

AV SURROUND RECEIVER

AVR-1908

- Owner's Manual Bedienungsanleitung Manuel de l'Utilisateur Manuale delle istruzioni Manual del usuario Gebruiksaanwijzing
- Bruksanvisning

ENGLISH DEUTSCH FRANCAIS ITALIANO ESPAÑOL NEDERLANDS SVENSKA

□ SAFETY PRECAUTIONS



CAUTION:

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



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



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

WARNING:

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

DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 2006/95/EC and 2004/108/EC Directive.

ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3. Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC.

• DECLARATION DE CONFORMITE

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. D'après les dispositions de la Directive 2006/95/EC et 2004/108/EC.

• DICHIARAZIONE DI CONFORMITÀ

Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3. In conformità con le condizioni delle direttive 2006/95/EC e 2004/108/EC. QUESTO PRODOTTO E' CONFORME

AL D.M. 28/08/95 N. 548

• DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:

EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3. Siguiendo las provisiones de las Directivas 2006/95/EC y 2004/108/EC.

• EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:

EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de bepalingen van de Richtlijnen 2006/95/EC en 2004/108/EC.

• ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:

EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. Enligt stadgarna i direktiv 2006/95/EC och 2004/108/EC.

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

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose.

Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

ATTENZIONE:

Per scollegare completamente questo prodotto dalla rete di alimentazione elettrica, scollegare la spina dalla relativa presa a muro. La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

WAARSCHUWING:

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken.

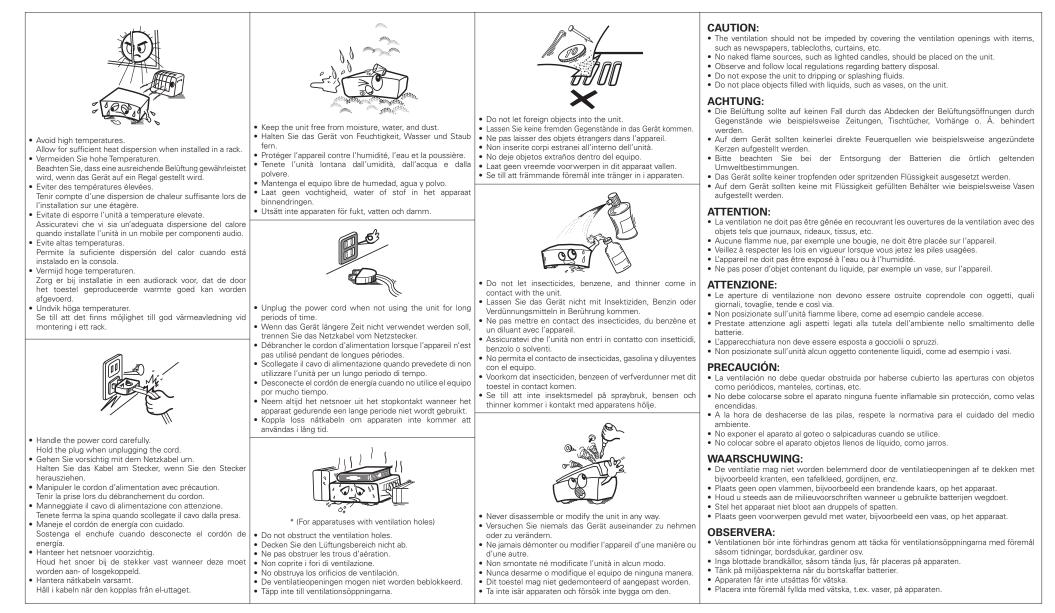
De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIHETSMÅTT:

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet.

Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN



A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.



This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.

HINWEIS ZUM RECYCLING:

Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften.

Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.

Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften.

Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles.

Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

NOTA RELATIVA AL RICICLAGGIO:

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio.

Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore.

Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

EEN AANTEKENING MET BETREKKING TOT DE RECYCLING:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften.

Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op.

Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd.

Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

OBSERVERA ANGÅENDE ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser. När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser.

Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall. Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.

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List of preset codes End of this manual

Getting Started

Thank you for purchasing this DENON product. To ensure proper operation, please read this owner's manual carefully before using the product.

After reading them, be sure to keep them for future reference.

Accessories

Check that the following parts are supplied with the product.

1 Owner's manual 2 Getting Started 3 Service station list 4 Remote control (R 5 R6P/AA batteries . 6 FM indoor antenna 7 AM loop antenna . 8 Setup microphone	C-1078)	 1 1 1 2 1 1
	6	8

Setup Playback Remote Control

Amp Assign Information Troubleshooting

Cautions on Handling

Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

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

About condensation

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

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

Cautions on using mobile phones

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

Moving the unit

Turn off the power and unplug the power cord from the power outlet.

Next, disconnect the connection cables to other system units before moving the unit.

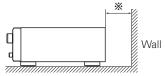
• Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

Cautions on Installation

Note:

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





About the Remote Control Unit

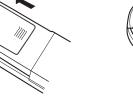
In addition to the AVR-1908, the included remote control unit (RC-1078) can also be used to operate the equipment listed below.

(1) DENON system components

- Non-DENON system components
 - By setting the preset memory (2 page 48 ~ 50)

Inserting the Batteries

(1) Lift the clasp and remove the (2) Load the two batteries properly rear lid. as indicated by the marks in the battery compartment.

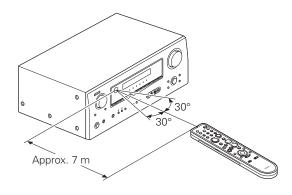


(3) Put the rear cover back on.

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

Operating Range of the Remote Control Unit

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



NOTE

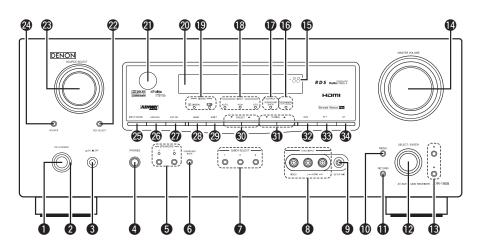
R6P/AA

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

Part Names and Functions

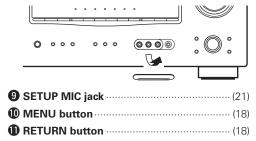
For buttons not explained here, see the page indicated in parentheses ().

Front Panel



Power operation button (ON/STANDBY)
2 Power indicator (40)
3 Power switch (ONOFF)
4 Headphones jack (PHONES) (40)
SPEAKER buttons (40)
6 SURROUND BACK button
OUICK SELECT buttons
8 V. AUX INPUT connectors

Remove the cap covering the terminals when you want to use them.



• The SELECT/ENTER knob on the main unit operates in the same way as the **CURSOR** \triangleleft and \triangleright buttons on the remote control unit. SELECT / ENTER

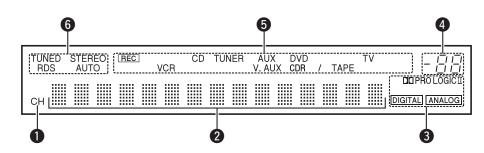


- The control functions in the same way as the **CURSOR** *⊲* button when turned counterclockwise. as the **CURSOR** ▷ button when turned clockwise.
- The control functions in the same way as the **ENTER** button when pressed the knob.

ⓑ Cursor buttons (△▽)(18)
MASTER VOLUME control knob (40)
Master volume indicator
AUDYSSEY indicator (37)
SURROUND BACK indicator (33, 36)
(B) Input mode indicators (INPUT)(31)

SIGNAL indicators	② EXT. IN button (31)
🕲 Display	BAND button (41)
Remote control sensor (3)	SHIFT button (41)
2 REC SELECT button (46)	PRESET buttons (41)
BOURCE SELECT knob (40)	TUNING buttons (41)
29 SOURCE button	19 RDS button (43)
INPUT MODE button (31)	③ PTY button (43)
O ANALOG button (31)	3 RT button (44)

Display



- **1** Signal channel indicator Lights when the preset channel is displayed at
 - 2
- **2** Information display
- **3** Input signal indicators
- **4** Master volume indicator

This displays the volume level. The Setup item number is displayed in System Setup.

G REC SELECT indicators

Lights while selecting the REC SELECT mode. (Off when the "SOURCE" is selected.)

6 Tuner reception mode indicators

These light according to the reception conditions when the input source is set to "TUNER".

- AUTO
- This lights when in the auto tuning mode.

• RDS

This lights when receiving RDS broadcasts. • STEREO

In the FM mode, this lights when receiving analog stereo broadcasts.

• TUNED

This lights when the broadcast is properly tuned in.

Getting Started

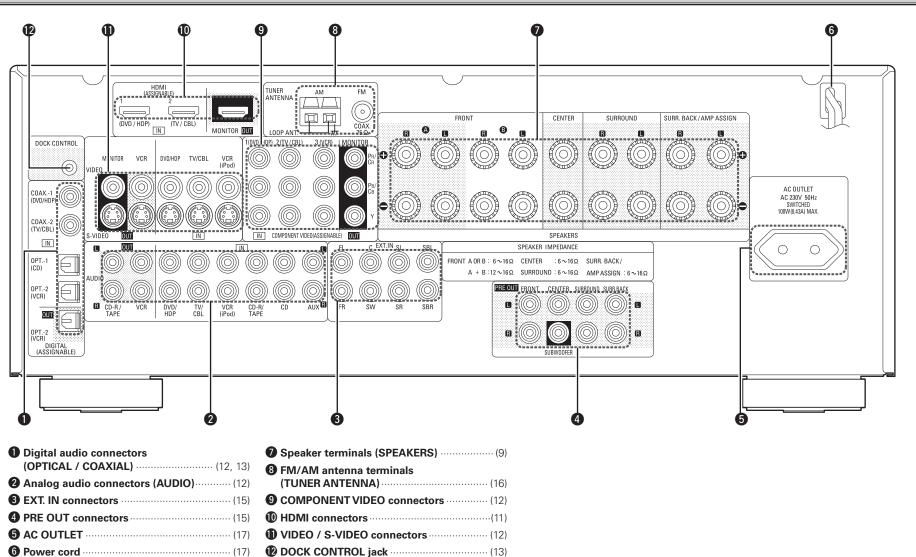
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Setup Playback

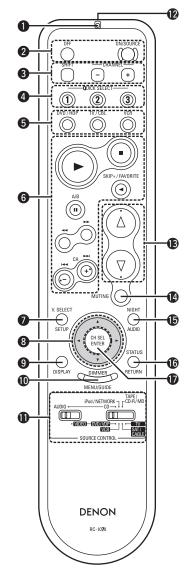
Remote Control Amp Assign Information Troubleshooting

Rear Panel

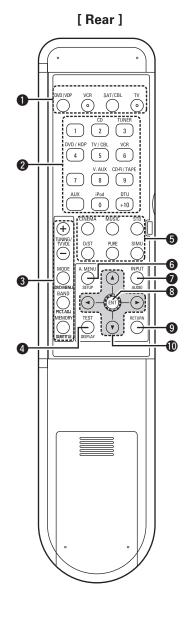


Remote Control Unit

[Front]



1 Indicator
2 Power buttons
3 Tuner system buttons(41 ~ 43, 45)
QUICK SELECT buttons (47)
5 Source select buttons(40)
6 System buttons
Video select button (V. SELECT)
8 Cursor buttons (△▽< ▷)(18)
9 DISPLAY button
DIMMER button
(18, 41) Mode selector switches
Remote control signal transmitter (3)
(40) Master volume control buttons
WUTING button
(38) IIGHT button
(38) STATUS button
Channel select (CH SEL) /
ENTER button (18, 46)



Power buttons (48)
2 Source select buttons
3 Tuner system buttons(41)
4 Test tone button (TEST)
5 Surround mode buttons
6 Amp menu button (A. MENU)
Input mode button (INPUT) (31)
8 Enter button (ENT) (18)
RETURN button (18)
(18) ($\Delta \nabla \triangleleft \triangleright$) (18)

NOTE

If buttons on the front or rear are pressed strongly, the button on the opposite side will be activated too.

Connections

Connections for all compatible audio and video signal formats are described in these operating instructions. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-1908. For details, refer to the instructions for the respective connection items below.

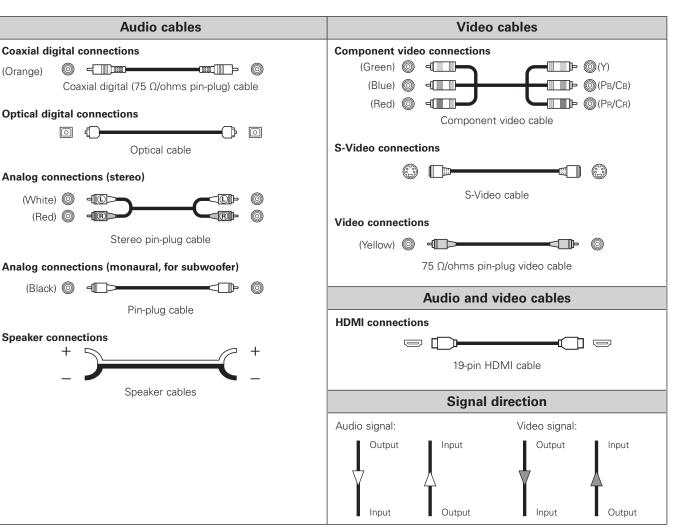
NOTE

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

Preparations

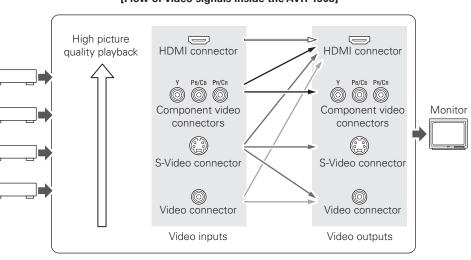
Cables Used for Connections

Select the cables according to the equipment being connected.



Video Conversion Function

- This function automatically converts various formats of video signals input to the AVR-1908 into the format used to output the video signals from the AVR-1908 to a monitor.
- The AVR-1908's video input/output circuitry is compatible with the following four types of video signals: Digital video signals: HDMI
- Analog video signals: Component video, S-Video and Video
- The AVR-1908'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 connector with the original resolution.
- The on-screen display signals are output from the HDMI monitor output connector with a resolution of 480i/576i. Because of this, if the monitor equipped with HDMI connector is compatible with the 480i/576i resolution, all the signals the AVR-1908 handles can be output to the monitor with a single HDMI cable.



[Flow of video signals inside the AVR-1908]

On-Screen Display for Component Video Outputs and HDMI Output

- When viewing HDMI signals via the AVR-1908, the on-screen display appears when the **MENU** button or the remote control unit's **DISPLAY** button is operated, if your monitor is compatible with a resolution of 480i.
- When only HDMI signals are input to the AVR-1908, the characters of the on-screen display are not displayed over the picture.
- The on-screen display signals are not outputted from the COMPONENT MONITOR OUT.

monitor can handle.

input connector.

• HDMI signals cannot be converted into analog signals.

menu "Information" – "HDMI Information" (Pp page 39).

• When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

• When not using this function, connect a monitor output with the same type of connector as the video

• The resolution of the HDMI input-compatible monitor connected to the AVR-1908 can be checked at

 If the monitor equipped with HDMI connector is not compatible with the 480i/576i resolution, connect the player and the AVR-1908 using a component cable and set the player's resolution to one which the

Getting Started

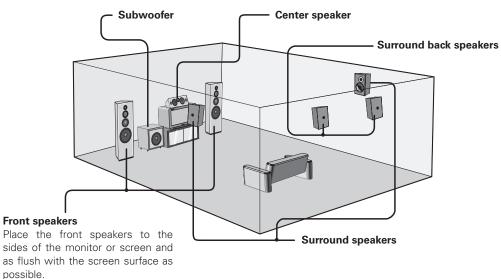
Connections

Remote Control Amp Assign Information Troubleshooting

Speaker Connections

Speaker Installation

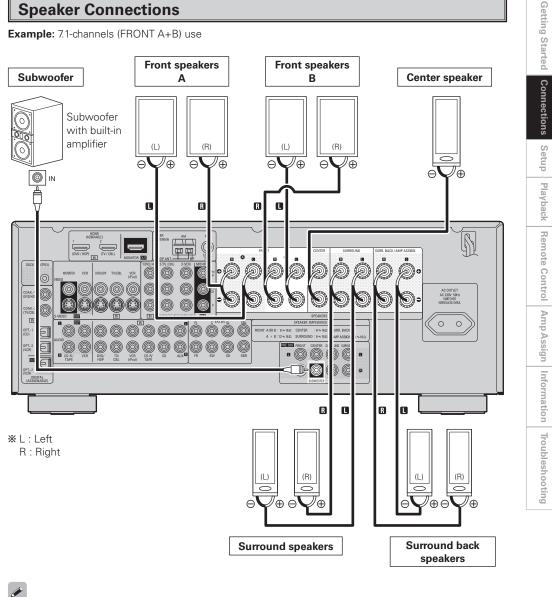
The illustration below shows a basic example of installation of the amplifier combined with 8 speakers and a monitor.



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The table below shows a typical speaker configuration for the AVR-1908.

	FRC	DNT	CENTER	SURROUND		SURROUND BACK			SUBWOOFER
	L	R	CLINILIN	L	R	L	R	1 only	SOBWOOI LI
7.1-channels (FRONT A+B)	0	0	0	0	0	0	0	-	0
7.1-channels	0	0	0	0	0	0	0	-	0
6.1-channels	0	0	0	0	0	-	-	0	0
5.1-channels	0	0	0	0	0	-	-	-	0
3.1-channels	0	0	0	-	-	-	-	-	0
2.1-channels	0	0	-	-	-	-	-	-	0
2-channels	0	0	-	-	-	_	-	-	_



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

Getting Started

Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and -(black) polarities on the speakers being connected to the AVR-1908, and be sure to interconnect the channels and polarities correctly.

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

Turn the speaker terminal **C** counterclockwise to loosen it.

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

Turn the speaker terminal clockwise to RE **H** tighten it.

NOTE

- Use speakers with an impedance of 6 to 16 Ω /ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 12 to 16 Ω /ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other (B "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Protection circuit

If speakers with an impedance lower than specified (for example 4 Ω /ohms speakers) are used for an extended period of time with the volume turned up high, the temperature may rise, activating the protection circuit.

When the protection circuit is activated, the speaker output is shut off and the power indicator flashes red. If this happens, unplug the power cord, then check the speaker cable and input cable connections. If the set is extremely hot, wait for it to cool off and improve ventilation around it. Once this is done, plug the power cord back in and turn the set's power back on.

If the protection circuit is activated again even though there are no problems in the ventilation around the set nor in the connections, the set may be damaged. Turn the power off, then contact a DENON service center.



Connecting Equipment with HDMI connectors

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

DVD player	Monitor
HDMI OUT	HDMI IN
Ţ	Ţ
1	Ă
DOCK CONTROL MONITOR VCR VIDEO	IDENTIFY TVICEL VCR
	0000000 AAA AAA
	DVUU TVU VCR CD-RV CQ AUX HOP CBL (Prod) TAPE
DIGITAL (ASSIGNABLE)	

- * The AVR-1908 is equipped for HDMI version 1.3a. This version is compatible with other versions, allowing connection to all components equipped with an HDMI connector.
- * The AVR-1908 is compatible with 30- and 36-bit Deep Color.

Compatible audio format	Details	Discs (examples)
2-channel linear PCM	2ch 32-192 kHz 16/20/24 bits	CD, DVD-Video, DVD-Audio
Multi-channel linear PCM	8ch 32-192 kHz 16/20/24 bits	DVD-Audio
Dolby Digital, DTS	Bitstream	DVD-Video

Copyright protection system (HDCP)

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

HDCP is a copy protection technology consisting of data encoding and mutual identification of the devices. The AVR-1908 is HDCP-compatible. For details on the

DVD player or monitor you are using, refer to its operating instructions.

NOTE

Use a CPPM-compatible DVD player to play DVD-Audio discs that are copyright-protected by CPPM.
The AVR-1908 cannot be controlled from another device via the HDMI cable.

- The audio signals output from the HDMI connector (sampling frequency, bit rate, etc.) may be restricted by the connected device.
- Video signals are not output properly when using devices that are not HDCP-compatible.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.
- If the menu "Manual Setup" "HDMI Setup" "HDMI Audio Setup" setting (127) page 26) is set to "AMP", the sound may be interrupted when the monitor's power is turned off.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or DVD player does not support deep color, deep color signal transfer is not possible.
- If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible.

- When the AVR-1908 and DVD player are connected using an HDMI cable, also connect the AVR-1908 and monitor using an HDMI cable.
- If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. When using a DVI cable, no audio signals are transmitted.
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

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

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

- By default, the HDMI audio signals are output from the speakers connected to the AVR-1908.
- To output the sound from the TV, make the settings at menu "Manual Setup" "HDMI Setup" "HDMI Audio Setup" "TV" (12) page 26).

Troubleshooting

Connecting the Monitor

- Connect the cables to be used (127 page 8 "Video Conversion Function").
- With HDMI connections, the video and audio signals can be transferred with a single cable.
- To output the audio signals to the monitor with HDMI connections, set menu "Manual Setup" "HDMI Setup" "HDMI Audio Setup" to "TV" (127) page 26).

Monitor - VIDEO S VIDEO VIDEO COMPONENT VIDEO HDMI IN IN IN IN PB PR Щ O 甲甲 3 3 IN. $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ E E 0 • (0) • (

NOTE

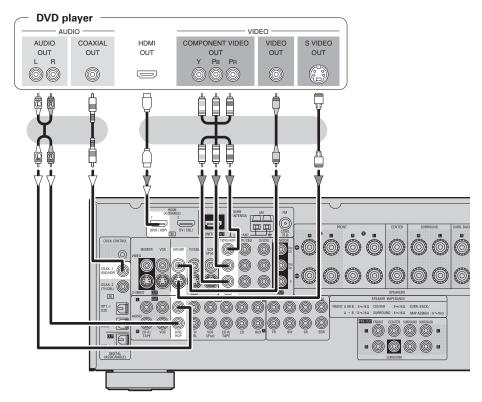
- The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.
- The audio signals output from the HDMI connectors are only the HDMI input signals.

Connecting the Playback Components

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

DVD Player

- Connect the cables to be used.
- With HDMI connections, the video and audio signals can be transferred with a single cable.



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• Connect an HDP (High-Definition Player) in the same way.

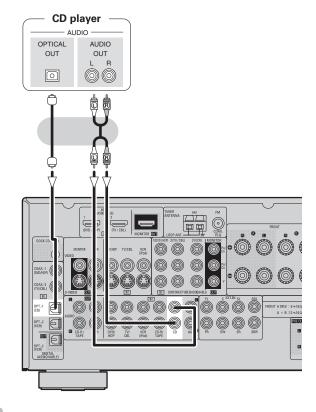
- When using an optical cable for the digital audio connection, make the settings at menu "Input Setup"
- "Assign" "Digital In" (😰 page 32).

Getting Started

Getting Started

CD Player

Connect the cables to be used.



iPod®

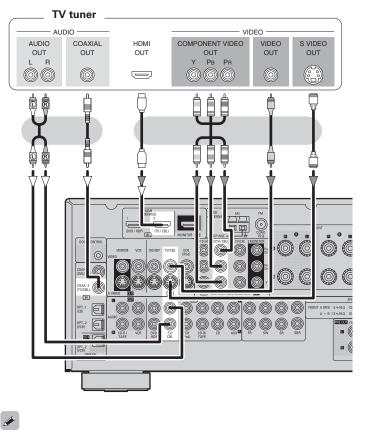
iPod

Use a DENON Control Dock for iPod (ASD-1R, sold separately) to connect the iPod to the AVR-1908. For instructions on the Control Dock for iPod settings, refer to the Control Dock for iPod's operating instructions.

ASD-1R

TV/CABLE Tuner

Connect the cables to be used.



When using an optical cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (27) page 32).

When using an optical cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (127 page 32).

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• With the default settings, the iPod can be used connected to the VCR (iPod) connector.

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FRONT A OR B : 6~16 A + B :12~16

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 To assign the iPod to a connector other than VCR (iPod), make the settings at menu "Input Setup" – "(input source to which iPod dock assigned)" – "Assign" – "iPod dock" (127) page 32). Troubleshooting

Getting Started

Connections

Setup

Playback

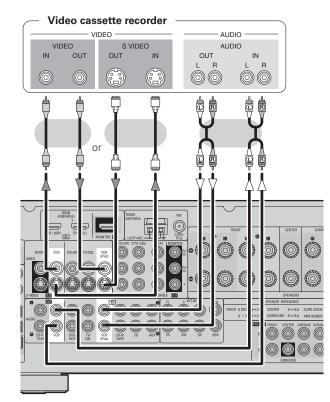
Remote Control

Connecting the Recording Components

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

Video Cassette Recorder

Connect the cables to be used.



• When recording via the AVR-1908, the playback device's cable must be of the same type as the cable used to connect the AVR-1908's VCR OUT connector.

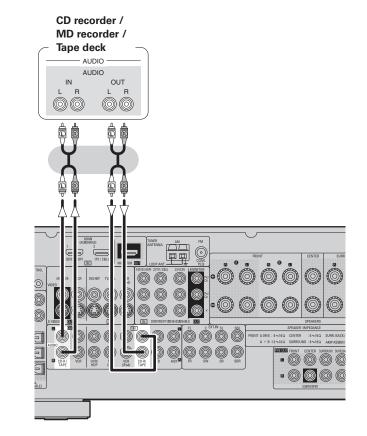
Example: TV IN \rightarrow S-Video cable : VCR OUT \rightarrow S-Video cable

TV IN \rightarrow Video cable : VCR OUT \rightarrow Video cable

- When using a component video cable for the video connection, make the settings at menu "Input Setup"
- "Assign" "Component In" (😰 page 32).

CD Recorder / MD Recorder / Tape Deck

Make analog connections if you wish to record analog audio signals, or digital connections if you wish to record digital audio signals, depending on the types of connectors on the components being used.



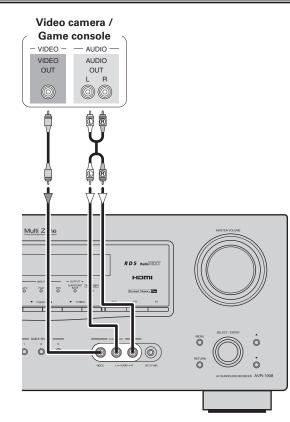
Getting Started

Connections

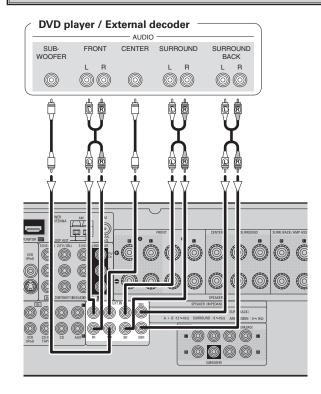
Connections to Other Devices

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

Video Camera / Game Console



Component with Multi-channel Output connectors

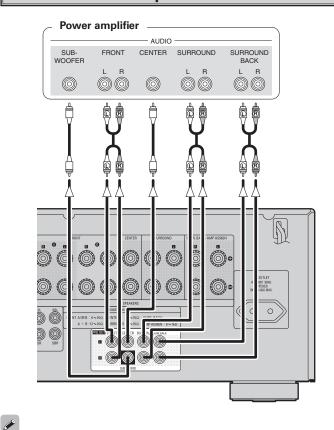


• To play the analog input signals input to the EXT. IN connectors, press the EXT. IN button on the main unit or INPUT button on the remote control unit and select "EXT. IN" or make the settings at menu "Input Setup" - "Input Mode" - "EXT. IN" (@ page 31).

(SBL).

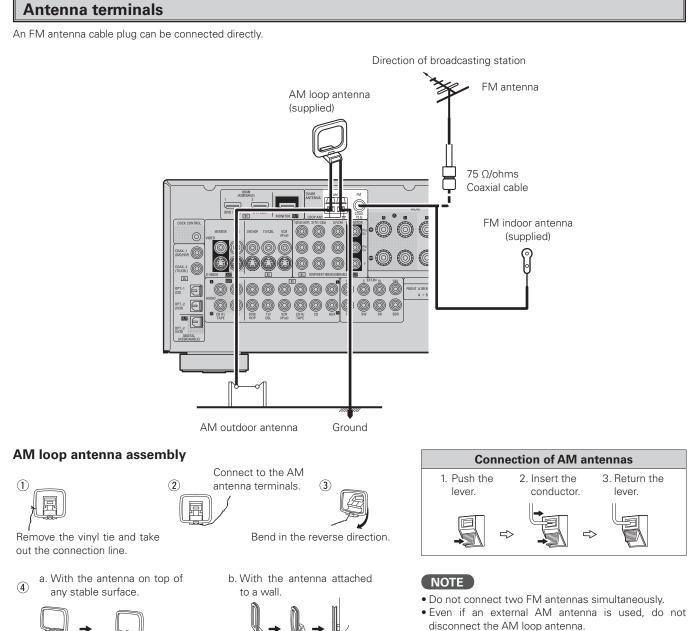
- The video signal can be connected in the same way as a DVD player (P page 12).
- To play copyright-protected discs, connect the AVR-1908's EXT. IN connector with the DVD player's analog multi-channel output connector.

External Power Amplifier



Setup Playback Remote Control Amp Assign Information Troubleshooting





Installation hole Mount on wall, etc.

• Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

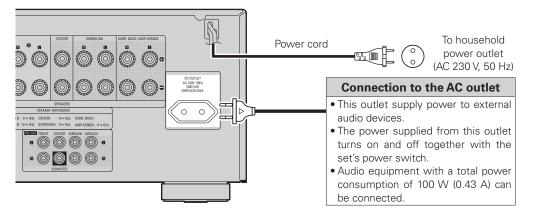
lever.

Mount

16

Connecting the Power Cord

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



NOTE

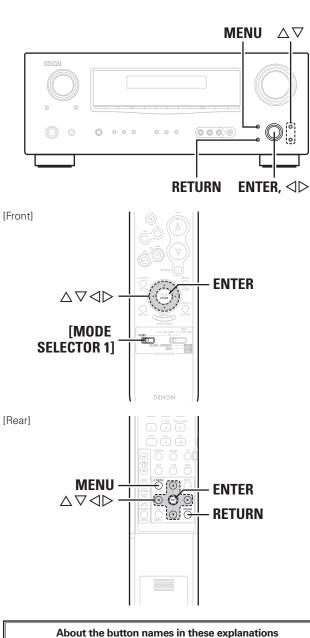
- Insert the AC plugs securely. Incomplete connections could cause noise.
- Only use the AC outlet to plug in audio devices. Do not use them as power supplies for hairdryers or anything other than audio equipment.

Once Connections are Completed

Turning the Power On (*** page 40)

Getting Started





: Buttons on the main unit

: Buttons on the remote control unit

Buttons on the main unit and remote control unit

Menu Operations

With the AVR-1908, settings and operations for most functions can be performed by operating while looking at the menus displayed on the monitor screen.

Operations The same operation is possible on the main unit or remote contro Press MENU. The menu is displayed. * To operate from the remote control unit, be sure to set the [MODE SELECTOR 1] to "AUDIO". \frown Press $\triangle \nabla$ to select the item you want to set, then **Z** press ENTER.

 \frown Press $\triangle \nabla$ again to select the item you want to set, **5** then press ENTER.

To change the setting:

4 Press $\triangle \nabla$ to select the item you want to change, then press $\triangleleft \triangleright$ to change the setting.

* To return to the previous item, press RETURN.

* Select "Default Yes", then press ⊲ to reset to the default setting.

5 Press ENTER to enter the setting.

6 Press **MENU** to finish.

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

Example of Display of Default Values

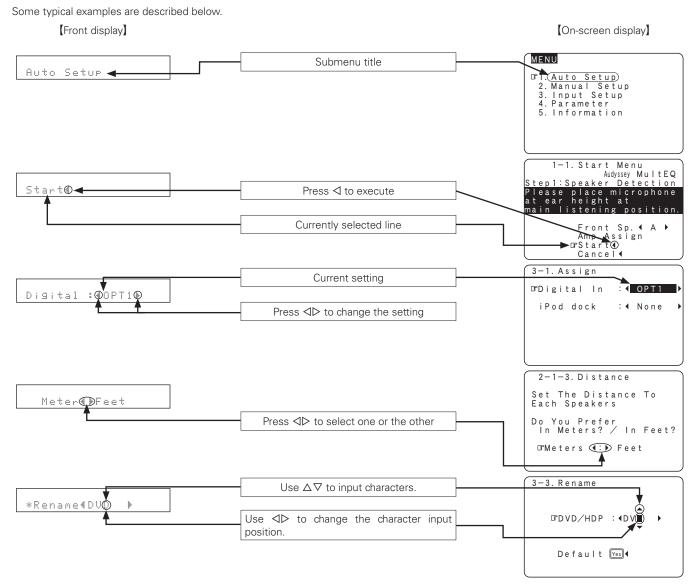
In lists of selectable items or adjustable ranges, the item surrounded by a border is the default value.



< > []

Button name only:

Examples of On-screen Display and Front Display



Menu Map

Getting Started MENU Auto Setup (27 page 21 ~ 23) 1. Start Menu Option Parameter Check 2. Connections □ 1. Auto Setup•••• Step 1: Speaker Detection Room EQ Speaker Configuration Check ᠍3. 2. Manual Setup.... Step 2: Measurement Direct Mode Setup Distance Check 3. Input Setup.... 4. Step 3: Calculation Channel Level Check 4. Parameter • • • • • • • Step 4: Check Crossover Frequency Check 5. 5. Information Step 5: Store EQ Check Setup Restore . Manual Setup (127 page 24 ~ 29) Playback □ Speaker Setup (☞ page 24, 25) □ Audio Setup (@ page 26, 27) □ Option Setup (ﷺ page 28, 29) Speaker Configuration • EXT. IN Subwoofer Level Amp Assign Remote Control Subwoofer Setup 2ch Direct/Stereo Volume Control . • Distance Dolby Digital Setup · Volume Limit Channel Level • Auto Surround Mode · Power On Level Crossover Frequency Manual EQ Mute Level L HDMI Setup (C page 26) Source Delete Information **Parameter** HDMI Audio Setup On-Screen Display (CP page 38, 39) (12) page 35 ~ 38) · HDMI Audio Out · Screensaver Amp Assign HDMI Video Setup · Text Surround Parameter Status · Color Space · Master Volume Audio Input Signal MODE · RGB Range Tuner Information HDMI Information CINEMA EQ · iPod Information □ Auto Surround Mode • D.COMP · Display Mode Quick Select • LFE Information Quick Select Name Preset Station CENTER IMAGE Remote ID Setup PANORAMA • Display DIMENSION Setup Lock CENTER WIDTH DELAY TIME Troubleshooting • EFFECT LEVEL Input Setup (2 page 30 ~ 33) ROOM SIZE AFDM TUNER (FM/AM) CD, AUX, CDR, DVD/HDP, TV/CBL, SB CH OUT Auto Preset VCR, V.AUX SW ATT Preset Skip Assign Ó Subwoofer Preset Name Input Mode • Default When "Screensaver" is set to Input Mode Rename Tone Control Rename • Other "ON", the screensaver is activated • Tone Defeat • Other · Video Select if no operation is performed for Bass · Video Select · Video Convert (Excluding CD and AUX) about 3 minutes. • Treble Source Level Source Level When the $\Delta \nabla \triangleleft \triangleright$, **ENTER** or **MENU** C Room EQ • iPod button is pressed, the screensaver **RESTORER** □ Night Mode is canceled and the corresponding Audio Delay operation is performed.

20

Getting Started Connections

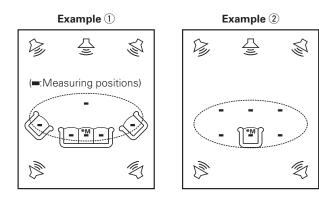
Setup

Auto Setup

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

Measurements are performed by placing the calibrated microphone (DM-A405) successively at multiple positions throughout the listening area as shown in **Example** ①. For best results, it is strongly recommended to measure 6 positions so that the measurements have the proper spatial weighting.

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



About the main listening position (*M)

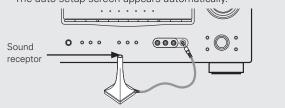
The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ uses the measurements from this position to calculate

speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

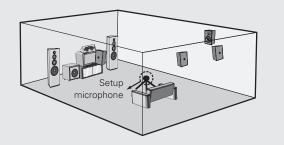
To make manual adjustments to the settings, see pages 24, 25.

Preparations

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



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



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

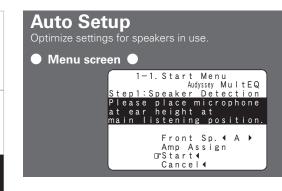
When using a subwoofer, make the following settings before starting the auto setup procedure:

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



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

Playback Remote Control Amp Assign Information Troubleshooting



1 Start Menu

The settings are performed automatically.

Start

Start Auto Setup.

The Audyssey MultEQ Auto Setup process automatically calculates the size, level, distance, bass management crossover frequency, and optimal settings for each speaker and subwoofer. Audyssey MultEQ corrects acoustical distortions within the listening area.

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

speaker.

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If an error message appears during the measurements, check "Error Messages", take the advised action, then start the measurements again (12 page 23).

Front Speaker

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

[Selectable items]



Output test tone from front speakers A.





: Output test tone from front speakers B.



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

Amp Assign

Advanced setting : changes power amplifier assignment. For details, refer to "Amp Assign" (P page 28).

Step 1 : Speaker Detection

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

Once the measurements are completed, the results are displayed.

- Loud test sounds may be played during Audyssey MultEQ Automatic Speaker Setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Quiet the listening environment before beginning measurements and refrain from talking. Turn off air conditioning units or other devices that emit noise if at all possible as measurements may be affected by these sounds.
- Operating the **MASTER VOLUME** knob on the main unit or the **MASTER** VOLUME button on the remote control during measurements will cancel the measurements.
- Do not change the speaker connections or subwoofer volume after "Step 1"

Step 2 : Measurement

After completing a measurement position, move the microphone to the next position.

Measure 6 positions (the main listening position and 5 other surrounding positions). Although it is allowable to measure less than 6 positions, it is recommended to measure 6 for best results.

Step 3 : Calculation

When "Calculate" is selected at "Step2" the measurements taken are analyzed automatically to determine how the speaker system interacts with the room.

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The time required for this analysis depends on the number of speakers connected. The higher the number of speakers, the longer the time required for analysis.

Step 4 : Check

Once the auto setup procedure is complete, a measuring result checking screen appears.

Select any item whose results you want to check to review the results.

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Values that are different from the actual distance may be set for speakers with built-in filters (subwoofers, etc.). This is because filters add electrical delay to the signal that should be compensated.

Step 5 : Store

The auto setup measurement results are stored in the AVR-1908.

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

Remote Control

Amp Assign

Information

Troubleshooting

Getting Started Connections Setup Playback Remote Control Amp Assign Information Troubleshooting

Error Messages

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

2 Option

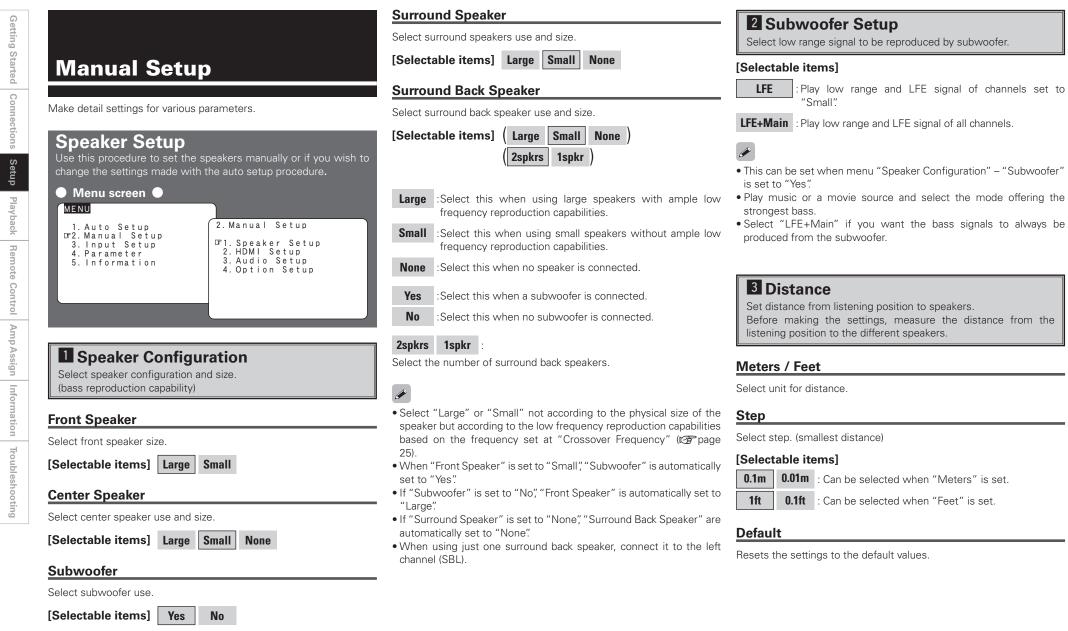
Make various other settings.

Room EQ

Error messages (examples)	Cause	Measures	Select room EQ setting method.
Auto Settup Audyssey MultEQ	 Included setup microphone is not connected. Not all speakers could be detected. 	 Connect the included setup microphone to the SETUP MIC jack on the main unit. Check the speaker connections. 	[Selectable items] All : Apply settings to all surround modes. Assign : Make settings for each surround mode separately. Direct Mode Setup
Cancel	measurements to be made.	 Either turn off any device generating noise or move it away. Try again when the surroundings are quieter. Check the speaker installation and the direction in which the speakers are facing. Adjust the subwoofer's volume. 	Select room EQ use for DIRECT or PURE DIRECT mode. [Selectable items] ON : Use room EQ. OFF : Do not use room EQ.
Retry 4 Cancel 4 Auto Setup Audyssey MultEQ Caution! Caution! Caution! Caution! Caution! Caution! Caution! Caution! Caution! Caution! Caution!	 Displayed speaker could not be detected. The front R speaker were not properly detected. Only one channel of the surround speakers was detected. Sound was output from the R channel when only one surround back speaker was connected. The surround back, but the surround speaker was not detected. 		3 Parameter Check Check auto setup measurement results. This is displayed after the auto setup procedure is completed. [Selectable items] Speaker Config. Check Distance Check Channel Level Check Crossover Freq. Check EQ Check Freq. Check
Auto Setup Audyssey MultEQ Caution! Cation! Cation! Cation! Cation! Cation! Cation! Cation! Cation! Cation! Cation! Cation! Cation! Cation!	 Displayed speaker connected with the polarities reversed. 	 Check the polarities of the displayed speaker. For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure that the wiring is correct, select "Skip". 	The auto setup results can be set again when "Restore" is selected.

✓ Select "Retry" to measure again.

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



Distance measurement

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

[Variable range]

0.00m ~ 18.00m : Display when "Meters" is set.

0.0ft ~ 60.0ft : Display when "Feet" is set.

NOTE

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

4 Channel Level

Adjust channel levels to obtain equal volume from all speakers.

Test Tone

Select test tone playback method.

[Selectable items]

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

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

Test Tone Start

Output test tone.

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

Default

Resets the settings to the default values.

Not the second s

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

[Adjusting using test tones]

- 1 Press the $\ensuremath{\text{TEST}}$ button.
- Test tones are output from the various speakers.
- ③ When the adjustments are completed, press the **TEST** button again.

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- When the menu "Speaker Configuration" "Surround Back Speaker" setting (1277 page 24) is set to "1spkr", the surround back speaker display is set to "SB".
- Speakers set to "None" in the "Speaker Configuration" settings are not displayed.
- When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 46.

5 Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

[Selectable items]

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

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

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

Advanced :

Set the crossover frequency separately for the different speakers.

- The "Crossover Frequency" can be set when there are speakers that have been set to "Small" at menu "Speaker Configuration" or when "Subwoofer" is set to "Yes" (2) page 24).
- If in the "Advanced" settings, "Subwoofer Setup" (I page 24) in the menu is set to "LFE", it is possible to make this setting for speakers set to "Small" at "Speaker Configuration". If set to "LFE+Main", this setting can be made regardless of the speaker size.
- For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
- Always set the crossover frequency to "80Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.

Playback Remote Control Amp Assign Information

Troubleshooting

Getting Started Connections Setup Playback **Remote Control** Amp Assign Information Troubleshooting

Menu screen 2. Manual Setup 1. Speaker Setup 2-2. HDMI Setup 3. Audio Setup 4. Option Setup 2. HDMI Audio Setup 2. HDMI Video Setup

Make settings for HDMI video/audio output.

1 HDMI Audio Setup

Make settings for HDMI audio output.

HDMI Audio Out

HDMI Setup

Select HDMI audio output device.

[Selectable items]

TV

AMP : Use speakers connected to receiver for audio playback.

: Use speakers of monitor for audio playback.

2 HDMI Video Setup

Make settings for HDMI video output.

Color Space

Make settings for output color space.

[Selectable items]



: Output using YCbCr format.

B : Output using RGB format.

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

RGB Range

Make settings for RGB output range.

[Selectable items]

Normal : Use video range from 16 (black) to 235 (white).

Enhanced : Video range from 0 (black) to 255 (white). Use this setting to avoid black washout.

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

Audio Setup

Make settings for audio playback.

Menu screen •

2.Manual Setup	
1. Speaker Setup 2. HDMI Setup GP3. Audio Setup 4. Option Setup	2-3. Audio Setup IF 1. EXT. IN SW Level 2. 2ch Direct/Stereo 3. Dolby Digital Setup 4. Auto Surround Mode 5. Manual EQ

1 EXT. IN Subwoofer Level

Set the subwoofer level for playback.

[Selectable items]

0dB +5dB +10dB :

Select according to the player in use.

+15dB

This is the recommended level.

2 2ch Direct/Stereo

Make speaker settings for 2-channel mode playback.

Setting

To change the settings, select "Custom".

[Selectable items]

Basic : Use the same settings as in "Speaker Setup".

Custom : Make separate settings for 2-channel mode.

Getting Started Connections Setup Playback Remote Control Amp Assign Information

Troubleshooting

Front

Select front speaker size.

[Selectable items]

Large Small : Select front speaker size.

Subwoofer

Select subwoofer use.

[Selectable items]

Yes

No : Select subwoofer use.

Subwoofer Mode

Select low range signal to be reproduced by subwoofer.

[Selectable items]

LFE LFE+Main : Select subwoofer signal.

Crossover

Select crossover frequency from which subwoofer handles low range signal.

[Selectable items]

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

Distance FL

Set distance from listening position to front left speaker.

[Variable range] 0.00m ~ 18.00m

Distance FR

Set distance from listening position to front right speaker.

[Variable range] 0.00m ~ 18.00m

3 Dolby Digital Setup

Set dynamic range for downmix playback of Dolby Digital sources.

[Selectable items]



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

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

.

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

4 Auto Surround Mode

Make setting for memorizing surround mode setting for each input signal type.

[Selectable items]

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

- The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals listed below.
 - ① Analog and PCM 2-channel signals
 - (2) Dolby Digital and DTS 2-channel signals
 - ③ Dolby Digital and DTS multi-channel signals
- 4 Multi-channel signals other than Dolby Digital and DTS (PCM, etc.)
- When playing in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

5 Manual EQ

Adjust tonal quality for each speaker using graphic equalizer.

Base Curve Copy

Copy the Room EQ's "Audyssey Flat" correction curve.

[Selectable items]

No





"Base Curve Copy" is displayed after the auto setup procedure has been performed.

Adjust CH

Select speaker adjustment method.

[Selectable items]

Each CH : Adjust tonal quality for each speaker separately.

L/R CH : Adjust tonal quality for each L/R speaker pair.

ALL CH : Adjust tonal quality for all speakers together.

Manual EQ

Select the speaker and frequency band and adjust the level.

[Selectable items]	63Hz	125Hz	250Hz	500Hz	1kHz
	2kHz	4kHz	8kHz	16kHz	
[Variable range]	-20dB	~ 00	iB ~	+6dB	

Default

Resets the settings to the default values.

playback soun

ange [Se

Getting Started

Connections

Setup

Option Setup Make various other settings.

5. Quick Select Name 6. Remote ID Setup 7. Display	● Menu screen ●	
2. HDMI Setup 3. Audio Setup GF4. Option Setup GF4. Option Setup CF4. Option Setup C	2. Manual Setup	
8. Setup Lock	2. HDMI Setup 3. Audio Setup	IT1. Amp Assign 2. Vol. Control 3. Source Delete 4. On-Screen Display 5. Quick Select Name 6. Remote ID Setup

1 Amp Assign

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

The places where the surround back amplifier are used can be set freely according to the usage environment. This makes it possible to play the sound with high quality using the front speakers (bi-amp connections).

[Selectable items]

```
7.1ch
        FrontA Bi-Amp
                        FrontB Bi-Amp
```

<u>(</u>

For details, see "Amp Assign Connections and Operations" (@ page 52, 53).

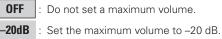
2 Volume Control

Set the volume setting.

Volume Limit

Make a setting for maximum volume.

[Selectable items]



2ch

- -10dB : Set the maximum volume to -10 dB. 0dB
 - : Set the maximum volume to 0 dB.

Power On Level

This sets the volume set when the power is turned on.

[Selectable items]



- Use the memorized setting from the last session. Always use the muting on condition when power is turned on.
- -80dB ~ +18dB Set the volume level when the power is turned on in units of 1 dB.

Mute Level

This sets the amount of attenuation of the volume when the mute mode is set

[Selectable items]



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

3 Source Delete

Remove input sources that are not used from the display.

[Selectable items]

ON : Use this source.

Delete : Do not use this source.

- Input sources being used in the various zones cannot be deleted.
- Input sources set to "Delete" cannot be selected using the SOURCE SELECT knob on the main unit or SOURCE SELECT button on the remote control unit.

4 On-Screen Display

Make on-screen display related settings.

Screensaver

Make screensaver settings.

Use the screensaver to prevent burn-in on the monitor screen. When set to "ON" the screensaver is activated if there is no activity for about 3 minutes.

[Selectable items]

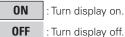
: Activate the screensaver if there is no activity for about 3 ON minutes.

OFF : Turn the screensaver function off.

Text

Input source and mode display.

[Selectable items]



Playback **Remote Control** Amp Assign

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Master Volume

Master volume display during adjustment.

[Selectable items]

ON	: Turn display on.

OFF : Turn display off.

Tuner Information

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

[Selectable items]

Always	:	Show	display	continuously.
--------	---	------	---------	---------------

30sec	: Show display for 30 seconds after operation.
10sec	: Show display for 10 seconds after operation.
OFF	: Turn display off.

iPod Information

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

[Selectable items]

Always : Show display continuously.

30sec

Show display for 30 seconds after operation.

10sec : Show display for 10 seconds after operation.

OFF : Turn display off.

Display Mode

Select the on-screen display's display mode.

[Selectable items]



Mode1 : If there is no video signal, flickering of the on-screen display is not prevented.

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.

5 Quick Select Name

Change the Quick Select name. Up to 15 characters can be input.

[Input characters]

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

6 Remote ID Setup

Set remote control ID.

[Selectable items] 1

When using the AVR-1908 with only the included remote control unit (RC-1078), there is no need to make settings.

2

3

7 Display

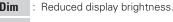
Adjust display brightness of the receiver.

[Selectable items]



OFF

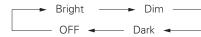
: Normal display brightness.



- Very low display brightness. Dark
 - Display is off unless controls are operated.

R Operating from the remote control unit

Press the **DIMMER** button.



Lociec	
ON	: Turn protection on.
OFF	: Turn protection off.
no lon attem · Men · RES	"Setup Lock" is set to "ON", the settings listed below can ger be changed. Also, "SETUP LOCKED!" is displayed if you of to operate related buttons. u operations TORER
. Niah	t Mode

- Night Mode
- · Parameter
- · Room EQ
- · Channel Level

8 Setup Lock

[Selectable items]

Protect settings from inadvertent change.

- Audio Delay
- To cancel the setting, press the MENU button to re-display the "Setup Lock" screen, then change the setting to "OFF".

Getting Started

Connections

Setup

Input Setup

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

□ TUNER (AM/FM)

This menu is for "TUNER".

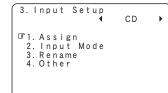
Menu screen

3. Input Setup	····	
2. Preset Skip 3. Preset Name 4. Input Mode 5. Rename		NER 🕨
	2. Preset Skip 3. Preset Name 4. Input Mode 5. Rename	

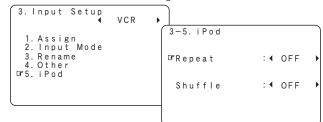
□ CD, AUX, CDR, DVD/HDP, TV/CBL, VCR, V.AUX

This menu is for "CD", "AUX", "CDR", "DVD/HDP", "TV/CBL", "VCR", "V.AUX".

Menu screen



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



Changing the input source within Input Setup

3.1	nput	Setup ⊡¶	CD	
2. 3.	Assig Inpu Renar Othe	t Mode ne		

The input source currently selected is not changed even when the

input source within Input Setup is changed.

Settings Related to Playing Input Sources

Auto Preset

Use the auto preset function to program radio stations.



[Selectable items]

Start : Start the auto preset process.

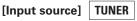
If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.

Preset Skip

Set the preset memories that you do not want to display when tuning.

A ~ G

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



[Selectable items]



Skip : Skip this number.

Preset Name

Assign name to a preset memory. Names containing up to 5 characters can be input.

A1 ~ G8

Select the preset memory number.

[Input source] TUNER

[Characters that can be input]

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

Getting Started Connections Setup Playback

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Analog : Play only signals from analog input. **EXT. IN** : Play only signals from EXT. IN input. CD || AUX || CDR || DVD/HDP [Input source] TV/CBL VCR V.AUX [Selectable items] Detect type of digital input signal and decode and play automatically.

(Operation on the main unit) □ Selecting the "AUTO", "PCM" or "DTS" mode Press the INPUT MODE button.

→ AUTO — PCM — DTS

Operating from the main unit or main remote

□ Selecting the analog mode Press the **ANALOG** button.

control unit

Selecting the EXT.IN mode Press the EXT.IN button.

[Operation on the main remote control unit] Press the INPUT button.



Rename

Change the display name for this source. Names containing up to 5 characters can be input.

[Characters that can be input]

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

Assign

Assign input sources to input connectors.

HDMI

Select HDMI connector to assign to this source.

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

[Selectable items]

HDMI1 : Assign HDMI1 input connector.

HDMI2 : Assign HDMI2 input connector.

None : No HDMI input connector assigned.

Input source	DVD/HDP	TV/CBL	VCR	V.AUX
Default setting	HDMI1	HDMI2	None	None

- With HDMI, the video and audio signals are transferred simultaneously. When HDMI is assigned to an input source, the audio signal switches to HDMI along with the video signal. To use with the digital audio input connectors assigned, set menu "Input Mode" to "AUTO".
- When the AVR-1908 and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

ø

AUTO

PCM

DTS

Analog

EXT. IN

Input Mode

[Input source] TUNER

[Selectable items]

Set the input mode for this source.

"Assign" setting (Pp page 31, 32).

The selectable input modes depend on the input source and

• Only set "PCM" and "DTS" when playing the respective signals.

Decode and play only PCM input signals.

Decode and play only DTS input signals.

Play only signals from analog input.

: Play only signals from EXT. IN input.

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

Digital In

Getting Started Connections Setup Playback **Remote Control** Amp Assign Information Troubleshooting

Select digital input connector to assign to this source.							
[Input so	ource]	CD AUX	CDR [OVD/HDP	TV/CBL		
		V.AUX					
[Selecta	ble item	s]					
COAX1	: Assigr	n COAXIAI	_ 1 input c	onnector.			
COAX2	: Assigr	n COAXIAI	_ 2 input c	onnector.			
OPT1	: Assigr	n OPTICAL	_ 1 input c	onnector.			
OPT2	: Assigr	OPTICAL	_ 2 input c	onnector.			
None	: No dig	ital input	connector	assigned.			
Input source	CD	AUX	DVD/HDP	TV/CBL	VCR		
Default setting	OPT1	None	COAX1	COAX2	OPT2		
Component In							
Select cor	nponent v	ideo input	t to assign	to this sou	urce.		
[Input so	ource]	DVD/HDP	TV/CBL	VCR	/.AUX		

Select digital input connector to assign to this source

[Selectable items]

1-RCA	:	Assign	component video	1	input connector.

2-RCA : Assign component video 2 input connector.

3-RCA : Assign component video 3 input connector.

None : No component video input connector assigned.

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

iPod dock

Assign Control Dock for iPod to this source.

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

[Selectable items]

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

VCR

V.AUX

None

- With the default settings, the Control Dock for iPod can be used connected to the VCR (iPod) connector.
- Even if "iPod dock" is set to "Assign", if the AVR-1908 is not connected to a Control dock for iPod, the input source can be used as the normal input source.

iPod

Make settings for "iPod" playback.

[Input source] CD AUX CDR DVD/HDP TV/CBL VCR

Repeat

Make settings for repeat mode.

[Selectable items]

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

Shuffle

Make settings for shuffle mode.

[Selectable items]

Songs : Shuffle all songs.

Albums : Shuffle songs from current album only.

OFF : Cancel shuffle mode.

.

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

Other

Make various other settings.

Video Select

Switch video input source while listening to audio signal.

[Selectable items]

DVD/HDP TV/CBL VCR V.AUX

Select video input source to view.

Source

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

Operating from the remote control unit

Press the **V. SELECT** button unit until the desired picture appears. ***** To cancel, press the **V. SELECT** button to select "Source".

NOTE

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

Video Convert

Automatically convert video input signal to monitor output format.

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

[Selectable items]

ON	:	Enable	conversion.
----	---	--------	-------------

OFF : Disable conversion

NOTE

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

Source Level

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



For input sources for which "AUTO" is set at the menu "Assign" setting, the analog input level and digital input level can be set separately.

Surround Modes

Standard Playback

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

Surround Playback of 2-channel Sources

To select these surround modes using the buttons on the remote control unit, press the **STD** button. The mode switches each time the button is pressed.

When using a surround back speaker

[Selectable items] DOLBY PLIIx DTS NE0:6

- U When not using a surround back speaker
 - [Selectable items] DOLBY PLII DTS NE0:6
 - DOLBY PLIIx or DOLBY PLII
 : The signals are decoded in DOLBY PLIIx or DOLBY PLII for playback.

 Cinema
 : This mode is suited for movie sources.

 Music
 : This mode is suited for music sources.
 - **Game** : This mode is suited for games.
 - Pro Logic : This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, "DOLBY PL" is displayed.
 - DTS NEO:6 : The signals are decoded in DTS NEO:6 for playback.
 ➤ Cinema : This mode is suited for movie sources.
 - **Music** : This mode is suited for music sources.

Select the "Cinema", "Music", "Game" and "Pro Logic" modes at menu "Parameter" – "Surround Parameter" – "MODE" (@ page 35).

Playing Multi-channel Sources (Dolby Digital, DTS, etc.)

[Selectable items]

STANDARD

This mode is for decoding the input signals according to their format and playing surround sound.

The display when the STANDARD mode is selected depends on the input signal and surround back output playback mode.

Input signal		Display		
Dolby	DOLBY DIGITAL	DOLBY DIGITAL		
Digital	(other than 2ch) /	DOLBY DIGITAL EX		
Source	DOLBY DIGITAL	DOLBY DIGITAL+PLIIx CINEMA		
Source	EX	DOLBY DIGITAL+PLIIx MUSIC		
	DTC /F 1ab) /	DTS SURROUND		
DTS (5.1ch) / DTS DTS-ES Discrete Surround Source 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 /	DTS+PLIIx CINEMA		
		DTS+PLIIx MUSIC		
		DTS+NEO:6		
		DTS ES MTRX6.1 (*1)		
		DTS ES DSCRT6.1 (*2)		
	DTS 96/24 (*3)			
		MULTI CH IN		
DVD-Audio	PCM (multi ch)	MULTI IN+PLIIx CINEMA		
		MULTI IN+PLIIx MUSIC		
		MULTI CH IN 7.1		

- *1 : This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-1908's "AFDM" setting is set to "ON".
- *2: This is displayed when the input signal is "DTS-ES Discrete 6.1".
- *3: This is displayed when the input signal is "DTS 96/24".

- For details, see page 59.
- Operate the **SURROUND BACK** button on the main unit to switch surround back channel on/off.

The SURROUND BACK indicator lights the $\ensuremath{\text{SURROUND}}$ BACK button on the main unit is on.

ENGLISH

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DSP Simulation Playback

The desired mode according to the program source and viewing situation can be selected from among 7 DENON original surround

The surround parameters can be adjusted (127 page 57, 58) to achieve an even more realistic, powerful sound field.

[Selectable items]

7CH STEREO	: This mode is for enjoying stereo sound from all speakers.	
ROCK ARENA	: This mode is for enjoying the atmosphere of a live concert in an arena.	
JAZZ CLUB	: This mode is for enjoying the atmosphere of a live concert in a jazz club.	
MONO MOVIE	: This mode is for playing monaural movie sources with surround sound.	
VIDEO GAME	: This mode is suited for achieving surround sound with video games.	
MATRIX	: This mode lets you add a sense of expansion to stereo music sources.	
VIRTUAL	: This mode is for enjoying surround effects using only the front speakers or headphones.	
: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.		
•		

- To select these surround modes using the buttons, press the **SIMU** button on the remote control unit. The mode switches each time the button is pressed.
- Depending on the program source being played, it may not be possible to achieve a satisfactory surround effect. In this case, try other modes to achieve a sound field suited to your tastes.

Stereo Playback

[Selectable items]

STEREO :

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

Direct Playback

[Selectable items]

DIRECT

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

The sound is output to the same channels as the input signal. The display when the DIRECT mode is selected depends on the input signal.

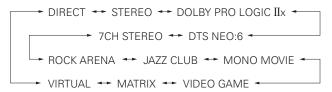
For multi-channel sources, the display depends on the surround back output's play mode.

Input signal	Display	
	Display	
Analog signal /		
PCM (2ch) /		
Dolby Digital source /	DIRECT	
DTS source /		
Other 2-channel digital signals		
	MULTI CH DIRECT	
PCM (multi ch)	M DIRECT + PLIIX CINEMA	
F CIM (Inditi Cil)	M DIRECT + PLIIX MUSIC	
	M DIRECT 7.1	

For details, see page 60.



Use the **SELECT/ENTER** knob to select the surround mode.



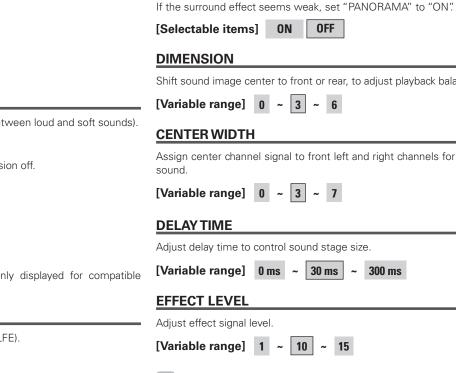
Playback in the PURE DIRECT Mode

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

$\label{eq:press} \mbox{ Press the } \textbf{PURE button on the remote control unit.}$

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

Getting Started Connections Setup Playback Remote Control Amp Assign Information



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

Troubleshooting

CINEMA EQ

Soften the treble range of movie soundtracks for better understanding.

[Selectable items]



OFF CINEMA EQ is not used.

D.COMP

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

[Selectable items]

OFF : Turn dynamic range compression off.

LOW : Low setting.

- MID Middle setting.
- **HIGH** : High setting.

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

LFE

Adjust the low-frequency effects level (LFE).

[Variable range] -10dB 0dB

For proper playback of the different program sources, we recommend setting to the values below.

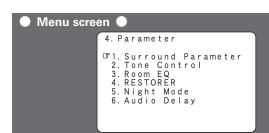
- Dolby Digital sources: "0 dB" • DTS movie sources:
- "0 dB" • DTS music sources: "-10 dB"

CENTER IMAGE

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

[Variable range] 0.0 0.3 1.0

Parameter



1 Surround Parameter

Adjust surround sound parameters.

The adjustable parameters differ for the different surround modes (12) page 57, 58).

MODE

Select the mode according to the playback source.

□ In the PLIIx or PLII mode

[Selectable items] CINEMA MUSIC GAME PL

*: Can be selected in the PLII mode.

□ In the DTS NEO:6 mode

[Selectable items] CINEMA MUSIC



- **CINEMA** : Surround sound mode optimized for movie sources.
- MUSIC : Surround sound mode optimized for music sources.
- GAME : Surround sound mode optimized for games.
- PL Dolby Pro Logic playback mode.

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

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PANORAMA

Shift sound image center to front or rear, to adjust playback balance. Assign center channel signal to front left and right channels for wider

30 ms ~ 300 ms

Assign front L/R signal also to surround channels, for wider sound.

Getting Started

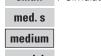
Connections

ROOM SIZE

Determine size of acoustic environment.

[Selectable items]

small : Simulate acoustics of a small room.



NOTE

"ROOM SIZE" does not indicate the size of the room in which sources are played.

AFDM (Auto Flag Detect Mode)

Auto-select surround mode by source.

This function only works for software containing a special identification signal.

If the software being played is recorded in Dolby Digital EX or DTS-ES, it is played in 6.1-channels. If not, it is played in 5.1-channels.

[Selectable items] ON OFF

Example : Playing Dolby Digital software (with EX flag)

- When "AFDM" is set to "ON", the surround mode is automatically set to the DOLBY + PLIIx CINEMA mode.
- To play in the Dolby Digital EX mode, set "AFDM" to "OFF" and "SB CH OUT" to "MTRX ON".

Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when "AFDM" is set to "ON", set "SB CH OUT" to "MTRX ON" or "PLIIx CINEMA".

SB CH OUT (for Multi-channel sources)

Select playback mode for surround back channels. The surround back indicator lights.

[Selectable items]

- **OFF** : No signal is played from the surround back channels.
- **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.
- PLIIx CINEMA * I : Decoded in Dolby Pro Logic IIx Cinema mode, surround back signal played.
- **PLIIx MUSIC** *2 : Decoded in Dolby Pro Logic IIx Music mode, surround back signal played.
- **ES MTRX** *³ : DTS signal played with digital matrix processing.
- **ES DSCRT** *4 : Signal included in DTS-ES Discrete 6.1-channel sources played.
- *1: This can be selected when "Surround Back Speaker" is set to "2spkrs" at the menu "Manual Setup" – "Speaker Setup" – "Speaker Configuration" setting (27) page 24).
- *2: This can be selected when "Surround Back Speaker" is set to "2spkrs" or "1spkr" at the menu "Manual Setup" – "Speaker Setup" – "Speaker Configuration" setting.
- *3: This can be selected when playing DTS sources.
- *4: This can be selected when playing DTS sources including a discrete 6.1-channel signal identification signal.

SB CH OUT (for 2-channel sources)

Determine whether to use surround back speakers.

[Selectable items]

ON : ⁻

: The surround back channel signal is played.

OFF : The surround back channel signal is not played.

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

SWATT (Subwoofer Attenuate)

Attenuate subwoofer level when using EXT. IN mode.

[Selectable items]

°' ON

: The input from the subwoofer channel is attenuated.

: The input from the subwoofer channel is not attenuated. Usually use in this mode.

_

OFF

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

Subwoofer

Turn subwoofer output on and off.

[Selectable items]

ON : The subwoofer is used.

OFF : The subwoofer is not used.

Default

Resets the settings to the default values.

_

Getting Started

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2 Tone Control

Adjust the tonal quality of the sound.

Tone Defeat

Turn tone adjustments off.

[Selectable items]

ON : Playback without tone adjustment.

OFF : Allow tone adjustment (treble, bass).

ø

The tone cannot be adjusted when in the DIRECT mode.

Bass

Adjust low frequency range (bass).

[Variable range] -6dB ~ +6dB

Treble

Adjust high frequency range (treble).

[Variable range] -6dB ~ +6dB



"Bass" and "Treble" can be set when "Tone Defeat" is set to "OFF".

3 Room EQ

Select room equalizer for current environment.

[Selectable items]

Audyssey	: Optimize frequency response of all speakers.		
Audyssey Byp. L/R	: Optimize frequency response of speakers except front L and R speakers.		
Audyssey Flat	 Optimize frequency response of all speakers to flat response. Apply frequency response set with "Manual EQ" (27) page 27). 		
Manual			
OFF	: Turn equalizer off.		

Audyssey - Audyssey Byp. L/R

- → OFF → → Manual → Audyssey Flat →
- The "Audyssey" is selected, the "Audyssey MultEQ" indicator lights green.
- The "Audyssey Byp. L/R" or "Audyssey Flat" is selected, the "Audyssey Mult EQ" indicator lights red.

• "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be

- selected after the auto setup procedure has been performed.
- If the settings of the speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected and measurements have to be taken again to include the newly-added speakers.

• When using headphones, "Room EQ" is always set to "OFF".

4 RESTORER

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

[Selectable items]

OFF :

Do not use RESTORER.

Mode1 (RESTORER 64):

Optimized mode for compressed sources with very weak highs.

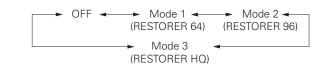
Mode2 (RESTORER 96):

Apply suitable bass and treble boost for all compressed sources.

Mode3 (RESTORER HQ):

Optimized mode for compressed sources with normal highs.

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



About the **RESTORER** function

- Such compressed audio formats as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.
- This is displayed on the menu and can be set when the analog signals (including AM/FM signals) or PCM signals (fs = 44.1/48 kHz) are input.

5 Night Mode Optimized setting for late-night listening. [Selectable items] **OFF** : Turn night mode off. **LOW** : Low setting. MID : Middle setting. **HIGH** : High setting. **Operating from the remote control unit** Press the **NIGHT** button → OFF — → LOW — → MID — HIGH -6 Audio Delay

Compensate for mismatched timing between video and audio.

Delay audio.

This sets the delay time for audio signals.

[Variable range] 0 ms ~ 200 ms

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

This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large", "Tone Defeat" to "ON" and "Room EQ" to "OFF".)

Information

Information can be called out directly by pressing the **DISPLAY** button on the remote control unit.

Status

Shows information about current settings.

Menu screen 5. Information 5-1. Status 🕼 1. Status 2. Audio Input Signal 3. HDMI Information Select Source:DVD/HDP :DVD/HDP Name 4. Auto Surround Mode 5. Quick Select Surround Mode: 6. Preset Station STEREO Input Mode : AUTO 1/4

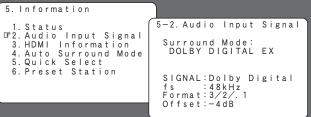
[Items to be checked]

Select Source Name		Sı	urround Mode	Input Mode	
Rec Select	Vi	deo Select		Source Level	Room EQ
Night Mode	R	ESTORE	R	etc.	

Audio Input Signal

Shows information about audio input signals.

🔵 Menu screen 🔵



[Items to be checked]

Surround Mode	: The currently set surround mode is displayed.		
SIGNAL	: The input signal type is displayed.		
fs	: The input signal's sampling frequency is displayed.		
Format	: The number of channels in the input signal (front, surround, LFE) is displayed.		
Offset	: The dialogue normalization correction value is displayed.		
Flag	: "MATRIX" is displayed if the input signal has undergone matrix processing, "DISCRETE" if the		
	input signal has undergone discrete processing.		

Dialogue normalization function

This is automatically activated when playing Dolby Digital sources. This function automatically corrects the standard signal level for individual program sources.

The correction value can be checked using the STATUS button on the remote control unit.

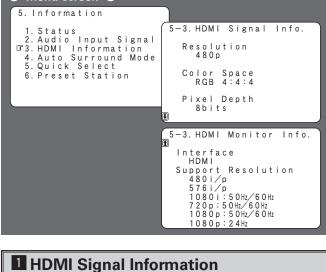


corrected.

HDMI Information

Shows information about HDMI input/output signals and monitor.

Menu screen



The HDMI input/output signal information is displayed.

[Items to be checked]

Resolution Color Space Pixel Depth

2 HDMI Monitor Information

The HDMI monitor information is displayed.

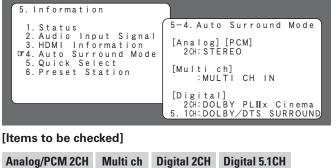
[Items to be checked]

Interface Support Resolution

Auto Surround Mode

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

🔵 Menu screen 🔵



Quick Select

Shows information about quick select settings.

🕘 Menu screen 🔵			
5. Information			
1. Status 2. Audio Input Signal 3. HDMI Information	5-5. Quick	Select	
3. HDMI Information 4. Auto Surround Mode IF5. Quick Select 6. Preset Station	☞1. Quick 2. Quick 3. Quick	Select	2

[Items to be checked]

Name Input Source Input Mode Volume Level

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

For instructions on storing settings at Quick Select 1 to 3, see page 47.

Preset Station Shows information about preset stations. Menu screen 5. Information 5-6. Preset Station 1. Status 2. Audio Input Signal A 1 FM 87.50 MHz 3. HDMI Information A 2 FM 89.10 MHz 4. Auto Surround Mode A 3 FM 98. 10 MHz 5. Quick Select A 4 FM 1 0 8. 0 0 MHz G. Preset Station A 5 FM 90.10 MHz A 6 FM 90.10 MHz A7FM 90.10MHz A8FM 90.10MHz T TUNER [Input source] [Items to be checked] A1 ~ G8

When the **STATUS** button on the remote control unit is pressed, the set's status can be checked on the display.

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SOURCE SELECT BAND SHIFT <PHONES> <SOURCE> MASTER VOLUME (0.0)-Q. 0 $(\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc)$ <POWER> PRESET CHANNEL <ON/STANDBY> <SPEAKER> TUNING [Front] [**OFF**] [ON/SOURCE] SHIFT + PRESET **SOURCE SELECT -**CHANNEL \bigcirc Δ **MASTER VOLUME** (\triangledown) - [MUTING] [MODE [MODE **SELECTOR 2**] **SELECTOR 1**] [Rear] [TUNER] 4 5 6 SOURCE SELECT 7 (8) (9) AUX (0 (10) TUNING [MODE] BAND [MEMORY]

About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Playback

Preparations

Turning the Power On

Press **<POWER>**.

The power indicator lights red and the power is set to the standby mode.

2 Press <**ON/STANDBY**> or [**ON/SOURCE**].

Let The power indicator flashes green and the power turns on.

Turning the Power Off

1) Press **<0N/STANDBY>** or **[OFF]**.

The power is set to the standby mode. (2) Press **<POWER>**.

Press **<Puvver>**.

The power indicator turns off, and so does the power.

NOTE

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

Selecting the input source

Operation on the main unit

Turn **<SOURCE SELECT>**.

If "Rec Select" is selected for the input source, press <**SOURCE>** before turning <**SOURCE SELECT>**.

Operation on the remote control unit

Set [MODE SELECTOR 1] to "AUDIO" then press [SOURCE SELECT].

The desired input source can be selected directly.

Operations During Playback

Adjusting the Master Volume

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

Turning Off the Sound Temporarily (Muting)

Press [MUTING].

To cancel, press **[MUTING]** again. Muting can also be canceled by adjusting the master volume.

Listening with Headphones

Plug the headphones into <PHONES>. The sound from the speakers and pre-out connectors is automatically cut.

NOTE

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

Switching the front speakers

Press <**SPEAKER**>.

Getting Started Connections Setup Playback Remote Control Amp Assign Information Troubleshooting

Playing Video and Audio Equipment

Basic Operation

Prepare the equipment.

- ①Load the DVD, CD or other software in the player.
 (12) See the operating instructions of the respective devices.)
 ② To play a video device, switch the monitor input.
 (12) See the monitor's operating instructions.)
- **2** Use SOURCE SELECT to select the input source.

3 Set [MODE SELECTOR 1] to "AUDIO" or "VIDEO".

4 Set [MODE SELECTOR 2] to the component you want to operate.

5 Start playback.

(B See the operating instructions of the respective devices.)

Basic Operation

1 Either turn **<SOURCE SELECT>** or press **[TUNER]** to select "TUNER".

2 Set [MODE SELECTOR 1] to "AUDIO".

(🖙 page 48 "Remote Control Unit Operations")

3 Press **BAND** to select "FM" or "AM".

4 Tune in the desired broadcast station.

To tune in automatically (Auto Tuning) Press [MODE] to light the "AUTO" indicator on the display, then use TUNING to select the station you want to hear.

② To tune in manually (Manual Tuning) Press [MODE] to turn off the display's "AUTO" indicator, then use

TUNING to select the station you want to hear.

.

- It is also possible to switch to "FM" or "AM" in step 1 by pressing [TUNER].
- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold **TUNING** to change frequencies continuously.
- The time for which the on-screen display are displayed can be set at "Manual Setup" – "Option Setup" – "On-Screen Display" (P page 28).

Presetting	Radio	Stations
Preset Me	mory)	

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

Tune in the broadcast station you want to preset.

9 Press [MEMORY].

3 Press **SHIFT** to select the block (A to G) in which the station is to be preset.

4 Press **PRESET CHANNEL** to select the preset number (1 to 8).

5 Press [MEMORY] again to complete the setting.

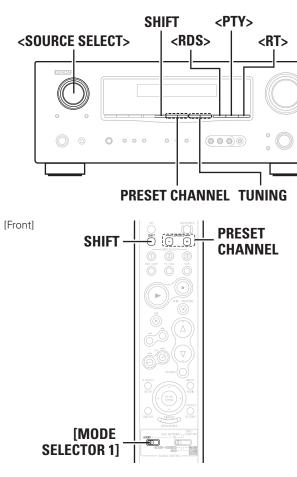
• To preset other stations, repeat steps 1 to 5.

• Stations can be preset automatically at menu "Input Setup" – "Auto Preset" (127 page 30).

NOTE

Preset stations are erased by overwriting them.





[Rear]

Listening to Preset Stations

Press SHIFT to select the memory block (A to G).

2 Press **PRESET CHANNEL** to select the desired preset channel (1 to 8).

Default settings

Auto tuner presets		
A1 ~ A8	87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 / 90.1 MHz	
B1 ~ B8	522 / 603 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 MHz	
C1 ~ C8	90.1 MHz	
D1 ~ D8	90.1 MHz	
E1 ~ E8	90.1 MHz	
F1 ~ F8	90.1 MHz	
G1 ~ G8	90.1 MHz	

RDS (Radio Data System)

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

Program Type (PTY)

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

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

Traffic Program (TP)

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

Radio Text (RT)

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

NOTE

The operations described below using **<RDS**>, **<PTY>** and **<RT>** will not function in areas in which there are no RDS broadcasts.

About the button names in these explanations

[TUNER]

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

RDS Search

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

Either turn **<SOURCE SELECT>** or press **[TUNER]** to select "TUNER".

Set [MODE SELECTOR 1] to "AUDIO".

(1) page 48 "Remote Control Unit Operations")

3 Press **<RDS>** until "RDS SEARCH" appears on the display.

Press PRESET CHANNEL.

The search for RDS stations begins automatically.

- $\ensuremath{\mathbbmm{K}}$ If no RDS stations are found with the above operation, all the reception bands are searched.
- * When a broadcast station is found, that station's name appears on the display.

5 To continue searching, repeat steps 2 to 3.

% If no RDS station is found when all the frequencies have been searched, "NO RDS" is displayed.

PTY Search

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

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

1 Either turn **<SOURCE SELECT>** or press **[TUNER]** to select "TUNER".

2 Set [MODE SELECTOR 1] to "AUDIO". ((T) page 48 "Remote Control Unit Operations")

3 Press **<RDS>** until "PTY SEARCH" appears on the display.

4 Watching the display, press **<PTY>** to call out the desired program type.

F Press PRESET CHANNEL.

O PTY search begins automatically.

***** If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.

* The station name is displayed on the display after searching stops.

6 To continue searching, repeat steps 2 to 4.

If no station broadcasting the designated program type is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

TP Search

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

Either turn **<SOURCE SELECT>** or press **[TUNER]** to select "TUNER".

Set [MODE SELECTOR 1] to "AUDIO".

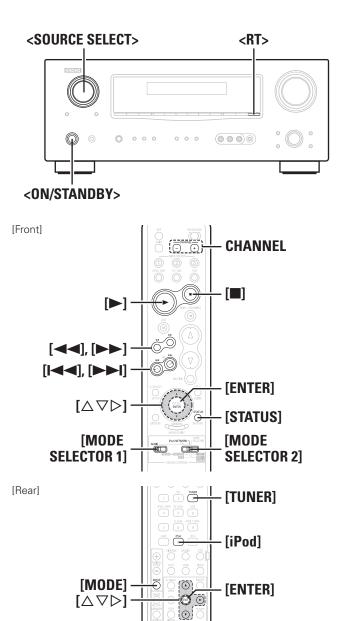
3 Press **<RDS>** until "TP SEARCH" appears on the display.

Press PRESET CHANNEL.

- TP search begins automatically.
- * If no TP station is found with the above operation, all the reception bands are searched.
- * The station name is displayed on the display after searching stops.

To continue searching, repeat steps 2 to 3.

* If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.



About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

RT (Radio Text)

"RT" appears on the display when radio text data is received.

Either turn **<SOURCE SELECT>** or press **[TUNER]** to select "TUNER".

Set [MODE SELECTOR 1] to "AUDIO".

3^{Press <**R**T>.}

* While receiving an RDS broadcast station, the text data broadcast from the station is displayed.

* To turn the display off, press <RT>.

* If no text data is being broadcast, "NO TEXT DATA" is displayed.

iPod[®] Playback

The music on an iPod can be played by using the Control Dock for iPod (ASD-1R, sold separately).

The operation can also be performed using the buttons on the main unit or remote control unit while watching the menus.

- **i**Pod is a trademark of Apple Inc., registered in the U.S. and other countries.
- The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

Basic Operation

Make the necessary preparations.

Set the iPod in the DENON Control Dock for iPod.
 See the Control Dock for iPod's operating instructions.)
 Assign the Control Dock for iPod's input.

MENU : "Input Setup" – "Assign" – "iPod dock" (© page 32)

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



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

3 Set [MODE SELECTOR 1] to "AUDIO" and [MODE SELECTOR 2] to "iPod/NETWORK".

(CP page 48 "Remote Control Unit Operations")

- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is "Mode3".
- Press **<0N/STANDBY>** and set the AVR-1908's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the menu "iPod dock" is not assigned before disconnecting the iPod.

NOTE

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

Listening to Music

1 Use $[\triangle \nabla]$ to select the menu, then press [ENTER] or $[\triangleright]$ to select the music file to be played.

Press [ENTER] or $[\triangleright]$. Plavback starts.

Stopping playback temporarily

During playback, press **[ENTER]** or **[▶]**. Press again to resume playback.

Fast-forwarding or fast-reversing

During playback, either press and hold $[\Delta]$ (to fast-reverse) or $[\nabla]$ (to fast-forward), or press $[\neg \neg]$ or $[\triangleright \triangleright]$.

To cue to the beginning of a track

During playback, either press [Δ] (to cue to the previous track) or [∇] (to cue to the next track), or press [**I** \triangleleft] or [**>>**].

To stop

During playback, either press and hold [ENTER] or press [I].

Playing repeatedly Press [CHANNEL –].

TIESS [CITAINILL -].

[Selectable items] All One OFF

(MENU : "Input Setup" – "iPod" – "Repeat" (🖙 page 32)

Shuffling playback

Press [CHANNEL +].

[Selectable items] Albums Songs OFF

MENU : "Input Setup" – "iPod" – "Shuffle" (@ page 32)

To switch between the Browse and Remote modes Either press and hold [MODE].

A

- The title name, artist name and album name can be checked by pressing [STATUS] during playback.
- On the AVR-1908, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with ". (period)".
- The time for which the on-screen display are displayed can be set at menu "Manual Setup" – "Option Setup" – "On-Screen Display" – "iPod Information" (P page 29).

Viewing Still Pictures or Videos on the iPod

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

Press and hold [MODE] to set the Remote mode.

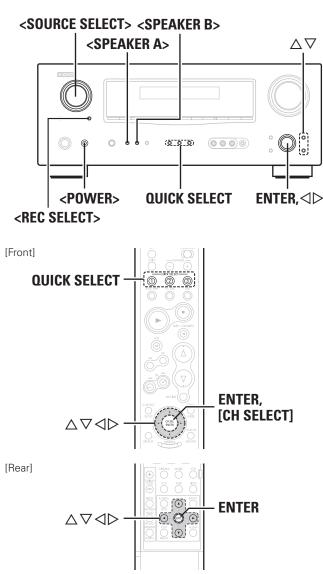
2 Watching the iPod's screen, use $[\triangle \nabla]$ to select "Photos" or "Video".

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

"TV Out" at the iPod's "Slideshow Settings" or "Video Settings" must be set to "On" in order to display the iPod's photo data or videos on the monitor. For details, see the iPod's operating instructions.

Connections S.





About the button names in these explanations

- < > : Buttons on the main unit
- [] : Buttons on the remote control unit



Buttons on the main unit and remote control unit

Other Operations and Functions

Other Operations

Recording on an External Device (REC OUT mode)

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

1 Press **<REC SELECT>** until "RECOUT" appears on the display.

2 Turn **<SOURCE SELECT>** to choose the input source to be recorded.

The "REC" indicator and the indicator for the selected source light.

RECOUT SOURCE - RECOUT TUNER - RECOUT V.AUX

9 Play the program source.

For operating instructions, refer to the respective equipment's operating instructions. To record FM or AM broadcasts, select the broadcast (Imp page)

41).

Start recording.

For operating instructions, refer to the respective equipment's operating instructions.

6

- To cancel, press **<REC SELECT>**, then turn **<SOURCE SELECT>** until "RECOUT SOURCE" is displayed.
- Make a test recording before starting the actual recording.
- The source selected is output from the digital output connector (OPTICAL 2).

The source selected in the REC SELECT mode is not associated with the output from the digital output connector (OPTICAL 2).

NOTE

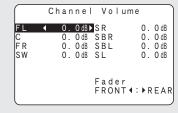
- Digital signals are not output from the analog REC OUT connector.
- Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
- Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

Convenient Functions

Channel Level

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

◀ Press <ENTER> or [CH SELECT].



2 Use $\triangle \nabla$, **ENTER**> or [CH SELECT] to select the speaker.

The speaker that can be set switches each time one of the buttons is pressed.

Use $\triangleleft \triangleright$ to adjust the volume.

※ "OFF" can be set by pressing < when the subwoofer's volume is set to −12 dB.

		ENGLISH
Fader Function This function lets you adjust (fade) the sound from all the front or rear speakers at once. 1 Press <enter> or [CH SELECT].</enter>	Personal Memory Plus Function This function sets the settings (input mode, surround mode, etc.) last selected for the individual input sources. When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.	Resetting the Microprocessor Perform this procedure if the display is abnormal or if operations cannot be performed. When the microprocessor is reset, all the settings are reset to their default values. Turn off the power using <power>.</power>
2 Press $\triangle \nabla$, <enter> or [CH SELECT] to select "Fader". 3 Use $\triangleleft \triangleright$ to adjust the volume of the speakers. (\triangleleft: front, \triangleright: rear)</enter>	The surround parameters, tone control, room EQ settings and the volumes of the different speakers are stored for the individual surround modes.	 1 Turn on the power using <rowen>.</rowen> 2 Press <power> while simultaneously pressing </power> <speaker a=""> and <speaker b="">.</speaker></speaker> Once the display starts flashing at intervals of about 1
 The fader function does not affect the subwoofer. The fader can be adjusted until the volume of the speaker adjusted to the lowest value is -12 dB. 	Last Function Memory This stores the settings as they were directly before the standby mode was set. When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.	3 second, release the two buttons. If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.
Quick Select FunctionWith this function, the currently playing input source, input mode, surround mode, room EQ settings and volume can be stored in the memory.1 Set the input source, input mode, surround mode, room EQ settings and volume to the conditions you	Backup Memory The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.	
want to store. 2 Press and hold the desired QUICK SELECT until "Memory" appears on the display. [Quick Select Defaults]		
Input Source Volume Quick Select 1 DVD/HDP -40 dB		

[Quick Select Defaults]

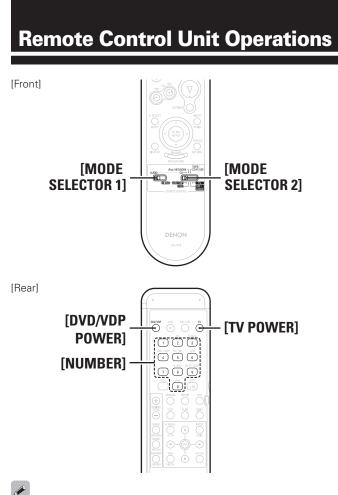
	Input Source	Volume
Quick Select 1	DVD/HDP	-40 dB
Quick Select 2	TV/CBL	–40 dB
Quick Select 3	VCR	–40 dB

- To call out the settings, press QUICK SELECT at which the desired settings were stored.
- The Quick Select name can be changed (12) page 29).

NOTE

Input sources stored with the quick select function cannot be selected if they have been deleted at menu "Manual Setup" - "Option Setup"

- "Source Delete" (1 page 28). In this case, store them again.



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

Operating DENON Audio Components

Set [MODE SELECTOR 1] to "AUDIO".

2 Set [MODE SELECTOR 2] to the position for the component to be operated (CD, iPod/NETWORK or TAPE/CD-R/MD).

Operate the audio component.

For details, refer to the component's operating instructions.
 While this remote control is compatible with a wide range of infrared controlled components, it may be the case that some component models cannot be operated with this remote control.

Presetting

• DENON and other makes of components can be operated by setting the preset memory.

Operation is not possible for some models.

Set [MODE SELECTOR 1] to "AUDIO" or "VIDEO".

Set to the AUDIO side for the CD or TAPE/CD-R/MD position, and to the VIDEO side for the DVD/VDP, SAT/CABLE, VCR or TV position.

2 Set [MODE SELECTOR 2] to the component to be registered.

3 Press [DVD/VDP POWER] and [TV POWER] at the same time.

The indicator starts flashing.

4 Referring to the included list of preset codes, press [NUMBER] to input the preset code (a 3-digit number) for the manufacturer of the component whose signals you want to store in the memory.

5 To store the codes of another component in the memory, repeat steps 1 to 4.

- The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit's transmitting window while setting the preset memory.
- Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed in the 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 verify correct operation.
- The preset memory can be set for one component only among the following: TAPE/CD-R/MD, DVD/VDP and SAT/CABLE.

Operating Preset Components set [MODE SELECTOR 1] to "AUDIO" or "VIDEO".

Set to the AUDIO side for the CD or TAPE/CD-R/MD position, and to the VIDEO side for the DVD/VDP, SAT/CABLE, VCR or TV position.

2 Set [MODE SELECTOR 2] to the component you want to operate.

3 Operate the component.

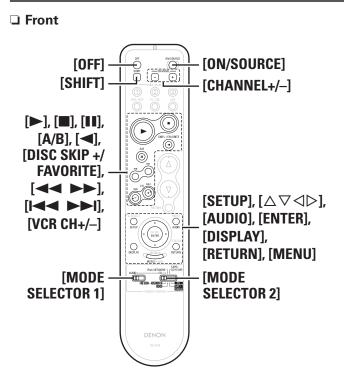
(

* For details, refer to the component's operating instructions.* Some models cannot be operated with this remote control unit.

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AmpAssign Information Troubleshooting

Functions of Buttons by Component



Device operated	CD Player	iPod	CD Recorder	MD Recorder	Tape Deck	DVD Player	Video disc player	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)
MODE SELECTOR 1			AUDIO					VIDEO			
MODE SELECTOR 2	CD	iPod/ NETWORK	TA	PE / CD-R / M	D	DVD	/ VDP	VCR	SAT /	CABLE	τv
OFF	-	-	-	—	-	Power off	-	_	_	_	-
ON/SOURCE	-	_	-	-	-	Power on	Power on / Standby	Power on / Standby	Power on / Standby	Power on / Standby	Power on / Standby
SHIFT	Preset channel	Preset channel	Preset channel	Preset channel	Preset channel	_	-	-	_	-	_
	selection	selection	selection	selection	selection	0.111	0.111	0.111	0.141	0.111	0.111
CHANNEL +	Preset channel selection	1-track/ album shuffle play	Preset channel selection	Preset channel selection	Preset channel selection	Switch Channels (+)	Switch Channels (+)	Switch Channels (+)	Switch Channels (+)	Switch Channels (+)	Switch Channels (+)
	Preset	1-track/All-	Preset	Preset	Preset	Switch	Switch	Switch	Switch	Switch	Switch
CHANNEL -	channel selection	track repeat	channel	channel selection	channel selection	Channels (–)	Channels (–)	Channels (–)	Channels (–)	Channels (–)	Channels (–)
	Play	Play / Pause	Play	Play	Play	Play	Play	Play	(-)	(-)	()
■ ■, A/B	Stop Pause	Stop –	Stop Pause	Stop Pause	Stop A/B switching	Stop Pause	Stop Pause	Stop Pause			
◄, DISC SKIP +	Disc skip +	_	-	-	Reverse	Disc skip	-	-			
44 >>	Manual Search (fast-reverse / fast-forward)	Manual Search (fast-reverse / fast-forward)	Manual Search (fast-reverse / fast-forward)	Manual Search (fast-reverse / fast-forward)	Rewind / Fast forward	Manual Search (fast-reverse / fast-forward)	Manual Search (fast-reverse / fast-forward)	Manual Search (fast-reverse / fast-forward)	Punch through	Punch through	Punch through
I ⊲⊲ ►► I VCR CH + / –	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	-	Auto search (cue)	Auto search (cue)	Switch Channels (–, +)			
SETUP	-	-	_	_	_	Setup	-	_	-	-	-
$\land \lor \land \lor$	-	Cursor	-	-	-	Cursor operation	-	-	Cursor operation	Cursor operation	Cursor operation
AUDIO	-	-	-	-	-	Switching the audio signal	-	_	_	-	-
ENTER	-	Enter	_	_	_	Enter setting	-	_	Enter setting	Enter setting	Enter setting
DISPLAY	_	-	_	_	-	Switching the display	_	_	Switching the display	Switching the display	Switching the display
RETURN	-	_	-	-	-	Return	-	-	Return	Return	Return
MENU	-	-	-	-	-	Calling out the menus	-	-	Calling out the menus	Calling out the menus	Calling out the menus

Getting Started

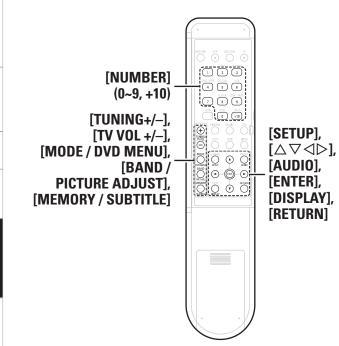
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□ Rear



Device operated	CD Player	iPod	CD Recorder	MD Recorder	Tape Deck	DVD Player	Video disc player	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)
MODE SELECTOR 1			AUDIO					VIDE	50		
MODE SELECTOR 2	CD	iPod/ NETWORK	TA	.PE / CD-R / I	VID	DVD		VCR	SAT / CABLE		τν
NUMBER (0 ~ 9, +10)	_	-	-	_	_	Number input / Track selection	Number input / Track selection	-	Channels	Channels	Channels
TUNING (+, -) / TV VOL (+, -)	Tuning (+, —)	Tuning (+, —)	Tuning (+, —)	Tuning (+, -)	Tuning (+, —)	Volume control (+, –)	Volume control (+, –)	Volume control (+, –)	Volume control (+, –)	Volume control (+, –)	Volume control (+, –)
MODE/ DVD MENU	Switch search modes	Switch search modes / Browse/Remote mode switching (Press and hold)	Switch search modes	Switch search modes	Switch search modes	Calling out the menus	-	_	Calling out the menus	Calling out the menus	Calling out the menus
SETUP	—	-	-	_	-	Setup	_	-	-	-	—
${\vartriangle} ~ {\bigtriangledown} ~ {\triangleleft} ~ {\triangleright}$	-		-	-	-	Cursor operation	-	-	Cursor operation	Cursor operation	Cursor operation
AUDIO	—	-	-	_	-	Audio	-	-		-	-
BAND / Picture Adjust	AM/FM switching	AM/FM switching	AM/FM switching	AM/FM switching	AM/FM switching	Picture adjust	-	-	-	-	-
ENTER	-	-	-	-	-	Enter setting	-	-	Enter setting	Enter setting	Enter setting
MEMORY / SUBTITLE	Preset memory	Preset memory	Preset memory	Preset memory	Preset memory	Subtitle	-	-	-	-	-
DISPLAY	—	-	-	-	-	Switching the display	-	-	Switching the display	Switching the display	Switching the display
RETURN	_	-	-	—	-	Return	-	-	Return	Return	Return
Default setting (Preset code)	DENON (111)	_	DENON (151)	_	_	DENON (111)	-	HITACHI (108)	-	ABC (007)	HITACHI (134)
Special Remarks	1	-		1		1,	2	1	1,	3	1), 3

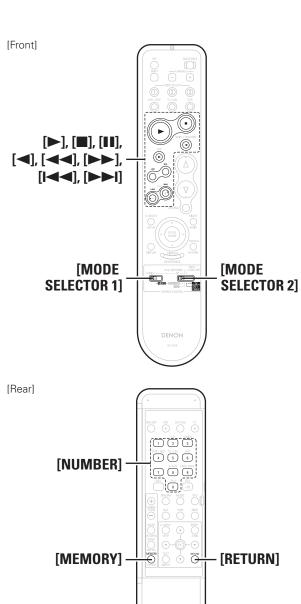
[Special Remarks]

① Only one device can be set in the preset memory for each mode. Also, when a new code is preset, the previous code is automatically deleted.

② For some brands, the DVD remote control buttons may have different function names. Check beforehand.

(3) One of the following buttons can be assigned to the TV and satellite receiver or cable TV: CD, TAPE/CD-R/MD, VCR, DVD/VDP (1) regrage 51 "Punch Through Function").





Punch Through Function "Punch Through" is a function allowing you to operate >, I, II, ◄, ◄◄, ►►, ◄◄ and ►► on CD, iPod/NETWORK, TAPE/CD-R/MD, DVD/VDP or VCR components when in the SAT/CABLE or TV mode. By default, nothing is set. Set [MODE SELECTOR 1] to "VIDEO". ▲ Set [MODE SELECTOR 2] to the component to be registered (SAT/CABLE or TV). **3** Press [MEMORY] and [RETURN] at the same time. The indicator starts flashing. **4** Input the number of the component you want to set. No. CD 1 iPod/NETWORK 2 TAPE/CD-R/MD 3

4

5

0

DVD/VDP

No setting

VCR

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Amp Assign Connections and Operations

The AVR-1908 is compatible with the following types of playback:

- 5.1-channel playback 2-channel playback
- Bi-amp playback (front speakers)

NOTE

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

Settings with the Amp Assign Function

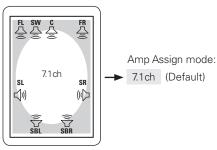
The Amp Assign function lets you assign the amplifiers for the different channels built into the AVR-1908 to the speaker outputs for the different zones.

Select the desired playback environment from among "Setting 1" to "Setting 3," then set the corresponding "Amp Assign" mode at menu "Manual Setup" – "Option Setup" – "Amp Assign" (12) page 28).

Connect the speakers as described at "Amp Assign" mode settings and speakers connected to the various speaker terminals.

"Setting 2" is possible to switch the Amp Assign mode between the 5.1-channel mode and 2-channel mode without changing the speaker connections.

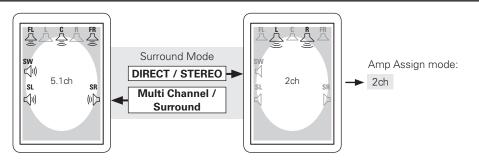
Setting 1 : •7.1-channel playback



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

Speaker terminal	Speaker terminal FRONT mp Assign mode R L				RR	SURR. BACK / AMP ASSIGN		
Amp Assign mode	R	L		R	L	R	L	
7.1ch	FR	FL	С	SR	SL	SBR	SBL	

Setting 2: With this setting it is possible to switch between the following two playback modes. ●5.1-channel playback ← ► 2-channel playback SwitchingSurround Mode switching



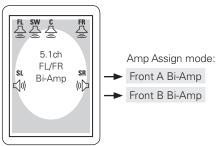
□ Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal	FRC	DNT	CENTER	SU	RR	SURR. BACK / AMP ASSIGN		
Amp Assign mode	R	L		R	L	R	L	
2ch	FR	FL	С	SR	SL	FR	FL	

Setting 3 :

•Making bi-amp connections for the FL and FR channels and conducting 5.1-channel playback

(switching with other modes not possible)



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

Speaker terminal		NT-A	FRO	NT-B	CENTER	SU	RR	SURR. BA ASS	
Amp Assign mode	R	L	R	L		R	L	R	L
Front A Bi-Amp		FL-A	FR-B	FL-B	С	SR	CI	FR FL-A/FR-/ conne	FL A Bi-Amp ection
Front B Bi-Amp	FR-A	ΓĿΑ	гп-в	ГЕВ	U	24	SL		FL B Bi-Amp ection

Other Information

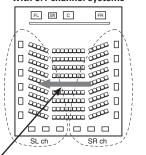
About Speaker Installation

Surround back speakers

Sound positioning directly to the rear can be achieved easily by adding a surround back speaker to a 5.1-channel system.

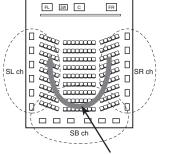
In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Change of positioning and acoustic image with 5.1-channel systems



Movement of acoustic image from SR to SL

Change of positioning and acoustic image with 6.1-channel systems



Movement of acoustic image from SR to SB to SL

In addition to sources recorded in 6.1-channels, the surround effect of conventional 2- to 5 1-channel sources can also be enhanced

Number of surround back speakers

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

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

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

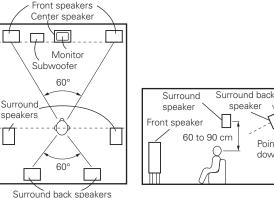
Examples of speaker layouts

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

[1] Using surround back speaker(s)

(1) When mainly playing movies

Recommended when your surround speakers are single or 2-way speakers.



[As seen from above]

[As seen from the side]

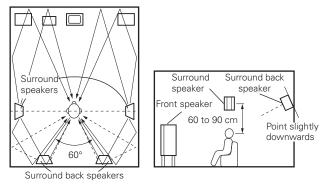
Point slightly

downwards

(2) Setting for primarily watching movies using diffusion type speakers for the surround speakers

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

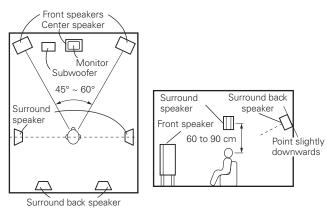
Path of the surround sound from the speakers to the listening position



[As seen from above]

[As seen from the side]

③ When playing movies and music



[As seen from above]

[As seen from the side]

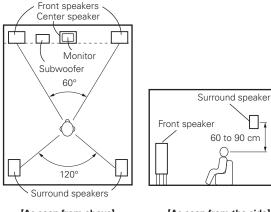
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[2] When not using surround back speakers



[As seen from above]

[As seen from the side]

Surround

The AVR-1908 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Dolby Surround

Dolby Digital

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

A total of 5.1-channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A real, overpowering sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Pro Logic II

Dolby Pro Logic ${\rm I\!I}$ is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect.

The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

Dolby Pro Logic IIx

Dolby Pro Logic $I\!Ix$ is a further improved version of the Dolby Pro Logic $I\!I$ matrix decoding technology.

Audio signals recorded in 2-channels are decoded to achieve a natural sound with up to 7.1-channels.

There are 3 modes: "Music" suited for playing music, "Cinema" suited for playing movies, and "Game" which is optimized for playing games.

※ Sources recorded in Dolby Surround

Sources recorded in Dolby Surround are indicated with the following logo marks.

Dolby Surround support mark : DO DOLBY SURROUND

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

DTS Surround

DTS Digital Surround

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

DTS-ES[™] Discrete 6.1

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

DTS-ES[™] Matrix 6.1

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

DTS NEO:6[™] Surround

DTS NEO:6[™] is a matrix decoding technology for achieving 6.1channel surround playback with 2-channel sources. It includes "DTS NEO:6 CINEMA" suited for playing movies and "DTS NEO:6 MUSIC" suited for playing music.

DTS 96/24

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

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,003,467 & other U.S. and worldwide patents issued & pending. DTS, DTS Digital Surround, ES, and Neo:6 are registered trademarks and the DTS logos, Symbol and DTS 96/24 are trademarks of DTS, Inc.[©] 1996-2007 DTS, Inc. All Rights Reserved.

Audyssey MultEQ®

Audyssey MultEQ® is the first technology to properly measure sound information throughout a listening area, then combine this information to accurately represent the acoustical problems in the room. Based on these measurements, MultEQ calculates an equalization solution that corrects for both time and frequency response problems in every seat. Audyssey MultEQ not only corrects frequency response problems in a large listening area but also performs a fully automated surround system setup.

For a detailed description, see page 21.

Audyssey MultEQ[®] is a trademark of Audyssey Laboratories. It is licensed under U.S. and National Patent Applications 20030235318 and 10/700,220. Additional U.S. and Foreign Patents pending. MultEQ and the Audyssey MultEQ logo are trademarks of Audyssey Laboratories, Inc. All rights reserved.

HDMI (High-Definition Multimedia Interface)

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

Non-compressed digital video and multi-channel audio signals are transmitted with a single connection.

HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same was as with DVI.

Deep Color

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

Enables increased contrast ratio.

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

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

xvYCC

Next-generation "xvYCC" color space supports 1.8 times as many colors as existing HDTV signals. Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

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

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Surround Modes and Parameters

						S	ignals and adjus	stability in the	different mode	es					
Surround mode			Channel output						Parameter	default values	are shown in p	arentheses)			
Surround mode	Front L/R	Center	Surround L/R	Surround Back L/R	Subwoofer	D. COMP *1	LFE *2	AFDM *1	SB CH OUT	CINEMA EQ.	MODE	ROOM SIZE	LEVEL	DELAY TIME	Subwoofer
PURE DIRECT, DIRECT	0	Х	×	×	0	O (OFF)	○ (0 dB)	Х	×	×	×	×	×	×	0
MULTI CH DIRECT	0	\bigcirc	O	O	O	×	○ (0 dB)	(ON)	0	×	×	×	×	×	×
STEREO	0	×	×	×	0	(OFF)	○ (0 dB)	×	×	×	×	×	×	×	×
EXT. IN	0	\bigcirc	O	O	O	×	×	×	×	×	×	×	×	×	×
MULTI CH IN	0	\bigcirc	O	O	O	×	○ (0 dB)	(ON)	0	×	×	×	×	×	×
DOLBY PRO LOGIC IIx	0	\bigcirc	O	O	O	(OFF)	×	×	0	○ (NOTE1)	○ (CINEMA)	×	×	×	×
DOLBY PRO LOGIC II	0	\bigcirc	O	×	O	\bigcirc (OFF)	×	×	0	O (NOTE2)	○ (CINEMA)	×	×	×	×
DTS NEO:6	0	\bigcirc	O	O	O	(OFF)	×	×	0	O (NOTE1)	○ (CINEMA)	×	×	×	Х
DOLBY DIGITAL	0	\bigcirc	O	O	\bigcirc	(OFF)	○ (0 dB)	(ON)	0	O (OFF)	×	×	×	×	×
DTS SURROUND	0	\bigcirc	O	O	O	O (OFF)	○ (0 dB)	(ON)	0	O (OFF)	×	×	×	×	Х
7CH STEREO	0	0	O	O	0	(OFF)	○ (0 dB)	×	0	×	×	×	×	×	×
ROCK ARENA	0	\bigcirc	O	O	O	(OFF)	○ (0 dB)	×	0	×	×	\bigcirc (medium)	(10)	×	Х
JAZZ CLUB	0	0	O	0	0	(OFF)	○ (0 dB)	×	0	×	×	\bigcirc (medium)	(10)	×	×
MONO MOVIE	0	\bigcirc	O	O	O	O (OFF)	○ (0 dB)	×	0	×	×	\bigcirc (medium)	(10)	×	Х
VIDEO GAME	0	0	0	O	0	(OFF)	○ (0 dB)	×	0	×	×	\bigcirc (medium)	(10)	×	×
MATRIX	0	\bigcirc	O	O	O	O (OFF)	○ (0 dB)	×	0	×	×	×	×	(30 ms)	×
VIRTUAL	0	×	×	×	0	O (OFF)	○ (0 dB)	×	×	×	×	×	×	×	×

○: Signal / Adjustable

 \times : No signal / Not adjustable

◎ : Turned on or off by speaker configuration setting

NOTE1 : This parameter is availabe when the menu "Parameter" – "Surround Parameter" – "MODE" is set to "CINEMA" (🖅 page 35).

NOTE2 : This parameter is availabe when the menu "Parameter" – "Surround Parameter" – "MODE" is set to "CINEMA" or "PL" (12) page 35).

NOTE:

*1 : When playing Dolby Digital and DTS signals.

*2: When playing Dolby Digital, DTS and DVD-Audio.

				Signals and adj	ustability in the o	different modes			
			F	Parameter (default	values are show	vn in parenthese	s)		
Surround mode	PRO LOGI	IC II/IIx MUSIC 1	mode only	NEO:6 MUSIC mode only	EXT. IN only	Tana Cantral		David FO	RESTORE
	PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE	SW ATT	Tone Control	Night Mode	Room EQ	RESIORER
PURE DIRECT, DIRECT	×	×	×	×	×	×	O (OFF)	O (NOTE4)	0
MULTI CH DIRECT	×	×	×	×	×	×	O (OFF)	O (NOTE4)	×
STEREO	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
EXT. IN	×	×	×	×	0	×	×	×	×
MULTI CH IN	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	×
DOLBY PRO LOGIC IIx	O (OFF)	(3)	(3)	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
DOLBY PRO LOGIC II	O (OFF)	(3)	(3)	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
DTS NEO:6	×	×	×	(0.3)	×	○ (0 dB)	O (OFF)	O (OFF)	0
DOLBY DIGITAL	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	×
DTS SURROUND	×	×	×	×	×	○ (0 dB)	O (NOTE5)	O (OFF)	×
7CH STEREO	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
ROCK ARENA	×	×	×	×	×	O (NOTE3)	O (OFF)	O (OFF)	0
JAZZ CLUB	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
MONO MOVIE	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	0
VIDEO GAME	×	×	×	×	×	○ (0 dB)	O (OFF)	O (OFF)	0
MATRIX	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	0
VIRTUAL	×	×	×	×	×	(0 dB)	O (OFF)	O (OFF)	0

| ○ : Adjustable

 \times : Not adjustable

NOTE3 : BASS +6 dB, TREBLE +4 dB

NOTE4 : Can be used according to the "Direct Mode Setup" setting. NOTE5 : This parameter is invalid during input of the DTS96/24 signal.

Getting Started Connections Setup Playback Remote Control AmpAssign Information Troubleshooting

Differences in Surround Mode Names Depending on the Input Signals

Button	i.							Input signals						
	1				D	DTS]	DOLBY DIGITA	L		DVD-	AUDIO
Surround mode	Note	ANALOG	LINEAR PCM	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 (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)
NDARD								,						
DTS_SURROUND		4		4		4		/ /	('	/ /				
DTS ES DSCRT6.1	* 1	×	\times		×	\times	×	×	×	×	\times	×	×	×
DTS ES MTRX6.1	*1	×	×	×		×	×	×	×	×	×	×	×	×
DTS SURROUND	1	×	×	0	0	•	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×		×	×	×	×	×	×	×
DTS + PLIIx CINEMA	*2	×	×	0	0	0	0	×	×	×	×	×	×	×
DTS + PLIIx MUSIC	*1	×	×	0	0	0	0	×	×	×	×	×	×	×
DTS + NEO:6	* 1	×	×	×	0	0	0	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0
DTS NEO:6 MUSIC	1	0	0	×	×	×	×	×	×	×	×	0	×	0
DOLBY SURROUND								/						
DOLBY DIGITAL EX	*1	×	×	×	×	\times	×	0	0	0	0	×	×	×
DOLBY DIGITAL		×	×	×	×	×	×	0	•	•	•	×	×	×
DOLBY DIGITAL + PLIIx CINEMA	*2	×	×	×	×	×	×		0	0	0	×	×	×
DOLBY DIGITAL + PLIIx MUSIC	*1	×	×	×	×	×	×	0	0	0	0	×	×	×
DOLBY PRO LOGIC IIx CINEMA	1	0	0	×	×	\times	×	×	×	×	×		×	0
DOLBY PRO LOGIC IIx MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0
DOLBY PRO LOGIC IIx GAME	1	0	0	×	×	\times	×	×	×	×	×	0	×	0
DOLBY PRO LOGIC II CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0
DOLBY PRO LOGIC II MUSIC	1	0	0	×	×	\times	×	×	×	×	×	0	×	0
DOLBY PRO LOGIC II GAME		0	0	×	×	×	×	×	×	×	×	0	×	0
DOLBY PRO LOGIC	1	0	0	×	×	×	×	×	×	×	×	0	×	0
MULTI CH IN								/ /						
MULTI CH IN	1	×	×	×	×	\times	×	×	×	×	×	×	•	×
MULTI IN + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	0	×
MULTI IN + PLIIX MUSIC	* 1	×	×	×	×	×	×	×	×	×	×	×	0	×
MULTI CH IN 7.1		×	×	×	×	×	×	×	×	×	×	×	0	×

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".

• : Mode selectable in initial status

◎ : Mode fixed when "AFDM" is "ON"

○: Selectable mode

 \times : Non-selectable mode

Button								Input signals						
					D	TS			C	OLBY DIGITA	L		DVD-/	AUDIO
Surround mode	Note	ANALOG	LINEAR PCM	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 (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audic (2ch)
DIRECT														
DIRECT		0	0	0	0	0	0	0	0	0	0	0	×	0
MULTI CH DIRECT		×	×	×	×	×	×	×	×	\times	×	×	0	×
M DIRECT + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	0	×
M DIRECT + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	0	×
M DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	0	×
DSP SIMULATION														
7CH STEREO	*3	0	0	0	0	0	0	0	0	\bigcirc	0	0	0	0
ROCK ARENA		0	0	0	0	0	0	0	0	\bigcirc	0	0	0	0
JAZZ CLUB		0	0	0	0	0	0	0	0	0	0	0	0	0
MONO MOVIE		0	0	0	0	0	0	0	0	\bigcirc	0	0	0	0
VIDEO GAME		0	0	0	0	0	0	0	0	0	0	0	0	0
MATRIX		0	0	0	0	0	0	0	0	\bigcirc	0	0	0	0
VIRTUAL		0	0	0	0	0	0	0	0	0	0	0	0	0
STEREO														
STEREO		•	•	0	0	0	0	0	0	0	0	0	0	•

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.

• : Mode selectable in initial status

○ : Selectable mode

X: Non-selectable mode

Relationship Between Video Signals and Monitor Output

		Input signals				MONITO	OR OUT	-
Video convert	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
	×	×	×	×	X	×	×	×
	×	×	×	0	VIDEO	X	×	VIDEO
	×	×	0	×	S-VIDEO	×	S-VIDEO	S-VIDEO
-	×	×	0	0	S-VIDEO	X	S-VIDEO	S-VIDEO
	×	(1080p)	×	×	X	COMPONENT	×	X
-	×	○ (480i ~ 720p)	×	×	COMPONENT	COMPONENT	×	X
-	×	(1080p)	×	0	VIDEO	COMPONENT	×	VIDEO
	×	(480i ~ 720p)	×	0	COMPONENT	COMPONENT	×	VIDEO
-	×	(1080p)	0	×	S-VIDEO	COMPONENT	S-VIDEO	S-VIDEO
ON	×	(480i ~ 720p)	0	×	COMPONENT	COMPONENT	S-VIDEO	S-VIDEO
UN	×	(1080p)	0	0	S-VIDEO	COMPONENT	S-VIDEO	S-VIDEO
	×	(480i ~ 720p)	0	0	COMPONENT	COMPONENT	S-VIDEO	S-VIDEO
-	0	×	×	×	HDMI	X	×	X
	0	×	×	0	HDMI*1	X	×	VIDEO
	0	×	0	×	HDMI*2	X	S-VIDEO	S-VIDEO
	0	×	0	0	HDMI*2	X	S-VIDEO	S-VIDEO
	0	0	×	×	HDMI	COMPONENT	×	X
	0	0	×	0	HDMI*1	COMPONENT	×	VIDEO
-	0	Ô	0	×	HDMI*2	COMPONENT	S-VIDEO	S-VIDEO
	0	0	0	0	HDMI*2	COMPONENT	S-VIDEO	S-VIDEO

 $|\bigcirc$: Signal input

× : No signal

480i ~ 720p: 480i / 576i / 480p / 576p / 1080i / 720p

× : Not output

*1 : On-screen display superimposed on video signal and output.

*2 : On-screen display superimposed on S-Video signal and output.

COMPONENT:

The on-screen display signals are not outputted from the COMPONENT MONITOR OUT.

HDMI:

On-screen display only displayed for **MENU** button and the remote control unit's **DISPLAY** button.

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.

VCd	S-VIDEO		Input sig	nals			MONITO	OR OUT	
Video convert	MONITOR OUT	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
	_	×	×	×	\times	×	X	×	×
	_	×	×	×	0	×	X	×	VIDEO
	_	\times	×	0	×	×	X	S-VIDEO	×
	Used	×	×	0	0	×	X	S-VIDEO	VIDEO*2
	Not used	×	×	0	0	×	X	—	VIDEO
	_	×	0	×	×	×	COMPONENT	×	×
	_	×	0	×	0	×	COMPONENT	×	VIDEO
	_	×	0	0	×	×	COMPONENT	S-VIDEO	X
	Used	×	0	0	0	×	COMPONENT	S-VIDEO	VIDEO*2
OFF	Not used	×	0	0	0	×	COMPONENT	—	VIDEO
UFF	_	0	×	×	×	HDMI	X	×	×
	_	0	×	×	0	HDMI*1	×	×	VIDEO
	_	0	×	0	×	HDMI*2	X	S-VIDEO	×
	Used	0	×	0	0	HDMI*2	X	S-VIDEO	VIDEO*2
	Not used	0	×	0	0	HDMI*1	X	—	VIDEO
	_	0	0	×	×	HDMI	COMPONENT	×	X
	_	0	0	×	0	HDMI*1	COMPONENT	×	VIDEO
	_	Ó	0	0	×	HDMI*2	COMPONENT	S-VIDEO	×
	Used	0	0	0	0	HDMI*2	COMPONENT	S-VIDEO	VIDEO*2
	Not used	Ó	0	0	Ó	HDMI*1	COMPONENT	—	VIDEO

○ : Signal input× : No signal

× ∶ Not output

*1 : On-screen display superimposed on video signal and output. *2 : On-screen display superimposed on S-Video signal and output.

COMPONENT:

The on-screen display signals are not outputted from the COMPONENT MONITOR OUT.

HDMI:

On-screen display only displayed for **MENU** button and the remote control unit's **DISPLAY** button.

Getting Started Connections Setup Playback

Troubleshooting

If a problem should arise, first check the following:

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

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

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

[General]

Symptom	Cause	Countermeasure	Page
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	Check the insertion of the power cord plug.	17
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty.	Check the connections.	9
	• Device you want to play and set input source do not match.	• Select an appropriate input source.	40
	• Master volume is turned too low.	 Adjust the master volume to an appropriate level. 	40
	• Mute mode is set.	 Cancel the mute mode. 	40
	 Headphones are connected. 	 Disconnect the headphones. 	40
	• No digital signals are being input.	 Select an input source for which the digital input setting has been made. 	31
	• The connectors to which the digital inputs are assigned and the settable input modes do not match.	• Set the input mode.	31
Display is off.	• The "Dimmer" setting is set to "OFF".	 Set to something other than "OFF". 	29
	• The PURE DIRECT mode is set.	 Set a surround mode other than the PURE DIRECT mode. 	34
"DOLBY DIGITAL" indicator does not appear on display.	 DVD player's digital audio output setting is not proper. 	• Check the DVD player's audio output setting. For details, read the DVD player's operating instructions.	-

Symptom	Cause	Countermeasure	Page
Power turns off suddenly and	• Protection circuit activated due to rise of internal temperature.	• Turn off the power, wait for the set to fully cool down, then turn	10
power indicator		the power back on.	
flashes red.		• Place the set in a well-ventilated place.	10
	 Core wires of two speakers are touching each other or a core wire is sticking out of the terminal and touching the set's rear panel, activating the protection circuit. 	• First unplug the power cord, then twist the core wires tightly or terminate the speaker cables, then reconnect.	10
	 Speakers with an impedance other than specified are being used. 	• Use speakers with the specified impedance.	10
	• Set is damaged.	• Turn off the power and contact a DENON service center.	_

[Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work	• Batteries are worn.	• Replace with new batteries.	3
properly when remote control	• You are operating outside of the specified range.	• Operate within the specified range.	3
unit operated.	• Obstacle between main unit and remote control unit.	• Remove the obstacle.	3
	 The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment. 	proper direction, following the	3
	 The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). 	• Move the set to a place in which the remote control sensor will	3
	• The remote ID of the main unit and remote control unit do not match.		29

[Audio]

Symptom	Cause	Countermeasure	Pag
No sound is produced from center speaker.	 You are playing a monaural source (TV, AM radio broadcast, etc.) in the STANDARD (Dolby/ DTS Surround) mode. 	• The mode is set to something other than "STANDARD (Dolby/ DTS Surround)".	33
No sound is produced from surround speakers.	• The surround mode is set to "STEREO", "DIRECT" or "PURE DIRECT".	 Set to a surround playback mode. 	34
No sound is produced from surround back	• The surround back speaker's power amplifier is assigned to a different channel.	• Check the setting and change it as necessary.	28
speaker.	• Surround back speaker setting is set to "None".	• Set to something other than "None".	24
	• Surround mode not set to a mode for 6.1- or 7.1-channel playback.	Select a surround playback mode.	33
No sound is produced from	• Subwoofer's power not turned on.	• Turn on the subwoofer's power.	-
subwoofer.	• The "Subwoofer" setting at "Speaker Configuration" is set to "No".	• Set to "Yes".	24
	• The subwoofer is not properly connected.		9
	• The subwoofer's volume is turned off.	• Adjust the subwoofer's volume to an appropriate level.	46
No test tones are produced when remote control unit's TEST button is pressed.	• Surround mode not set to "STANDARD (Dolby/DTS Surround)".	Set to the STANDARD (Dolby/ DTS Surround) mode.	33
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream.	• Set the DVD player. For details, refer to the DVD player's operating instructions.	-
	• DVD player is not compatible with DTS sound playback.	• Use a DTS-compatible player.	-
	• The AVR-1908's "Decode Mode" setting is set to "PCM".	• Set to the "Auto" or "DTS" mode.	31
HDMI audio signals are not output from speakers.	 The "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" setting is set to "TV". 	• Set to "AMP".	26

Symptom	Cause	Countermeasure	Page
No sound is output from the monitor connected with HDMI connections.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" setting is set to "AMP".		26

[Video]

Symptom	Cause	Countermeasure	Page
No picture appears.	• The connections between the AVR-1908 and monitor are faulty.	Check the connections.	11 ~ 17
	• The monitor's input setting is wrong.	• Set properly.	-
	 PURE DIRECT mode is set. The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors. 	 Cancel the PURE DIRECT mode. High definition (1080i/720p) and progressive (480p/576p) video signals are not down-converted. Set the player to interlace (480i/576i) signals. 	34 _
No picture appears	• The connections to the HDMI connectors are faulty.	Check the connections.	11
with HDMI	• HDMI input setting is improper.	• Check the HDMI input setting.	31
connections.	• The monitor is not compatible with copyright protection (HDCP).	• Connect a monitor that is compatible with copyright protection (HDCP).	11
	• The HDMI format of the player and monitor do not match.	 Match the HDMI format of the player and monitor. 	11
Picture cannot be recorded.	 Input source does not match recorder's video connection connector (video or S-Video). 	• The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.	14
DVDs cannot be copied on a VCR.	-	 This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied. 	-

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.		• Switch to the input source assigned at "iPod dock".	32
	• Cable is not properly connected.	Reconnect.	13
		• Plug the Control Dock for iPod's AC adapter into a power outlet.	-

Getting Started Connections Setup Playback Remote Control AmpAssign Information Troubleshooting

Specifications

Audio section		Tuner section	[FM]	[AM]
 Power amplifier Rated output: 	Front (A, B):	Receiving Range:	(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10 ⁻¹⁵ W) 87.5 MHz ~ 108.0 MHz	522 kHz ~ 1611 kHz
nated output.	90 W + 90 W (8 Ω /ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	Usable Sensitivity:	1.0 μV (11.2 dBf)	18 μV
	$120 \text{ W} + 120 \text{ W}$ (6 Ω /ohms, 1 kHz with 0.7 % T.H.D.)	50 dB Quieting Sensitivity:	MONO 1.6 μV (15.3 dBf)	τομν
	Center:	So an Quieting Sensitivity.	STEREO 23 µV (38.5 dBf)	
	90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	S/N (IHF-A):	MONO 77 dB (IHF-A weighted)	
	120 W (6 Ω /ohms, 1 kHz with 0.7 % T.H.D.)		STEREO 72 dB (IHF-A weighted)	
	Surround:	Total harmonic Distortion (at 1 kHz):	MONO 0.15 %	
	90 W + 90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	···· · · · · · · · · · · · · · · · · ·	STEREO 0.3 %	
	120 W + 120 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)			
	Surround Back:	General General		
	90 W + 90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	Power supply:	AC 230 V, 50 Hz	
	120 W + 120 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	Power consumption:	440 W	
Output terminals:	Front: A or B $6 \sim 16 \Omega/ohms$		0.3 W (Standby)	
	A + B 12 ~ 16 Ω/ohms	Maximum external dimensions:	434 (W) x 171 (H) x 383 (D) mm	
	Center, Surround, Surr. Back: $6 \sim 16 \Omega/ohms$	Weight:	11.4 kg	
 Analog 		🖵 Remote control unit (RC-1078		
Input sensitivity / Input impedance:	200 mV / 47 kΩ/kohms	Batteries:	R6P/AA Type (two batteries)	
Frequency response:	10 Hz ~ 100 kHz — +1, -3 dB (DIRECT mode)	Maximum external dimensions:	$52 (W) \times 243 (H) \times 21 (D) mm$	
S/N:	98 dB (IHF-A weighted, DIRECT mode)	Weight:	184 g (including batteries)	
Distortion:	0.008 % (20 Hz ~ 20 kHz) (DIRECT mode)	Weight.	104 g (including batteries)	
Video section		* For purposes of improvement, specificat	ions and design are subject to change without not	ice.
 Standard video terminals 				
Input / output level and impedance:	1 Vp-p, 75 Ω/ohms			
Frequency response:	5 Hz ~ 10 MHz — +1, –3 dB (when video convert set to "OFF")			
S-Video terminals				
Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms			
_	C (color) signal — 0.3 (PAL) / 0.286 (NTSC) Vp-p, 75 Ω/ohms			
Frequency response:	5 Hz \sim 10 MHz — +1, –3 dB (when video convert set to "OFF")			
Color component video terminal	V (brighterser) signal (1)/s s 75 O/share			
Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms			
	PB / CB signal — 0.7 Vp-p, 75 Ω/ohms			

Frequency response:

Pr / Cr signal — 0.7 Vp-p, 75 Ω /ohms 5 Hz ~ 100 MHz — +0, –3 dB (when video convert set to "OFF")

List of preset codes / Liste von voreingestellten Codes / Liste de codes préréglés / Lista dei codici pre-regolati / Lista de códigos pre-ajustados / Lijst van vooringestelde codes / Förteckning över förinställda koder

D	VD Player	
Α	Aiwa	009
D	Denon	014, [111]*
Н	Hitachi	010
J	JVC	006, 011
Κ	Konka	012, 013
Μ	Magnavox	005
	Mitsubishi	004
Ρ	Panasonic	014
	Philips	005, 015, 016, 017
	Pioneer	003, 008
S	Sanyo	018
	Sony	002, 019, 020
Т	Toshiba	001, 021, 022
Ζ	Zenith	023

VDP

D	Denon	028, 029, 112
Μ	Magnavox	026
	Mitsubishi	028
Ρ	Panasonic	029, 030
	Philips	026
	Pioneer	028, 031
R	RCA	032
S	Sony	033 034 035 036

VCR

	••••	
Α	Admiral	081
	Aiko	095
	Aiwa	009
	Akai	026, 027, 070, 072, 082, 083, 084
	Alba	055
	Amstrad	009
	ASA	042
	Asha	087
	Audio Dynamic	005, 085
	Audiovox	088
	Beaumark	087
	Broksonic	086, 093
С	Calix	088
	Candle	006, 087, 088, 089, 090
	Canon	049, 057
	Capehart	025, 055, 056, 071
	Carver	015
	CCE	095
	Citizen	006, 007, 087, 088, 089, 090, 095

	Craig	007, 087, 088, 091, 115		Ν
	Curtis Mathes	006, 049, 073, 080, 087, 090, 092		Ν
	Cybernex	087		Ν
D	Daewoo	025, 055, 059, 074, 089, 093, 095, 096	Ν	Ν
	Daytron	025, 055		Ν
	DBX	005, 085		Ν
	Dumont	053		Ν
	Dynatech	009	0	С
E	Electrohome	001, 088, 097		C
	Electrophonic	088	Ρ	Ρ
	Emerson	001, 009, 017, 027, 086, 088, 089, 092, 093, 097, 100, 101, 102, 103, 104, 117		P
F	Flsher	009, 028, 031, 053, 054, 091,		P
G	GE	099, 115 007, 011, 049, 050, 051, 052,		P
U		073, 080, 087		P
	Go Video Goldstar	047,048		Ρ
	Gradiente	000, 006, 012, 062, 088 094		Р
	Grundig	042		P
н	Harley Davidson	094		Р
· ''	Harman Kardon	040, 062	0	C
	Hi-O	091	_	C
	Hitachi	009, 013, 023, 026, 058, [108] *, 109, 110, 111	R	R
J	JC Penny	004, 005, 007, 023, 028, 049, 062, 085, 087, 088		R
	Jensen	013, 026		R
	JVC	004, 005, 006, 026, 029, 043,		R
		044, 045, 046, 085 004, 005, 006, 026, 029, 033,		R
K	Kenwood	045, 085, 090		
	Kodak	088		R
L	Lloyd	009, 094	S	S
1	LXI	088		S
M	•	015, 016, 042, 049, 063, 106		S
	Magnin	087		S
	Marantz	004, 005, 006, 015, 042, 049, 085, 090		0
	Marta	088		S
	MEI	049		S
	Memorex	009, 033, 049, 053, 060, 081, 087, 088, 091, 094, 115		S
	Metz	123, 124, 125, 126, 127, 128		S
	MGA	001, 017, 027, 041, 097		S
	MGN Technology	087		S
	Midland	011		S
	Minolta	013, 023		S
	Mitsubishi	001, 003, 008, 013, 014, 017, 027, 029, 039, 040, 041, 045, 097		S
	Motorola	081		S
				0

Montgomery Ward	001, 002, 007, 009, 049, 063, 081, 115, 117
MTC	009, 087, 094
Multitech	007, 009, 011, 087, 090, 094
NAD	038
NEC	004, 005, 006, 018, 026, 029, 045, 061, 062, 085
Nikko	088
Noblex	087
Optimus	081, 088
Optonica	021
Panasonic	024, 049, 064, 066, 067, 068, 069, 107
Perdio	009
Pentax	009, 013, 023, 058, 090
Philco	015, 016, 049
Philips	015, 021, 042, 049, 105 088
Pilot Pioneer	005, 013, 029, 036, 037, 038,
Portland	045,085
Proscan	025, 055, 090 063, 080
Pulsar	060
Quartz	033
Quasar	034, 035, 049
	001, 002, 021, 081, 087, 088,
Radio Shack	091, 094, 097, 098, 115
Radix	088
Randex	088
RCA	007, 013, 019, 023, 058, 063, 064, 065, 073, 080, 082, 087
Realistic	009, 021, 031, 033, 049, 053, 081, 087, 088, 091, 094, 097, 098
Ricoh	055
Salora	033, 041
Samsung	007, 011, 051, 059, 070, 083, 087, 089, 113
Sanky	081
Sansui	005, 026, 029, 045, 061, 085, 114
Sanyo	032, 033, 053, 087, 091, 115, 116
SBR	042
Scott	017, 020, 086, 089, 093, 117
Sears	013, 023, 028, 031, 033, 053 054, 088, 091, 098, 099, 115
Sentra	055
Sharp	001, 002, 021, 097
Shogun	087
Sony	075, 076, 077, 078, 079, 121, 122
STS	023
Sylvania	009, 015, 016, 017, 041, 049, 094
Symphonic	009, 094

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: Vooringestelde codes bij hey verlaten van de fabriek.

: Förinställda koder har ställts in vid transporten från fabriken.



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