

# DENON

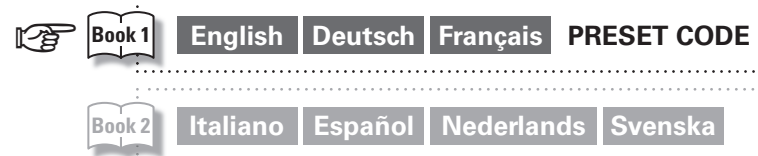
AV SURROUND RECEIVER

# AVR-2808


Owner's Manual

Bedienungsanleitung


Manuel de l'Utilisateur



☐ SAFETY PRECAUTIONS



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



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

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

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

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

• **DECLARATION OF CONFORMITY**

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 2006/95/EC, 89/336/EEC and 93/68/EEC 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, 89/336/EEC und 93/68/EEC.

• **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, 89/336/EEC et 93/68/EEC.

• **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, 89/336/EEC e 93/68/EEC. 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, 89/336/EEC y 93/68/EEC.

• **EENVORMIGHEIDSVERKLARING**

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit product, 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, 89/336/EEC en 93/68/EEC.

• **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, 89/336/EEC och 93/68/EEC.

**CAUTION:**

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

**VORSICHT:**

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

**PRECAUTION:**

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

**ATTENZIONE:**

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

**PRECAUCIÓN:**

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared. El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

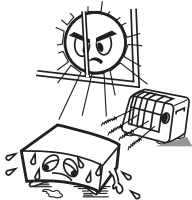
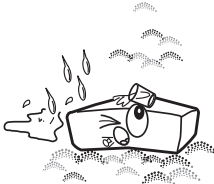


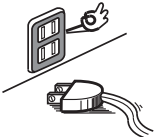



**WAARSCHUWING:**

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken. De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

**FÖRSIKTIHETSMÅTT:**

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet. Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

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

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

**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 ÅTERTVINNING:**

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser.

När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser.

Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall.

Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.

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<b>Other Information</b> .....	61 ~ 69
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<b>Specifications</b> .....	72
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**List of preset codes** ..... End of this manual

# Getting Started

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

## Accessories

Check that the following parts are supplied with the product.

- |   |   |
|---|---|
| ① Owner's manual .....                                | 1 |
| ② Service station list.....                           | 1 |
| ③ Power cord (Cord length: Approx. 1.5 m) .....       | 1 |
| ④ Main remote control (RC-1068) .....                 | 1 |
| ⑤ LR6/AA batteries (for RC-1068).....                 | 2 |
| ⑥ Sub remote control (RC-1071) .....                  | 1 |
| ⑦ R03/AAA batteries (for RC-1071) .....               | 2 |
| ⑧ FM indoor antenna .....                             | 1 |
| ⑨ AM loop antenna .....                               | 1 |
| ⑩ Setup microphone (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.

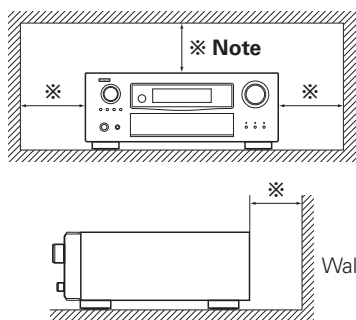
Next, disconnect the connection cables to other system units before moving the unit.

• 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.



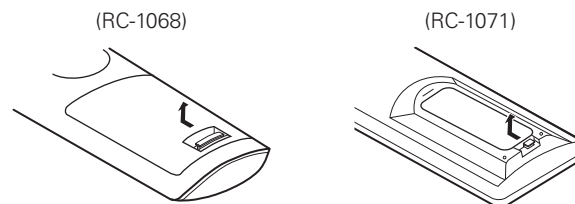
## About the Remote Control Unit

In addition to the AVR-2808, the included main remote control unit (RC-1068) can also be used to operate the equipment listed below.

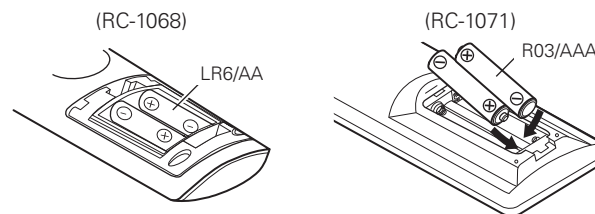
- ① DENON system components
- ② Non-DENON system components
  - By setting the preset memory (page 51 ~ 53)
  - By using the learn function (page 54)

### Inserting the Batteries

- ① Lift the clasp and remove the rear lid.



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



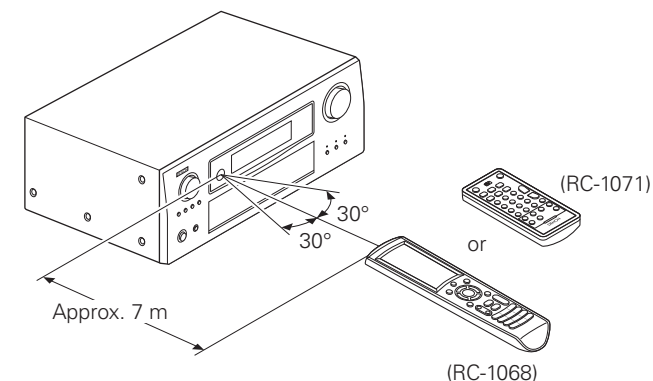
- ③ Put the rear cover back on.

### NOTE

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

### Operating Range of the Remote Control Unit

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



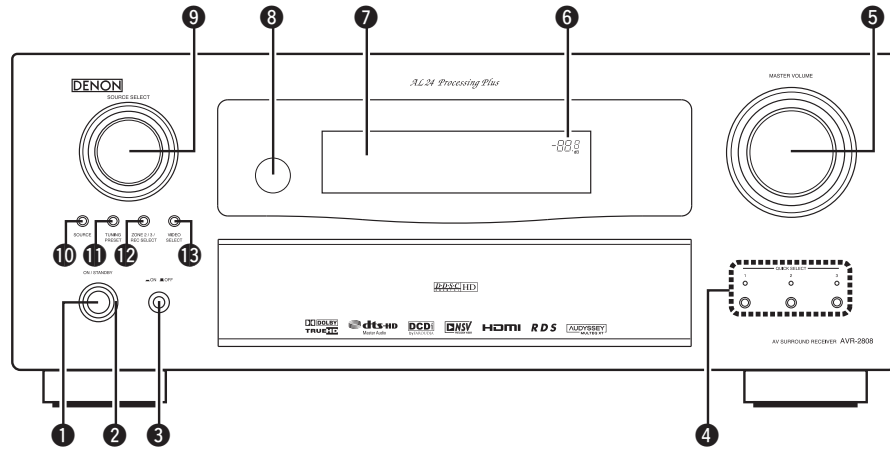
### NOTE

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

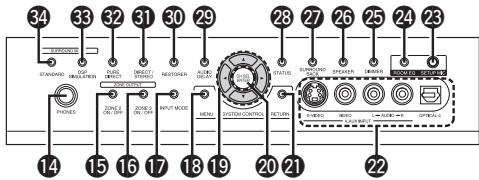
# Part Names and Functions

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

## Front Panel

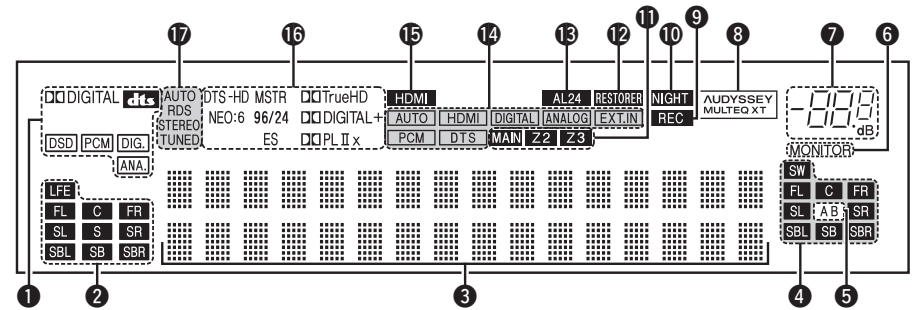


### [With the door open]



- 1 Power operation button (ON/STANDBY) ..... (43)
- 2 Power indicator ..... (43)
- 3 Power switch (ON/OFF) ..... (43)
- 4 QUICK SELECT buttons / indicators ..... (50)
- 5 MASTER VOLUME control knob ..... (43)
- 6 Master volume indicator
- 7 Display
- 8 Remote control sensor ..... (3)
- 9 SOURCE SELECT knob ..... (43)
- 10 SOURCE button ..... (43)
- 11 TUNING PRESET button ..... (45)
- 12 ZONE2/3 / REC SELECT button ..... (49, 60)
- 13 VIDEO SELECT button ..... (36)
- 14 Headphones jack (PHONES) ..... (43)
- 15 ZONE2 ON/OFF button ..... (60)
- 16 ZONE3 ON/OFF button ..... (60)
- 17 INPUT MODE button ..... (34)
- 18 MENU button ..... (20)
- 19 Cursor buttons (Δ ∇ ◀ ▶) ..... (20)
- 20 CH SEL / ENTER button ..... (20, 49)
- 21 RETURN button ..... (20)
- 22 V.AUX INPUT connectors ..... (17)
- 23 SETUP MIC jack ..... (23)
- 24 ROOM EQ button ..... (40)
- 25 DIMMER button ..... (32)
- 26 SPEAKER button ..... (43)
- 27 SURROUND BACK button ..... (40)
- 28 STATUS button ..... (42)
- 29 AUDIO DELAY button ..... (41)
- 30 RESTORER button ..... (41)
- 31 DIRECT/STEREO button ..... (37)
- 32 PURE DIRECT button ..... (38)
- 33 DSP SIMULATION button ..... (37)
- 34 STANDARD button ..... (36)

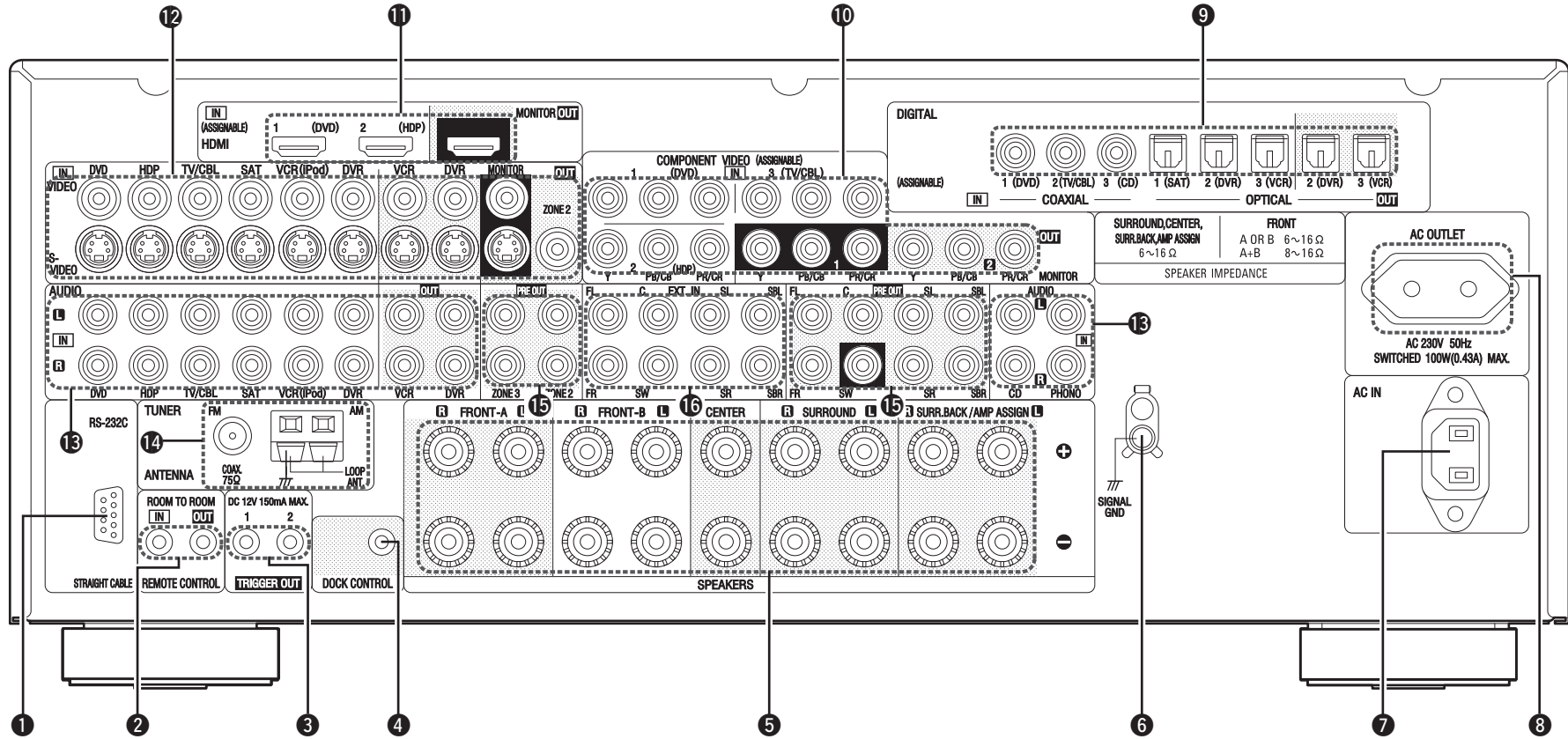
## Display



- 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 HDMI monitor indicator  
This lights when an HDMI monitor is detected.
- 7 Master volume indicator
- 8 AUDYSSEY MULTEQ XT indicator  
This lights when the room equalizer is selected.
- 9 Recording output source indicator  
This lights when the REC OUT mode is selected.
- 10 NIGHT indicator  
This lights when the night mode is selected.
- 11 Multi-zone indicators  
These light when the power for the respective zone is turned on.
- 12 RESTORER indicator  
This lights when the RESTORER mode is selected.
- 13 AL24 indicator  
This lights when AL24 Processing Plus is activated (page 63).
- 14 Input mode indicators
- 15 HDMI indicator  
This lights when playing using HDMI connections.
- 16 Decoder indicators  
These light when the respective decoders are operating.
- 17 Tuner reception mode indicators  
These light according to the reception conditions when the input source is set to "TUNER".
  - AUTO  
This lights when in the auto tuning mode.
  - RDS  
This lights when receiving RDS broadcasts.
  - STEREO  
In the FM mode, this lights when receiving analog stereo broadcasts.
  - TUNED  
This lights when the broadcast is properly tuned in.



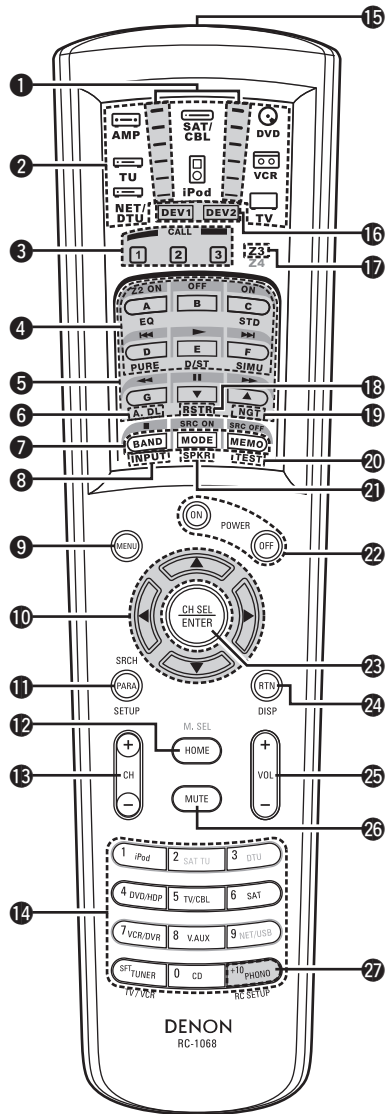
Rear Panel



- 1 RS-232C connector ..... (19)
- 2 REMOTE CONTROL jacks ..... (19)
- 3 TRIGGER OUT jacks ..... (19)
- 4 DOCK CONTROL jack ..... (14)
- 5 Speaker terminals (SPEAKERS) ..... (9)
- 6 SIGNAL GND terminal ..... (13)
- 7 AC inlet (AC IN) ..... (20)
- 8 AC OUTLET ..... (20)
- 9 Digital audio connectors (OPTICAL / COAXIAL) ..... (12, 15)
- 10 COMPONENT VIDEO connectors ..... (12)
- 11 HDMI connectors ..... (11)
- 12 VIDEO / S-VIDEO connectors ..... (12)
- 13 Analog audio connectors (AUDIO) ..... (12)
- 14 FM/AM antenna terminals (TUNER ANTENNA) ..... (18)
- 15 PRE OUT connectors ..... (17, 19)
- 16 EXT. IN connectors ..... (17)

# Remote Control Unit

## □ Main remote control unit (RC-1068)



- 1 Signal transmission indicator ..... (51)
- 2 Mode select buttons ..... (51)
- 3 Quick select / System call buttons ..... (50, 55)
- 4 Surround mode buttons ..... (36 ~ 38)
- 5 System buttons ..... (52, 53)
- 6 Audio delay button (A. DL) ..... (41)
- 7 Tuner system buttons ..... (44)
- 8 Input mode button (INPUT) ..... (34)
- 9 MENU button ..... (20)
- 10 Cursor buttons (Δ ∇ ◀ ▶) ..... (20)
- 11 Parameter / Search button (PARA / SRCH) ..... (38, 48)
- 12 HOME button ..... (51)
- 13 Channel buttons (CH) ..... (44)
- 14 Input source select / Number buttons .. (43, 44)
- 15 Remote control signal transmitter ..... (3)
- 16 Device select indicators (DEV1 / DEV2) ... (51)
- 17 ZONE3 select indicators (Z3) ..... (51)
- 18 RESTORER button (RSTR) ..... (41)
- 19 Night button (NGT) ..... (41)
- 20 Test tone button (TEST) ..... (27)
- 21 Front speaker select button (SPKR) ..... (43)
- 22 POWER buttons ..... (43)
- 23 Channel select (CH SEL) / ENTER button ..... (20, 49)
- 24 Return button (RTN) ..... (20)
- 25 Master volume control buttons (VOL) ..... (43)
- 26 Muting button (MUTE) ..... (43, 60)
- 27 Main remote control unit setup button (RC SETUP) ..... (51)

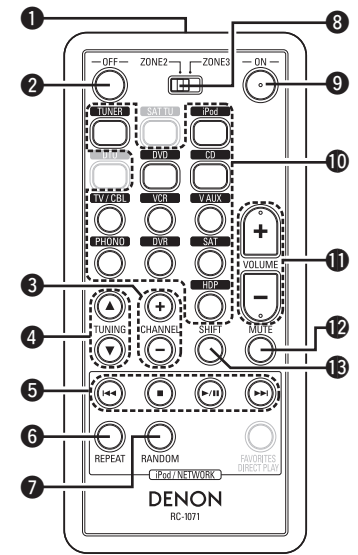


The time for which the backlight stays on can be changed (page 55 "Setting the Time the Backlight Stays Lit").

**NOTE**

- The **M. SEL**, **SAT TU**, **DTU**, **NET/USB** buttons cannot be used.
- The ZONE2 mode **QUICK SELECT (1 ~ 3)**, **A. DL**, **RSTR**, **NGT**, **INPUT**, **SPKR**, **TEST** and surround mode buttons cannot be used.
- The ZONE4 mode cannot be used.

## □ Sub remote control unit (RC-1071)



- 1 Remote control signal transmitter ..... (3)
- 2 Zone power off button (OFF) ..... (60)
- 3 CHANNEL buttons ..... (57)
- 4 TUNING buttons ..... (57)
- 5 System buttons ..... (57)
- 6 REPEAT button ..... (57)
- 7 RANDOM button ..... (57)
- 8 ZONE2/ZONE3 select switch ..... (57)
- 9 Zone power on button (ON) ..... (60)
- 10 Input source select buttons ..... (60)
- 11 Volume control buttons (VOLUME) ..... (60)
- 12 Muting button (MUTE) ..... (60)
- 13 SHIFT button ..... (57)



The **FAVORITES DIRECT PLAY** button is for future use.

**NOTE**

The **SAT TU** and **DTU** buttons cannot be used.

# Connections

Connections for all compatible audio and video signal formats are described in these operating instructions. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-2808. For details, refer to the instructions for the respective connection items below.









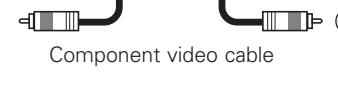



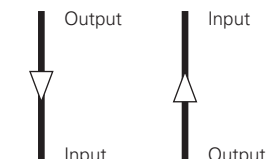
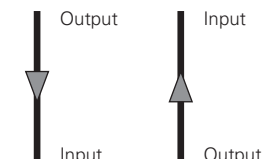
**NOTE**

- 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

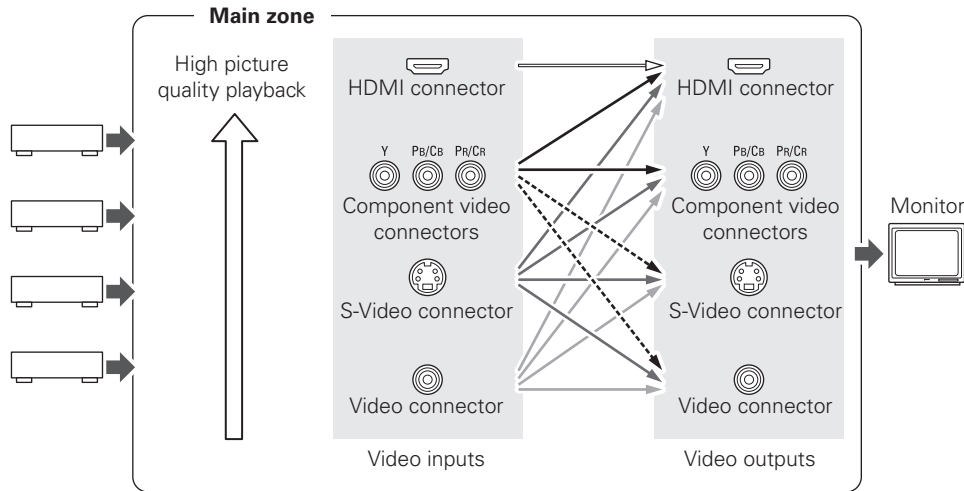
Select the cables according to the equipment being connected.

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

## Video Conversion Function

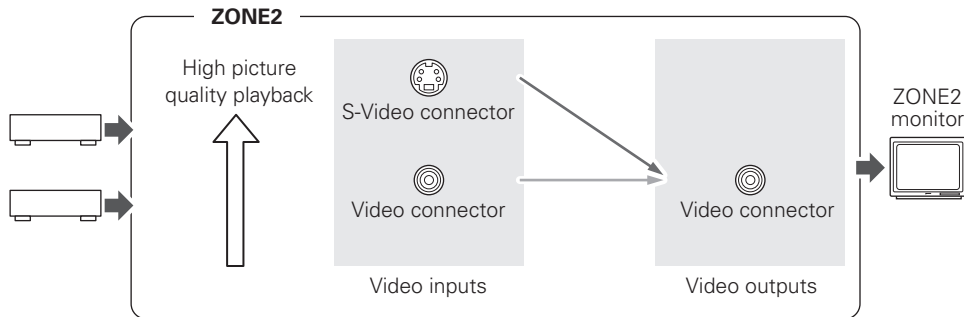
- This function automatically converts various formats of video signals input to the AVR-2808 into the format used to output the video signals from the AVR-2808 to a monitor.
- The AVR-2808's video input/output circuitry is compatible with the following four types of video signals:  
 Digital video signals: HDMI  
 Analog video signals: Component video, S-Video and Video

[Flow of video signals inside the AVR-2808]



---- : When 480i/576i signals are input in the main zone

[Flow of video signals for ZONE2]



- 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-2808 can be checked at menu "Information" – "HDMI Information" (page 42).

### NOTE

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

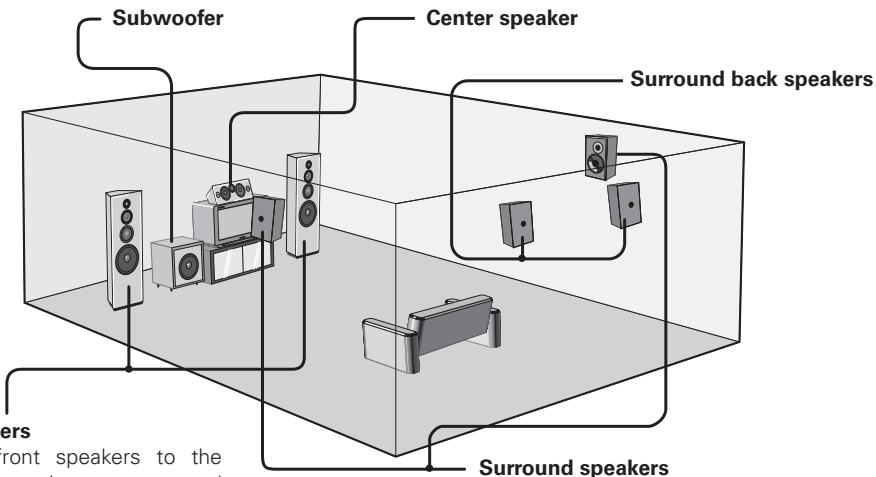
## On-Screen Display for Component Video Outputs and HDMI Output

- When viewing HDMI or component video signals via the AVR-2808, the on-screen display appears when the **MENU** button or the main remote control unit's **PARA** button is operated.
- When only HDMI or component video signals are input to the AVR-2808, the characters of the on-screen display are not displayed over the picture.

# Speaker Connections

## Speaker Installation

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



### Front speakers

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

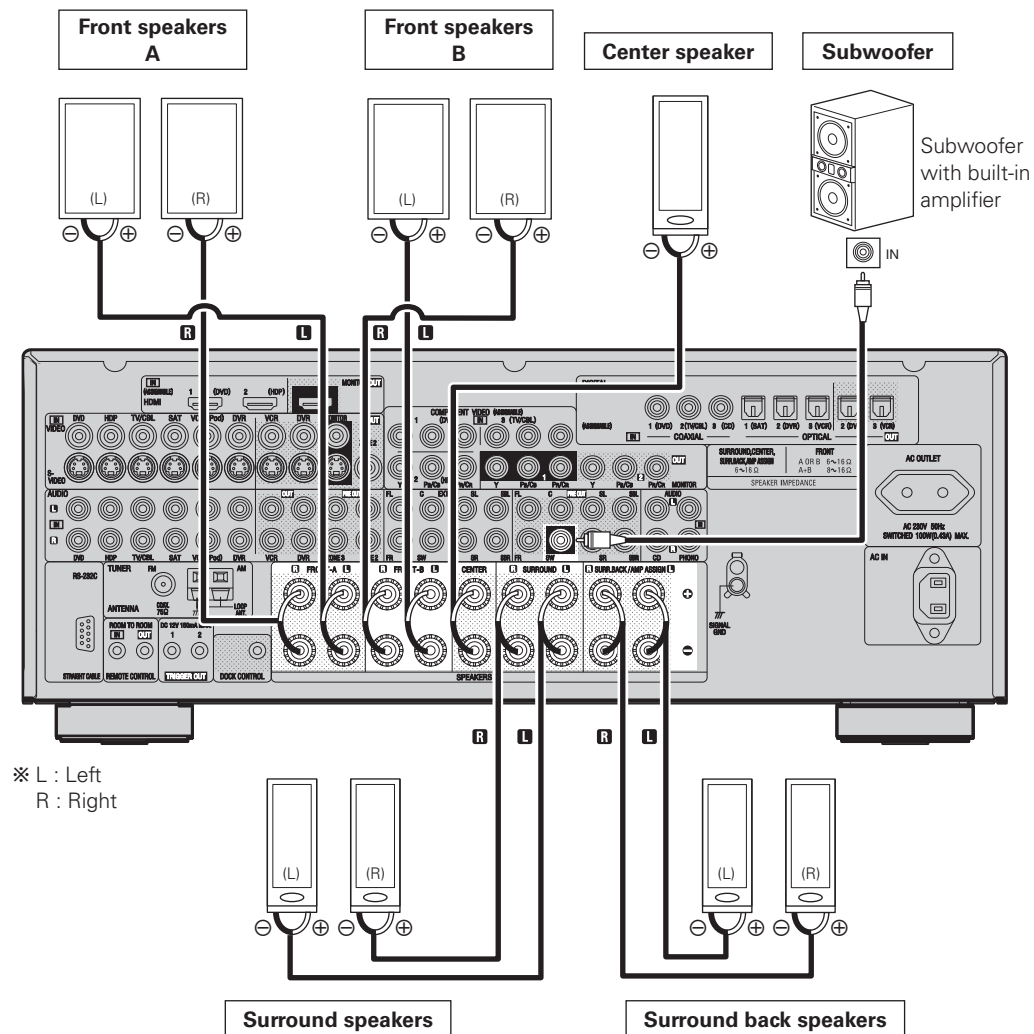


The table below shows a typical speaker configuration for the AVR-2808.

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

# Speaker Connections

Example: 7.1-channels (FRONT A+B)



※ L : Left  
R : Right



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

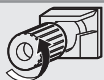
## Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-2808, 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  $\Omega$ /ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 8 to 16  $\Omega$ /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

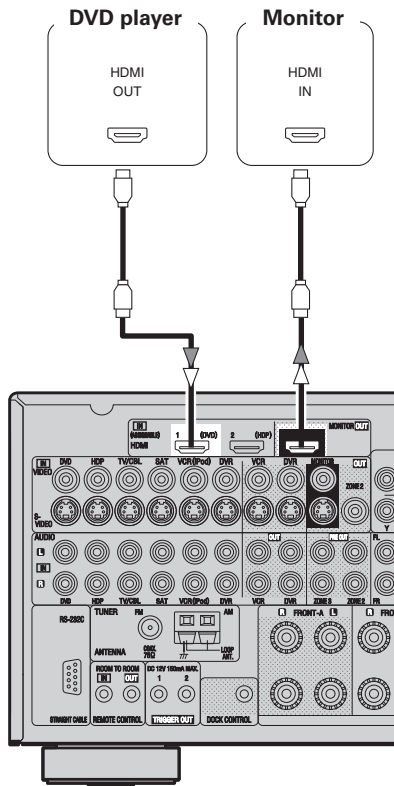
If speakers with an impedance lower than specified (for example 4  $\Omega$ /ohms speakers) are used for an extended period of time with the volume turned up high, the temperature may rise, activating the protection circuit.

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

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

## Connecting Equipment with HDMI connectors

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



- ※ The AVR-2808 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-2808 is compatible with 30- and 36-bit Deep Color.

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

### Copyright protection system (HDCP)

In order to play the digital video and audio signals of a DVD-Video or DVD-Audio disc using HDMI/DVI connections, both the connected DVD player and monitor must be equipped for a copyright protection system called "HDCP" (High-bandwidth Digital Content Protection). HDCP is a copy protection technology consisting of data encoding and mutual identification of the devices. The AVR-2808 is HDCP-compatible. For details on the DVD player or monitor you are using, refer to its operating instructions.

### NOTE

- Use a CPPM-compatible DVD player to play DVD-Audio discs that are copyright-protected by CPPM.
- The AVR-2808 cannot be controlled from another device via the HDMI cable.
- The audio signals output from the HDMI connector (sampling frequency, bit rate, etc.) may be restricted by the connected device.
- Video signals are not output properly when using devices that are not HDCP-compatible.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.
- If the menu "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" setting (page 27) is set to "AMP", the sound may be interrupted when the monitor's power is turned off.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or DVD player does not support deep color, deep color signal transfer is not possible.
- If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible.
- If the monitor does not support "Auto Lipsync Correction" function, this function will not work.



- When the AVR-2808 and DVD player are connected using an HDMI cable, also connect the AVR-2808 and monitor using an HDMI cable.
- If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. When using a DVI cable, no audio signals are transmitted.
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

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

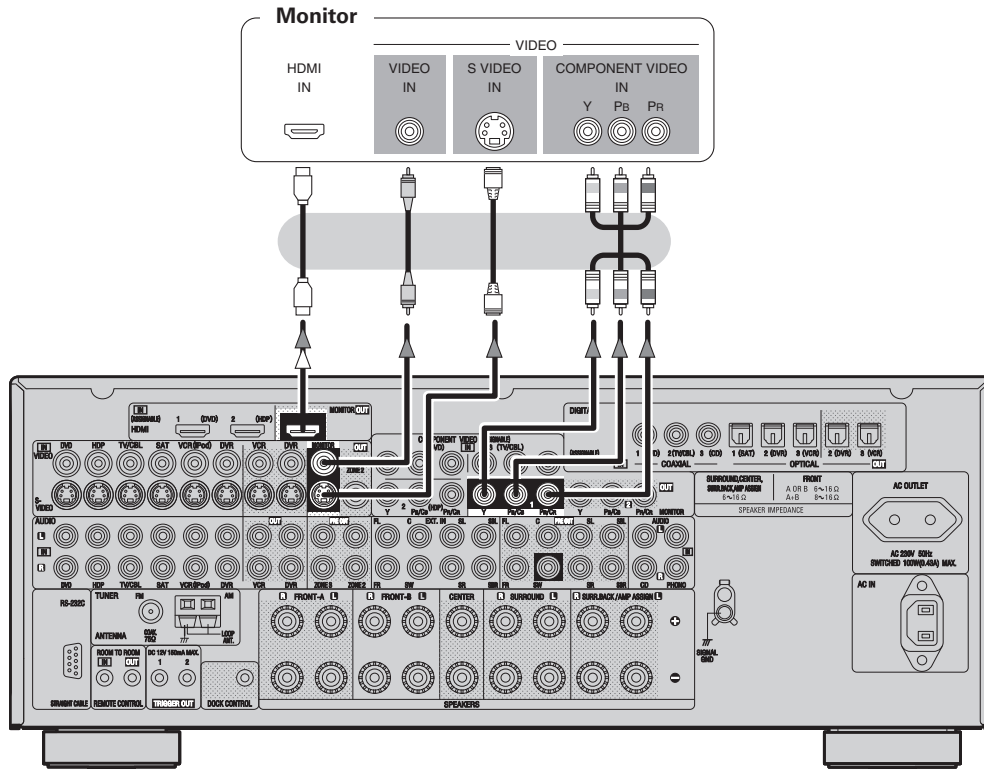
- HDMI video signals are theoretically compatible with the DVI format. When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.
- When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



- By default, the HDMI audio signals are output from the speakers connected to the AVR-2808.
- To output the sound from the TV, make the settings at menu "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" – "TV" (page 27).

## Connecting the Monitor

- Connect the cables to be used (☞ page 8 “Video Conversion Function”).
- With HDMI connections, the video and audio signals can be transferred with a single cable.
- To output the audio signals to the monitor with HDMI connections, set menu “Manual Setup” – “HDMI Setup” – “HDMI Audio Setup” – “HDMI Audio Out” to “TV” (☞ page 27).



### NOTE

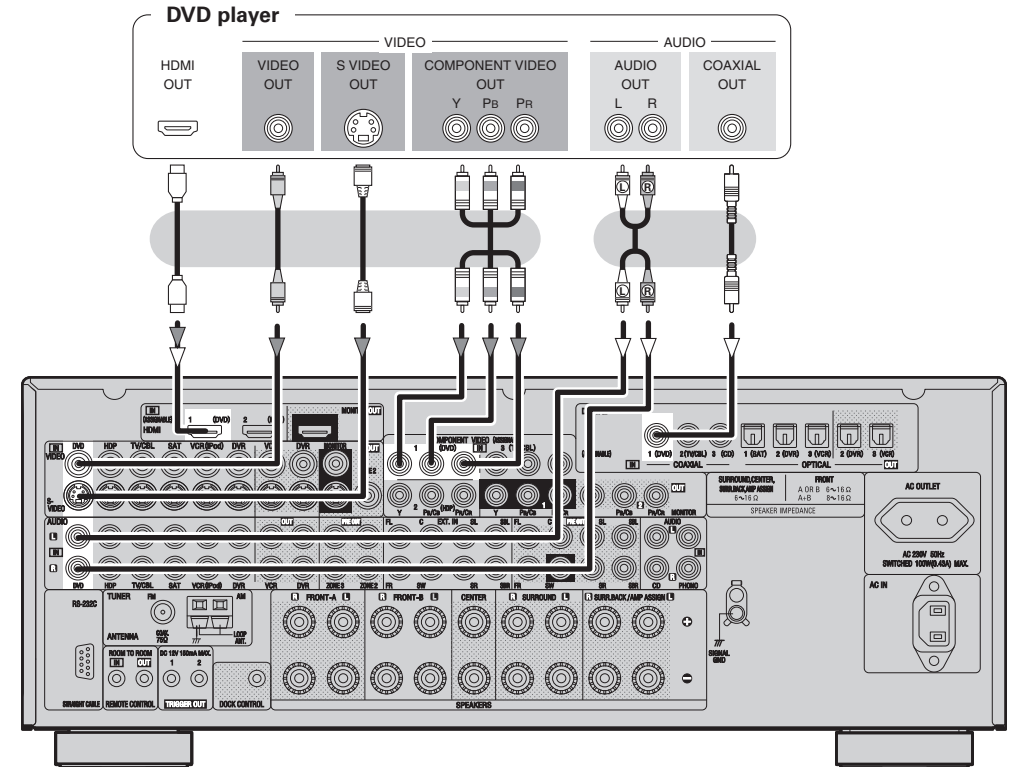
- The component video connectors may be indicated differently on your monitor. For details, see the monitor’s operating instructions.
- The audio signals output from the HDMI connectors are only the HDMI input signals.

## Connecting the Playback Components

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

### DVD Player

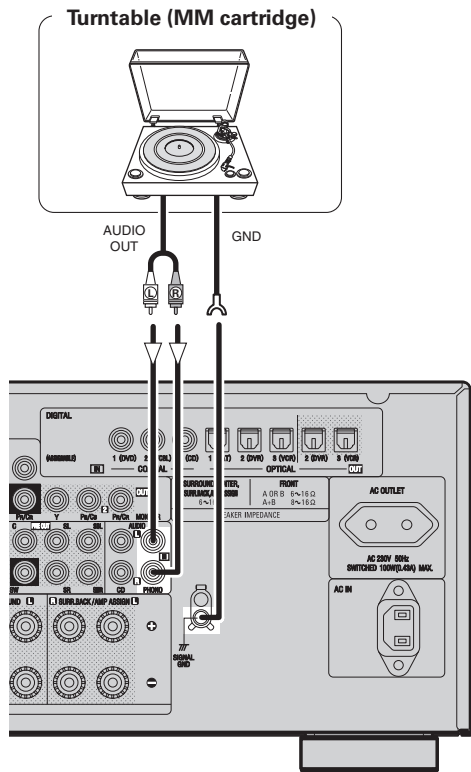
- Connect the cables to be used.
- With HDMI connections, the video and audio signals can be transferred with a single cable.



- Connect an HDP (High-Definition Player) in the same way.
- When using an optical cable for the digital audio connection, make the settings at menu “Input Setup” – “Assign” – “Digital In” (☞ page 35).



## Record Player



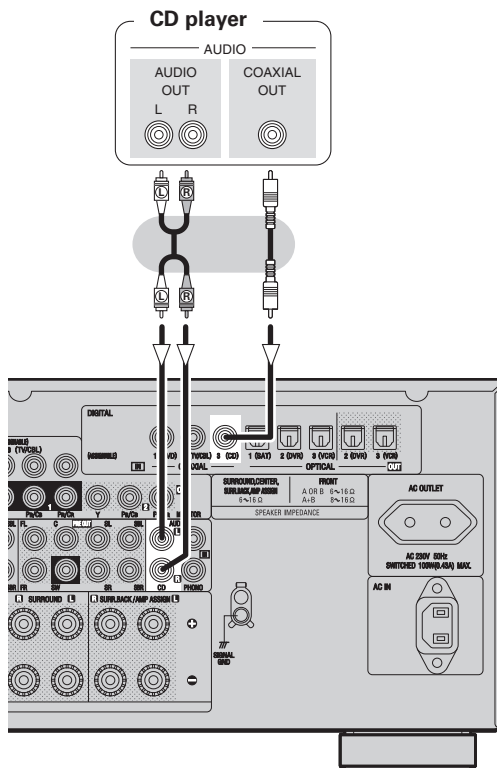
- When connecting a record player with an MC cartridge, use a commercially available MC head amplifier or a step-up transformer.
- Induction humming (a booming sound) may be produced from the speakers if the volume is raised with no record player connected.
- With some record players, noise may be generated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

### NOTE

The AVR-2808's SIGNAL GND terminal is meant to reduce noise when a record player is connected. This is not a safety ground terminal.

## CD Player

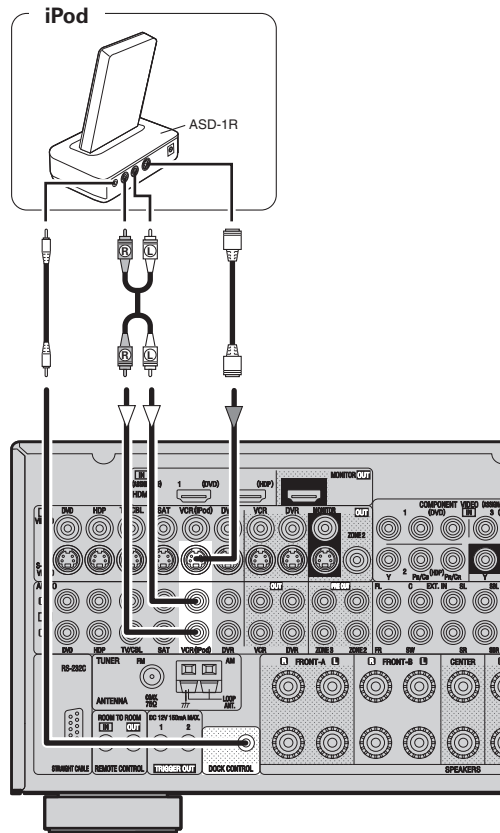
Connect the cables to be used.



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

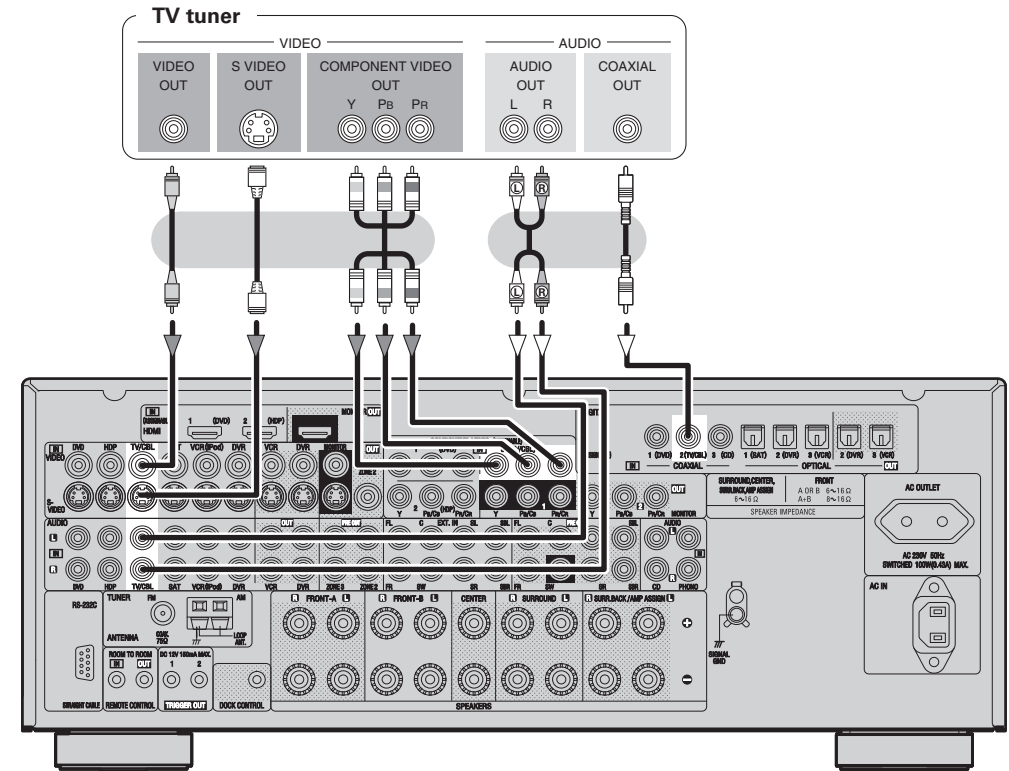
## iPod®

Use a DENON Control Dock for iPod (ASD-1R, sold separately) to connect the iPod to the AVR-2808. For instructions on the Control Dock for iPod settings, refer to the Control Dock for iPod's operating instructions.



## TV/CABLE Tuner

Connect the cables to be used.



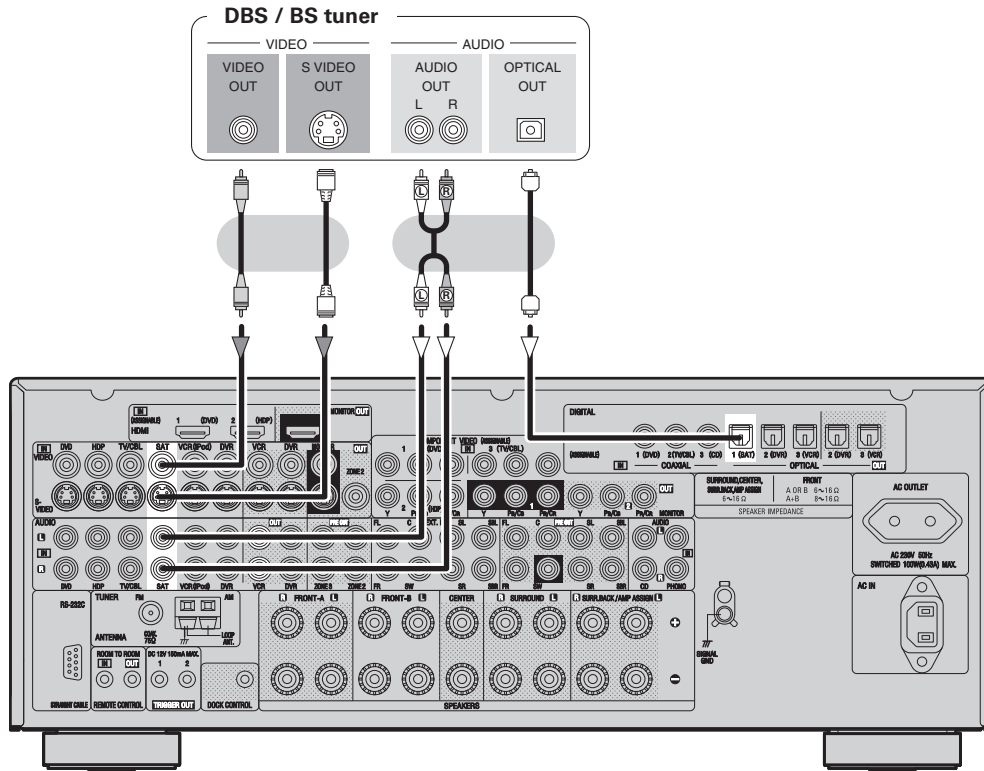
When using an optical cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (page 35).



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

## Satellite Receiver

Connect the cables to be used.



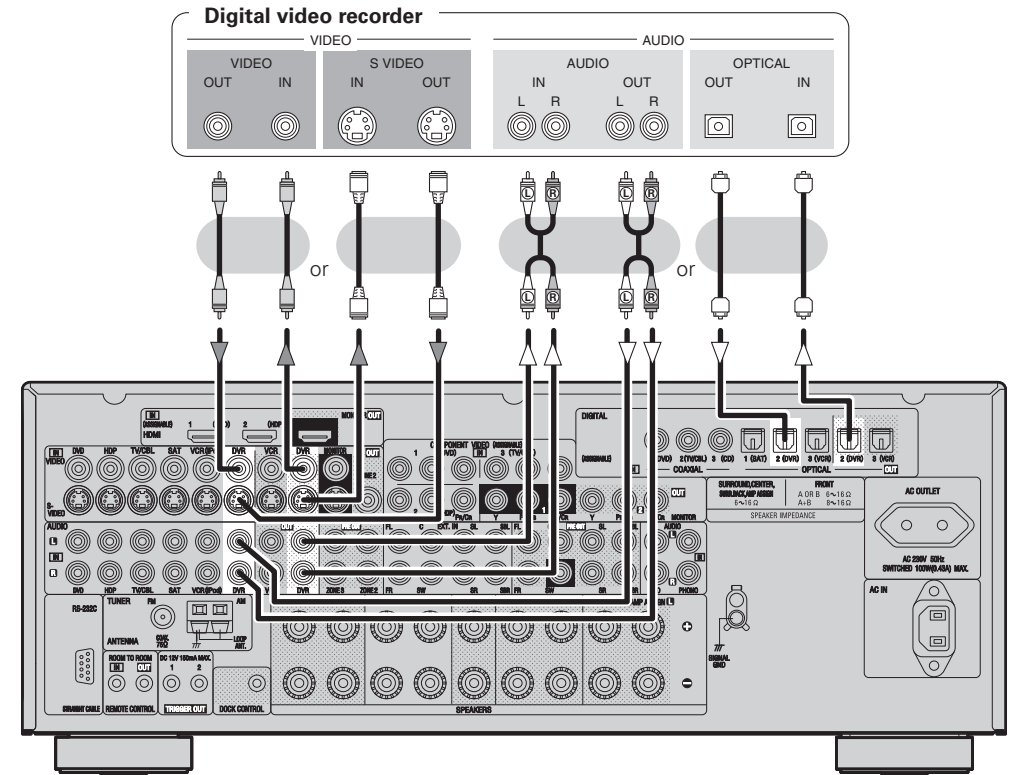
- When using a coaxial digital cable for the digital audio connection, make the settings at menu "Input Setup" – "Assign" – "Digital In" (page 35).
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (page 35).

## Connecting the Recording Components

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

### Digital Video Recorder

Connect the cables to be used.



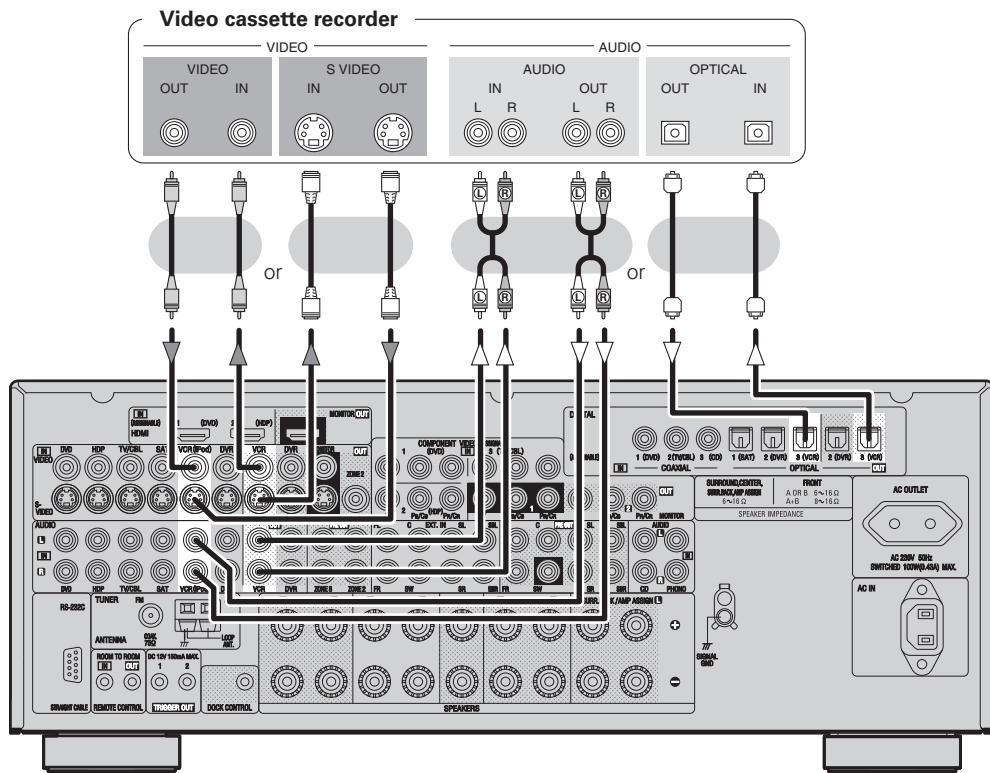
- Make analog connections if you wish to record analog audio signals.
- When recording via the AVR-2808, the playback device's cable must be of the same type as the cable used to connect the AVR-2808's DVR OUT connector.  
**Example:** TV IN → S-Video cable : DVR OUT → S-Video cable  
 TV IN → Video cable : DVR OUT → Video cable
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (page 35).

#### NOTE

Do not connect the output of the component connected to the AVR-2808's OPTICAL2 output connector to any input connector other than OPTICAL2.

## Video Cassette Recorder

Connect the cables to be used.



- When recording via the AVR-2808, the playback device's cable must be of the same type as the cable used to connect the AVR-2808's VCR OUT connector.

**Example:** TV IN → S-Video cable : VCR OUT → S-Video cable  
TV IN → Video cable : VCR OUT → Video cable

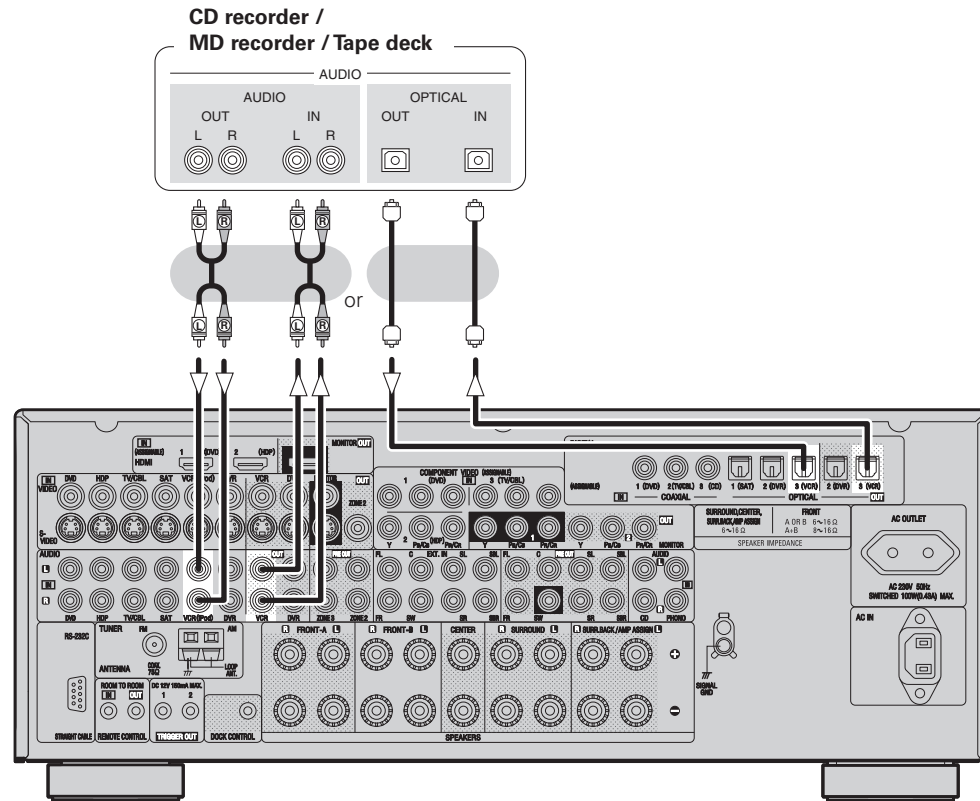
- When using a component video cable for the video connection, make the settings at menu "Input Setup" – "Assign" – "Component In" (page 35).

### NOTE

Do not connect the output of the component connected to the AVR-2808's OPTICAL3 output connector to any input connector other than OPTICAL3.

## 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.



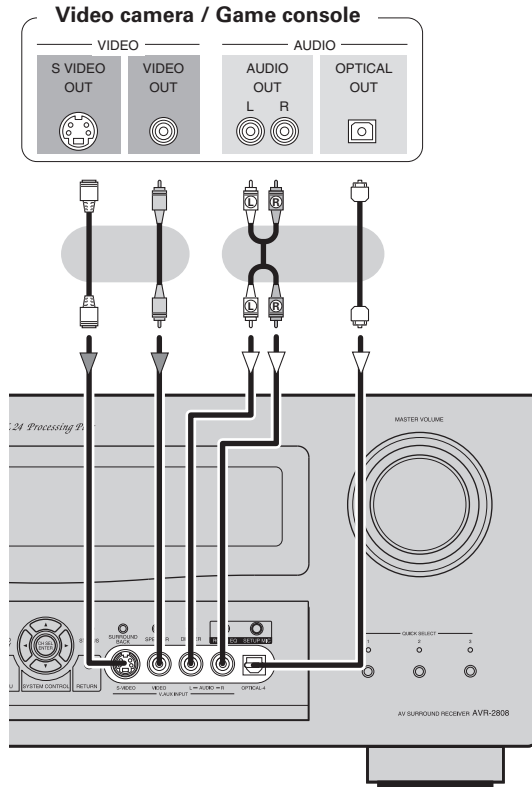
### NOTE

Do not connect the output of the component connected to the AVR-2808's OPTICAL3 output connector to any input connector other than OPTICAL3.

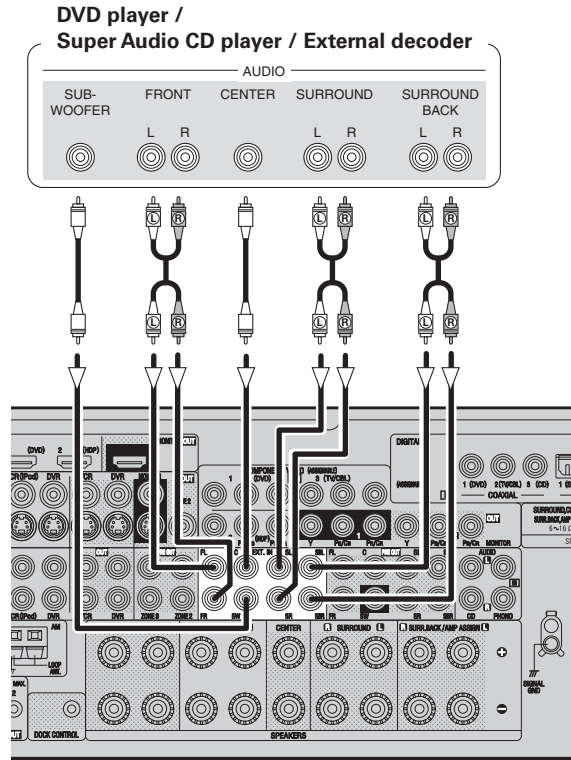
## Connections to Other Devices

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

### Video Camera / Game Console

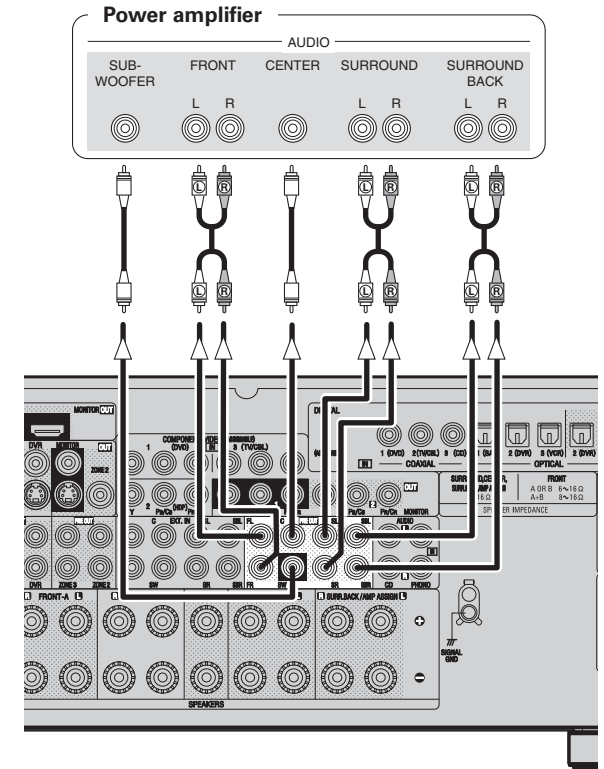


### Component with Multi-channel Output connectors



- To play the analog input signals input to the EXT. IN connectors, press the **INPUT MODE** button on the main unit or **INPUT** button on the main remote control unit and select "EXT. IN" or make the settings at menu "Input Setup" – "Input Mode" – "Input Mode" – "EXT. IN" (📖 page 34).
- The video signal can be connected in the same way as a DVD player (📖 page 12).
- To play copyright-protected discs, connect the AVR-2808's EXT. IN connector with the DVD player's analog multi-channel output connector.

### External Power Amplifier

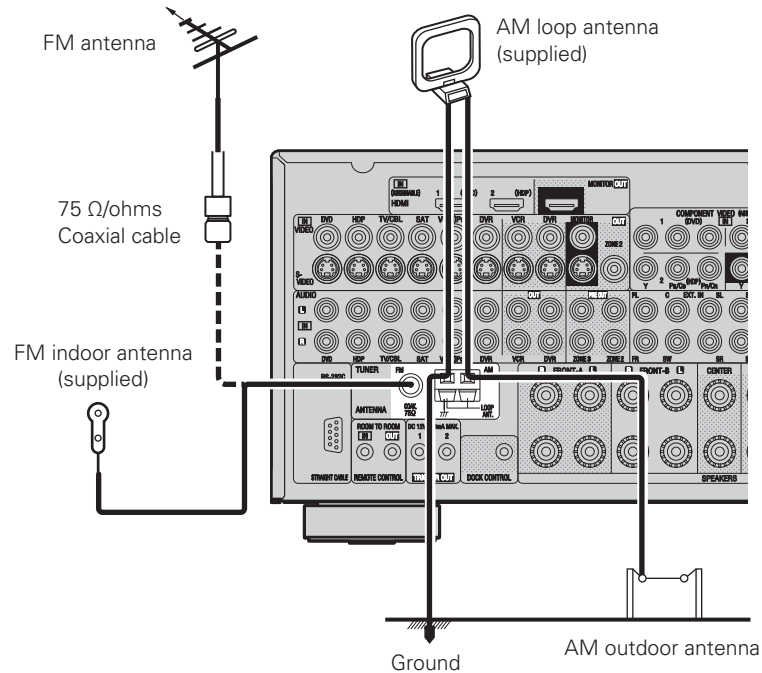


When using just one surround back speaker, connect it to the left channel (SBL).

# Antenna terminals

An FM antenna cable plug can be connected directly.

Direction of broadcasting station



## AM loop antenna assembly

- ① Remove the vinyl tie and take out the connection line.
- ② Connect to the AM antenna terminals.
- ③ Bend in the reverse direction.

- ④
  - a. With the antenna on top of any stable surface.
  - b. With the antenna attached to a wall.

Mount

Installation hole Mount on wall, etc.

### Connection of AM antennas

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

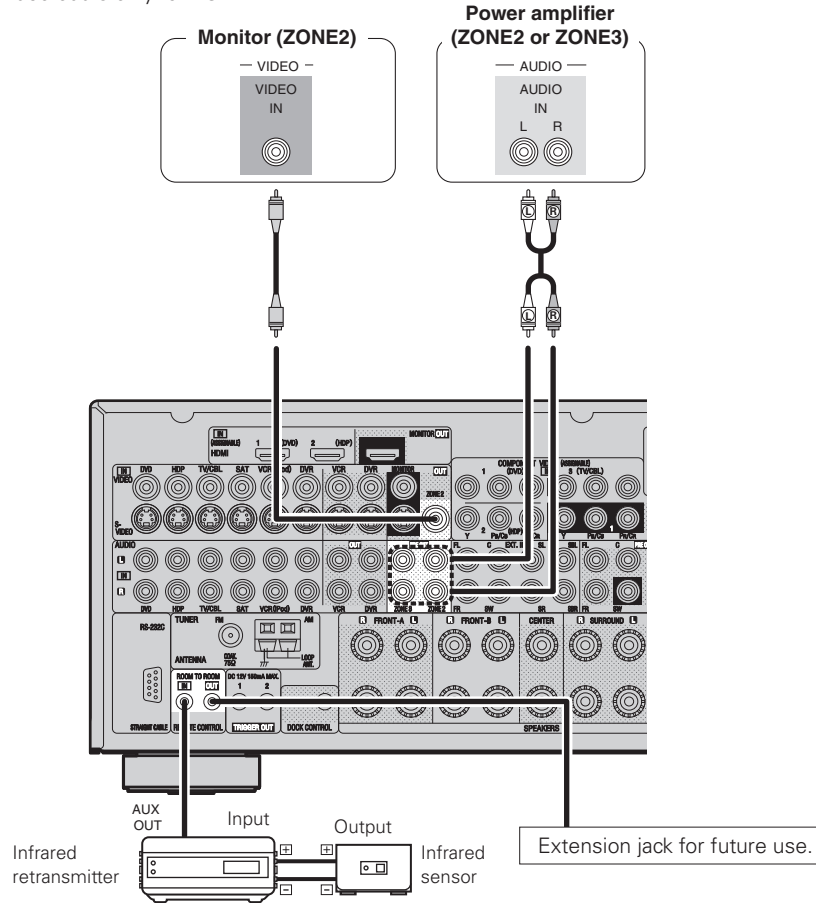
**NOTE**

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

**Multi-zone**

**ZONE2 or ZONE3 Pre-out Connections**

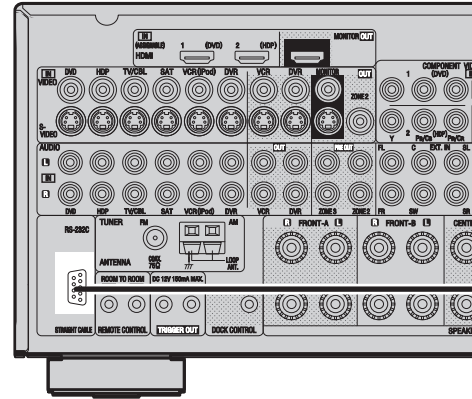
- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 or ZONE3 pre-out (variable or fixed level) connectors can be used to play a different program source in ZONE2 or ZONE3 the same time (☞ page 57 ~ 60).
- When using an S-Video cable or a video cable for connection between the AVR-2808 and an input device, connect to the video connectors.
- The ZONE2 video out is only for ZONE2.



**NOTE**

- For the audio output, use high quality pin-plug cords so that no induction humming or noise is produced.
- For instructions on installing and operating separately sold devices, refer to the respective devices' operating instructions.
- To conduct multi-zone playback, see "Amp Assign / Multi-zone Connections and Operations" (☞ page 57 ~ 60).

**External Controller**



**RS-232C connector**

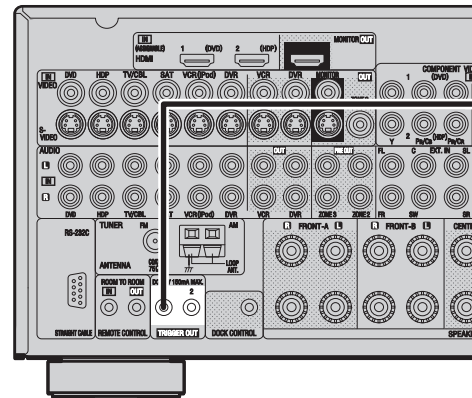
This connector is used for an external controller.

※ If you wish to control the AVR-2808 from an external controller using the RS-232C connector, perform the operation below beforehand.

- ① Turn on the AVR-2808's power.
- ② Turn off the AVR-2808's power from the external controller.
- ③ Check that the AVR-2808 is in the standby mode.



- When using in combination with an RF Remote Controller (RC-7000CI, sold separately) or RF Remote Receiver (RC-7001RCI, sold separately) two-way communication with an RF Remote Controller is possible. The AVR-2808'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" (☞ page 32).



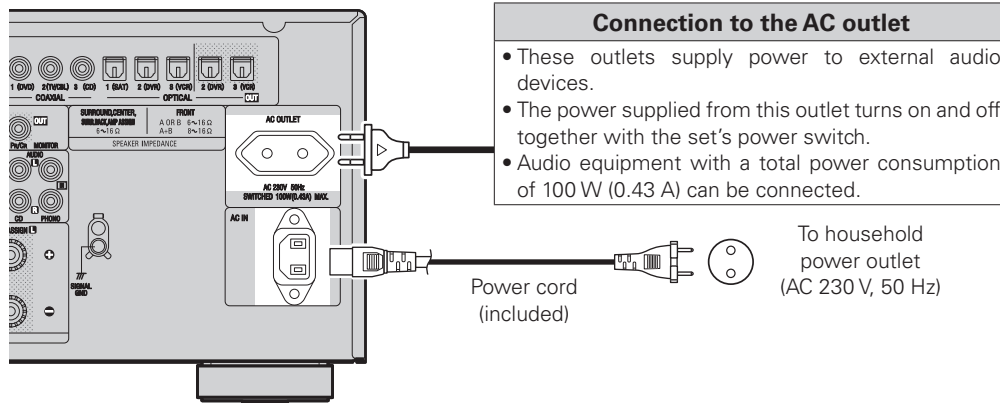
**Trigger output jacks**

The power of an external device equipped with a trigger input jack can be turned on and off in association with operations on the AVR-2808. For details, see menu "Manual Setup" – "Option Setup" – "Trigger Out" (☞ page 32).

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

## Connecting the Power Cord

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



### Connection to the AC outlet

- These outlets 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.

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

### NOTE

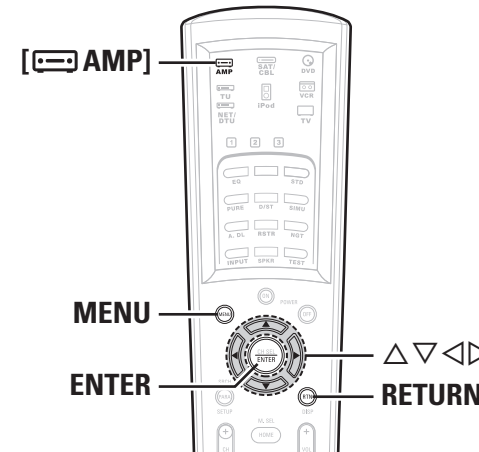
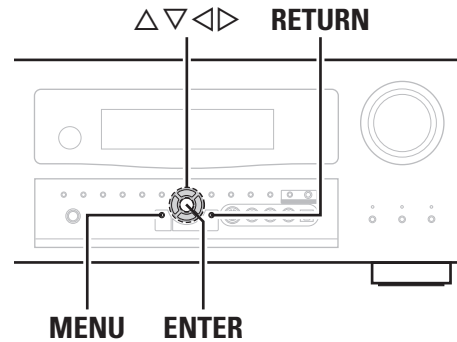
- Insert the AC plugs securely. Incomplete connections could cause noise.
- Only use the AC outlet to plug in audio devices. Do not use them as power supplies for hairdryers or anything other than audio equipment.

## Once Connections are Completed

Turning the Power On (page 43)

## Menu Operations

With the AVR-2808, 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.

The menu is displayed.

※ To operate from the main remote control unit, be sure to set the remote control unit to the AMP mode.

### 2 Press $\Delta \nabla$ to select the item you want to set, then press ENTER.

### 3 Press $\Delta \nabla$ again to select the item you want to set, then press ENTER.

### 4 To change the setting: Press $\Delta \nabla$ to select the item you want to change, then press $\triangleleft \triangleright$ to change the setting.

※ To return to the previous item, press RETURN.  
※ Select "Default Yes", then press  $\triangleleft$  to reset to the default setting.

### 5 Press ENTER to enter the setting.

### 6 Press MENU to finish.

### About the button names in these explanations

$\triangleleft$   $\triangleright$  : Buttons on the main unit

[ ] : Buttons on the remote control unit

### Button name only:

Buttons on the main unit and remote control unit



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



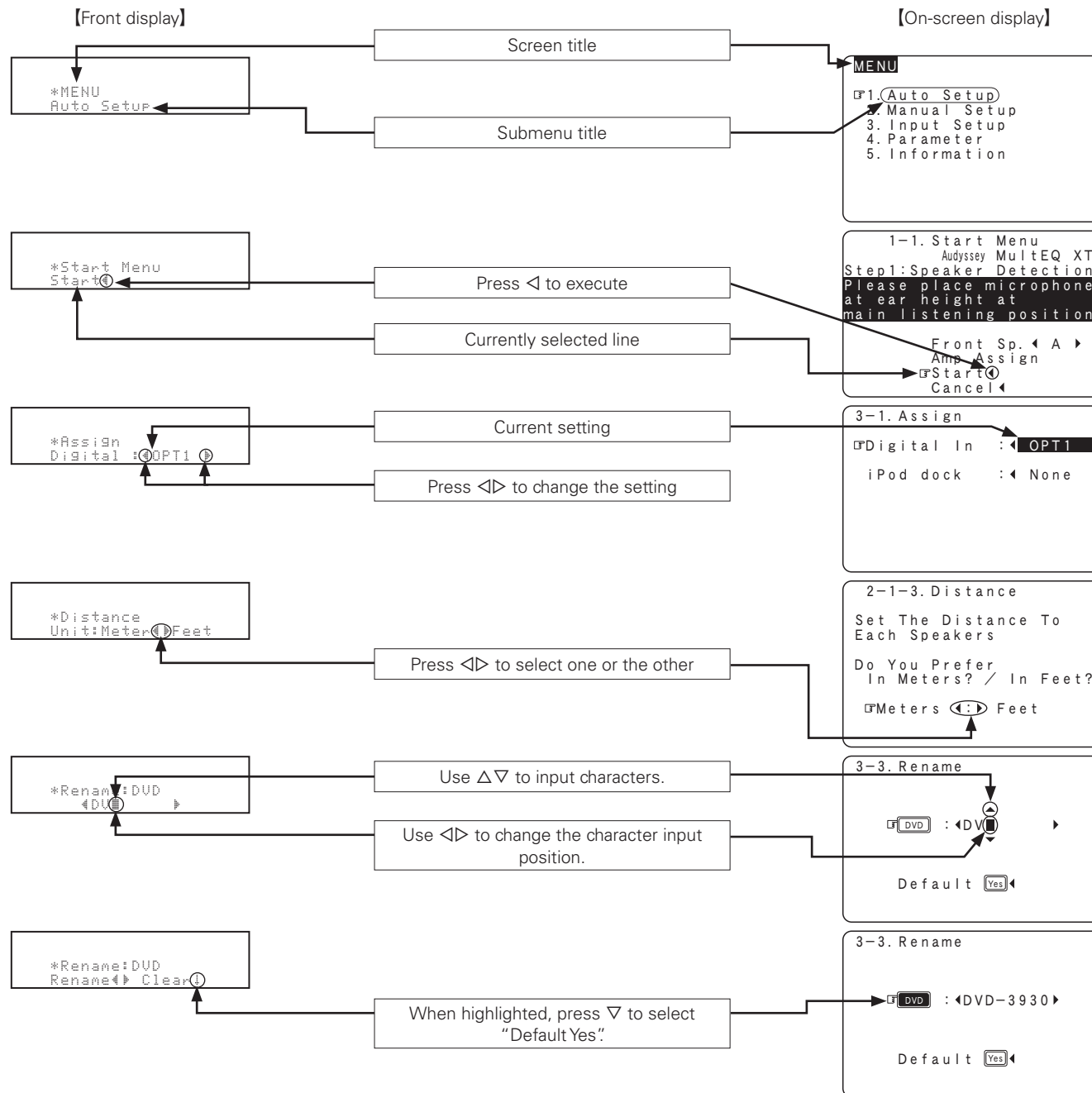
## Example of Display of Default Values

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

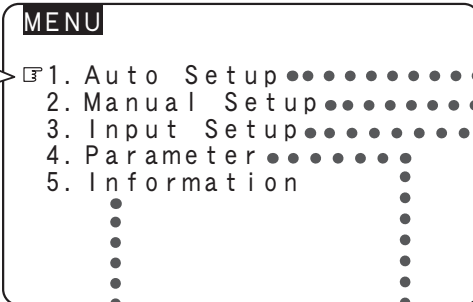
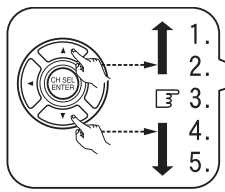
[Selectable items] **A** B A + B

## Examples of On-screen Display and Front Display

Some typical examples are described below.



# Menu Map



## Auto Setup (page 23 ~ 25)

- ❑ Start Menu
  - Step 1: Speaker Detection
  - Step 2: Measurement
  - Step 3: Calculation
  - Step 4: Check
  - Step 5: Store
- ❑ Option
  - Room EQ
  - Direct Mode Setup
  - Mic Select
- ❑ Parameter Check
  - Speaker Configuration Check
  - Distance Check
  - Channel Level Check
  - Crossover Frequency Check
  - EQ Check
  - Restore

## Manual Setup (page 26 ~ 33)

- ❑ Speaker Setup (page 26, 27)
  - Speaker Configuration
  - Subwoofer Setup
  - Distance
  - Channel Level
  - Crossover Frequency
- ❑ HDMI Setup (page 27, 28)
  - HDMI Audio Setup
    - HDMI Audio Out
    - Auto Lipsync
  - HDMI Video Setup
    - i/p Scaler
    - Resolution
    - Progressive Mode
    - Aspect
    - Color Space
    - RGB Range
- ❑ Audio Setup (page 28, 29)
  - EXT. IN Subwoofer Level
  - 2ch Direct/Stereo
  - Dolby Digital Setup
  - Auto Surround Mode
  - Manual EQ
- ❑ Zone Setup (page 30)
  - ZONE2 Setup
    - Bass
    - Treble
    - HPF
    - Lch Level
    - Rch Level
    - Channel
    - Volume Level
    - Volume Limit
    - Power On Level
    - Mute Level
  - ZONE3 Setup
    - Bass
    - Treble
    - HPF
    - Lch Level
    - Rch Level
    - Channel
    - Volume Level
    - Volume Limit
    - Power On Level
    - Mute Level
- ❑ Option Setup (page 31 ~ 33)
  - Amp Assign
  - Volume Control
    - Volume Limit
    - Power On Level
    - Mute Level
  - Source Delete
  - On-Screen Display
    - Screensaver
    - Text
    - Master Volume
    - Tuner Information
    - iPod Information
    - Display Mode
  - Quick Select Name
  - Trigger Out
  - Remote ID Setup
  - 2Way Remote
  - Display
  - Setup Lock

## Information (page 41, 42)

- ❑ Status
  - Main Zone
  - ZONE2/ZONE3
- ❑ Audio Input Signal
- ❑ HDMI Information
- ❑ Auto Surround Mode
- ❑ Quick Select
- ❑ Preset Station

## Parameter (page 38 ~ 41)

- ❑ Surround Parameter
  - MODE
  - CINEMA EQ
  - D.COMP
  - DRC
  - LFE
  - CENTER IMAGE
  - PANORAMA
  - DIMENSION
  - CENTER WIDTH
  - DELAY TIME
  - EFFECT
  - LEVEL
  - ROOM SIZE
  - AFDM
  - SB CH OUT
  - SW ATT
  - Subwoofer
  - Default
- ❑ Tone Control
  - Tone Defeat
  - Bass
  - Treble
- ❑ Room EQ
- ❑ RESTORER
- ❑ Night Mode
- ❑ Audio Delay

## Input Setup (page 33 ~ 36)

- ❑ TUNER (FM/AM)
  - Auto Preset
  - Preset Skip
  - Preset Name
  - Input Mode
  - Rename
  - Other
    - Video Select
    - Source Level
- ❑ PHONO
  - Input Mode
  - Rename
  - Other
    - Video Select
    - Source Level
- ❑ CD, DVD, HDP, TV/CBL, SAT, VCR, DVR, V.AUX
  - Assign
  - Input Mode
  - Rename
  - Other
    - Video Select
    - Video Convert (Excluding CDs)
    - Source Level
  - iPod



When "Screensaver" is set to "ON", the screensaver is activated if no operation is performed for about 3 minutes.

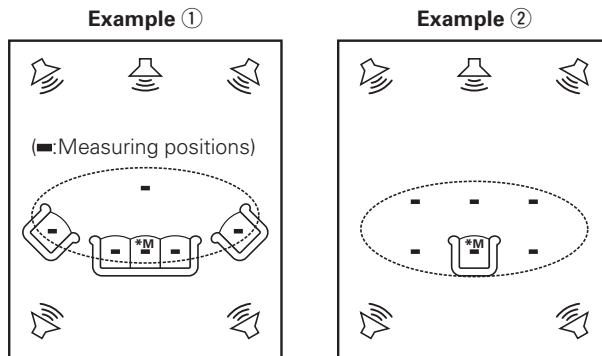
When the  $\Delta \nabla \triangleleft \triangleright$ , **ENTER** or **MENU** button is pressed, the screensaver is canceled and the corresponding operation is performed.

# Auto Setup

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

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

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



## About the main listening position (\*M)

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

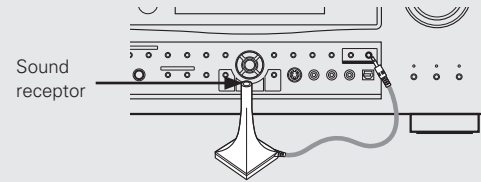


To make manual adjustments to the settings, see pages 26, 27.

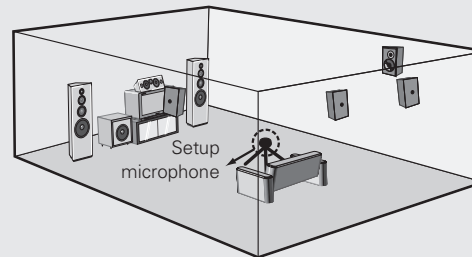
## Preparations

### 1 Connect the included calibrated setup microphone to the SETUP MIC jack on the main unit.

The auto setup screen appears automatically.



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



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



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

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

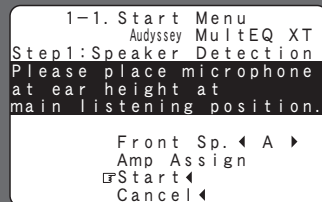
### NOTE

- 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.

### ● Menu screen ●



### 1 Start Menu

The settings are performed automatically.

## Start

Start Auto Setup.

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

Before starting, connect and position all your speakers.

Once started, MultEQ XT will play a series of test tones through each speaker.



If an error message appears during the measurements, check "Error Messages"; take the advised action, then start the measurements again (page 25).

## 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.

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

## Step 1 : Speaker Detection

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

Once the measurements are completed, the results are displayed.

### NOTE

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

## Step 2 : Measurement

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



Measure at least 6 positions (main listening position and at least 5 other surrounding positions). For best results it is recommend measuring **6 or more positions** (with a maximum of 8 positions).

## Step 3 : Calculation

When "Calculate" is selected at "Step 2", the measurements taken are analyzed automatically to determine how the speaker system interacts with the room.



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

## Step 4 : Check

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

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



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

## Step 5 : Store

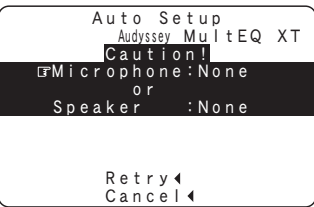
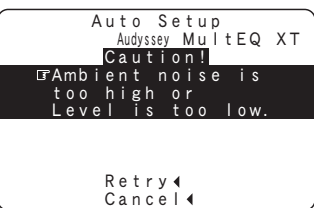
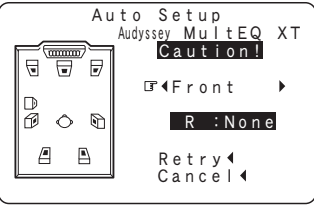
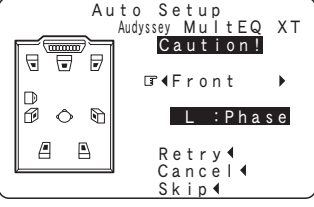
The auto setup measurement results are stored in the AVR-2808.


### NOTE

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

## 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"> <li>Included setup microphone is not connected.</li> <li>Not all speakers could be detected.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the included setup microphone to the <b>SETUP MIC</b> jack on the main unit.</li> <li>Check the speaker connections.</li> </ul>
	<ul style="list-style-type: none"> <li>Too much noise in the room for accurate measurements to be made.</li> <li>Speaker or subwoofer sound is too low for accurate measurements to be made.</li> </ul>	<ul style="list-style-type: none"> <li>Either turn off any device generating noise or move it away.</li> <li>Try again when the surroundings are quieter.</li> <li>Check the speaker installation and the direction in which the speakers are facing.</li> <li>Adjust the subwoofer's volume.</li> </ul>
	<ul style="list-style-type: none"> <li>Displayed speaker could not be detected.                             <ul style="list-style-type: none"> <li>The front L and front R speakers were not properly detected.</li> <li>Only one channel of the surround speakers was detected.</li> <li>Sound was output from the R channel when only one surround back speaker was connected.</li> <li>The surround back speaker was detected, but the surround speaker was not detected.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Check the connections of the displayed speaker.</li> </ul>
	<ul style="list-style-type: none"> <li>Displayed speaker connected with the polarities reversed.</li> </ul>	<ul style="list-style-type: none"> <li>Check the polarities of the displayed speaker.</li> <li>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".</li> </ul>

 Select "Retry" to make the measurements again.

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

## 2 Option

Select settings for room EQ, mic, etc.

### Room EQ

Select room EQ setting method.

#### [Selectable items]

**All** : Apply settings to all surround modes.

**Assign** : Make settings for each surround mode separately.

### Direct Mode Setup

Select room EQ use for DIRECT or PURE DIRECT mode.

#### [Selectable items]

**ON** : Use room EQ.

**OFF** : Do not use room EQ.

### Mic Select

Select the microphone type if not using supplied mic. The microphone connected to V.AUX Lch is used.

#### [Selectable items]

**Mic** : Supplied mic is being used.

**V.AUX L** : Other mic connected to V.AUX is used.



Only a professionally certified installer should ever connect a professionally-calibrated microphone to the V.AUX L input on the front panel.

## 3 Parameter Check

Check auto setup measurement results.

This is displayed after the auto setup procedure is completed.

#### [Items to be checked]

**Speaker Config. Check**

**Distance Check**

**Channel Level Check**

**Crossover Freq. Check**

**EQ Check**



The auto setup results can be reset to what was originally calculated by MultEQ XT when "Restore" is selected.

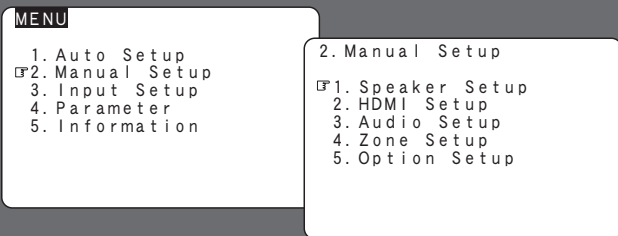
# Manual Setup

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.



- 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 27).
- When "Front Speaker" is set to "Small", "Subwoofer" is 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 using just one surround back speaker, connect it to the left channel (SBL).

## 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.

### Meters / Feet

Select unit for distance.

### 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

Resets 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] **-12dB** ~ **0dB** ~ **+12dB**

## Default

Resets the settings to the default values.


## Operating from the main remote control unit

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

### [Adjusting using test tones]

- Press the **TEST** button.  
Test tones are output from the various speakers.
- Use the **◀ ▶** button to adjust so that the volume is equal for all speakers.
- When the adjustments are completed, press the **TEST** button again.



- When the menu "Speaker Configuration" – "Surround Back Speaker" setting ( page 26) is set to "1spkr", the surround back speaker display is set to "Surround Back Speaker".
- 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 49.

## 5 Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

### [Selectable items]

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


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

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

### Advanced :

Set the crossover frequency separately for the different speakers.



- The "Crossover Frequency" can be set when there are speakers that have been set to "Small" at menu "Speaker Configuration" or when "Subwoofer" is set to "Yes" ( page 26).
- At the "Advanced" settings, if the menu "Subwoofer Setup" setting is set to "LFE", speakers for which "Speaker Configuration" is set to "Small" can be set. If set to "LFE+Main", the 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.

## HDMI Setup

Make settings for HDMI video/audio output.

### ● Menu screen ●

2. Manual Setup

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

2-2. HDMI Setup

1. HDMI Audio Setup  
2. HDMI Video Setup

## 1 HDMI Audio Setup

Make settings for HDMI audio output.

## HDMI Audio Out

Select HDMI audio output device.

### [Selectable items]

**AMP** : Use speakers connected to receiver for audio playback.

**TV** : Use speakers of monitor for audio playback.

## Auto Lipsync

Automatic compensation for timing shift in audio and video output.

### [Selectable items]

**ON** : Use automatic compensation.

**OFF** : Do not use automatic compensation.

## 2 HDMI Video Setup

Make settings for HDMI video output.

### i/p Scaler

Make settings for i/p scaler function.

#### [Selectable items]

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

**OFF** : Do not use i/p scaler function.

### Resolution

Make settings for resolution of HDMI video output signal.

#### [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.

#### [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.

#### [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".

### 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.

### RGB Range

Make settings for RGB output range.

#### [Selectable items]

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

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



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

## Audio Setup

Make settings for audio playback.

### Menu screen

2. Manual Setup

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

2-3. Audio Setup

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

## 1 EXT. IN Subwoofer Level

Set the subwoofer level for playback.

#### [Selectable items]

**0dB** **+5dB** **+10dB** :

Select according to the player in use.

**+15dB** :

This is the recommended level.

## 2 2ch Direct/Stereo

Make speaker settings for 2-channel mode playback.

### Setting

To change the settings, select "Custom".

#### [Selectable items]

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

**Custom** : Make separate settings for 2-channel mode.



## Front

Select front speaker size.

### [Selectable items]

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

## Subwoofer

Select subwoofer use.

### [Selectable items]

**Yes** **No** : Select subwoofer use.

## Subwoofer Mode

Select low range signal to be reproduced by subwoofer.

### [Selectable items]

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

## Crossover

Select crossover frequency from which subwoofer handles low range signal.

### [Selectable items]

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

## Distance FL

Set distance from listening position to front left speaker.

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

## Distance FR

Set distance from listening position to front right speaker.

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

## 3 Dolby Digital Setup

Set dynamic range for downmix playback of Dolby Digital sources.

### [Selectable items]

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

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



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

## 4 Auto Surround Mode

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

### [Selectable items]

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

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



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

## 5 Manual EQ

Adjust tonal quality for each speaker using graphic equalizer.

### Base Curve Copy

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

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



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

### Adjust CH

Select speaker adjustment method.

### [Selectable items]

**Each CH** : Adjust tonal quality for each speaker separately.

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

**ALL CH** : Adjust tonal quality for all speakers together.

## Manual EQ

Select the speaker and frequency band and adjust the level.

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

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

## Default

Resets the settings to the default values.

## Zone Setup

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

● **Menu screen** ●

2. Manual Setup

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

2-4. Zone Setup

1. ZONE2 Setup
2. ZONE3 Setup

### 1 ZONE2 Setup

Make settings for audio playback in a ZONE2 system.

### 2 ZONE3 Setup

Make settings for audio playback in a ZONE3 system.

### Bass

Adjust low frequency range (bass).

[Variable range] **-10dB** ~ **0dB** ~ **+10dB**

### Treble

Adjust high frequency range (treble).

[Variable range] **-10dB** ~ **0dB** ~ **+10dB**

### HPF

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

[Selectable items]

- OFF** : The low range is not attenuated.
- ON** : The low range is attenuated.

### Lch Level

Adjust the left channel output level.

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

### Rch Level

Adjust the right channel output level.

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

### Channel

Switch between stereo and mono output.

[Selectable items]

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



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

### Volume Level

Adjust the main volume level.

[Selectable items]

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



"VAR" is displayed when a power amplifier is assigned to the ZONE2 output channel at menu "Manual Setup" – "Option Setup" – "Amp Assign" (page 31).

### Volume Limit

Make a setting for maximum volume.

[Selectable items]

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

### Power On Level

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

[Selectable items]

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

### Mute Level

Set the amount of attenuation when muting is on.

[Selectable items]

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

## Option Setup

Make various other settings.

### ● Menu screen ●

#### 2. Manual Setup

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

#### 2-5. Option Setup

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

## 1 Amp Assign

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

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

### [Selectable items]

- 7.1ch
- ZONE2
- ZONE3
- ZONE2/3-MONO
- FrontA Bi-Amp
- FrontB Bi-Amp
- 2ch



For details, see "Amp Assign / Multi-zone Connections and Operations" (page 57 ~ 59).

## 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.
- 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.

#### NOTE

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

## 4 On-Screen Display

Make on-screen display related settings.

### Screensaver

Make screensaver settings.

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

#### [Selectable items]

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

### 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 an operation is performed.

### [Selectable items]

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

## iPod Information

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

### [Selectable items]

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

## Display Mode

Select the on-screen display's display mode.

### [Selectable items]

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

## 6 Trigger Out

Select the conditions to turn on the trigger out with respect to the zone, input source, surround mode. For details about the trigger out function, see page 19.

Select "Trigger Out 1" or "Trigger Out 2" and make the settings below respectively.

## Selecting the Zone

Select the zone for which the trigger out is set.

## Setting with Respect to the Input Source

When the input source set to on is selected, the trigger out turns on.

## Setting with Respect to the Surround Mode

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

### [Selectable items]

- ON** : Activate trigger on this mode.  
**---** : Do not activate trigger on this mode.

## 7 Remote ID Setup

Set remote control ID.  
 Match the ID setting of the remote control unit and the receiver.

### [Selectable items]

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

Match the ID setting of the remote control and the receiver.



When changing the remote ID, also change the AMP, iPod and TU modes of the main remote control unit at the same time (page 54).

## 8 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".

## 9 Display

Adjust display brightness of the receiver.

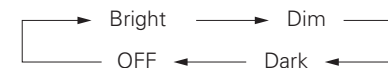
### [Selectable items]

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



### Operating from the main unit

Press the **DIMMER** button.



## 10 Setup Lock

Protect settings from inadvertent change.

### [Selectable items]

**ON** : Turn protection on.

**OFF** : Turn protection off.



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

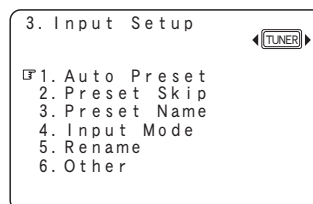
# Input Setup

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

## □ TUNER (AM/FM)

This menu is for "TUNER".

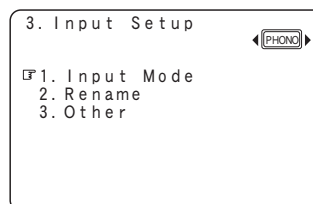
### ● Menu screen ●



## □ PHONO

This menu is for "PHONO".

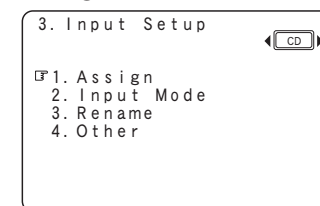
### ● Menu screen ●



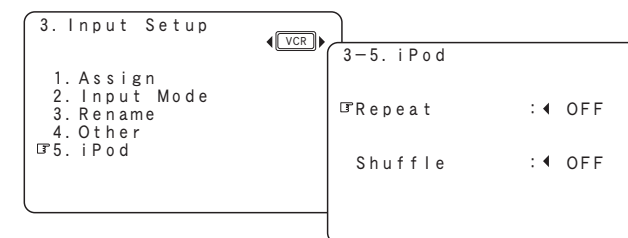
## □ CD, DVD, HDP, TV/CBL, SAT, VCR, DVR, V.AUX

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

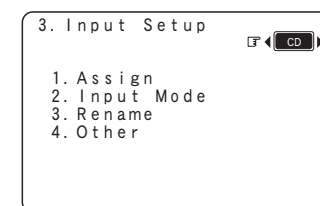
### ● Menu screen ●



※ 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



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

### 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.

### 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.

### 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)**

### 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 35).

### Input Mode

Set the input mode for this source.

[Input source] **TUNER** **PHONO**

#### [Selectable items]

**Analog** : Play only signals from analog input.

**EXT. IN** : Play only signals from EXT. IN input.

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

#### [Selectable items]

**AUTO** : Automatically detect input signal and perform playback.

**HDMI** : Play only signals from HDMI input. Excluding CD.

**Digital** : Play only signals from digital input.

**Analog** : Play only signals from analog input.

**EXT. IN** : Play only signals from EXT. IN input.



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



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

Press the **INPUT MODE** button on the main unit or the **INPUT** button on the main remote control unit.



\*1: This can be selected for input sources for which the menu "Assign" setting is set to "HDMI" (☞ page 35). Excluding CD.

\*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** **DVD** **HDP** **TV/CBL** **SAT** **VCR** **DVR**  
**V.AUX**

#### [Selectable items]

**AUTO** : Detect type of digital input signal and decode and play automatically.

**PCM** : Decode and play only PCM input signals.

**DTS** : Decode and play only DTS input signals.



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

### Rename

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

#### [Characters that can be input]

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

## Assign

Assign input sources to input connectors.

### HDMI

Select HDMI connector to assign to this source.

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

#### [Selectable items]

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

Input source	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	<b>HDMI1</b>	<b>HDMI2</b>	None	None	None	None	None



- With HDMI, the video and audio signals are transferred simultaneously. To play the video signal assigned at "HDMI" combined with the audio signal assigned at "Digital", select "Digital" at menu "Input Setup" – "Input Mode" (page 34).
- When the AVR-2808 and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

### Digital In

Select digital input connector to assign to this source.

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

#### [Selectable items]

- COAX1** : Assign COAXIAL 1 input connector.
- COAX2** : Assign COAXIAL 2 input connector.
- COAX3** : Assign COAXIAL 3 input connector.
- OPT1** : Assign OPTICAL 1 input connector.
- OPT2** : Assign OPTICAL 2 input connector.
- OPT3** : Assign OPTICAL 3 input connector.
- OPT4** : Assign OPTICAL 4 input connector.
- None** : No digital input connector assigned.

Input source	CD	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	<b>COAX 3</b>	<b>COAX 1</b>	None	<b>COAX 2</b>	<b>OPT 1</b>	<b>OPT 3</b>	<b>OPT 2</b>	<b>OPT 4</b>

### Component In

Select component video input to assign to this source.

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

#### [Selectable items]

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

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

### iPod dock

Assign Control Dock for iPod to this source.

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

#### [Selectable items]

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



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

## iPod

Make settings for "iPod" playback.

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

### Repeat

Make settings for repeat mode.

#### [Selectable items]

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

## Shuffle

Make settings for shuffle mode.

### [Selectable items]

**Songs** : Shuffle all songs.

**Albums** : Shuffle songs from current album only.

**OFF** : Cancel shuffle mode.



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

## Other

Make various other settings.

## Video Select

Switch video input source while listening to audio signal.

### [Selectable items]

**DVD** **HDP** **TV/CBL** **SAT** **VCR** **DVR** **V.AUX** :

Select video input source to view.

**Source** :

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



### Operating from the main unit

Press the **VIDEO SELECT** button, then turn the **SOURCE SELECT** knob until the desired picture appears.

※ To cancel, press the main unit's **VIDEO SELECT** button, then turn the main unit's **SOURCE SELECT** knob and select "Source".

### NOTE

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

## Video Convert

Automatically convert video input signal to monitor output format.

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

### [Selectable items]

**ON** : Enable conversion.

**OFF** : Disable conversion.

### NOTE

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

## 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" and "Digital" are set at the menu "Assign" setting, the analog input level and digital input level can be set separately.

# Surround Modes

## Standard Playback

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

To select these surround modes pressing the **STANDARD** button on the main unit or press the **STD** button on the main remote control unit. The mode switches each time the button is pressed.

## Surround Playback of 2-channel Sources

When using a surround back speaker

[Selectable items] **DOLBY PLIIx** **DTS NEO:6**

When not using a surround back speaker

[Selectable items] **DOLBY PLII** **DTS NEO:6**

### DOLBY PLIIx or DOLBY PLII

: The signals are decoded in DOLBY PLIIx or DOLBY PLII for playback.

#### Cinema

: This mode is suited for movie sources.

#### Music

: This mode is suited for music sources.

#### Game

: This mode is suited for games.

#### Pro Logic

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

### DTS NEO:6

: The signals are decoded in DTS NEO:6 for playback.

#### Cinema

: This mode is suited for movie sources.

#### Music

: This mode is suited for music sources.



Select the "Cinema", "Music", "Game" and "Pro Logic" modes at menu "Parameter" - "Surround Parameter" - "MODE" (page 38).



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

### [Selectable items]

#### STANDARD :

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

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

Input signal		Display
Dolby Digital Source	DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX	DOLBY DIGITAL
		DOLBY DIGITAL EX
		DOLBY DIGITAL+PLIIx CINEMA
	DOLBY DIGITAL+PLIIx MUSIC	
DOLBY DIGITAL Plus	DOLBY DIGITAL +	
DOLBY TrueHD	DOLBY TrueHD	
DTS Surround Source	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 High Resolution Audio	DTS-HD HI RES
DTS-HD Master Audio	DTS-HD MSTR	
DVD-Audio, SACD	PCM (multi ch) / DSD (multi ch)	MULTI CH IN
		MULTI IN+PLIIx CINEMA
		MULTI IN+PLIIx MUSIC
		MULTI CH IN 7.1

\*1 : This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-2808's "AFDM" setting is set to "ON".

\*2 : This is displayed when the input signal is "DTS-ES Discrete 6.1".

\*3 : This is displayed when the input signal is "DTS 96/24".



For details, see page 66.

## DSP Simulation Playback

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

The surround parameters can be adjusted (page 64, 65) to achieve an even more realistic, powerful sound field.

### [Selectable items]

**7CH STEREO** : This mode is for enjoying stereo sound from all speakers.

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

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

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

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

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

**MONO MOVIE** \* : This mode is for playing monaural movie sources with surround sound.

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

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

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

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



• Press the **DSP SIMULATION** button on the main unit or **SIMU** button on the main remote control unit to switch the surround mode.

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

## Stereo Playback

### [Selectable items]

#### STEREO :

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



The mode switches between DIRECT and STEREO each time the **DIRECT/STEREO** button on the main unit or the **D/ST** button on the main remote control unit is pressed.

## Direct Playback

### [Selectable items]

#### DIRECT :

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

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

The display when the DIRECT mode is selected depends on the input signal.

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

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

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



For details, see page 67.

### Playback in the PURE DIRECT Mode

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

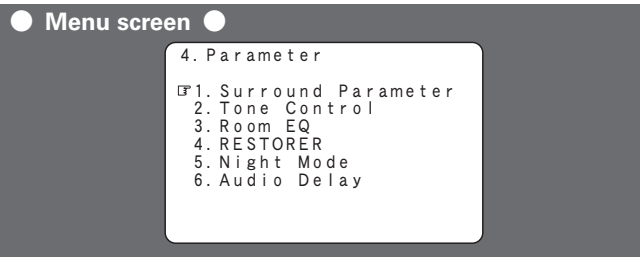
Press the **PURE DIRECT** button on the main unit or the **PURE** button on the main remote control unit.



- When in the PURE DIRECT mode, the menu screen 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

Parameters can be called out directly by pressing the **PARA** button on the main remote control unit.



### 1 Surround Parameter

Adjust surround sound parameters.  
The adjustable parameters differ for the different surround modes (see page 64, 65).

## MODE

Select the mode according to the playback source.

- In the PLIIx mode

[Selectable items]

**PLIIx CINEMA** **PLIIx MUSIC** **PLIIx GAME**

- In the PLII mode

[Selectable items]

**PLII CINEMA** **PLII MUSIC** **PLII GAME** **DOLBY PL**

- In the DTS NEO:6 mode

[Selectable items]

**CINEMA** **MUSIC**

**CINEMA** : Surround sound mode optimized for movie sources.

**MUSIC** : Surround sound mode optimized for music sources.

**GAME** : Surround sound mode optimized for games.

**PL** : Dolby Pro Logic playback mode.



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

## CINEMA EQ

Softens the treble range of movie soundtracks for better understanding.

[Selectable items]

**ON** : CINEMA EQ is used.

**OFF** : CINEMA EQ is not used.

## D.COMP

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

[Selectable items]

**OFF** : Turn dynamic range compression off.

**LOW** : Low setting.

**MID** : Middle setting.

**HIGH** : High setting.



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

## DRC

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

[Selectable items]

**AUTO** : Automatic dynamic range compression on/off control according to source.

**LOW** : Low setting.

**MID** : Middle setting.

**HIGH** : High setting.

**OFF** : Dynamic range compression always off.



This can be set in the Dolby TrueHD mode.

## LFE

Adjust the low-frequency effects level (LFE).

[Variable range] **-10dB** ~ **0dB**



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

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

## CENTER IMAGE

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

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

## 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**

## DIMENSION

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

[Variable range] **0** ~ **3** ~ **6**

## CENTER WIDTH

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

[Variable range] **0** ~ **3** ~ **7**

## DELAY TIME

Adjust delay time to control sound stage size.

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

## EFFECT

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

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

## LEVEL

Adjust effect signal level.

[Variable range] **1** ~ **10** ~ **15**



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

## ROOM SIZE

Determine size of acoustic environment.

### [Selectable items]

**small** : Simulate acoustics of a small room.

**med. s**

**medium**

**med. l**

**large** : Simulate acoustics of a large room.



### NOTE

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

## AFDM (Auto Flag Detect Mode)

Auto-select surround mode by source.

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

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

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

### Example : Playing Dolby Digital software (with EX flag)

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



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

## SB CH OUT (for Multi-channel sources)

Select playback mode for surround back channels.

### [Selectable items]

**OFF** : No signal is played from the surround back channels.

**NON MTRX** : The same signals as those of the surround channels are output from the surround back channels.

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

**PLIIx CINEMA** \*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 "2spkr" at the menu "Manual Setup" - "Speaker Setup" - "Speaker Configuration" setting (page 26).

\*2: This can be selected when "Surround Back Speaker" is set to "2spkr" or "1spkr" at the menu "Manual Setup" - "Speaker Setup" - "Speaker Configuration" setting.

\*3: This can be selected when playing DTS sources.

\*4: This can be selected when playing DTS sources including a discrete 6.1-channel signal identification signal.

### SB CH OUT (for 2-channel sources)

Determine whether to use surround back speakers.

#### [Selectable items]

**ON** : The surround back channel signal is played.

**OFF** : The surround back channel signal is not played.



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

### SW ATT (Subwoofer Attenuate)

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 Super Audio CD.

### Subwoofer

Turn subwoofer output on and off.

#### [Selectable items]

**ON** : The subwoofer is used.

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

### Default

Resets the settings to the default values.

## 2 Tone Control

Adjust the tonal quality of the sound.

### Tone Defeat

Turn tone adjustments off.

#### [Selectable items]

**ON** : Playback without tone control.

**OFF** : Allow tone control (treble, bass).



The tone cannot be adjusted when in the DIRECT mode.

### Bass

Adjust low frequency range (bass).

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

### Treble

Adjust high frequency range (treble).

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



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

## 3 Room EQ

Select room equalizer for current environment.

#### [Selectable items]

**Audyssey** : Optimize frequency response of all speakers.

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

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

**Manual** : Apply frequency response set with "Manual EQ" (page 29).

**OFF** : Turn equalizer off.



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

Press the **ROOM EQ** button on the main unit or the **EQ** button on the main remote control.



When "Audyssey" is selected, "AUDYSSEY MULTEQ XT" lights.

When "Audyssey Byp. L/R" or "Audyssey Flat" is selected, or when the auto setup measuring results have changed, "AUDYSSEY MULTEQ XT" lights.



- "Audyssey"; "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after the auto setup procedure has been performed.
- If the settings of the speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey"; "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected and measurements have to be taken again to include the newly-added speakers.
- When using headphones, "Room EQ" is always set to "OFF".

## 4 RESTORER

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

### [Selectable items]

**OFF** :

Do not use RESTORER.

**Mode1** (RESTORER 64):

Optimized mode for compressed sources with very weak highs.

**Mode2** (RESTORER 96):

Apply suitable bass and treble boost for all compressed sources.

**Mode3** (RESTORER HQ):

Optimized mode for compressed sources with normal highs.

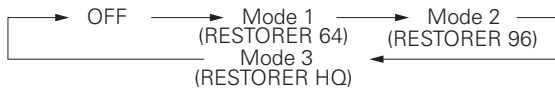
The default setting for "iPod" is "Mode3". All others are set to "OFF".



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

During playback, press the **RESTORER** button on the main unit or the **RSTR** button on the main remote control unit.

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



### About the RESTORER function

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

## 5 Night Mode

Optimized setting for late-night listening.

### [Selectable items]

**OFF** : Turn night mode off.

**LOW** : Low setting.

**MID** : Middle setting.

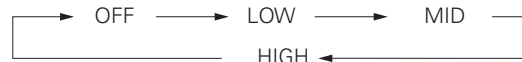
**HIGH** : High setting.



### Operating from the main remote control unit

Press the **NGT** button.

The "**NIGHT**" indicator lights when "LOW", "MID" or "HIGH" is selected.



## 6 Audio Delay

Compensate for mismatched timing between video and audio.

Delay audio.

This sets the delay time for audio signals.

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

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



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

※ When set using the procedure below, the on-screen display is not displayed. Adjust while watching the display.

- Press the **AUDIO DELAY** button on the main unit or the **A. DL** button on the main remote control unit.
- Use the  $\triangleleft \triangleright$  button to set.



- This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large", "Tone Defeat" to "ON" and "Room EQ" to "OFF").
- The adjustment range is 0 to 100 ms when the Auto Lipsync Correction function is activated.

# Information

## 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 : **PHONO**  
Name : Record  
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** **Room EQ**

**Night Mode** **RESTORER** etc.

## 2 ZONE2 / ZONE3

Shows information about settings for multi-zone.

### [Items to be checked]

**Power** **Select Source** **Volume Level**

## Audio Input Signal

Shows information about audio input signals.

### ● Menu screen ●

5. Information

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

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.

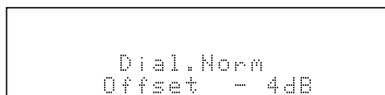
**Offset** : The dialogue normalization correction value is displayed.

**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 the **STATUS** button on the main unit.



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

## HDMI Information

Shows information about HDMI input signal and monitor.

### ● Menu screen ●

5. Information

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

5-3. HDMI Signal Info.

Resolution  
480p

Color Space  
RGB 4:4:4

Pixel Depth  
8bits

### 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
6. Preset Station

5-4. Auto Surround Mode

[Analog] [PCM]  
2CH: STEREO

[Multi ch]  
: MULTI CH IN

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

### [Items to be checked]

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

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



For instructions on storing settings at Quick Select 1 to 3, see page 50.

## 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]

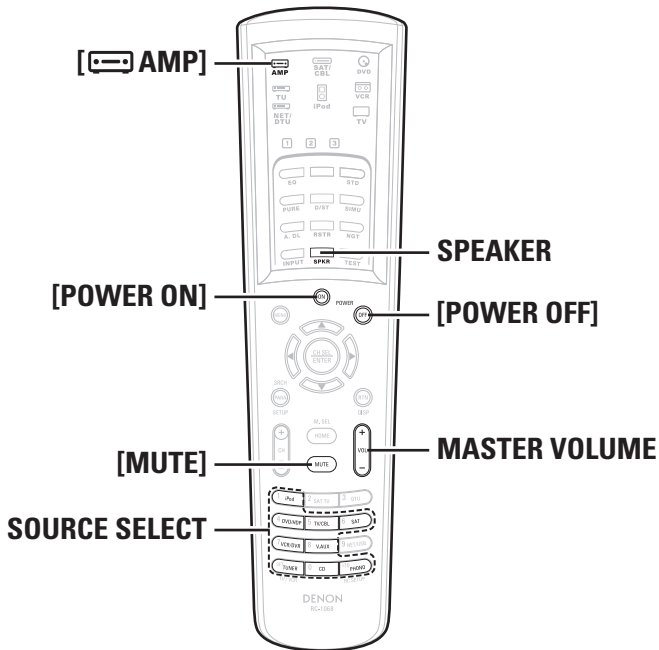
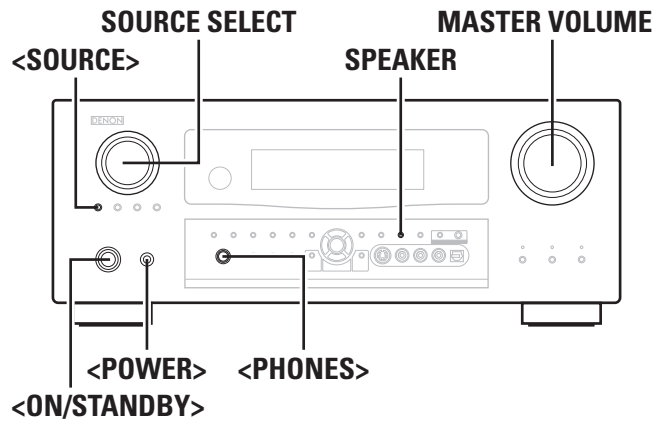
**TUNER**

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



### Operating from the main unit

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



**About the button names in these explanations**

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

**Button name only:**

Buttons on the main unit and remote control unit

# Playback

## Preparations

### Turning the Power On

- 1** Press **<POWER>**.  
The power indicator lights red and the power is set to the standby mode.
- 2** Press **<ON/STANDBY>** or **[POWER ON]**.  
The power indicator flashes green and the power turns on.

To operate the AVR-2808 using the main remote control unit, set the remote control unit to the AMP mode (page 51 "Remote Control Unit Operations").

### Turning the Power Off

- ① Press **<ON/STANDBY>** or **[POWER OFF]**.  
The power is set to the standby mode.
- ② Press **<POWER>**.  
The power indicator turns off, and so does the power.

**NOTE**

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

## Selecting the Input Source

### Operation on the Main Unit

Turn **<SOURCE SELECT>**.

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

### Operation on the Main Remote Control Unit

Press **[SOURCE SELECT]**.  
The desired input source can be selected directly.



To operate the AVR-2808 using the main remote control unit, set the remote control unit to the AMP mode (page 51 "Remote Control Unit Operations").

## Operations During Playback

### Adjusting the Master Volume

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

### Turning Off the Sound Temporarily (Muting)

Press **[MUTE]**.



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

### Listening with Headphones

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

**NOTE**

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

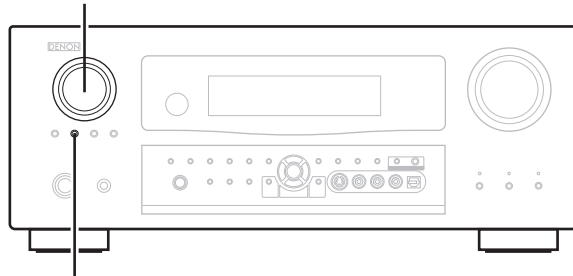
### Switching the Front Speakers

Press **SPEAKER**.

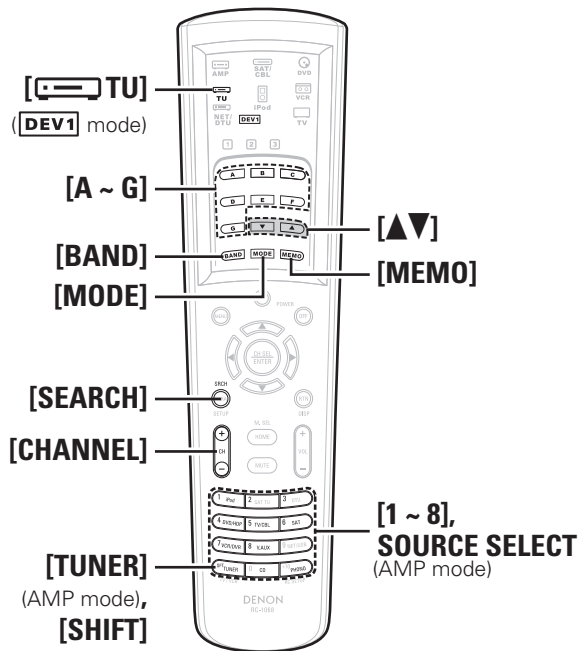


Getting Started  
Connections  
Setup  
Playback  
Remote Control  
Multi-Zone  
Information  
Troubleshooting

**SOURCE SELECT**



<TUNING PRESET>



**About the button names in these explanations**

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

**Button name only:**

Buttons on the main unit and remote control unit

**Playing Video and Audio Equipment**

**Basic Operation**

**1 Prepare the equipment.**

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

**2 To operate using the main remote control unit, set the remote control unit to the AMP mode.**

(☞ page 51 "Remote Control Unit Operations")

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

**4 Start playback.**

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

**Listening to FM/AM Broadcasts**

**Basic Operation**

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

**2 To operate using the main remote control unit, set the remote control unit to the TUNER ([DEV1] mode).**

(☞ page 51 "Remote Control Unit Operations")

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

**4 Tune in the desired broadcast station.**

**① To tune in automatically (Auto Tuning)**

Press [MODE] to light the "AUTO" indicator on the display, then use [▲▼] to select the station you want to hear.

**② To tune in manually (Manual Tuning)**

Press [MODE] to turn off the display's "AUTO" indicator, then use [▲▼] to select the station you want to hear.



- It is also possible to switch to "FM" or "AM" in step 1 by pressing [TUNER].
- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold [▲▼] to change frequencies continuously.
- The time for which the menus are displayed can be set at menu "Manual Setup" – "Option Setup" – "On-Screen Display" (☞ page 31, 32).

**Presetting Radio Stations (Preset Memory)**

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

**1 Tune in the broadcast station you want to preset.**

**2 Press [MEMO].**

**3 Press [A ~ G] to select the block in which the station is to be preset, then press [CHANNEL] or [1 ~ 8] to select the preset number.**

※ The memory block can also be selected by pressing [SHIFT].

**4 Press [MEMO] again to complete the setting.**



- To preset other stations, repeat steps 1 to 4.
- Stations can be preset automatically at menu "Input Setup" – "Auto Preset" (☞ page 34).

**NOTE**

Preset stations are erased by overwriting them.



## Listening to Preset Stations

### Operation on the Main Unit

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

### Operation on the Main Remote Control Unit

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

**2** Press **[CHANNEL]** or **[1 ~ 8]** to select the desired preset channel.

#### □ Default settings

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

## 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:

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

### Traffic Program (TP)

TP identifies programs that carry traffic announcements.

This allows you to easily find out the latest traffic conditions in your area before leaving home.

### Radio Text (RT)

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

#### NOTE

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

## RDS Search

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

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

**2** To operate using the main remote control unit, set the remote control unit to the **TUNER (DEV1)** mode. (☞ page 51 "Remote Control Unit Operations")

**3** Press **[SEARCH]** to select **"RDS"**.

**4** Press **[CHANNEL]**.

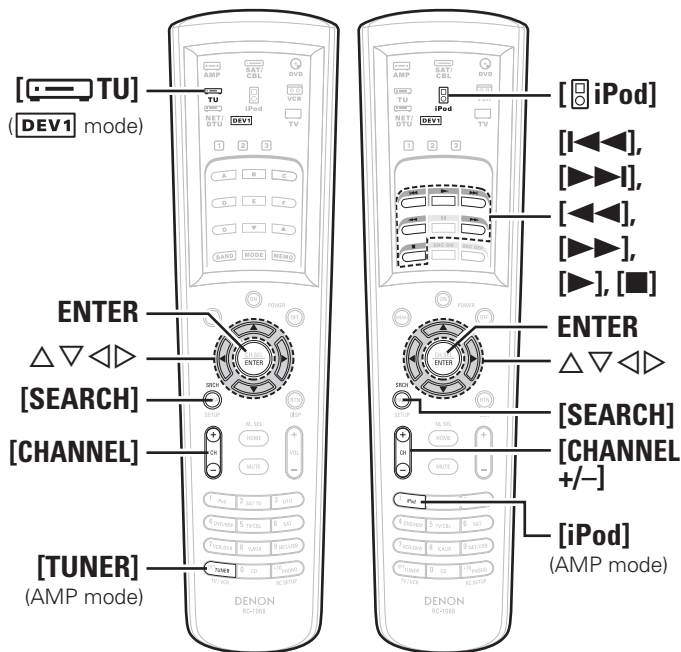
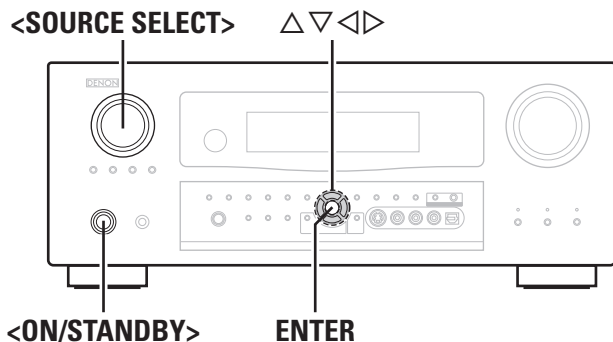
The search for RDS stations begins automatically.

※ If no RDS stations are found with the above operation, all the reception bands are searched.

※ When a broadcast station is found, that station's name appears on the display.

**5** To continue searching, repeat steps 2 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]** (AMP mode) to select "TUNER".
- 2** To operate using the main remote control unit, set the remote control unit to the **TUNER (DEV1)** mode. (page 51 "Remote Control Unit Operations")
- 3** Press **[SEARCH]** to select "PTY".
- 4** Watching the display, press  $\Delta \nabla$  to call out the desired program type.  
 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.
- 5** Press **[CHANNEL]**.  
 TP search begins automatically.  
 ※ If no TP station is found with the above operation, all the reception bands are searched.  
 ※ The station name is displayed on the display after searching stops.
- 6** To continue searching, repeat steps 2 to 4.  
 ※ If no station broadcasting the designated program type is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

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

- 1** Either turn **<SOURCE SELECT>** or press **[TUNER]** (AMP mode) to select "TUNER".
- 2** To operate using the main remote control unit, set the remote control unit to the **TUNER (DEV1)** mode. (page 51 "Remote Control Unit Operations")
- 3** Press **[SEARCH]** to select "TP".
- 4** Press **[CHANNEL]**.  
 TP search begins automatically.  
 ※ If no TP station is found with the above operation, all the reception bands are searched.  
 ※ The station name is displayed on the display after searching stops.
- 5** To continue searching, repeat steps 2 to 3.  
 ※ If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

**About the button names in these explanations**  
 < > : Buttons on the main unit  
 [ ] : Buttons on the remote control unit  
**Button name only:**  
 Buttons on the main unit and remote control unit

## RT (Radio Text)

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

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

**2** To operate using the main remote control unit, set the remote control unit to the **TUNER (DEV1)** mode.  
(☞ page 51 "Remote Control Unit Operations")

**3** Press **[SEARCH]** to select "RT".

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

※ To turn the display off, press **<▷>**.

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

## iPod® Playback

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

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



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

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

## Basic Operation

**1** Make the necessary preparations.

① Set the iPod in the DENON Control Dock for iPod.

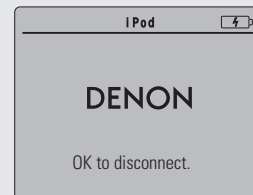
(☞ See the Control Dock for iPod's operating instructions.)

② Assign the Control Dock for iPod's input.

**MENU : "Input Setup" – "Assign" – "iPod dock"**

(☞ page 35)

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



(iPod screen)

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

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

(☞ page 51 "Remote Control Unit Operations")



- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is "Mode3".
- Press **<ON/STANDBY>** and set the AVR-2808's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the menu "iPod dock" is not assigned before disconnecting the iPod.

### NOTE

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

## Listening to Music

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

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

### Stopping playback temporarily

During playback, press **ENTER** or **[▷]**.

Press again to resume playback.

### Fast-forwarding or fast-reversing

During playback, either press and hold **△** (to fast-reverse) or **▽** (to fast-forward), or press **[◀◀]** or **[▶▶]**.

### To cue to the beginning of a track

During playback, either press **△** (to cue to the previous track) or **▽** (to cue to the next track), or press **[I◀◀]** or **[▶▶I]**.

### To stop

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

### Playing repeatedly

Press **[CHANNEL -]**.

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

**MENU : "Input Setup" – "iPod" – "Repeat"** (☞ page 35)

**Shuffling playback**

Press [CHANNEL +].

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

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

**Searching up or down pages**

Press [SEARCH], then press ◀ (down) or ▶ (up).  
To cancel, press △▽ or [SEARCH].

**To switch between the Browse and Remote modes**

Either press and hold [SEARCH].



- The title name, artist name and album name can be checked by pressing <STATUS> during playback.
- On the AVR-2808, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with ". (period)".
- The time for which the menus are displayed can be set at menu "Manual Setup" – "Option Setup" – "On-Screen Display" – "iPod Information" (☞ page 32).

**Viewing Still Pictures or Videos on the iPod**

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

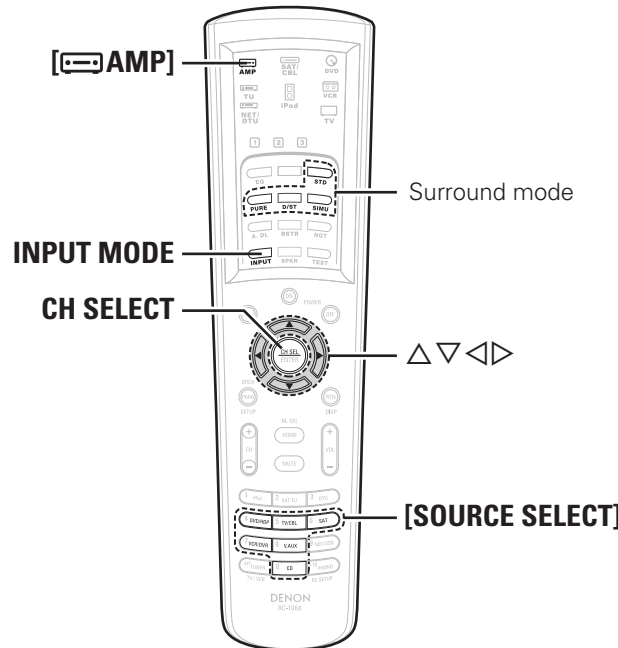
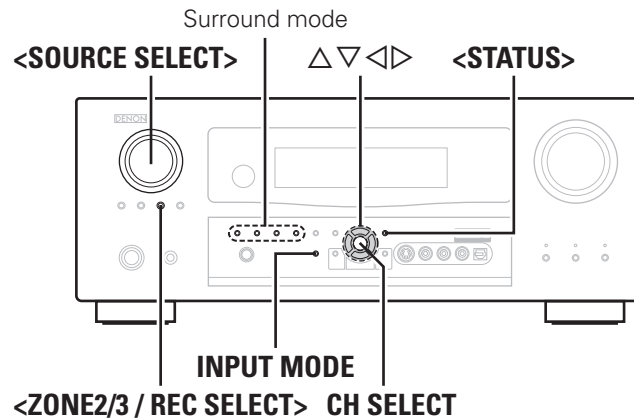
**1 Press and hold [SEARCH] to set the Remote mode.**  
"Remote iPod" is displayed on the AVR-2808's display.

**2 Watching the iPod's screen, use △▽ to select "Photos" or "Videos".**

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



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



**About the button names in these explanations**  
 < > : Buttons on the main unit  
 [ ] : Buttons on the remote control unit  
**Button name only:**  
 Buttons on the main unit and remote control unit

**Other Operations and Functions**

**Other Operations**

**Playing Super Audio CD**

**1** Assign the HDMI input connector at the "HDMI" setting (☞ page 35).

**2** Either turn <SOURCE SELECT> or press [SOURCE SELECT] to select the input source assigned in step 1.  
The "HDMI" indicator lights on the display.

**3** Use INPUT MODE to select "AUTO" (☞ page 34).  
Select the input mode according to the program source to be played.

**4** Select the surround mode (☞ page 36 ~ 38).  
We recommend playing in the DIRECT mode.

**5** Start playing the Super Audio CD.  
The "DSD" indicator lights on the display.  
For operating instructions, refer to the respective equipment's operating instructions.



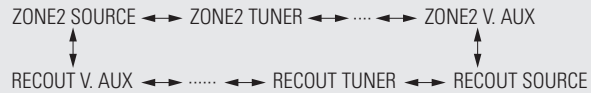
- When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted as such into analog signals. When playing in other surround modes, the DSD signals are first converted into PCM format, then into analog signals.
- "DSD DIRECT" is shown on the display when playing DSD 2-channel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

## Recording on an External Device (REC OUT mode)

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

### 1 Press <ZONE2/3 / REC SELECT>.

"ZONE2 SOURCE" is shown on the display.



### 2 Turn <SOURCE SELECT> until "RECOUT SOURCE" is displayed.

The "REC" indicator lights.

### 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 44).

### 5 Start recording.

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



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

## NOTE

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

## Convenient Functions

### Channel Level

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

#### 1 Press CH SELECT.

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 ∇ or CH SELECT 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.

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

## Fader Function

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

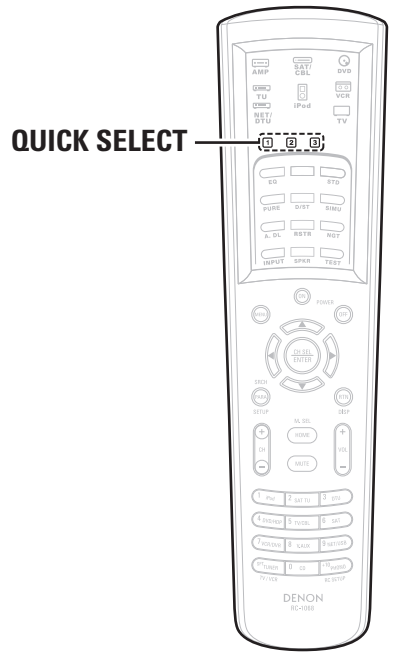
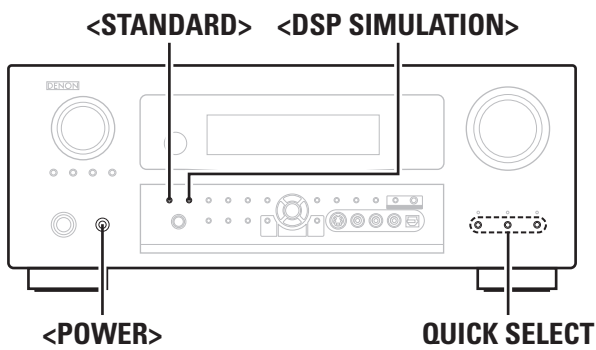
### 1 Press CH SELECT.

### 2 Press Δ ∇ or CH SELECT 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, room EQ settings and volume can be stored in the memory.

- 1 Set the input source, input mode, surround mode, room EQ settings and volume to the conditions you want to store.
- 2 Press and hold the desired **QUICK SELECT**. Keep pressing the button until the quick select indicator lights.

[Quick Select Defaults]

	Input Source	Volume
<b>Quick Select 1</b>	DVD	-40 dB
<b>Quick Select 2</b>	TV/CBL	-40 dB
<b>Quick Select 3</b>	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 32).

**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 31). In this case, store them again.

### Personal Memory Plus Function

This function sets the settings (input mode, surround mode, etc.) last selected for the individual input sources. When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.

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

### Last Function Memory

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

### Backup Memory

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

### Resetting the Microprocessor

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

- 1 Turn off the power using **<POWER>**.
- 2 Press **<POWER>** while simultaneously pressing **<STANDARD>** and **<DSP SIMULATION>**.
- 3 Once the display starts flashing at intervals of about 1 second, release the two buttons.

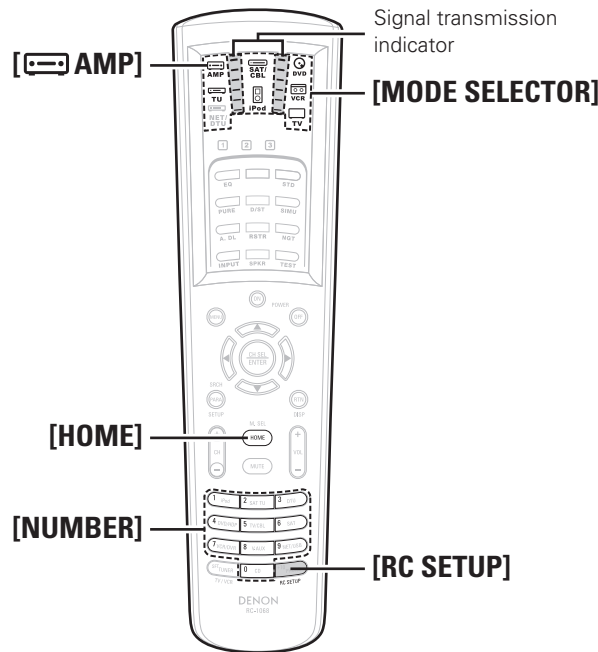
If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

**About the button names in these explanations**  
 < > : Buttons on the main unit  
 [ ] : Buttons on the remote control unit  
**Button name only:**  
 Buttons on the main unit and remote control unit

# Remote Control Unit Operations

## Main Remote Control Unit

- On the main remote control unit, the display switches according to the device being operated and the mode.
- In modes other than iPod, the mode switches between "DEV1" and "DEV2" each time the [MODE SELECTOR] is pressed.
- In the AMP, TUNER and iPod modes, when the remote ID is set, the AVR-2808 can be used independently even in an environment containing multiple DENON amplifiers.



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

**NOTE**

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

## Operating DENON Audio Components

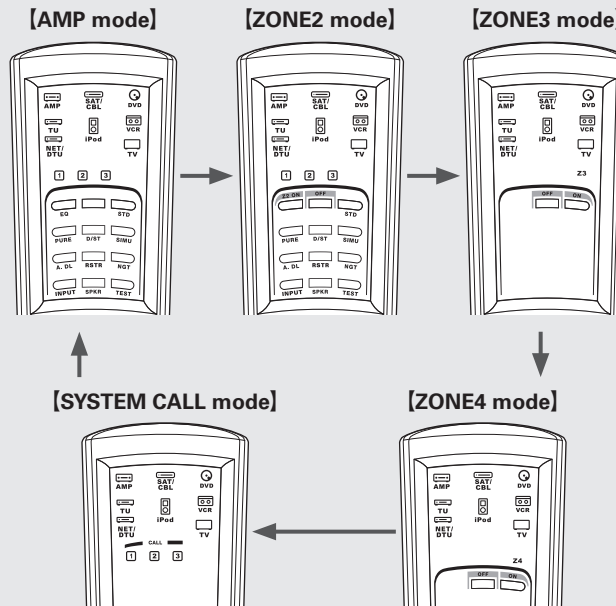
**1** Press [MODE SELECTOR] for the component to be operated.

The indicator for the component to be operated flashes.

- : AMP / ZONE2 / ZONE3 / ZONE4 / SYSTEM CALL
- : TUNER (FM/AM)
- : NET/USB / DIGITAL TUNER
- : Satellite Receiver / Cable TV
- : iPod
- : DVD player (Recorder) / CD player (Recorder)
- : VCR / TAPE
- : TV

※ The TUNER (DEV2), NET/DTU (DEV1) and DEV2 mode is not used on the AVR-2808, so use the learn function to store the signals (page 54).

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



**2** Operate the component.

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



[HOME] is used to return to the AMP mode (AMP, ZONE2, ZONE3, ZONE4 or SYSTEM CALL) when in any mode other than AMP.

## Presetting

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

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

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

**3** Press [NUMBER] and input the 5-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (End of this manual).

When the code is registered, the signal transmission indicator flashes twice.

When the preset code is transmitted, the mode indicator for the component to which that code belongs flashes.

※ The input mode is canceled if no button is operated for 10 seconds.



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

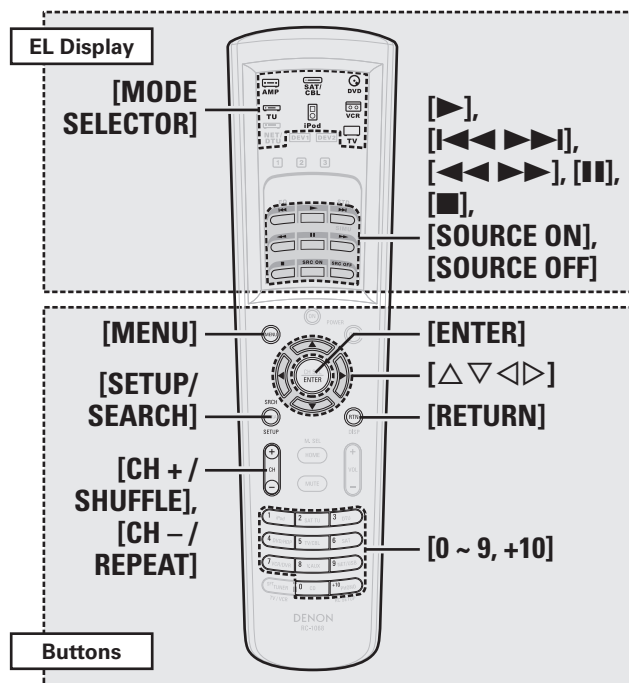
## Operating Preset Components

**1** Press [MODE SELECTOR] for the component to be operated. The mode indicator of the device to be operated flashes.

**2** Operate the component.

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

Functions of Buttons by Component



EL Display							
MODE SELECTOR	DVD				VCR		iPod
Device Mode	DEV1		DEV2		DEV1	DEV2	DEV1
Device operated	DVD (Default setting)	DVD Recorder	CD (Default setting)	CD Recorder	VCR	TAPE	iPod
▶	Playback	Playback	Playback	Playback	Playback	Playback	Playback/Pause
◀▶▶▶	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)
◀▶▶	Manual search (fast-reverse/fast-forward)	Manual search (fast-reverse/fast-forward)	Manual search (fast-reverse/fast-forward)	Manual search (fast-reverse/fast-forward)	Manual search (fast-reverse/fast-forward)	Manual search (fast-reverse/fast-forward)	Manual search (fast-reverse/fast-forward)
⏸	Pause	Pause	Pause	Pause	Pause	Pause	–
■	Stop	Stop	Stop	Stop	Stop	Stop	Stop
SOURCE ON	Power on	Power on	–	–	Power on	–	–
SOURCE OFF	Power off	Power off	–	–	Power off	–	–
Buttons							
MENU	Menu/guide	Menu/guide	–	–	Menu/guide	–	Menu
△ ▽ ◀ ▶	Cursor	Cursor	–	–	Cursor	–	Cursor
ENTER	Enter setting	Enter setting	–	–	Enter setting	–	Enter
SETUP/SEARCH	Set up	Set up	–	–	Set up	–	Page forward screen / Browse/ Remote mode switching (Press and hold)
RETURN	Return	Return	–	–	Cancel	–	Return
CH + / SHUFFLE	–	–	–	–	Switch channels	–	1-track/album shuffle play
CH - / REPEAT	–	–	–	–	Switch channels	–	1-track/All-track repeat play
0 ~ 9, +10	Select track	Select track	Select track	Select track	–	–	–
Special Remarks	①, ②		①		①	①	–

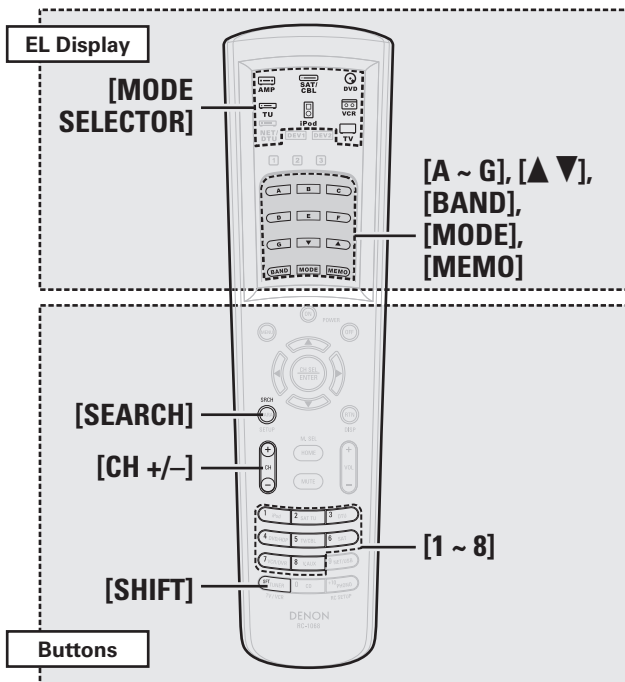
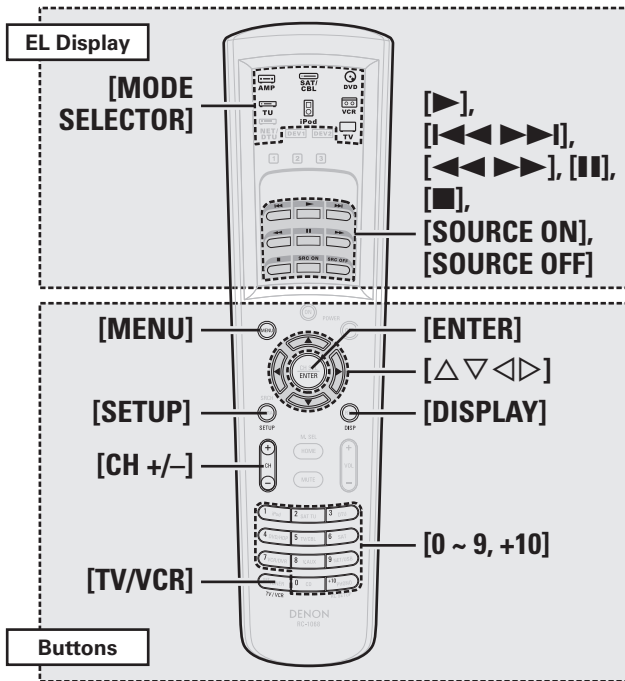
**[Special Remarks]**

- ① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.
- ② The names of the functions for the DVD remote control buttons differ from brand to brand. Check beforehand.

**NOTE**

- Preset a DVD player or DVD recorder for the DVD (**DEV1**) mode. Preset a CD player or CD recorder for the DVD (**DEV2**) mode.
- Preset a VCR for the VCR (**DEV1**) mode. Preset a tape deck for the VCR (**DEV2**) mode.



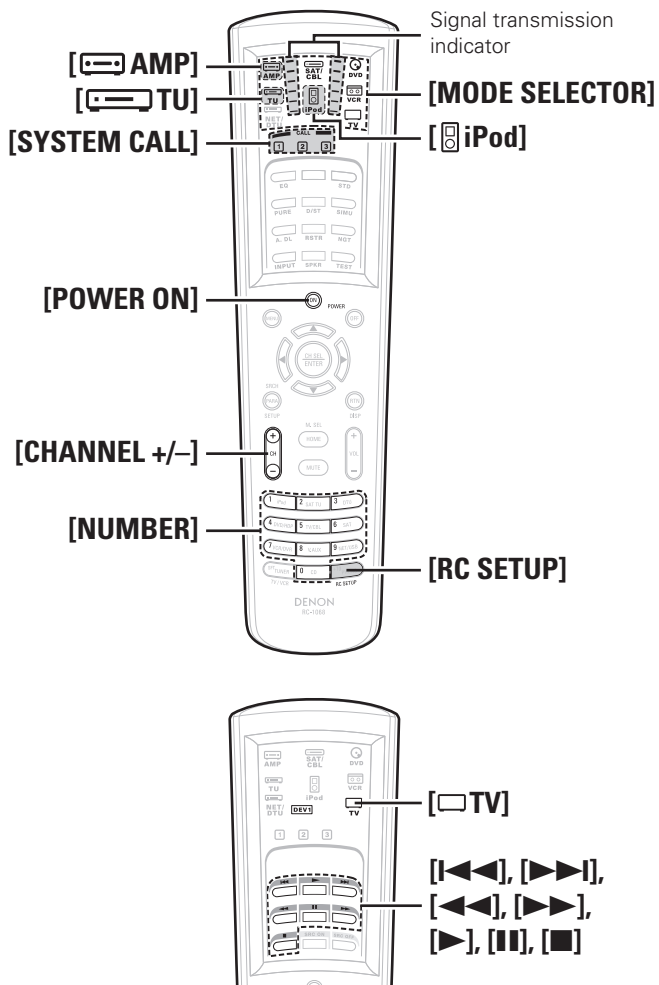


EL Display				
MODE SELECTOR	TV		Satellite Receiver / Cable TV	
Device Mode	<b>DEV1</b>	<b>DEV2</b>	<b>DEV1</b>	<b>DEV2</b>
Device operated	TV (HITACHI)	TV (SONY)	SAT	SAT
	Punch through	Punch through	Punch through	Punch through
<b>SOURCE ON</b>	Power on	Power on	Power on	Power on
<b>SOURCE OFF</b>	Power off	Power off	Power off	Power off
Buttons				
<b>MENU</b>	Menu/guide	Menu/guide	Menu/guide	Menu/guide
Δ ∇ ◀ ▶	Cursor	Cursor	Cursor	Cursor
<b>ENTER</b>	Enter setting	Enter setting	Enter setting	Enter setting
<b>SETUP</b>	Set up	Set up	Set up	Set up
<b>DISPLAY</b>	Display	Display	Display	Display
<b>CH +/-</b>	Switch channels	Switch channels	Switch channels	Switch channels
<b>0 ~ 9, +10</b>	Channel selection	Channel selection	Channel selection	Channel selection
<b>TV/VCR</b>	Switch inputs	Switch inputs	-	-
<b>Special Remarks</b>	①, ③	①, ③	①, ③	①, ③

**[Special Remarks]**

- ① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.
- ③ The CD, VCR or DVD buttons (one only set) can be assigned to the TV, satellite receiver and cable TV mode (refer page 55 "Punch Through Function").

EL Display	
MODE SELECTOR	TU
Device Mode	<b>DEV1</b>
Device operated	<b>Analog tuner</b>
<b>A ~ G</b>	Preset memory block selection
<b>▲ ▼</b>	Tuning + / -
<b>BAND</b>	AM/FM switching
<b>MODE</b>	Switch search modes
<b>MEMO</b>	Preset memory registration
Buttons	
<b>SEARCH</b>	RDS search
<b>CH +/-</b>	Preset channel selection
<b>1 ~ 8</b>	Preset channel selection (1 ~ 8)
<b>SHIFT</b>	Switch memory block



### Setting the Remote ID

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

- 1** Press **[AMP]** to set the main remote control unit to the AMP mode.
- 2** Press and hold in **[RC SETUP]** for at least 3 seconds. The signal transmission indicator flashes twice.

- 3** Refer to the table at the below, and use **[NUMBER]** to input the 5-digit number corresponding to the remote ID to be changed. The signal transmission indicator flashes twice.

- 4** Press **[TU]** (**[DEV1]** mode) or **[iPod]** to select the mode to be set.

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

MODE SELECTOR Remote ID	AMP (MAIN)	TUNER	iPod
		<b>[DEV1]</b> (Analog TUNER)	
1 (Default)	81001	52863	72815
2	82001	52795	72816
3	83001	52800	72817
4	84001	52805	72818

#### NOTE

- When changing a setting, be sure to set the same remote ID as the AVR-2808's (page 32).
- When changing the AMP mode's remote ID, also change the "TUNER" and "iPod" remote ID at the same time.
- Set the remote ID of an analog tuner for TUNER (**[DEV1]**).

### Learning Function

If your AV devices are of a brand other than DENON or if they cannot be operated with the preset memory function, their remote control signals can be transferred to stored in the AVR-2808's main remote control unit.

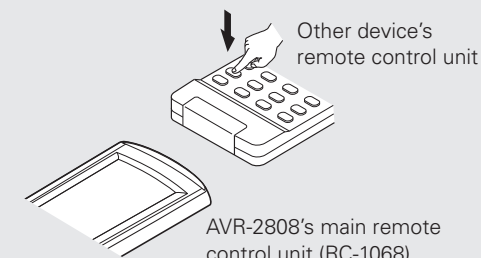
- 1** Press **[MODE SELECTOR]** for the device you want to set.
- 2** Press and hold in **[RC SETUP]** for at least 3 seconds. The signal transmission indicator flashes twice.
- 3** Press **[9], [7] and [5], in that order.** The signal transmission indicator flashes twice and the learning mode is set.

- 4** Press the button to be set.

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

- 5** Point the main remote control units directly at each other and press and hold the button on the other device's remote control unit that you want to learn.

Once learning is completed normally, the display lights and the signal transmission indicator flashes twice.



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

- 6** Press and hold in **[RC SETUP]** for at least 3 seconds.

The signal transmission indicator flashes twice and the setting is completed.



- With some remote control units, the signals cannot be learned or the device will not operate properly even when the signals have been learned. In this case, use the device's own remote control unit.
- Learned buttons have priority over the preset memory. If you no longer need the learned setting, reset the learning function (page 56).

#### NOTE

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

## System Call Function

This function lets you register a series of operations at a single button.

For example, the amplifier can be turned on, the input source selected, the monitor's power turned on, the source device's power turned on and the play mode set all by pressing a single button.

Up to 32 signals each can be registered at **[SYSTEM CALL] (1, 2 or 3)**.

### Registering

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

### Calling out

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

## Punch Through Function

CD, DVD or VCR mode buttons can be stored at unused TV or SAT/CBL mode buttons.

For example, when DVD mode buttons are assigned to the TV mode, the DVD mode operations can be performed while in the TV mode.

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

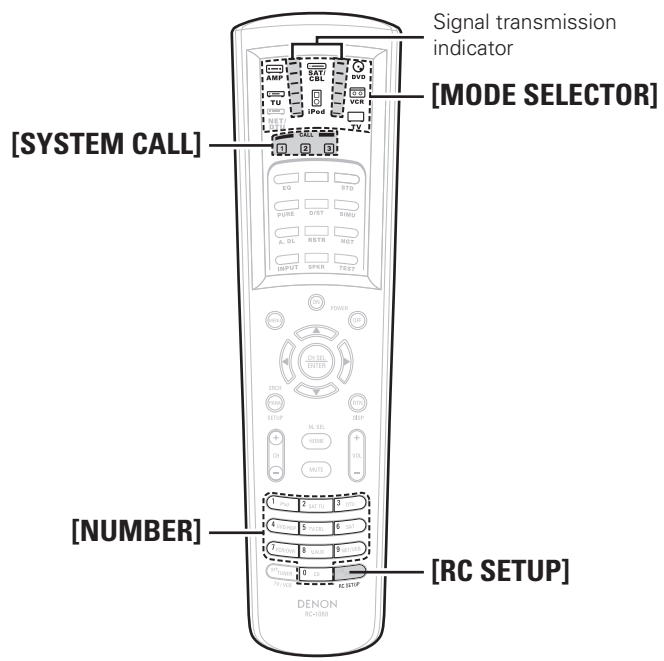
## Setting the Time the Backlight Stays Lit

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

## Adjusting the Backlight's Brightness

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

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



## Resetting the Main Remote Control Unit

### Learning Function

#### [Resetting button by button]

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

#### [Resetting by device mode]

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

#### System Call Function

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

#### Punch-Through Function

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

#### All Settings

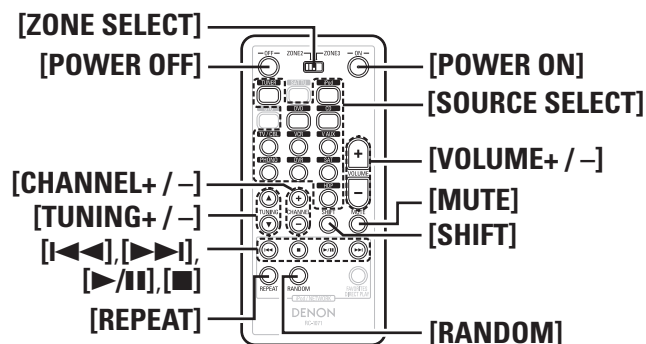
- 1** Press and hold in **[RC SETUP]** for at least 3 seconds. The signal transmission indicator flashes twice.
- 2** Press **[9], [8] and [1], in that order.** The signal transmission indicator flashes 4 times. All the settings are restored to their defaults.

## Sub Remote Control Unit

The sub remote control unit (RC-1071) included with the AVR-2808 can be used as the exclusive multi-zone remote control unit.

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

- Turning the multi-zone power on and off
- Selecting the input source to be played
- Adjusting and temporarily muting the multi-zone volume
- Listening to the tuner



<b>ZONE SELECT</b>	Switching the zone to be operated
<b>POWER OFF</b>	Power off
<b>POWER ON</b>	Power on
<b>SOURCE SELECT</b>	Switching the input source
<b>VOLUME + / -</b>	Volume control
<b>CHANNEL + / -</b>	Channel + / -
<b>TUNING + / -</b>	Tuning + / -
<b>MUTE</b>	Muting
<b>SHIFT</b>	Switching the memory block
<b>I◀▶I</b>	Auto search (cue)
<b>■</b>	Stop
<b>▶/II</b>	Play / Pause
<b>REPEAT</b>	1-track / All-track repeat play
<b>RANDOM</b>	1-track / album shuffle play

※ When using a Control Dock for iPod (ASD-1R), [FAVORITES DIRECT PLAY] cannot be used.

## Amp Assign / Multi-zone Connections and Operations

The AVR-2808 is compatible with the following types of playback:

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

### NOTE

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

## Multi-zone Settings with the Amp Assign Function

The amp assign function lets you assign the amplifiers for the different channels built into the AVR-2808 to the speaker outputs for the different zones.

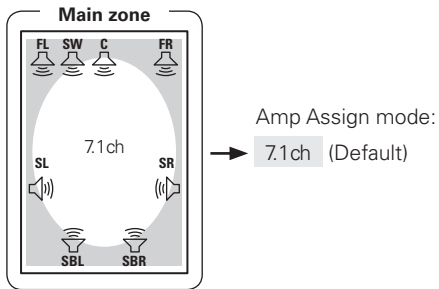
Select the desired playback environment from among "Setting 1" to "Setting 4", then set the corresponding "Amp Assign" mode at menu "Manual Setup" – "Option Setup" – "Amp Assign" (page 31).

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



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

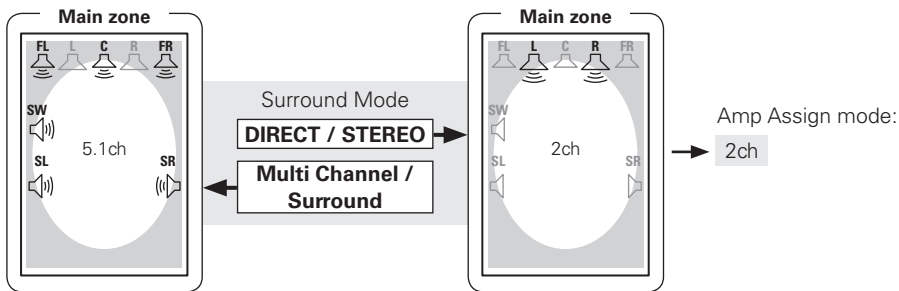
**Setting 1 :**  
**● 7.1-channel playback**



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

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

**Setting 2 :** With this setting it is possible to switch between the following two playback modes.  
**● 5.1-channel playback ↔ 2-channel playback**  
 Switching ..... Surround Mode switching

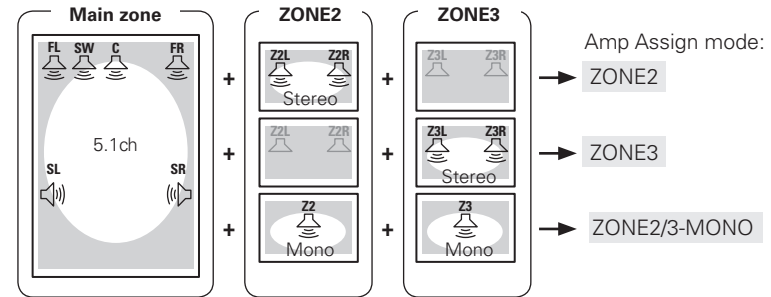


**Amp Assign mode setting and speakers connected to the various speaker terminals**

Speaker terminal / Amp Assign mode	FRONT		CENTER	SURR		SURR. BACK / AMP ASSIGN	
	R	L		R	L	R	L
2ch	FR	FL	C	SR	SL	FR	FL

**Setting 3 :**  
**● Multi-zone playback**

- 5.1-channel playback + ZONE2 or ZONE3 stereo playback
- 5.1-channel playback + ZONE2 + ZONE3 monaural playback



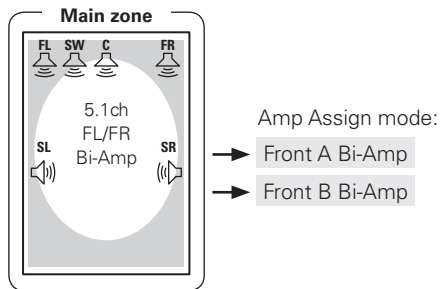
“STEREO” or “MONO” depends on the setting at menu “Manual Setup” – “(select the zone)” – “Zone Setup” – “Channel” (page 30).

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

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

**Setting 4 :**

- **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**

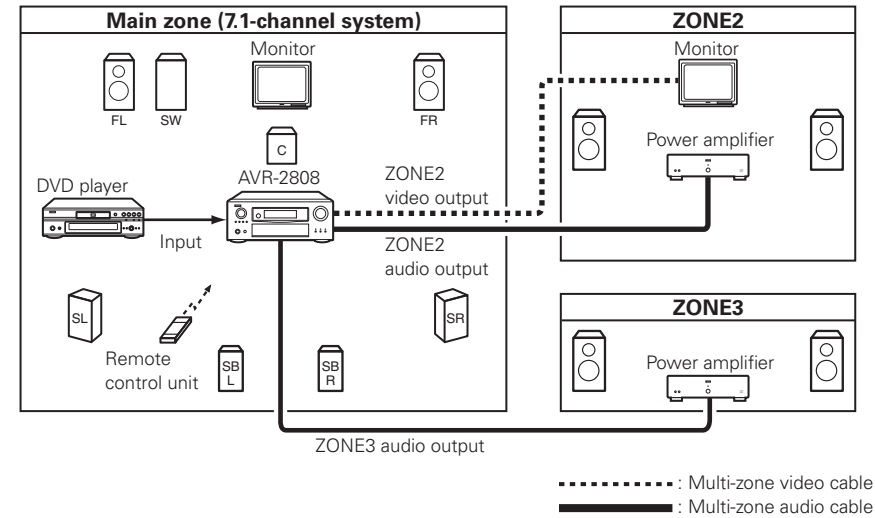
Speaker terminal	FRONT-A		FRONT-B		CENTER	SURR		SURR. BACK / AMP ASSIGN	
	R	L	R	L		R	L	R	L
Front A Bi-Amp								FR	FL
Front B Bi-Amp	FR-A	FL-A	FR-B	FL-B	C	SR	SL	FR	FL

FR FL : FL-A/FR-A Bi-Amp connection  
FR FL : FL-B/FR-B Bi-Amp connection

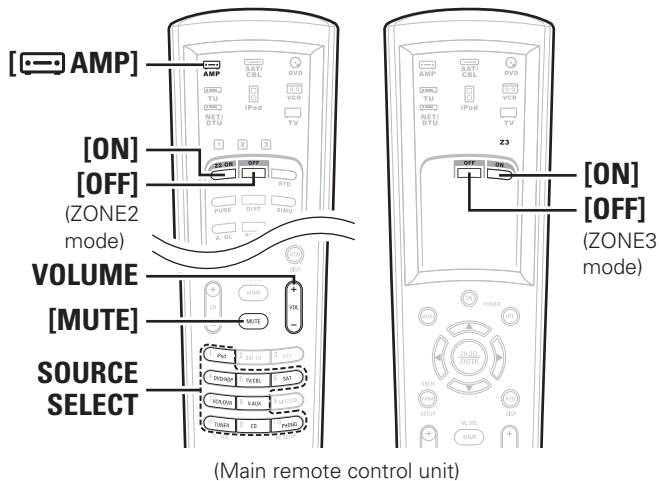
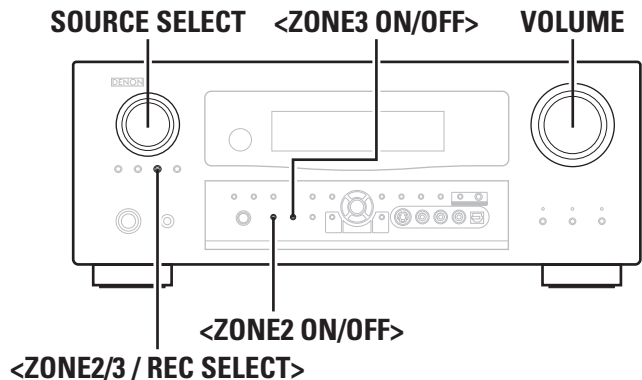
**Multi-zone Settings and Operations with Zone Pre-out Output**

Prepare power amplifiers for ZONE2 and ZONE3.

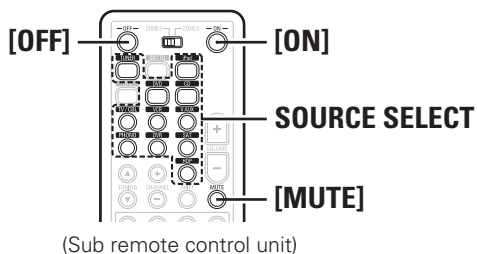
	Connectors for audio output	Audio signals	Connectors for video output
ZONE2	ZONE2 PRE OUT	Stereo	ZONE2 VIDEO OUT
ZONE3	ZONE3 PRE OUT	Stereo	-



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



(Main remote control unit)



(Sub remote control unit)

**About the button names in these explanations**

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

**Button name only:**

Buttons on the main unit and remote control unit

**Multi-zone Operations**

**Turning the Power On and Off**

**[Operation on the main unit]**

Press <ZONE2 ON/OFF> or <ZONE3 ON/OFF> for the zone to be operated. When the power turns on, the multi-zone indicator (Z2 or Z3) lights on the display.

**[Operation on the remote control unit]**

In the zone mode you want to operate, press [ON] or [OFF].

**Selecting the Input Source**

**[Operation on the main unit]**

- ① Press <ZONE2/3 / REC SELECT> and select the zone to be adjusted.
- ② Turn <SOURCE SELECT>.

**[Operation on the remote control unit]**

In the zone mode you want to operate, press [SOURCE SELECT].

**Adjusting the Volume**

**[Operation on the main unit]**

- ① Press <ZONE2/3 / REC SELECT> and select the zone to be adjusted.
- ② Turn <VOLUME> to adjust.

**[Operation on the remote control unit]**

In the zone mode whose volume you want to adjust, press [VOLUME].

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



The volume can be adjusted when menu "Manual Setup" - "Zone Setup" - "(select the zone)" - "Volume Level" is set to "VAR". The volume can be increased up to the value set at menu "Manual Setup" - "Zone Setup" - "(select the zone)" - "Volume Limit" (page 30).

**Turning off the Sound Temporarily**

In the zone mode for which you want to mute the sound, press [MUTE].

The sound is reduced to the level set at menu "Manual Setup" - "Zone Setup" - "(select the zone)" - "Mute Level" (page 30).

To cancel, either adjust the volume or press [MUTE] again.

The setting is canceled when the zone's power is turned off.



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

**NOTE**

- When the input source to which the digital input connectors (OPTICAL/COAXIAL) are assigned is selected in ZONE2 or ZONE3, playback is only possible if the digital signal being input is in PCM (2-channel) format.
- Digital audio signals input from the HDMI connectors cannot be played in multi-zone.
- When certain digital signals are being input, noise may be output from the ZONE2 and ZONE3 audio output connectors.



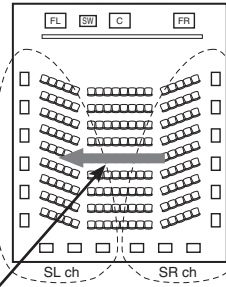
# Other Information

## About Speaker Installation

### Surround back speakers

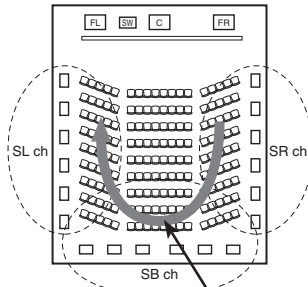
Sound positioning directly to the rear can be achieved easily by adding a surround back speaker to a 5.1-channel system. In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides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

#### Change of positioning and acoustic image with 5.1-channel systems



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.

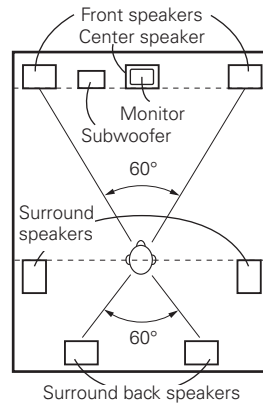
### Examples of speaker layouts

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.

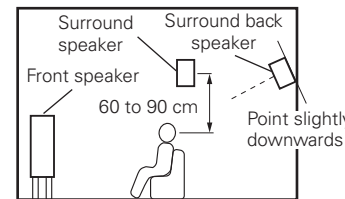
#### [1] Using surround back speaker(s)

##### ① When mainly playing movies

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



[As seen from above]

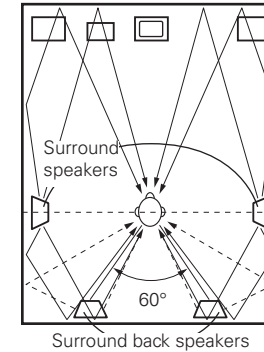


[As seen from the side]

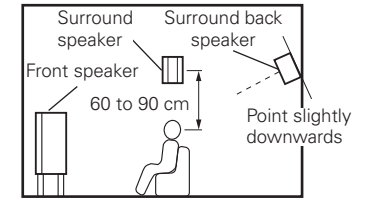
##### ② Setting for primarily watching movies using diffusion type speakers for the surround speakers

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

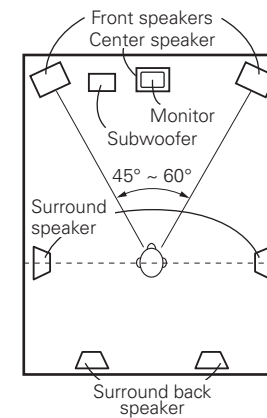


[As seen from above]

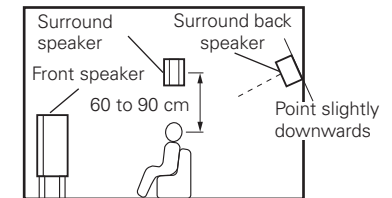


[As seen from the side]

##### ③ When playing movies and music

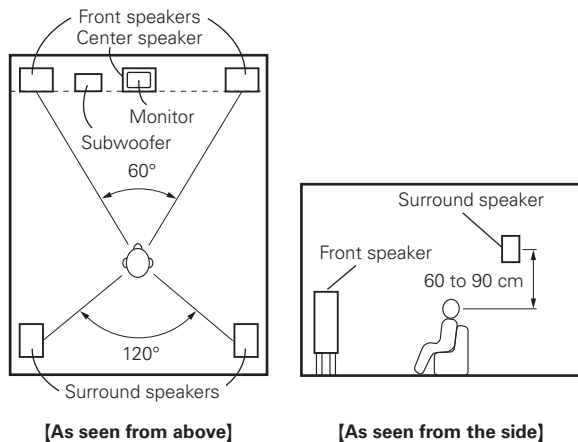


[As seen from above]



[As seen from the side]

## [2] When not using surround back speakers



## Surround

The AVR-2808 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.

### ※ Sources recorded in Dolby Surround

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

Dolby Surround support mark : 

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 MultEQ® XT

Audyssey MultEQ® XT is the first technology to properly measure sound information throughout a listening area, then combine this information to accurately represent the acoustical problems in the room. Based on these measurements, MultEQ XT calculates an equalization solution that corrects for both time and frequency response problems in every seat.

Audyssey MultEQ XT not only corrects frequency response problem in a large listening area, it also performs a fully automated surround system setup.

For a detailed description, see page 23.



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

## AL24 Processing Plus

### AL24 Processing for All Channels

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

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

## 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.

## Lip Sync

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 * <sub>1</sub>	LFE * <sub>2</sub>	AFDM * <sub>1</sub>	SB CH OUT	CINEMA EQ.	MODE	ROOM SIZE	LEVEL	DELAY TIME	Subwoofer
PURE DIRECT, DIRECT	○	×	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×	×	○
DSD DIRECT	○	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI DIRECT	○	⊙	⊙	⊙	⊙	×	○ (0 dB)	×	○	×	×	×	×	×	×
MULTI CH DIRECT	○	⊙	⊙	⊙	⊙	×	○ (0 dB)	○ (ON)	○	×	×	×	×	×	×
STEREO	○	×	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×	×	×
EXT. IN	○	⊙	⊙	⊙	⊙	×	×	×	×	×	×	×	×	×	×
MULTI CH IN	○	⊙	⊙	⊙	⊙	×	○ (0 dB)	○ (ON)	○	×	×	×	×	×	×
WIDE SCREEN	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	○ (OFF)	×	×	○ (ON, 10)	×	×
DOLBY PRO LOGIC IIx	○	⊙	⊙	⊙	⊙	○ (OFF)	×	×	○	○ (NOTE1)	○ (CINEMA)	×	×	×	×
DOLBY PRO LOGIC II	○	⊙	⊙	×	⊙	○ (OFF)	×	×	○	○ (NOTE2)	○ (CINEMA)	×	×	×	×
DTS NEO:6	○	⊙	⊙	⊙	⊙	○ (OFF)	×	×	○	○ (NOTE1)	○ (CINEMA)	×	×	×	×
DOLBY DIGITAL	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×
DTS SURROUND	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○ (ON)	○	○ (OFF)	×	×	×	×	×
7CH STEREO	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	×	×	×	×
SUPER STADIUM	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	○ (medium)	○ (10)	×	×
ROCK ARENA	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	○ (medium)	○ (10)	×	×
JAZZ CLUB	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	○ (medium)	○ (10)	×	×
CLASSIC CONCERT	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	○ (medium)	○ (10)	×	×
MONO MOVIE	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	○ (medium)	○ (10)	×	×
VIDEO GAME	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	○ (medium)	○ (10)	×	×
MATRIX	○	⊙	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	○	×	×	×	×	○ (30 ms)	×
VIRTURL	○	×	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×	×	×

○ : 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 38).  
 NOTE2 : This parameter is available when the menu "Parameter" - "Surround Parameter" - "MODE" is set to "CINEMA" or "PL" (page 38).  
**NOTE:**  
 \*1 : When playing Dolby Digital and DTS signals.  
 \*2 : When playing Dolby Digital, DTS, DVD-Audio and Super Audio CD.

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 Control	Night Mode	Room EQ	RESTORER
	PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE	SW ATT				
PURE DIRECT, DIRECT	×	×	×	×	×	×	○ (OFF)	○ (NOTE5)	○
DSD DIRECT	×	×	×	×	×	×	×	×	×
DSD MULTI DIRECT	×	×	×	×	×	×	×	×	×
MULTI CH DIRECT	×	×	×	×	×	×	○ (OFF)	○ (NOTE5)	×
STEREO	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
EXT. IN	×	×	×	×	○	×	×	×	×
MULTI CH IN	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	×
WIDE SCREEN	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DOLBY PRO LOGIC IIx	○ (OFF)	○ (3)	○ (3)	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DOLBY PRO LOGIC II	○ (OFF)	○ (3)	○ (3)	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DTS NEO:6	×	×	×	○ (0.3)	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DOLBY DIGITAL	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	×
DTS SURROUND	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	×
7CH STEREO	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
SUPER STADIUM	×	×	×	×	×	○ (NOTE3)	○ (OFF)	○ (OFF)	○
ROCK ARENA	×	×	×	×	×	○ (NOTE4)	○ (OFF)	○ (OFF)	○
JAZZ CLUB	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
CLASSIC CONCERT	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
MONO MOVIE	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
VIDEO GAME	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
MATRIX	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
VIRTURL	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○

○ : Adjustable  
 × : Not adjustable  
 NOTE3 : BASS +6 dB, TREBLE 0 dB  
 NOTE4 : BASS +6 dB, TREBLE +4 dB  
 NOTE5 : Can be used according to the "Direct Mode Setup" setting.

Differences in Surround Mode Names Depending on the Input Signals

Button	Surround mode	Note	Input signals														
			ANALOG	LINEAR PCM	DTS				DOLBY DIGITAL					DVD-AUDIO		Super Audio CD	
					DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	DSD (multi ch)	DSD (2ch)
STANDARD																	
DTS SURROUND																	
	DTS ES DSCRT6.1	*1	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×	×
	DTS ES MTRX6.1	*1	×	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×
	DTS SURROUND		×	×	○	○	●	×	×	×	×	×	×	×	×	×	×
	DTS 96/24		×	×	×	×	●	×	×	×	×	×	×	×	×	×	×
	DTS + PLIIx CINEMA	*2	×	×	○	○	○	○	×	×	×	×	×	×	×	×	×
	DTS + PLIIx MUSIC	*1	×	×	○	○	○	○	×	×	×	×	×	×	×	×	×
	DTS + NEO:6	*1	×	×	×	○	○	○	×	×	×	×	×	×	×	×	×
	DTS NEO:6 CINEMA		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
	DTS NEO:6 MUSIC		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DOLBY SURROUND																	
	DOLBY DIGITAL EX	*1	×	×	×	×	×	×	○	○	○	○	×	×	×	×	×
	DOLBY DIGITAL		×	×	×	×	×	×	○	●	●	●	×	×	×	×	×
	DOLBY DIGITAL + PLIIx CINEMA	*2	×	×	×	×	×	×	● ◎	○	○	○	×	×	×	×	×
	DOLBY DIGITAL + PLIIx MUSIC	*1	×	×	×	×	×	×	○	○	○	○	×	×	×	×	×
	DOLBY PRO LOGIC IIx CINEMA		○	○	×	×	×	×	×	×	×	×	●	×	○	×	○
	DOLBY PRO LOGIC IIx MUSIC		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
	DOLBY PRO LOGIC IIx GAME		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
	DOLBY PRO LOGIC II CINEMA		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
	DOLBY PRO LOGIC II MUSIC		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
	DOLBY PRO LOGIC II GAME		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
	DOLBY PRO LOGIC		○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
MULTI CH IN																	
	MULTI CH IN		×	×	×	×	×	×	×	×	×	×	×	●	×	●	×
	MULTI IN + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
	MULTI IN + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
	MULTI CH IN 7.1		×	×	×	×	×	×	×	×	×	×	×	● ◎ (7.1)	×	×	×

NOTE:

- \*1: This mode is not available when the surround back speaker setup is set to "None".
- \*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".
- : Mode selectable in initial status
- ◎ : Mode fixed when "AFDM" is "ON"
- : Selectable mode
- ×

Button		Input signals															
Surround mode	Note	ANALOG	LINEAR PCM	DTS				DOLBY DIGITAL					DVD-AUDIO		Super Audio CD		
				DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	DSD (multi ch)	DSD (2ch)	
<b>DIRECT</b>																	
DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	×	○	×	○
DSD DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M DIRECT + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M DIRECT + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	×	○	×	×	×
<b>PURE DIRECT</b>																	
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	×	○	×	○
DSD PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI PURE		×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M PURE D + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M PURE D + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M CH PURE DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	×	○	×	×	×
<b>DSP SIMULATION</b>																	
7CH STEREO	*3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
WIDE SCREEN		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
SUPER STADIUM		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ROCK ARENA		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
JAZZ CLUB		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CLASSIC CONCERT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MONO MOVIE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIDEO GAME		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MATRIX		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
<b>STEREO</b>																	
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: If the surround back speaker setup is set to "None", then "5CH STEREO" is displayed.
- : Mode selectable in initial status
- : Selectable mode
- ×

# Relationship Between Video Signals and Monitor Output

Video convert	Input signals				MONITOR OUT			
	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 **MENU** button and the main remote control unit's **PARA** button.

- The main zone video conversion function is compatible with the following format: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.
- When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-Video connector.
- When the input signal is a component 1080i or 720p signal, the signal upconverted to HDMI is output with that resolution or 1080p.
- When the input signal is a video, S-Video or component 480i, 480p, 576i or 576p signals, the signal up-converted to HDMI is output according to the setting made at "Resolution" under "HDMI Setup" - "HDMI Video Setup" (page 28).



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

○ : Signal input  
 × : 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 **MENU** button and the main remote control unit's **PARA** button.

□ ZONE2 monitor out

Input		Monitor out
S-VIDEO	VIDEO	VIDEO
×	×	×
×	○	○ (VIDEO)
○	×	○ (S-VIDEO)
○	○	○ (S-VIDEO)

○ : Signal present  
 × : No signal

○ : Output present  
 × : No output

# Troubleshooting

If a problem should arise, first check the following:

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

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

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

## [General]

Symptom	Cause	Countermeasure	Page
Power does not turn on, or turns off directly after it was turned on.	<ul style="list-style-type: none"> <li>• Connection of the power cord is faulty.</li> </ul>	<ul style="list-style-type: none"> <li>• Check that the power plugs are securely inserted into the AVR-2808's AC inlet and the wall power outlet.</li> </ul>	20
No sound is produced from speakers.	<ul style="list-style-type: none"> <li>• Connection with the input devices or connection of the speaker cables is faulty.</li> </ul>	<ul style="list-style-type: none"> <li>• Check the connections.</li> </ul>	9
	<ul style="list-style-type: none"> <li>• Device you want to play and set input source do not match.</li> </ul>	<ul style="list-style-type: none"> <li>• Select an appropriate input source.</li> </ul>	43
	<ul style="list-style-type: none"> <li>• Master volume is turned too low.</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust the master volume to an appropriate level.</li> </ul>	43
	<ul style="list-style-type: none"> <li>• Mute mode is set.</li> <li>• Headphones are connected.</li> </ul>	<ul style="list-style-type: none"> <li>• Cancel the mute mode.</li> <li>• Disconnect the headphones.</li> </ul>	43
	<ul style="list-style-type: none"> <li>• No digital signals are being input.</li> </ul>	<ul style="list-style-type: none"> <li>• Select an input source for which the digital input setting has been made.</li> </ul>	35
	<ul style="list-style-type: none"> <li>• The connectors to which the digital inputs are assigned and the settable input modes do not match.</li> </ul>	<ul style="list-style-type: none"> <li>• Set the input mode.</li> </ul>	34
Display is off.	<ul style="list-style-type: none"> <li>• The "Dimmer" setting is set to "OFF".</li> <li>• The PURE DIRECT mode is set.</li> </ul>	<ul style="list-style-type: none"> <li>• Set to something other than "OFF".</li> </ul>	32
		<ul style="list-style-type: none"> <li>• Set a surround mode other than the PURE DIRECT mode.</li> </ul>	38
"DOLBY DIGITAL" indicator does not appear on display.	<ul style="list-style-type: none"> <li>• DVD player's digital audio output setting is not proper.</li> </ul>	<ul style="list-style-type: none"> <li>• Check the DVD player's audio output setting. For details, read the DVD player's operating instructions.</li> </ul>	-

Symptom	Cause	Countermeasure	Page
Power turns off suddenly and power indicator flashes red.	<ul style="list-style-type: none"> <li>• Protection circuit activated due to rise of internal temperature.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn off the power, wait for the set to fully cool down, then turn the power back on.</li> </ul>	10
	<ul style="list-style-type: none"> <li>• Core wires of two speakers are touching each other or a core wire is sticking out of the terminal and touching the set's rear panel, activating the protection circuit.</li> </ul>	<ul style="list-style-type: none"> <li>• Place the set in a well-ventilated place.</li> <li>• First unplug the power cord, then twist the core wires tightly or terminate the speaker cables, then reconnect.</li> </ul>	10
	<ul style="list-style-type: none"> <li>• Speakers with an impedance other than specified are being used.</li> <li>• Set is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Use speakers with the specified impedance.</li> <li>• Turn off the power and contact a DENON service center.</li> </ul>	10
			-

## [Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	<ul style="list-style-type: none"> <li>• Batteries are worn.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace with new batteries.</li> </ul>	3
	<ul style="list-style-type: none"> <li>• You are operating outside of the specified range.</li> </ul>	<ul style="list-style-type: none"> <li>• Operate within the specified range.</li> </ul>	3
	<ul style="list-style-type: none"> <li>• Obstacle between main unit and remote control unit.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove the obstacle.</li> </ul>	3
	<ul style="list-style-type: none"> <li>• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert the batteries in the proper direction, following the polarity marks in the battery compartment.</li> </ul>	3
	<ul style="list-style-type: none"> <li>• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).</li> </ul>	<ul style="list-style-type: none"> <li>• Move the set to a place in which the remote control sensor will not be exposed to strong light.</li> </ul>	3
	<ul style="list-style-type: none"> <li>• The remote ID of the main unit and remote control unit do not match.</li> </ul>	<ul style="list-style-type: none"> <li>• Set the same remote IDs for the main unit and remote control unit.</li> </ul>	32, 54

[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 mode.	• The mode is set to something other than "STANDARD".	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.	36 ~ 38
No sound is produced from surround back speaker.	• The surround back speaker's power amplifier is assigned to a different channel. • Surround back speaker setting is set to "None". • Surround mode not set to a mode for 6.1- or 7.1-channel playback.	• Check the setting and change it as necessary.	31
		• Set to something other than "None". • Select a surround playback mode.	26 36 ~ 38
No sound is produced from subwoofer.	• Subwoofer's power not turned on. • The "Subwoofer" setting at "Speaker Configuration" is set to "No". • The subwoofer is not properly connected. • The subwoofer's volume is turned off.	• Turn on the subwoofer's power.	-
		• Set to "Yes".  • Check the connections.	26 9
		• Adjust the subwoofer's volume to an appropriate level.	49
No test tones are produced when main remote control unit's <b>TEST TONE</b> button is pressed.	• Surround mode not set to "STANDARD".	• Set to the STANDARD mode.	37
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream.  • DVD player is not compatible with DTS sound playback. • The AVR-2808's "Decode Mode" setting is set to "PCM".	• Set the DVD player. For details, refer to the DVD player's operating instructions.	-
		• Use a DTS-compatible player.  • Set to the "Auto" or "DTS" mode.	- 34
HDMI audio signals are not output from speakers.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" setting is set to "TV".	• Set to "AMP".	27

Symptom	Cause	Countermeasure	Page
No sound is output from the monitor connected with HDMI connections.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Setup" – "HDMI Audio Out" setting is set to "AMP".	• Set to "TV".	27

[Video]

Symptom	Cause	Countermeasure	Page
No picture appears.	• The connections between the AVR-2808 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.	• Check the connections.	11 ~ 20
		• 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.	- 38 -
No picture appears with HDMI connections.	• 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.	• Check the connections.	11
		• Check the HDMI input setting. • Connect a monitor that is compatible with copyright protection (HDCP). • Match the HDMI format of the player and monitor.	35 11 11
Picture cannot be recorded.	• Input source does not match recorder's video connection connector (video or S-Video).	• The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.	15
DVDs cannot be copied on a VCR.	-	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	-

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• 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.	• Switch to the input source assigned at "iPod dock".	35
		• Reconnect. • Plug the Control Dock for iPod's AC adapter into a power outlet.	14 -

# Specifications

## Audio section

### Power amplifier

#### Rated output:

Front (A, B):  
 110 W + 110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)  
 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

#### Center:

110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)  
 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

#### Surround :

110 W + 110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)  
 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

#### Surround Back:

110 W + 110 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)  
 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

#### Dynamic power:

120 W x 2ch (8 Ω/ohms)  
 170 W x 2ch (4 Ω/ohms)

#### Output terminals:

Front:	A or B	6 ~ 16 Ω/ohms
	A + B	8 ~ 16 Ω/ohms
Center, Surround, Surr. Back:		6 ~ 16 Ω/ohms

### Analog

**Input sensitivity / Input impedance:** 200 mV / 47 kΩ/kohms

**Frequency response:** 10 Hz ~ 100 kHz +1, -3 dB (DIRECT mode)

**S/N:** 102 dB (DIRECT mode)

**Distortion:** 0.005 % (20 Hz ~ 20 kHz) (DIRECT mode)

**Rated output:** 1.2 V

### Digital

#### D/A output:

Rated output — 2 V (at 0 dB playback)  
 Total harmonic distortion — 0.008 % (1 kHz, at 0 dB)  
 S/N ratio — 102 dB  
 Dynamic range — 96 dB  
 Format — Digital audio interface

#### Digital input:

### Phono equalizer (PHONO input — REC OUT)

**Input sensitivity:** 2.5 mV

**RIAA deviation:** ±1 dB (20 Hz to 20 kHz)

**S/N:** 74 dB (A weighting, with 5 mV input)

**Rated output:** 150 mV

**Distortion factor:** 0.03 % (1 kHz, 3 V)

## Video section

### Standard video connectors

**Input / output level and impedance:** 1 Vp-p, 75 Ω/ohms  
**Frequency response:** 5 Hz ~ 10 MHz — +0, -3 dB (when video convert set to "OFF")

### S-Video connectors

**Input / output level and impedance:** Y (brightness) signal — 1 Vp-p, 75 Ω/ohms  
 C (color) signal — 0.3 (PAL) / 0.286 (NTSC) Vp-p, 75 Ω/ohms  
**Frequency response:** 5 Hz ~ 10 MHz — +0, -3 dB (when video convert set to "OFF")

### Color component video connector

**Input / output level and impedance:** Y (brightness) signal — 1 Vp-p, 75 Ω/ohms  
 P<sub>B</sub> / C<sub>B</sub> signal — 0.7 Vp-p, 75 Ω/ohms  
 P<sub>R</sub> / C<sub>R</sub> signal — 0.7 Vp-p, 75 Ω/ohms  
**Frequency response:** 5 Hz ~ 100 MHz — +0, -3 dB (when video convert set to "OFF")

## Tuner section

### [FM]

### [AM]

(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10<sup>-15</sup> W)

**Receiving Range:** 87.5 MHz ~ 108.0 MHz 522 kHz ~ 1611 kHz

**Usable Sensitivity:** 1.0 μV (11.2 dBf) 18 μV

**50 dB Quieting Sensitivity:** MONO 1.6 μV (15.3 dBf)

STEREO 23 μV (38.5 dBf)

**S/N (IHF-A):** MONO 77 dB

STEREO 72 dB

**Total harmonic Distortion (at 1 kHz):** MONO 0.15 %

STEREO 0.3 %

## General

**Power supply:** AC 230 V, 50 Hz

**Power consumption:** 500 W

0.3 W (Standby)

**Maximum external dimensions:** 434 (W) x 171 (H) x 420 (D) mm

**Weight:** 13.1 kg

## Main remote control unit (RC-1068)

**Batteries:** LR6/AA Type (two batteries)

**Maximum external dimensions:** 63 (W) x 238 (H) x 31 (D) mm

**Weight:** 190 g (including batteries)

## Sub remote control unit (RC-1071)

**Batteries:** R03/AAA Type (two batteries)

**Maximum external dimensions:** 54 (W) x 115 (H) x 23 (D) mm

**Weight:** 80 g (including batteries)

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

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

**Denon Amp**

**D** Denon 81001, 82001, 83001, 84001

**Denon Tuner**

**D** Denon (Analog) 52863, 52795, 52800, 52805

**Denon iPod**

**D** Denon 72815, 72816, 72817, 72818

**Cable**

<b>A</b>	A-Mark	00008, 00144
	ABC	00237, 00003, 00008
	Accuphase	00003
	Acom	00237
	Action	00237
	Active	00237
	ADB	01230
	Aichi Denshi	01512
	Americast	00899
	Amstrad	01222
	Archer	00237
	Auna	01230
	Austar	00276
<b>B</b>	BCC	00276
	Bell South	00899
	Bestlink	00303
	Birmingham Cable Communications	00276
	British Telecom	00003
<b>C</b>	Cable & Wireless	01068
	Century	00008
	Coship	01462
<b>D</b>	Daehan	00778
	Daeryung	01877, 00877, 00477, 00008
	Digeo	01187
	Director	00476
	DX Antenna	01500
<b>E</b>	Emerson	00303
	Encon	00008
<b>F</b>	Fosgate	00276
	Foxtel	01222
	France Telecom	00817
	Freebox	01482
	Fujitsu	01497
<b>G</b>	Galaxi	00008
	GE	00237, 00144
	Gehua	00476

	General Instrument	00476, 00810, 00276, 00003
	Gibraltar	00003
	GNI	01466
	GoldStar	00144
<b>H</b>	Hitachi	00003, 00008
	Hongtian Jiangsu	01462
	Hwalin	00303
<b>I</b>	Insight	00476, 00810
<b>J</b>	Jerrold	00476, 00810, 00276, 00003
	Jiuzhou	01445
<b>K</b>	KNC	00008
<b>L</b>	LG	00144
<b>M</b>	Macab	00817
	Madritel	01230
	Maspro	01510
	Mataw	01082
	Memorex	00000
	Mitsubishi	00003
	Motorola	01376, 00476, 00810, 00276, 01187
	MS	00303
<b>N</b>	NEC	01496
	Noos	00817
	Nova Vision	00008
	Novaplex	00008
	NTL	00276, 00003, 01060, 01068
<b>O</b>	Oak	00303
	Ono	01068
	Optus	00276, 01060
<b>P</b>	Pace	01877, 00877, 00237, 00008, 01060, 01068, 01577
	Panasonic	00000, 00008, 00144, 01488
	Paragon	00000, 00008, 00525
	Penney	00000
	Philips	01305, 00317, 00817
	Pioneer	01877, 00877, 00144, 00533, 01500
	Pulsar	00000
	PVP Stereo Visual Matrix	00003
<b>Q</b>	Quasar	00000
<b>R</b>	RadioShack	00303
	Regal	00276
	Runco	00000
<b>S</b>	Sagem	00817
	Salora	00000
	Samsung	00003, 00000, 00144, 00778, 00840, 01060, 01666
	Scientific Atlanta	01877, 00877, 00477, 00237, 00003, 00000, 00008, 01510
	Skyworth	01464
	Sony	01006, 01460
	Sprucer	00144

	Starcom	00003
	StarHub	00276
	Sumitomo	01500, 01504
	Supercable	00276
<b>T</b>	Taihan	00778
	TCL	01445
	Telewest	01068
	Time Warner cable	01877
	TongKook	00840
	Torx	00003
	Toshiba	00000, 01509
	Trans PX	00276, 00303
	TS	00003, 00303
<b>U</b>	United Cable	00276, 00003
	US Electronics	00276, 00003, 00008
<b>V</b>	Videoway	00000
	Visiopass	00817
<b>Z</b>	Zenith	00000, 00525, 00899

**Cable/PVR Combination ※1**

<b>A</b>	Americast	00899
<b>D</b>	Digeo	01187
<b>F</b>	Freebox	01482
<b>G</b>	General Instrument	00810
<b>J</b>	Jerrold	00810
<b>M</b>	Motorola	01376, 00810, 01187
<b>P</b>	Pace	01877, 00237
	Pioneer	01877, 00877
<b>S</b>	Scientific Atlanta	01877, 00877
	Sony	01006
	Supercable	00276
<b>T</b>	Time Warner cable	01877
<b>Z</b>	Zenith	00899

**CD Player**

<b>A</b>	Acoustic Research	40420
	Advantage	40032
	Aiwa	40157
	Arcam	40157
	Audio Research	40157
	Audiolab	40157
	Audiomeca	40157
	Audioton	40157
	AVI	40157
<b>B</b>	Balanced Audio Technology	40157
	Burmester	40420
	Bush	40388
<b>C</b>	Cairn	40157

	California Audio Labs	40029, 40303
	Cambridge	40157
	Cambridge Audio	40157
	Cambridge Soundworks	40157
	Carver	40157, 40179
	CDC	40420
	CEC	40420
	Copland	40393
	Curtis Mathes	40032
	Cyrus	40157
<b>D</b>	Denon	40873, 40003, 40766, [42867] *, 42868
	DKK	40000
	DMX Electronics	40157
	Dual	40003
	Dynaco	40157
	Dynamic Bass	40179
<b>F</b>	Fisher	40000, 40179
<b>G</b>	Garrard	40393, 40420
	Genexxa	40000, 40032, 40037, 40179
	Goldmund	40157
	Grundig	40157
<b>H</b>	Hafler	40173
	Harman/Kardon	40100, 40157, 40173
	Hitachi	40032
<b>I</b>	Inkel	40157
	Integra	40101
<b>J</b>	Jerrold	40003
	JVC	40032, 40072
<b>K</b>	Kenwood	40681, 40000, 40029, 40157, 40028, 40037, 40036, 40190
	KLH	41318
	Krell	40157
<b>L</b>	Linn	40157
	Loewe	40157
	Luxman	40393
	LXI	40179
<b>M</b>	Magnavox	40157
	Marantz	40029, 40157
	Matsui	40157
	MCS	40029
	Memorex	40000, 40032, 40179, 40420, 40468
	Meridian	40157
	Micromega	40157
	Miro	40000
	Mission	40157
	Modulaire	40000, 40032, 40087, 40179, 40420, 40468
	MTC	40420
	Musical Fidelity	40393

	Myryad	40157
<b>N</b>	NAD	40000, 40721
	Naim	40157
	NSM	40157
<b>O</b>	Onkyo	40868, 40101
	Optimus	40000, 40032, 40037, 40087, 40179, 40393, 40420, 40468
	Orion	40393
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Teac	20280, 20283, 20289, 20308, 20309
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ADB	00642, 01259, 01367, 01418, 01473, 01491
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Aiwa	01514
Akai	00200
Alba	00455, 00713, 01284, 01659, 01811
Allsat	00200, 01043
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Amstrad	00345, 00713, 00795, 00847, 00863, 00882, 01113, 01175, 01693, 01801
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AntSat	01083
Apollo	00455
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Armstrong	00200
Arnion	01300
Asat	00200
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ASLF	00713
AssCom	00853
Astacom	00710
Aston	00142
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Astro	00173, 00658, 01099, 01100, 01113
Atlantic Telephone	01333
Atsat	01300
AtSky	01334
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Austar	00497, 00642, 00863, 00879, 01176, 01259
Axiel	00710
Axil	01457, 01659
Axis	01111
<b>B</b> B@ytronic	01412
Beko	00455
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BskyB	00847, 01175, 01662
BT	00710, 01296
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Classic	01672
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Dishpro	01505, 01005, 00775, 01775
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DSE	01375
DSTV	00642, 00879, 01433
Durabrand	01284
DX Antenna	01530
<b>E</b> Ecostar	01505, 01005, 00775, 00455, 00610, 00713, 00853, 00871, 01086, 01200, 01323, 01409, 01418, 01473, 01775
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Elap	00713, 01567
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Europa	00863
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<b>F</b> Fenner	00713
Ferguson	00455, 01291, 01743
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Finlux	00455
Flair Mate	00713
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Fortec Star	01083
Foxtel	00455, 00497, 00795, 00879, 01162, 01176, 01356
Fracapro Planet	00871
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Freesat	00882
FTE	00863
FTEmaximal	00713, 00863
Fuba	00173, 00262, 00299, 00394, 01214, 01251, 01801
Fugionkyo	00125
Funai	01377
<b>G</b> Galaxis	00853, 00863, 01101, 01111, 01557
Gardiner	00818
Garnet	01075
GbSAT	01214
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General Instrument	00869
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Hauptpage	01672
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Hitachi	00749, 00819, 00455, 01250, 01284, 01518, 01523, 01525
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Hornet	01300
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HTS	00775, 01775
Hughes Network Systems	01142, 00749, 01749, 01442
Humax	00863, 01176, 01225, 01406, 01427, 01675, 01743, 01790, 01915
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<b>K</b> K-SAT	00713
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Lennox	01611
LG	01075, 01414
Lifesat	00299, 00713, 01043
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Lorenzen	00299
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Manata	00710, 00713
Manhattan	00455, 00710, 01083
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Maspro	00173, 00713, 01530
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MDS	01225
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Metz	00173
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<b>P</b> P/Sat	01232
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Packard Bell	01111
Packsat	00710
Palcom	00299, 01409
Panarex	01159
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Panasonic	00247, 00701, 00455, 00847, 01304, 01404, 01508, 01526, 01527
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Pansat	01159
Patriot	00710
Paysat	00724
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Phonotrend	00863, 01200
Pilotime	01339
Pino	01334
Pioneer	01142, 00329, 00853, 01308, 01442
Planet	00871
Plasmatic	00442
Neuf TV	00713, 01611
Polytron	00394
Portland	01296
Preisner	00262, 01101, 01113, 01366
Premier	00723, 00853, 00873, 01429
Prima	00795
Primacom	01111
Primestar	00869
Profile	00710
Promax	00455
Proscan	00392, 00566
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<b>Q</b> QNS	01367, 01402, 01404
Quadral	00710
Quelle	00299
<b>R</b> Radiola	00200
RadioShack	00566, 00775, 00869
Radix	00394, 00882, 01113, 01317
RCA	00392, 00566, 01142, 00775, 00855, 00143, 01291, 01392, 01442
Rebox	01214
Regal	01251
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Roadstar	00713, 00853
Rollmaster	01413
Rover	00713
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<b>S</b> SAB	01251
Saba	00710, 00820
Sabre	00455
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Samsung	01377, 01142, 01276, 01108, 01109, 00853, 00863, 01206, 01442, 01458, 01570, 01609, 01700, 01916
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Sat Team	00713
SAT+	01409
Satec	00713
Satelco	01232
Satplus	01100

Satstation	01083
Schaub Lorenz	01214
Schneider	00710, 01206, 01251
Schwaiger	00394, 00504, 00863, 01075, 01083, 01111, 01317, 01334, 01412, 01457
SCS	00299
Sedea Electronique	00125, 01206, 01283, 01626
SEG	01075, 01087, 01251, 01626
Seleco	00871
Septimo	01375
Serd	01412
Serino	00610
Servimat	01611
ServiSat	00713, 01251
Sharp	01517
Siemens	00173, 01334, 01429
Silva	00299
Skantin	00713
SKR	00713
SKY	00856, 00099, 00847, 00887, 01014, 01175, 01662, 01693, 01847, 01848, 01850
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Sky Television	01014
Sky XL	01251, 01412
Sky+	01175
Skymaster	00713, 01075, 01085, 01200, 01334, 01409, 01567, 01611
Skymax	00200
Skyplus	01232, 01334, 01412
SkySat	00713
Skyvision	01334
SL	00299, 01672
SM Electronic	00713, 01200, 01409
Smart	00713, 00882, 01101, 01113, 01232, 01404, 01413
Sony	00639, 01639, 00455, 00847, 00853, 01524, 01558, 01640
Star	00887
Star Choice	00869
Star Trak	00772, 00869
Starland	00713
Starlite	00200
Stream	01847, 01848
Strong	00125, 00713, 00820, 00853, 00879, 01159, 01284, 01300, 01409, 01626
Sunkai	00123
Sunny	01300
Sunsat	00713
Sunstar	00642
Supernova	00887
SVA	01455
Systec	01334

<b>T</b> Tantec	00455
Tarbs	01225
Tatung	00455
TBoston	01659
Teac	01225, 01227, 01251, 01322
Tecatel	01200
TechniSat	00262, 00455, 00863, 01099, 01100, 01195, 01197, 01322
Technomate	01283, 01610
Technosonic	01672
Technotrend	01429
Techwood	01284, 01626
Tele System Electronic	01251, 01409, 01611, 01801
Teleciel	01043
TeleClub	01367
Telefunken	00710
Teleka	00262, 00442
Telestar	01099, 01100, 01251, 01334, 01610, 01626
Telesystem	01801
Televés	00455, 01214, 01300, 01334
Televisa	00887
Telewire	01232
Tevion	00713, 01409, 01622, 01672
Thomson	00392, 00566, 00455, 00710, 00713, 00820, 00847, 00853, 01046, 01175, 01291, 01534, 01543, 01662
Thorn	00455
Tiny	01672
Tioko	00394
Tivo	01142, 01442
Tokai	00200
Tonna	00455, 00713, 01611
Topfield	01206, 01208, 01545, 01783
Toshiba	00749, 01749, 00790, 00819, 00455, 01285, 01501, 01516, 01530
TPS	00820, 01253, 01307
Triax	00200, 00713, 00853, 01113, 01227, 01251, 01291, 01296, 01626
Trio	01075
TT-micro	01429
Turnsat	00713
Twiner	00713, 01611
<b>U</b> UEC	00879, 01162, 01333, 01356
UltimateTV	01392, 01640
Uniden	00724, 00722
Unisat	00200
United	01251
Universum	00173, 00299, 01087, 01099, 01251
US Digital	01535
USDTV	01535

<b>V</b> Variosat	00173
Ventana	00200
Vestel	01251
VH Sat	00299
Viasat	01682
ViewSat	01232
Visionic	00125, 01283
VisionNet	01557
Visiosat	00142, 00710, 00713, 01413, 01457, 01718
Viva	00856
Vivid	01162
Voom	00869
VTech	00818
<b>W</b> Wavelength	01232, 01413
Wewa	00455
Wharfedale	01284
Winbox	01801
Wintel	00299
Wisi	00173, 00299, 00455
Worldsat	00123, 00710, 01214, 01251, 01543
<b>X</b> Xcom	00123
XMS	01075
Xsat	00123, 00713, 00847, 01214, 01323
Xtreme	01300
<b>Y</b> Yakumo	01413
Yamada	01718
Yes	00887
Zehnder	00394, 00504, 00818, 01075, 01232, 01251, 01334, 01412, 01413
Zenith	00856, 01856
Zeta Technology	00200
Zodiac	01801

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<b>A</b> @sat	01300
Allvision	01412
Amstrad	01175
Atsat	01300
<b>B</b> B@ytronic	01412
British Sky Broadcasting	01175
BskyB	01175, 01662
Bush	01645
<b>C</b> Canal Satellite	01339
Comag	01412
<b>D</b> Digi fusion	01645
DigiQuest	01300
Digiturk	01076

DirecTV	01377, 00392, 00639, 01142, 01076, 00099, 01392, 01442, 01640
Dish Network System	01505, 00775
Dishpro	01505, 00775
DMT	01075
Dream Multimedia	01237
<b>E</b> EchoStar	01505, 00775, 00610
Expressvu	00775
<b>F</b> Foxtel	01356
<b>G</b> GbSAT	01214
Gecco	01412
Globo	01412
<b>H</b> HDT	01159
Hirschmann	01412
Homecast	01680
Hughes Network Systems	01142, 01442
Humax	01176, 01427, 01675
Huth	01075
Hyundai	01075, 01159
<b>K</b> Kaon	01300
Kathrein	00249, 00658, 01221, 01561
<b>L</b> LG	01075
<b>M</b> Maximum	01334
Mediacom	01206
Medion	01412
Microstar	01075
Morgan's	01412
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<b>B</b> Black Diamond	11037
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<b>C</b> Centrum	11037
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<b>D</b> D-Vision	11982
Denver	10587

<b>E</b>	Elfunk	11037
<b>F</b>	Ferguson	11037
	Finlux	11556
<b>G</b>	Goodmans	10587, 11037, 11900
<b>H</b>	Hitachi	11960
<b>J</b>	JDV	11982
	Jensen	11933
<b>K</b>	KLH	11962
<b>L</b>	Lenco	10587
	Logik	11037
	Luker	11982
	Luxor	11037
<b>M</b>	Matsui	11037
	Maxim	11982
	Medion	11900
	Mirror	11900
<b>N</b>	Naiko	11982
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<b>P</b>	Panasonic	11941
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	Roadstar	11900
<b>S</b>	Saivod	11982
	Samsung	11903
	Schneider	11982
	SEG	11037
	Sova	11952
	Stevison	11982
	Sylvania	10171
<b>T</b>	Teac	10698
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<b>U</b>	United	10587, 11037, 11982
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	Amstrad	31367
	Apex Digital	30830
<b>B</b>	Black Diamond	30713, 30884
	Broksonic	30695
	Bush	30713, 30884
<b>C</b>	Centrum	30713
	Citizen	30695
	Crown	30713
<b>D</b>	D-Vision	31367

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<b>E</b>	Elfunk	30713, 30884
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<b>F</b>	Ferguson	30695, 30713, 30884
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<b>G</b>	Goodmans	30713
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<b>H</b>	Hitachi	31247
<b>I</b>	Insignia	31268
<b>J</b>	JDV	31367
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<b>L</b>	Logik	30713, 30884
	Luker	31367
	Luxor	30713
<b>M</b>	Magnavox	31268
	Matsui	30713, 30884
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<b>N</b>	Naiko	31367
	Narita	31367
	Neovia	31271
<b>O</b>	Orion	30695
<b>P</b>	Pacific	30695
	Panasonic	31490
	Philips	30539, 30854, 31260
<b>R</b>	RCA	31022
<b>S</b>	Saivod	31367
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<b>T</b>	Technica	31367
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<b>U</b>	United	30713, 30884, 31367
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<b>V</b>	Vestel	30884
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<b>A</b>	Aiwa	11904, 11911
	America Action	10180
	Amstrad	10171
	Audiovox	10180
<b>B</b>	Beko	10486
	Black Diamond	11909

	Broksonic	10463, 11911
	Bush	11556
<b>C</b>	Curtis Mathes	10051
<b>D</b>	Daewoo	11909
<b>E</b>	Emerson	10236, 10463, 11909, 11911
<b>F</b>	Ferguson	10073, 10625
	Fidelity	10171
	Funai	11904
<b>G</b>	GE	10047, 10051, 10093, 11917, 11922
	GoldStar	10037
	Goodmans	10374, 11909
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<b>H</b>	Harley Davidson	11904
	Hinari	10036
	Hitachi	11904
<b>I</b>	Internal	11909
<b>J</b>	JVC	11923
<b>L</b>	LG	10178
	Lloyd's	11904
<b>M</b>	Magnavox	10054, 11904
	Memorex	10250
	Mitsubishi	10093, 10556, 11917
<b>O</b>	Orion	10463, 11911
<b>P</b>	Palsonic	11904
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<b>R</b>	Radiola	10556
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	RCA	10047, 10051, 10093, 11917, 11922
<b>S</b>	Saba	10625
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	Sansui	10463, 11904, 11911
	Schneider	10037, 10556, 11904
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	Sharp	10093, 11917
	Siemens	10037
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	Symphonic	11904
<b>T</b>	Teac	10178, 10171
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	Thomas	11904
	Thomson	10625
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	White Westinghouse	11909
<b>Z</b>	Zenith	11904, 11909, 11911
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<b>A</b>	Aiwa	20000, 20352, 20479, 20742, 21137

	Akai	20352
	Alba	20352
	America Action	20278
	Amstrad	20000
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	Broksonic	20002, 20479, 21479
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<b>C</b>	Citizen	20278, 21278
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<b>D</b>	Daewoo	20278, 20637, 21278
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<b>E</b>	Emerson	20002, 20278, 20479, 20637, 21278, 21479
<b>F</b>	Ferguson	20000, 20278
	Fidelity	20000
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	Funai	20000
<b>G</b>	GE	20060, 20035, 20048, 20240, 20807, 21035, 21060
	GoldStar	20037, 20480, 21237
	Goodmans	20278, 20352, 20637
	Grandin	20278, 20742
	Grundig	20081, 20347, 20352, 20742
<b>H</b>	Hanimex	20352
	Harley Davidson	20000
	Hinari	20352
	Hitachi	20000
	Hypson	20037
	Internal	20278, 20637
<b>J</b>	JBL	20278
	JMB	20352
<b>K</b>	Kam Brook	20037
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<b>L</b>	LG	20037, 20480, 21237
	Lloyd's	20000
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<b>M</b>	Magnasonic	20278, 21278
	Magnavox	20081, 20000, 21781
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	Medion	20352
	Memorex	20162, 20037, 21162, 21237, 21262
	MGA	20240
	Mitsubishi	20048, 20081, 20043, 20807
<b>O</b>	Optimus	20162, 21162, 21262
	Orion	20002, 20352, 20479, 20742, 21479
<b>P</b>	Pace	20352
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	Palsonic	20000
	Panasonic	20035, 20162, 21035, 21162, 21262
	Penney	20035, 20037, 20240, 21035, 21237
	Philips	20081
	Portland	20637
<b>Q</b>	Quasar	20035, 20162, 21035, 21162
<b>R</b>	Radiola	20081
	RadioShack	20000
	RCA	20060, 20035, 20048, 20240, 20807, 21035, 21060
<b>S</b>	Saba	20320
	Samsung	20240, 20432, 21014
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	Schneider	20081, 20000
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	Sony	20032, 20000, 21232
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	Symphonic	20000
<b>T</b>	Tatung	20352
	Teac	20037, 20000, 20637, 20642
	Technics	20081
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<b>U</b>	United	20742
<b>W</b>	White Westinghouse	20278, 20637
<b>Z</b>	Zenith	20000, 20479, 20637, 21479
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<b>A</b>	Akai	11903
<b>B</b>	Broksonic	11938
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<b>M</b>	Magnavox	11944
<b>P</b>	Panasonic	11946, 11947
<b>R</b>	RCA	11953

<b>S</b>	Sharp	11917
	Sylvania	11944
	Symphonic	11944
<b>T</b>	Toshiba	11945

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<b>S</b>	Sharp	20807
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<b>A</b>	Akai	30899
<b>E</b>	Emerson	30821
	ESA	30821
<b>M</b>	Magnavox	30821
<b>P</b>	Panasonic	31362, 31462
<b>R</b>	RCA	31132
<b>S</b>	Sharp	30630
	Superscan	30821
	Sylvania	30821
	Symphonic	30821
<b>T</b>	Toshiba	31045

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<b>A</b>	A-Mark	20037, 20240, 20000, 20278, 20046
	ABS	21972
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	Adventura	20037, 20240, 20000
	Aiko	20278
	Aim	20278, 20348, 20642
	Aiwa	20037, 20032, 20000, 20209, 20041, 20348, 20352, 20479, 20742, 21137
	Akai	20037, 20240, 20041, 20106, 20315, 20348, 20352, 20642
	Akura	20041
	Alba	20081, 20000, 20209, 20278, 20315, 20348, 20352
	Alienware	21972
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	Allstar	20081
	America Action	20278
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	Amstrad	20000, 20278
	Anam	20162, 20037, 20240, 20278, 20226, 20480
	Anam National	20162, 20226, 21162, 21562
	Ansonic	20000
	Aristona	20081
	ASA	20037, 20081
	Asha	20240
	Astra	20035, 20240
	Asuka	20037, 20081, 20000, 20038

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	Audiovox	20037, 20278, 20038
	Avis	20000
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	Awa	20037, 20043, 20278, 20642

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	Basic Line	20104, 20278, 20046
	Beaumarck	20240
	Beko	20104
	Bell & Howell	20035, 20048, 20039, 20000, 20104, 20046, 20479
	Bestar	20278
	Black Diamond	20642
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	Blaupunkt	20162, 20081, 20226
	Blue Sky	20037, 20209, 20278, 20348, 20352, 20480, 20642, 20742, 21137
	BPL	20046
	Brandt	20041, 20320
	Brandt Electronique	20041
	Brinkmann	20209, 20348
	Broksonic	20184, 20121, 20209, 20002, 20348, 20479, 21479
	Bush	20081, 20000, 20209, 20278, 20315, 20348, 20352, 20642, 20742

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	Candle	20037, 20038
	Canon	20035
	Capehart	20002
	Carena	20081, 20209
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	Carver	20035, 20081
	Casio	20000
	Cathay	20278
	CCE	20278
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	Changhong	20048, 20081
	Cimline	20209
	Cineral	20278
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	Citizen	20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278
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	Clatronic	20000, 21593
	Colortyme	20060, 20035, 20045, 20278
	Colt	20000
	Combitech	20352
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	Craig	20037, 20047, 20240
	Criterion	20000

	Crosley	20035, 20081, 20000
	Crown	20037, 20278, 20480
	Curtis Mathes	20060, 20035, 20162, 20240, 20000, 20041, 20278, 20432, 21035
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	CyberPower	21972
	Cyrus	20081

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	Dansai	20278
	Dantax	20352
	Daytron	20037, 20278
	De Graaf	20048, 20081, 20042, 20104, 20046
	Decca	20081, 20000, 20067, 20209, 20041, 20352
	Degraff	20048, 20081, 20042, 20104
	Deitron	20278
	Dell	21972
	Denon	20081, 20042
	Derwent	20041
	Diamant	20037
	Diamond	20348
	Digitor	20642
	DirecTV	20739
	Domland	20209
	DSE	20642
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	Dumont	20081, 20000, 20104
	Durabrand	20039, 20038, 20642
	Dynatech	20240, 20000
	Elbe	20278, 20038
	Electrohome	20060, 20037, 20240, 20000, 20043, 20209
	Electroponic	20037
	Elin	20240
	Elta	20278
	Emerald	20184, 20121
	Emerex	20032
	Emerson	20035, 20037, 20184, 20039, 20240, 20045, 20000, 20121, 20043, 20209, 20002, 20278, 20348, 20479, 20637, 21278, 21479, 21593
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	EuroLine	21593

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	Fidelity	20240, 20000, 20352, 20432
	Finlandia	20037, 20048, 20081, 20000, 20042, 20104, 20043, 20046, 20106, 20226
	Finlux	20081, 20000, 20042, 20104

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	Firstline	20037, 20045, 20042, 20043, 20209, 20278, 20348, 20480, 21137
	Fisher	20039, 20047, 20000, 20104, 20046
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	Fuji	20035, 20033
	Fujitsu	20037, 20045, 20000
	Fujitsu General	20037
	Funai	20037, 20000, 20278, 21593
	Galaxi	20000
	Galaxis	20278
	Garrard	20000
	Gateway	21972
	GE	20060, 20035, 20048, 20240, 20000, 20226, 20320, 20807, 21035, 21060
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	Gemini	20060
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	Genexxa	20037, 20000, 20104, 20278
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	GoldStar	20035, 20037, 20039, 20000, 20209, 20278, 20038, 20225, 20226, 20480, 21137, 21237
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	GPX	20037
	Gradiente	20000
	Graetz	20240, 20104, 20041
	Granada	20035, 20037, 20048, 20081, 20240, 20000, 20042, 20104, 20046, 20226
	Grandin	20037, 20000, 20209, 20278, 20742
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	Haaz	20348
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	Hanseatic	20037, 20081, 20209, 20038
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	Harley Davidson	20000
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	Hinari	20240, 20209, 20041, 20278, 20352
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	Hitachi	20035, 20037, 20081, 20240, 20045, 20000, 20042, 20041, 20046, 20089
	Hoehner	20278, 20642
	Hornophon	20081
	Howard Computers	21972
	HP	21972

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	Humax	20739
	Hush	21972
	Hypson	20037, 20000, 20209, 20278, 20352, 20480
	Hytek	20047, 20000
	iBUYPOWER	21972
	Imperial	20000
	Ingersol	20240, 20209
	Interbuy	20037
	Interfunk	20081, 20104
	Internal	20278, 20637
	International	20037, 20278, 20642
	Intervision	20037, 20000, 20209, 20278, 20348
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	ITT Nokia	20240, 20104, 20041, 20106
	ITV	20037, 20278
	Janeil	20240
	JBL	20278
	Jensen	20067, 20041
	JMB	20209, 20348, 20352, 20742
	Joyce	20000
	JVC	20184, 20081, 20045, 20067, 20041, 21162
	Kambrook	20037
	Karcher	20081, 20278, 20642
	KEC	20037, 20278
	Kendo	20037, 20209, 20278, 20106, 20315, 20348, 20642
	Kenwood	20067, 20041, 20038, 20046
	KIC	20000
	Kimari	20047
	Kneissel	20037, 20209, 20278, 20348, 20352
	Kodak	20035, 20037
	Kolin	20043, 20041
	Kolster	20209
	KTV	20000
	Kuba	20047
	Kuba Electronic	20047
	Lenco	20278
	LG	20037, 20240, 20045, 20000, 20042, 20209, 20278, 20038, 20225, 20480, 21137, 21237
	Lifetec	20209, 20348
	Linksys	21972
	Lloyd's	20240, 20000, 20038
	Loewe	21062, 20162, 20037, 20081, 21262, 21562
	Logik	20240, 20000, 20209, 20106
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	Hush	21972
	Hypson	20037, 20000, 20209, 20278, 20352, 20480
	Hytek	20047, 20000
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	Ingersol	20240, 20209
	Interbuy	20037
	Interfunk	20081, 20104
	Internal	20278, 20637
	International	20037, 20278, 20642
	Intervision	20037, 20000, 20209, 20278, 20348
	Irradio	20037, 20081, 21137
	ITT	20240, 20104, 20041, 20046, 20106
	ITT Nokia	20240, 20104, 20041, 20106
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	Janeil	20240
	JBL	20278
	Jensen	20067, 20041
	JMB	20209, 20348, 20352, 20742
	Joyce	20000
	JVC	20184, 20081, 20045, 20067, 20041, 21162

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	Kambrook	20037
	Karcher	20081, 20278, 20642
	KEC	20037, 20278
	Kendo	20037, 20209, 20278, 20106, 20315, 20348, 20642
	Kenwood	20067, 20041, 20038, 20046
	KIC	20000
	Kimari	20047
	Kneissel	20037, 20209, 20278, 20348, 20352
	Kodak	20035, 20037
	Kolin	20043, 20041
	Kolster	20209
	KTV	20000
	Kuba	20047
	Kuba Electronic	20047

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	Lenco	20278
	LG	20037, 20240, 20045, 20000, 20042, 20209, 20278, 20038, 20225, 20480, 21137, 21237
	Lifetec	20209, 20348
	Linksys	21972
	Lloyd's	20240, 20000, 20038
	Loewe	21062, 20162, 20037, 20081, 21262, 21562
	Logik	20240, 20000, 20209, 20106
	Lumatron	20278, 21137
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M Electronic	20037, 20240, 20000, 20038
Magnadyne	20081
Magnasonic	20037, 20240, 20000, 20278, 21278
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Manesth	20081, 20045, 20209
Marantz	20035, 20081, 20209, 20038
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Matsui	20037, 20240, 20209, 20278, 20348, 20352, 20742
Matsushita	20035, 20162, 20081, 20226, 21162
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DENON			
Model No.	DVD-550	DVD-2800II	DVD-800
Modellnr	DVD-700	DVD-2900	DVD-1600
Modèle numéro	DVD-900	DVD-2910	DVD-2000
Modello No	DVD-1000	DVD-2930	DVD-2500
Nº de modelo	DVD-1400	DVD-3800	DVD-3000
Modelnr	DVD-1500	DVD-3910	DVD-3300
Modellnr	DVD-1710	DVD-3930	
	DVD-1910	DVD-A11	
	DVD-1930	DVD-A1	
	DVD-2200	DVD-A1XV	
	DVD-2800		

- [ ]\*: 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 preimpostazione 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.

- ※1 : These preset codes can be recorded in the SAT/CBL mode.  
: Diese voreingestellten Codes können im SAT/CBL-Modus aufgenommen werden.  
: Ces codes de présélection peuvent être enregistrés en mode SAT/CBL.  
: I codici preimpostati possono essere registrati nel modo SAT/CBL.  
: Es posible guardar estos códigos preajustados en el modo SAT/CBL.  
: Deze voorkeuzecodes kunnen worden opgenomen in de SAT/CBL-modus.  
: Dessa förinställningskoder kan lagras i SAT/CBL-läget.
- ※2 : These preset codes can be recorded in the TV mode.  
: Diese voreingestellten Codes können im TV-Modus aufgenommen werden.  
: Ces codes de présélection peuvent être enregistrés en mode TV.  
: I codici preimpostati possono essere registrati nel modo TV.  
: Es posible guardar estos códigos preajustados en el modo TV.  
: Deze voorkeuzecodes kunnen worden opgenomen in de TV-modus.  
: Dessa förinställningskoder kan lagras i TV-läget.
- ※3 : These preset codes can be recorded in the VCR mode.  
: Diese voreingestellten Codes können im VCR-Modus aufgenommen werden.  
: Ces codes de présélection peuvent être enregistrés en mode VCR.  
: I codici preimpostati possono essere registrati nel modo VCR.  
: Es posible guardar estos códigos preajustados en el modo VCR.  
: Deze voorkeuzecodes kunnen worden opgenomen in de VCR-modus.  
: Dessa förinställningskoder kan lagras i VCR-läget.
- ※4 : These preset codes can be recorded in the DVD mode.  
: Diese voreingestellten Codes können im DVD-Modus aufgenommen werden.  
: Ces codes de présélection peuvent être enregistrés en mode DVD.  
: I codici preimpostati possono essere registrati nel modo DVD.  
: Es posible guardar estos códigos preajustados en el modo DVD.  
: Deze voorkeuzecodes kunnen worden opgenomen in de DVD-modus.  
: Dessa förinställningskoder kan lagras i DVD-läget.







**DENON**

[www.denon.com](http://www.denon.com)

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