on the number of speakers and the number of measuring points. The greater the number of speakers and measuring points, the longer the time required.
- Measurements can be ended when there are 6 or less measurement locations; however, to obtain better results, measurements at **6 locations** is recommended.
- Once the calculations are completed, a screen for confirming the results of the measurements appears.

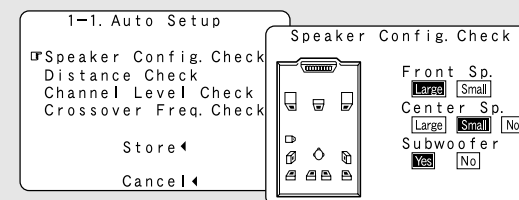
Check of the measurement result

The results of the measured items can be checked.

1 Press the CURSOR Δ or ∇ button to select an item, then press the ENTER button.

- The verification screen appears.

Example: Speaker Config. Check

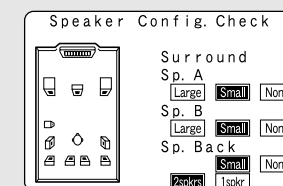


[First screen]

2 Press the ENTER button.

- The second screen appears.

Example: Speaker Config. Check



[Second screen]

3 If the check ends, press the **ENTER** button again.

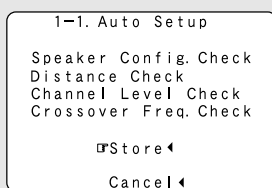
4 Press the **CURSOR** \triangle or ∇ button to select whether or not to save the data you have checked.

Store:

Store the checked measurement values.
All parameters are stored.

Cancel:

Cancel the auto setup settings.



5 Press the **CURSOR** \triangleleft button.

- After the data is stored, the “Auto Setup / Room EQ” menu screen appears automatically.



- When measurements have been made using the measurement microphone, speakers with a built-in filter such as subwoofers might be set with a value that differs from the physical distance because of the internal electrical delay.

NOTE:

- Do not turn off the power while the data is being stored. If the power is turned off while the data is being stored, the Room EQ parameters stored in the memory will be cleared, and it will not be possible to select the “Audyssey”, “Front” or “Flat” equalizer settings.

About the error message

These error messages will be displayed when performing the measurements of Auto Setup and the automatic measurements can not be completed because of the speaker arrangement, measurement environment, or other factors. Please check the following matters, reset the pertinent items, and measure again. Be sure to turn off the AVR-3806's power before checking the speaker connections.

Screen example	Cause	Measures
	<p>① The speakers required for producing suitable reproduction have not been detected.</p> <ul style="list-style-type: none"> • The front L and front R speakers were not properly detected. • Only one channel of the surround (A) and surround (B) speakers was detected. • Sound was output from the R channel when only one surround back speaker was connected. • The surround back or the surround (B) speaker was detected, but the surround (A) speaker was not detected. <p>※ If multiple errors occur, press the CURSOR \triangleleft or \triangleright button to check the contents.</p>	<ul style="list-style-type: none"> • Check that the pertinent speakers are properly connected.
	<p>② The speaker polarity is connected in reverse.</p> <p>※ If multiple errors occur, press the CURSOR \triangleleft or \triangleright button to check the contents.</p>	<ul style="list-style-type: none"> • Check the polarity of the pertinent speakers. • For some speakers, the screen below may be displayed even though the speakers are properly connected. If so, select “Skip”.
	<p>③ There is too much ambient noise in the room and the measurements cannot be made accurately.</p>	<ul style="list-style-type: none"> • Either turn off the power of the device that generated the noise during the measurements or move the device away. • Try again at a time when it is quieter. • Check the placement and orientation of the loudspeakers. • Adjust the subwoofer's output level.
	<p>④ The sound level that is output from the speakers and/or subwoofer is too low.</p>	
	<p>⑤ The measurement microphone is not connected, or all of speakers have not been detected.</p>	<ul style="list-style-type: none"> • Connect the measurement microphone to the microphone connector. • Check the speaker connection.

Playing a DVD with surround sound

1 Disconnect the microphone from the unit.

2 Select the input source to be played.

3 Select the play (surround) mode.

4 Start DVD playback.

5 Adjust the volume.

Connecting Other Sources

Cable indications

The hookup diagrams on the subsequent pages assume the use of the following optional connection cables (not supplied).

Audio cable	Video cable								
<p>A Analog terminal (Stereo)</p> <p>(White) (L) (R) Pin-plug cable</p> <p>B Analog terminal (Monaural, for subwoofer)</p> <p>Pin-plug cable</p> <p>C Digital terminal (Coaxial)</p> <p>(Orange) Coaxial cable (75 Ω/ohm pin-plug cable)</p> <p>D Digital terminal (Optical)</p> <p>Optical cable (Optical fiber cable)</p> <p>E DENON LINK terminal</p> <p>DENON LINK cable</p> <p>F Speaker terminal</p> <p>Speaker cable</p>	<p>G Video terminal</p> <p>(Yellow) Video cable (75 Ω/ohms video pin-plug cable)</p> <p>H S-Video terminal</p> <p>S-Video cable</p> <p>I Component video terminal</p> <p>(Green) (Y) (Blue) (PB/CB) (Red) (PR/CR) Component video cable</p> <tr> <th colspan="2">Audio and Video cable</th></tr> <tr> <td colspan="2"> <p>J HDMI terminal</p> <p>HDMI cable</p> </td></tr> <tr> <th colspan="2">Signal direction</th></tr> <tr> <td colspan="2"> <p>Audio signal</p> <p>IN OUT OUT IN</p> <p>Video signal</p> <p>IN OUT OUT IN</p> </td></tr>	Audio and Video cable		<p>J HDMI terminal</p> <p>HDMI cable</p>		Signal direction		<p>Audio signal</p> <p>IN OUT OUT IN</p> <p>Video signal</p> <p>IN OUT OUT IN</p>	
Audio and Video cable									
<p>J HDMI terminal</p> <p>HDMI cable</p>									
Signal direction									
<p>Audio signal</p> <p>IN OUT OUT IN</p> <p>Video signal</p> <p>IN OUT OUT IN</p>									

NOTE:

- Do not plug in the power supply 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).
- Note that binding pin-plug cables together with power supply cords or placing them near a power transformer will result in hum or other noise.

NOTE:

• Connecting a LD (laser disc) player with a Dolby Digital RF Output.

The AVR-3806 does not have a DD RF demodulator function. Therefore, you need to use a commercially available outboard DD RF demodulator and connect its digital output to one of the AVR-3806 available digital inputs. Refer to the demodulator's owner's manual for further information.

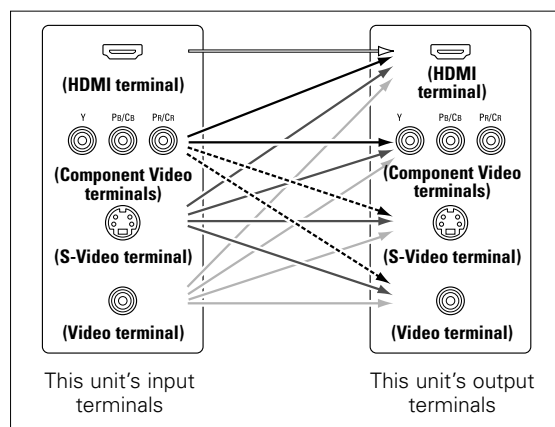
The video conversion function

The AVR-3806 is equipped with a function for up and down converting video signals.

Because of this, the AVR-3806's MONITOR OUT terminal can be connected to the monitor (TV) with a set of cables offering a higher quality connection, regardless of how the player and the AVR-3806's video input terminals are connected.

Generally speaking, analog video connections using the component video terminals offer the highest quality playback, followed by connections using the S-Video terminals, then connections using the regular video terminals (yellow).

The flow of the video signals.



---: only MAIN ZONE 480i/576i

NOTE:

- It is not possible to down-convert from HDMI input signals to the component, S-Video or composite video monitor output terminals.
- Video down conversion to the MAIN ZONE's monitor output is only possible when the component video input resolution is 480i (interlaced standard definition video – NTSC format, for North America) or 576i (interlaced standard definition video – PAL format, for Europe and other countries).
- To set the video conversion function for the MAIN ZONE to "OFF" (🔧 page 67).

■ The analog video to HDMI conversion function:

- The AVR-3806's video up-conversion function lets you output analog video input signals (component – 480i/576i, 480p/576p, 1080i or 720p; S-Video and composite video – 480i/576i) to the HDMI monitor output terminal with the original resolution.
- The on screen display signals are output from the HDMI monitor output terminal with a resolution of 480i/576i. Because of this, if the monitor equipped with HDMI terminal is compatible with the 480i/576i resolution, all the signals the AVR-3806 handles can be output to the monitor with a single HDMI cable. The resolutions with which the monitor is compatible can be checked using the **STATUS** button on the main unit or the **ON SCREEN** button on the remote control unit.



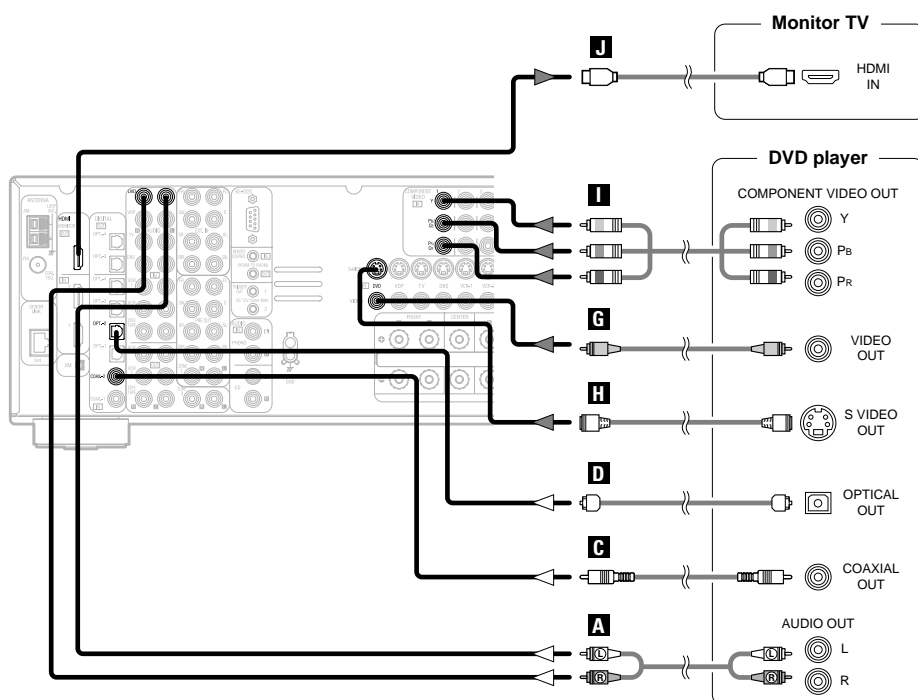
- If the monitor equipped with HDMI terminal is not compatible with the 480i/576i resolution, connect the player and the AVR-3806 using a component cable and set the player's resolution to one which the monitor can handle.
- If you do not want to use the function for converting analog video signals to HDMI signals, select "OFF" for "Analog to HDMI Convert" at "Setting the HDMI Out Setup" (🔧 page 67).
In this case, the function for video up conversion to the component video terminal operates.

On screen display for component video outputs and HDMI output

- When viewing component video signals or HDMI signals via the AVR-3806, the on screen display is displayed on the monitor when the "System Setup" operations are performed and when the remote control unit's **ON SCREEN** button is operated.
- To view the on screen display using an HDMI monitor, set "Analog to HDMI Convert" at "HDMI Out Setup" to "ON" (default).
- When only component video signals are input to the AVR-3806, the characters of the on screen display are not displayed over the picture.

Connecting equipment with HDMI (High-Definition Multimedia Interface) terminals [To convert analog video signals to HDMI signals]

- The AVR-3806 is equipped with a function for converting analog video signals into HDMI signals. You can do this by either a component or a video or a S-Video connection.
- Audio signals are not output from the HDMI monitor output terminal, so also make analog or digital audio connections. To play sound using digital audio connections, assign the digital terminal (coaxial or optical) at "Setting the Digital In Assignment" (page 63).

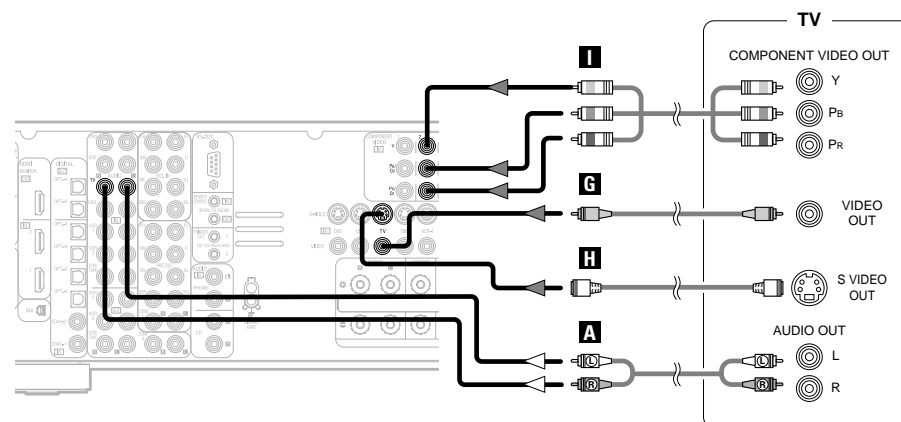


NOTE:

- Use an HDMI monitor compatible with an HDMI input resolution of 480i or 576i.
- If your monitor is not equipped with an HDMI terminal, connect the AVR-3806 to the monitor using the component video, S-Video, or composite video terminals.

Connecting a TV tuner

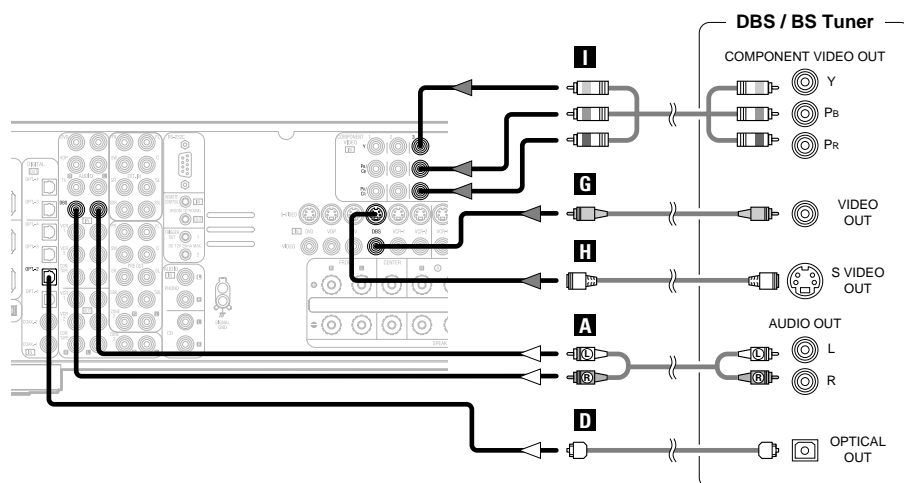
- For best picture quality choose the component video connection to your TV. S-Video and composite video outputs are also provided if your TV does not have component video inputs.
- To connect the digital audio output from the TV, you can choose from either the coaxial or the optical connections. If you choose to use the coaxial or the optical connection, it needs to be assigned. For more information about Digital Input Assignment (page 63).



Connecting Other Sources

Connecting a DBS tuner

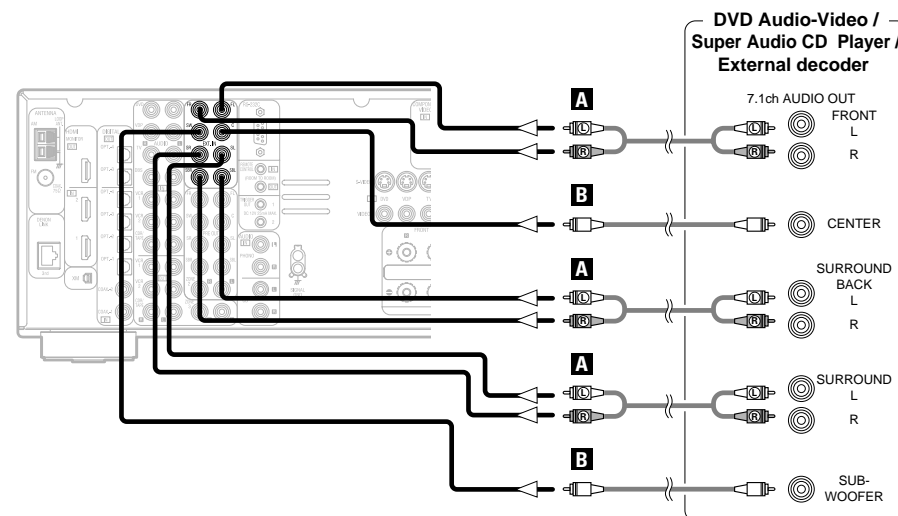
- For best picture quality choose the component video connection to your DBS tuner. S-Video and composite video outputs are also provided.
- To connect the digital audio output from the DBS tuner, you can choose from either the coaxial or optical connections. If you choose to use the coaxial connection, it needs to be assigned. For more information about Digital Input Assignment (page 63).



Connecting Other Sources

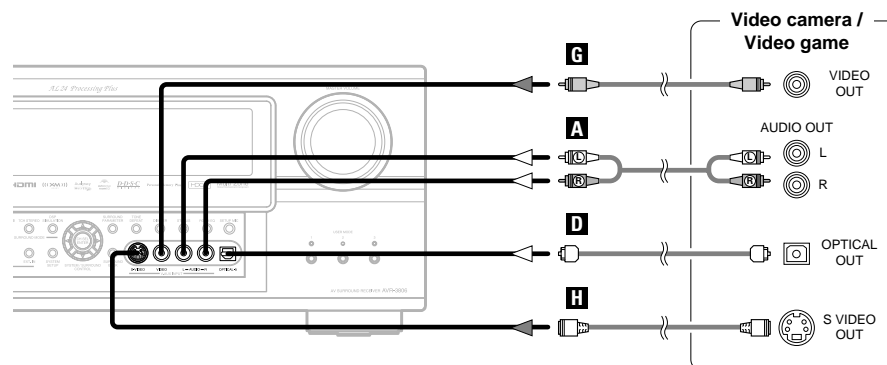
Connecting the external inputs (EXT. IN) terminals

- These terminals are for inputting multi-channel audio signals from an outboard decoder, or a component with a different type of multi-channel decoder, such as a DVD Audio player, or a multi-channel Super Audio CD player, or other future multi-channel sound format decoder.
- The video signal connection is the same as that for a DVD player (page 8).
- For instructions on playback using the external input (EXT. IN) terminals (page 63).



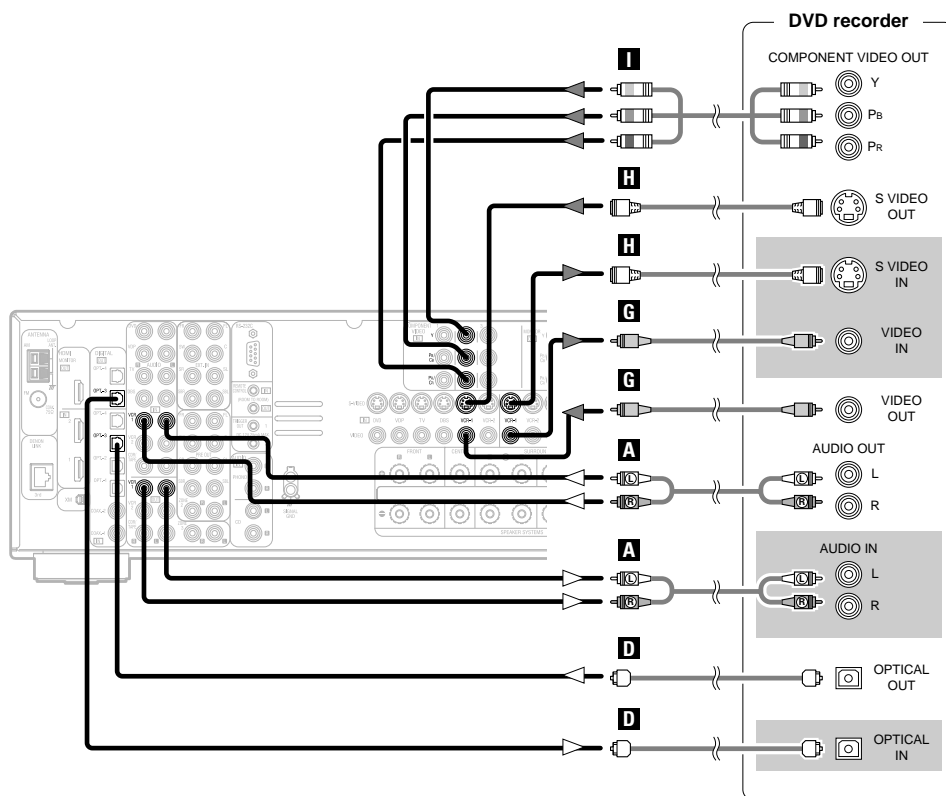
- With discs on which special copyright protection measures have been taken, however, the digital signals may not be output from the DVD player. In this case, connect the DVD player's analog multi-channel output to the AVR-3806's EXT. IN terminals for playback. Also refer to your DVD player's operating instructions.

Connecting a video camera component or video game



Connecting a DVD recorder

- For best picture quality choose the component video connection to your DVD recorder. S-Video and composite video outputs are also provided. If you choose to use the component video connection, it needs to be assigned. For more information about Component Input Assignment (🔧 page 67).
- If you wish to perform analog dubbing from a digital sources, such as a DVD recorder to an analog recorder such as a cassette deck, you will need to connect the analog inputs and outputs as shown below, in addition to the digital audio connections.

**NOTE:**

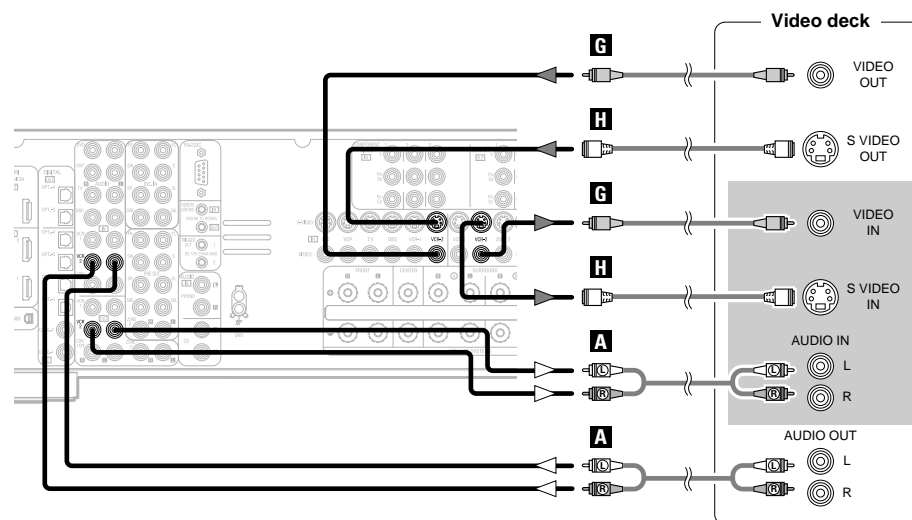
- When recording to a DVD recorder, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVR-3806 VCR-1 (to 2) OUTPUT terminal.

Example: VCR-1 IN → S-Video cable : VCR-1 OUT → S-Video cable
 VCR-1 IN → Video cable : VCR-1 OUT → Video cable

- Do not connect the output of the component connected to the OPTICAL 3 OUT terminal on the AVR-3806's rear panel to any terminal other than the OPTICAL 3 IN terminal.

Connecting a VCR

- There are two sets of video deck (VCR) terminals, so two video decks can be connected for simultaneous recording or video copying.

**NOTE:**

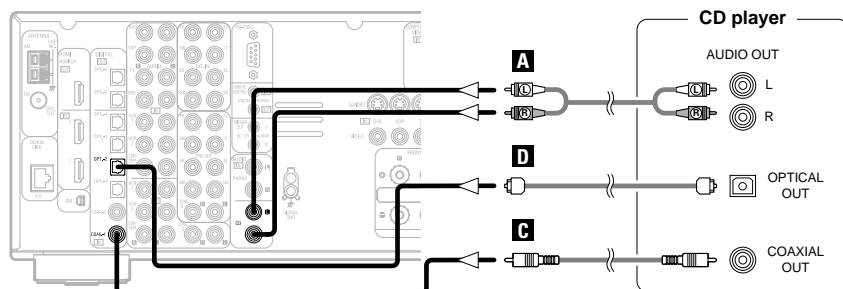
- When recording to a VCR, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVR-3806 VCR-1 (to 2) OUTPUT terminal.

Example: VCR-2 IN → S-Video cable : VCR-2 OUT → S-Video cable
 VCR-2 IN → Video cable : VCR-2 OUT → Video cable

Connecting Other Sources

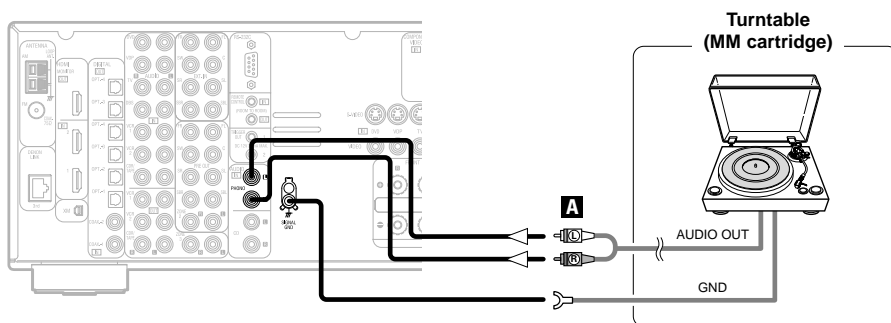
Connecting a CD player

To connect the digital audio output from the CD player, you can choose from either the coaxial or optical connections. If you choose to use the optical connection, it needs to be assigned. For more information about Digital Input Assignment (see page 63).



Connecting a turntable

You can connect the turntable (MM cartridge) to the PHONO terminals.



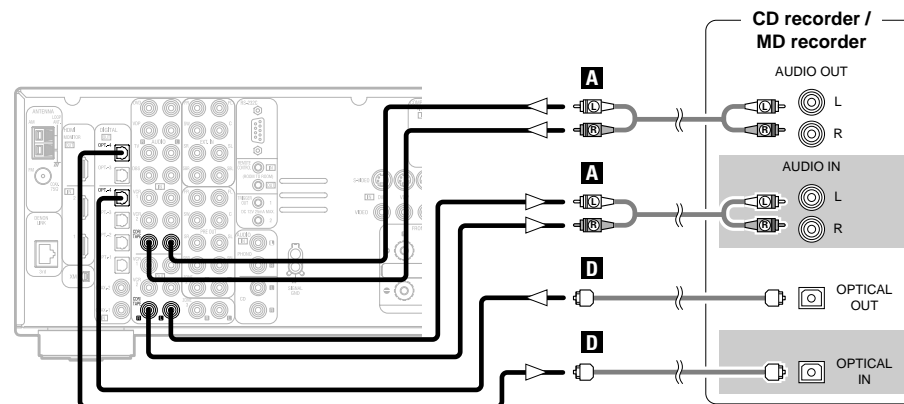
NOTE:

- The phono input can accept signals from moving magnet (MM) and high output moving coil (MC) phono cartridges. If your turntable is equipped with a low output MC cartridge, you will need to use a separate MC head amplifier or step-up MC transformer.
- If humming or other noise is generated when the ground wire is connected, disconnect the ground wire.

Connecting Other Sources

Connecting a CD recorder or MD recorder

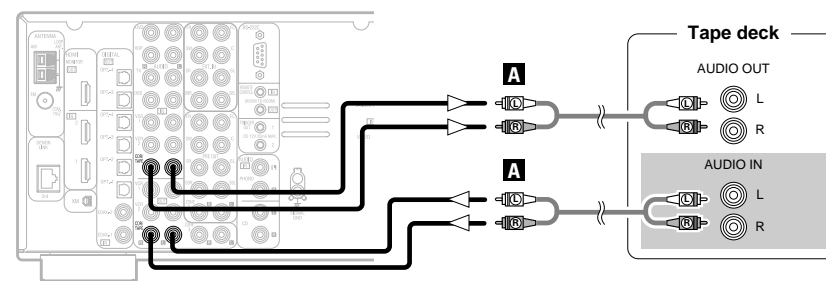
If you wish to perform analog dubbing from a digital source, such as a CD or MD recorder to an analog recorder such as a cassette deck, you will need to connect the analog inputs and outputs as shown below, in addition to the digital audio connections.



NOTE:

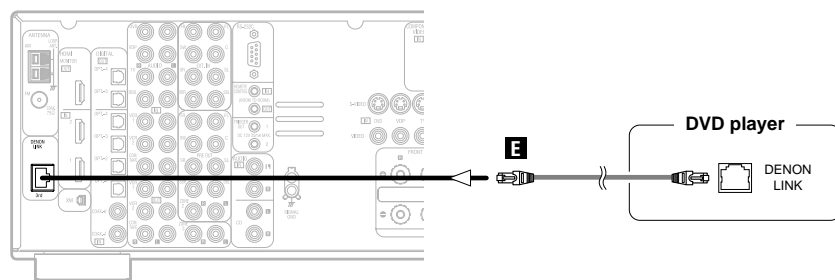
- Do not connect the output of the component connected to the OPTICAL 4 OUT terminal on the AVR-3806's rear panel to any terminal other than the OPTICAL 4 IN terminal.

Connecting a tape deck



DENON LINK connections

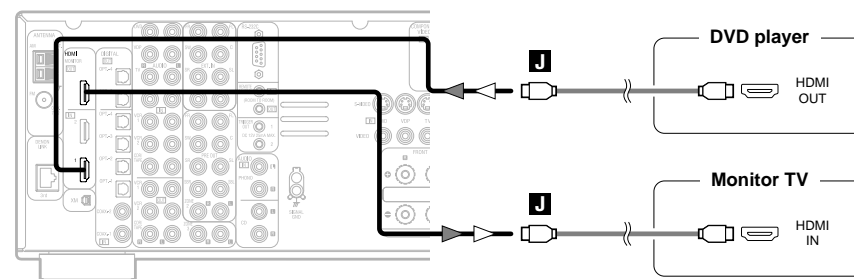
- High quality digital sound with reduced digital signal transfer loss can be enjoyed by connecting a separately sold DENON LINK compatible DVD player.
- Digital transfer and multi-channel playback of DVD Audio discs, Super Audio CDs and other multi-channel sources are possible by connecting the AVR-3806 to a DENON DVD player equipped with a DENON LINK connector using the connection cable included with the DVD player. For instructions on playing Super Audio CDs (page 59).
- When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to "DENON LINK" with "Setting the Digital In Assignment" (page 63).



- With discs on which special copyright protection measures have been taken, however, the digital signals may not be output from the DVD player. In this case, connect the DVD player's analog multi-channel output to the AVR-3806's EXT. IN terminals for playback. Also refer to your DVD player's operating instructions.

Connecting equipment with HDMI (High-Definition Multimedia Interface) terminals

- A simple 1-cable connection (using a commercially available cable) with a device having an HDMI (High-Definition Multimedia Interface) connector allows digital transfer of the digital images of DVD video and other sources, and the multi-channel sound of DVD Audio and DVD Video.
- To provide audio output from AVR-3806's audio output connector, select "Amp" at the System Setup. To provide audio output from the TV, select "TV" at the System Setup. For details, see "Setting the HDMI In Assign" (page 66, 67).



Input signals		
DVD Video	LINEAR PCM	○
	Dolby Digital	○
	DTS	○
DVD Audio	LINEAR PCM PACKED PCM (with CPPM / without CPPM)	○
CD	LINEAR PCM	○
Super Audio CD	Multi area	×
	Stereo area	×
	CD area	○

※ The AVR-3806 is HDMI Ver. 1.1 compatible.

■ Copyright Protection System

To play back the digital video and audio of DVD video and DVD audio through an HDMI/DVI-D connection, both the connected player and monitor are required to support a copyright protection system called HDCP (High-bandwidth Digital Content Protection System). HDCP is copy protection technology that comprises data encryption and authentication of the partner equipment.

The AVR-3806 supports HDCP. Please see the user's manual of your video display for more information about this.

NOTE:

- The audio signals on the multi/stereo area of Super Audio CDs are not output. If the Super Audio CD is a hybrid CD, only the audio signals in the CD area are output.
- Use a compatible player to play DVD Audio discs that are copyright protected by CPPM.
- Among the devices that support HDMI, some devices can control other devices via the HDMI connector; however, the AVR-3806 cannot be controlled by another device via the HDMI connector.
- The audio signals from the HDMI connector (including the sampling frequency and bit length) may be limited by the equipment that is connected.
- The video signals are not output properly if a device not compatible with HDCP is used.
- Use an HDMI monitor compatible with an HDMI input resolution of 480i or 576i.
- The video signals input from the HDMI input terminals are output to the HDMI monitor with their original resolution, so the image will not be displayed if the resolutions of the input signal and the monitor being used are not matched. In this case, change the setting of the resolution on the source device (player) to one which the monitor can handle.
- For stable signal transfer, we recommend using cables that are a maximum of 5 meters in length.



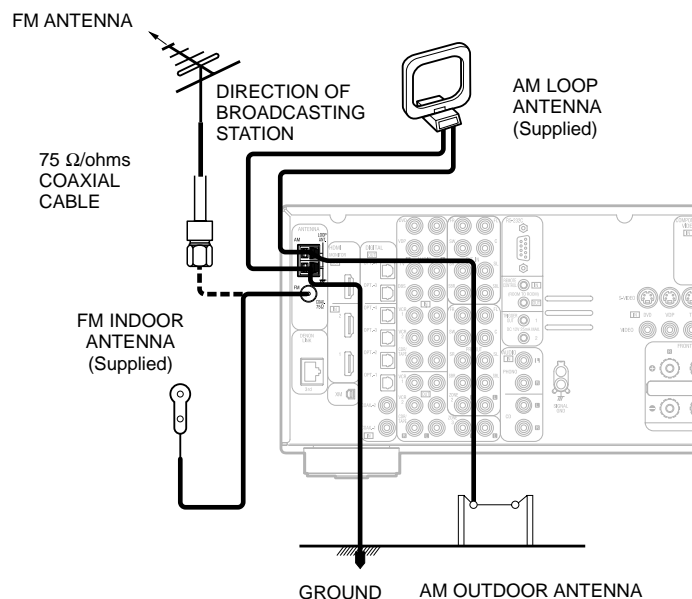
- If your digital TV monitor or DVD player only supports DVI-D, please obtain and use an HDMI-DVI conversion cable or adaptor, available from your dealer.

■ Connections with an HDMI/DVI-D conversion cable (adapter)

- The HDMI video stream signals (video signals) are theoretically compatible with DVI-D. When connecting to a monitor, etc., equipped with DVI-D terminals, it is possible to connect using an HDMI/DVI-D conversion cable, but depending on the combination of devices used the image might not be output.
- When using an HDMI/DVI-D conversion adapter, the image may not be output properly due to poor contact with the connected cable, etc..

Connecting the antenna terminals

An F-type FM antenna cable plug can be connected directly.



AM loop antenna assembly

- Connect to the AM antenna terminals.
- Remove the vinyl tie and take out the connection line.
 - Bend in the reverse direction.
 - With the antenna on top any stable surface.
 - With the antenna attached to a wall.
- Mount
- Installation hole Mount on wall, etc.

Connection of AM antennas

1. Push the lever.

2. Insert the conductor.

3. Return the lever.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

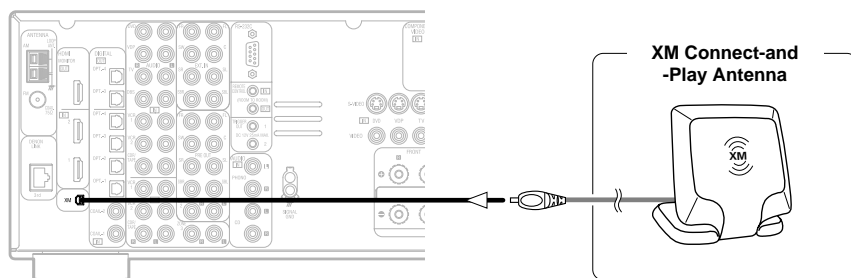
NOTE:

- 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.

Connecting Other Sources

Connecting the XM terminal

- AVR-3806 is the XM Ready® receiver. You can receive XM Satellite Radio® by connecting to the XM Connect-and-Play™ (sold separately) and subscribing the XM service.
 - Plug the XM Connect-and-Play antenna into XM terminal on the rear panel.
 - Position the XM Connect-and-Play antenna near a south-facing window to receive the best signal. For details, see “XM Satellite Radio” (page 45).
- When making connections, also refer to the operating instructions of the XM Connect-and-Play antenna.

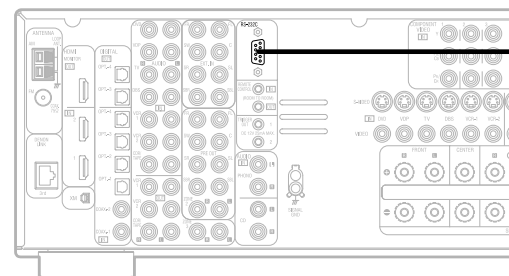


NOTE:

- Keep the power supply cord unplugged until the XM Connect-and-Play antenna connection have been completed.

Connecting Other Sources

Connecting the CONTROL terminal



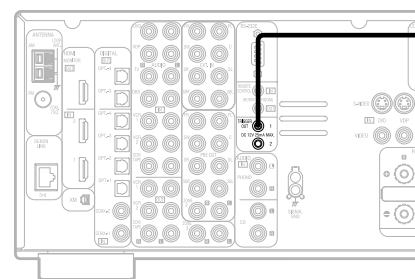
This terminal is used for an external controller.

Perform the following operation before using an external controller connected to the RS-232C terminal:

1. Press the **ON/STANDBY** switch on the main unit and set the unit to the operating mode.
2. Perform the operation to turn off the power from the external control.
3. Check that the product has been set to the standby mode.

After checking the above, check the connections of the external controller. Operation is possible.

Connecting the TRIGGER OUT terminals



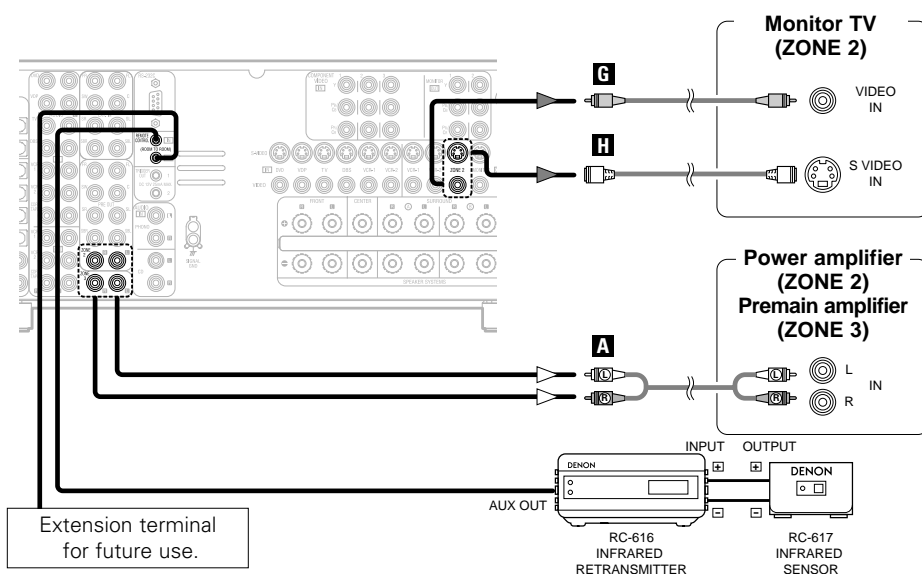
Turn the DC 12V voltage on and off for the individual functions and surround modes. For details, see “Setting the Trigger Out” (page 73).

Connecting the MULTI ZONE terminals

※ For instructions on operations using the MULTI ZONE functions (page 56–58).

ZONE2 (or ZONE3) pre-out connections

- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 pre-out (variable) and ZONE3 pre-out (fixed level) terminals can be used to play a different program source in ZONE2 (or ZONE3) the same time (page 56).
- The ZONE2 video out is only for the ZONE2.
- When a sold separately room-to-room remote control unit (DENON RC-616, 617 or 618) is wired and connected between the MAIN ZONE and ZONE2 (ZONE3), the remote-controllable devices in the MAIN ZONE can be controlled from ZONE2 (ZONE3) using the remote control unit.



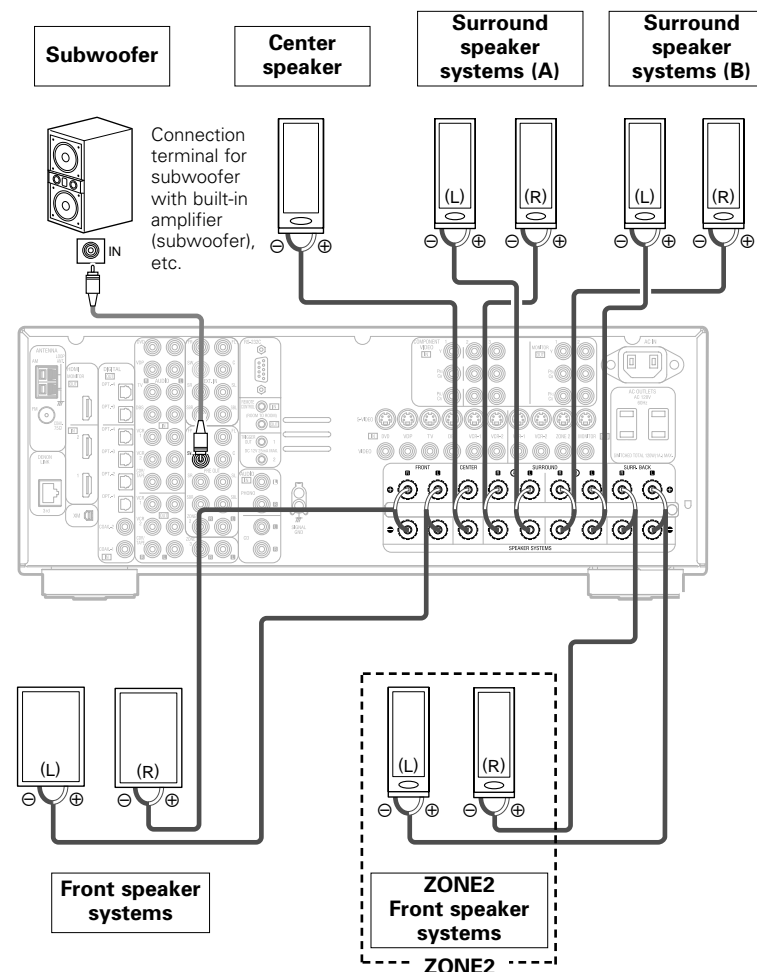
NOTE:

- For the AUDIO output, use high quality pin-plug cables and wire in such a way that there is no humming or noise.
- For instructions on installation and operation of separately sold devices, refer to the devices' operating instructions.

ZONE2 / ZONE3 speaker out connections

- When the surround back's power amplifier is assigned to the ZONE2 or ZONE3 output channel at "Power Amp Assign" in the "System Setup Menu", the surround back speaker terminals can be used as the ZONE2 or ZONE3 speaker out terminals (page 57).
- The connections diagram below is an example for when the surround back speaker is assigned to the ZONE2 stereo 2 channel.

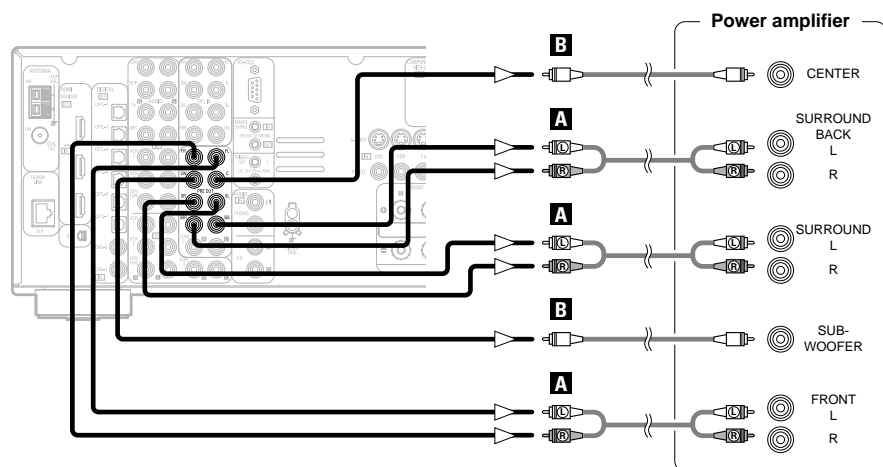
In this case, surround back speaker out can not be used for MAIN ZONE.



Connecting Other Sources

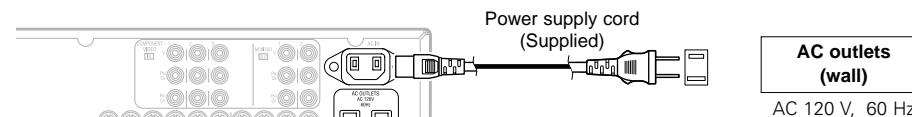
Connecting the pre-out terminals

- Use these terminals if you wish to connect external power amplifier(s) to increase the power of the front, center, surround and surround back sound channels, or for connection to powered loudspeakers.
- When using only one surround back speaker, connect it to the left channel.



Connecting Other Sources

Connecting the power supply cord



AC OUTLETS

- **SWITCHED** (total capacity – 120 W (1 A.))
The power to the outlet is turned on and off in conjunction with the **POWER** switch on the main unit, and when the power is switched between on and standby from the remote control unit.
No power is supplied from this outlet when this unit's power is at standby. Never connect equipment whose total power consumption exceeds 120 W (1 A.).

NOTE:

- Only use the AC OUTLETS for audio equipment. Never use it for hair driers, TVs or other electrical appliances.
- Insert the plugs securely. Incomplete connections will result in the generation of noise.

Basic Operation

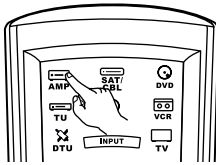
Playback

Operating the remote control unit

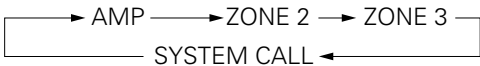
The RC-1024 remote control has a backlit EL display whose contents change according to the mode or function selected, with the appropriate remote commands for that mode or function.

■ Operate the this unit

The **AMP** button is the main mode for controlling the AVR-3806 in the main room (MAIN ZONE).



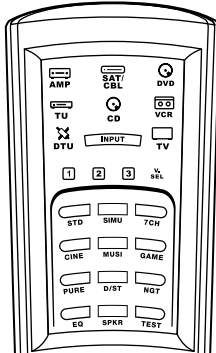
※ The function switches as shown below each time one of the **AMP** button is pressed.



※ The EL display switches as shown below with respect to the selected mode.

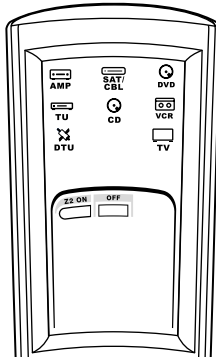
■ AMP mode

To operate the MAIN ZONE function.



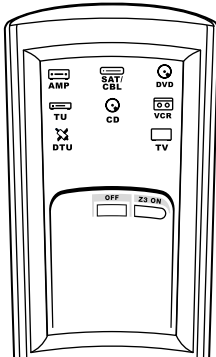
■ ZONE2 mode

To operate the ZONE2 function.



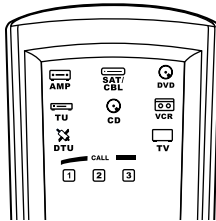
■ ZONE3 mode

To operate the ZONE3 function.

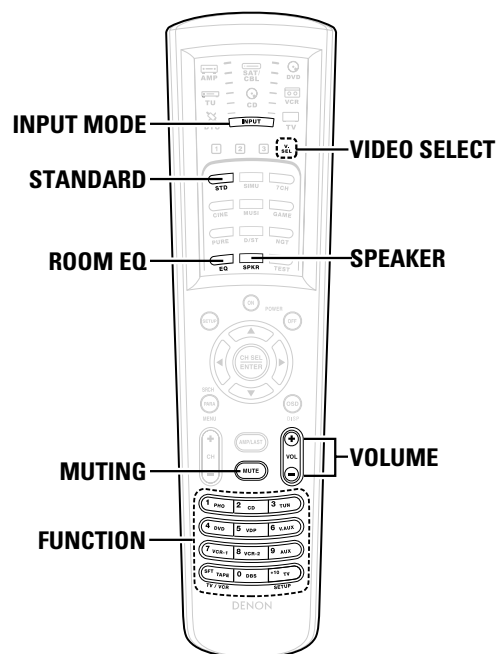
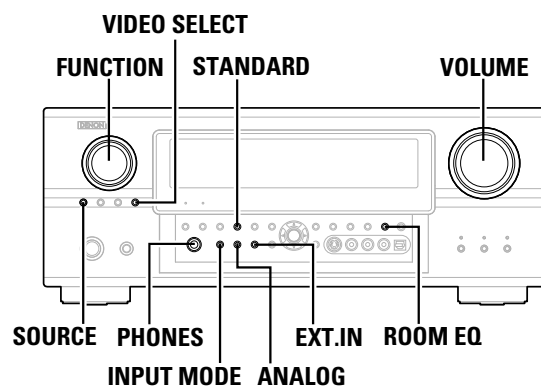


■ SYSTEM CALL mode

To operate the “System call” function.



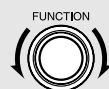
- This function provides the ability to program a series of individual remote control codes into a macro stored under one of the number pad’s numeric choices (see page 53).



Playing the input source

1 Select the input source to be played.

Example: CD



(Main unit)



(Remote control unit)

※ To select the input source when ZONE2/3/REC SELECT, VIDEO SELECT or TUNING PRESET is selected, press the **SOURCE** button on the main unit then operate the **FUNCTION** knob.

2 Start playback on the selected component.

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

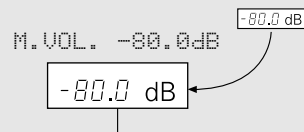
3 Adjust the volume.



(Main unit)



(Remote control unit)



The volume level is displayed on the master volume level display.

※ The volume can be adjusted within the range of -80 to +18 dB, in steps of 0.5 dB. However, when the channel level is set (page 42 or 77, 78), if the volume for any channel is set at +0.5 dB or greater, the volume cannot be adjusted up to 18 dB. (In this case the maximum volume adjustment range is "18 dB — (Maximum value of channel level)".)

※ Also, you may not be able to adjust the volume to the maximum of 18 dB when internal volume compensation control is activated due to the combination of the surround mode and parameters, downmixing from multi-channel audio signals into two channels, etc.

■ To choose the surround sound mode

Example: Dolby Digital

Press the **STANDARD** button.

※ For more information about the surround modes (page 33, 34).

■ To select the Room EQ function

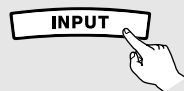
Press the **ROOM EQ** button.

※ For more information about the Room EQ function (page 30).

Playback using the external input (EXT. IN) terminals

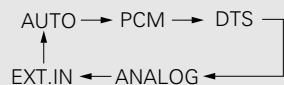
Press the **EXT. IN** button on the main unit or **INPUT MODE** button on the remote control unit to switch the external input.

When operating the remote control unit:



(Remote control unit)

※ The mode switches as shown below each time the **INPUT MODE** button is pressed:



- Cancelling the external input mode:
Press the **INPUT MODE** or **ANALOG** button to switch to the desired input mode (☞ page 29, 30).
- The external input mode can be set for any input source. To watch video while listening to sound, select the input source to which the video signal is connected, then set this mode.
- If the subwoofer output level seems too high, set the "SW ATT" surround parameter to "ON".

NOTE:

- When the input mode is set to the external input (EXT. IN), the surround mode (DIRECT, STEREO, STANDARD, 7CH STEREO, WIDE SCREEN or DSP SIMULATION) cannot be set.
- In play modes other than the external input mode, the signals connected to these terminals cannot be played. In addition, signals cannot be output from channels not connected to the input terminals.

Turning the sound off temporarily (MUTING)

Use this to mute the audio output temporarily.

Press the **MUTING** button.

- You can adjust the muting level (☞ page 72, 73).



- Cancelling MUTING mode:
Press the **MUTING** button again, or press the **VOLUME** button on the remote control, or adjust the volume up or down via the front panel **VOLUME** knob.

Listening over headphones

Connect the headphones to the **PHONES** jack.

- The pre-out output (including the speaker output) is automatically turned off when headphones are connected.

NOTE:

- To prevent hearing loss, be careful not to raise the volume level excessively when using headphones.

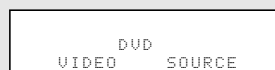
Combining the currently playing sound with the desired image (VIDEO SELECT)

■ Operate the video select from the main unit

Press the **VIDEO SELECT** button, turn the **FUNCTION** knob until the desired image appears on the display.



(Main unit)



- ※ The video source selected with the video select function is stored in the memory for the different input sources.

■ Operate the video select from the remote control unit

Press the **VIDEO SELECT** button until the desired image appears.

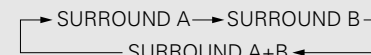


- Cancelling simulcast playback:
Select the "SOURCE" pressing the **VIDEO SELECT** button.
- It is not possible to select HDMI input signals.
- When playing HDMI video input signals, the analog video signal of another function cannot be selected for the HDMI video output.

Switching the surround speakers

Press the **SPEAKER** button.

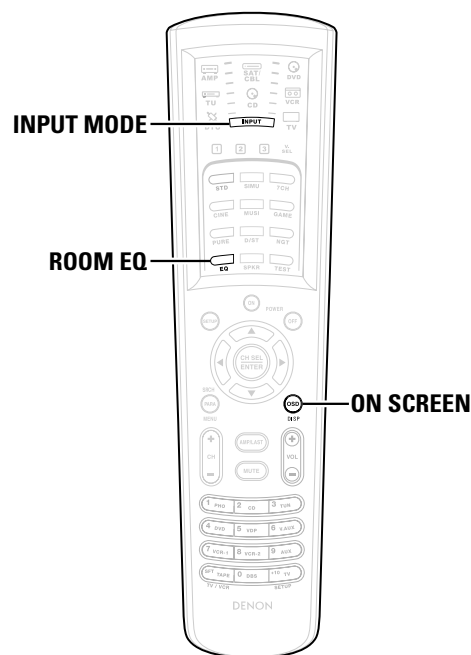
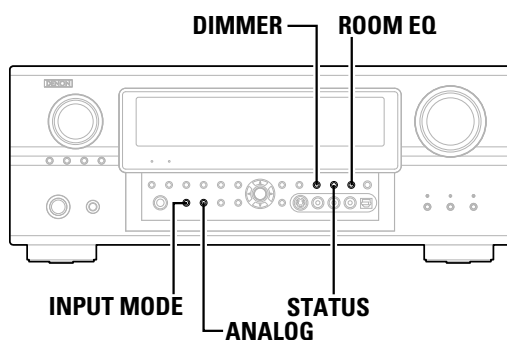
- ※ The surround speakers switch as shown below each time the **SPEAKER** button is pressed.



- ※ This operation is possible when the setting for using both surround speakers A and B is made at "Setting the type of speakers" (☞ page 75).



- When using the pre-out terminals, set to either "A" or "B".



Checking the currently playing program source, etc.

■ On screen display

Press the ON SCREEN button.

- ※ Each time an operation is performed, a description of that operation appears on the display connected to AVR-3806's VIDEO MONITOR OUT terminal. Also, the unit's operating status can be checked during playback.
- ※ Such information as the position of the input selector and the surround settings is output in sequence.

■ Front panel display

Press the STATUS button.

- ※ Descriptions of the unit's operations are also displayed on the front panel display. In addition, the display can be switched to check the unit's operating status while playing a source.

■ Using the dimmer function

Use this to change the brightness of the display.

Press the DIMMER button.

- ※ The display brightness changes in four steps (bright, medium, dim and off).

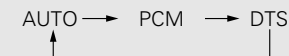
Input mode

The AVR-3806 has an AUTO signal detection mode that automatically identifies the type of incoming audio signals, but is also equipped with a manual mode that can be switched according to the type of input audio signals.

■ Selecting the AUTO, PCM and DTS modes

Press the INPUT MODE button.

- ※ The mode switches as shown below each time the **INPUT MODE** button on the main unit is pressed:

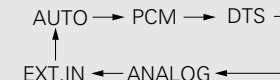


When operating the remote control unit:



(Remote control unit)

- ※ The mode switches as shown below each time the **INPUT MODE** button on the remote control unit is pressed:



AUTO (All auto mode):

In this mode, the types of signals being input to the digital and analog input terminals for the selected input source are detected and the program in the AVR-3806's surround decoder is selected automatically upon playback. This mode can be selected for all input sources other than PHONO and TUNER.

The presence or absence of digital signals is detected, the signals input to the digital input terminals are identified and decoding and playback are performed automatically in DTS, Dolby Digital or PCM (2 channel stereo) format. If no digital signal is being input, the analog input terminals are selected. Use this mode to play Dolby Digital signals.

PCM (exclusive PCM signal playback mode):

Decoding and playback are only performed when PCM signals are being input.

Note that noise may be generated when using this mode to play signals other than PCM signals.

DTS (exclusive DTS signal playback mode):

Decoding and playback are only performed when DTS signals are being input.

■ Selecting the analog mode

Press the **ANALOG** button on the main unit or **INPUT MODE** button on the remote control unit to switch to the analog input.

ANALOG (exclusive analog audio signal playback mode):

The signals input to the analog input terminals are decoded and played.

NOTE:

- Input mode when playing DTS sources:
Noise will be output if DTS-compatible CDs or LDs are played in the "ANALOG" or "PCM" mode.
When playing DTS-compatible sources, be sure to connect the source component to the digital input terminals (OPTICAL/COAXIAL) and set the input mode to "DTS".

■ Input mode display

- Depending on the input signal.
- In the AUTO mode

AUTO	PCM	DTS
ANALOG	EXT.IN	RF
 - In the DIGITAL PCM mode

AUTO	PCM	DTS
ANALOG	EXT.IN	RF
 - In the DIGITAL DTS mode

AUTO	PCM	DTS
ANALOG	EXT.IN	RF
 - In the ANALOG mode

AUTO	PCM	DTS
ANALOG	EXT.IN	RF
 - In the EXT.IN mode

AUTO	PCM	DTS
ANALOG	EXT.IN	RF

■ Input signal display

• DOLBY DIGITAL



Depending on the input signal.

- The "DSD" indicator lights when the DENON LINK have been connected and the DSD signals have been inputted (page 20).

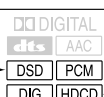
• DTS



Depending on the input signal.

- The "HDCCD" indicator lights when digital signals are being input with a player that supports HDCCD playback.

• PCM



- The "DIG." indicator lights when digital signals are being input properly. If the "DIG." indicator does not light, check whether the digital input component setup (page 63) and connections are correct and whether the component's power is turned on.
- AL24 processing is activated when PCM signals are played while the surround mode is set to PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT or MULTI CH IN.

NOTE:

- The "DIG." indicator will light when playing CD-ROMs containing data other than audio signals, but no sound will be heard.

Room EQ function

The AVR-3806's Auto Setup / Room EQ function offers three correction curves: "Audyssey", "Front", "Flat". The timbre of the speakers can also be adjusted manually using a graphic equalizer.

Details of the different correction curves are described below.

Audyssey:

This adjusts the frequency response of all speakers to correct the effects of room acoustics.

Front:

This adjusts the characteristics of each speaker to the characteristics of the front speakers.

Flat:

This the frequency response of all speakers flat.

This is suitable for multi-channel music reproduction, from discrete music sources such as Dolby Digital 5.1, DTS, DVD-Audio and Super Audio CD.

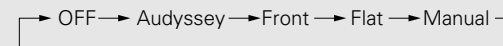
Manual:

Selects the setting value that was set in the Manual EQ Setup. For details of the "Setting the Manual EQ Setup" (page 70, 71).

Press the ROOM EQ button.

- The "Audyssey" is selected, the MultEQ XT indicator lights green.
- The "Front" or "Flat" is selected, the MultEQ XT indicator lights red.

※ The Room EQ switches as follows each time the **ROOM EQ** button is pressed.



※ The MultEQ XT indicator also lights red if the "Speaker Configuration", "Distance", "Channel Level" or "Crossover Frequency" is set manually after conducting the Auto Setup procedure.




- The "Audyssey", "Front" and "Flat" Room EQ curves can be selected after performing the Auto Setup procedure.

Surround


Playing modes for different sources

The AVR-3806 is equipped with many surround modes. We recommend using the surround modes as described below in order to achieve the maximum effect for the specific signal source.

*  is a 6.1-channel/7.1-channel surround mode.

Sources recorded in Dolby Digital EX


DOLBY DIGITAL EX / +PLIIx*1

( page 33)

- This mode is optimized for playing sources recorded in Dolby Digital EX.

Sources recorded in DTS-ES

DTS-ES DSCRT 6.1 / MTRX 6.1, +PLIIx*1

( page 33)


- This is the optimum mode for playing sources recorded in DTS-ES.

Dolby Digital or DTS Surround (5.1 ch sources) 2 ch sources recorded in Dolby Surround

WIDE SCREEN (page 39, 40)

- Effective for 2-channel sources recorded in Dolby Surround or for 7.1-channel playback with 5.1-channel sources.

DOLBY DIGITAL / DOLBY DIGITAL+PLIIx*1 / DTS SURROUND / DTS 96/24 / DTS+PLIIx*1 / DTS+NEO:6

( page 33)

- This mode is optimized for playing 5.1-channel or 7.1-channel music.
- For Dolby Surround recording sources, Dolby Pro LogicII playback is conducted.

Sources recorded in stereo Sources recorded in monaural


PURE DIRECT (page 32)

- By suspending all circuits and processes not required, analog input music playback can be played with optimum quality.

DIRECT / STEREO (page 32)

- Effective for achieving pure playback.
- If there is no need for tone control or distribution of the low frequencies in function of the speaker configuration, select the DIRECT mode to achieve the best sound quality.

DENON Original Surround Modes


( page 39, 40)

- Select these for 7.1-channel playback with sources recorded in stereo or monaural.
- The effects are different for each of the surround modes. Select the one most suited for the source being used.

DTS NEO:6 (page 38)

- This is a surround mode for playing 6.1- or 7.1-channel stereo sources developed by Digital Theater Systems.
- One of two playing modes, MUSIC (for music sources) or CINEMA (for movie sources), can be selected according to your preferences.

DOLBY PRO LOGICIIx*1

( page 36)

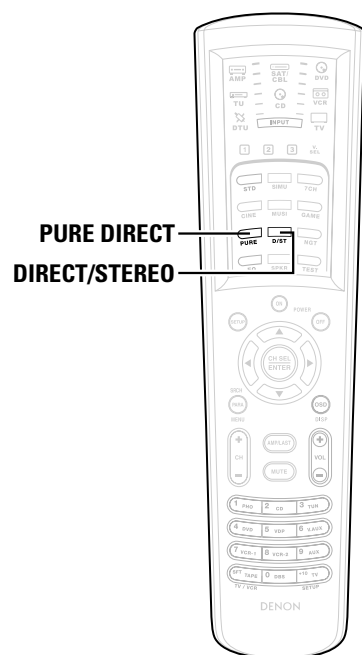
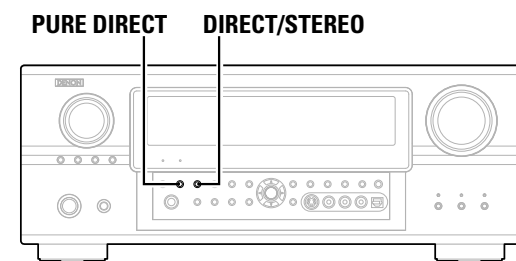
- Developed by Dolby Laboratories, this surround mode provides 7.1 channel surround sound with conventional stereo (2-channel) sources.
- Select CINEMA mode for movie surround soundtracks, MUSIC for music sources, and GAME for 2-channel game box audio sources.



- Though we recommend selecting the surround mode as described above, other surround modes can also be selected.

NOTE:

- Surround modes marked with an asterisk (*1) cannot be used when the surround back speaker is set to "NONE".
- The "+PLIIx Cinema" mode cannot be selected when only one surround back speaker is being used.



Playing audio sources (CDs and DVDs) 2-channel playback modes

- The AVR-3806 is equipped with three 2-channel playback modes exclusively for music.
- Select the mode to suit your tastes.

■ PURE DIRECT mode

This mode reproduces the sound with extremely high quality. When this mode is set, all circuits and processes not required for the selected input source (FL tube, video circuit and tone control, as well as digital circuitry and other unnecessary circuits for analog audio inputs) are automatically turned off so the music signals can be reproduced with high sound quality.

Press the PURE DIRECT button to select the PURE DIRECT mode.

■ DIRECT mode

Use this mode to achieve good quality 2-channel sound. In this mode, the audio signals bypass such circuits as the tone circuit and are transmitted directly, resulting in good quality sound.

Press the DIRECT/STEREO button to select the DIRECT mode.

※ The mode switches as shown below each time the **DIRECT/STEREO** button is pressed.

DIRECT ←→ STEREO

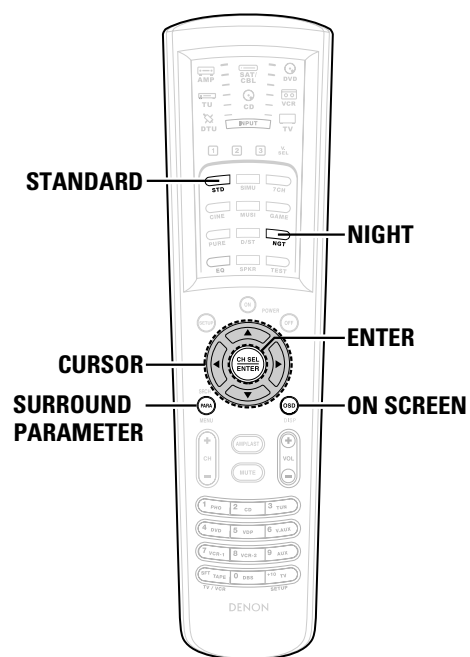
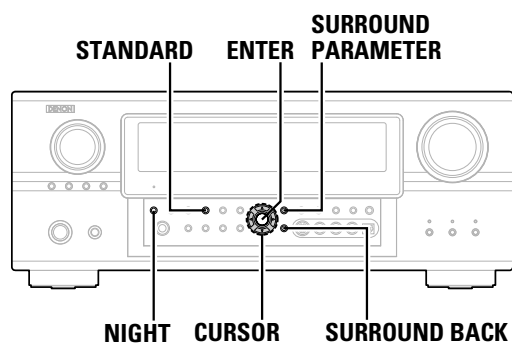
■ STEREO mode

Use this mode to adjust the tone and achieve the desired sound.

Press the DIRECT/STEREO button to select the STEREO mode.




- The system setup function cannot be used when the PURE DIRECT mode is set. To use the system setup function, cancel the PURE DIRECT mode.
- If the HDMI input terminal is selected, video outputs are outputted in the PURE DIRECT mode.
- The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.



Dolby Digital mode and DTS Surround (only with digital input)

1 Press the **STANDARD** button to select the “STANDARD (Dolby/DTS Surround)” mode.

2 Play a program source with the   mark.

- The Dolby Digital indicator lights when playing Dolby Digital sources.
- The DTS indicator lights when playing DTS sources.

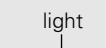


light



light

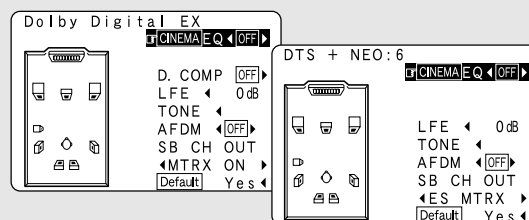
- ※ Press the **SURROUND BACK** button.
Lights when the Surround Back CH is on.



light

3 Press the **SURROUND PARAMETER** button.

- The surround parameter menu is displayed.



4 Press the **CURSOR** Δ or ∇ button to select the parameter.

5 Press the **CURSOR** \triangleleft or \triangleright button to select the setting.

6 Press the **ENTER** or **SURROUND PARAMETER** button to complete the setting.



- When “Default” is selected and the **CURSOR** \triangleleft button is pressed, “CINEMA EQ.” and “D.COMP.” are automatically turned off, “LFE” is reset, and “TONE” is set to the default value.

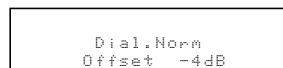
■ Dialogue Normalization

The dialogue normalization function is activated automatically when playing Dolby Digital program sources.

Dialogue normalization is a basic function of Dolby Digital which automatically normalizes the dialog level (standard level) of the signals which are recorded at different levels for different program sources, such as DVD, DTV and other future formats that will use Dolby Digital.

When this function is activated, the following message appears on the main unit's display:

Display



The number indicates the normalization level when the currently playing program is normalized to the standard level.

Night mode

When listening at night or at lower volumes, the night mode improves listenability.

Press the **NIGHT** button to enter the night mode.

- The NIGHT mode indicator lights.



- Canceling night mode:
Press the **NIGHT** button again.
- The night mode only works when playing program sources recorded in Dolby Digital.
- When the night mode is set to "ON", the "D.COMP" surround parameter can not be selected.

■ Checking the input signal

The input signal can be checked by pressing the remote control unit's **ON SCREEN** button (🔍 page 5).

SIGNAL:

Displays the type of signal (DTS, DOLBY DIGITAL, PCM, etc.).

fs:

Displays the input signal's sampling frequency.

FORMAT:

Displays the input signal's number of channels.

"Number of front channels / Number of surround channels / LFE on/off"

"SURROUND" is displayed for 2-channel signal sources recorded in Dolby Surround.

OFFSET:

Displays the dialog normalization offset value.

FLAG:

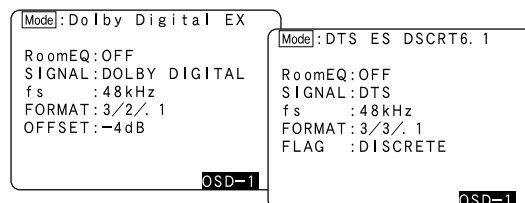
Displays the special identification signal recorded in the input signal (🔍 page 35).

"MATRIX" is displayed when matrix processing is conducted on the surround back channel, "DISCRETE" is displayed when discrete processing is conducted.

Not displayed when no identification signal is recorded.

- In addition, screen information is displayed in the following order when the **ON SCREEN** button is pressed repeatedly:

OSD-1	Audio input signal
OSD-2	Monitor information
OSD-3	Input/output
OSD-4	Auto surround mode
OSD-5	USER MODE 1
OSD-6	USER MODE 2
OSD-7	USER MODE 3
OSD-8~14	Tuner preset stations



NOTE:

- OSD-2:
The monitor's resolution is displayed when an HDMI monitor is connected to the AVR-3806.
- OSD-4:
This is displayed when the auto surround mode is set to "ON" (🔍 page 70) and the input mode is set to "AUTO". It is not displayed when the input mode is set to "ANALOG" or "EXT. IN".

■ Surround parameters ①

CINEMA EQ. (Cinema Equalizer):

The Cinema EQ function gently decreases the level of the extreme high frequencies, compensating for overly-bright sounding motion picture soundtracks. Select this function if the sound from the front speakers is too bright.

This function only works in the Dolby Pro LogicIIx, Dolby Pro Logic, Dolby Digital, DTS Surround, DTS NEO:6 and WIDE SCREEN modes.

D.COMP. (Dynamic Range Compression):

Motion picture soundtracks have tremendous dynamic range (the contrast between very soft and very loud sounds). For listening late at night, or whenever the maximum sound level is lower than usual, the Dynamic Range Compression allows you to hear all of the sounds in the soundtrack (but with reduced dynamic range). (This only works when playing program sources recorded in Dolby Digital or DTS.) Select one of the four parameters ("OFF", "LOW", "MID" (middle) or "HI" (high)). Set to OFF for normal listening.

This parameter is displayed only when playing compatible sources in DTS mode.

LFE (Low Frequency Effect):

This sets the level of the LFE (Low Frequency Effect) sounds included in the source when playing program sources recorded in Dolby Digital, DTS, DVD-audio or Super Audio CD.

Program source and adjustment range:

-10 dB to 0 dB

- ※ When DTS encoded movie software is played, it is recommended that the LFE LEVEL be set to 0 dB for correct DTS playback.
- ※ When DTS encoded music software is played, it is recommended that the LFE LEVEL be set to -10 dB for correct DTS playback.

TONE:

This adjusts the tone control (ⓘ page 41).

This can be set individually for the separate surround mode other than PURE DIRECT and DIRECT mode.

MODE/SB CH OUT:

Select the surround back channel playback method or mode.

(1) Multi channel source

• NON MTRX:

The same signals as those of the surround channels are output from the surround back channels.

• MTRX ON:

The surround channel signals undergo digital matrix processing and are output from the surround back channels.

• SB OFF (OFF):

No signal is played from the surround back channels.

• ES MTRX:

When playing DTS signals, the surround back signals undergo digital matrix processing for playback.

• ES DSCRT:

When a signal identifying the source as a discrete 6.1-channel source is included in the DTS signals, the surround back signals included in the source are played.

• PLIIx Cinema:

Processing is performed with the Cinema mode of the PLIIx decoder and the Surround Back channel is reproduced.

• PLIIx Music:

Processing is performed with the Music mode of the PLIIx decoder and the Surround Back channel is reproduced.

(2) 2ch source

• OFF:

Playback is conducted without using the surround back speaker.

• ON:

Playback is conducted using the surround back speaker.

- ※ This operation can be performed directly pressing the **SURROUND BACK** button.

AFDM (Auto Flag Detect Mode):

• ON:

This function only works with software on which a special identification signal is recorded. This software is scheduled to go on sale in the future.

This is a function for automatically playing in the 6.1-channel mode using the surround back speaker(s) if the software is recorded in Dolby Digital EX or DTS-ES or in the normal 5.1-channel mode without using the surround back speaker(s) when the software is not recorded in Dolby Digital EX or DTS-ES.

When AFDM is set to "ON" and the EX/ES flag is detected automatically, the surround mode is fixed according to the playing program source.

In this case, the "MODE/SB CH OUT" parameter can not be selected on the surround parameter screen.

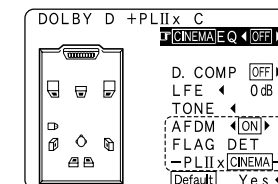
• OFF:

When the identification signal is detected automatically and you would like to select the surround mode freely, set AFDM to "OFF".

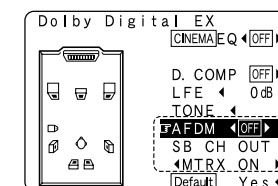
In this case the "MODE/SB CH OUT" parameter can be selected on the surround parameter screen regardless of the playing program source.

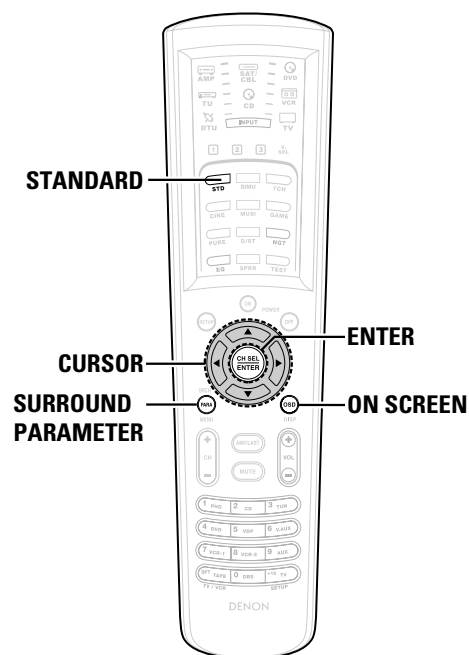
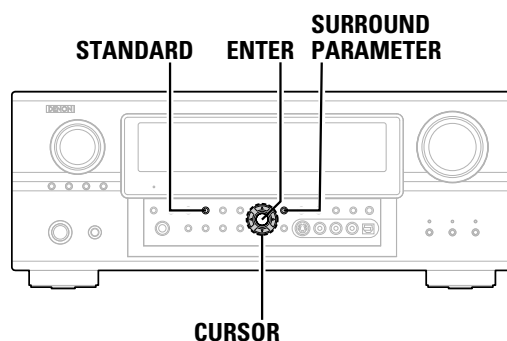
Example: When playing software that has a Dolby Digital EX flag

- ① When AFDM is set to "ON", the surround mode is automatically set to the "DOLBY DIGITAL + PLIIx CINEMA" mode. The surround parameter screen will be displayed.



- ② When you would like to play back with the "Dolby Digital EX" mode, set AFDM to "OFF" and select "MTRX ON" with "SB CH OUT".





Dolby Pro LogicIIx (Pro LogicII) mode

- To play in the PLIIx mode, set "Sp.Back" at the Speaker Configuration setting to "1spkr" or "2spkr".
- To play in the PLIIx mode, set "Surround Back" at the Power Amp Assign setting.

1 Press the **STANDARD** button to select the "Dolby Pro LogicIIx" mode.

※ The mode switches as shown below each time the **STANDARD** button is pressed.

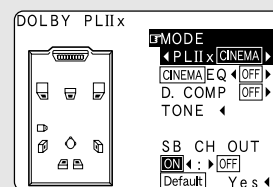
DOLBY PLIIx ↔ DTS NEO:6

2 Play a program source with the **DOLBY SURROUND** mark.

※ For operating instructions, refer to the manuals of the respective components.

3 Press the **SURROUND PARAMETER** button.

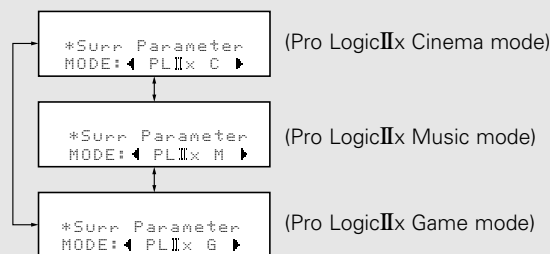
- The surround parameter menu is displayed.



4 Press the **CURSOR** ◀ or ▶ button to select the play mode.

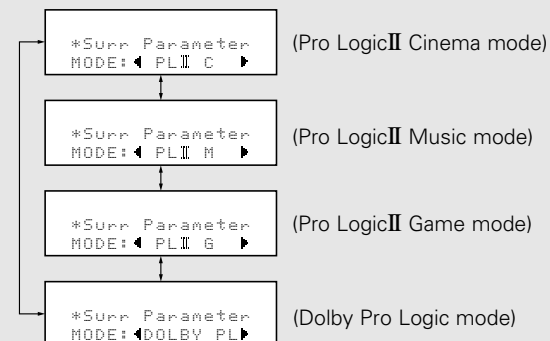
※ When the "SB CH OUT" parameter is set to "ON". (Set "Sp.Back" at the System Setup to "1spkr" or "2spkr").

Display



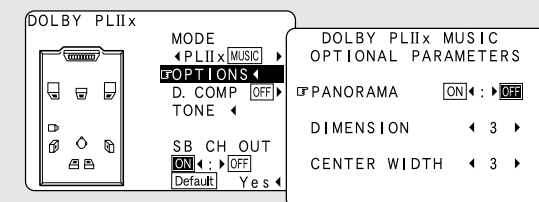
※ When the "SB CH OUT" parameter is set to "OFF". (Set "Sp.Back" at the System Setup to "None").

Display

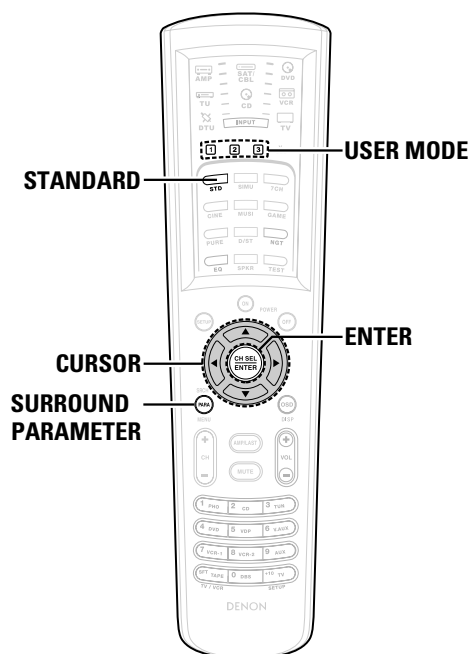
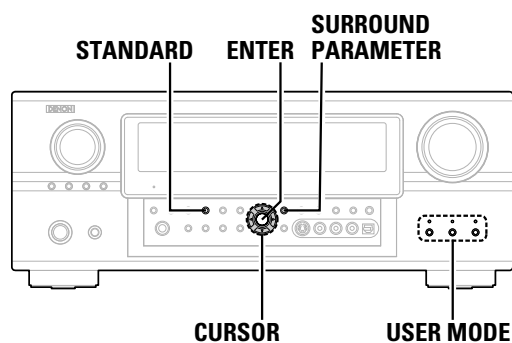


5 Press the **CURSOR** Δ or ▽ button to select the various surround parameters.

Example: DOLBY PLIIx music mode screen



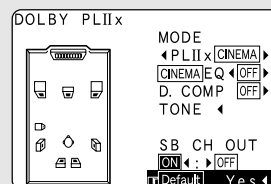
※ When set with the on screen display using the remote control unit while in the MUSIC mode, set the "☐" mark to "OPTIONS ◀" pressing the **CURSOR** Δ or ▽ button, then press the **CURSOR** ◀ button. Press the **ENTER** button to return to the previous screen.



6 Press the **CURSOR** ◀ or ▶ button to adjust the parameters setting.

※ **DEFAULT** setting:

Press the **CURSOR**  button to select “Default Yes ”, then parameters set to default setting.



7 Press the **ENTER** or **SURROUND PARAMETER** button to complete the setting.



- There are four Dolby Surround Pro Logic modes (NORMAL, PHANTOM, WIDE and 3 STEREO). The AVR-3806 sets the mode automatically according to the types of speakers set during the system setup process (▶ page 75).

■ Surround parameters ②

Pro LogicIIx and Pro LogicII Mode:

Select one of the modes ("Cinema", "Music", "Pro Logic" or "Game").

The Cinema mode is for use with stereo television shows and all programs encoded in Dolby Surround.

The Music mode is recommended for stereo music and surround-encoded stereo music sources.

The Pro Logic mode emulates Dolby Laboratories' original Dolby Pro Logic surround decoding, and may provide better results with older, legacy surround-encoded program material.

The Game mode is optimized for computer and/or dedicated game box consoles, that feature stereo analog or digital outputs. It can only be used with 2-channel stereo sources.

PANORAMA:

This mode extends the front stereo image to include the surround speakers for an exciting “wraparound” effect with side wall imaging.

Select "OFF" or "ON".

DIMENSION:

This control gradually adjust the soundfield either towards the front or towards the rear.

The control can be set in 7 steps from 0 to 6.

CENTER WIDTH:

This control adjust the center image so it may be heard only from the center speaker; only from the left/right speakers as a phantom image; or from all three front speakers to varying degrees.

The control can be set in 8 steps from 0 to 7.

DTS NEO:6 mode

Surround playback can be performed for the analog input and digital input 2-channel signals.

1 Press the **STANDARD** button to select the “DTS NEO:6” mode.

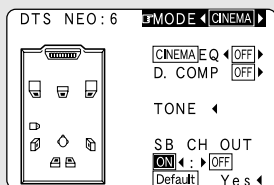
※ The mode switches as shown below each time the **STANDARD** button is pressed.

DOLBY PLIIx ←→ DTS NEO:6

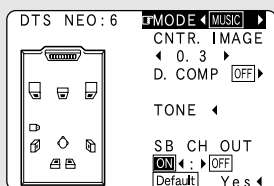
2 Play a program source.

3 Press the **SURROUND PARAMETER** button.

- The surround parameter menu is displayed.



4 Press the **CURSOR** ◀ or ▶ button to select the play mode.



5 Press the **CURSOR** △ or ▽ button to select the various surround parameters.

6 Press the **CURSOR** ◀ or ▶ button to adjust the parameters setting.

7 Press the **ENTER** or **SURROUND PARAMETER** button to complete the setting.



- When “Default” is selected and the **CURSOR** ◀ button is pressed, “MODE” and “TONE” are automatically reset to the default values and “CINEMA EQ.” is set to “OFF”.
- When playing PCM digital signals or analog signals in the DOLBY PRO LOGICII, DOLBY PRO LOGICIIx, DTS NEO:6 modes and the input signal switches to a digital signal encoded in Dolby Digital, the Dolby surround mode switches automatically. When the input signal switches to a DTS signal, the mode automatically switches to DTS surround.

■ Surround parameters ③

DTS NEO:6 Mode:

• Cinema:

This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources.

This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).

• Music:

This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.

CENTER IMAGE (0.0 to 1.0: default 0.3):

The center image parameter for adjusting the expansion of the center channel in the DTS NEO:6 MUSIC mode has been added.

Memory and call-out functions (USER MODE function)

- The AVR-3806 is equipped with a function for storing the selected input source, the auto surround mode and input mode in the memory and selecting these settings when you want to use them.
- Three patterns of settings can be stored in the memory pressing the **USER MODE** buttons.

■ Storing the settings in the memory

1 The following are stored in the memory:

- ① Currently set input source
- ② Currently set auto surround mode
- ③ Currently set input mode

2 Press and hold the **USER MODE** button for at least three seconds which you want to store the settings.

※ In this case, press the button and hold it in until the indicator of the selected **USER MODE** button lights.

■ Calling the settings out

Press the **USER MODE** button at which the settings you want to call out are stored.

- The indicator for the selected **USER MODE** button lights.

※ In this case, press the button and hold it in until the indicator of the selected **USER MODE** button lights.

Basic Operation

DENON original surround modes

The AVR-3806 is equipped with a high performance DSP (Digital Signal Processor) which uses digital signal processing to synthetically recreate the sound field. One of ten preset surround modes can be selected according to the program source and the parameters can be adjusted according to the conditions in the listening room to achieve a more realistic, powerful sound.

Surround modes and their features

1	WIDE SCREEN	Select this to achieve an atmosphere like that of a movie theater with a large screen. In this mode, all signal sources are played in the 7.1-channel mode, including Dolby Surround and Dolby Digital 5.1-channel sources. Effects simulating the multi surround speakers of movie theaters are added to the surround channels.
2	SUPER STADIUM	Select this when watching baseball or soccer programs to achieve a sound as if you were actually at the stadium. This mode provides the longest reverberation signals.
3	ROCK ARENA	Use this mode to achieve the feeling of a live concert in an arena with reflected sounds coming from all directions.
4	JAZZ CLUB	This mode creates the sound field of a live house with a low ceiling and hard walls. This mode gives jazz a very vivid realism.
5	CLASSIC CONCERT	Select this for the sound of a concert hall rich in reverberations.
6	MONO MOVIE (NOTE)	Select this when watching monaural movies for a greater sense of expansion.
7	VIDEO GAME	Use this to enjoy video game sources.
8	MATRIX	Select this to emphasize the sense of expansion for music sources recorded in stereo. Signals consisting of the component difference of the input signals (the component that provides the sense of expansion) processed for delay are output from the surround channel.
9	VIRTUAL	Select this mode to enjoy a virtual sound field, produced from the front 2-channel speakers or headphones.
10	7CH STEREO	The front left channel signals are output to the surround and surround back left channels, the front right channel signals are output to the surround and surround back right channels, and the in-phase component of the left and right channels is output to the center channel. Use this mode to enjoy stereo sound.

※ Depending on the program source being played, the effect may not be very noticeable.

In this case, try other surround modes, without worrying about their names, to create a sound field suited to your tastes.

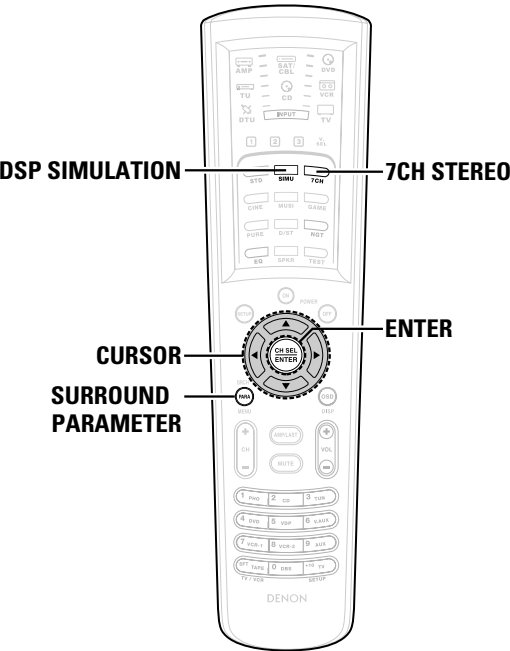
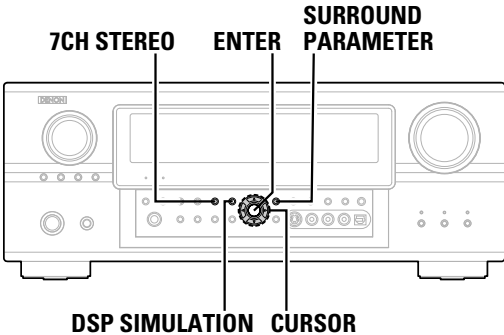
Basic Operation

NOTE: When playing sources recorded in monaural, the sound will be one-sided if signals are only input to one channel (left or right), so input signals to both channels. If you have a source component with only one audio output (monophonic camcorder, etc.) obtain a "Y" adapter cable to split the mono output to two outputs, and connect to the L and R inputs.

Personal memory plus

This set is equipped with a personal memorize function that automatically memorizes the surround modes and input modes selected for the different sources. When the input source is switched, the modes set for that source last time it was used are automatically recalled.

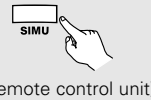
※ The surround parameters, tone control settings and playback level balance for the different output channels are memorized for each surround mode.



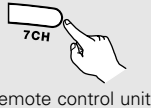
DSP surround simulation

1 Select the surround mode for the input channel.

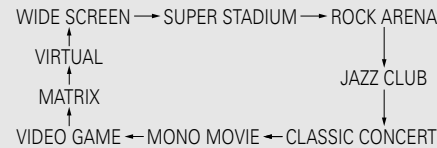
Example: DSP surround simulation mode



Example: 7CH STEREO mode

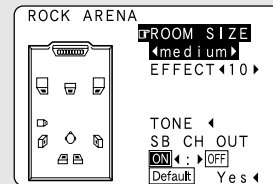


※ The surround mode switches in the following order each time the **DSP SIMULATION** button is pressed:



2 Press the **SURROUND PARAMETER** button.

• The surround parameter menu is displayed.



※ The screen for the selected surround mode appears.

3 Press the **CURSOR** Δ or ∇ button to select the various surround parameters.

4 Press the **CURSOR** \triangleleft or \triangleright button to adjust the parameter settings.

5 Press the **ENTER** or **SURROUND PARAMETER** button to complete the setting.



• The "7CH STEREO" display changes as shown below according to the surround back speaker setting.

SURROUND BACK SPEAKER	DISPLAY
ON	7CH STEREO
OFF	5CH STEREO

- When "Default" is selected and the **CURSOR** \triangleleft button is pressed, "CINEMA EQ." and "D.COMP." are automatically turned off, "ROOM SIZE" is set to "medium", "EFFECT LEVEL" to "10", "DELAY TIME" to "30 ms" and "LFE" to "0 dB".
- The "ROOM SIZE" expresses the expansion effect for the different surround modes in terms of the size of the sound field, not the actual size of the listening room.

■ Surround parameters ④

EFFECT:

This parameter turns the effect signals with multi surround mode speaker effects on and off in the WIDE SCREEN mode. When this parameter is turned off, the SBL and SBR channel signals are equivalent to the SL and SR channels, respectively.

LEVEL:

This parameter sets the strength of the effect signals in the WIDE SCREEN mode. It can be set in 15 steps, from “1” to “15”. Set this to a low level if the positioning or phase of the surround signals sounds unnatural.

SB CH OUT

• ON:

Playback is conducted using the surround back speaker.

• OFF:

Playback is conducted without using the surround back speaker.

NOTE:

This operation can be performed directly pressing the **SURROUND BACK** button on the main unit's panel.

ROOM SIZE:

This sets the size of the sound field.

There are five settings: “small”, “med.s” (medium-small), “medium”, “med.l” (medium-large) and “large”. “small” recreates a small sound field, “large” a large sound field.

EFFECT LEVEL:

This sets the strength of the surround effect.

The level can be set in 15 steps from 1 to 15. Lower the level if the sound seems distorted.

DELAY TIME:

The delay time can be set within the range of 0 to 300 ms only in the matrix mode.

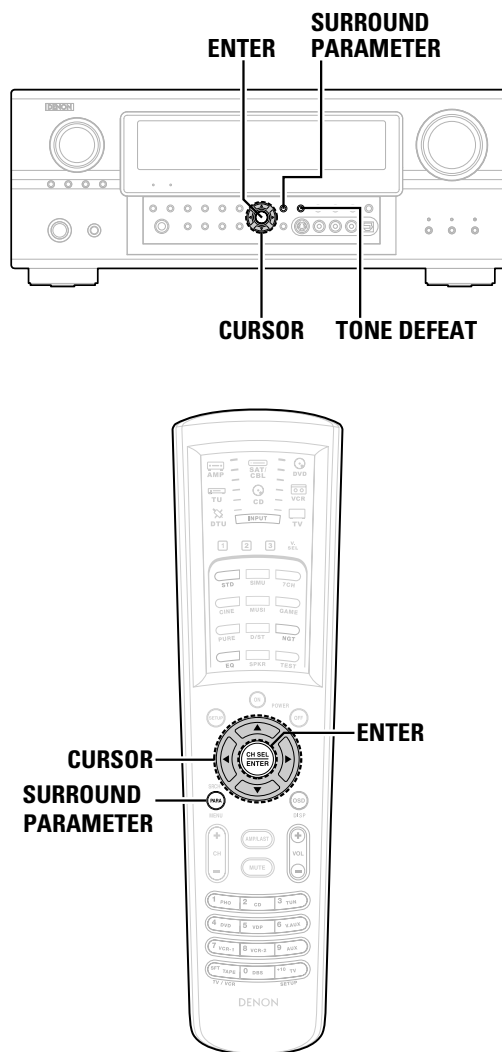
SW ATT:

This is the parameter for reducing the level of the subwoofer channel when playing in the EXT. IN input mode. Depending on the player you are using, the subwoofer channel's playback level may seem too high. If so, set “SW ATT” to “ON”.

For DENON players, use with the default settings (“OFF”).

Subwoofer ON/OFF:

The subwoofer output can be controlled directly.



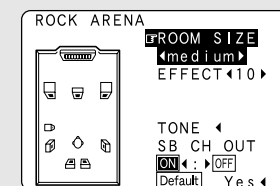
Tone control setting

- Use the tone control setting to adjust the bass and treble as desired.
- The tone control function will not work in the PURE DIRECT or DIRECT mode.

■ Adjusting the tone

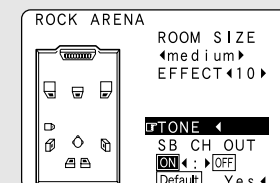
1 Press the **SURROUND PARAMETER** button.

- The surround parameter menu is displayed.



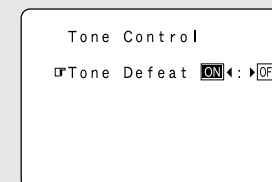
※ The screen selected surround mode appears.

2 Press the **CURSOR** Δ or ∇ button to select the “TONE”.



3 Press the **CURSOR** \triangleleft button.

- Switch to the “Tone Control” screen.



※ The screen selected surround mode appears.

4 Press the **CURSOR** \triangleright button to select the “Tone Defeat OFF”.



5 Press the **CURSOR** \triangle or ∇ button to select the “Bass” or “Treble”.

6 Press the **CURSOR** \triangleleft or \triangleright button to set the level.

- ※ To increase the bass or treble:
The bass or treble sound can be increased up to +6 dB in steps of 1 dB.
- ※ To decrease the bass or treble:
The bass or treble sound can be decreased down to -6 dB in steps of 1 dB.

7 Press the **ENTER** button.

- The surround parameter menu screen reappears.

8 Press the **ENTER** or **SURROUND PARAMETER** button to complete the setting.

■ Tone defeat mode

If you do not want the bass and treble to be adjusted, turn on the tone defeat mode.

Press the **TONE DEFEAT** button to turn on the “Tone Defeat” mode.

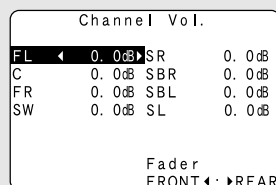
- ※ The signals do not pass through the bass and treble adjustment circuits, providing higher quality sound.

Channel level

You can adjust the channel level either according to the playback sources or to suit your tastes, as described below.

1 Press the **ENTER** button.

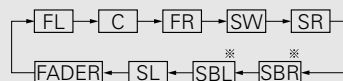
- The “Channel Vol.” screen is displayed.



※ Channels which is not used are not displayed.

2 Press the **CURSOR** \triangle , ∇ or **ENTER** button to select the speaker.

※ The channel switches as shown below each time the **ENTER** button is pressed.



3 Press the **CURSOR** \triangleleft or \triangleright button to adjust the level.

- ※ The adjustment range for the different channels is +12 dB to -12 dB in step of 0.5 dB.
- ※ The sound from the subwoofer can be completely cut by lowering the SW (subwoofer) setting one additional from -12 dB (setting it to “OFF”).



- When the surround back speaker setting is set to “1spkr” for “Speaker Configuration” (page 75), this is set to “SB”.

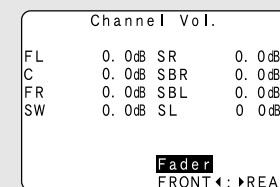
Fader function

This function makes it possible to lower the volume of the front channels (FL, C and FR) or the rear channels (SL, SR, SBL and SBR) together. Use it for example to adjust the balance of the sound from each position when multi-channel music sources are played.

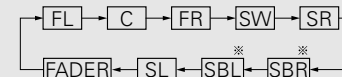
1 Press the **ENTER** button.

- The “Channel Vol.” screen is displayed.

2 Press the **CURSOR** \triangle , ∇ or **ENTER** button, then select “Fader”.

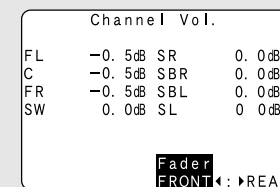


※ The channel switches in the order shown below each time the **ENTER** button is pressed.



3 Press the **CURSOR** \triangleleft button to reduce the volume of the front channels, the **CURSOR** \triangleright button to reduce the volume of the rear channels.

Example: When “FRONT” is selected



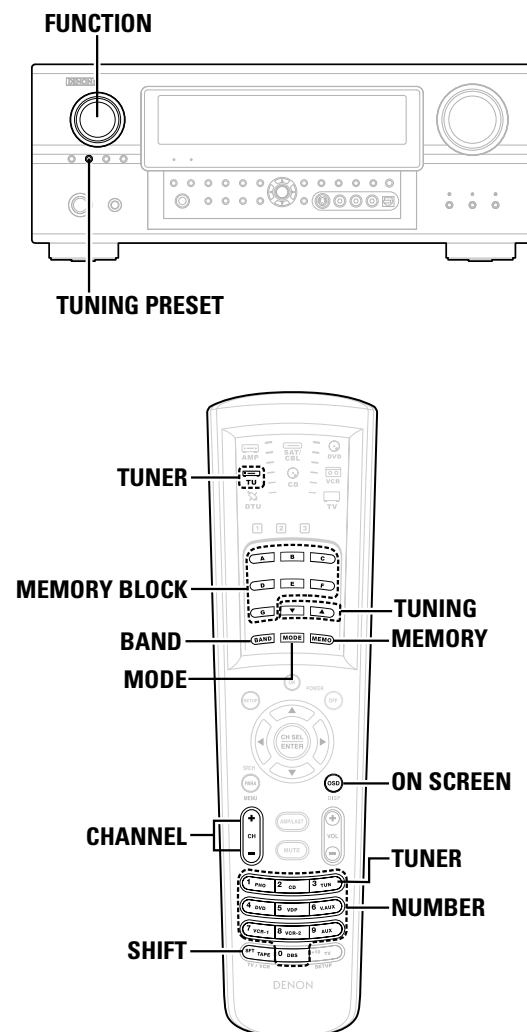
※ The fader function does not affect the subwoofer channel



- The channel whose channel level is adjusted lowest can be faded to -12 dB using the fader function.
- If the channel levels are adjusted separately after adjusting the fader, the fader adjustment values are cleared, so adjust the fader again.

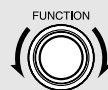
Listening to the radio

Check that the remote control unit is set to AMP or TUNER.



Auto tuning

1 Set the input source to "TUNER".



2 Press the TUNER button on the remote control unit to select the TUNER mode.



3 Watching the display, press the BAND button to select the desired band (AM, FM or XM).

※ When listening to the XM Satellite Radio (page 45).

4 Press the MODE button to set the auto tuning mode.

- "Auto" appears on the display.

5 Press the TUNING button.

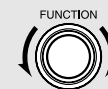
- Automatic searching begins, then stops when a station is tuned in.



- If tuning does not stop at the desired station, use to the "Manual tuning" operation.

Manual tuning

1 Set the input source to "TUNER".



2 Press the TUNER button on the remote control unit to select the TUNER mode.



3 Watching the display, press the BAND button to select the desired band (AM, FM or XM).

※ When listening to the XM Satellite Radio (page 45).

4 Press the MODE button to set the manual tuning mode.

※ Check that the display's "AUTO" indicator turns off.

5 Press the TUNING button to tune in the desired station.

※ The frequency changes continuously when the button is held in.

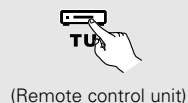


- When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcast is tuned in. At open frequencies, the noise is muted and the "TUNED" and "STEREO" indicators turn off.
- When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off.

Preset memory

1 Use the “Auto tuning” or “Manual tuning” operation to tune in the station to be preset in the memory.

2 Press the **TUNER** button on the remote control unit to select the **TUNER** mode.



3 Press the **MEMORY** button.

4 Press the **MEMORY BLOCK (A to G)** button.

※ The memory block can also be selected by pressing the **SHIFT** button.

5 Press the **CHANNEL** button or **NUMBER (1 to 8)** button to select the desired preset channel.

6 Press the **MEMORY** button again.
• Store the station in the preset memory.



- To preset other channels, repeat steps 3 to 6.
A total of 56 broadcast stations can be preset — 8 stations (channels 1 to 8) in each of blocks A to G.

Checking the preset stations

The preset (broadcast) stations can be checked on the on screen display.

Press the **ON SCREEN** button (in the **AMP** mode) repeatedly until the “Tuner Preset Stations” screen appears on the OSD.

Tuner Preset Stations	
A1FM	87.50MHz
A2FM	89.10MHz
A3FM	98.10MHz
A4FM	107.90MHz
A5FM	90.10MHz
A6FM	90.10MHz
A7FM	90.10MHz
A8FM	90.10MHz

OSD-8

Recalling preset stations

■ **Recalling preset stations from the remote control unit**

1 Select the **MEMORY BLOCK (A to G)**.

2 Watching the display, press the **CHANNEL** button or **NUMBER (1 to 8)** button to select the desired preset channel.

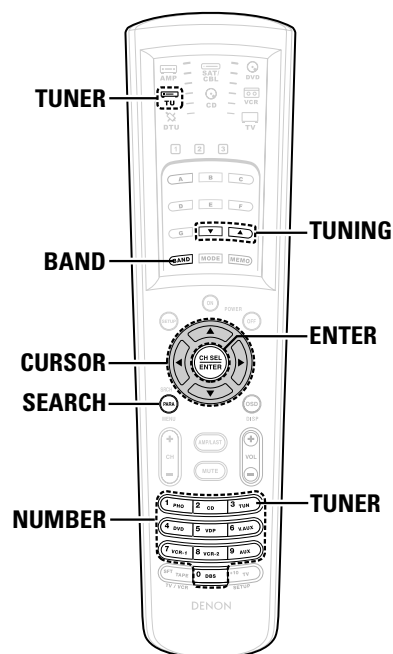
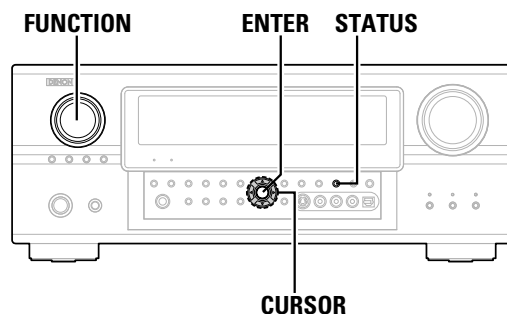
■ **Recalling preset stations from the main unit's panel**

1 Press the **TUNING PRESET** button.

2 Turn the **FUNCTION** knob and select the desired preset channel.

XM Satellite Radio

AVR-3806 is the XM Ready® receiver. You can receive XM Satellite Radio® by connecting to the XM Connect-and-Play™ (sold separately) and subscribing the XM service.



■ Introducing XM Satellite Radio

There's a world of audio listening pleasure beyond AM and FM. XM Satellite Radio. Select from over 150 channels of music, news, sports, comedy, talk, and entertainment. Coast-to-coast coverage. Digital quality sound. With all music channels 100% commercial free.

Questions?: Visit www.xmradio.com.

■ How to Subscribe

Listeners can subscribe by visiting XM on the Web at www.xmradio.com or by calling XM's Listener Care at (800) 967-2346.

Customers should have their Radio ID and credit card ready. The Radio ID can be found by selecting channel 0 on the radio.

■ A Warning Against Reverse Engineering

It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system.

Furthermore, the AMBE® voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in an XM Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into human-readable form. The software is licensed solely for use within this product.

Hardware and required basic monthly subscription sold separately. Premium Channel available at additional monthly cost.

Installation costs and other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only.

All fees and programming subject to change. Subscriptions subject to Customer Agreement available at xmradio.com. Only available in the 48 contiguous United States. ©2005 XM Satellite Radio Inc. All rights reserved. All other trademarks are the property of their respective owners.

Checking the XM signal strength and Radio ID

1 Set the input source to "TUNER".



(Main unit)



(Remote control unit in the AMP mode)

2 Press the TUNER button on the remote control unit to select the TUNER mode.



(Remote control unit)

3 Watching the display, press the BAND button to select the XM mode.

4 Press the STATUS button on the main unit until "SIGNAL" is displayed.

- The display changes as shown below according to the receiving condition.

Display	Condition
GOOD	Signal strength is good
MARGINAL	Signal strength is marginal
WEAK	Signal strength is poor
NO	Loss of the signal

5 Adjust the antenna location until "SIGNAL:GOOD" is displayed.

6 Press the STATUS button until the XM channel (ex.XM001) is displayed.

7 Press the TUNING ▼ button to select channel 0 (XM000).

- The Radio ID is displayed.

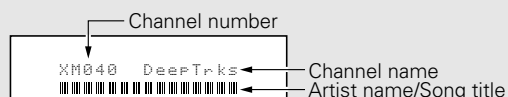


Channel selection

1 Set the input source to “TUNER”.

2 Press the **TUNER** button on the remote control unit to select the **TUNER** mode.

3 Watching the display, press the **BAND** button to select the **XM** mode.



4 Press the **TUNING** ▲ or ▼ button to reach the desired channel.

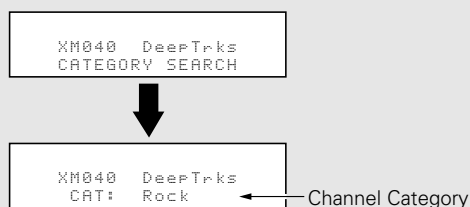
※ The channel changes continuously when you press and hold the **TUNING** button.

※ When the artist name and song title are received, they are displayed.

Category search

1 Press the ◀ or ▶ button in the **XM** mode.

- The current category name is displayed.



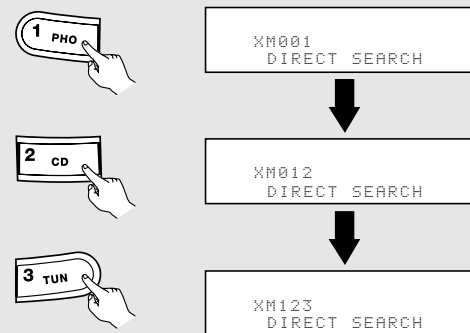
2 Press the **CURSOR** ◀ or ▶ button to select the category, and press the **CURSOR** ▲ or ▼ button to select the channel within the selected category.

Direct access of channels

1 Press the **SEARCH** button in the **XM** mode.

2 Press the **NUMBER** buttons to enter the desired channel.

※ For example, if you want to access channel 123 (ex.XM123) press the Number buttons as shown below.



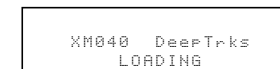
(Remote control unit)

3 Once all number have been input, press the **ENTER** button to change the channel.

※ If the next **NUMBER** button is not pressed within several seconds, the channel automatically switches to the channel number that was input.



- “LOADING” is displayed while receiving the channel or information.



- “UPDATING” is displayed while updating encryption code.



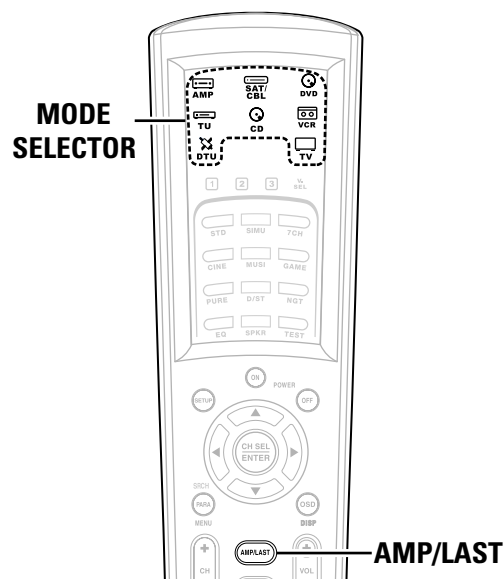
- When the selected channel is not available, “XM- -” is displayed.



- Information on the artist name, song title, category and signal level can be checked using the **STATUS** button on the main unit.
- The XM Satellite Radio channels can be preset in the same way as AM/FM band. Please refer to “Preset memory” and “Recalling preset stations” (page 44).

Advanced Operation

Remote control unit



Operating DENON audio components

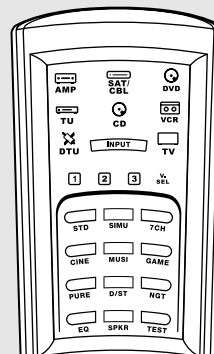
1 Press the **MODE SELECTOR** buttons to select the component you want to operate.

- The icon for the selected mode flashes.

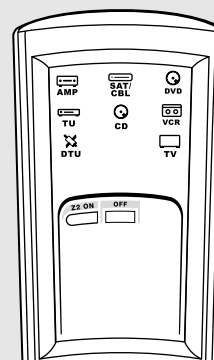
	: AMP, ZONE2, ZONE3 or SYSTEM CALL
	: TUNER
	: DIGITAL TUNER
	: SATELLITE or CABLE
	: CD or CDR
	: DVD or DVDR
	: VCR or TAPE
	: TV

※ This function switches as shown below each time one of the **AMP** button is pressed.

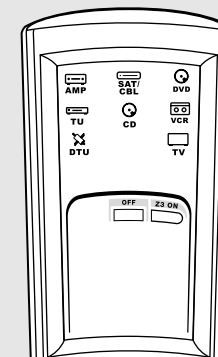
Example:
Select "AMP" mode.



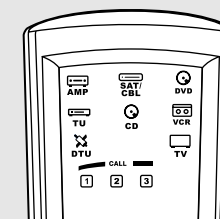
Select "ZONE2" mode.



Select "ZONE3" mode.



Select "SYSTEM CALL" mode.



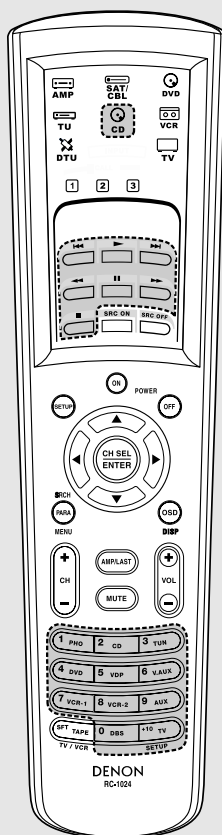
2 Operate the audio component.

- ※ For details, refer to the component's operating instructions.
- ※ It may not be possible to operate some models.



- When a remote control code is sent, the icon for the mode of the device to which that code belongs flashes.
- When the **AMP/LAST** button is pressed, it is possible to switch between the AMP mode (AMP, ZONE2, ZONE3 or SYSTEM CALL) and the last selected non-amplifier universal mode (TU, DTU, SAT/CBL, CD, DVD, VCR or TV). Default state is to toggle AMP to SAT/CBL mode.

1. CD player (CD), CD recorder (CDR) system buttons



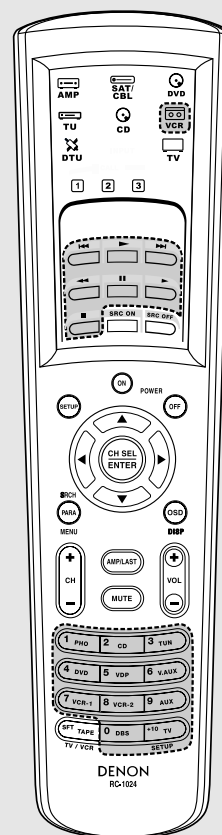
- ◀◀, ▶▶ : Manual search (forward and reverse)
 ■ : Stop
 ▶ : Play
 I◀◀, ▶▶I : Auto search (to beginning of track)
 II : Pause
 0 ~ 9, +10 : Number

※ Default setting = CD

The preset codes of a CDR can be recorded in the CD mode so that the CD recorder can be operated (page 49). It is only possible to set the preset memory for either the CD or CDR.

※ To operate a DENON CDR player, preset "30626" or "31868". To return to operation of a DENON CD player, preset "31867".

2. Tape deck (TAPE) system buttons



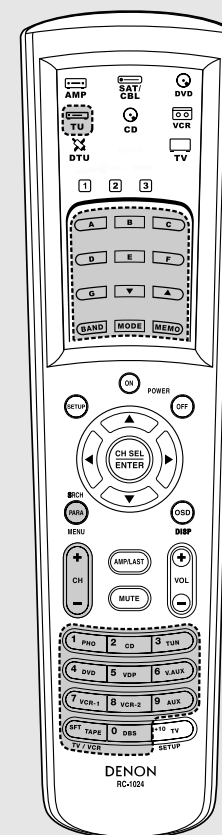
- ◀◀, ▶▶ : Manual search (forward and reverse)
 ■ : Stop
 ▶ : Play
 I◀◀, ▶▶I : Auto search (to beginning of track)
 II : Pause
 0 ~ 9, +10 : Number

※ Default setting = VCR (page 51)

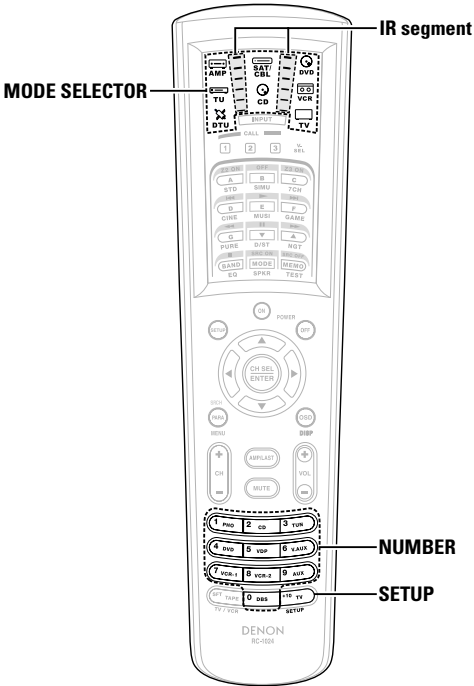
The preset codes of a TAPE can be recorded in the VCR mode so that the tape deck can be operated (page 49). It is only possible to set the preset memory for either the VCR or TAPE.

※ To operate a DENON TAPE, preset "21471".

3. Tuner system buttons



- ▲, ▼ : Tuning up/down
BAND : Switch between AM, FM and XM bands
MODE : Switch between AUTO and MANUAL
MEMO : Preset memory
SRCH : Search
SFT : Switch preset channel range
CH +, - : Preset channel up/down
A ~ G : Preset channel range
1 ~ 8 : Preset channel
SRCH : XM channel direct search
0 ~ 9 : XM channel



Preset memory

The included remote control unit (RC-1024) can be used to operate devices of different brands by registering the preset number corresponding to the brand of your device. For some models the remote control unit or the device may not operate properly. In this case, use the learning function (page 52) to store your device's remote control signals in the included remote control unit.

- 1

Press the **MODE SELECTOR** button for the component you want to preset.

※ Presetting is not possible for the AMP, ZONE2, ZONE3, TUNER and SYSTEM CALL modes.
- 2

Press and hold the **SETUP** button for at least three seconds.

 - The top IR segment blinks twice.

- 3

Referring to the included List of Preset Codes (End of this manual), press the **NUMBER** to input the preset code (a 5-digit number) for the manufacturer of the component whose signals you want to store in the memory.

 - The top IR segment blinks once after each key press.
 - If the remote recognizes the manufacturer's code, the IR segment blinks twice.
- ※ You have 10 seconds to press each digit. If it takes longer than that, the remote "times out" and you must begin again.

NOTE:

- Depending on the model and year of manufacture, this function cannot be used for some models, even if the your device is listed on the included list of preset codes.
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and check it out.

- The preset codes are as follows upon shipment from the factory and after resetting:
- TV, VCRHITACHI
 - CD, DVDDENON
 - SATRCA

DVD preset codes		
DENON Model No.	41470 (default)	40490
	DVD-555	DVD-2910
	DVD-755	DVD-3800
	DVD-900	DVD-3910
	DVD-910	DVD-5900
	DVD-955	DVD-5910
	DVD-1000	DVD-9000
	DVD-1200	DVM-715
	DVD-1500	DVM-1800
	DVD-1710	DVM-1805
	DVD-1910	DVM-1815
	DVD-2200	DVM-2815
	DVD-2800	DVM-4800
	DVD-2800II	
	DVD-2900	
		DVD-800
		DVD-1600
		DVD-2000
		DVD-2500
		DVD-3000
		DVD-3300

Operating a component stored in the preset memory

- 1

Press the **MODE SELECTOR** button for the component you want to operate.
- 2

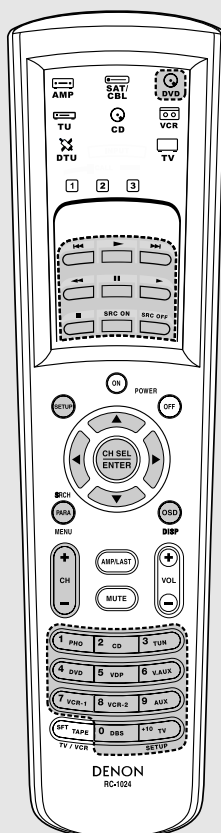
Operate the component.

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

※ Some models cannot be operated with this remote control unit.

-
- For the DVD player remote control buttons, function names may differ according to manufacturer. Compare with the remote control operation of the various components.

1. DVD player (DVD), DVD recorder (DVDR) system buttons

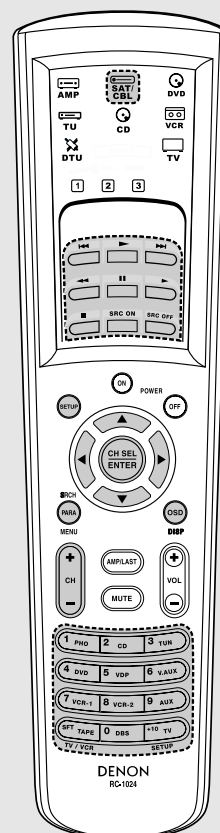


- SRC ON** : Power on
SRC OFF : Power off
◀◀, ▶▶ : Manual search (forward and reverse)
■ : Stop
▶ : Play
◀◀, ▶▶ : Auto search (to beginning of track)
|| : Pause
SETUP : Setup
MENU : Menu
↑, ↓, ←, → : Cursor up, down, left and right
ENTER : Enter
DISP : Display
CH +, - : Switch channels +, -
0 ~ 9, +10 : Number

※ Default setting = DVD

The preset codes of a DVDR can be recorded in the DVD mode so that the DVD recorder can be operated (page 49). It is only possible to set the preset memory for either the DVD or DVDR.

2. Satellite (SAT) tuner, cable (CABLE) system buttons



- SRC ON** : Power on
SRC OFF : Power off
SETUP : Setup
DISP : Guide
MENU : Menu
↑, ↓, ←, → : Cursor up, down, left and right
ENTER : Enter
CH +, - : Switch channels +, -
0 ~ 9, +10 : Number

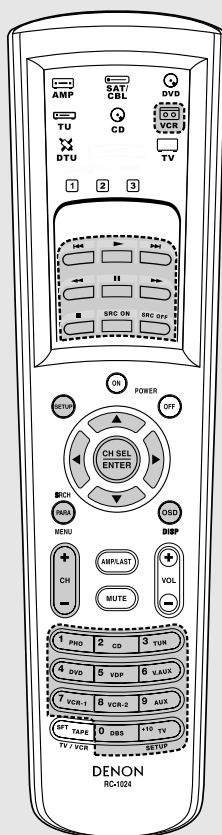
※ When there are codes usable for the preset device, those codes are sent when the buttons below are pressed. If not, by default the DVD codes are punched through. If the punch through setting is made after the preset memory is set, the codes are sent with priority.

- ◀◀, ▶▶** : Manual search (forward and reverse)
■ : Stop
▶ : Play
◀◀, ▶▶ : Auto search (cue)
|| : Pause

※ Default setting = SAT

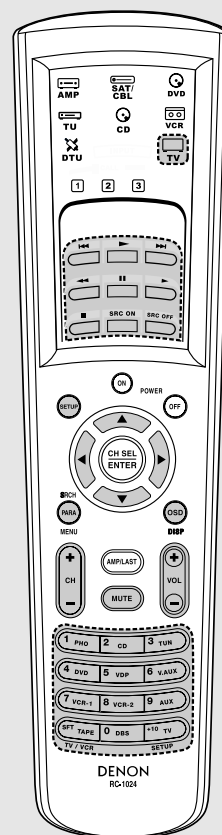
The preset codes of a CABLE can be recorded in the SAT/CBL mode so that the cable device can be operated (page 49). It is only possible to set the preset memory for either the SAT or CBL.

3. Video deck (VCR) system buttons



- SRC ON** : Power on
SRC OFF : Power off
◀◀, ▶▶ : Manual search (forward and reverse)
■ : Stop
▶ : Play
◀◀◀, ▶▶▶ : Auto search (to beginning of track)
|| : Pause
SETUP : Setup
MENU : Menu
↑, ↓, ←, → : Cursor up, down, left and right
ENTER : Enter
DISP : Guide
CH +, - : Switch channels +, -
0 ~ 9, +10 : Number

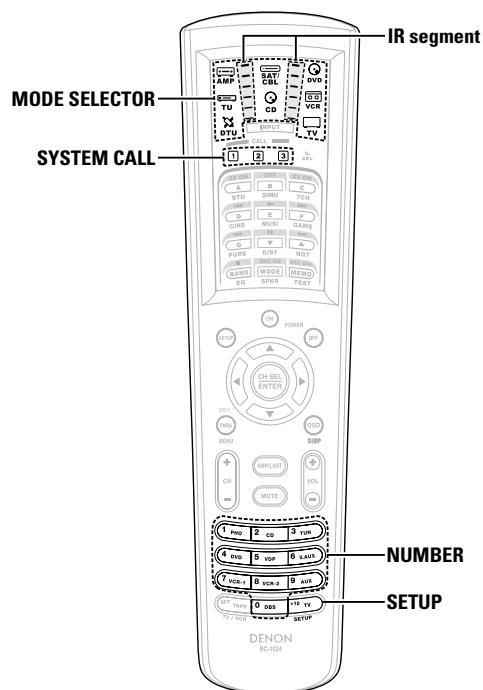
4. Monitor TV (TV), system buttons



- SRC ON** : Power on
SRC OFF : Power off
SETUP : Setup
MENU : Menu
↑, ↓, ←, → : Cursor up, down, left and right
ENTER : Enter
DISP : Guide
CH +, - : Switch channels +, -
0 ~ 9, +10 : Number
TV/VCR : Switch between TV and video player

※ When there are codes usable for the preset device, those codes are sent when the buttons below are pressed. If not, by default the DVD codes are punched through. If the punch through setting is made after the preset memory is set, the codes are sent with priority.

- ◀◀, ▶▶** : Manual search (forward and reverse)
■ : Stop
▶ : Play
◀◀◀, ▶▶▶ : Auto search (cue)
|| : Pause



Learning function

If an AV component is not a DENON product, or if it cannot be operated via codes provided in the AVR-3806 remote control's internal preset memory, or if its codes cannot be successfully learned by the AVR-3806 remote control, then you should use the remote control that was supplied with that AV component to operate the component.

1 Press and hold the **SETUP** button for at least three seconds.

- The IR segment blinks twice.

2 Press the **9, 7, 5** button (9 → 7 → 5) to select Learning setup.

- The IR segment blinks twice, indicating the remote is in Learning set up mode.

3 Press the **MODE SELECTOR** button for the component you want to learned.

- ※ Learning is not possible for the AMP, ZONE2, ZONE3 and SYSTEM CALL modes.

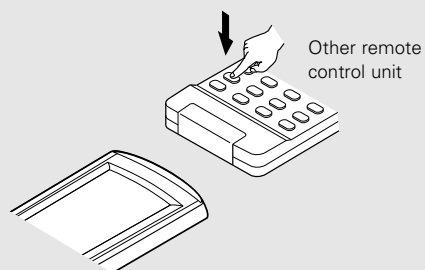
4 Press the button that you wish to be learned.

- The display will go off and the unit will enter the learning standby mode.

- ※ If a button that cannot be "learned" is pressed, the IR segment lights and the learning setup mode is cancelled.
- ※ The **AMP/LAST** button cannot be "learned".

5 Point the remote control units directly at each other and press and hold in the button on the other remote control unit which you want to "learn".

- The display turns on again and the IR segment blinks twice to indicate that the code is successfully captured.

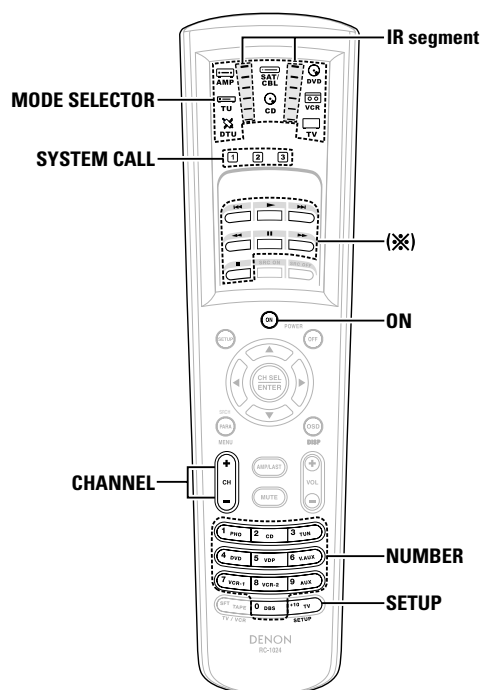


- ※ Other keys can be "learned" by repeating steps 4 and 5.
- ※ The mode can be switched by pressing a **MODE SELECTOR** button.
- ※ If the IR segment displays one long flash, a leaning error has occurred. Try repeating this step again until a successful capture occurs.

6 Press and hold the **SETUP** button for at least three seconds to exit programming.



- To cancel the learning setup mode, press the **SETUP** button for at least three seconds.
- Do not try to learn anything to the **SETUP** button.



System call

The accessories remote control unit is equipped with "system call" function allowing a series of remote control signals to be transmitted by pressing a single button.

This function can be used for example to turn on the amplifier's power, select the input source, turn on the monitor TV's power, turn on the source component's power and set the source to the play mode, all at the touch of a single button.

■ System call buttons

- Up to 32 signals each can be stored at the **SYSTEM CALL 1 ~ 3** buttons.
- The System Call function can be used in the SYSTEM CALL mode.

■ Storing system call signals

1 Press and hold the **SETUP** button for at least three seconds.

- The IR segment blinks twice.

2 Press the **9, 7, 8** button (9 → 7 → 8) to select system call setting.

- The IR segment blinks twice.

3 Press the **SYSTEM CALL** button (1 to 3) you want to register the system call.

4 Press the button you want to register.

- The IR segment blinks once after each key press.

※ The mode can be switched by pressing a **MODE SELECTOR** button.

5 Repeat steps 4 to register the desired buttons.

※ Up to 32 signals each can be stored at the SYSTEM CALL 1 ~ 3.

6 Press and hold the **SETUP** button for at least three seconds to register the system call.

- The IR segment blinks twice.

NOTE:

- The remote control signals of the buttons pressed while registering the system call signals are emitted, so be careful not to operate the components accidentally (cover the remote sensors, for example).

■ Using the system call function

1 Press the **AMP** button to select **SYSTEM CALL** mode.

2 Press the **SYSTEM CALL** button (1 to 3) at which the system call signals have been stored.

- The stored signals are transmitted successively.

Punch through

Buttons used in the CD, DVD, and VCR modes can be assigned to the buttons which are not normally used in the TV and SAT/CBL modes.

For example, when the DVD mode is set to the punch through mode in the TV mode, the DVD mode's PLAY (▶), STOP (■), MANUAL SEARCH (◀◀, ▶▶), AUTO SEARCH (◀◀◀, ▶▶▶) and PAUSE (||) button's signals are sent in the TV mode. — (※)

1 Press and hold the SETUP button for at least three seconds.

- The IR segment blinks twice.

2 Press the 9, 8, 4 button (9 → 8 → 4) to select punch through setting.

- The IR segment blinks twice.

3 Select the MODE SELECTOR button (CD, DVD or VCR) you want to punch through.**4 Press the button you want to punch through (▶, ■, ◀◀, ▶▶, ◀◀◀, ▶▶▶ or ||).****5 Repeat step 4.****6 Press the MODE SELECTOR button(TV or SAT/CBL) for which you want to set the punch through.****7 Press and hold the SETUP button for at least three seconds.**

- The IR segment blinks twice.

Setting the back light's lighting time**1 Press and hold the SETUP button for at least three seconds.**

- The IR segment blinks twice.

2 Press the 9, 7, 3 button (9 → 7 → 3) to select Light setup.

- The IR segment blinks twice.

3 Press the NUMBER button (1 to 5) you want to adjust the lighting time (5 sec ~ 25 sec).**■ Lighting time**

- 1 : 5 sec
- 2 : 10 sec (factory default)
- 3 : 15 sec
- 4 : 20 sec
- 5 : 25 sec

- The IR segment blinks twice as confirmation.

Setting the ambient light sensor

The included remote control unit (RC-1024) has the ambient light sensor which allows the EL display brightness to automatically adjust depending on how light or dark the amount of incandescent light in the room is. Default state of the ambient light sensor is "OFF" (disable).

1 Press and hold the SETUP button for at least three seconds.

- The IR segment blinks twice.

2 Press the 9, 7, 9 button (9 → 7 → 9).

- The IR segment blinks twice.

3 Press the ON button.

- The IR segment blinks two or four times.

※ Two blinks indicates that ambient light feature was disabled, and is now enabled. Four blinks indicates that ambient light feature was enabled, and is now disabled.



- If you want to set the brightness of the display manually, set to "OFF" (default).

Setting the brightness

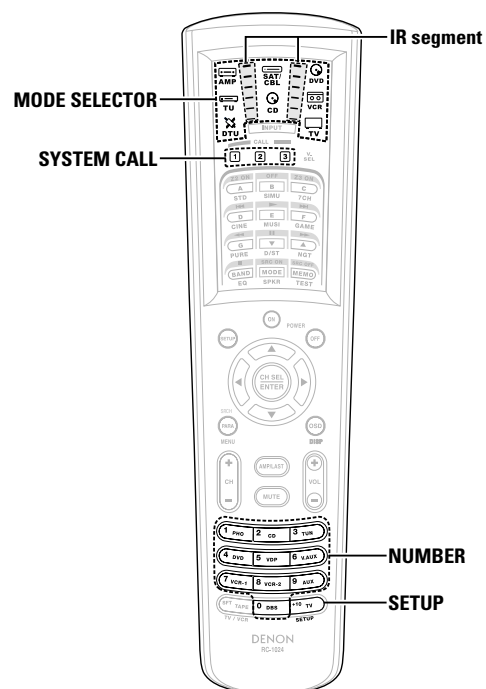
- The brightness of the display can be adjusted in 5 levels.
- The default brightness setting is level3 (level 5 = brightest).

1 Press and hold the SETUP button for at least three seconds.

- The IR segment blinks twice.

**2 For 1 brightness step increase:
-1 Press the CHANNEL + button.****2 For 1 brightness step decrease:
-2 Press the CHANNEL - button.****3 Press and hold the SETUP button to exit programing.**

- The IR segment twice as confirmation.



Resetting

■ Resetting the single learned button

- 1** Press and hold the **SETUP** button for at least three seconds.
 - The IR segment blinks twice.
- 2** Press the **9, 7, 6** button (9 → 7 → 6).
 - The IR segment blinks twice.
- 3** Press the **MODE SELECTOR** button.
- 4** Press the learned button you want to reset twice.
 - The IR segment blinks twice.

※ Other key can be deleted by repeating steps 1 to 4.

■ Resetting all learned buttons

- 1** Press and hold the **SETUP** button for at least three seconds.
 - The IR segment blinks twice.
- 2** Press the **9, 7, 6** button (9 → 7 → 6).
 - The IR segment blinks twice.
- 3** Press the **MODE SELECTOR** button you want to reset twice.
 - The IR segment blinks twice.

■ Resetting the system call buttons

- 1** Press and hold the **SETUP** button for at least three seconds.
 - The IR segment blinks twice.
- 2** Press the **9, 7, 8** button (9 → 7 → 8).
 - The IR segment blinks twice.
- 3** Press the **SYSTEM CALL** button (1 to 3) you want to reset.
- 4** Press and hold the **SETUP** button for at least three seconds to clear the system call.
 - The IR segment blinks twice.

■ Resetting the punch through setting

- 1** Press the **MODE SELECTOR** button (TV or SAT / CBL) you want to reset.
- 2** Press and hold the **SETUP** button for at least three seconds.
 - The IR segment blinks twice.
- 3** Press the **9, 8, 4** button (9→8→4) to select a setting.
 - The IR segment blinks twice.
- 4** Press and hold the **SETUP** button for at least three seconds to reset the punch through setting.
 - The IR segment blinks twice.

■ All reset function

- 1** Press and hold the **SETUP** button for at least three seconds.
 - The IR segment blinks twice.
- 2** Press the **9, 8, 1** button (9 → 8 → 1).
 - The IR segment blinks four times.
 - Clear the entire system memory, which will restore the remote control unit to the factory default settings.

※ Only use this if you wish to clear all customized settings and memories and restore the unit to its out-of-the-box factory default settings.

Multi zone music entertainment system

- When the outputs of the “ZONE2 (ZONE3)” OUT terminals are wired and connected to power amplifiers installed in other rooms, different sources can be played in rooms other than the MAIN ZONE in which this unit and the playback devices are installed. (Refer to ZONE2 (ZONE3) on the diagram below.)
- Settings can be made at “Power Amp Assign” in the “System Setup Menu” so that the same source as the ZONE2 (ZONE3) pre-out terminals can be played from the speakers connected to the ZONE2 (ZONE3) speaker terminals (page 72).
- When a sold separately room-to-room remote control unit (DENON RC-616, 617 or 618) is wired and connected between the MAIN ZONE and ZONE2 (ZONE3), the remote-controllable devices in the MAIN ZONE can be controlled from ZONE2 (ZONE3) using the remote control unit.
- ※ To control playback devices other than the ones above, either use that device’s remote control unit or preset a separately sold programmable remote control unit.



- For instructions on installation and operation of separately sold devices, refer to the devices’ operating instructions.

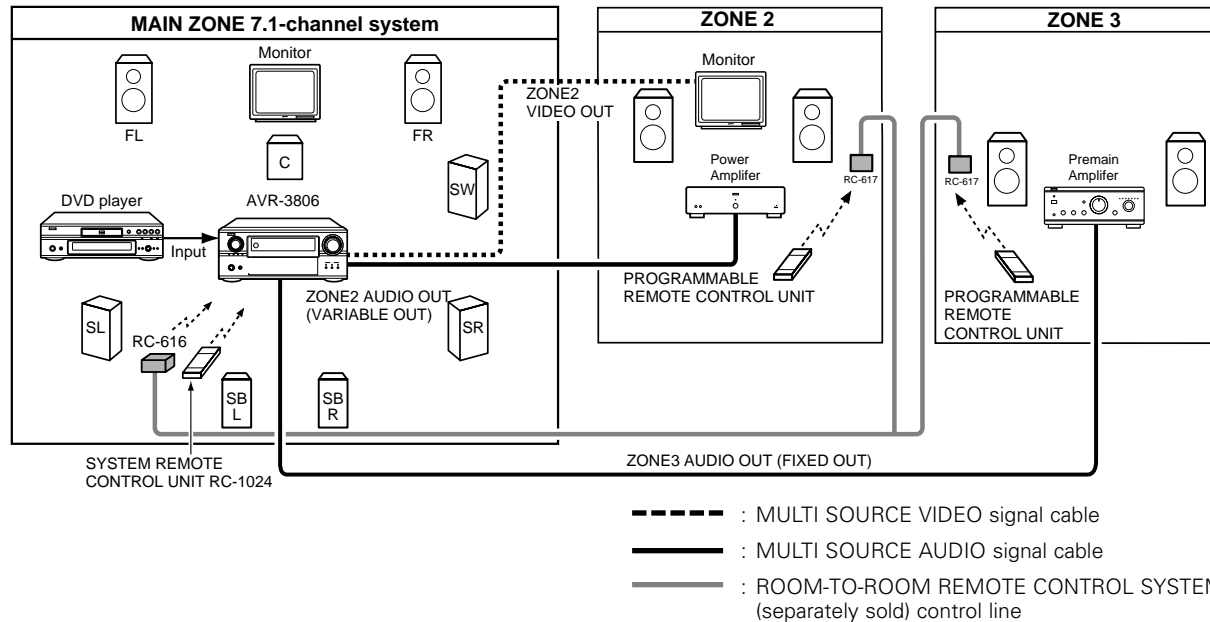
Multi-zone playback using the ZONE2 and ZONE3 PREOUT terminals

■ When using the power amplifier as the MAIN ZONE output

- The AVR-3806 is equipped with pre-out terminals for which the volume is adjustable and video output terminals (composite and S-Video) as the ZONE2 output terminals, and fixed output level as the ZONE3 output terminals.

[System configuration and connections example]

Using external amplifier.



※ Refer to “Connections” (page 24).

Multi-zone playback using the SPEAKER terminals

■ When using the SURROUND BACK amplifier as the ZONE2/ZONE3 output

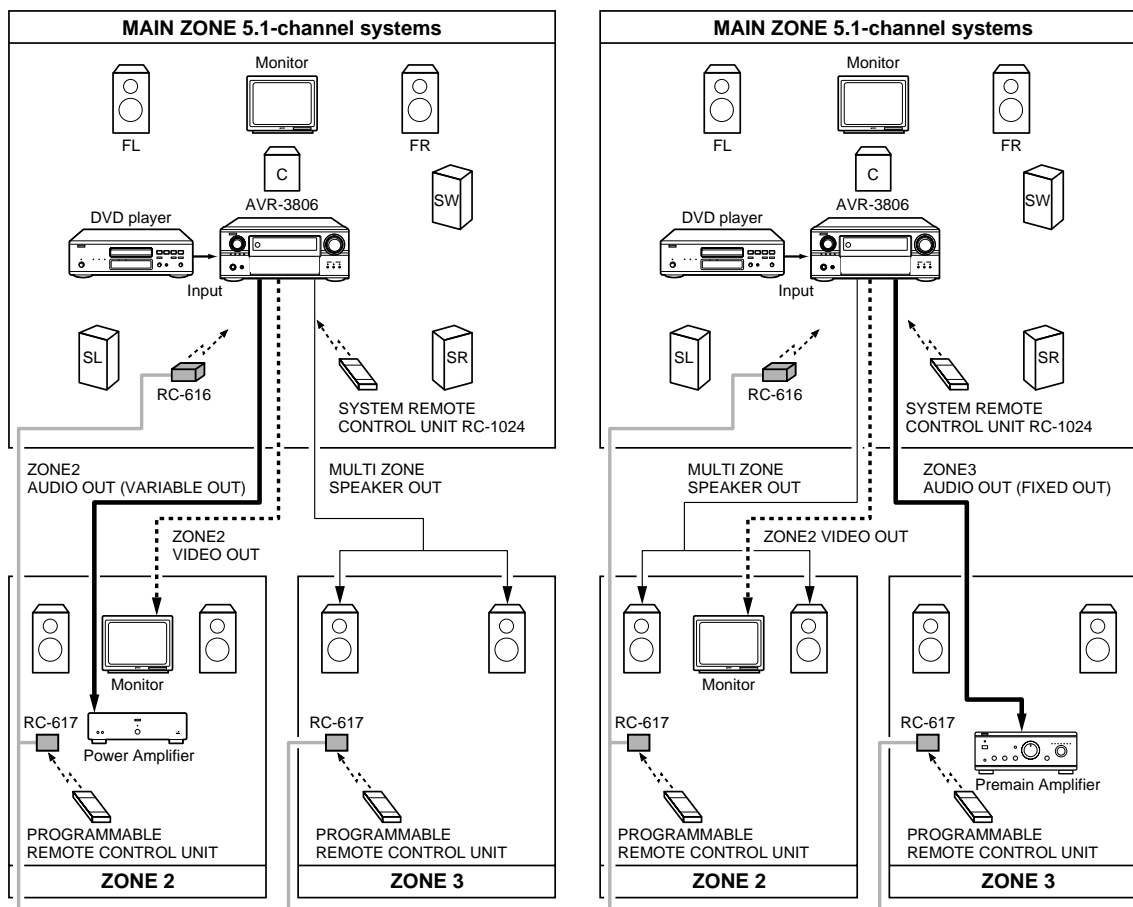
- When the surround back's power amplifier is assigned to the ZONE2 or ZONE3 output channel at "Power Amp Assign" in the "System Setup Menu", the surround back speaker terminals can be used as the ZONE2 or ZONE3 speaker out terminals (page 72).

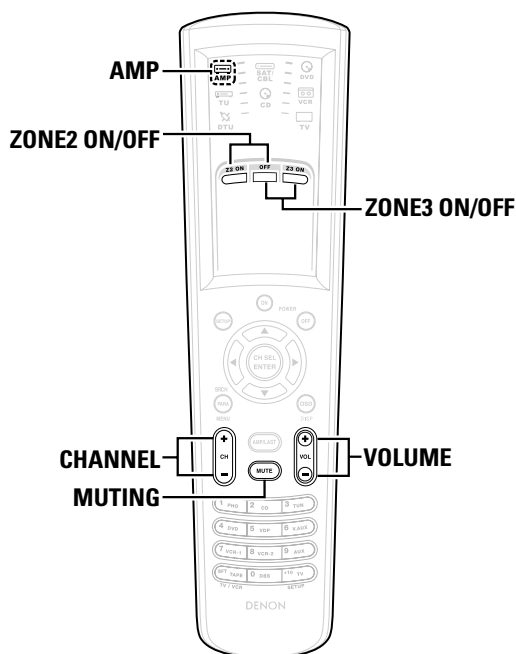
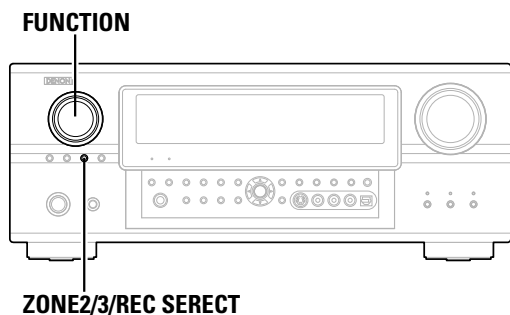
[System configuration and connections example]

Using external amplifier as the ZONE2 and using this AVR-3806 internal amplifier as the ZONE3.

[System configuration and connections example]

Using external amplifier as the ZONE3 and using this AVR-3806 internal amplifier as the ZONE2.





Outputting a program source to amplifier, etc., in a ZONE2 room (ZONE2 SELECT mode)

1 Press the **ZONE2/3/REC SELECT** button to display the “ZONE2 SOURCE” on the display.

- The MULTI indicator lights.

※ The display switches as follows each time the button is pressed.

ZONE2 ←→ ZONE3
(RECOUT)

2 With “ZONE2 SOURCE” displayed, turn the **FUNCTION** knob to select the source you want to output appears on the display.

3 Start playing the source to be output.

※ For operating instructions, refer to the manuals of the respective components.

Outputting a program source to amplifier, etc., in a ZONE3 room (ZONE3 SELECT mode)

1 Press the **ZONE2/3/REC SELECT** button to display the “ZONE3 SOURCE” on the display.

2 With “ZONE3 SOURCE” displayed, turn the **FUNCTION** knob to select the source you want to output appears on the display.

3 Start playing the source to be output.

※ For operating instructions, refer to the manuals of the respective components.



- The signals of the source selected in the ZONE2 mode are also output from the VCR-1, VCR-2 and CDR/TAPE recording output terminals.
- Digital signals are not output from the ZONE2 and ZONE3 audio output terminals.
- About the MULTI ZONE connections (page 56, 57).

Remote control unit operations during multi-source playback

1 Select the zone which you want to operate pressing the **AMP** button.

2 Press the **ZONE2 (ZONE3) ON** button to turn on the zone power.

※ Press the **OFF** button to turn off the zone power.

3 Select the input source you wish to output.

※ When the input source is set to TUNER, the preset channel can be selected using the **CHANNEL +** and **-** buttons on the remote control unit.

4 The volume of the outputs of the different zones can be adjusted with the **VOLUME** button on the remote control unit.

※ The output level can be controlled only if the zone volume level is set “variable” at “Volume Control” in the “System Setup Menu” (page 72, 73).

※ DEFAULT VOLUME SETTING

ZONE2 : -40 dB

ZONE3 : -40 dB

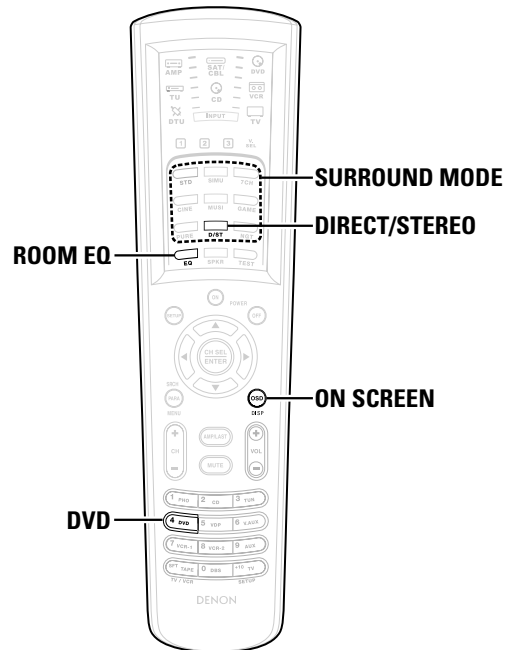
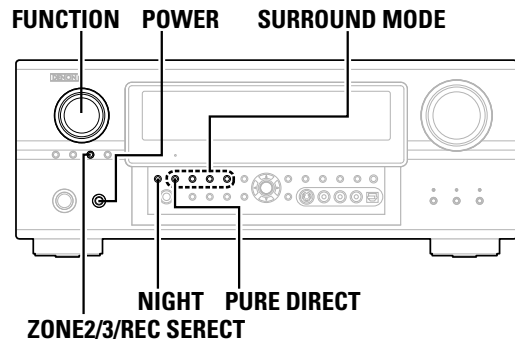
※ The zone volume can be adjusted within the range of -70 to 18 dB, in steps of 1 dB.

※ The ZONE3 volume can be adjusted only when “ZONE3” is selected at “Power Amp Assign” in the “System Setup Menu” (page 72).



- Press the **MUTING** button to mute the audio temporarily. The muting level is same as set with “Volume Control”.
- Cancelling muting mode:
Press the **MUTING** button again, or press the **VOLUME** button on the remote control unit.

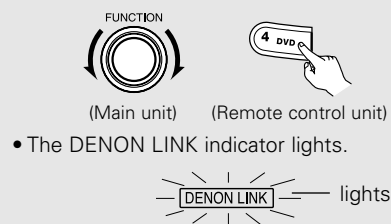
Other function



Playing Super Audio CDs with DENON LINK

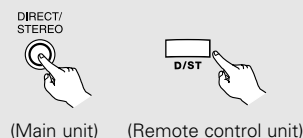
1 Select the input source to which DENON LINK was assigned at the "Digital In Assign" (page 63) in the system setup.

Example: DVD



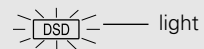
2 Select the surround mode.

Example: DIRECT



3 Start playback on the selected component.

• The DSD indicator lights.

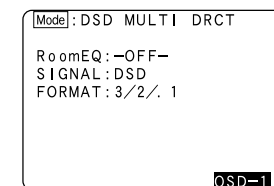


- ※ For operating instructions, refer to the component's manual.
- ※ "DSD DIRECT" is shown on the display when playing DSD 2-channel signals in the DIRECT mode. "DSD MULTI DIRECT" is displayed when playing DSD multi-channel signals in the DIRECT mode (SB CH OUT "OFF").

When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted into analog signals. When playing in other surround modes, the DSD signals are first converted into PCM signals. The input signal and playing status can be checked by pressing the **ON SCREEN** button on the remote control unit.

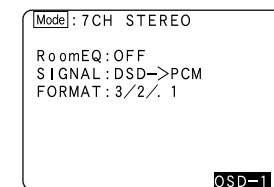
Example:

When DSD multi-channel signals are played in the DIRECT mode



Example:

When DSD multi-channel signals are played in the 7CH STEREO mode



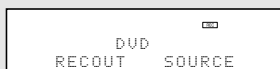
Multi-source recording / playback

■ **Playing one source while recording another (REC OUT mode)**

1 Press the **ZONE2/3/REC SELECT** button until “ZONE2 SOURCE” appears on the display.

2 With “ZONE2 SOURCE” displayed, turn the **FUNCTION** knob until “RECOUT SOURCE” appears on the display.

- The “REC” indicator lights.



3 With “RECOUT SOURCE” displayed, turn the **FUNCTION** knob to select the source you wish to record.

4 Set the recording mode.

- ※ For operating instructions, refer to the manual of the component on which you want to record.



- To cancel, turn the **FUNCTION** knob and select “SOURCE”.
- Recording sources other than digital inputs selected in the REC OUT mode are also output from the ZONE2 preout terminals.
- Digital signals are not output from the analog REC OUT terminals.
- When the REC OUT mode is selected, the **ZONE2** button on the remote control unit cannot be operated.

Last function memory

- This unit is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off. This function eliminates the need to perform complicated resetting when the power is switched on.
- The unit is also equipped with a back-up memory. This function provides approximately one week of memory storage from when the main unit's power switch is off and with the power supply cord disconnected.

Initialization of the microprocessor

- In very rare instances, the AVR-3806 internal microprocessor might lock up, or otherwise cause mis-operation. This might be caused due to an AC line surge or line spike noise, or by static electric discharge on or nearby the unit, or to connected components. If the condition cannot be corrected by powering off the unit, including disconnection of the power supply cord for a period of ten minutes and subsequent re-connection, then the unit may have to be re-initialized. Doing so will restore the microprocessor to its original out-of-the-box state, with all custom memories and settings erased, and the original factory default settings restored. Only use this procedure if you are sure that the microprocessor requires re-initialization.

1 Switch off the unit using the main unit's **POWER** switch.

2 Hold the following **PURE DIRECT** button and **NIGHT** button, and turn the main unit's **POWER** switch on.

3 Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.

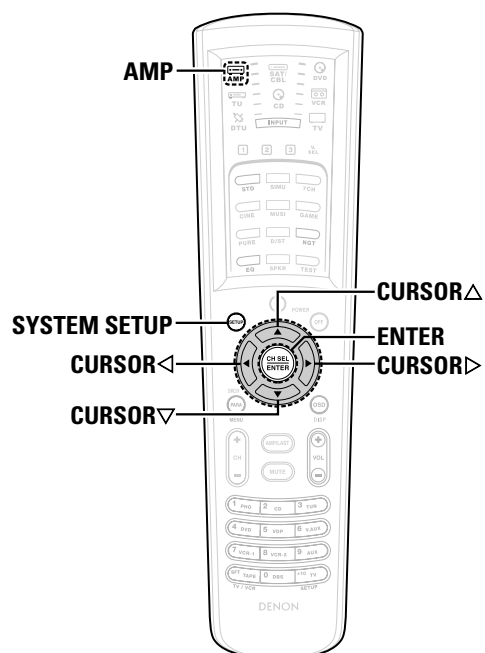
- The microprocessor will be initialized.



- If step 3 does not work, start over from step 1.
- If the microprocessor has been reset, all the settings are reset to the default values (the values set upon shipment from the factory).

Navigating through the System Setup Menu

A line drawing of the front panel of a Pioneer hi-fi system, including a turntable, tuner, and amplifier sections. Four callout lines point to specific buttons: 'CURSOR△' points to the top of a central circular button; 'CURSOR▽' points to the bottom of the same button; 'ENTER' points to a small rectangular button to the right of the circular one; and 'SYSTEM SETUP' points to a small rectangular button to the left of the circular one.



- 1 Press the **AMP** button on the remote control unit.
- 2 Press the **SETUP** button to display “System Setup Menu”.
Press the **CURSOR** \triangle or ∇ button to select the menu, then press the **ENTER** button.
- 3 Press the **ENTER** button to enter the selected menu.
- 4 To change a setting, first select it pressing the **CURSOR** \triangle or ∇ button, and then change the setting pressing the **CURSOR** \triangleleft or \triangleright button.
- 5 Press the **ENTER** button to set the new settings.
- 6 Press the **SETUP** button to return “System Setup Menu”, and again to return the main screen.

2 **System Setup Menu**

- 1. Auto Setup/Room EQ
- 2. Speaker Setup
- ▣ 3. Audio Input Setup
- 4. Video Setup
- 5. Advanced Playback
- 6. Option Setup

Exit

```

3
*System Setup
Audio In Setup

```

- 3** 3. Audio Input Setup
1. Digital In Assign
2. EXT. IN Setup
3. Input Function Lev.
4. Function Rename
5. Tuner Presets
- Exit

```

3.1
*Audio In Setup
Digital In

```

- 4** 3-1. Digital In Assign
- | | | | |
|-------|-------|-------|------|
| CD | COAX1 | Tape | OPT4 |
| DVD | COAX2 | V.Aux | OPT5 |
| VDP | OPT1 | | |
| TV | OFF | | |
| DBS | OPT2 | | |
| VCR-1 | OPT3 | | |
| VCR-2 | OFF | | |
- Default Yes

```

3.1
*Digital In
CD      : 4COAX1▶

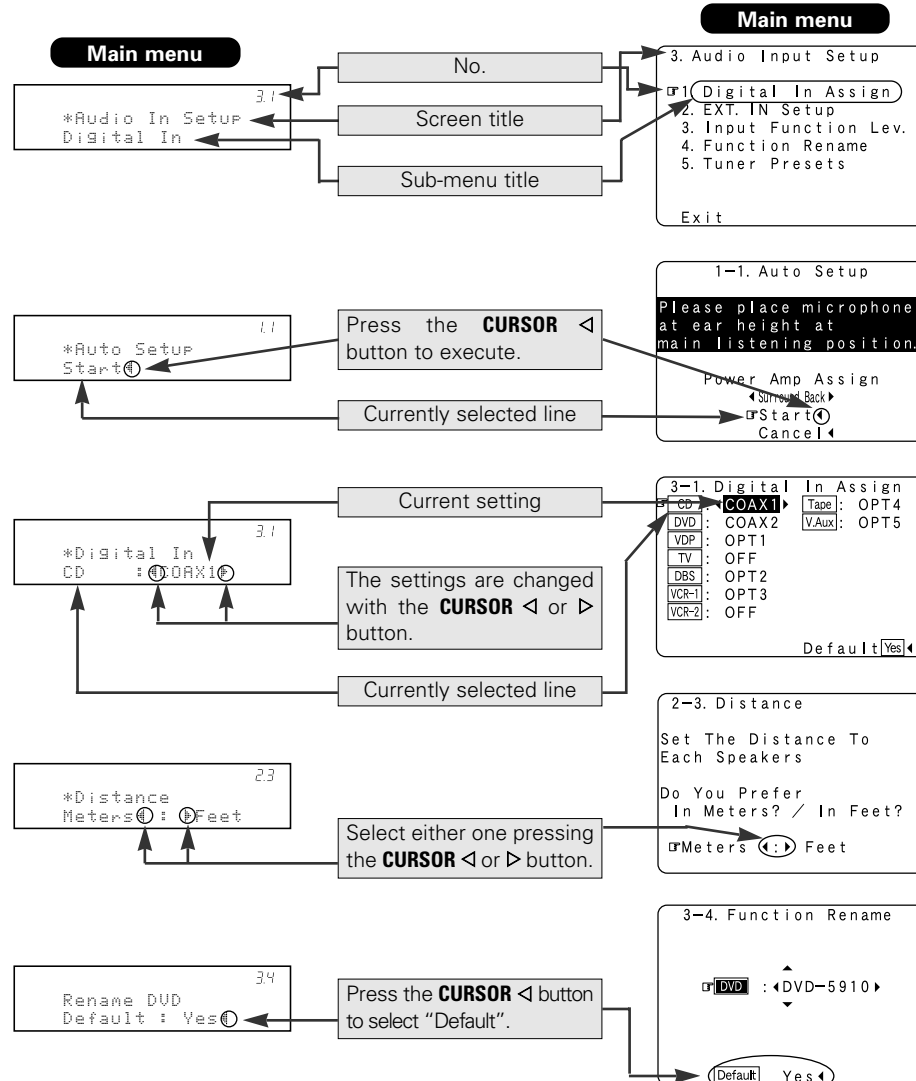
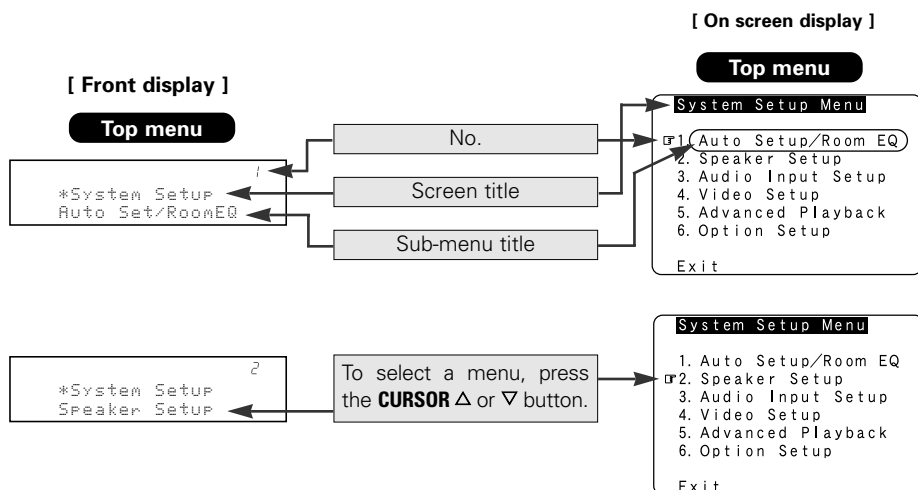
```

- 6** **System Setup Menu**
1. Auto Setup/Room EQ
 2. Speaker Setup
 3. Audio Input Setup
 4. Video Setup
 5. Advanced Playback
 6. Option Setup
- Exit**

```
*System Setup
Exit
```

On screen display and front display

The AVR-3806 is equipped with an intuitive and easy-to-understand on screen display, and is equipped with an alpha-numeric front panel display tube that can also be used to check and adjust settings. We recommend that you use the on screen display when you make system adjustments. Some representative front panel and on screen display examples are shown below.



Audio Input Setup

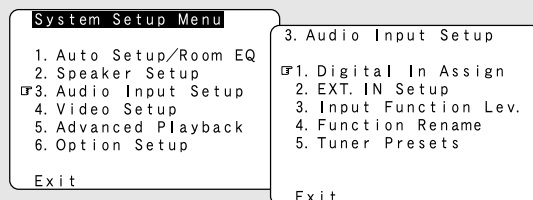
Make the audio-related settings.

Setting the Digital In Assignment

This setting assigns the digital input terminals of the AVR-3806 for the different input sources.

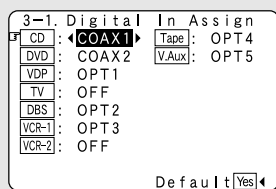
1 Press the **CURSOR** Δ or ∇ button to select the “Audio Input Setup” at the “System Setup Menu”, then press the **ENTER** button.

- The “Audio Input Setup” menu screen appears.



2 Press the **CURSOR** Δ or ∇ button to select the “Digital In Assign”, then press the **ENTER** button.

- The “Digital In Assign” menu screen appears.



3 Press the **CURSOR** Δ or ∇ button to select the input source, then press the **CURSOR** \triangleleft or \triangleright button to select the digital input terminal.

- ※ Select from among COAX 1 to 2, OPT 1 to 5.
- ※ If the same digital input terminal is selected, the setting for the input source that was previously assigned switches to “OFF”.
- ※ The HDMI input terminal is displayed when it is assigned to the input source at “HDMI In Assign” (page 66, 67).
- ※ If “Yes” is selected for “Default”, the settings are automatically reset to the default values.

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

- The “Audio Input Setup” menu reappears.

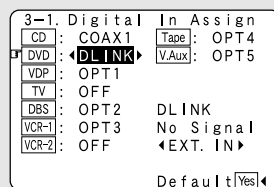


- The OPTICAL 3 and 4 terminals on the AVR-3806’s rear panel are equipped with an optical digital output terminal for recording digital audio signals to a CD recorder, MD recorder, or other digital audio recording deck. Use this for digital recording between a digital audio source (stereo – 2 channel) and a digital audio recorder.
- “PHONO” and “TUNER” cannot be selected on the “Digital In Assign” screen.

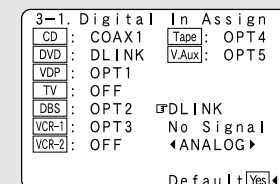
Setting the DENON LINK

- When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to “DENON LINK” with “Setting the Digital In Assignment”.
- When the input mode is AUTO and the signals are not be able to transferred by DENON LINK, the unit automatically changes over the input to the selected signals (ANALOG or EXT. IN).
- Refer to “DENON LINK connections” (page 20).

1 Press the **CURSOR** Δ or ∇ button to select the input source, then press the **CURSOR** \triangleleft or \triangleright button to select the “DLINK”.



2 Press the **CURSOR** Δ or ∇ button to select the “DLINK” setting, then press the **CURSOR** \triangleleft or \triangleright button to select the input signal (ANALOG or EXT. IN).



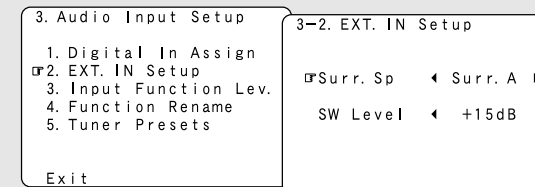
- ※ Select the input for the playback of signals that cannot be transferred by DENON LINK.

Setting the EXT. IN Setup

- Set the method of playback of the analog input signal connected to the EXT. IN (8CH) terminals.
- Refer to “Connecting the external inputs (EXT. IN) terminals” (page 17).

1 Press the **CURSOR** Δ or ∇ button to select the “EXT. IN Setup” at the “Audio Input Setup” menu, then press the **ENTER** button.

- The “EXT. IN Setup” screen appears.



2 Press the **CURSOR** Δ or ∇ button to select the item to be set, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.

Surr. Sp:

Presets the surround speakers that are used in the EXT. IN mode. Select according to the specifications of the player being used. Also refer to the player’s operating instructions.

• Surr. A:

Select when using surround speakers A.

• Surr. B:

Select when using surround speakers B.

• Surr. A+B:

Select when using both surround speakers A and B.

SW Level:

Sets the playback level of the analog signal that was input to the EXT. IN subwoofer terminal.

Select according to the specifications of the player being used. Also refer to the player's operating instructions.

+15dB (default) recommended. (0, +5, +10 and +15 can be selected.)

3 Press the ENTER button to enter the setting.

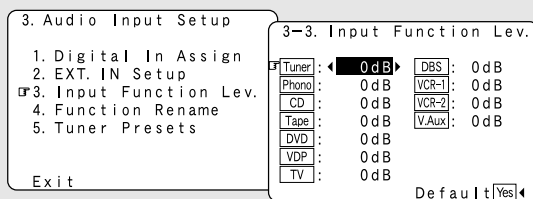
- The "Audio Input Setup" menu reappears.

Setting the Input Function Level

- Correct the playback level of the different input sources.
- Adjust the playback levels of the devices connected to the different input sources to the same level to eliminate the need for adjusting the main volume each time the input source is switched.

1 Press the CURSOR Δ or ∇ button to select the "Input Function Lev." at the "Audio Input Setup" menu, then press the ENTER button.

- The "Input Function Lev." screen appears.



2 Press the CURSOR Δ or ∇ button to select the input source, then press the CURSOR \triangleleft or \triangleright button to adjust the level.

- ※ The level can be adjusted between -12 dB and +12 dB in units of 1 dB.
- ※ If "Yes" is selected for "Default", the settings are automatically reset to the default values.

3 Press the ENTER button to enter the setting.

- The "Audio Input Setup" menu reappears.



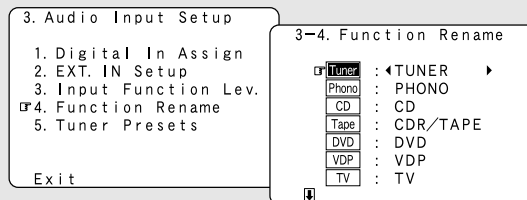
- After completing this setting, check that the playback levels for the different sources are the same.

Setting the Function Rename

The names of the input sources displayed on the front display and on the on screen display can be changed. The names or brands of the devices connected to the input sources can be input.

1 Press the CURSOR Δ or ∇ button to select the "Function Rename" at the "Audio Input Setup" menu, then press the ENTER button.

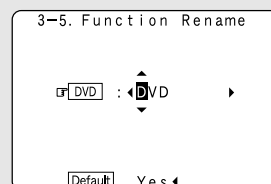
- The "Function Rename" screen appears.



2 Press the CURSOR Δ or ∇ button to select the input source whose name you want to change, then press the CURSOR \triangleleft or \triangleright button.

- The screen switches to the character input screen.

Example: When "DVD" is selected and the CURSOR \triangleleft or \triangleright button is pressed



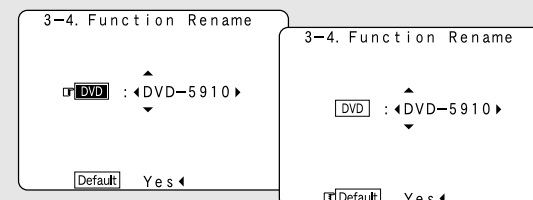
3 Press the CURSOR \triangleleft or \triangleright button to move the cursor (■) to the character, number, symbol or punctuation mark you wish to input, and press the CURSOR Δ or ∇ button to select that character.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz01234
56789
!"#\$%&'()*+,-./:;<=>?@[\] (space)

- ※ Up to 8 characters can be input.

4 Repeat step 3 to input the input source name.

- ※ If you wish to set the input source back to as it was initially, press the CURSOR ∇ button with the input source highlighted.
- ※ If "Yes" is selected for "Default", the setting are automatically reset to the default name.



5 Once all the characters have been input, press the ENTER button.

- The "Function Rename" screen reappears.

- ※ Use the same procedure to change other input source names as well.

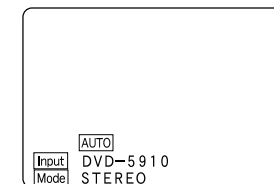
6 Press the ENTER button to enter the setting.

- The "Audio Input Setup" menu reappears.



- When the input source is selected, the display is as shown below.

Example: When the name has been changed to "DVD-5910"



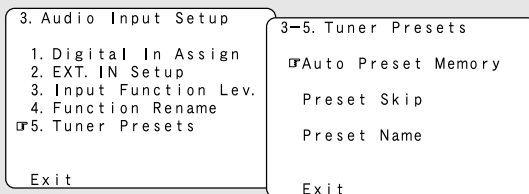
Tuner Presets

■ Auto Preset Memory

Use this to automatically search for FM broadcasts and store up to 56 stations at preset channels A1 to 8, B1 to 8, C1 to 8, D1 to 8, E1 to 8, F1 to 8 and G1 to 8.

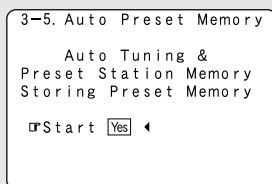
1 Press the **CURSOR** Δ or ∇ button to select the “Tuner Presets” at the “Audio Input Setup” menu, then press the **ENTER** button.

- The “Tuner Presets” screen appears.



2 Press the **CURSOR** Δ or ∇ button to select the “Auto Preset Memory”, then press the **ENTER** button.

- The screen switches to the “Auto Preset Memory” screen appears.



3 Press the **CURSOR** \triangleleft button to select the “Yes”.

- “Search” flashes on the screen and searching begins.
- “Completed” appears once searching is completed.
- The display automatically switches to the “Tuner Presets” screen.



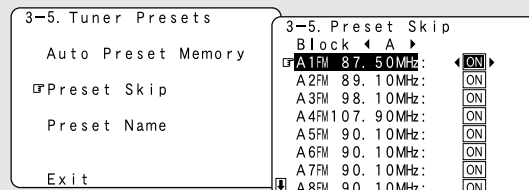
- If an FM station cannot be preset automatically due to poor reception, use the “Manual tuning” operation (page 43) to tune in the station, then preset it using the manual “Preset memory” operation (page 44).

■ Preset Skip

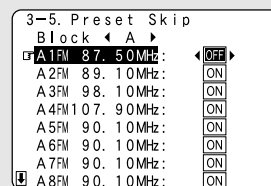
When selecting preset channels pressing the **PRESET** button, it is possible to skip specific preset channels.

1 Press the **CURSOR** Δ or ∇ button to select the “Preset Skip” at the “Tuner Presets” screen, then press the **ENTER** button.

- The “Preset Skip” screen appears.

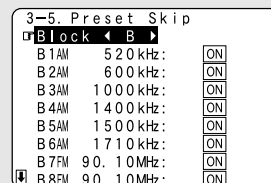


2 Press the **CURSOR** Δ or ∇ button to select the preset channel you want to skip, then press the **CURSOR** \triangleleft or \triangleright button to select the “ON” or “OFF”.



3 When the **CURSOR** ∇ button is pressed at the very bottom of the screen.

- The screen for the next preset memory block appears.



- ※ It is also possible to select the desired preset memory block by selecting “Block” then pressing the **CURSOR** \triangleleft or \triangleright button.

4 Repeat steps 2 and 3.

5 Press the **ENTER** button.

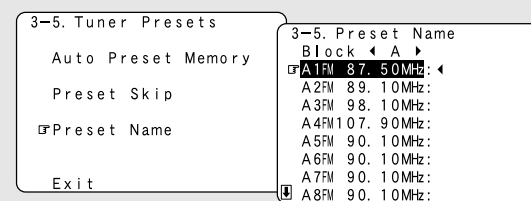
- The “Tuner Presets” screen reappears.

■ Preset Name

It is possible to input station names, etc., for preset channels (except the XM channel). These names are displayed on the front display and on the on screen display.

1 Press the **CURSOR** Δ or ∇ button to select the “Preset Name” at the “Tuner Presets” screen, then press the **ENTER** button.

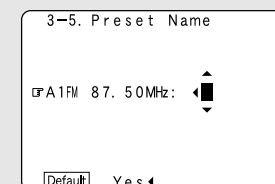
- The “Preset Name” screen appears.



2 Press the **CURSOR** Δ or ∇ button to select the preset channel whose name you want to change, then press the **CURSOR** \triangleleft or \triangleright button.

- The screen switches to the character input screen.

Example: When “A1” is selected and the **CURSOR** \triangleleft or \triangleright button is pressed



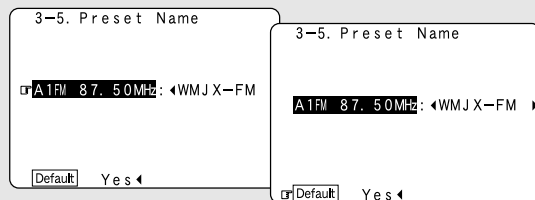
3 Press the **CURSOR** \triangleleft or \triangleright button to move the cursor (■) to the character, number, symbol or punctuation mark you wish to input, and press the **CURSOR** Δ or ∇ button to select that character.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz012
 3456789
 ! " # % & ' () * + , - . / : ; < = > ? @ [\] (space)

- ※ Up to 8 characters can be input.

4 Repeat step 3 to input the preset channel name.

- ※ If you wish to set the preset channel name back to as it was initially, press the **CURSOR** ∇ button with the preset channel name highlighted.
- ※ If the same digital input terminal is selected, the setting for the input source that was previously assigned switches to “OFF”.
- ※ If “Yes” is selected for “Default”, the setting are automatically reset to the default name.



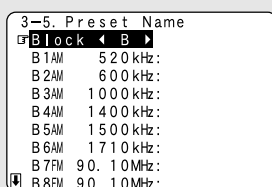
5 Once all the characters have been input, press the ENTER button.

- The “Preset Name” screen reappears.

- ※ Use the same procedure to change other input source names as well.

6 When the CURSOR ∇ button is pressed at the very bottom of the screen.

- The screen for the next preset memory block appears.



- ※ It is also possible to select the desired preset memory block by selecting “Block” then pressing the **CURSOR** \triangleleft or \triangleright button.

7 Press the ENTER button.

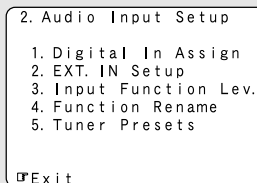
- The “Tuner Presets” screen reappears.

8 Press the ENTER button to enter the setting.

- The “Audio Input Setup” menu reappears.

9 Press the CURSOR \triangle or ∇ button to select “Exit”, then press the ENTER button.

- The “System Setup Menu” reappears.



Video Setup

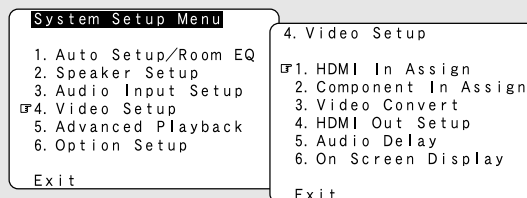
Make the video-related settings.

Setting the HDMI In Assign

- This setting assigns the HDMI input terminals for different input sources.
- Set the method for playing the audio signals included in the HDMI input signal.

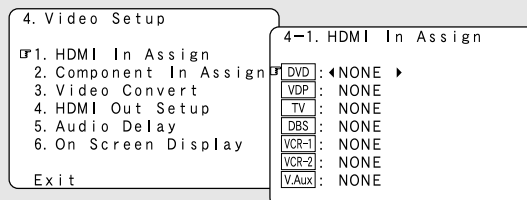
1 Press the CURSOR \triangle or ∇ button to select the “Video Setup” at the “System Setup Menu”, then press the ENTER button.

- The “Video Setup” menu screen appears.



2 Press the CURSOR \triangle or ∇ button to select the “HDMI In Assign”, then press the ENTER button.

- The “HDMI In Assign” screen appears.



3 Press the CURSOR \triangle or ∇ button to select the input source, then press the CURSOR \triangleleft or \triangleright button to select the input terminal.

- ※ Select from among HDMI1 to 2.
- ※ If the same HDMI input terminal is selected, the setting for the input source that was previously assigned switches to “NONE”.

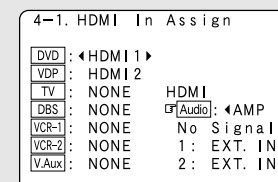
4 Press the CURSOR \triangle or ∇ button to select the method for playing the audio signals included in the HDMI input signal, then press the CURSOR \triangleleft or \triangleright button to select the “TV” or “AMP”.

TV:

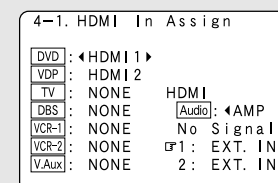
Play the audio signals on a monitor TV connected to the AVR-3806.

AMP:

Play the audio signals on speakers connected to the AVR-3806.



5 Press the CURSOR \triangle or ∇ button to select the input for the playback of signals when the audio signal of HDMI can not be reproduced, then press the CURSOR \triangleleft or \triangleright button to select the input signal (ANALOG or EXT. IN).



- ※ When the audio signal of HDMI has become unlocked, the unit automatically changes over to the set connector (ANALOG or EXT. IN).
- ※ 1~2 correspond to each HDMI 1~2 input terminal.

6 Press the **ENTER** button to enter the setting..

- The “Video Setup” menu reappears.



- If a monitor is connected with an HDMI cable but the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor from the AVR-3806 (DVI mode).

Press the **STATUS** button to check which mode is set for outputting HDMI signals from the AVR-3806 (HDMI and DVI modes).

- Input signals input from the analog and digital terminals are not output to the TV.
- With HDMI, the video and audio signals are transferred simultaneously. When HDMI is assigned to an input source, the digital audio input assignment switches to HDMI along with the video input.

When this setting is made for input sources to which a digital audio input (DENON LINK, OPTICAL etc.) is previously assigned, the digital audio assignment is set to HDMI.

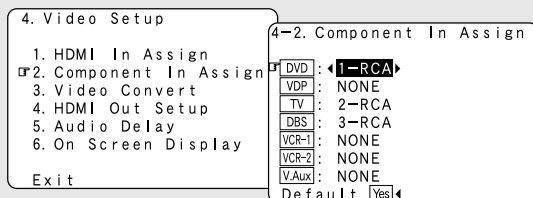
In this case, reassign the digital input using the procedure described at “Digital In Assign” (page 63).

Setting the Component In Assign

This setting assigns the component video input terminal of the AVR-3806 for the different input sources.

1 Press the **CURSOR** Δ or ∇ button to select the “Component In Assign” at the “Video Setup” menu, then press the **ENTER** button.

- The “Component In Assign” screen appears.



2 Press the **CURSOR** Δ or ∇ button to select the input source, then press the **CURSOR** \triangleleft or \triangleright button to select the component video input terminal.

- ※ Select from among 1-RCA to 3-RCA.
- ※ If the same component video input terminal is selected, the setting for the input source that was previously assigned switches to “NONE”.
- ※ If “Yes” is selected for “Default”, the settings are reset to the default values.

3 Press the **ENTER** button to enter the setting.

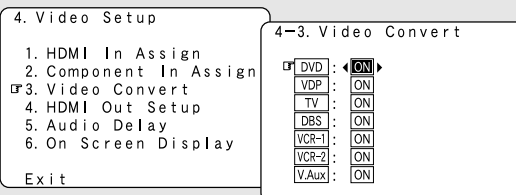
- The “Video Setup” menu reappears.

Setting the Video Convert

Set whether or not to use the video conversion function.

1 Press the **CURSOR** Δ or ∇ button to select the “Video Convert” at the “Video Setup” menu, then press the **ENTER** button.

- The “Video Convert” screen appears.



2 Press the **CURSOR** Δ or ∇ button to select the input source, then press the **CURSOR** \triangleleft or \triangleright button to select the “ON” or “OFF”.

ON:

The convert function operates.

When there are multiple input signals, the input signals are detected and the input signal to be output from the video monitor output terminal is selected automatically in the following order: component video, S-Video, composite video.

OFF:

The convert function does not operate.

The video signal input from the video input terminal is only output to the video monitor out terminal.

The S-Video signal input from the S-Video input terminal is only output to the S-Video monitor out terminal.

The component input signal input from the component input terminals is only output to the component monitor output terminals.

3 Press the **ENTER** button to enter the setting.

- The “Video Setup” menu reappears.



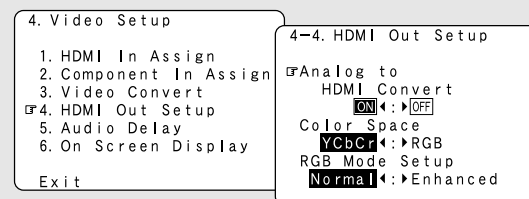
- Down-converting from the component video signal to the S-Video and composite video signal is possible only when the resolution of a component video signal is 480i / 576i.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. If this happens, please set the conversion mode to OFF.
- When the video conversion function has been used, information such as that of text broadcasts which has been added to the video signal might not be output. If this happens, please set the conversion mode to OFF.

Setting the HDMI Out Setup

- Set whether to use the analog video signals to HDMI conversion function.
- When using this conversion function, set the color format and video range of the signals output from the HDMI terminal.

1 Press the **CURSOR** Δ or ∇ button to select the “HDMI Out Setup” at the “Video Setup” menu, then press the **ENTER** button.

- The “HDMI Out Setup” screen appears.



- 2** Press the **CURSOR** \triangle or ∇ button to select the setting, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.

Analog to HDMI Convert:

- **ON:**
Setting for converting analog video signals into HDMI signals.
- **OFF:**
Setting for not converting analog video signals into HDMI signals.

Color Space:

- **Y Cb Cr:**
The Y Cb Cr format video signals is output via the HDMI output connector.
- **RGB:**
The RGB format video signals is output via the HDMI output connector.

RGB Mode Setup:

- **Normal:**
Signals are output via the HDMI output connector with a digital RGB video range (data range) of 16 (black) to 235 (white).
- **Enhanced:**
Signals are output via the HDMI output connector with a digital RGB video range (data range) of 0 (black) to 255 (white).

- ※ When the HDMI connectors are connected, the black may seem to stand out, depending on the TV or the monitor. In this case, set this to “Enhanced”.
- ※ When “Y Cb Cr” is selected under “Color Space”, “RGB Mode Setup” will have no effect.

- 3** Press the **ENTER** button to enter the setting.
- The “Video Setup” menu reappears.



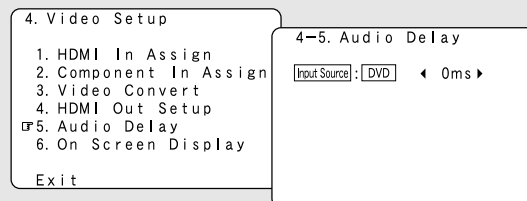
- “Color Space” and “RGB Mode Setup” are only displayed when “Analog to HDMI Convert” is set to “ON”.
- When connecting to an HDCP compatible monitor equipped with DVI-D terminal using an HDMI/DVI-D converter cable, the signals are output in RGB format, regardless of the “Color Space” setting.
- To view the on-screen display using an HDMI monitor, set “Analog to HDMI Convert” at “HDMI Out Setup” to “ON” (default).

Setting the Audio Delay

- When watching a DVD or other video source, the picture on the monitor may seem delayed with respect to the sound. In this case, adjust the audio delay to delay the sound and synchronize it with the picture.
- The audio delay setting is stored separately for each input source.

- 1** Press the **CURSOR** \triangle or ∇ button to select the “Audio Delay” at the “Video Setup” menu, then press the **ENTER** button.

- The “Audio Delay” screen appears.



- 2** Press the **CURSOR** \triangleleft or \triangleright button to set the delay time (0 ms ~ 200 ms).

- ※ With a movie source, for example, adjust so that the movement of the actors’ lips is synchronized with the sound.

- 3** Press the **ENTER** button to enter the setting.
- The “Video Setup” menu reappears.



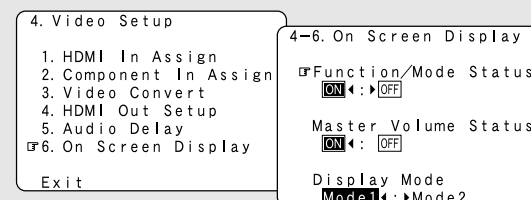
- The audio delay setting does not apply when playing in the EXT. IN mode or in the analog input direct mode or stereo mode (Front speaker setting “Large” TONE DEFEAT “ON” and Room EQ “OFF”).
- By default, this menu is not displayed when no digital signals are being input.

Setting the On Screen Display (OSD)

- Use this to turn the on screen display (messages other than the menu screens) on or off.
- Sets the on screen display’s display mode.

- 1** Press the **CURSOR** \triangle or ∇ button to select the “On Screen Display” at the “Video Setup” menu, then press the **ENTER** button.

- The “On Screen Display” screen appears.



- 2** Press the **CURSOR** \triangle or ∇ button to select the item to be set, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.

Function/Mode Status:

Set whether or not to turn on the on screen display of the input source name and input mode when an input source is selected.signals.

Master Volume Status:

Set whether or not to turn on the on screen display of the main volume level when the main volume is operated.

Display Mode:

- **Mode 1:**
Flickering is not prevented.
- **Mode 2:**
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.

- 3** Press the **ENTER** button to enter the setting.
- The “Video Setup” menu reappears.

- 4** Press the **CURSOR** Δ or ∇ button to select the “Exit”, then press the **ENTER** button.
- The “System Setup Menu” reappears.

4. Video Setup

1. HDMI In Assign
2. Component In Assign
3. Video Convert
4. HDMI Out Setup
5. Audio Delay
6. On Screen Display

Exit

Advanced Playback

Makes more detailed audio playback settings.

Setting the 2ch Direct/Stereo

Set this when you want to change the speaker settings when the surround mode is set to the 2-channel Direct or Stereo mode.

- 1** Press the **CURSOR** Δ or ∇ button to select the “Advanced Playback” at the “System Setup Menu”, then press the **ENTER** button.
- The “Advanced Playback” menu screen appears.

System Setup Menu

1. Auto Setup/Room EQ
2. Speaker Setup
3. Audio Input Setup
4. Video Setup
5. Advanced Playback
6. Option Setup

Exit

5. Advanced Playback

1. 2ch Direct/Stereo
2. Dolby Digital Setup
3. Auto Surround Mode
4. Manual EQ Setup

Exit

- 2** Press the **CURSOR** Δ or ∇ button to select the “2ch Direct / Stereo”, then press the **ENTER** button.
- The “2ch Direct / Stereo” screen appears.

5. Advanced Playback

1. 2ch Direct/Stereo
2. Dolby Digital Setup
3. Auto Surround Mode
4. Manual EQ Setup

Exit

Example: This screen is displayed in function of the settings made at “Speaker Configuration”, “Subwoofer Setup”, “Distance” and “Crossover Frequency”

5-1. 2ch Direct/Stereo

Setting : Basic

Front : Large

Subwoofer : Yes

Subwoofer Mode : LFE

5-1. 2ch Direct/Stereo

Crossover : 80Hz

Distance FL: 12.0ft

FR: 12.0ft

- 3** Press the **CURSOR** Δ or ∇ button to select the “Custom”.

5-1. 2ch Direct/Stereo

Setting : Custom

Front : Large

Subwoofer : Yes

Subwoofer Mode : LFE

- 4** Press the **CURSOR** Δ or ∇ button to select the setting, then press the **CURSOR** Δ or ∇ button to select the parameter.

- 5** Press the **ENTER** button to enter the setting.
- The “Advanced Playback” menu reappears.

Setting the front B speakers when the surround mode is set to the 2-channel Direct or Stereo

- When “Front B” is selected at “Power Amp Assign” and “Custom” is selected at this setting, the “Front B” setting is displayed.

※ To play signals from the Front B speaker when in the 2-channel Direct or Stereo mode, set “Used”.

5-1. 2ch Direct/Stereo

Setting : Custom

Front B : Used

Front : Large

Subwoofer : Yes

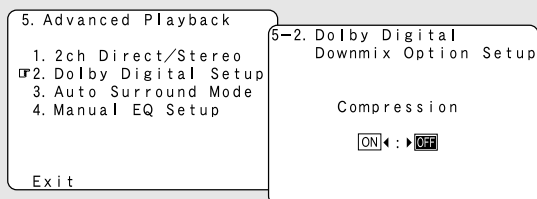
Subwoofer Mode : LFE+Main

Setting the Dolby Digital Setup

Sets the down-mixing method when not using a center speaker or surround speakers.

1 Press the **CURSOR** Δ or ∇ button to select the “Dolby Digital Setup” at the “Advanced Playback” menu, then press the **ENTER** button.

- The “Dolby Digital Setup” screen appears.



2 Press the **CURSOR** \triangleleft or \triangleright button to select the “ON” if you want to use the Compression, “OFF” if you do not want to use it.

ON:

The dynamic range is compressed automatically according to the combination of speakers being used.

OFF:

The dynamic range is not compressed.

- ※ Set “Compression” to “ON” if it seems that sound is distorted because the input level exceeds the allowable input for the front speakers.
- ※ When a center speaker or surround speakers are not connected, the sounds in those channels are directed to the front speakers.

3 Press the **ENTER** button to enter the setting.

- The “Advanced Playback” menu reappears.

Setting the Auto Surround Mode

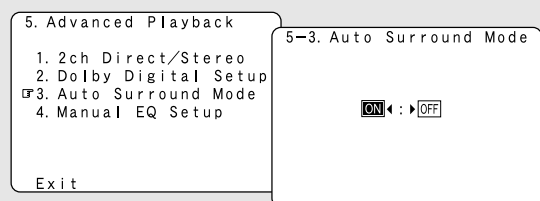
The surround mode used at last for the four types of input signals shown below is stored in the memory, and the signal is automatically played with that surround mode the next time it is input.

Note that the surround mode setting is also stored separately for the different input sources.

- ① Analog and PCM 2-channel signals (STEREO)
 - ② 2-channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY PLIIx cinema)
 - ③ Multi-channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY/DTS SURROUND)
 - ④ PCM and DSD multi-channel signals other than Dolby Digital and DTS (MULTI CH IN)
- ※ Default settings are indicated in ().
 - ※ During playback in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

1 Press the **CURSOR** Δ or ∇ button to select the “Auto Surround Mode” at the “Advanced Playback” menu, then press the **ENTER** button.

- The “Auto Surround Mode” screen appears.



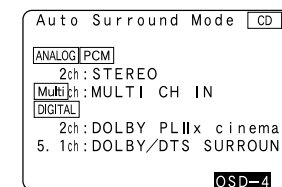
2 Press the **CURSOR** \triangleleft or \triangleright button to select the “ON” if you want to use the auto surround mode, “OFF” if you do not want to use it.

3 Press the **ENTER** button to enter the setting.

- The “Advanced Playback” menu reappears.



- The various settings applied in the auto surround mode can be checked via the on screen display. Simply press the **ON SCREEN** button.

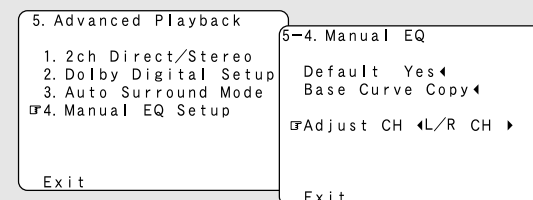


Setting the Manual EQ Setup

Allows you to adjust the tonal quality of the various speakers (except the subwoofer) while listening to a music source.

1 Press the **CURSOR** Δ or ∇ button to select the “Manual EQ Setup” at the “Advanced Playback” menu, then press the **ENTER** button.

- The “Manual EQ” screen appears.



2 Press the **CURSOR** \triangleleft or \triangleright button to select the adjustment mode, then press the **ENTER** button.

All CH:

All channels can be adjusted simultaneously.

L/R CH:

The left and right channels of the pair of speakers can be adjusted simultaneously.

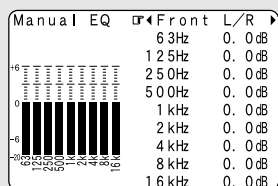
Each CH:

The channels can be adjusted separately.

3 Press the **CURSOR** ◀ or ▶ button to select the speaker to be set.

- The screen switches to the character input screen.

Example: When “L/R CH” is selected.

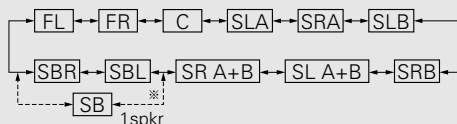


※ The display changes as follows.

① Select the “L/R CH”



② Select the “Each CH”



※ When the surround back speaker setting is set to “1spkr” at “Speaker Configuration”, this is set to “SB”.

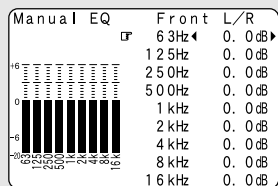
③ Select the “All CH”

In this case, speaker selection is not performed.

※ If a value is already set for the FL channel, the data stored for the FL channel is displayed.

4 Press the **CURSOR** △ or ▽ button to select the frequency, then press the **CURSOR** ◀ or ▶ button to adjust the gain level.

- ※ Each frequency can be adjusted the range from –20 dB to +6 dB in 0.5 dB step.

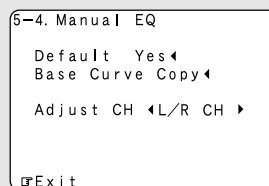


5 Press the **ENTER** button to enter the setting.

- The “Manual EQ” screen reappears.

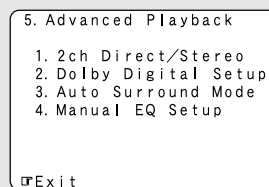
6 Press the **CURSOR** △ or ▽ button to select the “Exit”, then press the **ENTER** button.

- The “Advanced Playback” menu reappears.

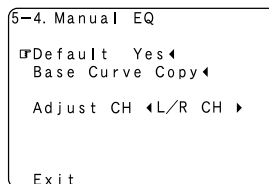


7 Press the **CURSOR** △ or ▽ button to select the “Exit”, then press the **ENTER** button.

- The “System Setup Menu” reappears.

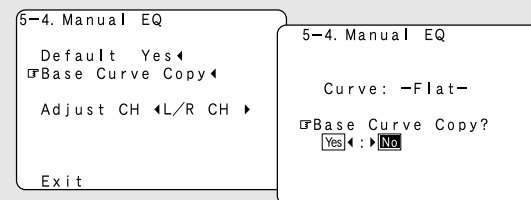


- “Base Curve Copy” is displayed after performing the Auto Setup.
- To restore the settings to their defaults, select “Default Yes ◀”, then press the **CURSOR** ◀ button.

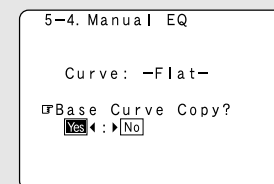


Procedure for copying the “Flat” correction curve

1 Press the **CURSOR** △ button to select the “Base Curve Copy”, then press the **CURSOR** ◀ button.

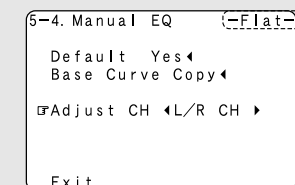


2 Press the **CURSOR** ◀ button to select the “Yes”.



3 Press the **ENTER** button to enter the setting.

- The “Manual EQ” screen reappears.



※ The type of the copied correction curve is displayed in the upper right of this screen.



- If the “Auto Setup” procedure has not been performed, this item is not displayed.

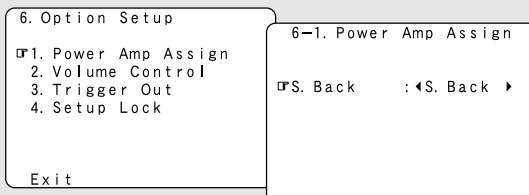
Option Setup

Setting the Power Amplifier Assignment

If no Surround back speakers are used in the main room, their amplifier channels can be assigned for multi-zone use or the front speaker's bi-amp connection.

1 Press the **CURSOR** Δ or ∇ button to select the “Power Amp Assign” at the “Option Setup” menu, then press the **ENTER** button.

- The “Power Amp Assign” screen appears.



2 Press the **CURSOR** \triangleleft or \triangleright button to select which channel to assign the surround back power amplifier to.

S. Back:

The Surround back speakers are used in MAIN ZONE.

Front:

This provides a bi-amp mode for the two main front speakers, replicating the front left and front right amplifier channel's outputs.

Front B:

Both surround back power amplifier channels can be used to provide a second set of stereo outputs that match the front left and right speakers, providing a Speaker B option for stereo sound in another location (see page 69).

ZONE2:

This mode assigns the surround back amplifier channels to provide ZONE2 speaker-level outputs from the surround back speaker terminals.

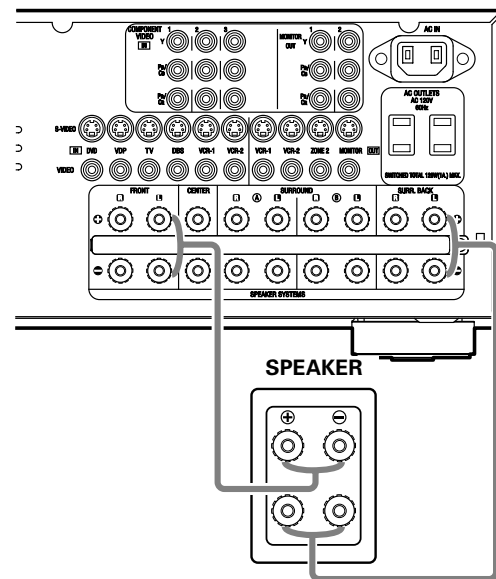
ZONE3:

This mode assigns the surround back amplifier channels to provide ZONE3 speaker-level outputs from the surround back speaker terminals.

Front Bi-Amp connections

Certain loudspeakers are equipped with two sets of input terminals, for bi-amplification. The AVR-3806 Amp Assign mode allows you to power bi-amp-capable speakers with two amplifier channels. Be sure to consult the owner's manual of your bi-amp-capable speakers for further information before proceeding.

AVR-3806



NOTE:

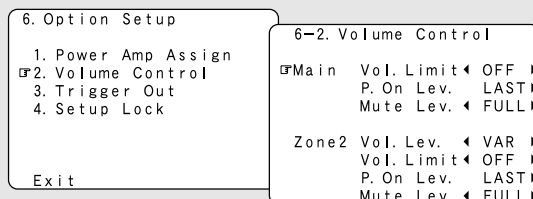
- When making bi-amp connections, be sure to remove the short-circuiting bar included with the speaker.

Setting the Volume Control

Set the upper limit for the volume, the volume level when the power is turned on, and the volume level when the mute mode is set for the different zones.

1 Press the **CURSOR** Δ or ∇ button to select the “Volume Control” at the “Option Setup” menu, then press the **ENTER** button.

- The “Volume Control” screen appears.



2 Press the **CURSOR** Δ or ∇ button to select the desired setting, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.

Volume Limit:

Set the upper limit for the volume for the different zones.

- **-20 dB, -10 dB, 0 dB:**

The volume cannot be increased above the selected levels.

- **OFF:**

If you do not want to set a volume limit, select “OFF”. In this case, the volume can be set to the AVR-3806's maximum volume (output) level of +18 dB, which is extremely loud.

Power On Level:

Set the volume that is set when the power is turned on for the different zones.

You can adjust the MAIN ZONE volume level within the range of -80 to +18 dB in steps of 1.0 dB and the ZONE2 (or ZONE3) volume level within the range of -70 dB to +18 dB in steps of 1.0 dB.

- **--- (Mute)**

The volume is always muted when the power is turned on.

- **LAST**

The volume set when the AVR-3806 was last used is stored in the memory and set when the power is turned on.

3 Press the **ENTER** button to enter the setting.

- The “Option Setup” menu reappears.

Mute Level:

Set the volume attenuation level when the mute mode is set for the different zones.

- **FULL**

The volume is fully muted.

- **-40 dB**

The volume is lowered 40 dB from the current level.

- **-20 dB**

The volume is lowered 20 dB from the current level.

Volume Level:

Set whether to fix the output level for the different zones or make it variable.

- **Variable**

The level can be adjusted freely using buttons on the remote control unit.

- **-40 dB, 0 dB**

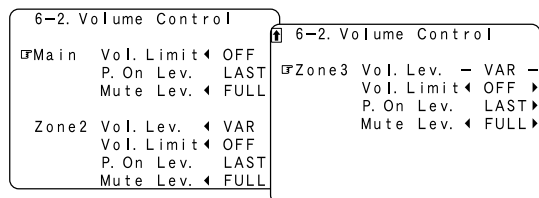
The output level is fixed at the set level and the volume can no longer be adjusted.

3 Press the ENTER button to enter the setting.

- The “Option Setup” menu reappears.



- The volume control for ZONE3 can be set only when “ZONE3” is selected at “Power Amp Assign” (page 72).



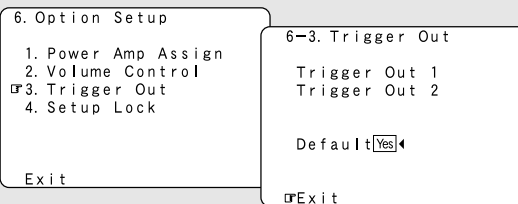
- For ZONE2 and ZONE3, the “Volume Limit” and “Power On Level” can be set when “Variable” is selected for “Volume Level”.
- When the power amplifier is assigned to either of the ZONE2 and ZONE3 channels at “Power Amp Assign”, “-VAR-” (only variable) is displayed and the fixed level cannot be set.

Setting the Trigger Out

- Two 12 V DC Trigger Outputs on the rear panel can be used to control other devices with compatible trigger inputs, such as motorized screens, motorized screen masking, motorized drapes, and other trigger-controlled devices.
- Set the DC output supplied from the trigger out terminals for the various input sources to “ON” or “OFF”.

1 Press the CURSOR Δ or ∇ button to select the “Trigger Out” at the “Option Setup” menu, then press the ENTER button.

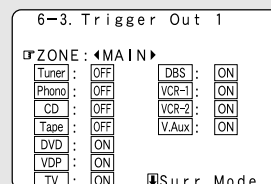
- The “Trigger Out” screen appears.



2 Press the CURSOR Δ or ∇ button to select the trigger out terminal you want to set, then press the ENTER button.

- The setting screen appears.

Example: When “Trigger Out 1” is selected



3 Press the CURSOR \triangleleft or \triangleright button to select the zone (MAIN ZONE, ZONE2 and ZONE3).

- ※ The power supplied from the trigger out terminal turns on and off when the power for the set zone is turned on and off.

4 Press the CURSOR Δ or ∇ button to select the input source, then press the CURSOR \triangleleft or \triangleright button to select the “ON” or “OFF”.

ON:

When that input source is selected, the power supplied from the trigger out terminal turns on.

OFF:

When that input source is selected, the power supplied from the trigger out terminal turns off.

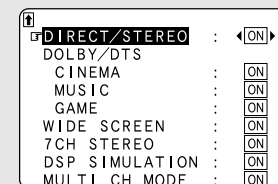
5 If “MAIN” was selected at step 3: Press the CURSOR Δ or ∇ button to select the surround mode, then press the CURSOR \triangleleft or \triangleright button to select the “ON” or “OFF”.

ON:

If “ON” is selected when an input source set to “ON” is selected, the power supplied from the trigger out terminal turns on.

OFF:

If “OFF” is selected when an input source set to “ON” is selected, the power supplied from the trigger out terminal turns off.



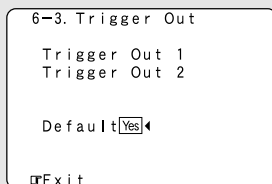
6 Press the ENTER button.

- The “Trigger Out” screen reappears.

- ※ Use the same procedure to make the settings for Trigger Out 2.

7 Press the **CURSOR** Δ or ∇ button to select the “Exit”, then press the **ENTER** button.

- The “Option Setup” menu reappears.



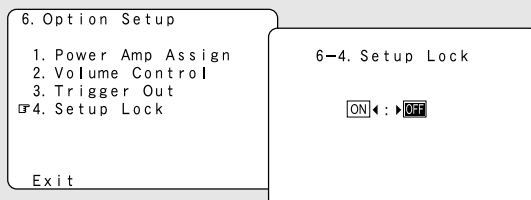
※ If “Yes” is selected for “Default”, the setting are automatically reset to the default values.

Setup Lock

The system setup settings can be locked so that they cannot be changed easily.

1 Press the **CURSOR** Δ or ∇ button to select the “Setup Lock” at the “Option Setup” menu, then press the **ENTER** button.

- The “Setup Lock” screen appears.

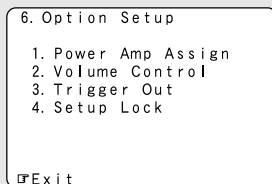


2 Press the **CURSOR** \triangleleft button to select “ON”, to lock the system setup settings, then press the **ENTER** button.

- The “Option Setup” menu reappears.

3 Press the **CURSOR** Δ or ∇ button to select the “Exit”, then press the **ENTER** button.

- Finalize the setting and exit the “Option Setup” menu.



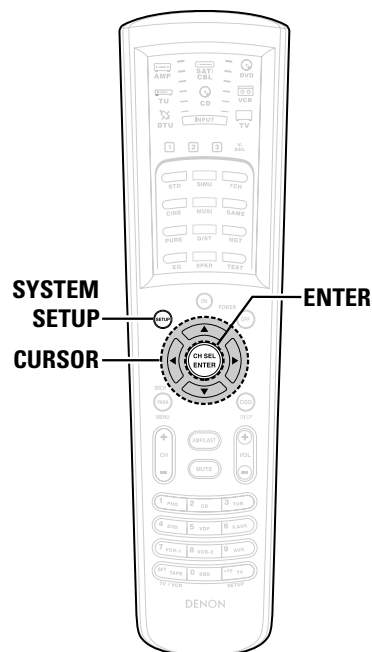
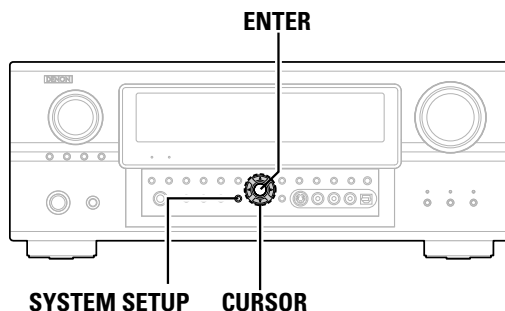
- When the setup lock function is activated, the settings listed below cannot be changed, and “Setup Locked” is displayed when related buttons are operated.
 - System setup settings
 - Surround parameter settings
 - Tone control settings
 - Channel level settings (including test tones)
 - RoomEQ
- To unlock, press the **SETUP** button again and display the “Setup Lock” screen, then select “OFF” and press the **ENTER** button.

Advanced Setup – Part 2

This Speaker Setup section describes the procedures to make speaker settings manually (without using the Auto Setup function), as well as to make manual changes to settings that have already been made by the Auto Setup function.

Speaker Setup

- If the “Auto Setup” procedure has already been performed, there is no need to make this setting.
- Perform this setting if you wish to make the settings for your speaker systems manually.

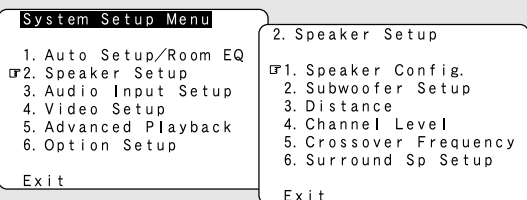


Setting the type of speakers

The composition of the signals output to each channels and the frequency response are adjusted according to the combination of speakers actually being used.

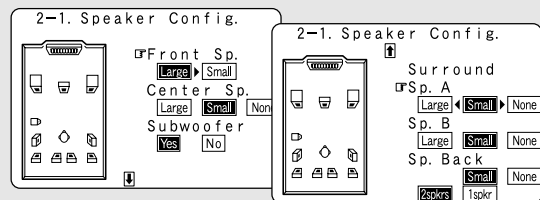
- 1 Press the **CURSOR** Δ or ∇ button to select the “Speaker Setup” at the “System Setup Menu”, then press the **ENTER** button.

- The “Speaker Setup” menu screen appears.

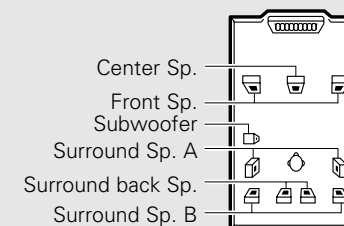


- 2 Press the **CURSOR** Δ or ∇ button to select the “Speaker Config.”, then press the **ENTER** button.

- The “Speaker Config.” screen appears.



- 3 Press the **CURSOR** Δ or ∇ button to select the speaker, then press the **CURSOR** \triangleleft or \triangleright button to select the parameter.



- 4 Press the **ENTER** button to enter the setting.
- The “Speaker Setup” menu reappears.



- Select “Large” or “Small” not according to the actual size of the speaker but according to the speaker’s capacity for playing low frequency (bass sound below the frequency set for the Crossover Frequency) signals. If you do not know, try comparing the sound at both settings (setting the volume to a level low enough so as not to damage the speakers) to determine the proper setting.

Parameters

Large:

Select this when using speakers that can fully reproduce deep bass well below the frequency set for the Crossover Frequency mode.

Small:

Select this when using speakers that are not capable of handling deep bass well below the frequency set for the Crossover Frequency mode. Deep bass content in any channel with a SMALL speaker is routed to the subwoofer(s).

None:

Select this when no speakers are installed.

Yes / No:

Select “Yes” when a subwoofer is installed, “No” when a subwoofer is not installed.

2spkr / 1spkr:

Select the number of speakers to be used for the surround back channel.

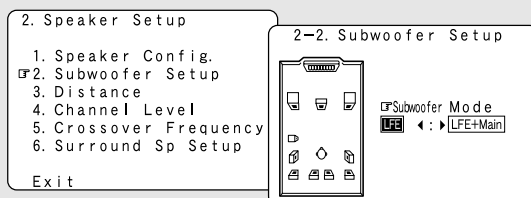
- ※ A subwoofer with sufficient low frequency playback capability can better handle deep bass than most main and surround speakers, and the system's overall performance will be greatly enhanced when SMALL is set for the main (front) and surround speakers.
- ※ When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes", and when "Subwoofer" is set to "No", "Front" is automatically set to "Large".

Setting the low frequency distribution

- Set the subwoofer mode according to the speaker system being used.
- Select the play mode that provides bass reproduction with body.

1 Press the CURSOR Δ or ∇ button to select the "Subwoofer Setup" at the "Speaker Setup" menu, then press the ENTER button.

- The "Subwoofer Setup" screen appears.



2 Press the CURSOR \triangleleft or \triangleright button to select the setting.

LFE:

For any channel(s) that are set to LARGE, low frequencies in that channel's corresponding source are directed to that loudspeaker only. Low frequencies that are directed to the subwoofer(s) are from the program source LFE channel, and from other channels where the speakers are set to SMALL.

LFE+Main:

Low frequencies from speaker channels that have been set to LARGE are reproduced from those speakers as well as from the subwoofer(s). Depending upon the characteristics of the LARGE main speakers, this mode may provide a more even low frequency response throughout the listening room.

3 Press the ENTER button to enter the setting.

- The "Speaker Setup" menu reappears.



Assignment of low frequency signal range

- The only signals produced from the subwoofer channel are LFE signals (during playback of Dolby Digital or DTS signals) and the low frequency signal range of channels set to "Small" in the setup menu. The low frequency signal range of channels set to "Large" are produced from those channels.

Subwoofer Setup

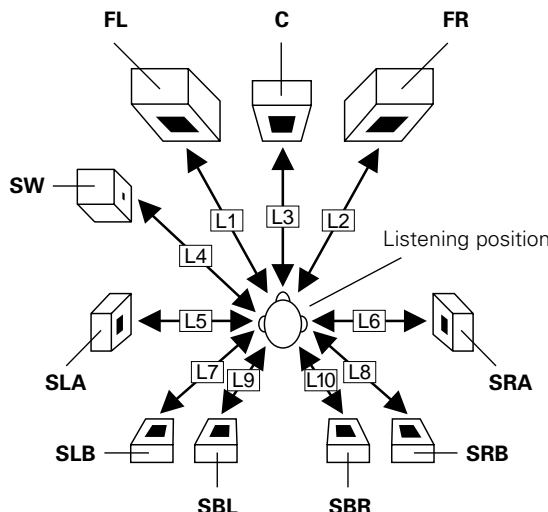
- The subwoofer mode setting is only valid when and "Yes" is set for the subwoofer in the "Speaker Configuration" settings (page 75).
- When the input signal is analog or a PCM signal not including LFE signals, if "LFE" is selected, the low frequency component is not output from the subwoofer. To output the subwoofer channel, select "LFE+Main".

Setting the Distance

- Input the distance between the listening position and the different speakers to set the delay time for the surround mode.

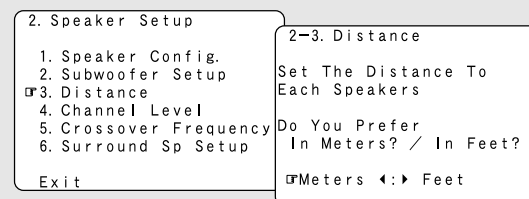
Preparations:

Measure the distances between the listening position and the speakers (L1 to L10 on the diagram at the below).



1 Press the CURSOR Δ or ∇ button to select the "Distance" at the "Speaker Setup" menu, then press the ENTER button.

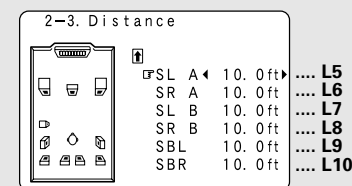
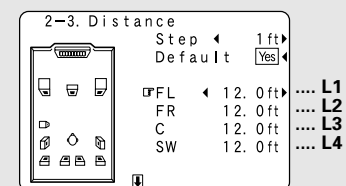
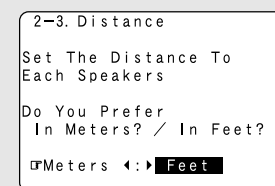
- The "Distance" screen appears.



2 Press the CURSOR \triangleleft or \triangleright button to select the desired unit, "Meters" or "Feet".

- The "Distance" screen appears automatically.

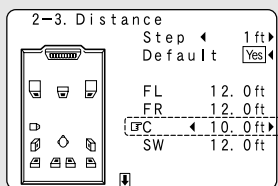
Example: When "Feet" is selected



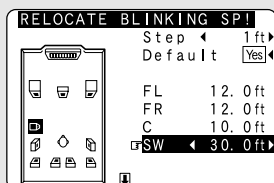
3 Press the CURSOR Δ or ∇ button to select the speaker to be set.

4 Press the **CURSOR** ◀ or ▶ button to set the distance between the center speaker and listening position.

Example: When the distance is set to 10 feet for the center speaker



- ※ The distance changes in units of 0.1 foot (0.03 meters) or 1 foot (0.3 meters) each time the button is pressed. Select the value closest to the measured distance.
- ※ If “Yes” is selected for “Default”, the settings are automatically reset to the default values.
- ※ When “Step” is selected, you can select the unit of “1 ft (0.1 m)” or “0.1 ft (0.01 m)”.
- ※ **Please note that the difference of distance for every speaker should be 20 ft (6.0 m) or less. If you set an invalid distance, a CAUTION notice, such as screen right will appear. In this case, please relocate the blinking speaker(s) so that its distance is no larger than the value shown in highlighted line.**



5 Press the **ENTER** button to enter the setting.

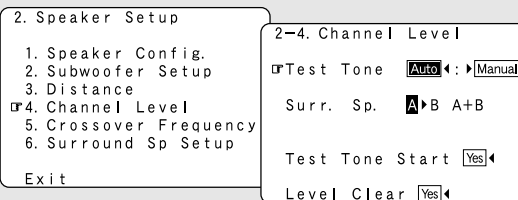
- The “Speaker Setup” menu reappears.
- ※ The AVR-3806 automatically sets the optimum surround delay time for the listening room.

Setting the Channel Level

- Use this setting to adjust so that the playback level between the different channels is equal.
- From the listening position, listen to the test tones produced from the speakers to adjust the level.

1 Press the **CURSOR** △ or ▽ button to select the “Channel Level” at the “Speaker Setup” menu, then press the **ENTER** button.

- The “Channel Level” screen appears.



2 Press the **CURSOR** ◀ or ▶ button to select the “Auto” or “Manual”.

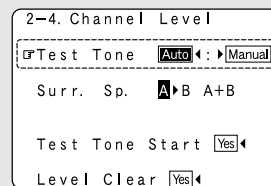
Auto:

Adjust the level while listening to the test tones produced automatically from each speaker.
Test tones are automatically emitted from each speaker.

Manual:

Select the speaker from which you want to produce the test tone to adjust the level.

Example: When the “Auto” mode is selected



3 Press the **CURSOR** △ or ▽ button to select the “Surr. Sp.”, then press the **CURSOR** ◀ or ▶ button to select the surround speaker(s) from which you want to produce the test tone (A, B or A+B).

Surr. Sp. : A

Adjusts the balance of the playback level between the channels when using surround speaker A.

Surr. Sp. : B

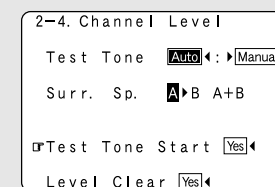
Adjusts the balance of the playback level between the channels when using surround speaker B.

Surr. Sp. : A + B

Adjusts the balance of the playback level between the channels when using surround speakers A and B at the same time.

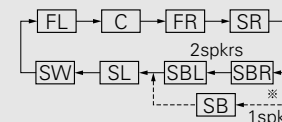
- ※ The “Surr. Sp.” can only be selected when both surround speakers A and B have been selected at the System Setup Menu (when both A and B have been set to “Large” or “Small”).

4 Press the **CURSOR** △ or ▽ button to select the “Test Tone Start”, then press the **CURSOR** ◀ button to select the “Yes”.



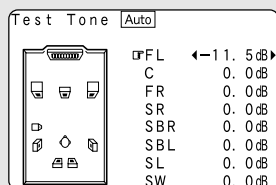
5 When “Auto” mode is selected: 1 Press the **CURSOR** ◀ or ▶ button to adjust all the speakers to the same volume.

- The test tones are emitted from each speaker in the following order, at 4-second intervals during the first and second time, and at the 2-second intervals during the third and subsequent cycles:



- ※ When the surround back speaker setting is set to “1spkr” for “Speaker Configuration”, this is set to “SB”.

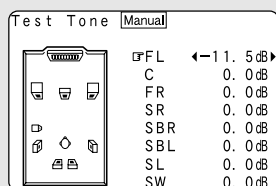
Example: When the volume is set to -11.5 dB while the test tone is being produced from the Front Lch speaker



※ The volume can be adjusted between -12 dB and +12 dB in units of 0.5 dB.

5 When “Manual” mode is selected: Press the **CURSOR** Δ or ∇ button to select the speaker, then press the **CURSOR** \triangleleft or \triangleright button to adjust all the speakers to the same volume.

Example: “Manual” mode is selected.

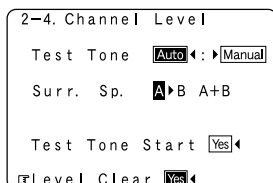


6 Press the **ENTER** button to enter the setting.

- The “Channel Level” screen reappears.



- To cancel the settings, press the **CURSOR** ∇ button to select the “Level Clear” and “Yes” on the “Channel Level” screen, then make the settings again.



- When adjusting the level of an active subwoofer system, you may also need to adjust the subwoofer’s own volume control.
- When you adjust the channel levels while in the system setup channel level mode, the channel level adjustments mode will affect all surround modes. Consider this mode a master channel level adjustment mode.
- After you have completed the system setup channel level adjustments, you can then activate the individual surround modes and adjust channel levels that will be remembered for each of those modes. Then, whenever you activate a particular surround sound mode, your preferred channel level adjustments for just that mode will be recalled. Check the instructions for adjusting channel levels within each surround mode (page 42).
- You can adjust the channel levels for each of the following surround modes: PURE DIRECT/DIRECT, STEREO, DOLBY/DTS SURROUND, 7CH STEREO, WIDE SCREEN, SUPER STADIUM, ROCK ARENA, JAZZ CLUB, CLASSIC CONCERT, MONO MOVIE, VIDEO GAME, MATRIX and VIRTUAL.
- When using either surround speakers A or B, or when using surround speakers A and B at the same time, be sure to adjust the balance of playback levels between each channel for the various selections of “A”, “B” and “A + B”.

■ Adjusting the test tone using the remote control unit

- As described below, this adjustment can be accomplished via the with remote control unit.
- Adjusting with the remote control unit using the test tones is only possible in the “Auto” mode and only effective in the STANDARD (DOLBY/DTS SURROUND) mode. The adjusted levels for the different modes are automatically stored in the memory.

1 Press the **TEST TONE** button.

- Test tones are output from the different speakers.

2 Press the **CURSOR** \triangleleft or \triangleright button to adjust the channel level so that the volume of the test tones is the same for all the speakers.

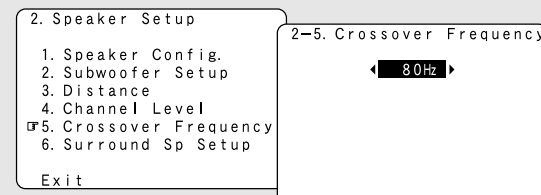
3 After completing the adjustment, press the **TEST TONE** button again.

Setting the Crossover Frequency

- Set the crossover frequency according to the low frequency response characteristics of the various (front, center, surround and surround back) speaker systems.
- If a connected main or surround loudspeaker has a specified -3 dB low frequency response rolloff, adjust the crossover frequency for that speaker to match the specified low frequency response limit – e.g. 80 Hz.
- When a speaker is set to SMALL, low frequencies in that channel that are below the crossover frequency are directed to the system’s subwoofer(s), or to speakers that are set to LARGE, for systems with no connected subwoofer(s).

1 Press the **CURSOR** Δ or ∇ button to select the “Crossover Frequency” at the “Speaker Setup” menu, then press the **ENTER** button.

- The “Crossover Frequency” screen appears.



2 Press the **CURSOR** \triangleleft or \triangleright button to select the frequency.

40, 60, 80, 90, 100, 110, 120, 150, 200, 250 Hz:

Set as desired according to your speakers’ bass playback ability.

Advanced:

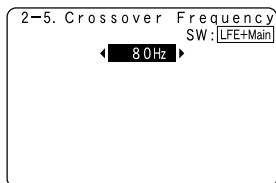
The crossover frequency can be set individually for the different speakers (page 79).

3 Press the **ENTER** button to enter the setting.

- The “Speaker Setup” menu reappears.



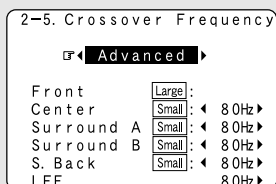
- If “LFE+Main” is set at “Subwoofer Setup”, “SW:LFE+Main” (🔍 page 76) is displayed at the top right of the screen.



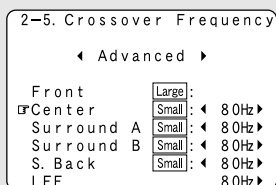
- We recommend using with the crossover frequency set to “80Hz”, but depending on the speaker, setting it to a different frequency may improve frequency response near the crossover frequency.
- The crossover frequency mode is valid only when subwoofer is set to ON, and when one or more speakers are set to SMALL, as described in section “Speaker Configuration” settings (🔍 page 75).

Setting the crossover frequency individually for the different channels

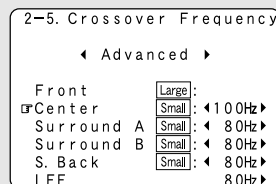
- 1 Press the **CURSOR** ◀ or ▶ button to select the “Advanced” at the “Crossover Frequency” screen.



- 2 Press the **CURSOR** ▲ or ▼ button to select the speaker to be set.



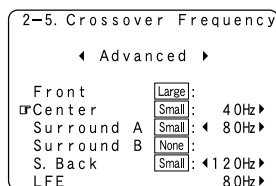
- 3 Press the **CURSOR** ◀ or ▶ button to select the frequency.



- 4 Press the **ENTER** button to enter the setting.
 - The “Speaker Setup” menu reappears.



- If “LFE” is selected at “Subwoofer Setup”, the frequencies can only be selected for speakers set to “Small” at “Speaker Configuration”.

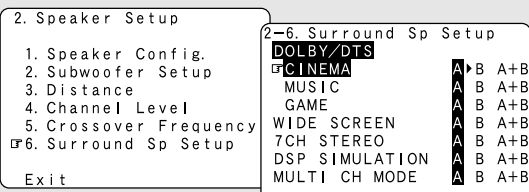


- If “LFE+Main” is set at “Subwoofer Setup”, the frequencies can be selected regardless of the speaker size setting.

Selecting the Surround Speakers for the different surround modes

- This menu is displayed when both surround speakers A and B are used.
- At this screen preset the surround speakers to be used in each surround modes.

- 1 Press the **CURSOR** ▲ or ▼ button to select the “Surround Sp Setup” at the “Speaker Setup” menu, then press the **ENTER** button.
 - The “Surround Sp Setup” screen appears.



- 2 Press the **CURSOR** ▲ or ▼ button to select the surround mode, then press the **CURSOR** ◀ or ▶ button to select the surround speaker.

A:

When surround speakers A is used.

B:

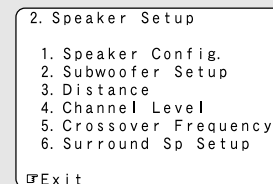
When surround speakers B is used.

A + B:

When both surround speakers A and B are used.

- 3 Press the **ENTER** button to enter the setting.
 - The “Speaker Setup” menu reappears.

- 4 Press the **CURSOR** ▲ or ▼ button to select the “Exit”, then press the **ENTER** button.
 - The “System Setup Menu” reappears.



- For the “WIDE SCREEN” and “7CH STEREO” DSP simulation modes, the surround speakers can be set separately.

About Speaker type setting when using both surround speakers A and B

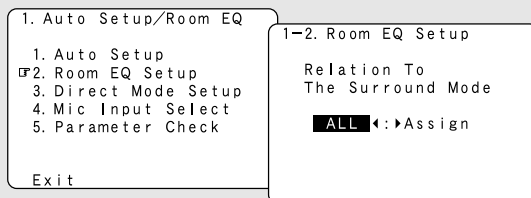
- If “Small” is set for either surround speakers A or B, the output is the same as when “Small” is set for both A and B.

Others Setup

Setting the Room EQ Setup

Select the setting of an Equalizer that has been set with Auto Setup or Manual EQ.

- 1** Press the **CURSOR** Δ or ∇ button to select the “Room EQ Setup” at the “Auto Setup / Room EQ” menu, then press the **ENTER** button.
- The “Room EQ Setup” screen appears.



- 2** Press the **CURSOR** \triangleleft or \triangleright button to select the “All” or “Assign”.

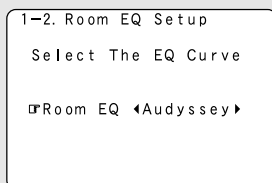
All:

Sets the Equalizer for all surround modes.

Assign:

Sets the Equalizer individually for each surround mode.

- 3** When “All” is selected:
- 1** Press the **ENTER** button.
- The “Room EQ” screen appears.



- 2** Press the **CURSOR** \triangleleft or \triangleright button to select the equalizer setting.

OFF:

The Equalizer is not used.

Audyssey:

Adjusts the frequency response of all speakers to correct the effects of room acoustics.

Front:

Adjusts the frequency response of the surround speakers to match the characteristics of the front channel speakers.

Flat:

Adjusts the frequency response of all speakers to the flattest response. This mode is suitable for multi-channel music surround sound sources.

Manual:

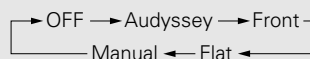
Selects the setting value that was set in the Manual EQ Setup.

For details of the “Manual EQ Setup” (page 70, 71).

- 3** When “Assign” is selected:
- 2** After completing system setup, select the desired equalizer setting pressing the **ROOM EQ** button.

- Equalizer settings for the individual surround modes can be stored in the memory.

※ Whenever the **ROOM EQ** button is pressed, the display switches as shown below.



- 4** Press the **ENTER** button to enter the setting.
- The “Auto Setup / Room EQ” menu reappears.

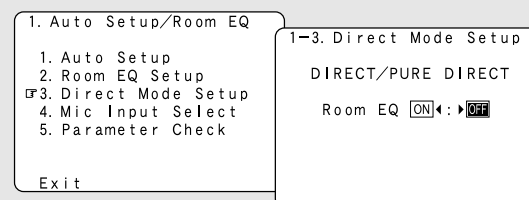


- The Equalizer setting of “Audyssey”, “Front” and “Flat” can be selected after performing the Auto Setup.
- When the speaker set as “None” with the Auto Setup is changed to on manually, the equalizer of “Audyssey”, “Front” and “Flat” cannot be used.
- The Equalizer setting can be selected directly by **ROOM EQ** button.
- When headphones are connected, the Room EQ cannot be used.

Setting the Direct Mode Setup

Perform the ON/OFF setting of Room EQ when the surround mode is “DIRECT” or “PURE DIRECT”.

- 1** Press the **CURSOR** Δ or ∇ button to select the “Room EQ Setup” at the “Auto Setup / Room EQ” menu, then press the **ENTER** button.
- The “Direct mode Setup” screen appears.



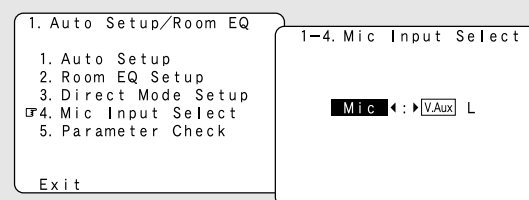
- 2** Press the **CURSOR** \triangleleft or \triangleright button to select the “ON” or “OFF”.

- 3** Press the **ENTER** button to enter the setting.
- The “Auto Setup / Room EQ” menu reappears.

Setting the MIC Input Select

Sets whether the setup microphone is connected to the PIN JACK (V.AUX L channel) connector or the MINI JACK (SETUP MIC) connector.

- 1** Press the **CURSOR** Δ or ∇ button to select the “Mic Input Select” at the “Auto Setup / Room EQ” menu, then press the **ENTER** button.
- The “Mic Input Select” screen appears.



- 2** Press the **CURSOR** \triangleleft or \triangleright button to select the “Mic” or “V.AUX L”.

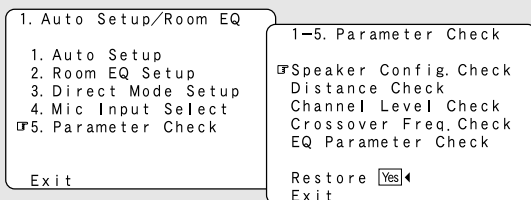
- 3** Press the **ENTER** button to enter the setting.
- The “Auto Setup / Room EQ” menu reappears.

Check the parameter

- The results of the measured items can be checked.
- The EQ parameters that were set in Auto Setup can be checked.
- This item is displayed, after the measurement result of the “Auto Setup / Room EQ” is decided.

1 Press the **CURSOR** Δ or ∇ button to select the “Parameter Check” at the “Auto Setup / Room EQ” menu, then press the **ENTER** button.

- The “Parameter Check” screen appears.

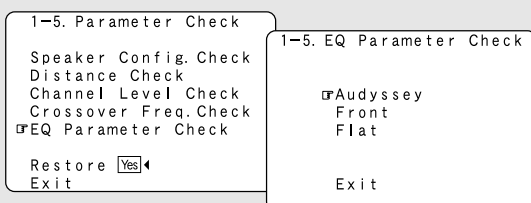


2 Press the **CURSOR** Δ or ∇ button to select the items, then press the **ENTER** button.

- The verification screen appears.
- ※ For instructions on checking the results of each item (page 12, 13).

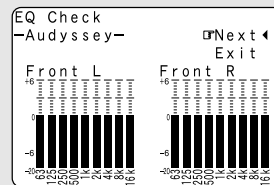
3 Press the **CURSOR** Δ or ∇ button to select the “EQ Parameter Check”, then press the **ENTER** button.

- The “EQ Parameter Check” screen appears.



4 Press the **CURSOR** Δ or ∇ button to select the Equalizer curve, then press the **ENTER** button.

- The “EQ Check” screen appears.

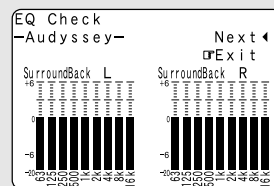


- ※ The display is only an approximate picture of the response and that correction is happening at all frequencies.

5 Press the **CURSOR** Δ or ∇ button to select the speaker channel.

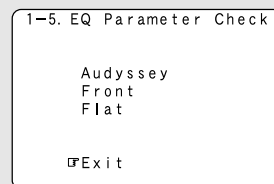
6 If the check ends, pressing the **CURSOR** Δ or ∇ button to select the “Exit”, then press the **ENTER** button.

- The “EQ Parameter Check” screen reappears.

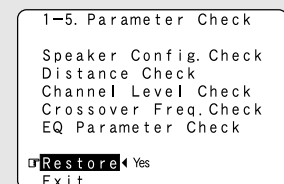


7 Press the **CURSOR** Δ or ∇ button to select the “Exit”, then press the **ENTER** button.

- The “Parameter Check” screen reappears.

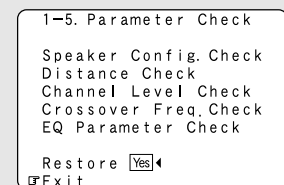


8 The results of the “Auto Setup” procedure can be reset even if the settings have been changed after performing the “Auto Setup” procedure: Press the **CURSOR** Δ or ∇ button to select the “Restore Yes Δ ”, then press the **CURSOR** Δ button.



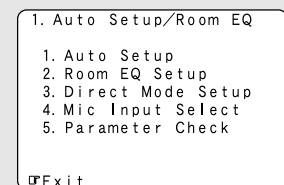
9 Press the **CURSOR** Δ or ∇ button to select the “Exit”, then press the **ENTER** button.

- The “Auto Setup / Room EQ” menu reappears.



10 Press the **CURSOR** Δ or ∇ button to select the “Exit”, then press the **ENTER** button.

- The “System Setup Menu” reappears.



System setup items and default values (set upon shipment from the factory)

1. Auto Setup/Room EQ

Auto Setup / Room EQ			Default settings	Page
1	Auto Setup	This unit performs an analysis of the speaker system and measures the acoustic characteristics of your room to permit an appropriate automatic setting.	–	9~13
2	Room EQ Setup	Set the Room EQ setting with All or Assign for each surround mode.	All, Room EQ = OFF	80
3	Direct Mode Setup	Set the ON/OFF setting of Room EQ, in the case of the surround mode is in "Direct" or "Pure Direct".	OFF	80
4	Mic Input Select	Set this to switch the Mic Input jack for use for Mic or V.AUX L-channel input terminal.	Mic	80

2. Speaker Setup

Speaker Setup				Default settings								Page								
1	Speaker Configuration	Input the combination of speakers in your system and their corresponding sizes (SMALL for regular speakers, LARGE for full-size, full-range) to automatically set the composition of the signals output from the speakers and the frequency response.		Front Sp.		Center Sp.		Subwoofer		Surround Sp. A / B		Surround Back Sp.		75						
				Large		Small		Yes		Small		Small / 2spkrs								
2	Subwoofer Setup	This selects the subwoofer for playing deep bass signals.		LFE										76						
3	Distance	This parameter is for optimizing the timing with which the audio signals are produced from the speakers and subwoofer according to the listening position.		Front L & R		Center		Subwoofer		Surround L & R (A)		Surround L & R (B)		Surround Back		76, 77				
				12 ft (3.6 m)		12 ft (3.6 m)		12 ft (3.6 m)		10 ft (3.0 m)		10 ft (3.0 m)		10 ft (3.0 m)						
4	Channel Level	This adjusts the volume of the signals output from the speakers and subwoofer for the different channels in order to obtain optimum effects.		Front L	Front R	Center		Surround L		Surround R		Surround Back L		Surround Back R		Subwoofer		77, 78		
				0 dB	0 dB	0 dB		0 dB		0 dB		0 dB		0 dB		0 dB				
5	Crossover Frequency	Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer.		80Hz										78, 79						
6	Surround Speaker Setup	Use this function when using multiple surround speaker combinations for more ideal surround sound. Once the combinations of surround speakers to be used for the different surround modes are preset, the surround speakers are selected automatically according to the surround mode.		Surround mode		DOLBY/ DTS CINEMA		DOLBY/ DTS MUSIC		DOLBY GAME		WIDE SCREEN		7 CH STEREO		DSP SIMULATION		MULTI CH MODE		79
				Surround speaker		A		A		A		A		A		A		A		

3. Audio Input Setup

Audio Input Setup				Default settings										Page		
1	Digital In Assign	This assigns the digital input terminals for the different input sources.		Input source	CD	DVD	VDP	TV	DBS	VCR-1	VCR-2	CDR / TAPE	V.AUX	63		
				Digital Inputs	COAX 1	COAX 2	OPT 1	OFF	OPT 2	OPT 3	OFF	OPT 4	OPT 5			
2	EXT.IN Setup	Set the Ext.In terminals playback method.			Surr.Sp = Surr.A, SW Level = +15dB										63, 64	
3	Input Function Lev.	The playback level is corrected individually for the different input sources.			TUNER	PHONO	CD	CDR / TAPE	DVD	VDP	TV	DBS	VCR-1	VCR-2	V.AUX	64
					0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	
4	Function Rename	The names of the different input source can be changed as desired and displayed on the display.			TUNER	PHONO	CD	CDR / TAPE	DVD	VDP	TV	DBS	VCR-1	VCR-2	V.AUX	64
5	Tuner Presets	Auto Preset Memory	FM stations are received automatically and stored in the memory.	A1 ~ A8	87.5/89.1/98.1/107.9/90.1/90.1/90.1 MHz										65	
				B1 ~ B8	520/600/1000/1400/1500/1710 kHz, 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											
		Preset Skip	Preset channels that are not used often can be skipped.	All preset channels = ON										65		
Preset Name	The preset channels can be given the names you want.	-										65, 66				

4. Video Setup

Video Setup			Default settings							Page
1	HDMI In Assign	The HDMI input terminals are assigned for the different input sources. Select the HDMI audio signal playback method.	DVD	VDP	TV	DBS	VCR-1	VCR-2	V.AUX	66, 67
			NONE	NONE	NONE	NONE	NONE	NONE	NONE	
2	Component In Assign	This assigns the component video input terminals for the different input sources.	DVD	VDP	TV	DBS	VCR-1	VCR-2	V.AUX	67
			1-RCA	NONE	2-RCA	3-RCA	NONE	NONE	NONE	
3	Video Convert	This sets whether or not to use the video conversion function.	ON							67
4	HDMI Out Setup	This sets whether or not to use the function for converting analog video (composite video, S-Video or component video) signals into HDMI signals. When using this conversion function, set the color format and video range of the signals output from the HDMI terminal.	Convert = ON, Color Space = Y Cb Cr, RGB Mode = Normal							67, 68
5	Audio Delay	Set the audio delay timing to synchronize the sound and video.	0 ms							68
6	On Screen Display	This sets whether or not to display the on-screen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated.	Function/Mode = ON, Master Volume = ON, Mode = Mode 1							68, 69

5. Advanced Playback

Advanced Playback			Default settings	Page
1	2ch Direct/Stereo	The speaker settings can be changed specifically for playing in the 2-channel direct or stereo mode.	Basic	69
2	Dolby Digital Setup	Turn the audio compression on or off when down-mixing Dolby Digital signals.	OFF	70
3	Auto Surround Mode	Set the Auto surround mode function.	Auto Surround Mode = ON	70
4	Manual EQ Setup	This parameter is for optimizing the Room EQ with which the audio signals are produced from the speakers.	All Channels and Frequency = 0 dB	70, 71

6. Option Setup

Option Setup			Default settings										Page		
1	Power Amp Assign	To suit your preference, a surround back channel's power amplifier can be assigned to the front channel for bi-amp playback, ZONE2 or ZONE3.	S. Back										72		
2	Volume Control	This sets the volume level of each zone output. Volume Limit: This sets the upper limit for the master volume. Power On Level: This sets the volume level upon switching on the power of each zone. Mute Level: This sets the amount of attenuation of the audio output when each zone is muted. Volume Level: This sets whether the output level of ZONE2 is fixed or variable.	Main	Vol.Limit = OFF, P. On Lev. = LAST, Mute Lev. = FULL										72, 73	
			Zone2	Vol.Lev. = VAR, Vol.Limit = OFF, P. On Lev. = LAST, Mute Lev. = FULL											
3	Trigger Out Setup	This sets the Trigger Out output for the different input sources. If "ZONE = MAIN" is selected, settings can be made for the individual surround modes.	Trigger Out 1	ZONE = MAIN, All Surround Modes = ON								73, 74			
				TUNER	PHONO	CD	CDR / TAPE	DVD	VDP	TV	DBS		VCR-1	VCR-2	V.AUX
				OFF	OFF	OFF	OFF	ON	ON	ON	ON		ON	ON	
			Trigger Out 2	ZONE = 2											
				TUNER	PHONO	CD	CDR / TAPE	DVD	VDP	TV	DBS		VCR-1	VCR-2	V.AUX
			ON	ON	ON	ON	ON	ON	ON	ON	ON				
4	Setup Lock	This sets whether or not to lock the system setup settings so that they cannot be changed.	Setup Lock = OFF										74		

Troubleshooting

If a problem should arise, first check the following.

1. Are the connections correct?

2. Have you operated the receiver according to the Operating Instructions?

3. Are the speakers and other components operating properly?

If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
Display not lit and sound not produced when POWER switch set to on.	<ul style="list-style-type: none"> Power supply cord not plugged in securely. 	<ul style="list-style-type: none"> Check the insertion of the power supply cord plug. 	25
Display lit but sound not produced.	<ul style="list-style-type: none"> Speaker cables not securely connected. 	<ul style="list-style-type: none"> Connect securely. 	7
	<ul style="list-style-type: none"> FUNCTION knob position is not appropriate. 	<ul style="list-style-type: none"> Switch to the proper position. 	27
	<ul style="list-style-type: none"> Volume control set to minimum. 	<ul style="list-style-type: none"> Turn volume up to suitable level. 	27
	<ul style="list-style-type: none"> MUTING is on. No digital signal is being input. 	<ul style="list-style-type: none"> Switch off MUTING. Properly select a digital signal input source. 	28 63
Nothing is displayed on monitor.	<ul style="list-style-type: none"> AVR-3806's video output terminals and monitor's input terminals are not properly connected. 	<ul style="list-style-type: none"> Check that the connections are correct. 	8, 14 ~ 25
	<ul style="list-style-type: none"> Monitor TV's input setting is wrong. 	<ul style="list-style-type: none"> Set the TV's input selector to the terminals to which video signals are connected. 	—
	<ul style="list-style-type: none"> The PURE DIRECT mode is set. 	<ul style="list-style-type: none"> Set a surround mode other than the PURE DIRECT mode. 	32
No DTS sound is produced.	<ul style="list-style-type: none"> DVD player's audio output setting is not set to bit stream. 	<ul style="list-style-type: none"> Make the DVD player's initial settings. 	—
	<ul style="list-style-type: none"> DVD player is not DTS-compatible. 	<ul style="list-style-type: none"> Use a DTS-compatible player. 	—
	<ul style="list-style-type: none"> AVR-3806's input setting is set to analog 	<ul style="list-style-type: none"> Set to AUTO or DTS. 	29
Copying from DVD to VCR is not possible.	<ul style="list-style-type: none"> Copying between a source such as DVD and a VCR is not usually possible, as DVDs are often encoded with copy-protection signals that prevent VCR recording. 	<ul style="list-style-type: none"> Copying is not possible. 	—
No sound is produced from subwoofer.	<ul style="list-style-type: none"> Subwoofer's power is not on. 	<ul style="list-style-type: none"> Turn on the power. 	—
	<ul style="list-style-type: none"> Subwoofer's initial setting is set to "NO". 	<ul style="list-style-type: none"> Set the setting to "YES". 	75
	<ul style="list-style-type: none"> Subwoofer's output is not connected. The subwoofer's channel volume level is set to "OFF". 	<ul style="list-style-type: none"> Connect properly. Turn the subwoofer's channel volume level up. 	7, 25 42

Troubleshooting

Symptom	Cause	Measures	Page
No test tones are produced.	<ul style="list-style-type: none"> Surround mode is set to a mode other than Dolby Surround. 	<ul style="list-style-type: none"> Set to Dolby Surround. 	—
No sound is produced from surround speakers.	<ul style="list-style-type: none"> Surround mode is set to "STEREO". 	<ul style="list-style-type: none"> Set to a mode other than "STEREO". 	—
This unit does not operate properly when remote control unit is used.	<ul style="list-style-type: none"> Batteries dead. 	<ul style="list-style-type: none"> Replace with new batteries. 	3
	<ul style="list-style-type: none"> Remote control unit too far from this unit. 	<ul style="list-style-type: none"> Move closer. 	3
	<ul style="list-style-type: none"> Obstacle between this unit and remote control unit. 	<ul style="list-style-type: none"> Remove obstacle. 	3
	<ul style="list-style-type: none"> Different button is being pressed. ⊕ and ⊖ ends of batteries inserted in reverse. 	<ul style="list-style-type: none"> Press the proper button. Insert batteries properly. 	— 3
An image is not projected with an HDMI connection.	<ul style="list-style-type: none"> AVR-3806's HDMI output terminals and monitor's input terminals are not properly connected. 	<ul style="list-style-type: none"> Check the HDMI connection. 	16
	<ul style="list-style-type: none"> No HDMI signal is being input. 	<ul style="list-style-type: none"> Properly select HDMI signal input source. 	66, 67
	<ul style="list-style-type: none"> The connected monitor equipment or other equipments do not support HDCP. 	<ul style="list-style-type: none"> The AVR-3806 will not output video signal unless the other equipment supports HDCP. 	16
	<ul style="list-style-type: none"> The output format of the connected player (HDMI FORMAT) does not match the supported input format of connected monitor equipments. 	<ul style="list-style-type: none"> Check whether the output format of the connected player (HDMI FORMAT) matches the supported input format of connected monitor equipments. 	16
The HDMI audio is not output.	<ul style="list-style-type: none"> The AVR-3806 does not play HDMI audio signals. 	<ul style="list-style-type: none"> Set the HDMI audio playback setting at the "HDMI In Assign" settings to "AMP". 	66, 67
	<ul style="list-style-type: none"> The HDMI audio signals are not output from the connected monitor device. 	<ul style="list-style-type: none"> Set the HDMI audio playback setting at the "HDMI In Assign" settings to "TV". 	66, 67
Power has turned off and the power indicator is flashing red.	<ul style="list-style-type: none"> The set's internal temperature has risen and the protection circuit has been activated. 	<ul style="list-style-type: none"> Put the AVR-3806 in a well-ventilated place. Turn off the power, then wait for the set to fully cool off before turning the power back on. 	7
	<ul style="list-style-type: none"> The core wires of the speaker cables are touching each other or the AVR-3806's rear panel, activating the protection circuit. 	<ul style="list-style-type: none"> Check the connections of all the speaker cables. 	
	<ul style="list-style-type: none"> AVR-3806 is malfunctioning. 	<ul style="list-style-type: none"> Turn off the power and contact a DENON customer service center. 	
Sound is only produced from the center speaker.	<ul style="list-style-type: none"> You are playing a monaural source (TV, AM radio broadcast, etc.) in the DOLBY/DTS SURROUND mode. 	<ul style="list-style-type: none"> When playing monaural sources, select a surround mode other than DOLBY/DTS SURROUND mode. 	39, 40

Troubleshooting**Troubleshooting**

Symptom	Cause	Measures	Page
"CHECK ANTENNA" is displayed in the XM mode.	• AVR-3806's XM terminal and the XM Connect-and-Play antenna is not properly connected.	• Check that the connection are correct.	23
"NO SIGNAL" is displayed in the XM mode.	• The signal cannot be received.	• Reposition your XM Connect-and-Play antenna.	45
"OFF AIR" is displayed in the XM mode.	• The selected channel is not currently broadcasting.	• Select the another channel.	46
Receiving only XM channels 0 and 1.	• The XM Tuner is not activated.	• Contact XM Radio.	45

Additional Information

Optimum surround sound for different sources

There are currently various types of multi-channel signals (signals or formats with more than two channels).

Types of multi-channel signals

Dolby Digital (including Dolby Digital EX), DTS (including DTS-ES), DVD-Audio, and Super Audio CD.

Note on the above: MUSE 3.1 and MPEG multi-channel audio are not available to North American consumers – same is true for Dolby's AAC.

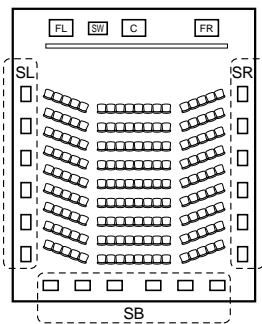
“Source” here does not refer to the type of signal (format) but the recorded content. Sources can be divided into two major categories.

Types of sources

Movie audio:

Signals created to be played in movie theaters. In general sound is recorded to be played in movie theaters equipped with multiple surround speakers, regardless of the format (Dolby Digital, DTS, etc.).

Movie theater sound field

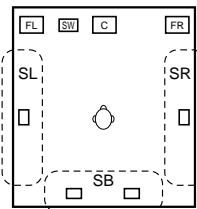


Multiple surround speakers

In this case it is important to achieve the same sense of expansion as in a movie theater with the surround channels. To do so, in some cases the number of surround speakers is increased (to four or eight) or speakers with bipolar or dipolar properties are used.

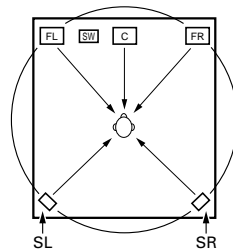
- SL : Surround L channel
- SR : Surround R channel
- SB : Surround B (back) channel

Listening room sound field



Other types of audio:

These signals are designed to recreate a 360° sound field using three to five speakers.



In this case the speakers should surround the listener from all sides to create a uniform sound field from 360°. Ideally the surround speakers should function as “point” sound sources in the same way as the front speakers.

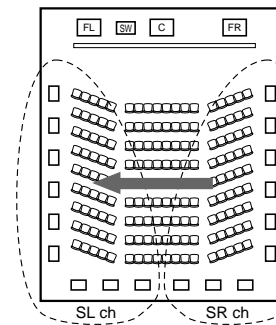
These two types of sources thus have different properties, and different speaker settings, particularly for the surround speakers, are required in order to achieve the ideal sound.

The AVR-3806's surround speaker selection function makes it possible to change the settings according to the combination of surround speakers being used and the surrounding environment in order to achieve the ideal surround sound for all sources. This means that you can connect a pair of bipolar or dipolar surround speakers (mounted on either side of the prime listening position), as well as a separate pair of direct radiating (monopolar) speakers placed at the rear corners of the listening room.

Surround back speakers

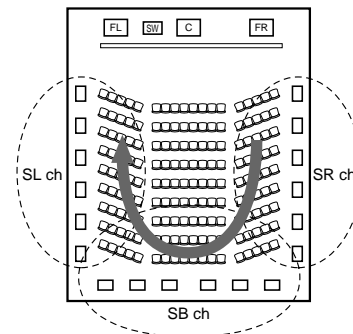
A 6.1-channel system is a conventional 5.1-channel system to which the “surround back” (SB) channel has been added. This makes it easy to achieve sound positioned directly behind the listener, something that was previously difficult with sources designed for conventional multi surround speakers. In addition, 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



Movement of acoustic image from SR to SL

Change of positioning and acoustic image with 6.1-channel systems



Movement of acoustic image from SR to SB to SL

Additional Information

With this set, speaker(s) for 1 or 2 channels are required to achieve a 6.1-channel system (DTS-ES, etc.). Adding these speakers, however, increases the surround effect not only with sources recorded in 6.1 channels but also with conventional 2- to 5.1-channel sources. The WIDE SCREEN mode is a mode for achieving surround sound with up to 7.1 channels using surround back speakers, for sources recorded in conventional Dolby Surround as well as Dolby Digital 5.1-channel and DTS Surround 5.1-channel sources. Furthermore, all the Denon original surround modes (page 39) are compatible with 7.1-channel playback, so you can enjoy 7.1-channel sound with any signal source.

■ Number of surround back speakers

Though the surround back channel only consists of 1 channel of playback signals for 6.1-channel sources (DTS-ES, etc.), we recommend using two speakers. When using speakers with dipolar characteristics in particular, it is essential to use two speakers.

Using two speakers results in a smoother blend with the sound of the surround channels and better sound positioning of the surround back channel when listening from a position other than the center.

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

Using surround back speakers greatly improves the positioning of the sound at the rear. Because of this, the surround left and right channels play an important role in achieving a smooth transition of the acoustic image from the front to the back. As shown on the diagram above, in a movie theater the surround signals are also produced from diagonally in front of the listeners, creating an acoustic image as if the sound were floating in space.

To achieve these effects, we recommend placing the speakers for the surround left and right channels slightly more towards the front than with conventional surround systems. Doing so sometimes increases the surround effect when playing conventional 5.1-channel sources in the 6.1 surround or DTS-ES Matrix 6.1 mode. Check the surround effects of the various modes before selecting the surround mode.

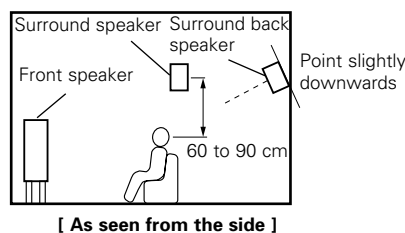
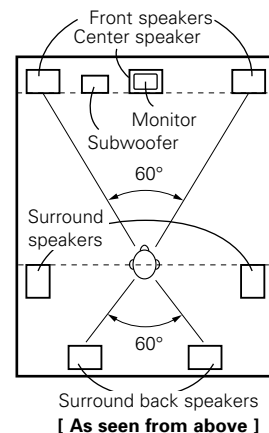
Speaker setting examples

Here we describe a number of speaker settings for different purposes. Use these examples as guides to set up your system according to the type of speakers used and the main usage purpose.

[1] DTS-ES compatible system (using surround back speakers)

① Basic setting for primarily watching movies

This is recommended when mainly playing movies and using regular single way or 2-way speakers for the surround speakers.



- Set the front speakers with their front surfaces as flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the owner's manual for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.

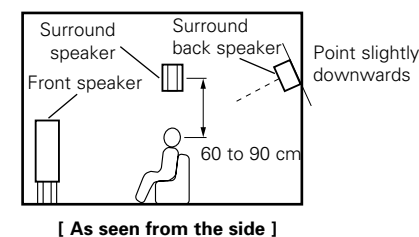
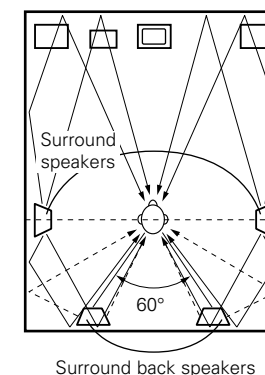
Additional Information

- When using two surround back speakers, place them at the back facing the front at a narrower distance than the front left and right speakers. When using one surround back speaker, place it at the rear center facing the front at a slightly higher position (0 to 20 cm) than the surround speakers.
- We recommend installing the surround back speaker(s) at a slightly downward facing angle. This effectively prevents the surround back channel signals from reflecting off the monitor or screen at the front center, resulting in interference and making the sense of movement from the front to the back less sharp.
- Connect the surround speakers to the surround speaker A terminals on the AVR-3806 and set all settings on the setup menu to "A". (This is the factory default setting (page 79)).

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



Additional Information

- Set the front speakers, center speaker and subwoofer in the same positions as in example (1).
- It is best to place the surround speakers directly at the side or slightly to the front of the viewing position, and 60 to 90 centimeters (2 to 3 feet) above the ears.
- Same as surround back speaker installation method (1). Using dipolar speakers for the surround back speakers as well is more effective.

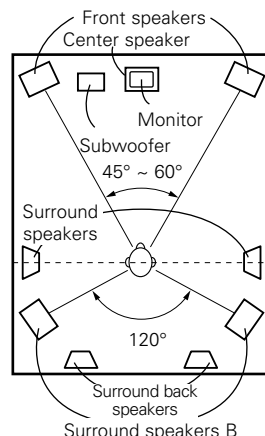
- Connect the surround speakers to the surround speaker A terminals on the AVR-3806 and set all settings on the setup menu to "A". (This is the factory default setting. (🔧 page 82)).
- The signals from the surround channels reflect off the walls as shown on the diagram at the left, creating an enveloping and realistic surround sound presentation.

For multi-channel music sources however, the use of bipolar or dipolar speakers mounted at the sides of the listening position may not be satisfactory in order to create a coherent 360 degree surround sound field. Connect another pair of direct radiating speakers as described in example (3) and place them at the rear corners of the room facing towards the prime listening position.

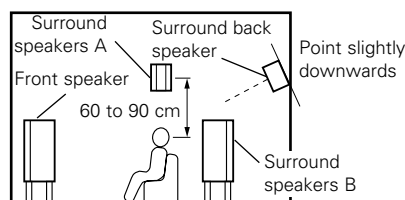
③ When using different surround speakers for movies and music

To achieve more effective surround sound for both movies and music, use different sets of surround speakers and different surround modes for the two types of sources.

- Set the front speakers slightly wider apart than the setup for watching movies only and point them toward the listening position in order assure clear positioning of the sound.
- Set the center speaker in the same positions as in example (1).
- Set surround speakers A for watching movies in the positions described in example (1) or (2), depending on the types of speakers used.
- Set surround speakers B for playing multi-channel music at the same height as the front speakers and slightly at an angle to the rear of the listening position, and point them toward the listening position.
- Connect the surround speakers for watching movies to the surround speaker A terminals on the AVR-3806, the surround speakers for playing multi-channel music to the surround speaker B terminals. Set the surround speaker selection on the setup menu (🔧 page 79).



[As seen from above]

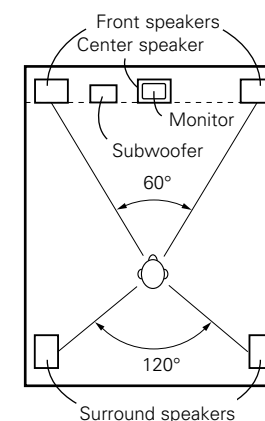


[As seen from the side]

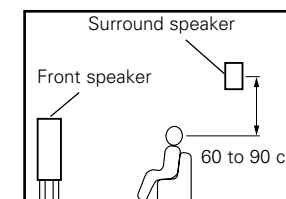
Additional Information

[2] When not using surround back speakers

- Set the front speakers with their front surfaces as flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the owner's manual for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.
- Connect the surround speakers to the surround speaker A terminals on the AVR-3806 and set all settings on the setup menu to "A". (This is the factory default setting. (🔧 page 82)).



[As seen from above]



[As seen from above]

Surround

The AVR-3806 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.

[1] Dolby Surround

① Dolby Digital

Dolby Digital is the multi-channel digital signal format developed by Dolby Laboratories.

Dolby Digital consists of up to “5.1” channels - front left, front right, center, surround left, surround right, and an additional channel exclusively reserved for additional deep bass sound effects (the Low Frequency Effects – LFE – channel, also called the “.1” channel, containing bass frequencies of up to 120 Hz).

Unlike the analog Dolby Pro Logic format, Dolby Digital's main channels can all contain full range sound information, from the lowest bass, up to the highest frequencies – 22 kHz. The signals within each channel are distinct from the others, allowing pinpoint sound imaging, and Dolby Digital offers tremendous dynamic range from the most powerful sound effects to the quietest, softest sounds, free from noise and distortion.



■ Dolby Digital and Dolby Pro Logic

Comparison of home surround systems	Dolby Digital	Dolby Pro Logic
No. recorded channels (elements)	5.1 ch	2 ch
No. playback channels	5.1 ch	4 ch
Playback channels (max.)	L, R, C, SL, SR, SW	L, R, C, S (SW - recommended)
Audio processing	Digital discrete processing Dolby Digital encoding/decoding	Analog matrix processing Dolby Surround
High frequency playback limit of surround channel	20 kHz	7 kHz

■ Dolby Digital compatible media and playback methods


Marks indicating Dolby Digital compatibility:  .

The following are general examples. Also refer to the player's operating instructions.

Media	Dolby Digital output terminals	Playback method (reference page)
DVD ※ 1	Optical or coaxial digital output (same as for PCM) ※ 1	Set the input mode to “AUTO” ( page 29).
Others (satellite broadcasts, CATV, etc.)	Optical or coaxial digital output (same as for PCM)	Set the input mode to “AUTO” ( page 29).

※ 1: Some DVD digital outputs have the function of switching the Dolby Digital signal output method between “bit stream” and “(convert to) PCM”. When playing in Dolby Digital surround on the AVR-3806, switch the DVD player's output mode to “bit stream”. In some cases players are equipped with both “bit stream + PCM” and “PCM only” digital outputs. In this case connect the “bit stream + PCM” terminals to the AVR-3806.

② Dolby Pro LogicII

- Dolby Pro LogicII is a new multi-channel playback format developed by Dolby Laboratories using feedback logic steering technology and offering improvements over conventional Dolby Pro Logic circuits.
- Dolby Pro LogicII can be used to decode not only sources recorded in Dolby Surround (※) but also regular stereo sources into five channels (front left, front right, center, surround left and surround right) to achieve surround sound.
- Whereas with conventional Dolby Pro Logic the surround channel playback frequency band was limited, Dolby Pro LogicII offers a wider band range (20 Hz to 20 kHz or greater). In addition, the surround channels were monaural (the surround left and right channels were the same) with previous Dolby Pro Logic, but Dolby Pro LogicII they are played as stereo signals.
- Various parameters can be set according to the type of source and the contents, so it is possible to achieve optimum decoding ( page 36).

③ Dolby Pro LogicIIx

- Dolby Pro LogicIIx furthers the matrix decoding technology of Dolby Pro LogicII to decode audio signals recorded on two channels into up to 7.1 playback channels, including the surround back channel. Dolby Pro LogicIIx also allows 5.1-channel sources to be played in up to 7.1 channels. The mode can be selected according to the source. The Music mode is best suited for playing music, the Cinema mode for playing movies, and the Game mode for playing games. The Game mode can only be used with 2-channel audio sources.

※ Sources recorded in Dolby Surround

- These are sources in which three or more channels of surround have been recorded as two channels of signals using Dolby Surround encoding technology.
- Dolby Surround is used for the sound tracks of movies recorded on DVDs, LDs and video cassettes to be played on stereo VCRs, as well as for the stereo broadcast signals of FM radio, TV, satellite broadcasts and cable TV.
- Decoding these signals with Dolby Pro Logic makes it possible to achieve multi-channel surround playback. The signals can also be played on ordinary stereo equipment, in which case they provide normal stereo sound.
- There are two types of DVD Dolby Surround recording signals.
 - 2-channel PCM stereo signals
 - 2-channel Dolby Digital signals

■ Sources recorded in Dolby Surround are indicated with the logo mark shown below

Dolby Surround support mark:  .

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

[2] DTS Digital Surround

DTS Digital Surround (also called simply DTS) is a multi-channel digital signal format developed by Digital Theater Systems.

DTS offers the same “5.1” playback channels as Dolby Digital (front left, front right and center, surround left and surround right) as well as the stereo 2-channel mode. The signals for the different channels are fully independent, eliminating the risk of deterioration of sound quality due to interference between signals, crosstalk, etc.

DTS features a relatively higher bit rate as compared to Dolby Digital (1234 kbps for CDs and LDs, 1536 kbps for DVDs) so it operates with a relatively low compression rate. Because of this the amount of data is great, and when DTS playback is used in movie theaters, a separate CD-ROM synchronized with the film is played.

With LDs and DVDs, there is of course no need for an extra disc; the pictures and sound can be recorded simultaneously on the same disc, so the discs can be handled in the same way as discs with other formats.



There are also music CDs recorded in DTS. These CDs include 5.1-channel surround signals (compared to two channels on current CDs). They do not include picture data, but they offer surround playback on CD players that are equipped with digital outputs (PCM type digital output required).


DTS surround track playback offers the same intricate, grand sound as in a movie theater, right in your own listening room.

■ DTS compatible media and playback methods

Marks indicating DTS compatibility:  and .

The following are general examples. Also refer to the player's operating instructions.

Media	DTS Digital output terminals	Playback method (reference page)
CD	Optical or coaxial digital output (same as for PCM) ※ 2	Set the input mode to “AUTO” or “DTS” ( page 29). Never set the mode to “ANALOG” or “PCM”. ※ 1
DVD	Optical or coaxial digital output (same as for PCM) ※ 3	Set the input mode to “AUTO” or “DTS” ( page 29).

- ※ 1: DTS signals are recorded in the same way on CDs and LDs as PCM signals. Because of this, the un-decoded DTS signals are output as random “hissy” noise from the CD or LD player's analog outputs. If this noise is played with the amplifier set at a very high volume, it may possibly cause damage to the speakers. To avoid this, be sure to switch the input mode to “AUTO” or “DTS” before playing CDs or LDs recorded in DTS. Also, never switch the input mode to “ANALOG” or “PCM” during playback. The same holds true when playing CDs or LDs on a DVD player or LD/DVD compatible player. For DVDs, the DTS signals are recorded in a special way so this problem does not occur.
- ※ 2: The signals provided at the digital outputs of a CD or LD player may undergo some sort of internal signal processing (output level adjustment, sampling frequency conversion, etc.). In this case the DTS-encoded signals may be processed erroneously, in which case they cannot be decoded by the AVR-3806, or may only produce noise. Before playing DTS signals for the first time, turn down the master volume to a low level, start playing the DTS disc, then check whether the DTS indicator on the AVR-3806 ( page 33) lights before turning up the master volume.
- ※ 3: A DVD player with DTS-compatible digital output is required to play DTS DVDs. A DTS Digital Output logo is featured on the front panel of compatible DVD players. Recent DENON DVD player models feature DTS-compatible digital output – consult the player's owner's manual for information on configuring the digital output for DTS playback of DTS-encoded DVDs.

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[3] DTS-ES

DTS-ES is a new multi-channel digital signal format developed by Digital Theater Systems Inc. While offering high compatibility with the conventional DTS Digital Surround format, DTS-ES greatly improves the 360-degree surround impression and space expression thanks to further expanded surround signals. This format has been used professionally in movie theaters since 1999.

In addition to the 5.1 surround channels (FL, FR, C, SL, SR and LFE), DTS-ES also offers the SB (Surround Back, sometimes also referred to as “surround center”) channel for surround playback with a total of 6.1 channels. DTS-ES includes two signal formats with different surround signal recording methods, as described below.

■ DTS-ES™ Discrete 6.1

DTS-ES Discrete 6.1 is the newest recording format. With it, all 6.1 channels (including the SB channel) are recorded independently using a digital discrete system. The main feature of this format is that because the SL, SR and SB channels are fully independent, the sound can be designed with total freedom and it is possible to achieve a sense that the acoustic images are moving about freely among the background sounds surrounding the listener from 360 degrees.

Though maximum performance is achieved when sound tracks recorded with this system are played using a DTS-ES decoder, when played with a conventional DTS decoder the SB channel signals are automatically down-mixed to the SL and SR channels, so none of the signal components are lost.

■ DTS-ES™ Matrix 6.1

With this format, the additional SB channel signals undergo matrix encoding and are input to the SL and SR channels beforehand. Upon playback they are decoded to the SL, SR and SB channels. The performance of the encoder used at the time of recording can be fully matched using a high precision digital matrix decoder developed by DTS, thereby achieving surround sound more faithful to the producer's sound design aims than with conventional 5.1- or 6.1-channel systems.

In addition, the bit stream format is 100% compatible with conventional DTS signals, so the effect of the Matrix 6.1 format can be achieved even with 5.1-channel signal sources. Of course it is also possible to play DTS-ES Matrix 6.1 encoded sources with a DTS 5.1-channel decoder.

When DTS-ES Discrete 6.1 or Matrix 6.1 encoded sources are decoded with a DTS-ES decoder, the format is automatically detected upon decoding and the optimum playing mode is selected. However, some Matrix 6.1 sources may be detected as having a 5.1-channel format, so the DTS-ES Matrix 6.1 mode must be set manually to play these sources. (For instructions on selecting the surround mode (ⓘ page 35).)

The DTS-ES decoder includes another function, the DTS Neo:6 surround mode for 6.1-channel playback of digital PCM and analog signal sources.

■ DTS Neo:6™ surround

This mode applies conventional 2-channel signals to the high precision digital matrix decoder used for DTS-ES Matrix 6.1 to achieve 6.1-channel surround playback. High precision input signal detection and matrix processing enable full band reproduction (frequency response of 20 Hz to 20 kHz or greater) for all 6.1 channels, and separation between the different channels is improved to the same level as that of a digital discrete system.

DTS Neo:6 surround includes two modes for selecting the optimum decoding for the signal source.

• DTS Neo:6 Cinema

This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources.

This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).

• DTS Neo:6 Music

This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.

[4] DTS 96/24

The sampling frequency, number of bits and number of channels used for recording of music, etc., in studios has been increasing in recent years, and there are a growing number of high quality signal sources, including 96 kHz/24 bit 5.1-channel sources.

For example, there are high picture/sound quality DVD video sources with 96 kHz/24 bit stereo PCM audio tracks.

However, because the data rate for these audio tracks is extremely high, there are limits to recording them on two channels only, and since the quality of the pictures must be restricted it is common to only include still pictures.

In addition, 96 kHz/24 bit 5.1-channel surround is possible with DVD audio sources, but DVD audio players are required to play them with this high quality.

DTS 96/24 is a multi-channel digital signal format developed by Digital Theater Systems Inc. in order to deal with this situation.

Conventional surround formats used sampling frequencies of 48 or 44.1 kHz, so 20 kHz was about the maximum playback signal frequency. With DTS 96/24, the sampling frequency is increased to 96 or 88.2 kHz to achieve a wide frequency range of over 40 kHz.

In addition, DTS 96/24 has a resolution of 24 bits, resulting in the same frequency band and dynamic range as 96 kHz/24 bit PCM.

As with conventional DTS Surround, DTS 96/24 is compatible with a maximum of 5.1 channels, so sources recorded using DTS 96/24 can be played in high sampling frequency, multiple channel audio with such normal media as DVD videos and CDs.

Thus, with DTS 96/24, the same 96 kHz/24 bit multi-channel surround sound as with DVD-Audio can be achieved while viewing DVD-Video images on a conventional DVD-Video player (※1). Furthermore, with DTS 96/24 compatible CDs, 88.2 kHz/24 bit multi-channel surround can be achieved using normal CD/LD players (※1).

Even with the high quality multi-channel signals, the recording time is the same as with conventional DTS surround sources.

What's more, DTS 96/24 is fully compatible with the conventional DTS surround format, so DTS 96/24 signal sources can be played with a sampling frequency of 48 kHz or 44.1 kHz on conventional DTS or DTS-ES surround decoders (※2).

- ※1 A DVD player with DTS digital output capabilities (for CD/LD players, a player with digital outputs for conventional DTS CDs/LDs) and a disc recorded in DTS 96/24 are required.
- ※2 The resolution is 24 or 20 bits, depending on the decoder.

Audyssey MultEQ XT

There are several factors that can degrade the sound from even the best loudspeakers in a listening room. One of the most important is the interaction of sound from the loudspeakers with large surfaces such as walls, the floor, and the ceiling in the room. Even with careful loudspeaker placement and acoustical treatments, there are significant problems that are caused by room acoustics. These include reflections from nearby surfaces and standing waves that are created between large parallel surfaces in the room.

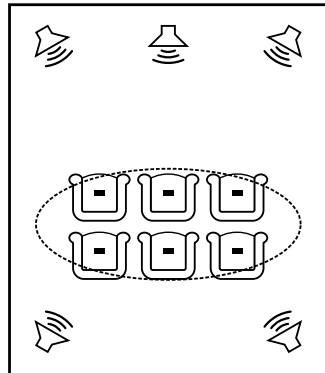
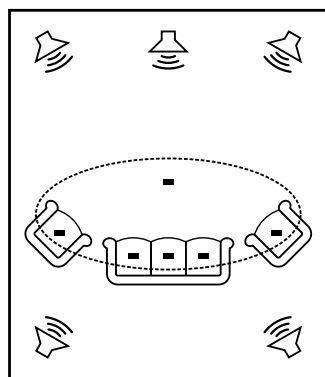
In a home theater the situation is further complicated because there are several listening locations. The effects of room acoustics on the sound arriving at each person's ears are very different and the result is a listening experience that is degraded in a different way for every person in the room. It is not uncommon to have variations in two adjacent seats that are as large as 10 dB, particularly in the frequency range below 250 Hz. The solution to this problem is to apply room correction after precisely measuring how each loudspeaker interacts with the room. Because the room causes variations in the frequency response of the loudspeakers that are so large from seat to seat, it is important to measure each loudspeaker at several locations in the listening room. This should be done even if there is only one listener. Measurement at a single location is not representative of the acoustical problems in the room and will, in most cases, degrade overall performance.

Audyssey MultEQ XT is the only technology that can achieve room correction for multiple listeners in a large listening area. It does so by combining the data collected at several points in the room from each loudspeaker and then applying correction that minimizes the acoustical effects of the room and is matched to the frequency resolution of human perception (known as psychoacoustics). Furthermore, MultEQ XT correction is applied both in frequency and time domains and so there are no artifacts (such as smearing of sound or modal ringing) that are sometimes associated with traditional methods of room equalization.

In addition to correcting frequency response problems over a wide listening area, Audyssey MultEQ XT provides a completely automated sound system set-up process. It identifies how many loudspeakers are connected to the amplifiers and whether they are full-range, satellites, or subwoofers. If there is a least one subwoofer connected, Audyssey MultEQ XT determines the optimum crossover frequency between each satellite and the subwoofer(s). It automatically checks the polarity of each loudspeaker and alerts the user if there are any that may be wired out-of-phase relative to the others. It measures the distance to each loudspeaker from the main listening position and adjusts the delays so that sound from each loudspeaker arrives at the same time. Finally, Audyssey MultEQ XT determines the playback level of each loudspeaker and adjusts the volume trims so that all levels are equal.

Additional Information

The two diagrams below illustrate two examples of microphone placement for two types of seating arrangements. There are six measuring positions shown in each case. Increasing the number of measuring points will provide a better sampling of the listening area and produce better results. The dotted line represents the area in which the room correction provided by Audyssey MultEQ XT is optimal. The microphone must be placed at ear height at each location.




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HDCD® (High Definition Compatible Digital®)

HDCD is an encoding/decoding technology that greatly reduces the distortion that occurs upon digital recording while maintaining compatibility with the conventional CD format, thus expanding the dynamic range and achieving a high resolution. Conventional CDs and HDCD compatible CDs are identified automatically to select the optimum digital processing.



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DENON LINK (DENON Digital Link)

High-grade LPCM 24-bit, 96-kHz, 6-channel or 24-bit, 192-kHz, 2-channel digital input is possible when the AVR-3806 is connected via a shielded twisted pair (STP) cable to a DENON DVD player that supports Denon Digital Link. Since DENON Digital Link uses low-voltage differential signaling (LVDS), transfer capabilities of greater than 1.2 Gbps at a differential voltage of approximately 0.3Vpp are possible.

Additional Information

About HDMI

"HDMI" is the abbreviation of "High Definition Multimedia Interface".

This is a digital interface standard for next generation TVs developed based on the DVI (Digital Visual Interface) used for computer displays, etc., and optimized for use in non-professional equipment. With it, non-compressed digital video and multi-channel audio signals can be transferred with a single connector, eliminating the need to use separate cables for the picture and sound and making it possible to make connectors smaller. HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same way as with DVI.

HDMI

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AL24 Plus (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 of DVD-Audio. AL24 Processing Plus, thoroughly suppresses quantization noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that will bring out all the delicate nuances of the music.

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

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	SUB-WOOFER	D. COMP ^{*1}	LFE ^{*2}	AFDM ^{*1}	SB CH OUT (MODE)	TONE CONTROL	CINEMA EQ.	MODE (DECODER)	ROOM SIZE	EFFECT LEVEL	Dolby Digital NIGHT mode
PURE DIRECT, DIRECT	○	×	×	×	◎	○ (OFF)	○ (0 dB)	×	×	×	×	×	×	×	○ (OFF)
DSD DIRECT	○	×	×	×	◎	×	○ (0 dB)	×	×	×	×	×	×	×	×
DSD MULTI DIRECT	○	◎	◎	◎	◎	×	○ (0 dB)	×	○	×	×	×	×	×	×
MULTI CH DIRECT	○	◎	◎	◎	◎	×	○ (0 dB)	×	○	×	×	×	×	×	×
STEREO	○	×	×	×	◎	○ (OFF)	○ (0 dB)	×	×	○ (0 dB)	×	×	×	×	○ (OFF)
EXT.IN	○	◎	◎	◎	◎	×	×	×	×	×	×	×	×	×	×
MULTI CH IN	○	◎	◎	◎	◎	×	○ (0 dB)	×	○	○ (0 dB)	×	×	×	×	×
WIDE SCREEN	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	○ (OFF)	×	×	○ (ON, 10)	○ (OFF)
DOLBY PRO LOGICIIx	○	◎	◎	◎	◎	○ (OFF)	×	×	○	○ (0 dB)	○ (NOTE3)	○ (CINEMA)	×	×	○ (OFF)
DOLBY PRO LOGICII	○	◎	◎	◎	◎	○ (OFF)	×	×	○	○ (0 dB)	○ (NOTE4)	○ (CINEMA)	×	×	○ (OFF)
DTS NEO:6	○	◎	◎	◎	◎	○ (OFF)	×	×	○	○ (0 dB)	○ (NOTE3)	○ (CINEMA)	×	×	○ (OFF)
DOLBY DIGITAL	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	○ (ON)	○	○ (0 dB)	○ (OFF)	×	×	×	○ (OFF)
DTS SURROUND	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	○ (ON)	○	○ (0 dB)	○ (OFF)	×	×	×	○ (OFF)
7CH STEREO	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	×	×	×	×	○ (OFF)
SUPER STADIUM	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (NOTE1)	×	×	○ (Medium)	○ (10)	○ (OFF)
ROCK ARENA	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (NOTE2)	×	×	○ (Medium)	○ (10)	○ (OFF)
JAZZ CLUB	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	×	×	○ (Medium)	○ (10)	○ (OFF)
CLASSIC CONCERT	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	×	×	○ (Medium)	○ (10)	○ (OFF)
MONO MOVIE	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	×	×	○ (Medium)	○ (10)	○ (OFF)
VIDEO GAME	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	×	×	○ (Medium)	○ (10)	○ (OFF)
MATRIX	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	×	×	×	×	○ (OFF)
VIRTURL	○	×	×	×	◎	○ (OFF)	○ (0 dB)	×	○	○ (0 dB)	×	×	×	×	○ (OFF)

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

○ : Able
 × : Unable
 NOTE1 : BASS +6 dB, TREBLE 0 dB
 NOTE2 : BASS +6 dB, TREBLE +4 dB
 NOTE3 : This parameter is available when the "MODE" is set to "CINEMA".
 NOTE4 : This parameter is available when the "MODE" is set to "CINEMA" or "PL".
 *1: When playing Dolby Digital and DTS signals.
 *2: When playing Dolby Digital, DTS, DVD-audio and Super Audio CD.

Additional Information

Additional Information

Surround Mode	Signals and adjustability in the different modes						
	Parameter (default values are shown in parentheses)						
	DELAY TIME	SUBWOOFER ON/OFF	PRO LOGICII/IIx MUSIC MODE only			NEO:6 MUSIC MODE only	EXT. IN only
			PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE	SW ATT
PURE DIRECT, DIRECT	×	○	×	×	×	×	×
DSD DIRECT	×	○	×	×	×	×	×
DSD MULTI DIRECT	×	×	×	×	×	×	×
MULTI CH DIRECT	×	×	×	×	×	×	×
STEREO	×	×	×	×	×	×	×
EXT.IN	×	×	×	×	×	×	○
MULTI CH IN	×	×	×	×	×	×	×
WIDE SCREEN	×	×	×	×	×	×	×
DOLBY PRO LOGICIIx	×	×	○ (OFF)	○ (3)	○ (3)	×	×
DOLBY PRO LOGICII	×	×	○ (OFF)	○ (3)	○ (3)	×	×
DTS NEO:6	×	×	×	×	×	○ (0.3)	×
DOLBY DIGITAL	×	×	×	×	×	×	×
DTS SURROUND	×	×	×	×	×	×	×
7CH STEREO	×	×	×	×	×	×	×
SUPER STADIUM	×	×	×	×	×	×	×
ROCK ARENA	×	×	×	×	×	×	×
JAZZ CLUB	×	×	×	×	×	×	×
CLASSIC CONCERT	×	×	×	×	×	×	×
MONO MOVIE	×	×	×	×	×	×	×
VIDEO GAME	×	×	×	×	×	×	×
MATRIX	○ (30 msec)	×	×	×	×	×	×
VIRTURL	×	×	×	×	×	×	×

○ : Signal / Adjustable

×

⊙ : Turned on or off by speaker configuration setting

○ : Adjustable

×

×

Differences in surround mode names depending on the input signals

Button		Note	Input signals															
Surround Mode	ANALOG		LINEAR PCM	DTS				DOLBY DIGITAL					DVD-AUDIO			Super Audio CD		
				DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (3, 4, 5ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	176.4/ 192kHz	DSD (multi ch)	DSD (2ch)	
STANDARD																		
DTS SURROUND																		
DTS ES DSCRT6.1		*1	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×	×	
DTS ES MTRX6.1		*1	×	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×	
DTS SURROUND			×	×	○	○	●	×	×	×	×	×	×	×	×	×	×	
DTS 96/24			×	×	×	×	●	×	×	×	×	×	×	×	×	×	×	
DTS + PLIIx CINEMA		*2	×	×	○	○	○	×	×	×	×	×	×	×	×	×	×	
DTS + PLIIx MUSIC		*1	×	×	○	○	○	×	×	×	×	×	×	×	×	×	×	
DTS + NEO:6		*1	×	×	×	○	○	×	×	×	×	×	×	×	×	×	×	
DTS NEO:6 CINEMA			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
DTS NEO:6 MUSIC			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
DOLBY SURROUND																		
DOLBY DIGITAL EX		*1	×	×	×	×	×	×	○	○	○	○	×	×	×	×	×	
DOLBY DIGITAL			×	×	×	×	×	×	○	●	●	●	×	×	×	×	×	
DOLBY DIGITAL+PLIIx CINEMA		*2	×	×	×	×	×	×	● ◎	○	○	○	×	×	×	×	×	
DOLBY DIGITAL+PLIIx MUSIC		*1	×	×	×	×	×	×	○	○	○	○	×	×	×	×	×	
DOLBY PRO LOGICIIx CINEMA			○	○	×	×	×	×	×	×	×	×	●	×	○	×	○	
DOLBY PRO LOGICIIx MUSIC			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
DOLBY PRO LOGICIIx GAME			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
DOLBY PRO LOGICII CINEMA			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
DOLBY PRO LOGICII MUSIC			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
DOLBY PRO LOGICII GAME			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
DOLBY PRO LOGIC			○	○	×	×	×	×	×	×	×	×	○	×	○	×	○	
MULTI CH IN																		
MULTI CH IN			×	×	×	×	×	×	×	×	×	×	×	●	×	×	●	
MULTI IN + PLIIx CINEMA		*2	×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	
MULTI IN + PLIIx MUSIC		*1	×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	

● : Mode selectable in initial status

◎ : Mode fixed when AFDM is ON

○ : Selectable mode

×

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".

Additional Information

Additional Information

Button		Note	Input signals															
Surround Mode	ANALOG		LINEAR PCM	DTS				DOLBY DIGITAL					DVD-AUDIO			Super Audio CD		
				DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (3, 4, 5ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	176.4/ 192kHz	DSD (multi ch)	DSD (2ch)	
DIRECT																		
DIRECT			○	○	○	○	○	○	○	○	○	○	○	×	○	○	×	×
DSD DIRECT			×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI DIRECT			×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH DIRECT			×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	×
M DIRECT + PLIIx CINEMA		*2	×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	×
M DIRECT + PLIIx MUSIC		*1	×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	×
PURE DIRECT																		
PURE DIRECT			○	○	○	○	○	○	○	○	○	○	○	×	○	○	×	×
DSD PURE DIRECT			×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI PURE			×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH PURE DIRECT			×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	×
M PURE D + PLIIx CINEMA		*2	×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	×
M PURE D + PLIIx MUSIC		*1	×	×	×	×	×	×	×	×	×	×	×	○	×	×	○	×
DSP SIMULATION																		
WIDE SCREEN			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
SUPER STADIUM			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
ROCK ARENA			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
JAZZ CLUB			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
CLASSIC CONCERT			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
MONO MOVIE			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
VIDEO GAME			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
MATRIX			○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
7CH STEREO		*3	○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○
STEREO																		
STEREO			●	●	○	○	○	○	○	○	○	○	○	○	●	●	○	●

● : Mode selectable in initial status

○ : Selectable mode

× : Non-selectable mode

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: If the Surround Back speaker setup is set to "None", then "5CH STEREO" is displayed.

Relationship between the video input signal and monitor output according to the video convert settings

Video convert	Input signals				MONITOR OUT			
	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
ON	X	X	X	X	X	X	X	X
	X	X	X	O	VIDEO	VIDEO	VIDEO	VIDEO
	X	X	O	X	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO
	X	X	O	O	S-VIDEO	S-VIDEO	S-VIDEO	S-VIDEO
	X	O (1080p)	X	X	X	COMPONENT	X	X
	X	O (480p ~ 720p)	X	X	COMPONENT	COMPONENT	X	X
	X	O (480i/576i)	X	X	COMPONENT	COMPONENT	COMPONENT	COMPONENT
	X	O (1080p)	X	O	VIDEO	COMPONENT *1	VIDEO	VIDEO
	X	O (480p ~ 720p)	X	O	COMPONENT *1	COMPONENT *1	X *3	VIDEO
	X	O (480i/576i)	X	O	COMPONENT *1	COMPONENT *1	COMPONENT	VIDEO
	X	O (1080p)	O	X	S-VIDEO	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480p ~ 720p)	O	X	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480i/576i)	O	X	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (1080p)	O	O	S-VIDEO	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480p ~ 720p)	O	O	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	X	O (480i/576i)	O	O	COMPONENT *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	X	X	X	HDMI	X	X	X
	O	X	X	O	HDMI *1	VIDEO	VIDEO	VIDEO
	O	X	O	X	HDMI *2	S-VIDEO	S-VIDEO	S-VIDEO
	O	X	O	O	HDMI *2	S-VIDEO	S-VIDEO	S-VIDEO
	O	O (Other than 480i/576i)	X	X	HDMI	COMPONENT	X	X
	O	O (480i/576i)	X	X	HDMI	COMPONENT	COMPONENT	COMPONENT
	O	O (1080p)	X	O	HDMI *1	COMPONENT *1	VIDEO	VIDEO
	O	O (480p ~ 720p)	X	O	HDMI *1	COMPONENT *1	X *3	VIDEO
	O	O (480i/576i)	X	O	HDMI *1	COMPONENT *1	COMPONENT	VIDEO
	O	O (Other than 480i/576i)	O	X	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (480i/576i)	O	X	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (Other than 480i/576i)	O	O	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO
	O	O (480i/576i)	O	O	HDMI *2	COMPONENT *2	S-VIDEO	S-VIDEO

O : Signal input

X : No signal

480p ~ 720p : 480p/576p/1080i/720p



- 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.
- Signals up-converted to HDMI are output to the HDMI monitor with the resolution at which they are input. Note that resolutions of 1080p are not handled.

X

: Not output

*1

: On screen display superimposed on video signal and output.

*2

: On screen display superimposed on S-Video signal and output.

*3

: Video signals are output when the analog to HDMI convert function is set to "OFF".

COMPONENT : On screen display only displayed for **SETUP**, **SURROUND PARAMETER** and **ON SCREEN** buttons.

HDMI

: The on-screen display is displayed when the analog to HDMI convert function is set to "ON".

■

: Video signals are not output when the analog to HDMI convert function is set to "OFF".

Additional Information

Additional Information

Video convert	S-VIDEO MONITOR OUT	Input signals				MONITOR OUT			
		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

×

×

: Not output

*1

: On screen display superimposed on video signal and output.

*2

: On screen display superimposed on S-Video signal and output.

*3

: Video signals are output when the analog to HDMI convert function is set to "OFF".

COMPONENT : On screen display only displayed for **SETUP, SURROUND PARAMETER** and **ON SCREEN** buttons.

HDMI

: The on-screen display is displayed when the analog to HDMI convert function is set to "ON".

Specifications

■ Audio section

• Power amplifier

Rated output:

Front:
120 W + 120 W (8 Ω /ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W + 160 W (6 Ω /ohms, 1 kHz with 0.7 % T.H.D.)

Center:
120 W (8 Ω /ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W (6 Ω /ohms, 1 kHz with 0.7 % T.H.D.)

Surround (A, B):
120 W + 120 W (8 Ω /ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W + 160 W (6 Ω /ohms, 1 kHz with 0.7 % T.H.D.)

Surround Back:
120 W + 120 W (8 Ω /ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W + 160 W (6 Ω /ohms, 1 kHz with 0.7 % T.H.D.)

Dynamic power:

140 W x 2 ch (8 Ω /ohms)
210 W x 2 ch (4 Ω /ohms)

Output terminals:

Front, Center, Surr. Back 6 ~ 16 Ω /ohms
Surround: A or B 6 ~ 16 Ω /ohms
A + B 8 ~ 16 Ω /ohms

• Analog

Input sensitivity / input impedance:

200 mV / 47 k Ω /kohms

Frequency response:

10 Hz ~ 100 kHz: +0, -3 dB (DIRECT mode)

S/N:

102 dB (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
Format — Digital audio interface

Digital input:

• 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 / Maximum output:

150 mV / 8 V

Distortion factor:

0.03% (1 kHz, 3 V)

■ Video section

• Standard video terminals

Input / output level and impedance:

1 Vp-p, 75 Ω /ohms

Frequency response:

5 Hz ~ 10 MHz — +0, -3 dB

• S-Video terminals

Input / output level and impedance:

Y (brightness) signal — 1 Vp-p, 75 Ω /ohms

C (color) signal — 0.286 Vp-p, 75 Ω /ohms

Frequency response:

5 Hz ~ 10 MHz — +0, -3 dB

• Color component video terminal

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 — 0.7Vp-p, 75 Ω /ohms

Frequency response:

5 Hz ~ 100 MHz — +0, -3 dB

■ Tuner section

[FM]

(note: μ V at 75 Ω /ohms, 0 dBf = 1×10^{-15} W)

Receiving Range:

87.5 MHz ~ 107.9 MHz

Usable Sensitivity:

1.0 μ V (11.2 dBf)

50 dB Quieting Sensitivity:

MONO 1.6 μ V (15.3 dBf)

STEREO 23 μ V (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%

[AM]

520 kHz ~ 1710 kHz

18 μ V

■ General

Power supply:

AC 120 V, 60 Hz

Power consumption:

7.1 A

Maximum external dimensions:

434 (W) x 171 (H) x 429 (D) mm (17-3/32" x 6-47/64" x 16-57/64")

Mass:

17.5 kg (38 lbs 9,30 oz)

■ Remote control unit (RC-1024)

Batteries:

LR6/AA Type (two batteries)

External dimensions:

63 (W) x 238 (H) x 31 (D) mm (2-31/64" x 9-3/8" x 1-7/32")

Mass:

190 g (Approx. 6.7 oz) (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

■ List of preset codes / Liste de codes préréglés

DVD

3D Lab	40539
Acoustic Solutions	40713, 40730, 41242
Advent	41016
AEG	40770, 40790
AFK	41051
Afreedy	40698
Aim	40699, 40778, 40833, 41165
Airis	41250
Aiwa	40533, 40641
Akai	40690, 40705, 40770, 40790, 40884, 40899, 41089, 41115
Akira	40699
Akura	41051
Alba	40539, 40672, 40695, 40699, 40713, 40717, 40730, 40783, 41051
Alco	40790
Allegro	40869
Amitech	40770, 40784, 40850
Amphion Media Works	40872
Amstrad	40713
AMW	40872
Ansonic	40774, 40831
Apex	40672, 41061
Apex Digital	40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41056, 41061, 41100
Arianet	40770
Aspire Digital	41168, 41407
Audiosonic	40690, 41265
Audiovox	40717, 40790, 41041, 41071, 41072, 41121, 41122
Awa	40730, 40872
Axion	40730, 41071, 41072

B & K	40655, 40662
Basic Line	40713
Baze	41165
Bellagio	41004
Black Diamond	40698, 40713, 40833, 40884
Blaupunkt	40717
Blue Parade	40571
Blue Sky	40651, 40672, 40695, 40713, 40769, 40778, 40804
Boghe	41004
Boman	40783
Brainwave	40770, 41115
Brandt	40503, 40651
Broksonic	40695, 40868
Bush	40516, 40672, 40690, 40695, 40699, 40713, 40717, 40730, 40778, 40831, 40833, 40884, 41051, 41165
C-Tech	40798
Cambridge Soundworks	40690
Cat	40699, 41087
CAVS	41057
CCE	40730
Celestial	41020
Centrex	40672, 41004
Centrum	40713
CGV	41115
Changhong	40627, 41061
Cinea	40831
Cineral	40730
Cinetec	40713
cineULTRA	40699
CineVision	40833, 40869, 40876
Citizen	41277
Classic	40730, 41730
Clatronic	40672, 41165

Clayton	40713
Coby	40730, 40770, 40778, 40852, 41086, 41107, 41115, 41165, 41177, 41351
Compacks	40826, 41265
Conia	40516, 40672, 40798, 40852, 41004
Continental Edison	40768, 40831
Craig	40831
Crown	40690, 40769, 40770, 41115
Curtis Mathes	41087
Cybercom	40831
CyberHome	40816, 40874, 41023, 41024, 41117, 41129
Cyductin	41074
Cytron	40651, 40774
D-Vision	41115
Daenyx	40872
Daewoo	40705, 40770, 40784, 40833, 40869, 40872, 41169, 41172, 41234, 41242
Daewoo International	40872
Dansai	40770, 40783, 41115
Dantax	40539, 40713, 40790, 41089
Daytek	40872
Dayton	40872
DCE	40831
DEC	40774, 40778
Decca	40770, 41115
Denon	40490, 40634, *[41470], 41634
Denver	40699, 40778, 41107, 41165, 41353, 41359
Desav	40770
Desay	40800, 41407
Diamond	40651, 40768, 40790
Dick Smith Electronics	40833, 41730
Digihome	40713
digiRED	40717

Digitor	40651, 40690
Digitrex	40672, 41056, 41100
DIGIXmedia	40826
DiK	40774, 40831
Disney	40675, 41270
DiViDo	40705
DK Digital	40831
DMTech	40783
Dragon	40831
DSE	40833, 41730
Dual	40651, 40713, 40730, 40783, 40790, 40831, 41068, 41085
Durabrand	40713, 40831, 41003, 41127
DVD2000	40521
DVX	40768
ECC	40730
Electrohome	40770, 40784
Elfunk	40850
Elin	40770
Ellion	40850
Elta	40672, 40690, 40770, 40850, 41051, 41115
Emerson	40591, 40675, 40705, 40816, 40821, 41268
Encore	40698
Enterprise	40591
Enzer	40770, 40784
EuroLine	41115
Fenner	40651, 40769
Ferguson	40651
Finlux	40591, 40672, 40741, 40770, 40783, 41165
Fintec	40784, 41169
Firstline	40651, 40713, 40869
Fisher	40670
Funai	40675, 40695, 41334
Gateway	41073, 41077, 41158

GE	40522, 40717, 40815
General Electric	40717
Global Solutions	40768
Go Video	40715, 40741, 40744, 40783, 40833, 40869, 41044, 41075, 41099, 41144, 41158, 41304, 41730
Go Vision	41071, 41072
GoldStar	40591, 40741
Goodmans	40651, 40690, 40713, 40730, 40783, 40790, 40833, 41004, 41730
GPX	40699, 40769
Gradiente	40651
Gran Prix	40831
Grandin	40672, 40713
Greenhill	40717
Grundig	40539, 40651, 40670, 40695, 40705, 40713, 40790, 41004, 41730
Grunkel	40770
GVG	41169
H & B	40850
H&B	40713, 40850
Hanseatic	40741, 40783
Harman/Kardon	40582, 40702
HDT	40705
Hen	40713
Hher	40651, 40713, 40826, 40831
Hitachi	40573, 40664, 40695, 40713, 41247
Hiteker	40672, 40872
Home Electronics	40730
Home Tech	41107
Humax	40646
Hyundai	40768, 40783, 40850
I-Lo	41348
iLo	41348
Initial	40717, 40839
Integra	40571, 40627, 41634
IRT	40783

ISP	40695
Jaton	41078
JBL	40702
Jeken	40699
Jensen	41016
Jepssen	41250
JMB	40695
JNC	40672
JSI	41423
JVC	40503, 40539, 40558, 40623, 40867, 41164
jWin	41049, 41051
Karcher	40783
Kawasaki	40790
Kendo	40699, 40713, 40831
Kennex	40713, 40770
Kenwood	40490, 40534
Kiirro	40770
KLH	40717, 40790, 41020, 41149
KLH Digital	40717
Konka	40711, 40719, 40720, 40721
Koss	40651, 40896, 41423
Landel	40826
Lasonic	40798, 41173
Lawson	40768
Lenco	40651, 40699, 40713, 40770, 40774, 40778, 41165
Lenoxx	40690, 41127
Lexia	40699, 40768
LG	40591, 40741, 40790, 40801, 40869, 40036
Lifetec	40651, 40831
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Loewe	40511, 40539, 40741
Logix	40705, 40783
Lumatron	40705, 40741, 40833, 41115

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Luxman	40573
Luxor	40713, 41004, 41730
Magnasonic	40651, 40769
Magnavox	40503, 40539, 40646, 40675, 40713, 40821
Magnex	41165
Malata	40782, 41159
Manhattan	40705, 40713
Marantz	40539
Mark	40713
Marquant	40770
Matsui	40651, 40672, 40695, 40713, 40884, 41004, 41730
Maxim	40713, 40872
MBO	40690, 40730, 41730
MDS	40778
Mecotek	40770
Medion	40630, 40651, 40770, 40774, 40783, 40820, 40831
MEI	40790
Memorex	40695, 40831, 41270
Metronic	40690
Metz	40525, 40571, 40713
Micromedia	40503, 40539
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Microsoft	40522
Microstar	40831
Minato	40752
Minax	40713
Minerva	40705
Minoka	40770
Minowa	41165
Mintek	40717, 40839
Mirror	40752
Mitsubishi	40521, 40713, 41403, 41521
Mizuda	40770

Momitsu	41082
MTlogic	41265
Mustek	40730, 41730
Mx Onda	40651
NAD	40591, 40692, 40741
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Narita	41115
NEC	40591, 40692, 40785, 40869, 41404
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Norcent	40872, 41003, 41107, 41265
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Noriko	40752
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Omni	40690, 40698, 40778, 40833
Onix	40672, 40852
Onkyo	40503, 40627, 40792
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Palsonic	40672, 40852

Panasonic	40490, 40503, 40703, 41362, 41462, 41490, 41762
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Philco	40690, 40790
Philips	40503, 40539, 40646, 40675, 40854, 41158, 41260, 41267, 41354
Phonotrend	40672, 40699, 41165
Pioneer	40490, 40525, 40571, 40631
Plu2	40850
Pointer	40784
Polaroid	41020, 41061, 41086
Polk Audio	40539
Portland	40770
Powerpoint	40872
Powtek	40852
Prima	41016
Prinz	40831
Prism	40705
Proline	40651, 40672, 40833, 41004
Proscan	40522
Proson	40713
Prosonic	40752
ProVision	40699, 40778
Qwestar	40651
Radionette	40741, 40869
RCA	40522, 40571, 40717, 40769, 40790, 40822, 41022, 41132
REC	40490
Recco	40698
Red Star	40770, 41003
Reoc	40752, 40768
Resonance	40651
Revoy	40699
Rio	40869
RJTech	41360
Roadstar	40690, 40699, 40713, 40730, 40833, 41051

Ronin	40872
Rotel	40558, 40623
Rowa	40516, 40717, 40823, 40872, 41004
Saba	40651, 40769
Sabaki	40798
Saivod	40831
Sakyno	40768
Salora	40741
Sampo	40698, 40752
Samsung	40490, 40573, 40744, 40820, 40899, 41044, 41075
Sansui	40695, 40768, 40784
Sanyo	40670, 40695, 40873
Scan	40705, 40850
ScanMagic	40730
Schaub Lorenz	40770, 41115
Schneider	40539, 40651, 40705, 40713, 40774, 40783, 40790, 40804, 40831
Schwaiger	40752
Scientific Labs	40768, 40798
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SEG	40713, 40768, 40798, 40872, 40884
Semp	40503
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SM Electronic	40690, 40730, 40768
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Soundwave	40783
Sova	41122
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Sunstech	40831
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※ These preset codes can be recorded in the SAT/CBL mode.

TV/DVD Combination

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※ These preset codes can be recorded in the DVD mode.

Bush	10698, 11037
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Sylvania	10171

※ These preset codes can be recorded in the TV mode.

TV/VCR Combination

America Action	10180
Audiovox	10180
Emerson	10236
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※ These preset codes can be recorded in the TV mode.

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RCA	20240, 20807, 21035, 21060
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Teac	20000
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※ These preset codes can be recorded in the VCR mode.

TV/VCR/DVD Combination

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Funai	41334
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Panasonic	41362, 41462
RCA	41132
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Sylvania	40821
Toshiba	41045

※ These preset codes can be recorded in the DVD mode.

Sharp	20807
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※ This preset code can be recorded in the VCR mode.

CABLE/PVR Combination

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Digeo	01187
Freebox	01482
General Instrument	00476, 00810
Jerrold	00476, 00810
Motorola	00476, 00810, 01106, 01187, 01376
Nokia	01569
Pace	00237, 01877
Pioneer	00877, 01877
RCA	01256
Scientific Atlanta	00877, 01877
Sony	01006
Supercable	00276
Thomson	01256
Zenith	00899

※ These preset codes can be recorded in the SAT/CBL mode.

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@sat	01300
Atsat	01300
British Sky Broadcasting	01175
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Comag	01412
Digiturk	01076
DirecTV	00099, 00392, 00639, 01076, 01142, 01377, 01392, 01442, 01443, 01444, 01640
Dish Network System	00775, 01505
Dishpro	00775, 01505
Dream Multimedia	01237
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Topfield	01206, 01545
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※ These preset codes can be recorded in the SAT/CBL mode.

*[] : Preset codes set upon shipment from the factory.

*[] : Les codes pré-réglés diffèrent en fonction des livraisons de l'usine.

DVD preset codes			
DENON Model No.	41470 (default)		40490
	DVD-555	DVD-2910	DVD-800
	DVD-755	DVD-3800	DVD-1600
	DVD-900	DVD-3910	DVD-2000
	DVD-910	DVD-5900	DVD-2500
	DVD-955	DVD-5910	DVD-3000
	DVD-1000	DVD-9000	DVD-3300
	DVD-1200	DVM-715	
	DVD-1500	DVM-1800	
	DVD-1710	DVM-1805	
	DVD-1910	DVM-1815	
	DVD-2200	DVM-2815	
	DVD-2800	DVM-4800	
	DVD-2800II		
	DVD-2900		





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