

DENON

AV SURROUND RECEIVER

AVR-1909

Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur


Manuale delle istruzioni

Manual del usuario

Gebruiksaanwijzing

Bruksanvisning


SAFETY PRECAUTIONS



CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN



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

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

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

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

DECLARATION OF CONFORMITY

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

ÜBEREINSTIMMUNGSERKLÄRUNG

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

DECLARATION DE CONFORMITE

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

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.

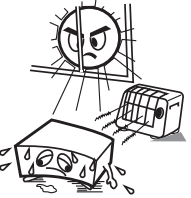

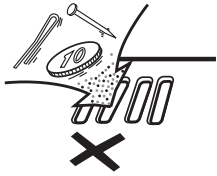

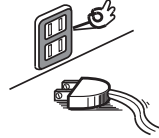

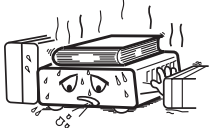
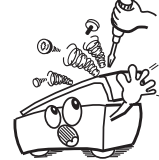
De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIGHETSMÅTT:

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 / ALVORENSTE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN

 <ul style="list-style-type: none"> • Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Evitate di esporre l'unità a temperature elevate. Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. • Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. • Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. • Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. 	 <ul style="list-style-type: none"> • Keep the unit free from moisture, water, and dust. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. • Mantenga el equipo libre de humedad, agua y polvo. • Laat geen vochtigheid, water of stof in het apparaat binnendringen. • Utsätt inte apparaten för fukt, vatten och damm. 	 <ul style="list-style-type: none"> • Do not let foreign objects into the unit. • Lassen Sie keine fremden Gegenstände in das Gerät kommen. • Ne pas laisser des objets étrangers dans l'appareil. • Non inserite corpi estranei all'interno dell'unità. • No deje objetos extraños dentro del equipo. • Laat geen vreemde voorwerpen in dit apparaat vallen. • Se till att främmande föremål inte tränger in i apparaten. 	<p>CAUTION:</p> <ul style="list-style-type: none"> • The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. • No naked flame sources, such as lighted candles, should be placed on the unit. • Observe and follow local regulations regarding battery disposal. • Do not expose the unit to dripping or splashing fluids. • Do not place objects filled with liquids, such as vases, on the unit. <p>ACHTUNG:</p> <ul style="list-style-type: none"> • Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. • Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. • Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. • Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. • Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.
 <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneggiare il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Hantera nätkablen varsamt. Håll i kablenn när den kopplas från el-uttaget. 	 <ul style="list-style-type: none"> • Unplug the power cord when not using the unit for long periods of time. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • Koppla loss nätkablen om apparaten inte kommer att användas i lång tid. 	 <ul style="list-style-type: none"> • Do not let insecticides, benzene, and thinner come in contact with the unit. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Voorkom dat insecticiden, benzeen of verfverdunder met dit toestel in contact komen. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje. 	<p>ATTENTION:</p> <ul style="list-style-type: none"> • La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc. • Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. • Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. • L'appareil ne doit pas être exposé à l'eau ou à l'humidité. • Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. <p>ATTENZIONE:</p> <ul style="list-style-type: none"> • Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. • Non posizionate sull'unità fiamme libere, come ad esempio candele accese. • Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie. • L'apparecchiatura non deve essere esposta a gocciolii o spruzzi. • Non posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi. <p>PRECAUCIÓN:</p> <ul style="list-style-type: none"> • La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc. • No debe colocarse sobre el aparato objetos inflamables sin protección, como velas encendidas. • A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. • No exponer el aparato al goteo o salpicaduras cuando se utilice. • No colocar sobre el aparato objetos llenos de líquido, como jarras.
	 <p>* (For apparatuses with ventilation holes)</p> <ul style="list-style-type: none"> • Do not obstruct the ventilation holes. • Decken Sie den Lüftungsbereich nicht ab. • Ne pas obstruer les trous d'aération. • Non coprire i fori di ventilazione. • No obstruya los orificios de ventilación. • De ventilatieopeningen mogen niet worden geblokkeerd. • Täpp inte till ventilationsöppningarna. 	 <ul style="list-style-type: none"> • Never disassemble or modify the unit in any way. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Non smontare né modificare l'unità in alcun modo. • Nunca desarme o modifique el equipo de ninguna manera. • Dit toestel mag niet gedemonteerd of aangepast worden. • Ta inte isär apparaten och försök inte bygga om den. 	<p>WAARSCHUWING:</p> <ul style="list-style-type: none"> • De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te decken met bijvoorbeeld kranten, een tafelkleed, gordijnen, enz. • Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. • Houd u steeds aan de milieuvorschriften wanneer u gebruikte batterijen wegdoet. • Stel het apparaat niet bloot aan druppels of spatten. • Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. <p>OBSERVERA:</p> <ul style="list-style-type: none"> • Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv. • Inga blottade brandkällor, såsom tända ljus, får placeras på apparaten. • Tänk på miljöaspekterna när du bortskaffar batterier. • Apparaten får inte utsättas för vätska. • Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten.

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.



Pb

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Getting Started

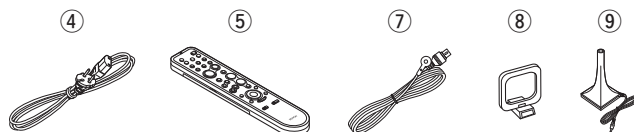
Thank you for purchasing this DENON product. To ensure proper operation, please read this owner's manual carefully before using the product.

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	1
② Getting Started	1
③ Service station list	1
④ Power cord (Cord length: Approx. 1.6 m)	1
⑤ Remote control (RC-1099)	1
⑥ R6/AA batteries	2
⑦ FM indoor antenna	1
⑧ AM loop antenna	1
⑨ Setup microphone (DM-A409, Cord length: Approx. 7.6 m)	1



Cautions on Handling

• Before turning the power switch on

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

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

• About condensation

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

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

• Cautions on using mobile phones

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

• Moving the unit

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

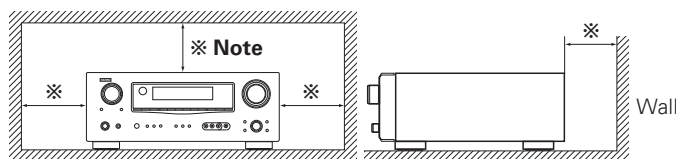
Next, disconnect the connection cables to other system units before moving the unit.

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

Cautions on Installation

Note:

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



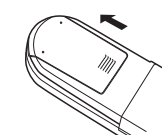
About the Remote Control Unit

In addition to the AVR-1909, the included remote control unit (RC-1099) can also be used to operate the equipment listed below.

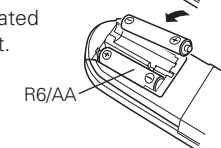
- ① DENON system components
- ② Non-DENON system components
 - By setting the preset memory (page 56 ~ 58)

Inserting the Batteries

- ① Lift the clasp and remove the rear cover.



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



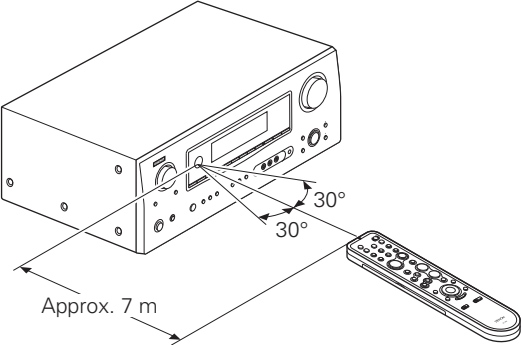
- ③ Put the rear cover back on.

NOTE

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

Operating Range of the Remote Control Unit

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



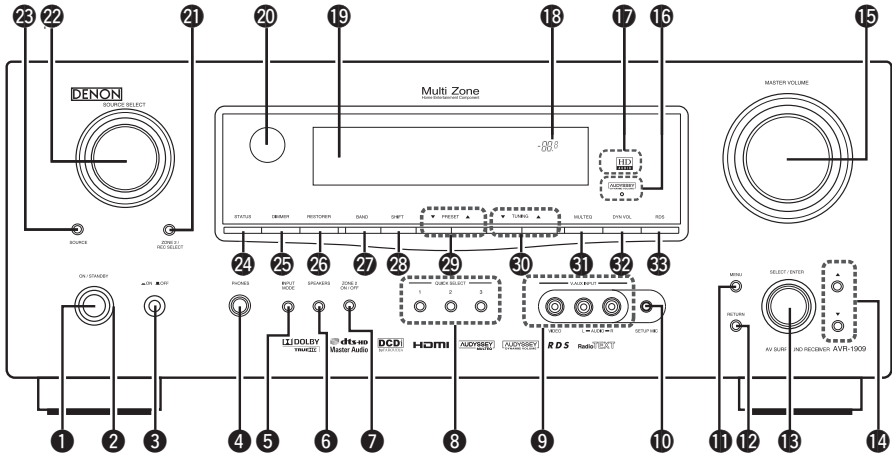
NOTE


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

Part Names and Functions

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

Front Panel



- 1 Power operation button (ON/STANDBY) (46)
- 2 Power indicator (46)
- 3 Power switch (ON/OFF) (46)
- 4 Headphones jack (PHONES) (46)
- 5 INPUT MODE button (15, 34)
- 6 SPEAKERS button (26, 46)
- 7 ZONE2 ON/OFF button (62)
- 8 QUICK SELECT buttons (55)
- 9 V. AUX INPUT connectors (14)
Remove the cap covering the terminals when you want to use them.
- 10 SETUP MIC jack (20)
- 11 MENU button (17)
- 12 RETURN button (17)
- 13 SELECT/ENTER knob (17)
• 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.

- 14 Cursor buttons (\triangle ∇) (17)
- 15 MASTER VOLUME control knob (46)
- 16 AUDYSSEY DYNAMIC VOLUME indicator (42)
- 17 HD AUDIO indicator (37)

- 18 Master volume indicator
- 19 Display (5)
- 20 Remote control sensor (4)
- 21 ZONE2/REC SELECT button (52, 62)
- 22 SOURCE SELECT knob (46)
- 23 SOURCE button (46)
- 24 STATUS button (44)
- 25 DIMMER button (31)
- 26 RESTORER button (43)
- 27 BAND button (47)
- 28 SHIFT button (47)
- 29 PRESET buttons (47)
- 30 TUNING buttons (47)
- 31 MULTEQ button (41)
- 32 DYNAMIC VOLUME button (42)

※ About Dynamic Volume

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

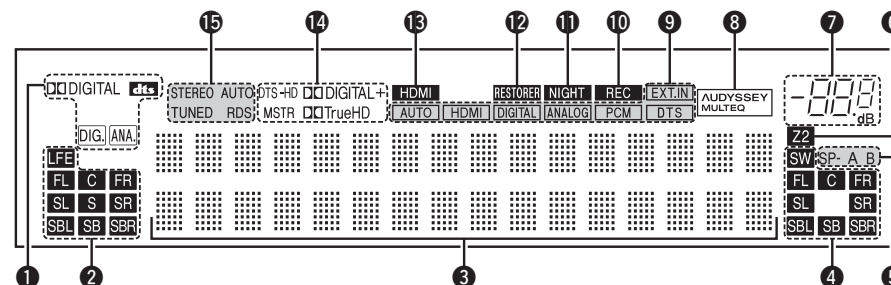
Audyssey Dynamic EQ™ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

※ About Dynamic EQ

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

- 33 RDS button (48, 49)

Display



1 Input signal indicators

2 Input signal channel indicators

These light when digital signals are input.

3 Information display

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

4 Output signal channel indicators

5 Front speaker indicator

These light according to the settings of the front A and B speakers.

6 ZONE2 output indicator

This lights when the power for the ZONE2 is turned on.

7 Master volume indicator

8 AUDYSSEY MULTEQ indicator

This lights when the MultEQ is selected.

9 Input mode indicators

10 Recording output source indicator

This lights when the REC OUT mode is selected.

11 NIGHT indicator

This lights when the night mode is selected.

12 RESTORER indicator

This lights when the RESTORER mode is selected.

13 HDMI indicator

This lights when playing using HDMI connections.

14 Decoder indicators

These light when the respective decoders are operating.

15 Tuner reception mode indicators

This lights according to the reception conditions when the input source is set to "TUNER".

• AUTO

This lights when in the auto tuning mode.

• STEREO

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

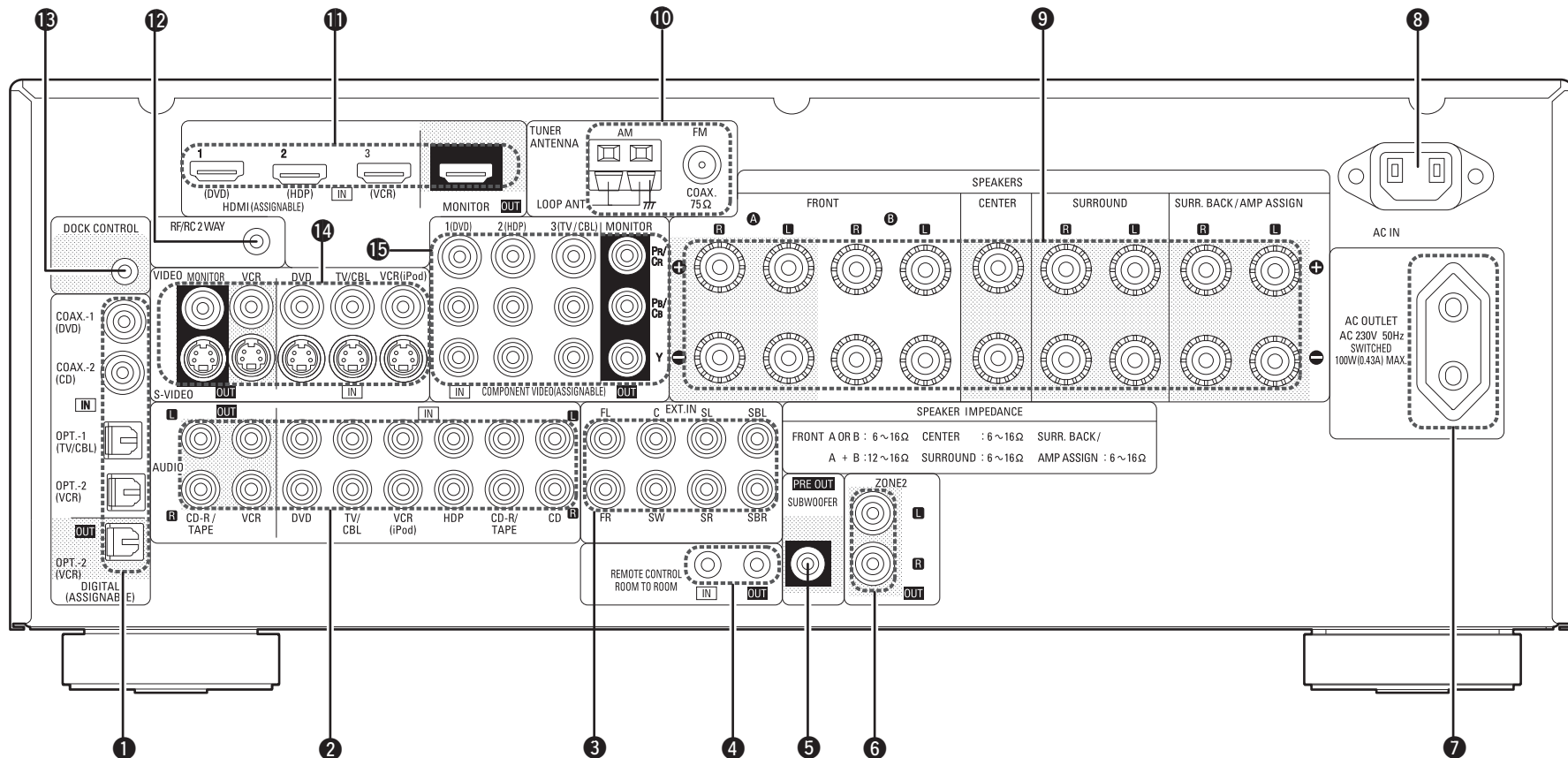
• TUNED

This lights when the broadcast is properly tuned in.

• RDS

This lights when receiving RDS broadcasts.

Rear Panel



- 1 Digital audio connectors (OPTICAL / COAXIAL) (12 ~ 14)

2 Analog audio connectors (AUDIO) (12 ~ 14)

3 EXT. IN connectors (15)

4 REMOTE CONTROL jacks (16)

5 PRE OUT connector (10)

6 ZONE2 connectors (16)
- 7 AC OUTLET (16)

8 AC inlet (AC IN) (16)

9 Speaker terminals (SPEAKERS) (10)

10 FM/AM antenna terminals (TUNER ANTENNA) (15)

11 HDMI connectors (11, 12, 14)

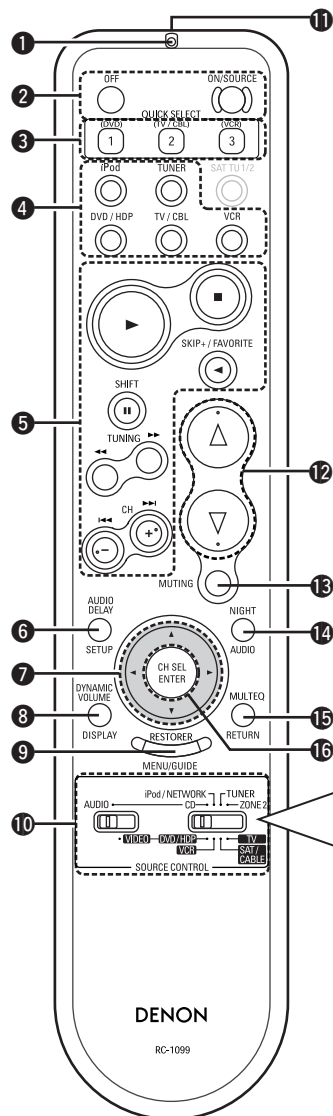
12 RF/RC 2WAY jack (16)
- 13 DOCK CONTROL jack (13)

14 VIDEO / S-VIDEO connectors (12 ~ 14)

15 COMPONENT VIDEO connectors (12, 13)

Remote Control Unit

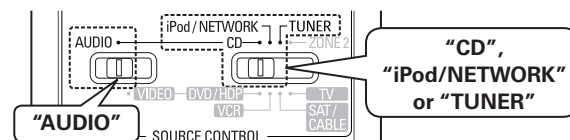
[Front]



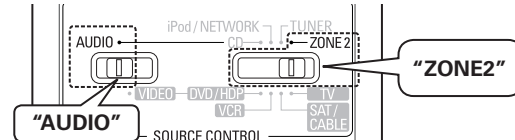
- 1 Indicator (56)
- 2 Power buttons (46)
- 3 QUICK SELECT buttons (46, 55)
- 4 Source select buttons (46)
- 5 System buttons (51)
- 6 AUDIO DELAY button (43)
- 7 Cursor buttons (Δ▽◁▷) (38)
- 8 DYNAMIC VOLUME button (42)
- 9 RESTORER button (43)
- 10 SOURCE CONTROL switches (17, 56)
- 11 Remote control signal transmitter (4)
- 12 Master volume control buttons (46)
- 13 MUTING button (46)
- 14 NIGHT button (43)
- 15 MULTEQ button (41)
- 16 Channel select (CH SEL) / ENTER button (38)

SOURCE CONTROL switch settings and operable buttons

□ When operating MAIN ZONE



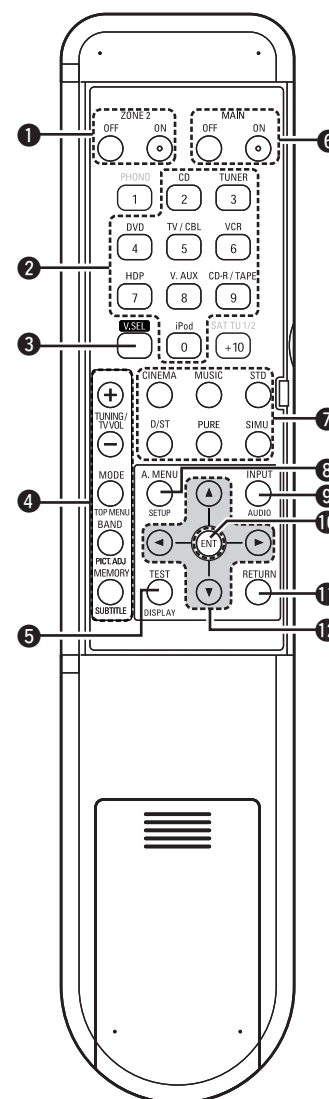
□ When operating ZONE2



NOTE

With this setting, only ZONE2 buttons can be operated. See page 62 for operable buttons.

[Rear]



- 1 ZONE2 power buttons (62)
- 2 Source select buttons (46)
- 3 Video select button (V.SEL) (33)
- 4 Tuner system buttons (47)
- 5 Test tone button (TEST) (25)
- 6 MAIN ZONE power buttons (MAIN) (62)
- 7 Surround mode buttons (37, 38)
- 8 Amp menu button (A. MENU) (17)
- 9 Input mode button (INPUT) (15, 34)
- 10 Enter button (ENT) (17, 38)
- 11 RETURN button (17)
- 12 Cursor buttons (Δ▽◁▷) (17)

NOTE

- The **SAT TU1/2** button cannot be used.
- 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 this owner’s manual. 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-1909. For details, refer to the instructions for the respective connection items below.









































NOTE

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

Preparations

Cables Used for Connections

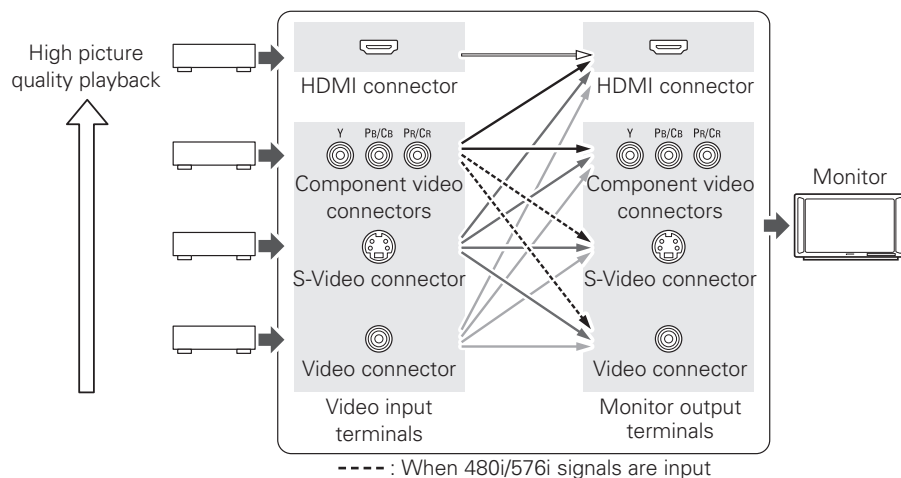
Select the cables according to the equipment being connected.

Audio cables	Video cables
<p>Coaxial digital connections</p> <p>(Orange)   </p> <p>Coaxial digital (75 Ω/ohms pin-plug) cable</p> <p>Optical digital connections</p> <p>  </p> <p>Optical cable</p> <p>Analog connections (stereo)</p> <p>(White)   </p> <p>(Red)   </p> <p>Stereo pin-plug cable</p> <p>Analog connections (monaural, for subwoofer)</p> <p>(Black)   </p> <p>Pin-plug cable</p> <p>Speaker connections</p> <p>  </p> <p>Speaker cables</p>	<p>Component video connections</p> <p>(Green)    (Y)</p> <p>(Blue)    (PB/CB)</p> <p>(Red)    (PR/CR)</p> <p>Component video cable</p> <p>S-Video connections</p> <p>  </p> <p>S-Video cable</p> <p>Video connections</p> <p>(Yellow)   </p> <p>75 Ω/ohms pin-plug video cable</p>
Audio and video cables	
<p>HDMI connections</p> <p>  </p> <p>19-pin HDMI cable</p>	
Signal direction	
<p>Audio signal:</p> <p>Output  Input</p> <p>Input  Output</p> <p>Video signal:</p> <p>Output  Input</p> <p>Input  Output</p>	

Video Conversion Function

- This function automatically converts various formats of video signals input to the AVR-1909 into the format used to output the video signals from the AVR-1909 to a monitor.
- The AVR-1909's video input/output circuitry is compatible with the following four types of video signals:
Digital video signals : HDMI
Analog video signals : Component video, S-Video and Video

[Flow of video signals inside the AVR-1909]



- When not using this function, connect a monitor output with the same type of connector as the video input connector.
- The resolution of the HDMI input-compatible monitor connected to the AVR-1909 can be checked at menu "Information" – "HDMI Information" (page 45).

NOTE

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

About On-screen Displays due to Input Signals

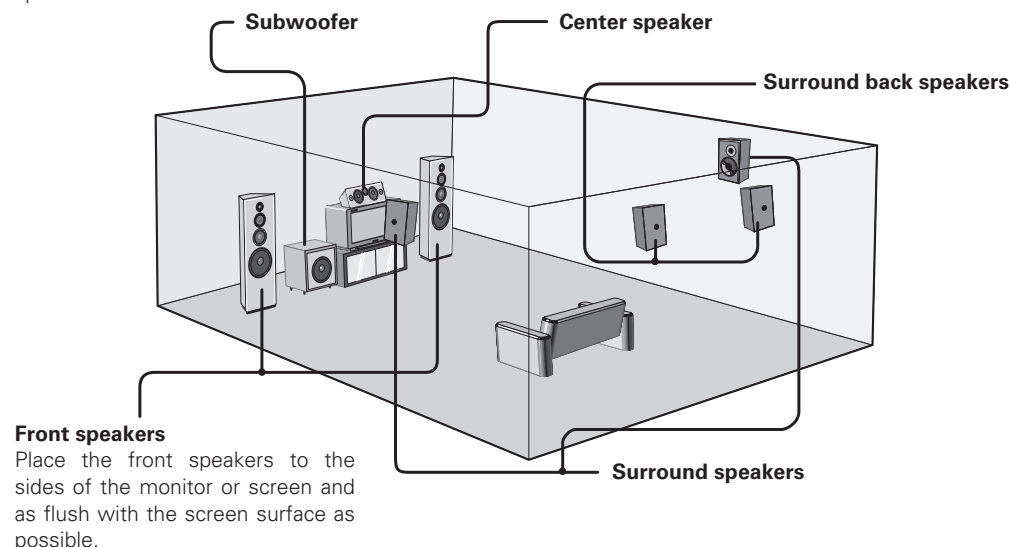
The method of on-screen display (OSD) varies with the type of video signal input to AVR-1909.

Video signal being used	Menu display	Momentary status display when operating (Display when changing the input source, volume, etc.)
HDMI connector / Component video connectors	OSD only display	Turn display off
S-Video connector / Video connector	Display of OSD superimposed on the input image	Turn display on

Speaker Connections

Speaker Installation

The illustration below shows a basic example (7.1-channel) of installation of the amplifier combined with 8 speakers and a monitor.

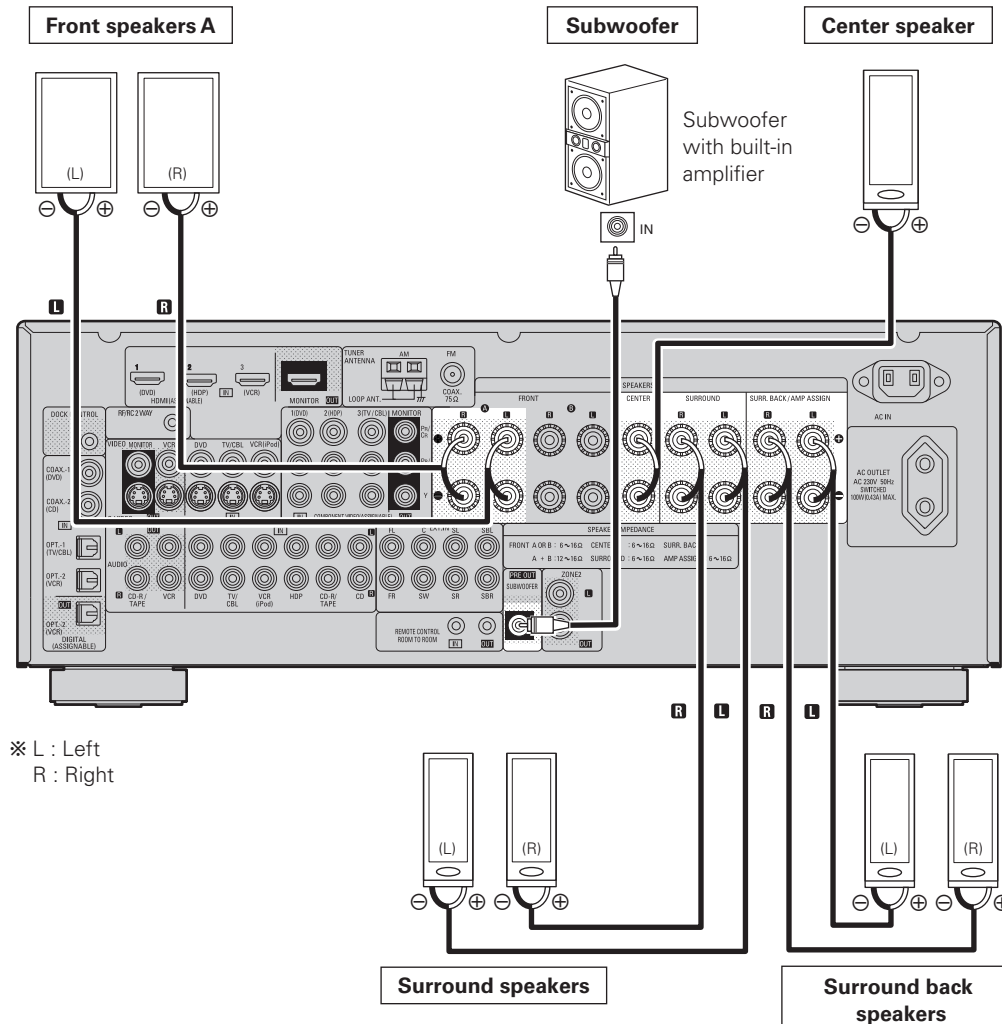


The table below shows a typical speaker configuration for the AVR-1909.

	FRONT A / B		CENTER	SURROUND		SURROUND BACK			SUBWOOFER
	L	R		L	R	L	R	1 speaker	
7.1-channels	○	○	○	○	○	○	○	—	○
6.1-channels	○	○	○	○	○	—	—	○	○
5.1-channels	○	○	○	○	○	—	—	—	○
3.1-channels	○	○	○	—	—	—	—	—	○
2.1-channels	○	○	—	—	—	—	—	—	○
2-channels	○	○	—	—	—	—	—	—	—

Speaker Connections

Example: 5.1 / 7.1-channels



※ L : Left
R : Right

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-1909, and be sure to interconnect the channels and polarities correctly.

- 1 Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.
- 2 Turn the speaker terminal counterclockwise to loosen it.
- 3 Insert the speaker cable's core wire to the hilt into the speaker terminal.
- 4 Turn the speaker terminal clockwise to tighten it.

NOTE

- Use speakers with an impedance of 6 to 16 Ω /ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 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 (⚡ “Protection circuit”).
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Protection circuit

If the core wires touch the rear panel and the screws etc., or the \pm sides touch each other, the protection circuit will be activated and the power indicator will flash red at intervals of 0.5 secs. If the protection circuit is activated, the speaker output is isolated, and the power supply goes to the standby state. If the power supply is turned off, after the power supply cord is withdrawn, please confirm that speaker cable and input cable are connected.

Also, if replaying large sound levels by using a speaker having an impedance less than that specified (eg, 4 Ω /ohms), the temperature will rise, and the protection circuit might be activated. The power supply will go into the standby state, and the power indicator will flash red at 2 second intervals. In this case, please switch off the power supply, and wait until the AVR-1909 has cooled down, and the surrounding ventilation is good.

Even if there are no problems with the surrounding ventilation and connections, in the event of the protection circuit becoming activated, due to thinking that the AVR-1909 has failed, please contact DENON Service center after switching off.

NOTE

For surround back speakers :

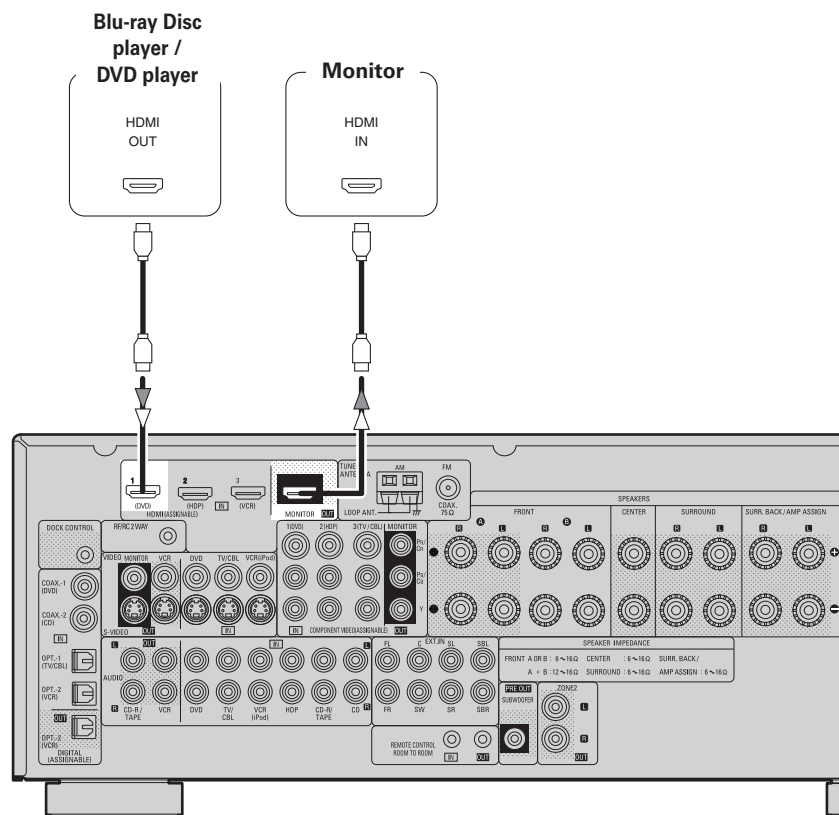
- When using just one surround back speaker, connect it to the left channel (SBL).

For ZONE2 speakers :

- When outputting audio from the surround back speakers with ZONE2, set to “ZONE2” with “Manual Setup” – “Option Setup” – “Amp Assign” from the menu. For multi-zone connection and operation, see “Amp Assign / Multi-zone Connections and Operations” (ⓘ page 60 ~ 62).

Connecting Equipment with HDMI connectors

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



- ※ The AVR-1909 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-1909 is compatible with 30- and 36-bit Deep Color.

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

NOTE

- The audio signals output from the HDMI connector (sampling frequency, bit rate, etc.) may be restricted by the connected device.
- Video signals are not output properly when using devices that are not HDCP-compatible.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the Blu-ray Disc player / DVD player's resolution to a resolution with which the monitor is compatible.
- If the menu "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting (page 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 Blu-ray Disc player / DVD player does not support Deep Color, deep color signal transfer is not possible.
- If the monitor or Blu-ray Disc player / DVD player does not support xvYCC, xvYCC signal transfer is not possible.
- If the monitor does not support "Auto Lipsync Correction" function, this function will not work.
- The AVR-1909 is compatible with the HDMI's CEC (Consumer Electronics Control) function. Please note the following.
 - It may not work depending on the device it is connected to and its setup.
 - It does not operate with televisions or players that are not compatible with HDMI's CEC.



- When the AVR-1909 and Blu-ray Disc player / DVD player are connected using an HDMI cable, also connect the AVR-1909 and monitor using an HDMI cable.
- If the connected monitor or Blu-ray Disc player / DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. **When using a DVI cable, no audio signals are transmitted.**
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

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

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

Copyright protection system (HDCP)

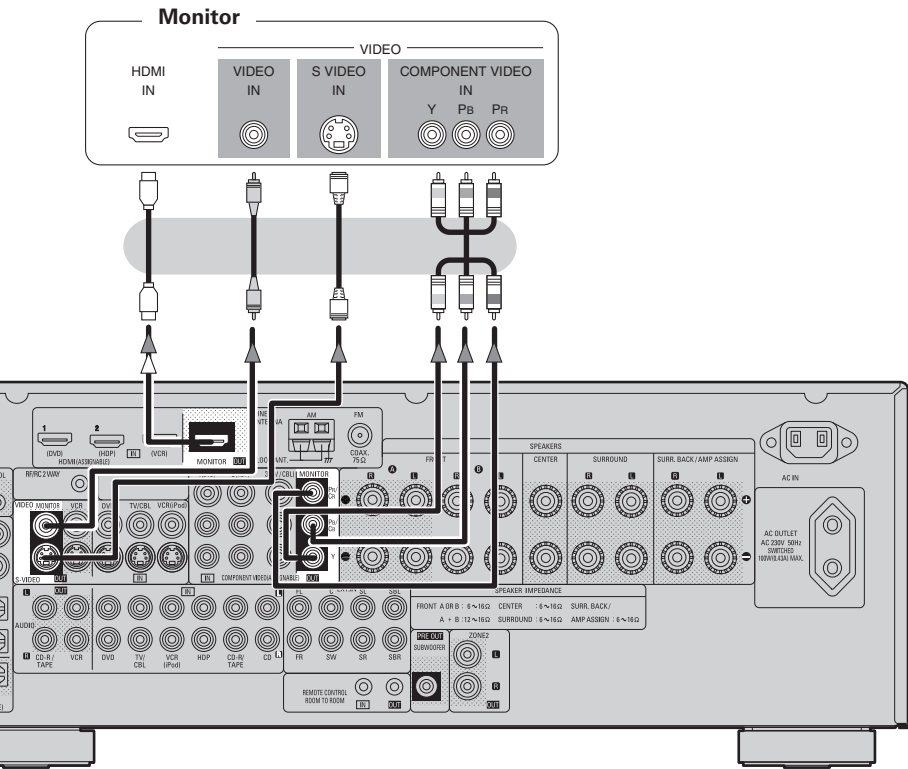
In order to play the digital video and audio signals of a Blu-ray, DVD-Video or DVD-Audio disc using HDMI/DVI connections, both the connected Blu-ray Disc player / DVD player and monitor must be equipped for a copyright protection system called "HDCP" (High-bandwidth Digital Content Protection). HDCP is a copy protection technology consisting of data encoding and mutual identification of the devices. The AVR-1909 is HDCP-compatible. For details on the Blu-ray Disc player / DVD player or monitor you are using, refer to its operating instructions.



- By default, the HDMI audio signals are output from the speakers connected to the AVR-1909.
- To output the sound from the TV, make the settings at menu "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" – "TV" (page 26).

Connecting the Monitor

- Select the terminal to use and connect the device (☞ page 9 “Video Conversion Function”).
- With HDMI connections, the video and audio signals can be transferred with a single cable.
- To output the audio signals to the monitor with HDMI connections, set menu “Manual Setup” – “HDMI Setup” – “HDMI Audio Out” to “TV” (☞ page 26).



NOTE

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

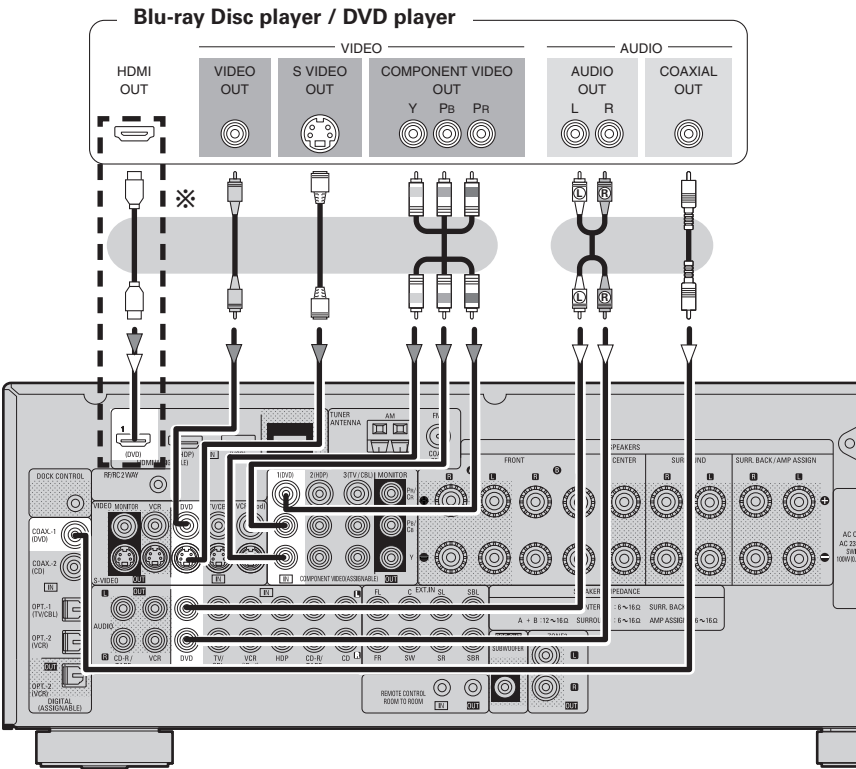
Connecting the Playback Components

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

Blu-ray Disc player / DVD player

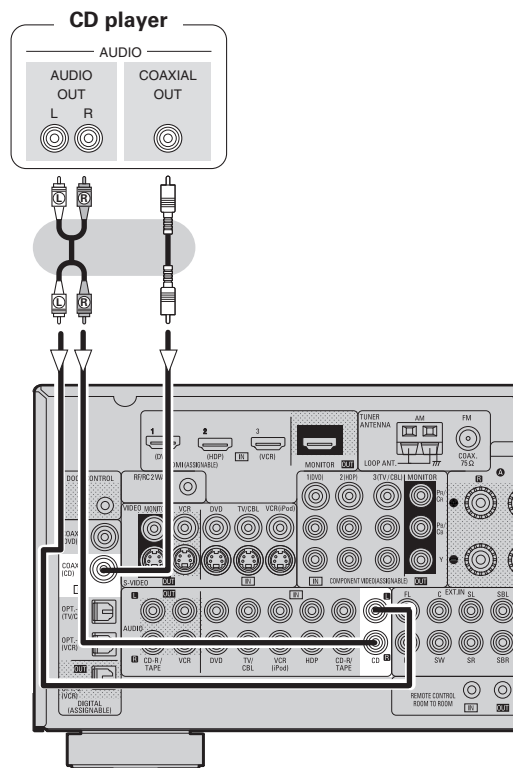
Select the terminal to use and connect the device.

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



When using an optical cable for the digital audio connection, make the settings at menu “Input Setup” – “Assign” – “Digital In” (☞ page 35).

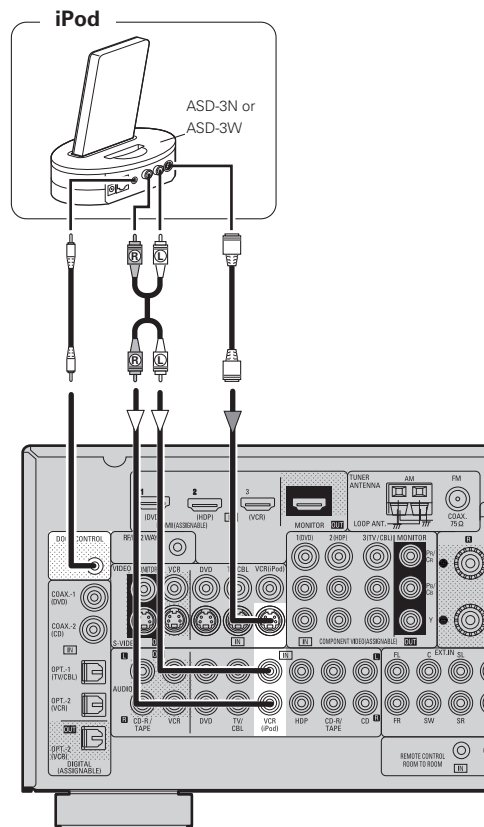
CD Player



When using an optical cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (page 35).

iPod®

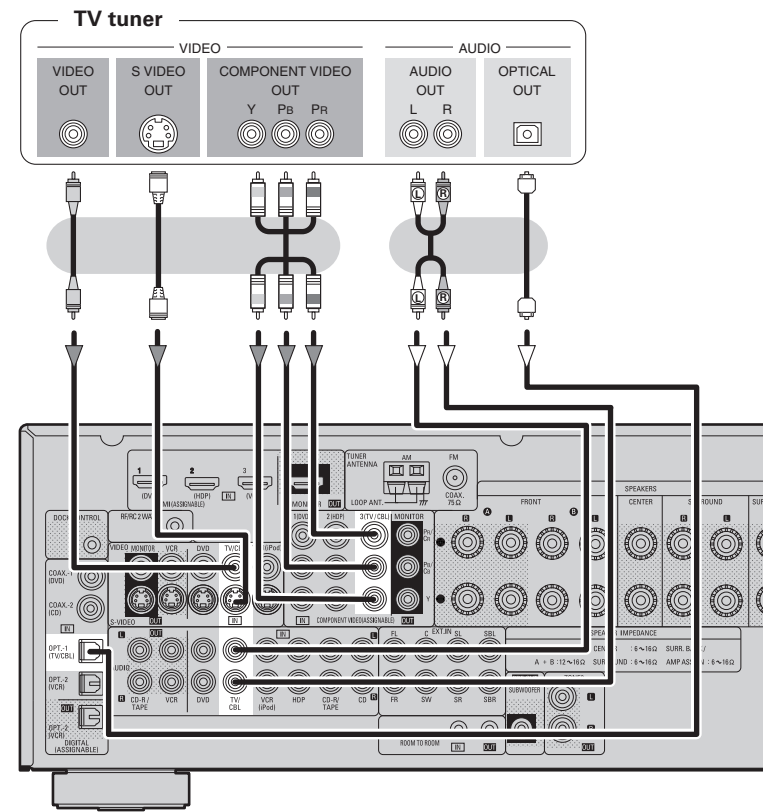
Use a DENON control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W sold separately) to connect the iPod to the AVR-1909. For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions.



- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- To assign the iPod to a connector other than VCR (iPod), make the settings at menu "Input Setup" – "(input source to which iPod dock assigned)" – "Assign" – "iPod Dock" (page 35).

TV/CABLE Tuner

Select the terminal to use and connect the device.



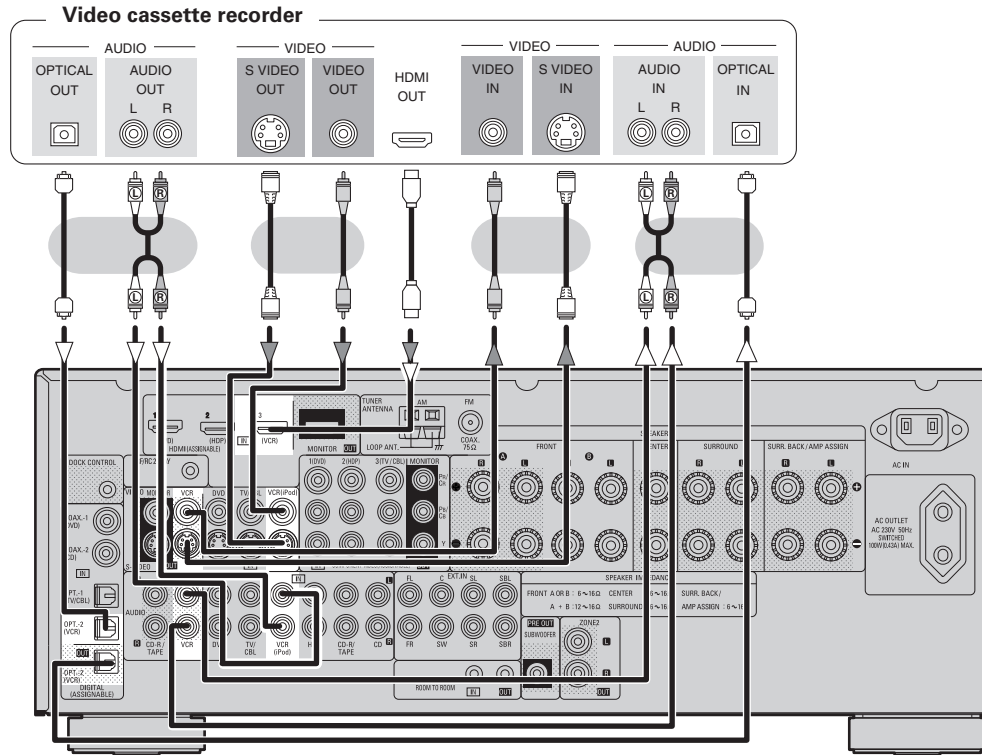
When using a coaxial cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (page 35).

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

Select the terminal to use and connect the device.



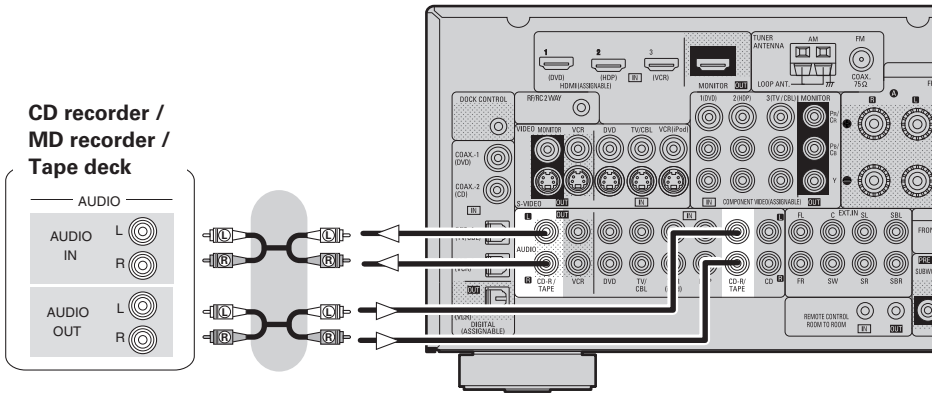
- When recording via the AVR-1909, the playback device's cable must be of the same type as the cable used to connect the AVR-1909's VCR OUT connector.
Example: TV IN → S-Video cable : VCR OUT → S-Video cable
TV IN → Video cable : VCR OUT → Video cable
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (page 35).

NOTE

Do not connect the output of the component connected to the AVR-1909's OPTICAL2 output connector to any input connector other than OPTICAL2.

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.

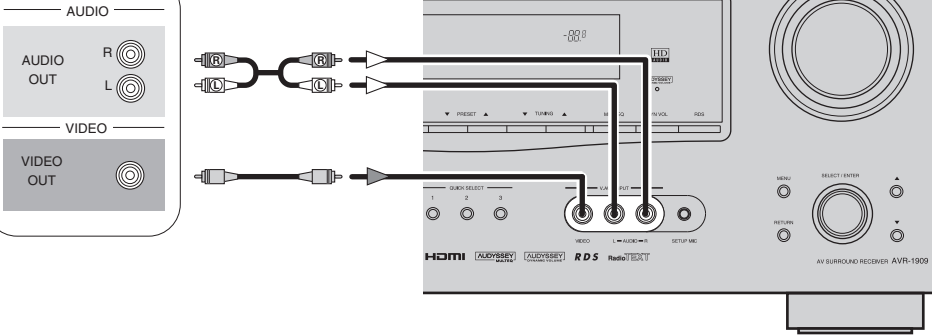


Connections to Other Devices

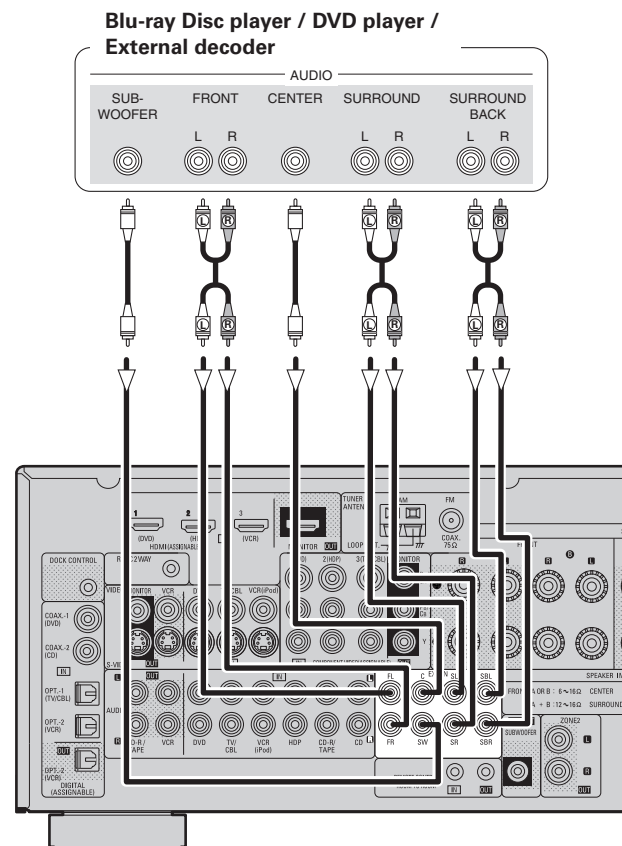
Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Video Camera / Game Console

Video camera / Game console



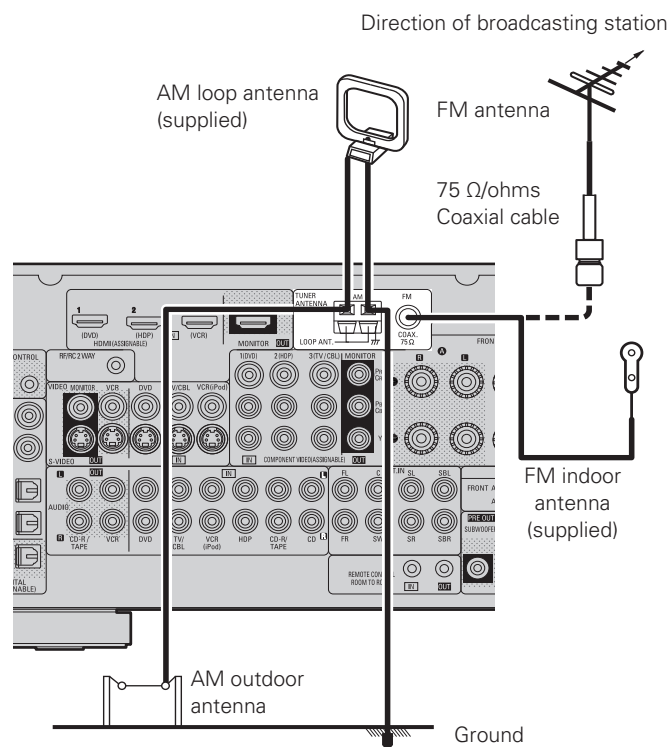
Component with Multi-channel Output connectors



- To play the analog input signals input to the EXT. IN connectors, press the **INPUT MODE** button on the main unit or **INPUT** button on the remote control unit and select "EXT. IN" or make the settings at menu "Input Setup" – "Input Mode" – "Input Mode" – "EXT. IN" (page 34).
- The video signal can be connected in the same way as a Blu-ray Disc player / DVD player (page 12).

Antenna terminals

An FM antenna cable plug can be connected directly.



AM loop antenna assembly

1. Remove the vinyl tie and take out the connection line.
 2. Bend in the reverse direction.
 3. Mount
 - a. With the antenna on top of any stable surface.
 - b. With the antenna attached to a wall.
- Installation hole Mount on wall, etc.

Connection of AM antennas

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



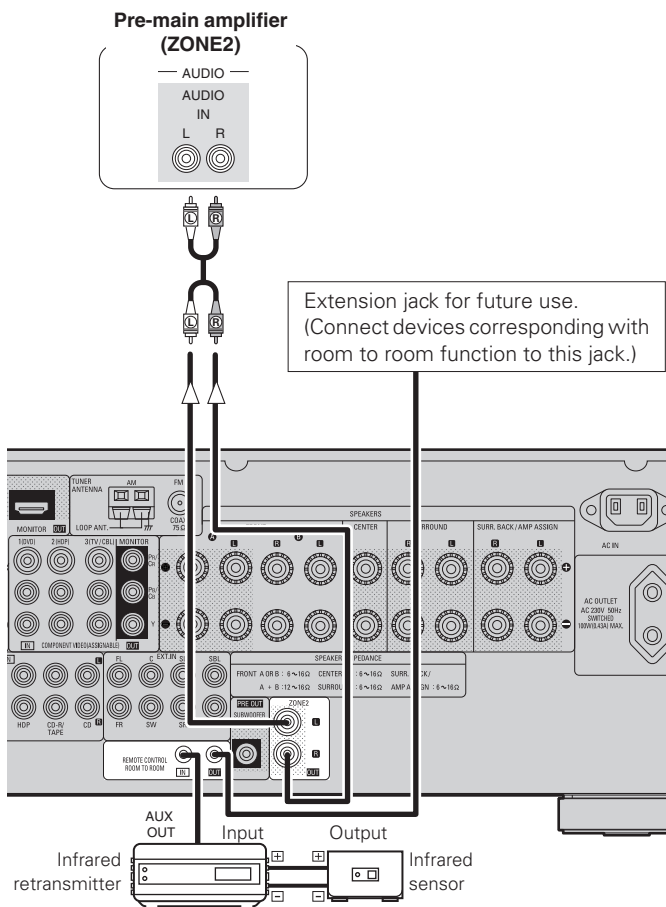
NOTE

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

Multi-zone

ZONE2 out Connections

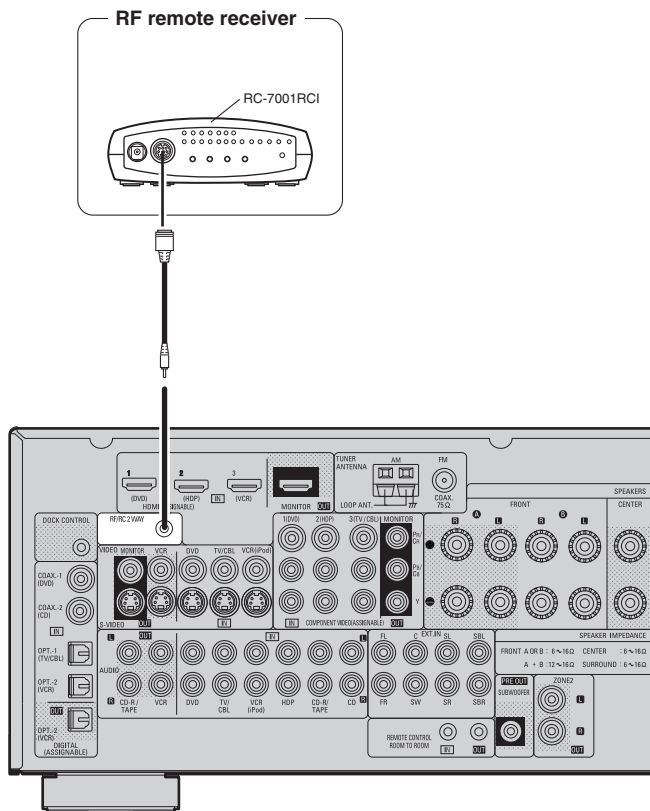
If another pre-main (integrated) amplifier is connected, the ZONE2 out connectors can be used to play a different program source in ZONE2 at the same time (see page 60 ~ 62).



NOTE

- For the audio output, use high quality pin-plug cords so that no induction humming or noise is produced.
- For instructions on installing and operating separately sold devices, refer to the respective devices' operating instructions.
- To conduct multi-zone playback, see "Amp Assign / Multi-zone Connections and Operations" (see page 60 ~ 62).

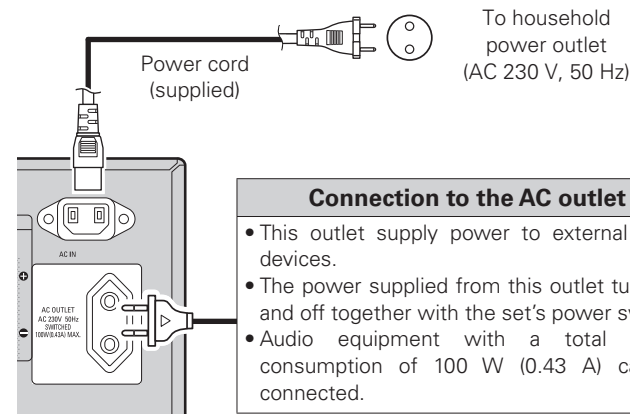
External Controller



- When using in combination with an RF Remote Controller (RC-7000CI, sold separately) or RF Remote Receiver (RC-7001RCI, sold separately) two-way communication with an RF Remote Controller is possible.
The AVR-1909's status information as well as iPod can be browsed watching the RF Remote Controller's display. For details, refer to the operating instructions of the respective devices.
- When used in combination with an RF Remote Controller or RF Remote Receiver, make the settings at menu "Manual Setup" - "Option Setup" - "2Way Remote" - "Used" (see page 31).

Connecting the Power Cord

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



Connection to the AC outlet

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

NOTE

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

Once Connections are Completed

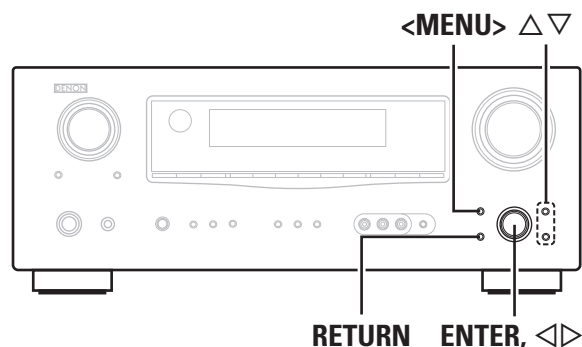
Turning the Power On (see page 46)

Menu Operations

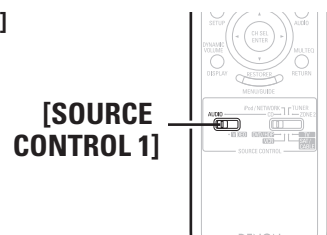


Symbols used to indicate buttons in this manual

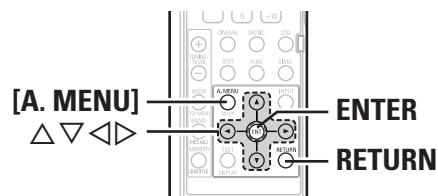
- Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**



[Front]



[Rear]



With the AVR-1909, 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 control unit.

1 Press <MENU> or [A.MENU].

The menu is displayed.

※ To operate from the remote control unit, be sure to set the **[SOURCE CONTROL 1]** to "AUDIO".

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

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

4 To change the setting:

4 Press Δ ∇ 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 \triangleleft to reset to the default setting.

5 Press ENTER to enter the setting.

6 Press <MENU> or [A.MENU] to finish.



When <MENU> or [A.MENU] is pressed, the settings made up to that point are entered and the settings menu screen turns off.

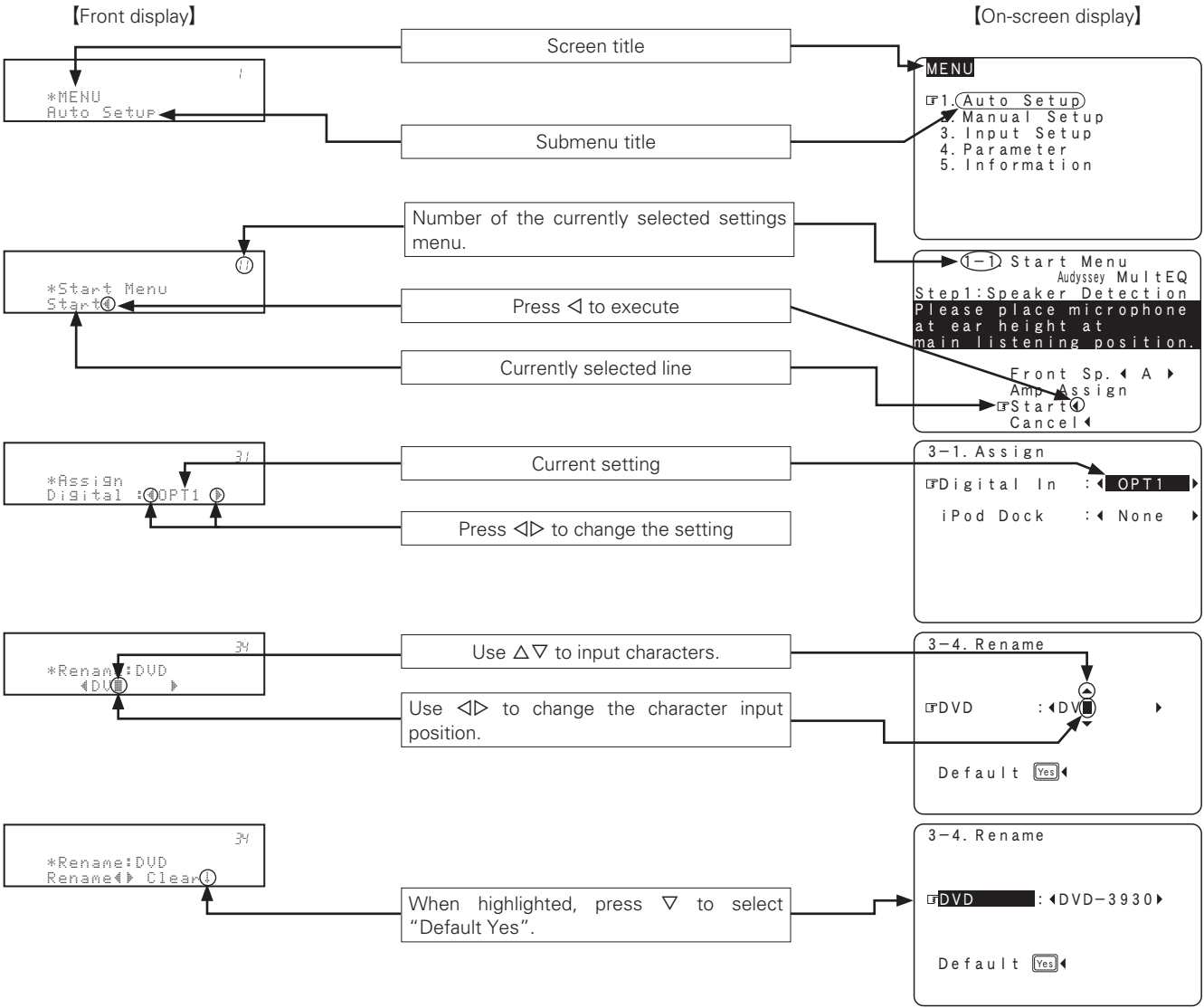
Example of Display of Default Values

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

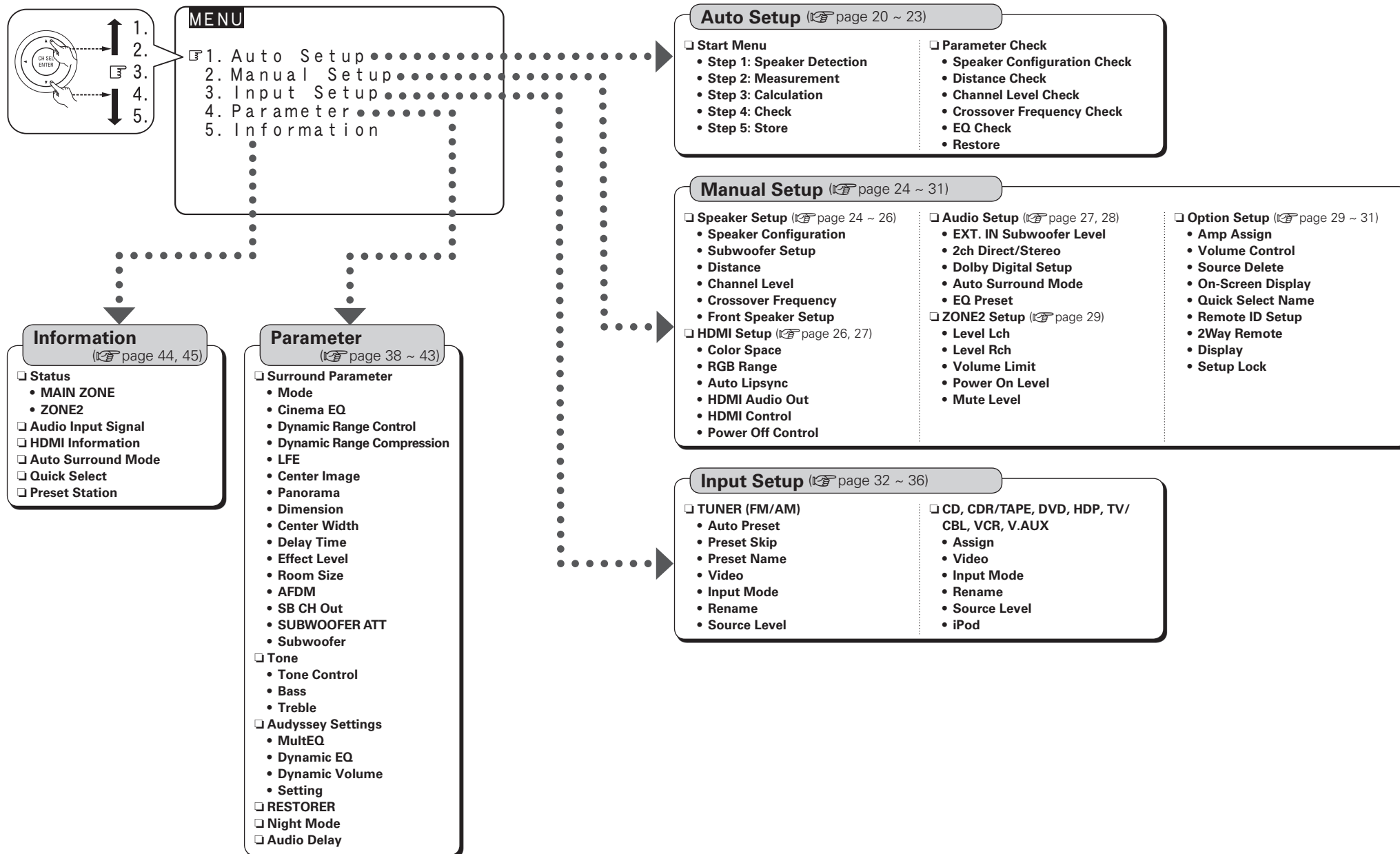
[Selectable items] **A** B A + B

Examples of On-screen Display and Front Display

Some typical examples are described below.



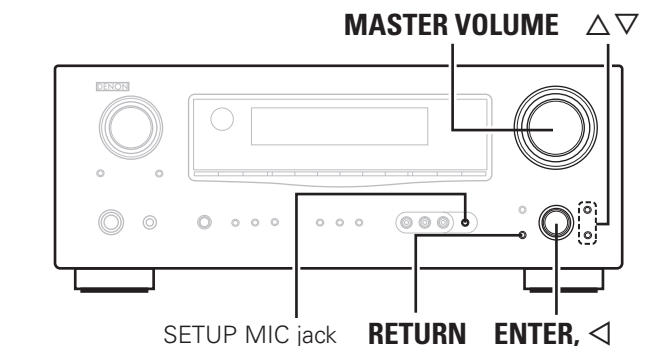
Menu Map



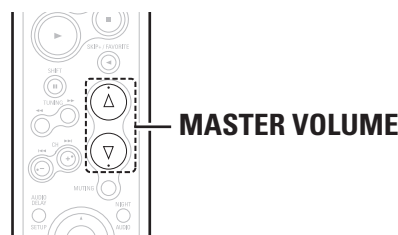
Auto Setup

Symbols used to indicate buttons in this manual

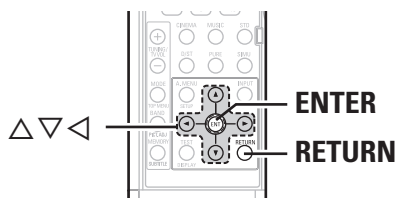
- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**



[Front]

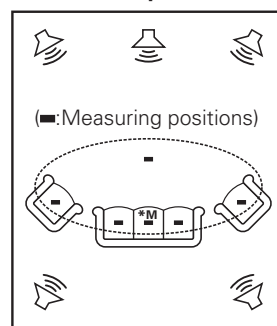


[Rear]

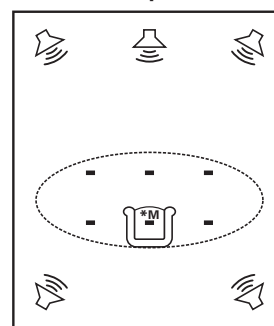


- Audyssey MultEQ® automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- Audyssey MultEQ optimizes a large listening area where one or more listeners are seated. Measurements are performed by placing the calibrated microphone (DM-A409) successively at multiple positions throughout the listening area as shown in **Example ①**. For best results, it is strongly recommended to measure 6 positions so that the measurements have the proper spatial weighting. Even if the listening environment is small as shown in **Example ②**, measuring at multiple points throughout the listening environment results in more effective correction.

Example ①



Example ②



About the main listening position (*M)

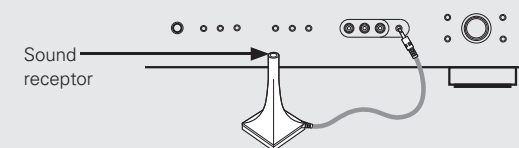
The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.



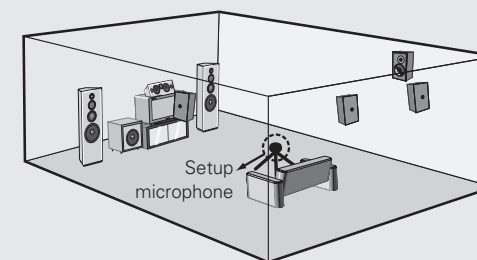
To make manual adjustments to the settings, see pages 24 ~ 26.

Preparations

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



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



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



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

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

NOTE

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

Auto Setup

Optimize settings for speakers in use.

1 Start Menu

The settings found at this stage are applied automatically.

[Auto setup flow]

Step 1: Speaker Detection



Step 2: Measurement



Step 3: Calculation



Step 4: Check



Step 5: Store

NOTE

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

About the Auto Setup

The Audyssey MultEQ auto setup function detects the presence of each speaker and automatically calculates the speaker size, channel level, distance, and optimal crossover frequency setting. Audyssey MultEQ corrects acoustical distortions within the listening area. Before starting, connect and position all of your speakers. Once started, MultEQ will play a series of test tones through each speaker.

※ Before starting Auto Setup (1)

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

□ Front Speaker

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

[Selectable items]

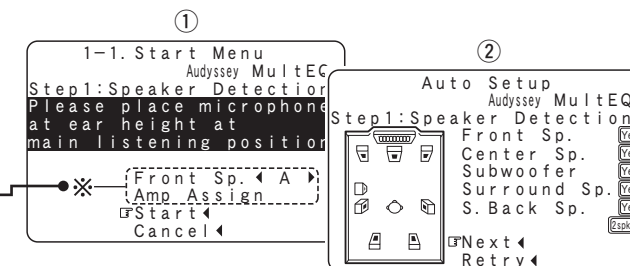
- A** : Output test tone from front speakers A.
- B** : Output test tone from front speakers B.
- A+B** : Output test tone from front speakers A and B.

□ Amp Assign

Advanced setting : changes power amplifier assignment. You can use the surround back speaker for multi-zone, and for front channel bi-amp use. (Default : 7.1ch)
For details, refer to "Amp Assign" (page 29).

Step 1 : Speaker Detection

● Menu screen ●



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

① Select "Start", then press \blacktriangleleft .

- Starts measuring the main listening position.

② Select "Next", then press \blacktriangleleft .

□ To cancel Auto Setup

Press \triangleup to select "Cancel", then press \blacktriangleleft .



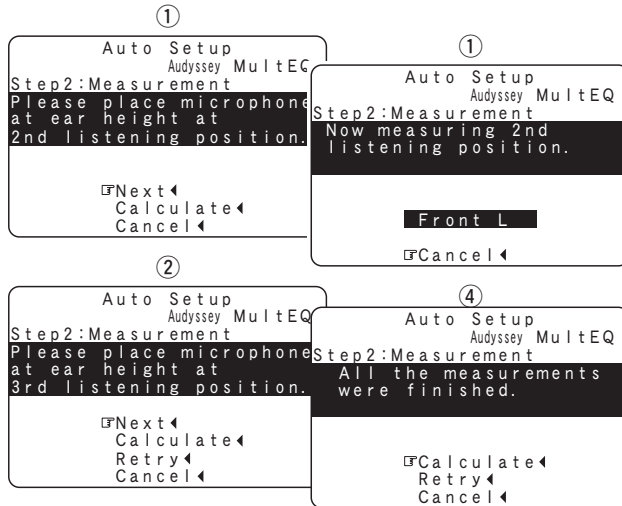
- If an error message appears during the measurements, check "Error Messages", take the advised action, then start the measurements again (page 23).
- If the result differs from the actual connection status or an error message appears, use ∇ to on-screen display "Retry" and then press \blacktriangleleft to repeat the measurement.
- If the result still differs from the actual connection status after re-measurement or the error message still appears, it is possible that the speakers are not connected properly. Turn the AVR-1909 off, check the speaker connections and repeat the measurement process from the beginning.

NOTE

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

Step 2 : Measurement

● Menu screen ●



- ① Select "Next ◀", then press ◀.
 - The measurement of the 2nd position starts.
 - Select "Calculate ◀" with ▽, and press ◀ to proceed to Step 3.
- ② Move the microphone to the 3rd position and press ◀.
 - The measurement of the 3rd position starts.
 - Select "Calculate ◀" with ▽, and press ◀ to proceed to Step 3.
- ③ Perform ② repeatedly for the 4th, 5th, and 6th measurements.
- ④ "All the measurements were finished." is displayed on the on-screen display. When you have completed measurements in 6 positions.
 - Select "Calculate ◀", and press ◀ to proceed to Step 3.

❑ To cancel Auto Setup

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

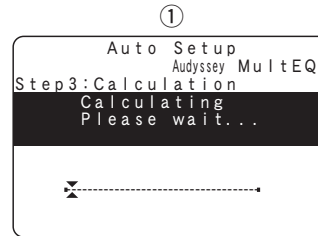


After completing a measurement position, move the microphone to the next position.

Measure at 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

● Menu screen ●



The values obtained from the measurements are automatically analyzed and the attributes for each of the speakers in the listening area are determined.

- ① Select "Calculate ◀" at Step 2, then press ◀.
 - Analysis begins.



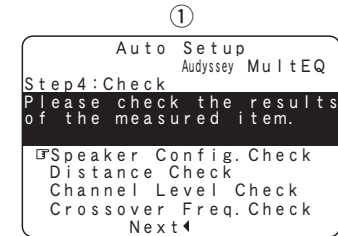
- Analysis takes several minutes to complete.
- The time required for this analysis depends on the number of speakers connected. The greater the number of speakers connected, the longer analysis will take.

NOTE

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

Step 4 : Check

● Menu screen ●



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

- ① Make your selection using △▽ and press **ENTER**.

- Presence and size of speaker
"Speaker Config. Check"
- Distance of speaker from listening position
"Distance Check"
- Speaker channel level
"Channel Level Check"
- Crossover Frequency
"Crossover Freq. Check"

- ② Use △▽ to change which speaker is displayed.

- ③ Press **RETURN**.

This returns you to analysis results items, so repeat step ①.

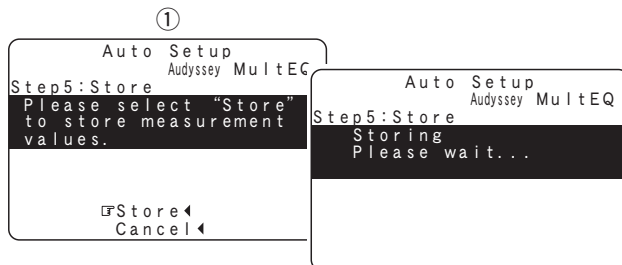
- ④ Press ▽ to select "Next ◀", then press ◀ to proceed to Step 5.



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

Step 5 : Store

● Menu screen ●



The auto setup measurement results are stored in the AVR-1909.

- ① Select "Store ◀", then press ◀.
 - "Storing Please wait..." is displayed on the on-screen display while the results are being stored.
 - When storing is complete, "Storing complete. Auto Setup is now finished." is displayed on the on-screen display.
- ② Disconnect the setup microphone from the AVR-1909.

❑ To cancel storing

- Press △▽ to select "Cancel ◀", then press ◀.
- All the measured auto setup data will be erased.

NOTE

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

2 Parameter Check

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

[Selectable items]

Speaker Config. Check	Distance Check
Channel Level Check	Crossover Freq. Check
EQ Check	



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

Error Messages

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

Error messages (examples)	Cause	Measures
	<ul style="list-style-type: none"> • Included setup microphone is not connected. • Not all speakers could be detected. • The front L speaker was not properly detected. 	<ul style="list-style-type: none"> • Connect the included setup microphone to the SETUP MIC jack on the main unit. • Check the speaker connections.
	<ul style="list-style-type: none"> • Too much noise in the room for accurate measurements to be made. • Speaker or subwoofer sound is too low for accurate measurements to be made. 	<ul style="list-style-type: none"> • 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.
	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Check the connections of the displayed speaker.
	<ul style="list-style-type: none"> • Displayed speaker connected with the polarities reversed. 	<ul style="list-style-type: none"> • Check the polarities of the displayed speaker. • For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure that the wiring is correct, select "Skip".

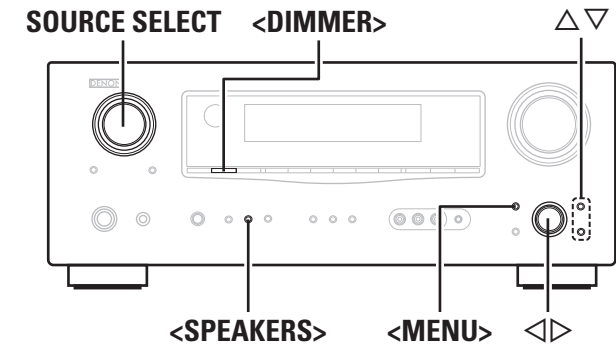
Select "Retry" to measure again.

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

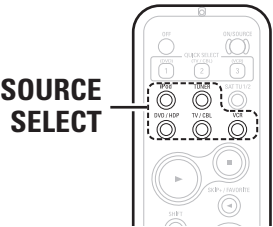
Manual Setup

Symbols used to indicate buttons in this manual

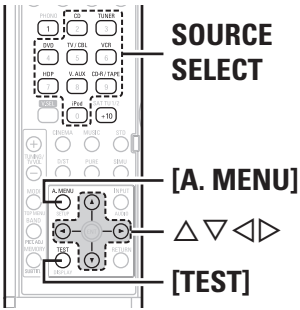
Button located on both the main unit and the remote control unit → **BUTTON**
Button only on the main unit → **<BUTTON>**
Button only on the remote control unit → **[BUTTON]**



[Front]



[Rear]

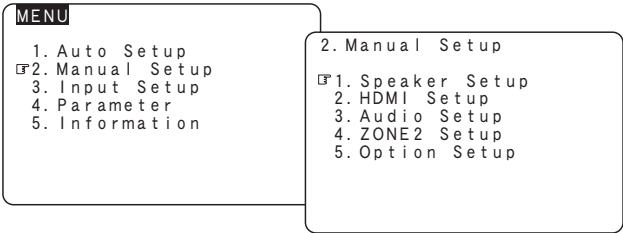


Make detail settings for various parameters.

Speaker Setup

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

● Menu screen ●



1 Speaker Configuration

Select speaker configuration and size.
(bass reproduction capability)

Front Speaker

Select front speaker size.

[Selectable items]

Large Small

Center Speaker

Select center speaker use and size.

[Selectable items]

Large Small None

Subwoofer

Select subwoofer use.

[Selectable items]

Yes No

Surround Speaker

Select surround speakers use and size.

[Selectable items]

Large Small None

Surround Back Speaker

Select surround back speaker use and size.

[Selectable items]

Large Small None

2spkrs 1spkr

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

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

None :Select this when no speaker is connected.

Yes :Select this when a subwoofer is connected.

No :Select this when no subwoofer is connected.

2spkrs 1spkr :

Select the number of surround back speakers.

Even when the surround back speaker setting is other than “None”, sound may not be emitted from the surround back speaker, depending on the playback source. In this case, make a menu “Parameter” – “Surround Parameter” – “SB CH Out” setting other than “OFF” (page 40).

- Select “Large” or “Small” not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency set at “Crossover Frequency” (page 26).
- When “Front Speaker” is set to “Small”, “Subwoofer” can automatically set to “Yes”.
- If “Subwoofer” is set to “No”, “Front Speaker” is automatically set to “Large”.
- If “Surround Speaker” is set to “None”, “Surround Back Speaker” are automatically set to “None”.
- When “Front Speaker” is set to “Small”, “Center Speaker” can not be set to “Large”.
- When using just one surround back speaker, connect it to the left channel (SBL).
- When set to other than “7.1ch” with “Amp Assign”, “Surround Back Speaker” is not displayed.

2 Subwoofer Setup

Select low range signal to be reproduced by subwoofer.

[Selectable items]

LFE : Play low range and LFE signal of channels set to "Small".

LFE+Main : Play low range and LFE signal of all channels.



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

3 Distance

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

Unit

Select unit for distance.

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

Step

Select step. (smallest distance)

[Selectable items]

0.1m **0.01m** : Can be selected when "Meters" is set.

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

Default

Reset the settings to the default values.

Distance measurement

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

[Variable range]

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

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

NOTE

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

4 Channel Level

Adjust channel levels to obtain equal volume from all speakers.

Test Tone

Select test tone playback method.

[Selectable items]

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

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

Test Tone Start

Output test tone.

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

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

Default

Reset the settings to the default values.



Operating from the remote control unit

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

[Adjusting using test tones]

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



- When the menu "Speaker Configuration" – "Surround Back Speaker" setting (page 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 54.

5 Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

[Selectable items]

40Hz

60Hz

80Hz

90Hz

100Hz

110Hz

120Hz

150Hz

200Hz

250Hz

:

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

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

Advanced :

Set the crossover frequency separately for the different speakers.



- If in the “Advanced” settings, “Subwoofer Setup” (🔑 page 25) in the menu is set to “LFE”, it is possible to make this setting for speakers set to “Small” at “Speaker Configuration”. If set to “LFE+Main”, this setting can be made regardless of the speaker size.
- For speakers set to “Small”, sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
- Always set the crossover frequency to “80 Hz”. When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.

6 Front Speaker Setup

Select front speakers to use for each surround mode.

[Selectable items]

Normal : To change the settings, select “Custom”.

Custom : When set to “Custom”, you can select beforehand the front speaker to use for each surround mode.

[Selectable items]

DIRECT/STEREO :

A

B

A+B

MULTI CH :

A

B

A+B

NOTE

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

HDMI Setup

Make settings for HDMI video/audio output.

● Menu screen ●

2. Manual Setup

- 1. Speaker Setup
- 2. HDMI Setup
- 3. Audio Setup
- 4. ZONE2 Setup
- 5. Option Setup

2-2. HDMI Setup

- Color Space
 - YCbCr
- RGB Range
 - Normal
- Auto Lipsync
 - ON

2-2. HDMI Setup

- HDMI Audio Out
 - AMP
- HDMI Control
 - ON
- Power Off Control
 - ON

1 Color Space

Make settings for output color space.

[Selectable items]

YCbCr : Output using YCbCr format.

RGB : Output using RGB format.



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

2 RGB Range

Make settings for RGB output range.

[Selectable items]

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

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



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

3 Auto Lipsync

Automatic compensation for timing shift in audio and video output.

[Selectable items]

ON

OFF

4 HDMI Audio Out

Select HDMI audio output device.

[Selectable items]

AMP : Use speakers connected to receiver for audio playback.

TV : Use speakers of TV for audio playback.

NOTE

When the HDMI control function is operating, the setting of audio playback in the connected TV takes priority (🔑 page 53 “HDMI Control Function”).

5 HDMI Control

Make settings for HDMI control function.

[Selectable items]

ON

OFF



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

NOTE

For details, see “HDMI Control Function” (🔑 page 53).

6 Power Off Control

Interlock power OFF with HDMI control.

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



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

NOTE

- When the “HDMI Control” setting has been changed, always turn off the power to the connecting devices afterwards and then turn back on.
- The “HDMI Control” and “Power Off Control” does not work when the power to the equipment is off. Either power on or set to standby.
- For details, see “HDMI Control Function” (📖 page 53).

Audio Setup

Make settings for audio playback.

● Menu screen ●

2. Manual Setup

1. Speaker Setup
2. HDMI Setup
3. Audio Setup
4. ZONE2 Setup
5. Option Setup

2-3. Audio Setup

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

1 EXT. IN Subwoofer Level

Set the subwoofer level for playback.

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



We recommend setting to “+15dB”.

2 2ch Direct/Stereo

Make speaker settings for 2-channel mode playback.

Setting

To change the settings, select “Custom”.

[Selectable items]

Basic : Use the same settings as in “Speaker Setup”.

Custom : Make separate settings for 2-channel mode.

Front

Select front speaker size.

[Selectable items]

Large **Small** : Select front speaker size.

Subwoofer

Select subwoofer use.

[Selectable items]

Yes **No** : Select subwoofer use.

Subwoofer Mode

Select low range signal to be reproduced by subwoofer.

[Selectable items]

LFE **LFE+Main** : Select subwoofer signal.

Crossover

Select crossover frequency from which subwoofer handles low range signal.

[Selectable items]

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

Distance FL

Set distance from listening position to front left speaker.

[Variable range] **0.00m ~ 18.00m**

Distance FR

Set distance from listening position to front right speaker.

[Variable range] **0.00m ~ 18.00m**

NOTE

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

3 Dolby Digital Setup

Set dynamic range for downmix playback of Dolby Digital sources.

[Selectable items]

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

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



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

4 Auto Surround Mode

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

[Selectable items]

ON : Memorize settings. Most recently stored surround mode is automatically selected.

OFF : Do not memorize settings. Surround mode does not change according to input signal.



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

5 EQ Preset

Set MultEQ related settings and Manual EQ beforehand.

EQ Customize

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

☐ Before running Auto Setup

[Selectable items]

Manual : **Used** **Not Used**

☐ After running Auto Setup

[Selectable items]

Audyssey Byp. L/R : **Used** **Not Used**

Audyssey Flat : **Used** **Not Used**

Manual : **Used** **Not Used**

Direct Mode

Select “MultEQ” use for DIRECT or PURE DIRECT mode.

[Selectable items]

ON : Use “MultEQ”.

OFF : Do not use “MultEQ”.

Manual EQ

Adjust tonal quality for each speaker using graphic equalizer.

☐ Default

Reset the settings to the default values.

☐ Base Curve Copy

Copy the MultEQ “Audyssey Flat” correction curve.



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

☐ Adjust CH

① Select speaker adjustment method.

[Selectable items]

Each CH : Adjust tonal quality for each speaker separately.

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

All CH : Adjust tonal quality for all speakers together.

② Select the speaker and frequency band and adjust the level.

[Selectable items] **63Hz** **125Hz** **250Hz** **500Hz** **1kHz**

2kHz **4kHz** **8kHz** **16kHz**

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

ZONE2 Setup

Make settings for audio playback in a ZONE2 system.

● Menu screen ●

2. Manual Setup

1. Speaker Setup
2. HDMI Setup
3. Audio Setup
4. ZONE2 Setup
5. Option Setup

2-4. ZONE2 Setup

Level Lch : ◀ 0dB ▶
 Rch : ◀ 0dB ▶
 Vol. Limit : ◀ OFF ▶
 Power On Lev. : Last ▶
 Mute Lev. : ◀ Full ▶

NOTE

"ZONE2 Setup" is displayed when ZONE2 is selected with "Amp Assign" (☞ page 29).

1 Level Lch

Adjust the left channel output level.

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

2 Level Rch

Adjust the right channel output level.

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

3 Volume Limit

Make a setting for maximum volume.

[Selectable items]

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

4 Power On Level

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

[Selectable items]

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

[Variable range]

-70dB ~ +18dB : Set the volume level when the power is turned on in units of 1 dB.

5 Mute Level

Set the amount of attenuation when muting is on.

[Selectable items]

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

Option Setup

Make various other settings.

● Menu screen ●

2. Manual Setup

1. Speaker Setup
2. HDMI Setup
3. Audio Setup
4. ZONE2 Setup
5. Option Setup

2-5. Option Setup

1. Amp Assign
2. Vol. Control
3. Source Delete
4. On-Screen Display
5. Quick Select Name
6. Remote ID Setup
7. 2Way Remote
8. Display
9. Setup Lock

1 Amp Assign

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

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

[Selectable items]

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



For details, see "Amp Assign / Multi-zone Connections and Operations" (☞ page 60 ~ 62).

2 Volume Control

Set the MAIN ZONE volume setting.

Volume Limit

Make a setting for maximum volume.

[Selectable items]

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

Power On Level

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

[Selectable items]

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

[Variable range]

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

Mute Level

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

[Selectable items]

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

3 Source Delete

Remove input sources that are not used from the display.

[Selectable items]

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

Default

Reset the settings to the default values.

NOTE

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

4 On-Screen Display

Make on-screen display related settings.
See page 9 for more information on on-screen displays due to input signals.

Screensaver

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

[Selectable items]

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



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

Text

Input source and mode display.

[Selectable items]

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

Master Volume

Master volume display during adjustment.

[Selectable items]

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

Tuner Information

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

[Selectable items]

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

iPod Information

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

[Selectable items]

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

Display Mode

Select the on-screen display's display mode.

[Selectable items]

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

5 Quick Select Name

Change the Quick Select name.
Up to 16 characters can be input.

[Input characters]

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

Default

Reset the settings to the default values.

6 Remote ID Setup

Set remote control ID.

[Selectable items]

1 **2** **3** **4**

NOTE

When using the AVR-1909 with only the included remote control unit (RC-1099), use Remote ID "1" (default).

When using a separately sold remote control unit (RC-7000CI, etc.), this function can be used. Match the ID setting of the remote control unit and the receiver.

7 2Way Remote

Make setting for 2-way remote control unit.

[Selectable items]

Used : Use 2-way remote control.

Not Used : Do not use 2-way remote control.



When using a 2-way remote control unit (RC-7000CI and RC-7001RCI, sold separately), set this to "Used".

8 Display

Adjust display brightness of the receiver.

[Selectable items]

Bright : Normal display brightness.

Dim : Reduced display brightness.

Dark : Very low display brightness.

OFF : Display is off unless controls are operated.



Operating from the main unit

Press **<DIMMER>**.



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

9 Setup Lock

Protect settings from inadvertent change.

[Selectable items]

ON : Turn protection on.

OFF : Turn protection off.



• When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt to operate related settings.

- RESTORER
- Night Mode
- MultEQ
- Dynamic EQ
- Dynamic Volume
- Channel Level
- Audio Delay

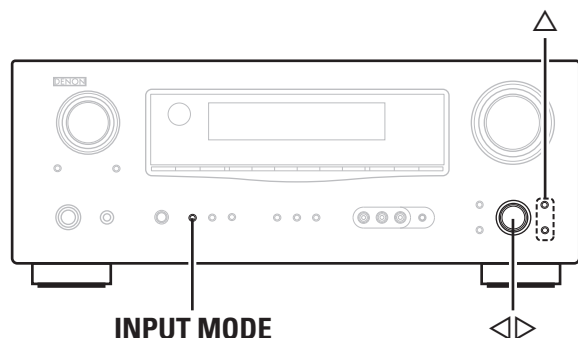
• To cancel the setting, press **<MENU>** or **[A.MENU]** to re-display the "Setup Lock" screen, then change the setting to "OFF".

Input Setup



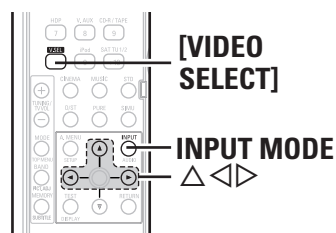
Symbols used to indicate buttons in this manual

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



INPUT MODE

[Rear]



[VIDEO SELECT]

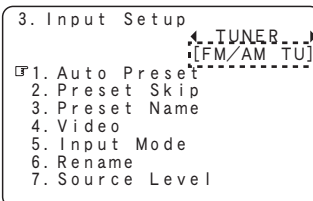
INPUT MODE

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

TUNER (FM/AM)

This menu is for "TUNER".

Menu screen

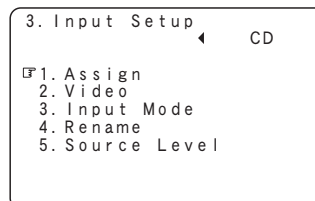


Displayed when source name is changed with "Rename".

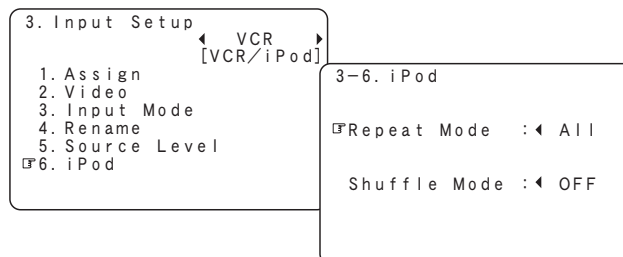
CD, CDR/TAPE, DVD, HDP, TV/CBL, VCR, V.AUX

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

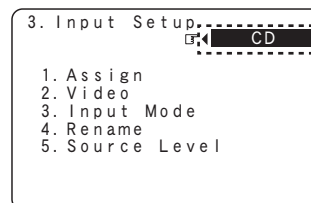
Menu screen



※ 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



Press Δ to align the cursor with the top right of the menu screen, and press $\triangleleft \triangleright$ to change the input source.



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

Settings Related to Playing Input Sources

1 Auto Preset

Use the auto preset function to program radio stations.

[Input source] **TUNER**

[Selectable items]

Start : Start the auto preset process.



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

2 Preset Skip

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

A ~ G

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

[Input source] **TUNER**

[Selectable items]

ON : Display this number.

Skip : Skip this number.



If you set "Block Presets" to "Skip", it is possible to skip entire preset memory blocks (A to G).

3 Preset Name

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

A1 ~ G8

Select the preset memory number.

[Input source] **TUNER**

[Characters that can be input]

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

4 Video

Setting the video source.

Video Select

Switch video input source while listening to audio signal.

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

[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 **[VIDEO SELECT]** until the desired picture appears.

※ To cancel, press **[VIDEO SELECT]** 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.
- When "HDP" is set to "None" with "Input Setup" – "Assign" – "Component In" from the menu, you cannot set "Video Select" to "HDP".

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".
- When "Convert" is set to "OFF", the video conversion function does not operate. In this case, connect to a monitor via the same type of terminal as the video input terminal.

i/p Scaler

Make settings for i/p scaler function.

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

[Selectable items]

A to H : Use i/p scaler function for analog video signal.

OFF : Do not use i/p scaler function.

NOTE

When the "Convert" setting is "OFF", you cannot set "i/p scaler".

Resolution

Make settings for resolution of HDMI video output signal.

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

[Selectable items]

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

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

1080i : Output at 1080i resolution.

720p : Output at 720p resolution.

1080p : Output at 1080p resolution.



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

NOTE

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

Progressive Mode

Select optimum progressive mode for video material.

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

[Selectable items]

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



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

Aspect

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

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

[Selectable items]

- Full** : Output at 16:9 aspect ratio.
- Normal** : Output at 4:3 aspect ratio.



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

5 Input Mode

Make input mode and decode mode settings for this source. The selectable input modes depend on the input source and “Assign” setting (🔧 page 29).

Input Mode

Set the input mode for this source.

[Input source] **TUNER**

[Selectable items]

- Analog** : Play only signals from analog input.
- EXT. IN** : Play only signals from EXT. IN input.

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

[Selectable items]

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

- *1: This can be selected for input sources for which the menu “Assign” setting is set to “HDMI In”.
- *2: This can be selected for input sources for which the menu “Assign” setting is set to “Digital In” (🔧 page 35).



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



Operating from the main unit or remote control unit

Press **INPUT MODE**.

Each time you press the button, the input mode display will change.



- *1: This can be selected for input sources for which the menu “Assign” setting is set to “HDMI In”.
- *2: This can be selected for input sources for which the menu “Assign” setting is set to “Digital In” (🔧 page 35).

Decode Mode

Set the decode mode for this source.

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

[Selectable items]

- Auto** : Detect type of digital input signal and decode and play automatically.
- PCM** : Decode and play only PCM input signals.
- DTS** : Decode and play only DTS input signals.



- This can be selected for input sources for which the menu “Assign” setting is set to “HDMI In” or “Digital In” (🔧 page 35).
- Only set “PCM” and “DTS” when playing the respective signals.

6 Rename

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

[Characters that can be input]

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

Default

Reset the settings to the default values.

7 Source Level

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

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



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

8 Assign

Assign input sources to input connectors.

HDMI In

Select HDMI connector to assign to this source.

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

[Selectable items]

HDMI1 : Assign HDMI1 input connector.

HDMI2 : Assign HDMI2 input connector.

HDMI3 : Assign HDMI3 input connector.

None : No HDMI input connector assigned.

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



- With HDMI, the video and audio signals are transferred simultaneously. When HDMI is assigned to an input source, the audio signal switches to HDMI along with the video signal. To use with the digital audio input connectors assigned, set menu "Input Mode" to "Digital".
- When the AVR-1909 and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

Digital In

Select digital input connector to assign to this source.

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

[Selectable items]

COAX1 : Assign COAXIAL 1 input connector.

COAX2 : Assign COAXIAL 2 input connector.

OPT1 : Assign OPTICAL 1 input connector.

OPT2 : Assign OPTICAL 2 input connector.

None : No digital input connector assigned.

Input source	CD	CDR/TAPE	DVD	HDP	TV/CBL	VCR	V.AUX
Default setting	COAX2	None	COAX1	None	OPT1	OPT2	None

Component In

Select component video input to assign to this source.

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

[Selectable items]

1-RCA : Assign component video 1 input connector.

2-RCA : Assign component video 2 input connector.

3-RCA : Assign component video 3 input connector.

None : No component video input connector assigned.

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

iPod Dock

Assign control dock for iPod to this source.

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

[Selectable items]

Assign : Assign iPod input.

None : Do not assign iPod input.



- With the default settings, the control dock for iPod can be used connected to the VCR (iPod) connector.
- Even if "iPod Dock" is set to "Assign", if AVR-1909 and control dock for iPod are not connected, the input is used as the normal input source.

9 iPod

Make settings for "iPod" playback.

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

Repeat Mode

Make settings for repeat mode.

[Selectable items]

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

Shuffle Mode

Make settings for shuffle mode.

☐ **When DENON control dock for iPod ASD-1R or ASD-11R is connected**

[Selectable items]

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

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

[Selectable items]

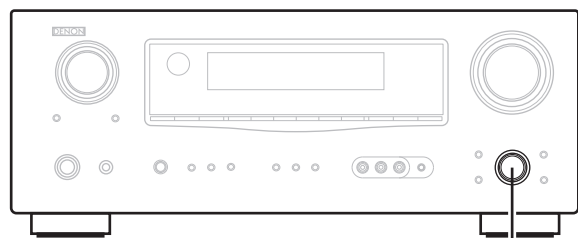
- ON** : Shuffle mode on.
OFF : Cancel shuffle mode.



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

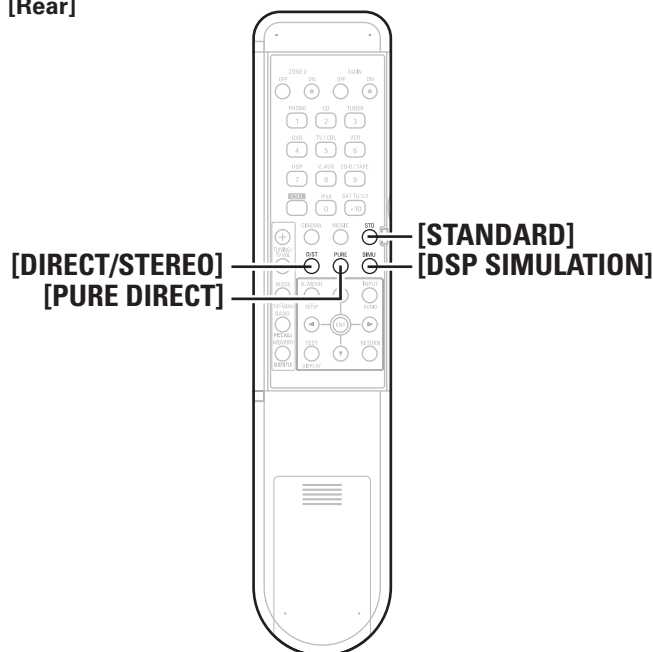
Surround Modes**Symbols used to indicate buttons in this manual**

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



<SELECT/ENTER>

[Rear]

**1 Standard Playback**

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

Surround Playback of 2-channel Sources**Selecting the surround mode**

Select by turning **<SELECT/ENTER>** or pressing **[STANDARD]**.
 The mode switches each time the **[STANDARD]** is pressed.

[Selectable items]

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

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

Select the mode to suit the source

Select the "Cinema", "Music", "Game" and "Pro Logic" modes at menu "Parameter" – "Surround Parameter" – "Mode" (page 39).

☐ DOLBY PLIIx or DOLBY PLII

- Cinema** : This mode is suited for movie sources.
Music : This mode is suited for music sources.
Game : This mode is suited for games.

Pro Logic : This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, "DOLBY PL" is displayed.

☐ DTS NEO:6

- Cinema** : This mode is suited for movie sources.
Music : This mode is suited for music sources.

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

In the case of standard playback of multi channel sources, the AVR-1909 recognizes the format of the multi-channel audio input signal and automatically operates the appropriate decoder for surround sound.

[Selectable items]

STANDARD :

Any of the surround modes in the “Display” column in the following table.

The mode changes depending upon factors such as the

- Input signal
- Whether or not surround back speakers are being used.

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

- *1 : This is displayed when the input signal is “DTS-ES Matrix 6.1” and the AVR-1909’s “AFDM” setting is set to “ON”.
- *2 : This is displayed when the input signal is “DTS-ES Discrete 6.1”.
- *3 : This is displayed when the input signal is “DTS 96/24”.
- *4 : When a signal is input, the HD AUDIO indicator lights.



For details, see pages 68, 69.

② DSP Simulation Playback

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

The surround parameters can be adjusted (✎ page 66, 67) to achieve an even more realistic, powerful sound field.

Selecting the surround mode

Select by turning <SELECT/ENTER> or pressing [DSP SIMULATION].

[Selectable items]

5CH / 7CH STEREO	*1 : 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	*2 : This mode is for playing monaural movie sources with surround sound.
VIDEO GAME	: This mode is suited for achieving surround sound with video games.
MATRIX	: This mode lets you add a sense of expansion to stereo music sources.
VIRTUAL	: This mode is for enjoying surround effects using only the front speakers or headphones.

*1: “5CH STEREO” is displayed when “Surround Parameter” – “SB CH Out” is “OFF”, and “Amp Assign” is set to except “7.1ch” (✎ page 29, 40, 41).

*2: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.



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

NOTE

When the input signal is DOLBY TrueHD, DOLBY DIGITAL Plus, DTS-HD you cannot select DENON original surround mode.

③ Direct Playback

Selecting the mode

Select by turning <SELECT/ENTER> or pressing [DIRECT/STEREO].

[Selectable items]

DIRECT :

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

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

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



For details, see page 69.

④ Stereo Playback

Selecting the mode

Select by turning <SELECT/ENTER> or pressing [DIRECT/STEREO].

[Selectable items]

STEREO :

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



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



Operating from the main unit

Use **<SELECT/ENTER>** to select the surround mode.

During PCM (2ch) / Analog / DOLBY DIGITAL (2ch)



During Digital (Multi channel)



Playback in the PURE DIRECT Mode

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

Press **[PURE DIRECT]**.



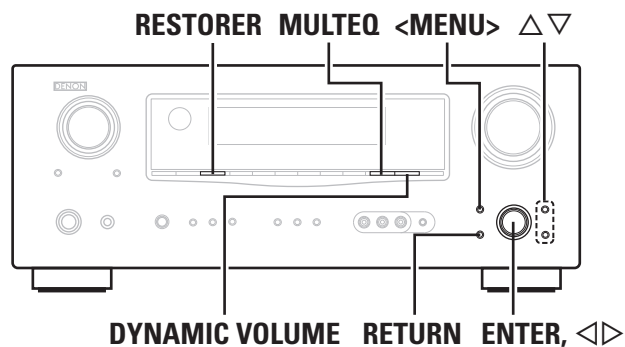
- To cancel, press **[PURE DIRECT]** again.
- When in the **PURE DIRECT** mode, the on-screen display is not displayed and the display on the main unit is turned off.
- If the HDMI input connector is selected, video outputs are output in the **PURE DIRECT** mode.
- The channel level and surround parameters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

Parameter

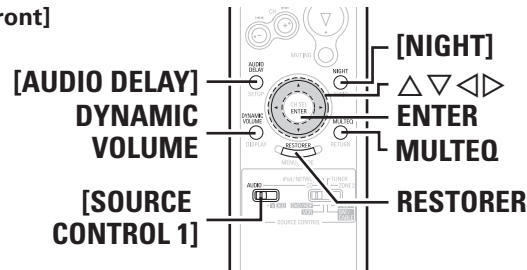


Symbols used to indicate buttons in this manual

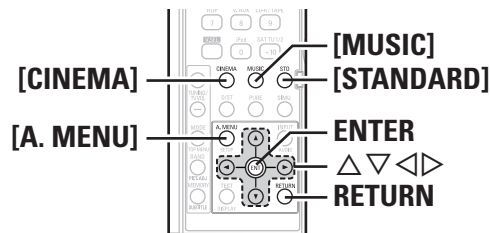
- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**



[Front]



[Rear]



Adjusting the parameters

1 Press **<MENU>** or **[A.MENU]**.

The menu is displayed.

※ To operate from the remote control unit, be sure to set the **[SOURCE CONTROL 1]** to "AUDIO".

2 Press **Δ ∇** to select "Parameter", then press **ENTER**.

3 To change the setting:

Press **Δ ∇** to select the item you want to change, then press **<Δ> <∇>** to change the setting.

※ To return to the previous item, press **RETURN**.

※ Select "Default Yes", then press **<Δ>** to reset to the default setting.

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

□ To exit adjustment

Press **<MENU>** or **[A.MENU]** during adjustment.

Surround Parameter

Adjust surround sound parameters.

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

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

For details of which parameters can be adjusted in each surround mode, see “Surround Modes and Parameters” (page 66, 67).

Surround Parameter

- 1 Mode
- 2 Cinema EQ
- 3 Dynamic Range Control
- 4 Dynamic Range Compression
- 5 LFE
- 6 Center Image
- 7 Panorama
- 8 Dimension
- 9 Center Width
- 10 Delay Time
- 11 Effect Level
- 12 Room Size
- 13 AFDM (Auto Flag Detect Mode)
- 14 SB CH Out
- 15 SUBWOOFER ATT
- 16 Subwoofer
- Tone
 - 17 Tone Control
 - 18 Bass
 - 19 Treble
- Audyssey Settings
 - 20 MultEQ
 - 21 Dynamic EQ
 - 22 Dynamic Volume
 - 23 Setting (Dynamic Volume Setting)
- RESTORER
- Night Mode
- Audio Delay

Menu screen

4. Parameter
- 1. Surround Parameter
 - 2. Tone
 - 3. Audyssey Settings
 - 4. RESTORER
 - 5. Night Mode
 - 6. Audio Delay

Surround Parameter

Adjust surround sound parameters.

The adjustable parameters differ for the different surround modes (page 66, 67).

1 Mode

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

In the PLIIx or PLII mode

[Selectable items]

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

In the DTS NEO:6 mode

[Selectable items]

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



Operating from the remote control unit

“Cinema” mode and “Music” mode crossover operation is executed with the remote control unit.

Press **[CINEMA]** or **[MUSIC]**.



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

2 Cinema EQ

Soften the treble range of movie soundtracks for better understanding.

[Selectable items]

- ON** : “Cinema EQ” is used.
- OFF** : “Cinema EQ” is not used.

3 Dynamic Range Control

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

[Selectable items] Auto Low Mid High OFF



This can be set in the Dolby TrueHD mode.

4 Dynamic Range Compression

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

[Selectable items]

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



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

5 LFE

Adjust the low-frequency effects level (LFE).

[Variable range] -10dB ~ 0dB



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

- Dolby Digital sources : “0 dB”
- DTS movie sources : “0 dB”
- DTS music sources : “-10 dB”

6 Center Image

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

[Variable range] 0.0 ~ 0.3 ~ 1.0

7 Panorama

Assign front L/R signal also to surround channels, for wider sound. If the surround effect seems weak, set “Panorama” to “ON”.

[Selectable items] ON OFF

8 Dimension

Shift sound image center to front or rear, to adjust playback balance.

[Variable range] 0 ~ 3 ~ 6

9 Center Width

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

[Variable range] 0 ~ 3 ~ 7

10 Delay Time

Adjust delay time to control sound stage size.

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

11 Effect Level

Adjust the strength of the surround effect.

[Variable range] 1 ~ 10 ~ 15



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

12 Room Size

Determine size of acoustic environment.

[Selectable items]

- Small : Simulate acoustics of a small room.
- Med.S : Simulate acoustics of a medium-small room.
- Medium : Simulate acoustics of a medium room.
- Med.L : Simulate acoustics of a medium-large room.
- Large : Simulate acoustics of a large room.

NOTE

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

13 AFDM (Auto Flag Detect Mode)

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

[Selectable items] ON OFF

Example : Playing Dolby Digital software (with EX flag)

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



- Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when “AFDM” is set to “ON”, set “SB CH Out” to “MTRX ON” or “PLIIx CINEMA”.
- When the “Amp Assign” setting is “7.1ch”, and using the surround back speakers, you can set “AFDM”.

14 SB CH Out (for Multi-channel sources)

Select playback mode for surround back channels.

[Selectable items]

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

- *1: This can be selected when “Surround Back Speaker” is set to “2spkrs” at the menu “Manual Setup” – “Speaker Setup” – “Speaker Configuration” setting (🔍 page 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.



Settings can also be made when [STANDARD] is pressed.
When using surround back speakers, adopt the following settings.
① Adopt “7.1ch” (Default) for the “Amp Assign” setting.
② Adopt a setting other than “OFF” for the “SB CH Out” setting of “Surround Parameter”.

14 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.

15 SUBWOOFER ATT

Attenuate subwoofer level when using EXT. IN mode.

[Selectable items]

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



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

16 Subwoofer

Turn subwoofer output on and off.

[Selectable items]

- ON** : The subwoofer is used.
- OFF** : The subwoofer is not used.

Tone

Adjust the tonal quality of the sound.

17 Tone Control

Turn tone adjustments off.

[Selectable items]

- ON** : Allow tone adjustment (treble, bass).
- OFF** : Playback without tone adjustment.



The tone cannot be adjusted when in the DIRECT mode.

NOTE

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

18 Bass

Adjust low frequency range (bass).

[Variable range] **-6dB** ~ **0dB** ~ **+6dB**

19 Treble

Adjust high frequency range (treble).

[Variable range] **-6dB** ~ **0dB** ~ **+6dB**



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

Audyssey Settings

Select MultEQ, Dynamic EQ and Dynamic Volume.

20 MultEQ

Select the type of correction desired from the following list:

[Selectable items]

- Audyssey** : Optimize frequency response of all speakers.
- Audyssey Byp. L/R** : Optimize frequency response of speakers except front L and R speakers.
- Audyssey Flat** : Optimize frequency response of all speakers to flat response.
- Manual** : Apply frequency response set with "Manual EQ" (page 28).
- OFF** : Turn equalizer off.

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

Press **MULTEQ**.

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



- "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after the auto setup procedure has been performed.
- After performing "Auto Setup", the "MultEQ" setting automatically becomes "Audyssey".
- If the settings of speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected. Either perform Auto Setup again, or return to the setting after running Auto Setup with "Auto Setup" – "Parameter Check" – "Restore".
- MultEQ and Manual EQ set to "Not Used" with "Manual Setup" – "Audio Setup" – "EQ Preset" – "EQ Customize" (page 28) on the menu, cannot be selected.
- When using headphones, "MultEQ" is set to "OFF".

21 Dynamic EQ

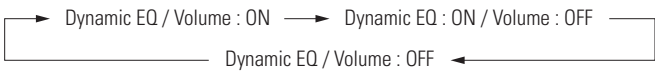
Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

[Selectable items]

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

Operating from the main unit or remote control unit

Press **DYNAMIC VOLUME**.



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

NOTE

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

Operating conditions for each function

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

20 MultEQ

21 Dynamic EQ

22 Dynamic Volume

23 Setting

22 Dynamic Volume

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

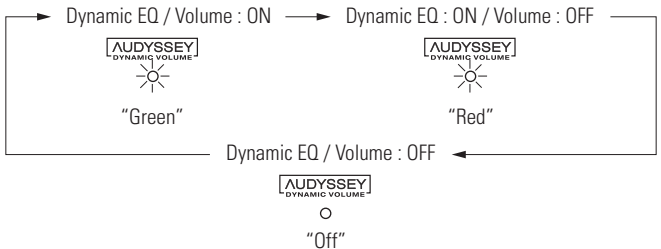
[Selectable items]

- ON** : Use Dynamic Volume.
The Dynamic Volume effect will be at the level of the “Setting”.
- OFF** : Do not use Dynamic Volume.



Operating from the main unit or remote control unit

Press **DYNAMIC VOLUME**.



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

NOTE

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

23 Setting (Dynamic Volume Setting)

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

[Selectable items]

- Midnight** : High setting affects volume the most, causing all sounds to be of equal loudness.
- Evening** : Middle setting prevents loud and soft sounds from being much louder and softer respectively than average sounds.
- Day** : Low setting provides the least adjustments to the loudest and softest of sounds.

NOTE

- “Setting” can only be set when auto setup has been performed.
- “Setting” cannot be set in the following situations.
 - If “Auto Setup” fails to be completed.
 - After running Auto Setup, when the number of used speakers has increased from the number of measured speakers.
 - If “Dynamic Volume” setting is “OFF”.

About Dynamic EQ

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

About Dynamic Volume

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

RESTORER

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

[Selectable items]

OFF :

Do not use RESTORER.

Mode1 (RESTORER 64):

Optimized mode for compressed sources with very weak highs.

Mode2 (RESTORER 96):

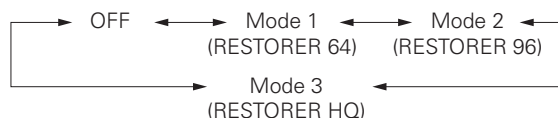
Apply suitable bass and treble boost for all compressed sources.

Mode3 (RESTORER HQ):

Optimized mode for compressed sources with normal highs.

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

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



Operating from the main unit or remote control unit

Press **RESTORER**.

About the RESTORER function

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

Night Mode

Optimized setting for late-night listening.

Set the dynamic range compression of the output audio.

[Selectable items]

OFF : Turn night mode off.

Low : Low setting.

Mid : Middle setting.

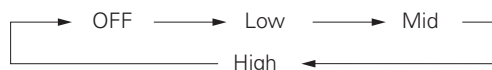
High : High setting.



Operating from the remote control unit

Press **[NIGHT]**.

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



NOTE

- When the "Dynamic EQ" setting is "ON", setting is not possible.
- When a HD-Audio (DOLBY DIGITAL Plus, DOLBY TrueHD, DTS-HD) signal is input, the "Night Mode" can not be selected.

Audio Delay

Compensate for mismatched timing between video and audio.

Delay audio.

This sets the delay time for audio signals.

[Variable range] **0 ms** ~ **200 ms**

If you wish to adjust the "Audio Delay" while playing HDMI or component video signals, press 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.)



Operating from the remote control unit

Press **[AUDIO DELAY]**, then press [\triangleleft \triangleright] to adjust audio delay.


NOTE

When operating by remote control, the onscreen display is not shown.



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

Information

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

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

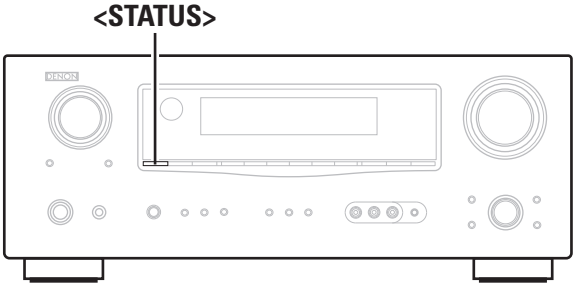
Button only on the main unit

Button only on the remote control unit

→ **BUTTON**

→ **<BUTTON>**

→ **[BUTTON]**



You can also display current status on the main unit's display each time you press **<STATUS>**.

Status

Shows information about current settings.

● Menu screen ●

5. Information

1. Status

2. Audio Input Signal

3. HDMI Information

4. Auto Surround Mode

5. Quick Select

6. Preset Station

5-1. Status

Select Source:TUNER

Name :FM/AM TU

Surround Mode:

STEREO

Input Mode :Analog

1/4

1 MAIN ZONE

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

[Items to be checked]

Select Source

Name

Surround Mode

Input Mode

Rec Select

Video Select

Source Level

MultEQ

Dynamic EQ

Dynamic Volume

Night Mode

RESTORER

 etc.

2 ZONE2

Shows information about settings for multi-zone.

[Items to be checked]

Power

Select Source

Volume Level

Audio Input Signal

Shows information about audio input signals.

● Menu screen ●

5. Information

1. Status

2. Audio Input Signal

3. HDMI Information

4. Auto Surround Mode

5. Quick Select

5-2. Audio Input Signal

Surround Mode:

DOLBY DIGITAL EX

SIGNAL:Dolby Digital

fs :48kHz

Format:3/2/.1

Offset:-4dB

[Items to be checked]

Surround Mode

:

The currently set surround mode is displayed.

SIGNAL

:

The input signal type is displayed.

fs

:

The input signal's sampling frequency is displayed.

Format

:

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

Offset

:

The dialogue normalization correction value is displayed.

Flag

:

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

Dialogue normalization function

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



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

HDMI Information

Shows information about HDMI input signals and monitor.

● Menu screen ●

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

5-3. HDMI Signal Info.

Resolution
480p

Color Space
RGB 4:4:4

Pixel Depth
8bits



5-3. HDMI Monitor Info.

Interface
HDMI

Support Resolution
480i/p
576i/p
1080i: 50Hz/60Hz
720p: 50Hz/60Hz
1080p: 50Hz/60Hz
1080p: 24Hz

1 HDMI Signal Information

The HDMI input signal information is displayed.

[Items to be checked]

Resolution Color Space Pixel Depth

2 HDMI Monitor Information

The HDMI monitor information is displayed.

[Items to be checked]

Interface Support Resolution

Auto Surround Mode

Shows information about auto surround mode settings.

The surround mode for which the last memory function was used for the different input signal types is displayed.

● Menu screen ●

5. Information

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

5-4. Auto Surround Mode

[Analog] [PCM]
2CH: STEREO

[Digital]
2CH: DOLBY PLIIx cinema
5. 1CH: DOLBY/DTS SURROUND

[Multi ch]
: MULTI CH IN

[Items to be checked]

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

Quick Select

Shows information about quick select settings.

● Menu screen ●

5. Information

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

5-5. Quick Select

1. Quick Select 1
2. Quick Select 2
3. Quick Select 3

[Items to be checked]

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



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

Preset Station

Shows information about preset stations.

● Menu screen ●

5. Information

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

5-6. Preset Station

A1FM 87.50MHz
A2FM 89.10MHz
A3FM 98.10MHz
A4FM 108.00MHz
A5FM 90.10MHz
A6FM 90.10MHz
A7FM 90.10MHz
A8FM 90.10MHz



[Input source]

TUNER

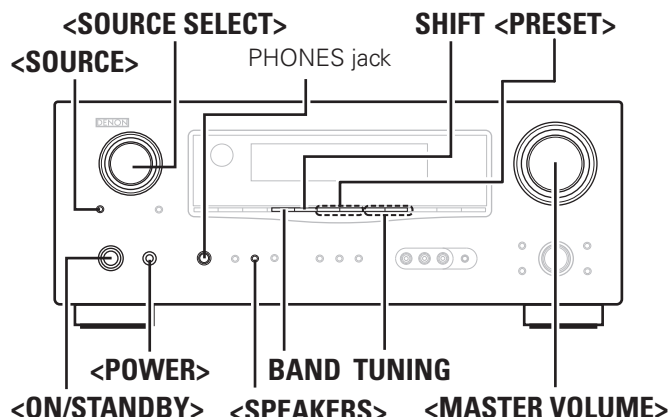
[Items to be checked] A1 ~ G8

Playback



Symbols used to indicate buttons in this manual

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



[Front]

[Rear]

Preparations

Turning the Power On

1 Press <POWER>.

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

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

The power indicator flashes green and the power turns on.

※ Also press **SOURCE SELECT** when in standby mode, the power turns on. In this case the input source is selected by remote control unit.

※ Also press **[QUICK SELECT]** when in standby mode, the power turns on. In this case Quick Select is selected.

Turning the Power Off

① Press <ON/STANDBY> or [OFF].

The power is set to the standby mode.

② Press <POWER>.

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

NOTE

- Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, either press **<POWER>** to turn off the power, or unplug the power cord from the power outlet.
- When the multi-zone power is switched on, and you want to switch off the main zone power, press **[OFF]**.

Selecting the Input Source

Select the source using **SOURCE SELECT**.

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



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

Operations During Playback

Adjusting the Master Volume

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

[Variable range] --- -80.0dB ~ 18.0dB

NOTE

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

Turning Off the Sound Temporarily (Muting)

Press **[MUTING]**.



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

Listening with Headphones

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

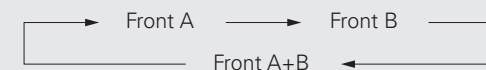
The sound from the speakers and pre-out connectors is automatically cut.

NOTE

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

Switching the front speakers

Press **<SPEAKERS>**.



NOTE

When you set to "Custom" with "Front Speaker Setup", you cannot operate **<SPEAKERS>** (page 26).

Playing Video and Audio Equipment

Basic Operation

1 Prepare the equipment.

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

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

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



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

Listening to FM/AM Broadcasts

Basic Operation

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

2 Set **[SOURCE CONTROL 1]** to "AUDIO" and **[SOURCE CONTROL 2]** to "TUNER". (page 56 "Remote Control Unit Operations")

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

4 Tune in the desired broadcast station.

- ① **To tune in automatically (Auto Tuning)**
Press **[MODE]** to light the "AUTO" indicator on the display, then use **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.



- 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 (default : 30 sec) for which the on-screen display are displayed can be set at menu "Manual Setup" – "Option Setup" – "On-Screen Display" (page 30).
Press $\Delta \nabla \triangleleft \triangleright$ to return to the original screen.

Presetting Radio Stations (Preset Memory)

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

1 Tune in the broadcast station you want to preset.

2 Press **[MEMORY]**.

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

4 Press **<PRESET>** or **[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" (page 33).

NOTE

Preset stations are erased by overwriting them.

Listening to Preset Stations

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

2 Press **<PRESET>** or **[CHANNEL + -]** to select the desired preset channel (1 to 8).

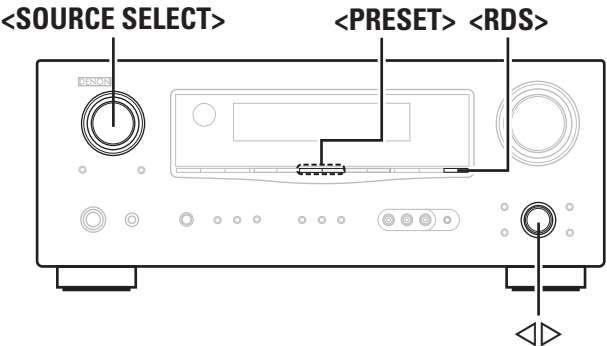
☐ Default settings

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

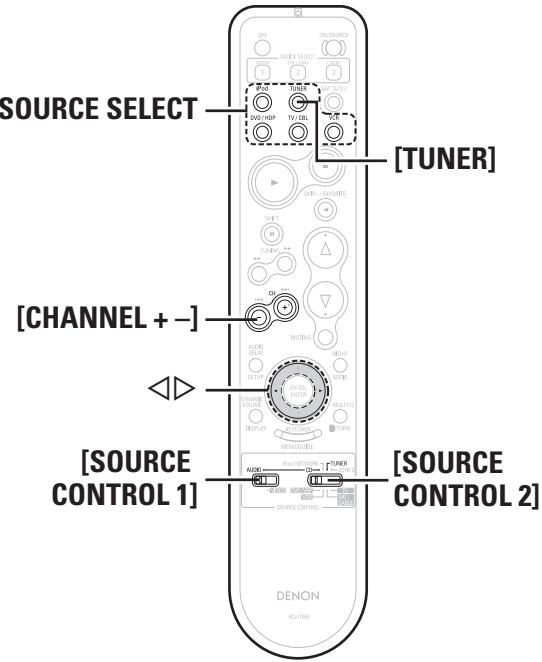


Symbols used to indicate buttons in this manual

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



[Front]



RDS (Radio Data System)

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

Program Type (PTY)

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

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

Traffic Program (TP)

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

Radio Text (RT)

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

NOTE

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

RDS Search

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

- 1 Either turn **<SOURCE SELECT>** or press **[TUNER]** to select **“TUNER”**.
- 2 Set **[SOURCE CONTROL 1]** to **“AUDIO”** and **[SOURCE CONTROL 2]** to **“TUNER”**.
(☞ page 56 “Remote Control Unit Operations”)
- 3 Press **<RDS>** to select **“RDS”**.
- 4 Press **<PRESET>** or **[CHANNEL+ -]**.
The search for RDS stations begins automatically.
※ If no RDS stations are found with the above operation, all the reception bands are searched.
※ When a broadcast station is found, that station's name appears on the display.
- 5 To continue searching, repeat steps 2 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 [SOURCE CONTROL 1] to "AUDIO" and [SOURCE CONTROL 2] to "TUNER".

( page 56 "Remote Control Unit Operations")

3 Press <RDS> to select "PTY".

4 Watching the display, press $\Delta \nabla$ to call out the desired program type.

5 Press <PRESET> or [CHANNEL+ -].

PTY search begins automatically.

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

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

6 To continue searching, repeat steps 2 to 4.

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

TP Search

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

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

2 Set [SOURCE CONTROL 1] to "AUDIO" and [SOURCE CONTROL 2] to "TUNER".

( page 56 "Remote Control Unit Operations")

3 Press <RDS> to select "TP".

4 Press <PRESET> or [CHANNEL+ -].

TP search begins automatically.

※ If no TP station is found with the above operation, all the reception bands are searched.

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

5 To continue searching, repeat steps 2 to 3.

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

RT (Radio Text)

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

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

2 Set [SOURCE CONTROL 1] to "AUDIO" and [SOURCE CONTROL 2] to "TUNER".

( page 56 "Remote Control Unit Operations")

3 Press <RDS> to select "RT".

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

※ To turn the display off, press $\triangleleft \triangleright$.

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

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

• Do not operate anything for 15 seconds.

• When setting RT, press <RDS>.

Listening to Music

1 Use \triangle ∇ to select the menu, then press **ENTER** or \triangleright to select the music file to be played.

2 Press **ENTER** or \triangleright .
Playback starts.

☐ Stopping playback temporarily

During playback, press **ENTER** or \triangleright .

Press again to resume playback.

☐ Fast-forwarding or fast-reversing

During playback, either press and hold [\ll] (to fast-reverse) or [\gg] (to fast-forward).

☐ To cue to the beginning of a track

During playback, either press [\ll] (to cue to the previous track) or [\gg] (to cue to the next track).

☐ To stop

During playback, either press and hold **ENTER** or press \blacksquare .

☐ Playing repeatedly

Press [**TUNING -**].

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

MENU : "Input Setup" – "iPod" – "Repeat Mode" (🔍 page 36)

☐ Shuffling playback

Press [**TUNING +**].

• When DENON control dock for iPod ASD-1R or ASD-11R is connected

[Selectable items] **Albums** **Songs** **OFF**

• When DENON control dock for iPod ASD-3N or ASD-3W is connected

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

MENU : "Input Setup" – "iPod" – "Shuffle Mode" (🔍 page 36)



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

Viewing Still Pictures or Videos on the iPod

Photo and video data on the iPod can be viewed on the monitor. Only for iPod equipped with slideshow or video functions. (When using an ASD-1R or ASD-11R)

1 Press and hold [**MODE**] to set the Remote mode.
"Remote iPod" is displayed on the AVR-1909's display.

2 Watching the iPod's screen, use \triangle ∇ to select "Photos" or "Videos".

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



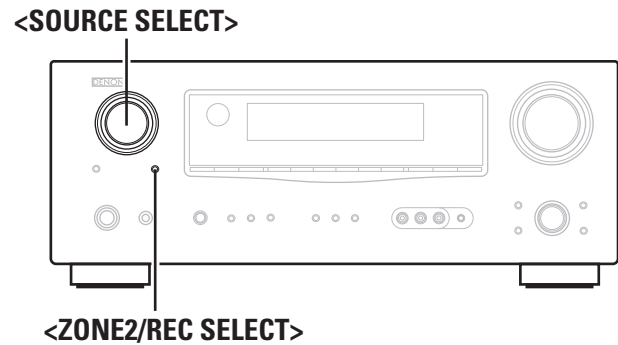
- "TV Out" at the iPod's "Slideshow Settings" or "Video Settings" must be set to "On" in order to display the iPod's photo data or videos on the monitor. For details, see the iPod's operating instructions.
- When viewing an iPod video file, select "iPod" – "Video" in browse mode. (When using an ASD-3N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

NOTE

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

Other Operations and Functions

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



Other Operations

Recording on an External Equipment (REC OUT mode)

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

- 1 Press <ZONE2/REC SELECT>.**
"ZONE2 Source" is shown on the display.
- 2 Turn <SOURCE SELECT> until "RECOUT Source" is displayed.**
The "REC" indicator lights.

ZONE2 Source ↔ ZONE2 TUNER ↔ ↔ ZONE2 V.AUX

↑ ↓

RECOUT V.AUX ↔ ↔ RECOUT TUNER ↔ RECOUT Source
- 3 Turn <SOURCE SELECT> to choose the input source to be recorded.**
- 4 Play the program source.**
For operating instructions, refer to the respective equipment's operating instructions.
To record FM or AM broadcasts, select the broadcast (📻 page 47).
- 5 Start recording.**
For operating instructions, refer to the respective equipment's operating instructions.

-
- To cancel, press **<ZONE2/REC SELECT>**, then turn **<SOURCE SELECT>** until "ZONE2 Source" is displayed.
 - Make a test recording before starting the actual recording.
 - Sources selected with the REC OUT mode are output from ZONE2 as well.
 - In the REC OUT mode, the remote control unit's ZONE2 mode buttons cannot be operated.

- NOTE**
- 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

HDMI Control Function

When AVR-1909 is connected to a TV and player compatible with HDMI control function, you can perform the following operations. Settings other than AVR-1909 settings must be made on the respective devices. (Check the operating instructions of each device for details.)

- AVR-1909 power off can be linked to the TV power off step. When you set "Output audio from amp" in the TV audio output setup operation, you can switch the amp power on.
- You can switch audio output devices with a TV operation. (When outputting from the TV speakers, output switches from speakers connected to AVR-1909).
- You can adjust AVR-1909 volume in the TV volume adjustment operation.
- You can switch AVR-1909 input source through linkage to TV input switching.
- When playing the player, the AVR-1909 input function switches to the function of that player.

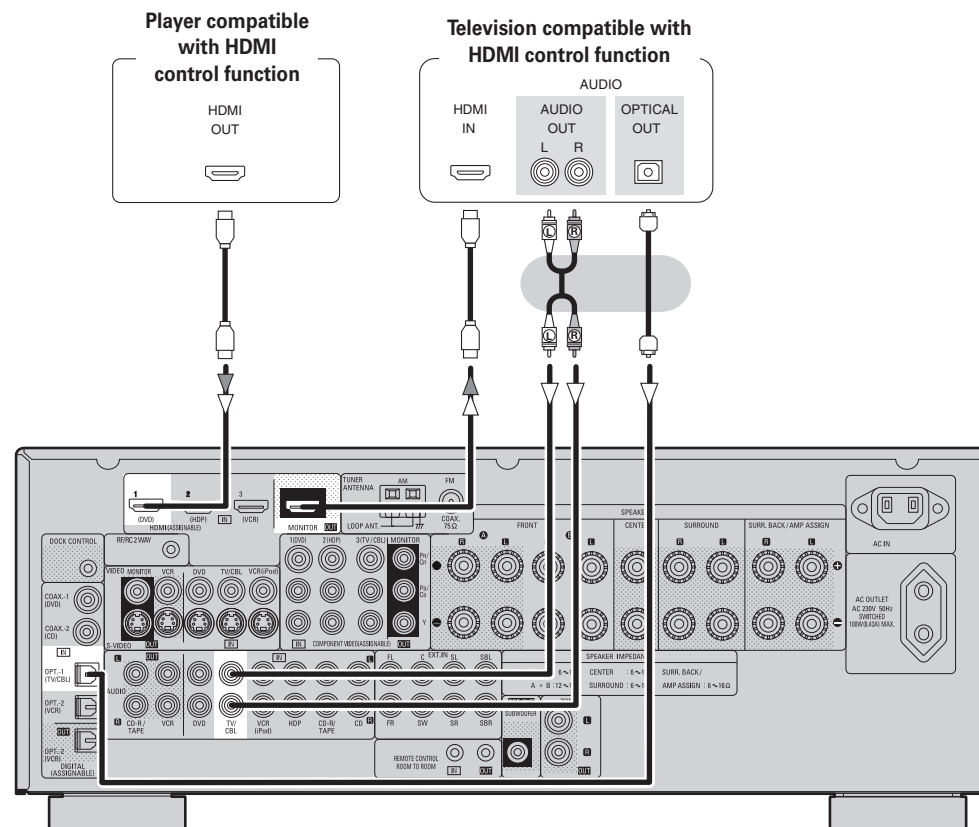


- When you want to listen to TV audio by AVR-1909, connect optical digital or analog.
- If the TV you are using has both connection jacks, use the optical digital connection.
- When using these functions set as follows: menu "Manual Setup" – "HDMI Setup" – "HDMI Control" set to "ON" (see page 26).

NOTE

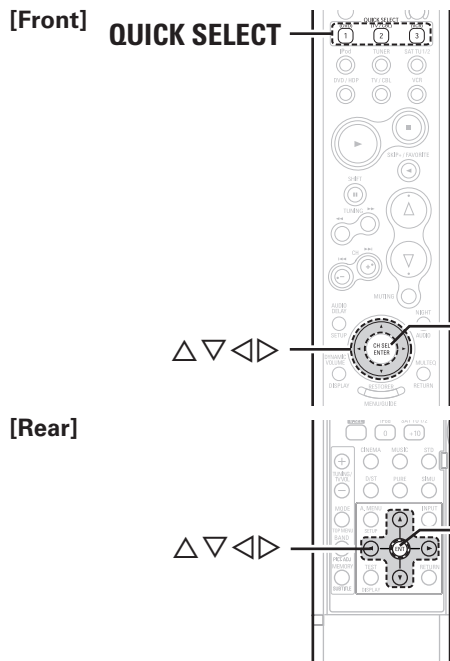
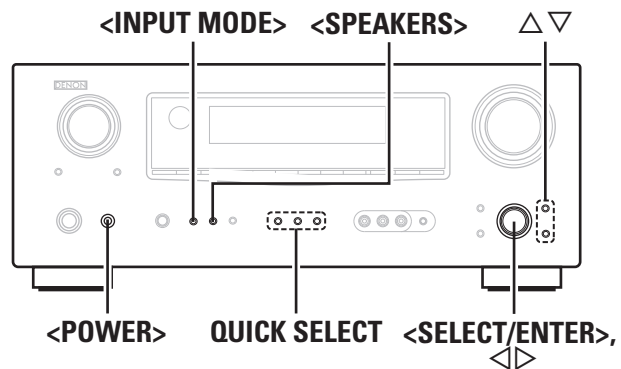
When using the HDMI control function, do not assign HDMI input to "TV/CBL" by setting "Input Setup" – "Assign" – "HDMI In" in the menu.

Connections



Symbols used to indicate buttons in this manual

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



Operations

- 1 Connect the HDMI to the AVR-1909 with equipment compatible with the HDMI control function (page 53).
- 2 Put the power on for all the equipment connected to the HDMI.
- 3 Check the settings for all the equipment connected to the HDMI and make HDMI available to them.
 ※ Please consult the operating instructions for the connected equipment to check the settings.
 ※ Steps 1~3 do not have to be repeated once started.
 ※ Carryout steps 2 and 3 should any of the equipment be plugged out.
- 4 Switch the television input to the HDMI connected to the AVR-1909.
- 5 Switch the AVR-1909 input to the HDMI input source and check if the picture from the player is ok.
- 6 Put the television power on standby and check if the AVR-1909 goes into standby.



- If the AVR-1909 does not work please check the following.
- Is the menu "Manual Setup" – "HDMI Setup" – "HDMI Control" (page 26) set to "ON"?
 - Is the menu "Manual Setup" – "HDMI Setup" – "Power Off Control" (page 26) set to "ON"?
 - Is the control function used for the television HDMI properly set? (Check the television operating instructions for details.)
 - Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat step's 2 and 3.
 - Menu "Input Setup" – "Assign" – "HDMI In" (page 35) setting has changed.
 - There is a change to the connection between the equipment and the HDMI, or an increase in equipment.

NOTE

When you power off AVR-1909, the HDMI control function does not operate. Either power on or set to standby.

Channel Level

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

- 1 Press **<SELECT/ENTER>** or **[CH SELECT/ENTER]**.

Channel Volume			
FL	◀ 0. 0 dB ▶	SR	0. 0 dB
C	0. 0 dB	SBR	0. 0 dB
FR	0. 0 dB	SBL	0. 0 dB
SW	0. 0 dB	SL	0. 0 dB
Fader			
FRONT ◀: ▶ REAR			

- 2 Use **Δ ∇**, **<SELECT/ENTER>** or **[CH SELECT/ENTER]** to select the speaker.

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

- 3 Use **◀ ▶** to adjust the volume.

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

NOTE

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

Fader Function

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

- 1 Press **<SELECT/ENTER>** or **[CH SELECT/ENTER]**.

- 2 Press **Δ ∇**, **<SELECT/ENTER>** or **[CH SELECT/ENTER]** to select "Fader".

- 3 Use **◀ ▶** to adjust the volume of the speakers.
 (◀: front, ▶: rear)



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

Quick Select Function

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

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

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

[Quick Select Defaults]

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



- To call out the settings, press **QUICK SELECT** at which the desired settings were stored.
- The Quick Select name can be changed (🔧 page 31).

NOTE

Input sources stored with the quick select function cannot be selected if they have been deleted at menu “Manual Setup” – “Option Setup” – “Source Delete” (🔧 page 30). In this case, store them again.

Personal Memory Plus Function

This function sets the settings (input mode, surround mode, HDMI output mode, MultEQ, Dynamic EQ, Dynamic Volume, audio delay etc.) last selected for the individual input sources.

When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.



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

Last Function Memory

This stores the settings as they were directly before the standby mode was set.

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

Backup Memory

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

Resetting the Microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed.

When the microprocessor is reset, all the settings are reset to their default values.

1 Turn off the power using **<POWER>**.

2 Press **<POWER>** while simultaneously pressing **<INPUT MODE>** and **<SPEAKERS>**.

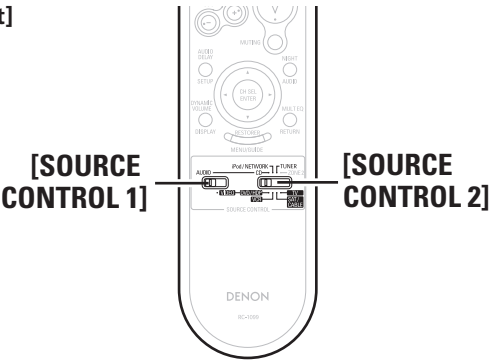
3 Once the display starts flashing at intervals of about 1 second, release the two buttons.



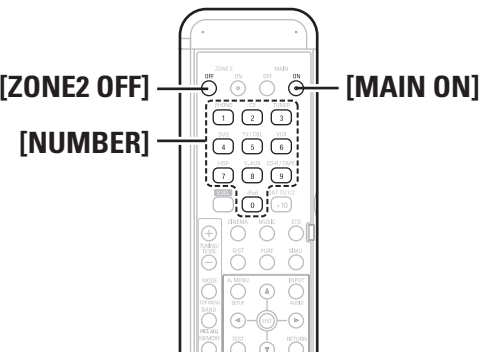
If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

Remote Control Unit Operations

[Front]



[Rear]



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

Operating DENON Audio Components

- 1 Set **[SOURCE CONTROL 1]** to “AUDIO”.
- 2 Set **[SOURCE CONTROL 2]** to the position for the component to be operated (CD, iPod/NETWORK or TUNER).
- 3 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.



- 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: DVD/HDP and SAT/CABLE.
- VDP (Video Disc Player) can be preset when **[SOURCE CONTROL 2]** is set to “DVD/HDP”.

Presetting

- DENON and other makes of components can be operated by setting the preset memory.
- Operation is not possible for some models.

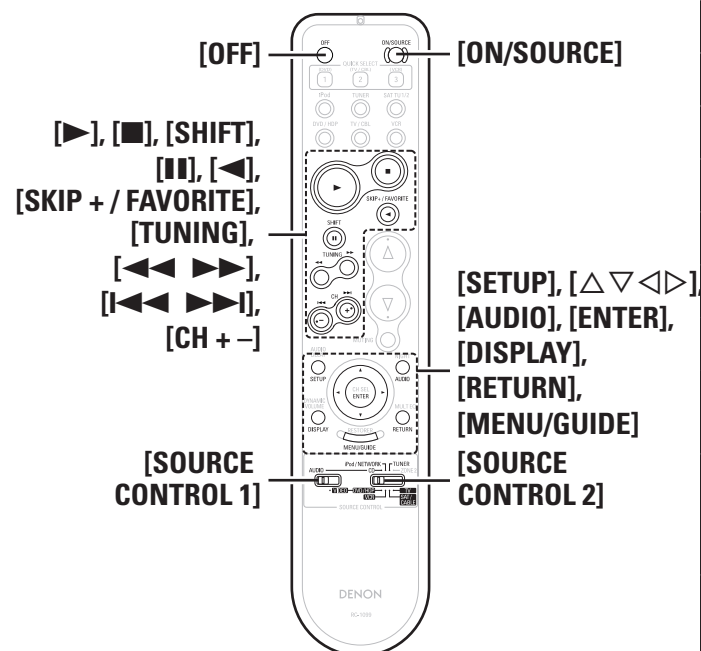
- 1 Set **[SOURCE CONTROL 1]** to “AUDIO” or “VIDEO”.
※ Set to the AUDIO side for the CD position, and to the VIDEO side for the DVD/HDP, VCR, SAT/CABLE or TV position.
- 2 Set **[SOURCE CONTROL 2]** to the component to be registered.
- 3 Press **[ZONE2 OFF]** and **[MAIN ON]** at the same time.
The indicator starts flashing.
- 4 Press **[NUMBER]** and input the 3-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (108 End of this manual).
- 5 To store the codes of another component in the memory, repeat steps 1 to 4.

Operating Preset Components

- 1 Set **[SOURCE CONTROL 1]** to “AUDIO” or “VIDEO”.
※ Set to the AUDIO side for the CD position, and to the VIDEO side for the DVD/HDP, VCR, SAT/CABLE or TV position.
- 2 Set **[SOURCE CONTROL 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.

Functions of Buttons by Component

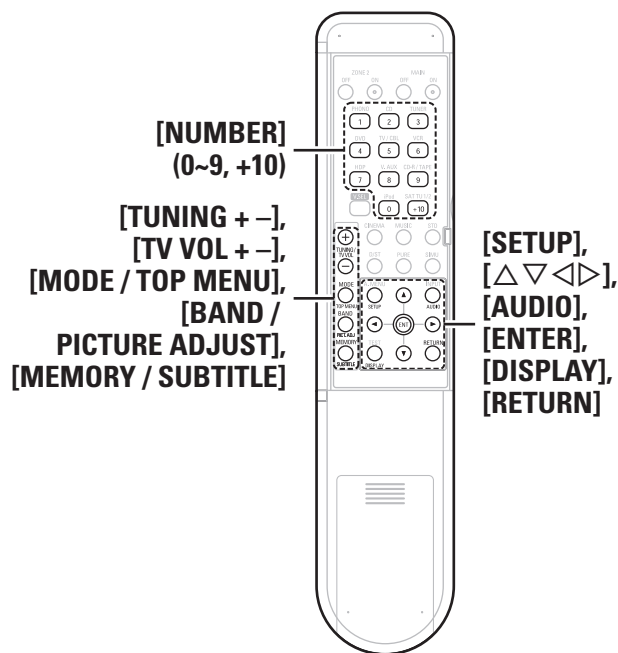
□ Front



Device operated	CD Player	iPod	Tuner	DVD Player	Blu-ray Disc Player	Video Disc Player (VDP)	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)
SOURCE CONTROL 1	AUDIO			VIDEO						
SOURCE CONTROL 2	CD	iPod/NETWORK	TUNER	DVD / HDP			VCR	SAT / CABLE		TV
OFF	—	—	—	Power off	Power off	—	—	—	—	—
ON/SOURCE	—	—	—	Power on	Power on	Power on / Standby	Power on / Standby	Power on / Standby	Power on / Standby	Power on / Standby
>	Play	Play / Pause	—	Play	Play	Play	Play	Punch through	Punch through	Punch through
■	Stop	Stop	—	Stop	Stop	Stop	Stop			
SHIFT, ■	Pause	—	Shift	Pause	Pause	Pause	Pause			
◀, SKIP + / FAVORITE	Disc skip +	※ Favorites Direct	—	Disc skip	—	—	—			
TUNING, ◀◀ ▶▶	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Tuning down / up	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Switch channels (–, +)		
◀◀ ▶▶, CH + –	Auto search (cue)	Auto search (cue)	Tuner Channel – / +	Auto search (cue)	Auto search (cue)	Auto search (cue)	Switch channels (–, +)			
SETUP	—	—	—	Setup	Setup	—	—	—	—	—
△▽◀▶	—	Cursor	—	Cursor operation	Cursor operation	—	—	Cursor operation	Cursor operation	Cursor operation
AUDIO	—	—	—	Switching the audio signal	Switching the audio signal	—	—	—	—	—
ENTER	—	Enter	—	Enter setting	Enter setting	—	—	Enter setting	Enter setting	Enter setting
DISPLAY	—	—	—	Switching the display	Switching the display	—	—	Switching the display	Switching the display	Switching the display
RETURN	—	—	—	Return	Return	—	—	Return	Return	Return
MENU / GUIDE	—	—	—	Calling out the menus	Calling out the menus	—	—	Calling out the menus	Calling out the menus	Calling out the menus

※ The iPod/NETWORK's **FAVORITE** button can be operated when using a control dock for iPod ASD-3N or ASD-3W.

□ Rear



Device operated	CD Player	iPod	Tuner	DVD Player	Blu-ray Disc Player	Video Disc Player (VDP)	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)
SOURCE CONTROL 1	AUDIO			VIDEO						
SOURCE CONTROL 2	CD	iPod/ NETWORK	TUNER	DVD / HDP			VCR	SAT / CABLE		TV
NUMBER (0 ~ 9, +10)	—	—	—	Number input / Track selection	Number input / Track selection	Number input / Track selection	—	Channels	Channels	Channels
TUNING (+, -) / TV VOL (+, -)	⊕ CD Random ⊖ CD Repeat	⊕ iPod Random ⊖ iPod Repeat	⊕ Tuning up ⊖ Tuning down	⊕ DVD Random ⊖ DVD Repeat	⊕ Blu-ray Disc Random ⊖ Blu-ray Disc Repeat	⊕ TV Volume ▲ ⊖ TV Volume ▼	⊕ TV Volume ▲ ⊖ TV Volume ▼	⊕ DBS Volume ▲ ⊖ DBS Volume ▼	⊕ Cable Volume ▲ ⊖ Cable Volume ▼	⊕ TV Volume ▲ ⊖ TV Volume ▼
MODE, TOP MENU	—	Page search mode (once) and Browse/Remote mode switching (Press and hold)	Switch search modes	Calling out the menus	Calling out the top menus	—	—	Calling out the menus	Calling out the menus	Calling out the menus
SETUP	—	—	—	Setup	Setup	—	—	—	—	—
Δ ▽ ◀ ▶	—	—	—	Cursor operation	Cursor operation	—	—	Cursor operation	Cursor operation	Cursor operation
AUDIO	—	—	—	Audio	Audio	—	—	—	—	—
BAND, PICTURE ADJUST	—	※1 Top menu	FM / AM switching	Picture adjust	Picture adjust	—	—	—	—	—
ENTER	—	—	—	Enter setting	Enter setting	—	—	Enter setting	Enter setting	Enter setting
MEMORY, SUBTITLE	—	※1 Favorite memory	Preset memory	Subtitle	Subtitle	—	—	—	—	—
DISPLAY	—	—	—	Switching the display	Switching the display	—	—	Switching the display	Switching the display	Switching the display
RETURN	—	—	—	Return	Return	—	—	Return	Return	Return
Default setting (Preset code)	DENON (111)	—	—	DENON (111)	※2 DENON (121)	—	HITACHI (108)	—	ABC (007)	HITACHI (134)
Special Remarks	①	—	—	①, ②			①	①, ③		①, ③

[Special Remarks]

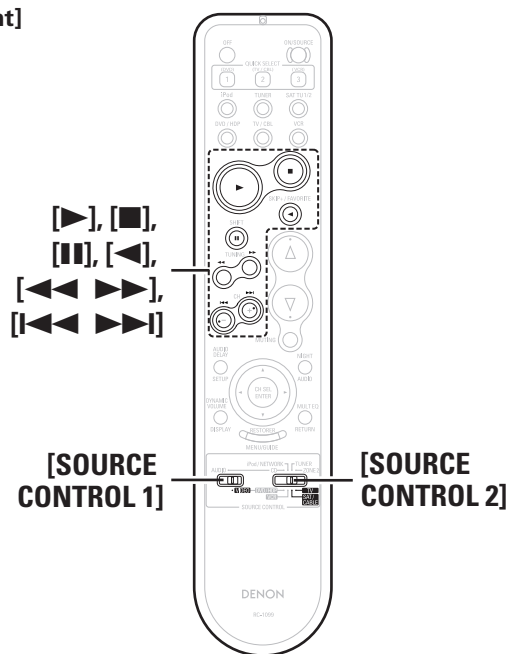
- ① Only one device can be set in the preset memory for each mode. When a new preset code is registered, the existing code is automatically erased.
- ② For some brands, the DVD remote control buttons may have different function names. Check beforehand.
- ③ One of the following buttons can be assigned to the TV and satellite receiver or cable TV: CD, iPod/NETWORK, TUNER, DVD/HDP, VCR (☞ page 59 "Punch Through Function").

※1: This button can be operated when using a control dock for iPod ASD-3N or ASD-3W.

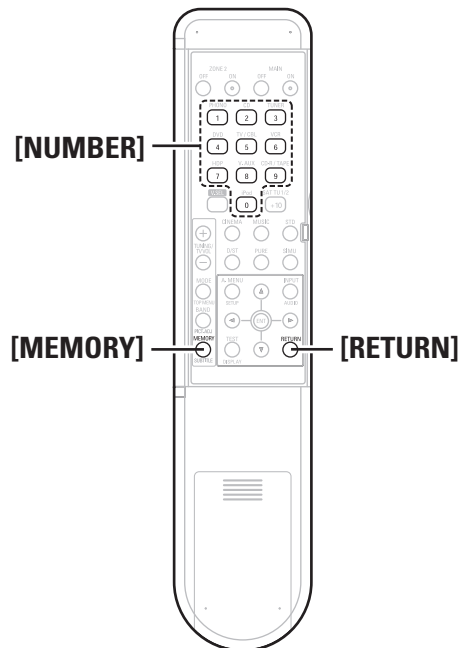
※2: The initial setting of Preset code is 111 (DVD Player).

With the Blu-ray Disc Player setting, when you have set the remote controller code to "DENON2", use the Blu-ray Disc Player preset code "121".

[Front]



[Rear]



Punch Through Function

“Punch Through” is a function allowing you to operate ►, ■, ■■, ◀, ◀◀, ▶▶, ◀◀◀ and ▶▶▶ on CD, iPod/NETWORK, TUNER, DVD/HDP or VCR components when in the SAT/CABLE or TV mode. By default, nothing is set.

- 1** Set **[SOURCE CONTROL 1]** to “VIDEO”.
- 2** Set **[SOURCE CONTROL 2]** to the component to be registered (TV or SAT/CABLE).
- 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
TUNER	3
DVD/HDP	4
VCR	5
No setting	0

Amp Assign / Multi-zone Connections and Operations

The AVR-1909 is compatible with the following types of playback:

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

NOTE

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

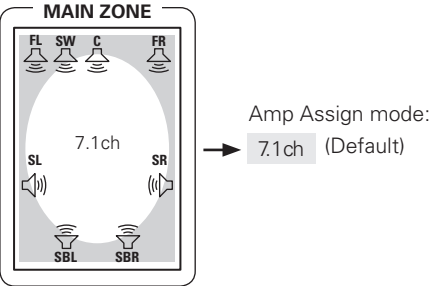
Multi-zone Settings with the Amp Assign Function

The amp assign function lets you assign the amplifiers for the different channels built into the AVR-1909 to the speaker outputs for the different zones.

Select the desired playback environment from among “Setting 1” to “Setting 3”, then set the corresponding “Amp Assign” mode at menu “Manual Setup” – “Option Setup” – “Amp Assign” (🔧 page 29).

Connect the speakers as described at “Amp Assign mode setting and speakers connected to the various speaker terminals”.

Setting 1 : ● 7.1-channel playback (Default Setting)

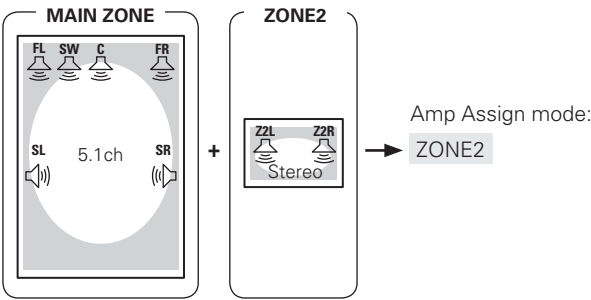


❑ Amp Assign mode setting and speakers connected to the various speaker terminals

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

- Conduct with this setting during 5.1-ch playback without multi-channel play (Setting 2).
- The surround back channel is output from the speakers connected to the SURR.BACK/AMP ASSIGN terminals.

Setting 2 : ● Multi-zone playback 5.1-channel playback + ZONE2 stereo playback



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

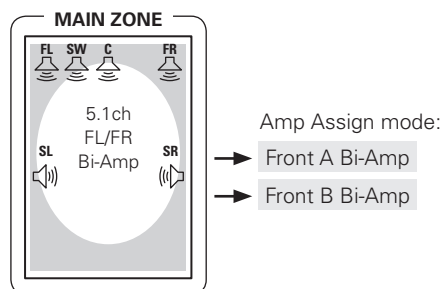
Speaker terminal / Amp Assign mode	FRONT		CENTER	SURROUND		SURROUND BACK / AMP ASSIGN	
	R	L		R	L	R	L
ZONE2	FR	FL	C	SR	SL	Z2R	Z2L

🔧 When ZONE2 power is on, the ZONE2 channel is output from speakers connected to the SURR.BACK/AMP ASSIGN terminals.

Setting 3 :

● Making bi-amp connections for the FL and FR channels in the MAIN ZONE and conducting 5.1-channel playback

(switching with other modes not possible)



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

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

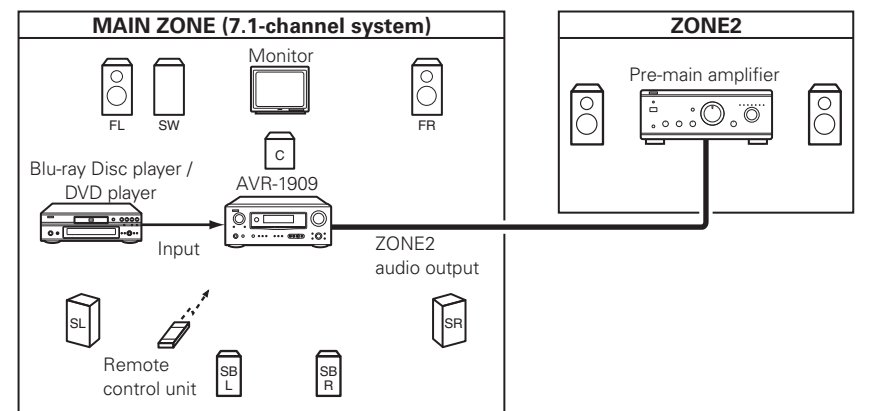


The Front A or Front B channel for Bi-Amp use is output from the speakers connected to the SURR.BACK/AMP ASSIGN terminals.

Multi-zone Settings and Operations with Zone Output

Prepare pre-main amplifiers for ZONE2.

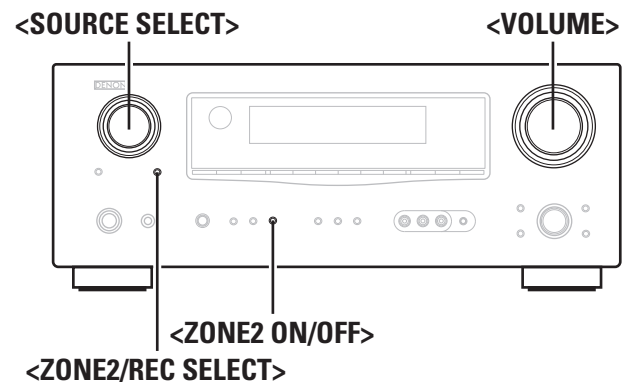
	Connectors for audio output	Audio signals
ZONE2	ZONE2 OUT	Stereo



— : Multi-zone audio cable

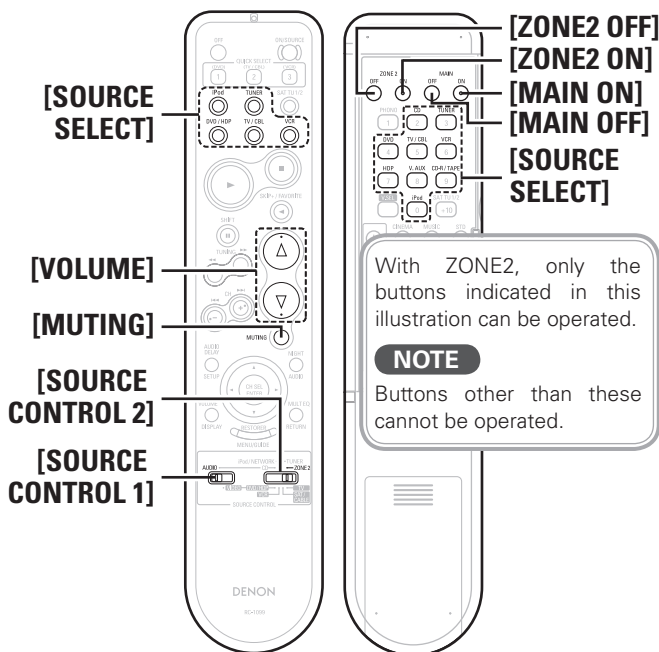
Symbols used to indicate buttons in this manual

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



[Front]

[Rear]



Multi-zone Operations

Turning the Power On and Off

[Operation on the main unit]

Press **<ZONE2 ON/OFF>**.

When the power turns on, the multi-zone indicator (**Z2**) lights on the display.

[Operation on the remote control unit]

Press **[ZONE2 ON]** or **[ZONE2 OFF]**.



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

Selecting the Input Source

[Operation on the main unit]

- ① Press **<ZONE2/REC SELECT>** and select the zone to be adjusted.
- ② Turn **<SOURCE SELECT>**.

[Operation on the remote control unit]

- ① Set **[SOURCE CONTROL 1]** to "AUDIO" and **[SOURCE CONTROL 2]** to "ZONE2".
- ② Press **[SOURCE SELECT]**.

Adjusting the Volume

[Operation on the main unit]

- ① Press **<ZONE2/REC SELECT>** and select the zone to be adjusted.
- ② Turn **<VOLUME>** to adjust.

[Operation on the remote control unit]

- ① Set **[SOURCE CONTROL 1]** to "AUDIO" and **[SOURCE CONTROL 2]** to "ZONE2".
- ② Press **[VOLUME]**.

[Variable range] --- -70dB ~ -40dB ~ 18dB



- The volume can be increased up to the value set at menu "Manual Setup" – "ZONE2 Setup" – "Volume Limit" (page 29).
- The ZONE2 volume can be adjusted only when "ZONE2" is selected at menu "Manual Setup" – "Option Setup" – "Amp Assign" (page 29).

Turning off the Sound Temporarily

- ① Set **[SOURCE CONTROL 1]** to "AUDIO" and **[SOURCE CONTROL 2]** to "ZONE2".
- ② Press **[MUTING]**.

The sound is reduced to the level set at menu "Manual Setup" – "ZONE2 Setup" – "Mute Level" (page 29).
 To cancel, either adjust the volume or press **[MUTING]** again.
 The setting is canceled when the zone's power is turned off.



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

NOTE

Digital audio signals input from the COAXIAL, OPTICAL or HDMI connectors cannot be played in multi-zone.

Other Information

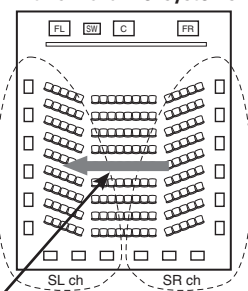
About Speaker Installation

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.

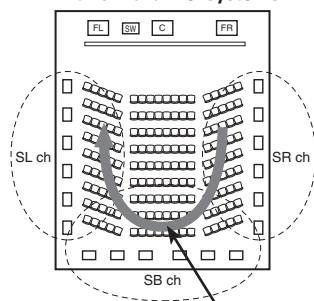
In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

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.

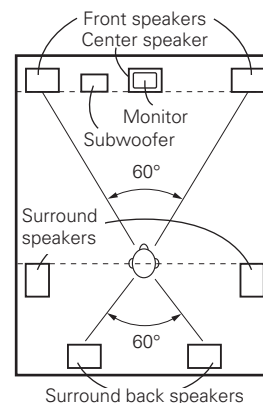
Examples of speaker layouts

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.

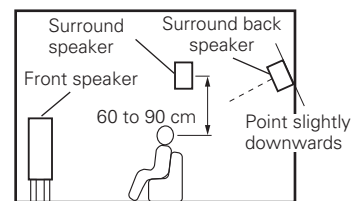
[1] Using surround back speaker(s)

① When mainly playing movies

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



[As seen from above]

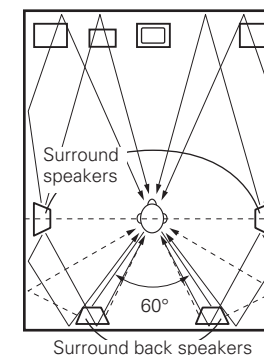


[As seen from the side]

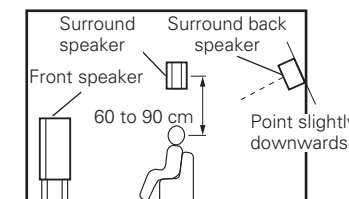
② Setting for primarily watching movies using diffusion type speakers for the surround speakers

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

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

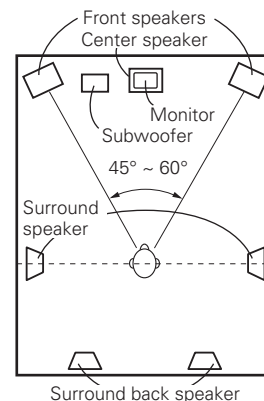


[As seen from above]

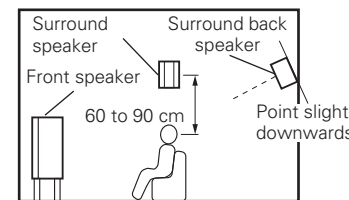


[As seen from the side]

③ When playing movies and music

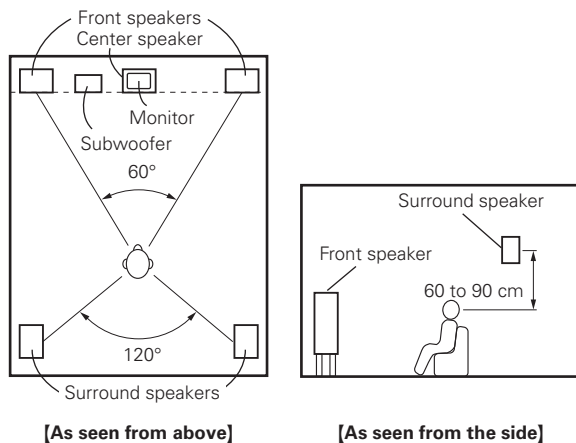


[As seen from above]



[As seen from the side]

[2] When not using surround back speakers



Surround

The AVR-1909 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Dolby Surround

Dolby Digital

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

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

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

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

Dolby Digital Plus

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

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format is compatible with a maximum sampling frequency of 96 kHz and up to 7.1-channels, so it is used for applications particularly prioritizing sound quality.

Dolby Pro Logic II

Dolby Pro Logic II is a matrix decoding technology developed by Dolby Laboratories.

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

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

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology.

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

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

Dolby Digital EX

Dolby Digital EX is a 6.1-channel surround format proposed by Dolby Laboratories that allows users to enjoy in their homes the "DOLBY DIGITAL SURROUND EX" audio format jointly developed by Dolby Laboratories and Lucas Films.

The 6.1 channels of sound, including surround back channels, provide improved sound positioning and expression of space.

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

DTS Surround

DTS Digital Surround

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

DTS-HD High Resolution Audio

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

DTS-HD Master Audio

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

DTS-ES™ Discrete 6.1

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

DTS-ES™ Matrix 6.1

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

DTS NEO:6™ Surround

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

DTS 96/24

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

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc. ©1996-2007 DTS, Inc. All Rights Reserved.

Audyssey

Audyssey MultEQ®

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

Audyssey Dynamic EQ™

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

Audyssey Dynamic Volume™

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

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



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

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 way as with DVI.

Deep Color

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

Enables increased contrast ratio.

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

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

xvYCC

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

Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

LipSync

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

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

Surround Modes and Parameters

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

○ : Signal / Adjustable

× : No signal / Not adjustable

⊙ : Turned on or off by speaker configuration setting

○ : Signal / Adjustable

× : No signal / Not adjustable

NOTE1 : This parameter is available when the menu "Parameter" – "Surround Parameter" – "Mode" is set to "Cinema" (page 39).

NOTE2 : This parameter is available when the menu "Parameter" – "Surround Parameter" – "Mode" is set to "Cinema" or "PL" (page 39).

NOTE:

*1 : When playing Dolby Digital and DTS signals.

*2 : When playing Dolby Digital, DTS and Linear PCM (multi ch).

*3 : When playing Dolby TrueHD signal.

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

○ : Adjustable
 × : Not adjustable
 NOTE3 : BASS +6 dB, TREBLE +4 dB
 NOTE4 : Can be used according to the "Audio Setup" – "EQ Preset" – "Direct Mode" setting (🔧 page 28).
 NOTE5 : Cannot be set when the "Dynamic EQ" setting is "ON" (🔧 page 42).
 NOTE6 : Cannot be set when the "MultEQ" setting is "OFF" (🔧 page 41).
 NOTE7 : Cannot be set when the "Dynamic EQ" setting is "OFF" (🔧 page 42).

Differences in Surround Mode Names Depending on the Input Signals

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

NOTE:

*1: This mode is not available when the surround back speaker setup is set to "None".

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

*3: Can be set when "Amp Assign" is set to "7.1ch".

● : Mode selectable in initial status

◎ : Mode fixed when "AFDM" is "ON"

○ : Selectable mode

× : Non-selectable mode

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

NOTE :

*1: This mode is not available when the surround back speaker setup is set to "None".

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

*3: Can be set when "Amp Assign" is set to "7.1ch".

*4: If the surround back speaker setup is set to "None", then "5CH STEREO" is displayed.

● : Mode selectable in initial status

◎ : Mode fixed when "AFDM" is "ON"

○ : Selectable mode

× : Non-selectable mode

Relationship Between Video Signals and Monitor Output

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

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

× : Not output
 *1 : On-screen display superimposed on video signal and output.
 *2 : On-screen display superimposed on S-Video signal and output.
 COMPONENT or HDMI:
 On-screen display only displayed for the **MENU** button on the main unit or the **A.MENU** button on the remote control unit.
 :Video signals are not output when the analog to HDMI convert function is set to "OFF".

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

○ : Signal input
 × : No signal

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

COMPONENT or HDMI:
 On-screen display only displayed for the **MENU** button on the main unit or the **A.MENU** button on the remote control unit.



- The MAIN ZONE video conversion function is compatible with the following format: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.
- When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-Video connector.
- When the input signal is a component 1080i or 720p signal, the signal upconverted to HDMI is output with that resolution or 1080p.
- When the input signal is a video, S-Video or component 480i, 480p, 576i or 576p signals, the signal up-converted to HDMI is output according to the setting made at "Resolution" under "Input Setup" – "Video" – "Resolution" (page 33).
- With assigned input sources "TUNER" and "iPod", when you output video with "Video Select", video output in the above table changes depending on the following settings.
 - When "Tuner Information" and "iPod Information" are other than "OFF": Superimposed S-video or Video signal is output.
 - When "Tuner Information" and "iPod Information" are "OFF": Signal output is as in the above table.
 (See page 30 for "Tuner Information" and "iPod Information" setting.)

Troubleshooting

If a problem should arise, first check the following:

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

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

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

[General]

Symptom	Cause	Countermeasure	Page
Set does not operate properly.	• External noise or interference is causing the set to malfunction.	• Reset the microprocessor.	55
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	• Check that the power plugs are securely inserted into the AVR-1909's AC inlet and the wall power outlet.	16
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty. • Device you want to play and set input source do not match. • Master volume is turned too low. • Mute mode is set. • Headphones are connected. • No digital signals are being input. • The connectors to which the digital inputs are assigned and the settable input modes do not match.	• Check the connections.	10
		• Select an appropriate input source.	46
		• Adjust the master volume to an appropriate level.	46
		• Cancel the mute mode.	46
		• Disconnect the headphones.	46
		• Select an input source for which the digital input setting has been made.	35
Display is off.	• The "Dimmer" setting is set to "OFF". • The PURE DIRECT mode is set.	• Set the input mode.	34
		• Set to something other than "OFF". • Set a surround mode other than the PURE DIRECT mode.	31 38

Symptom	Cause	Countermeasure	Page
"DOLBY DIGITAL" indicator does not appear on display.	• Blu-ray Disc player / DVD player's digital audio output setting is not proper.	• Check the Blu-ray Disc player / DVD player's audio output setting. For details, read the Blu-ray Disc player / DVD player's operating instructions.	–
Power switches off suddenly while you are using the AVR-1909, the power indicator will flash in red at intervals of approximately 2 seconds.	• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.	• Please switch off power at once, and re-apply the power after the body temperature has fallen sufficiently. • Please re-install AVR-1909 in a place having good ventilation.	10 –
Power switches off suddenly while you are using the AVR-1909, the power indicator will flash red at intervals of approximately 0.5 seconds.	• Use speakers having impedance less than that specified. • If speaker cable core wires touch each other or the core wires become disconnected from their terminals, the protection circuit will be activated in the event of core wires coming into contact with the AVR-1909 rear panel.	• Please use speakers which have the specified impedance.	10
		• Unplug the power cord, then after twisting the core wires together tightly again, or effecting termination treatments etc, please reconnect once again.	10
Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.	• The AVR-1909 amplifier circuit has failed.	• Switch off the power and please contact the DENON service adviser.	–

[Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	• Batteries are worn.	• Replace with new batteries.	3
	• You are operating outside of the specified range.	• Operate within the specified range.	4
	• Obstacle between main unit and remote control unit.	• Remove the obstacle.	4
	• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.	• Insert the batteries in the proper direction, following the polarity marks in the battery compartment.	3
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).	• Move the set to a place in which the remote control sensor will not be exposed to strong light.	4
	• The remote ID of the main unit and remote control unit do not match.	• Set "Remote ID" for the main unit to "1".	31
	• Settings do not match the remote control unit's SOURCE CONTROL switch.	• Match the settings to the remote control unit's SOURCE CONTROL switch.	56

[Audio]

Symptom	Cause	Countermeasure	Page
No sound is produced from center speaker.	• You are playing a monaural source (TV, AM radio broadcast, etc.) in the "STANDARD" (Dolby/DTS Surround) mode.	• The mode is set to something other than "STANDARD" (Dolby/DTS Surround).	37
No sound is produced from surround speakers.	• The surround mode is set to "STEREO", "DIRECT" or "PURE DIRECT".	• Set to a surround playback mode.	37, 38
No sound is produced from surround back speaker.	• The surround back speaker's power amplifier is assigned to a different channel.	• Check the setting and change it as necessary.	29
	• Surround back speaker setting is set to "None".	• Set to something other than "None".	24
	• The "Parameter" – "Surround Parameter" – "SB CH Out" settings are "OFF".	• Please set "Parameter" – "Surround Parameter" – "SB CH Out" to settings other than "OFF".	40, 41
	• Surround mode not set to a mode for 6.1- or 7.1-channel playback.	• Select a surround playback mode.	36 ~ 38

Symptom	Cause	Countermeasure	Page
No sound is produced from subwoofer.	• Subwoofer's power not turned on.	• Turn on the subwoofer's power.	–
	• The "Subwoofer" setting at "Speaker Configuration" is set to "No".	• Set to "Yes".	24
No test tones are produced when remote control unit's TEST button is pressed.	• The subwoofer is not properly connected.	• Check the connections.	10
	• The subwoofer's volume is turned off.	• Adjust the subwoofer's volume to an appropriate level.	54
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.	37
DTS sound is not output.	• Blu-ray Disc player / DVD player's audio output setting is not set to bitstream.	• Set the Blu-ray Disc player / DVD player. For details, refer to the Blu-ray Disc player / DVD player's operating instructions.	–
	• Blu-ray Disc player / DVD player is not compatible with DTS sound playback.	• Use a DTS-compatible player.	–
	• The AVR-1909's "Decode Mode" setting is set to "PCM".	• Set to the "Auto" or "DTS" mode.	34
HDMI audio signals are not output from speakers.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "TV".	• Set to "AMP".	26
No sound is output from the monitor connected with HDMI connections.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "AMP".	• Set to "TV".	26
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.	• HDMI is not connected.	• Connect the HDMI.	11, 12
	• Blu-ray Disc player's audio output setting is not set to bitstream.	• Set the Blu-ray Disc player. For details, refer to the Blu-ray Disc player's operating instructions.	–
	• Blu-ray Disc player is not compatible with DTS sound playback.	• Use a DTS-compatible player.	–

[Video]

Symptom	Cause	Countermeasure	Page
No picture appears.	<ul style="list-style-type: none"> The connections between the AVR-1909 and monitor are faulty. The monitor's input setting is wrong. 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. 	<ul style="list-style-type: none"> Check the connections. Set properly. 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. 	11 ~ 14 38
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.	—
On-screen display is not shown.		When viewing HDMI or component video signals via the AVR-1909, the on-screen display appears when the MENU button on the main unit or the A.MENU button on the remote control unit.	9
		When only HDMI or component video signals are input to the AVR-1909, the characters of the on-screen display are not displayed over the picture.	9
		The operation content display is "OFF".	30
		The main volume display is "OFF".	30
		The display during tuner operation is "OFF".	30
		The display during iPod operation is "OFF".	30
		Set "Manual Setup" – "Option Setup" – "On-Screen Display" – "Text" to "ON".	
		Set "Manual Setup" – "Option Setup" – "On-Screen Display" – "Master Volume" to "ON".	
		Set when "Manual Setup" – "On-Screen Display" – "Tuner Information" is not "OFF".	
		Set when "Manual Setup" – "On-Screen Display" – "iPod Information" is not "OFF".	

[HDMI]

Symptom	Cause	Countermeasure	Page
HDMI audio signals are not output from speakers.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "TV".	Set to "Amp".	26
No picture appears with HDMI connections.	<ul style="list-style-type: none"> The connections to the HDMI connectors are faulty. HDMI input setting is improper. The monitor is not compatible with copyright protection (HDCP). The HDMI format of the player and monitor do not match. 	<ul style="list-style-type: none"> Check the connections. Check the HDMI input setting. Connect a monitor that is compatible with copyright protection (HDCP). Match the HDMI format of the player and monitor. 	11 35 11
No sound is output from the monitor connected with HDMI connections.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "Amp".	Set to "TV".	26
When performing the following operations on a connected device, AVR-1909 has the same operations. · Power ON/OFF · Switching audio output devices · Adjust volume · Switch input source	HDMI's CEC function is operating.	Set "Manual Setup" – "HDMI Setup" – "HDMI Control" to "OFF". When you only want to operate the power on/off each device, set "Power Off Control" to "OFF".	26

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	<ul style="list-style-type: none"> The input source assigned to "iPod Dock" is not selected. Cable is not properly connected. Control dock for iPod's AC adapter is not connected to power outlet. 	<ul style="list-style-type: none"> Switch to the input source assigned at "iPod Dock". Reconnect. Plug the control dock for iPod's AC adapter into a power outlet. 	35 13 —

Specifications

Audio section

Power amplifier

Rated output:	Front (A, B): 90 W + 90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.) 120 W + 120 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) Center: 90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.) 120 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) Surround: 90 W + 90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.) 120 W + 120 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) Surround Back: 90 W + 90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.) 120 W + 120 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Output connectors:	Front: A or B 6 ~ 16 Ω/ohms A + B 12 ~ 16 Ω/ohms Center, Surround, Surround Back: 6 ~ 16 Ω/ohms
Analog	
Input sensitivity / Input impedance:	200 mV / 47 kΩ/kohms
Frequency response:	10 Hz ~ 100 kHz — +1, -3 dB (DIRECT mode)
S/N:	100 dB (IHF-A weighted, DIRECT mode)

Video section

Standard video connectors

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 connectors

Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms C (color) signal — 0.3 (PAL) /0.286 (NTSC) Vp-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 10 MHz — +1, -3 dB (when video convert set to “OFF”)

Color component video connector

Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms P _B / C _B signal — 0.7 Vp-p, 75 Ω/ohms P _R / C _R signal — 0.7 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 60 MHz — +0, -3 dB (when video convert set to “OFF”)

Tuner section

	[FM]	[AM]
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
Usable Sensitivity:	1.0 μV (11.2 dBf)	18 μV
50 dB Quieting Sensitivity:	MONO 1.6 μV (15.3 dBf) STEREO 23 μV (38.5 dBf)	
S/N (IHF-A):	MONO 77 dB (IHF-A weighted) STEREO 72 dB (IHF-A weighted)	
Total harmonic Distortion (at 1 kHz):	MONO 0.15 % STEREO 0.3 %	

General

Power supply:	AC 230 V, 50 Hz
Power consumption:	445 W 0.3 W (Standby)
Maximum external dimensions:	434 (W) x 171 (H) x 377 (D) mm
Weight:	11.4 kg

Remote control unit (RC-1099)

Batteries:	R6/AA Type (two batteries)
Maximum external dimensions:	52 (W) x 243 (H) x 21 (D) mm
Weight:	184 g (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

**List of preset codes / Liste von voreingestellten Codes / Liste de codes pré-réglés / Lista dei codici pre-regolati /
Lista de códigos pre-ajustados / Lijst van voor ingestelde codes / Förteckning över förinställda koder**

DVD Player

A	Aiwa	009
D	Denon	014, [111] *, 121
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K	Konka	012, 013
M	Magnavox	005
	Mitsubishi	004
P	Panasonic	014
	Philips	005, 015, 016, 017
	Pioneer	003, 008
S	Sanyo	018
	Sony	002, 019, 020
T	Toshiba	001, 021, 022
Z	Zenith	023

Blu-Ray Disc Player

D	Denon	[111] * (Denon 1) 121 (Denon 2)
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D	Denon	028, 029, 112
M	Magnavox	026
	Mitsubishi	028
P	Panasonic	029, 030
	Philips	026
	Pioneer	028, 031
R	RCA	032
S	Sony	033, 034, 035, 036

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A	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
	Beaumarck	087
	Broksonic	086, 093
C	Calix	088
	Candle	006, 087, 088, 089, 090
	Canon	049, 057
	Capehart	025, 055, 056, 071

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	CCE	095
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	Curtis Mathes	006, 049, 073, 080, 087, 090, 092
	Cybernax	087
D	Daewoo	025, 055, 059, 074, 089, 093, 095, 096
	Daytron	025, 055
	DBX	005, 085
	Dumont	053
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	Emerson	001, 009, 017, 027, 086, 088, 089, 092, 093, 097, 100, 101, 102, 103, 104, 117

F	Fisher	009, 028, 031, 053, 054, 091, 099, 115
G	GE	007, 011, 049, 050, 051, 052, 073, 080, 087
	Go Video	047, 048
	Goldstar	000, 006, 012, 062, 088
	Gradiente	094
	Grundig	042

H	Harley Davidson	094
	Harman Kardon	040, 062
	Hi-Q	091
	Hitachi	009, 013, 023, 026, 058, [108] *, 109, 110, 111

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	Jensen	013, 026
	JVC	004, 005, 006, 026, 029, 043, 044, 045, 046, 085

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L	Lloyd	009, 094

M	Magnavox	015, 016, 042, 049, 063, 106
	Magnin	087
	Marantz	004, 005, 006, 015, 042, 049, 085, 090
	Marta	088
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	MGN Technology	087
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	Minolta	013, 023

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	Motorola	081
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	Multitech	007, 009, 011, 087, 090, 094

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	Philco	015, 016, 049
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	Pioneer	005, 013, 029, 036, 037, 038, 045, 085
	Portland	025, 055, 090
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S	Salora	033, 041

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	Sansui	005, 026, 029, 045, 061, 085, 114

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	Comtronic	014
E	Eastern	015
G	Garrard	011
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	General Instrument	030, 031, 032
H	Hytex	006
J	Jasco	011
	Jerrold	009, 016, 017, 026, 032
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	Movie Time	019
N	NSC	019
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	Philips	011, 012, 013, 018, 021
	Pioneer	002, 003, 022
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S	Samsung	014, 023
	Scientific Atlanta	004, 024, 025
	Signal	014
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	Tocom	007, 016
	TV86	019
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F	Fisher	003, 008, 009, 010

J	JVC	018, 019
	Kenwood	011, 012, 013, 014, 017
M	Magnavox	006, 015, 035
	Marantz	016, 028, 035
	MCS	016, 024
O	Onkyo	025, 027
	Optimus	017, 020, 021, 022, 023
P	Philips	014, 032, 033, 035
	Pioneer	006, 022, 030
S	Sears	006
	Sony	023, 031
T	Teac	002, 009, 028
	Technics	016, 029, 036
W	Wards	035, 037
Y	Yamaha	038, 039, 040, 041
Z	Zenith	042

DVD preset codes / DVD-Voreinstellungscodes / Codes pré-réglés DVD / Codici di preselezione DVD / Códigos de preajuste de DVD / DVD-voorkeuzecodesFörinställda / DVD-koder			
DENON Model No. / N° de modelo / Modellnr / Modeln / Modelln	111 (default / standard / défaut / default / predeterminado / standaard / standard)		014
	DVD-900	DVD-2900	DVD-800
	DVD-700	DVD-2910	DVD-1600
	DVD-1000	DVD-2930	DVD-2000
	DVD-1400	DVD-3800	DVD-2500
	DVD-1500	DVD-3910	DVD-3000
	DVD-1710	DVD-3930	DVD-3300
	DVD-1720	DVD-A11	
	DVD-1730	DVD-A1XV	
	DVD-1740	DVD-A1	
	DVD-1910	DVD-2500BT	
	DVD-1920	DVD-3800BD	
	DVD-1930		
	DVD-1940		
	DVD-2200		
	DVD-2800		
	DVD-2800II		

[]*: Preset codes set upon shipment from the factory.
: Sie Voreinstellungscodes wurden vor der Auslieferung werkseitig eingestellt.
: Les codes pré-réglés diffèrent en fonction des livraisons de l'usine.
: I codici di pre-settaggio sono impostati in fabbrica prima della consegna.
: Los códigos vienen preprogramados de fábrica.
: Voorinstelde codes bij het verlaten van de fabriek.
: Förinställda koder har ställts in vid transporten från fabriken.

DENON

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Denon Brand Company, D&M Holdings Inc.
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