

# AV SURROUND RECEIVER

OPERATING INSTRUCTIONS BEDIENUNGSANLEITUNG MODE D'EMPLOI ISTRUZIONI PER L'USO INSTRUCCIONES DE FUNCIONAMIENTO GEBRUIKSAANWIJZING BRUKSANVISNING

#### **SAFETY PRECAUTIONS**



#### **CAUTION:**

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



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



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

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

#### **DECLARATION OF CONFORMITY**

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 73/23/EEC, 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 73/23/EEC, 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 73/23/EEC, 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 73/23/EEC, 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 73/23/EEC, 89/336/EEC y 93/68/EEC.

#### EENVORMIGHEIDSVERKLARING

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

EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de bepalingen van de Richtlijnen 73/23/EEC, 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 73/23/EEC, 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, trennen Sie bitte den Netzstecker von der Wandsteckdose ab.

Die Hauptstecker werden 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 definitivamente questo prodotto dalla rete di alimentazione elettrica, togliere la spina dalla relativa presa.

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

#### VOORZICHTIGHEID:

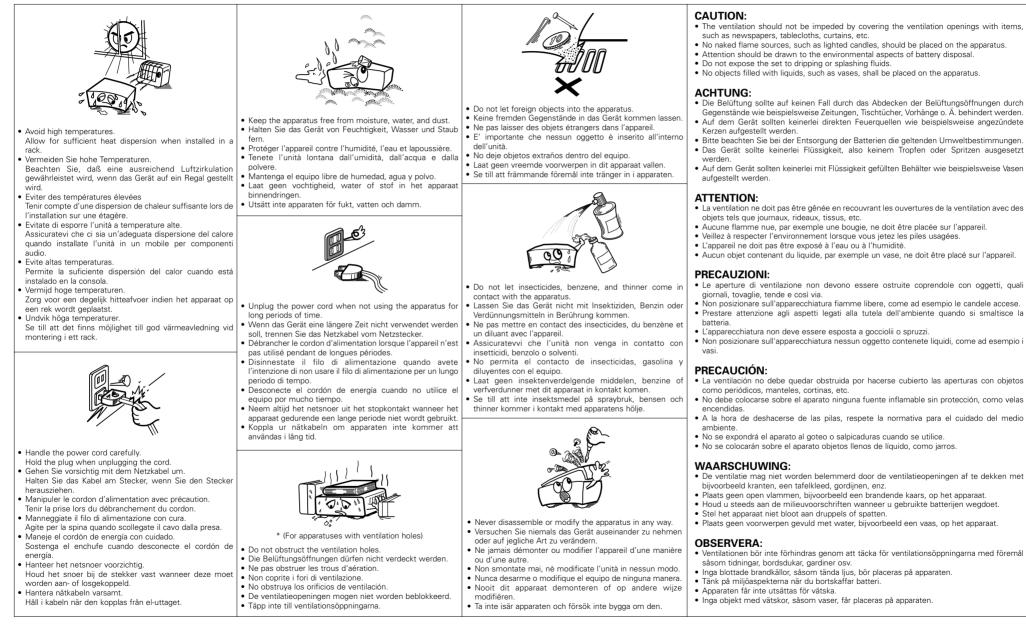
Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken.

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

#### FÖRSIKTIHETSMÅTT:

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

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



#### 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 chemical waste.



This product and the accessories packed together constitute the applicable product according to the WEEE directive except batteries.

#### HINWEIS ZUM RECYCLING:

Das Verpackungsmaterial dieses Produktes ist für 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 geben Sie die Batterien gemäß örtlichen Bestimmungen an den Sammelstellen oder Sondermüllplätzen ab.

Dieses Produkt zusammen mit den Zubehörteilen ist das geltende Produkt der WEEE-Direktive, davon ausgenommen sind die Batterien.

#### UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer de tout matériau conformément aux réglements de recylage locaux.

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

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux réglements locaux concernant les déchets chimiques.

Ce produit et les accessoires emballés ensemble sont des produits conformes à la directive DEEE sauf pour les piles.

#### 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 smaltire l'unità, osservare la normativa in vigore nel luogo di utilizzo.

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 WAT BETREFT HET RECYCLEREN:

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.

#### EN KOMMENTAR OM ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser. När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser. Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall. Denna apparat och de tillbehör som levereras med den är de som uppfyller gällande WEEE-direktiv, med undantag av batterierna. Thank you for choosing the DENON AVR-1507 AV Surround Receiver. This remarkable component has been engineered to provide superb surround sound listening with home theater sources such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources.

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

#### Contents

#### **Getting Started**

Accessories 2
Before using2
Cautions on installation 3
About the remote control unit3
Inserting the batteries
Operating range of the remote control unit
Part names and functions
Front panel ······4
Display4
Rear panel5
Remote control unit5, 6

Easy Setup Procedure
Easy to setup flow 7
Speaker layout [Basic layout]7
Speaker connections8
Connecting a DVD player and monitor9
Auto Setup
① Connecting a microphone
2 Before performing the Auto Setup procedure10
③ Switching the front speaker10
④ Starting Auto Setup
Error messages12

Connecting Other Sources	
Cable indications	13
Connecting a TV/DBS tuner	14
Connecting a video camera or video game	14
Connecting the external inputs (EXT. IN) terminals	14
Connecting a CD player	15
Connecting a tape deck, CD recorder or MD recorder	15
Connecting a VCR	15
Connecting the antenna terminals	
Connecting the iPod®	
Connecting the power supply cord	17

# Basic Operation Playing the input source 18 Turning the sound off temporarily (MUTING) 19 Listening over headphones 19 Switching the front speakers 19 Checking the currently playing program source, etc. 19 Switching the brightness of the display 19 Using the surround modes 19 Types of surround modes 19, 20 Selecting the play mode (DIRECT/STEREO) 20 Selecting the Dolby Digital and DTS Surround mode 21 (only with digital input) 21 Selecting the Dolby Pro Logic IIx (Pro Logic II) mode 22 Selecting the DTS NEO:6 mode 23 Surround modes and parameters 24 ~ 26

#### Using the DENON original surround modes

Types of surround modes and their features	
Selecting the DSP surround simulation	28
Setting the tone control	29
Adjusting the speaker volume	29
Listening to the radio	
Auto preset memory	29
Auto tuning	
Manual tuning	30
Preset memory	
Recalling preset stations	30
RDS (Radio Data System)	
RDS search	31
PTY search	÷ ·
TP search	32
RT (Radio Text)	32

Advanced Operation
Night mode
User mode function
Storing the settings in the memory
Calling the settings out
Combining the currently playing sound
with the desired image (VIDEO SELECT function)33
Personal memory plus function
Playing the iPod®
Listening to music in the Browse mode
Viewing still pictures and videos (only for iPods
equipped with the slideshow / video function)35
Disconnecting the iPod35
Recording the program source
(recording the source currently being monitored)35
About the memory functions35
Initialization of the microprocessor 35



Advanced Setup – Part 1	
System setup items and default values	
Navigating through the System Setup items37	
About the front display	
Input Setup	
Setting the Digital In Assignment	
Setting the iPod Assignment	
Setting the Audio Delay	
Setting the EXT. IN Subwoofer Level	
Setting the Auto Preset Memory	
Option Setup	
Setting the Volume Control40	
Setting the Auto Surround Mode40	

#### Advanced Setup – Part 2

Speaker Setup	
Setting the Speaker Configuration41	
Setting the Subwoofer Mode Setup42	
Setting the Distance42	
Setting the Crossover Frequency42	
Setting the Test Tone43	

#### 

Additional Information
Troubleshooting
<b>C</b>
Specifications 52

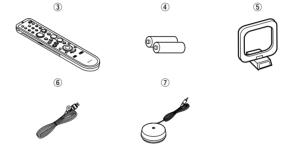
List of preset codes ......End of this manual

# **Getting Started**

#### Accessories

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

① Operating instructions1
2 Service station list1
③ Remote control unit (RC-1049)1
④ R6P/AA batteries
(5) AM loop antenna1
6 FM indoor antenna1
(7) Setup microphone (DM-S205) (Approx. 6 m)



#### Before using

Pay attention to the following before using this unit:

#### • Moving the unit.

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

#### 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.

#### • Before turning the power operation button on.

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

#### Store these instructions in a safe place.

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

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

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

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

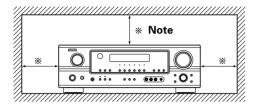
**Getting Started** 

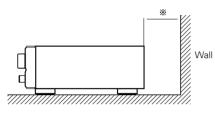
#### **Getting Started**

#### Cautions on installation

#### Note:

For 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 controlling the AVR-1507, the attached remote control unit (RC-1049) can also be used to control the following products:

2 Set two R6P/AA batteries in

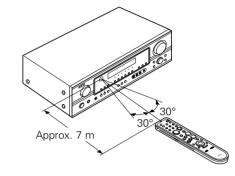
the indicated direction.

the battery compartment in

- 1 DENON component products
- 0 Component products other than DENON:
- Set using the preset memory function ( 1 page 44).

#### Operating range of the remote control unit

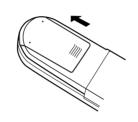
- Point the remote control unit at the remote sensor when operating it.
- The remote control unit can be used from a distance of approximately 7 meters, at a horizontal angle of up to 30° with respect to the sensor.



#### NOTE:

• It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.

- Inserting the batteries
- Remove the remote control unit's rear cover.



③ Put the rear cover back on.

#### Notes on batteries:

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the unit. (The attached 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 short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries from the remote control unit when you do not plan to use it for an extended period of time.
- 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 if it will not be in use for long periods.



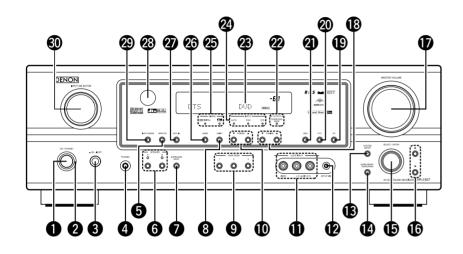
#### **Getting Started**

#### Part names and functions

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

#### **Front panel**

**Getting Started** 

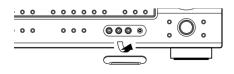


Power operation button
 (ON/STANDBY) ......(10)
 Power indicator
 (10)

<b>3</b> Power switch(10, 35)	
<b>4 Headphones jack (PHONES)</b> (19)	
ANALOG button(18)	
<b>6</b> SPEAKER buttons(10, 35)	
SURROUND BACK button(21)	
<b>3 SHIFT button</b> (30)	
USER MODE buttons(33)	
<b>(D) PRESET buttons</b> (29, 30)	

#### **()** V. AUX INPUT terminals

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



BETUP MIC jack(10)
SYSTEM SETUP button(37)
SURR. MODE/SURR. PARA button
B SELECT/ENTER knob(20, 28)

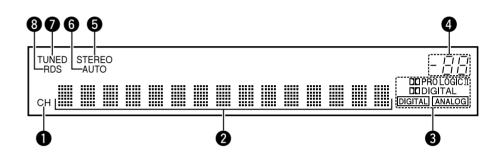
• The **SELECT/ENTER** knob on the main unit operates in the same way as the **CURSOR** < and ▷ buttons on the remote control unit.



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

<b>(b)</b> Cursor buttons ( $\Delta$ , $\nabla$ )(21)	(18)
MASTER VOLUME control knob (18)	SIGNAL indicators(21)
<b>1</b> TUNING buttons (▲, ▼)(30)	BAND button (30)
(32) BT button	<b>② EXT. IN button</b> (18)
② PTY button	Remote control sensor     (3)
② RDS button	INPUT MODE button
SURROUND BACK indicator	INPUT SELECTOR knob(18)
🕲 Display	

#### Display



**Signal channel indicator** Lights when the preset channel is displayed at

- 2.
- **2** Information display
- **③** Input signal indicators

#### **4** Master volume indicator

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

#### **5** STEREO indicator

This lights when an FM stereo broadcast has been received.

#### 6 AUTO indicator

This lights when the broadcast station is selected in the AUTO tuning mode.

#### **1** TUNED indicator

This lights when an FM/AM broadcast has been received.

#### 8 RDS indicator

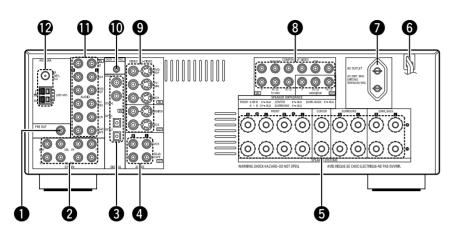
This lights when an RDS broadcast has been received.



**Getting Started** 

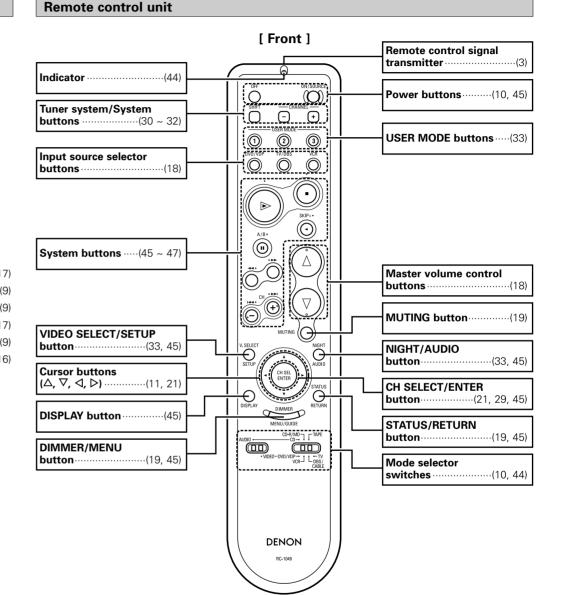
**Getting Started** 

#### **Rear panel**



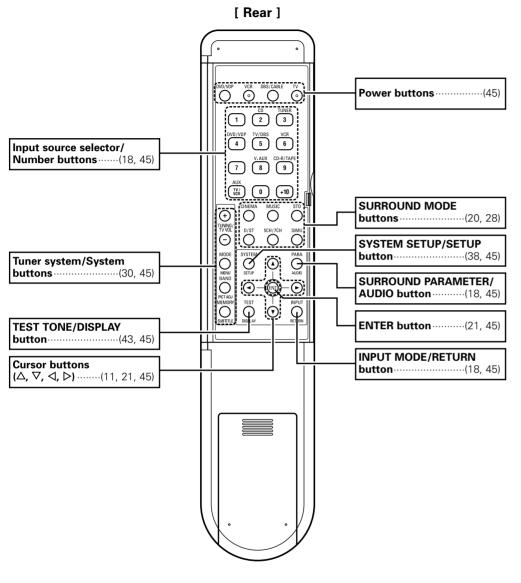
PRE OUT terminal (8)	
<b>2</b> EXT. IN terminals(14)	
<b>3</b> DIGITAL terminals	
(Optical/Coaxial)(9, 15)	
4 AUDIO OUT terminals(9, 15)	
Speaker terminals(8)	
<b>6</b> Power supply cord (17)	

<b>AC outlet</b> (1	7
COMPONENT VIDEO terminals	(9
VIDEO/S-VIDEO terminals	(9
DOCK CONTROL jack(1	7
AUDIO IN terminals	(9
ANTENNA terminals ······(1	6









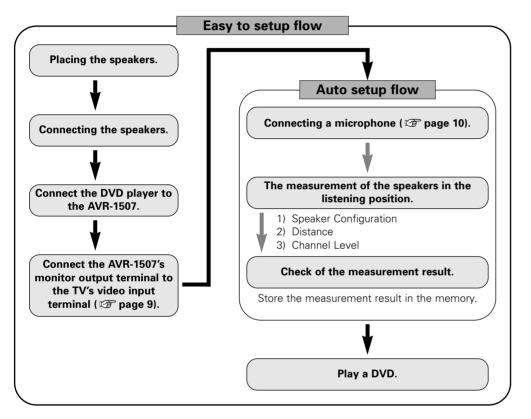
#### NOTE:

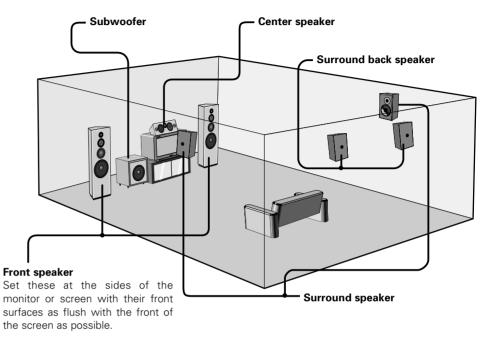
• If buttons on the front or rear are pressed strongly, the button on the opposite side will be activated too.



# **Easy Setup Procedure**

- This section contains the basic steps necessary to configure the AVR-1507 according to your listening room environment and the source equipment and loudspeakers you are using.
- To set the sound field manually (12 page 41 ~ 43).





Speaker layout [Basic layout]

Example of basic layout with eight speakers and a monitor.

#### ø

• Do not plug in the power supply cord until all connections have been completed.



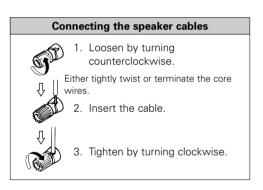
#### Speaker connections

Connect the speaker terminals with the speakers making sure that like polarities are matched ( $\oplus$  with  $\oplus$ ,  $\ominus$  with  $\ominus$ ).

#### NOTE:

When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel and screws.

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



#### Speaker impedance

Speaker	Impedance
Front A, B	6 ~ 16 Ω/ohms
Front A+B	12 ~ 16 Ω/ohms
Center	
Surround	6 ~ 16 Ω/ohms
Surround back	

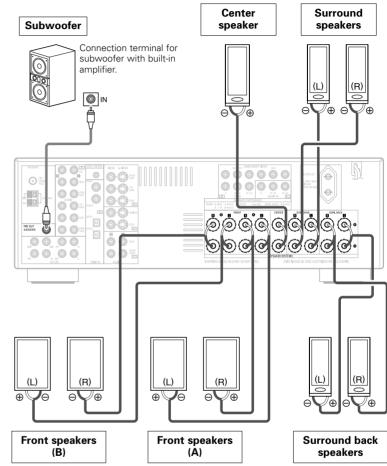
#### Note on speaker impedance

When using speakers with an impedance below the designated value (for example 4  $\Omega$ /ohms), playing for long periods of time with the volume high could cause the temperature to rise, activating the protection circuit. When the protection circuit is activated, the output to the speakers is cut off and the power indicator blinks. If this happens, unplug the power cord, wait for the set to cool off and improve ventilation around the unit. Also check the wiring of the input cables and the speaker cables. After doing this, plug the power cord back in and turn the unit's power back on. If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

#### 

• With the AVR-1507, up to ten speakers can be connected for surround playback.

• When making connections, also refer to the operating instructions of the other components.



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



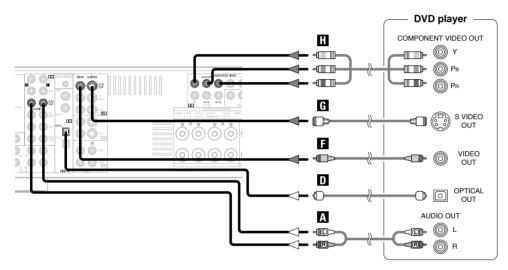
#### Easy Setup Procedure

#### Connecting a DVD player and monitor

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

#### • Precaution when using S-Video terminals

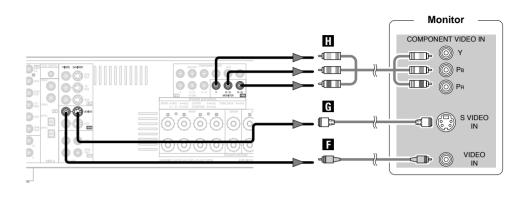
AVR-1507's S-Video terminals (input and output) and video terminals (input and output) have independent circuit structures, so that video signals input from the S-Video terminals are only output from the S-Video terminal outputs and video signals input from the terminals are only output from the terminal outputs. When connecting AVR-1507 with equipment that is equipped with S-Video terminals, keep the above point in mind and make connections according to the equipment's instruction manuals.



\* Audio signal flow is shown with white arrows, video signal flow is shown with gray arrows.

• Connect a non-DVD video disc player (such as a laser disc, VCD/SVCD, or future high definition disc player) to the DVD/VDP terminals in the same way.

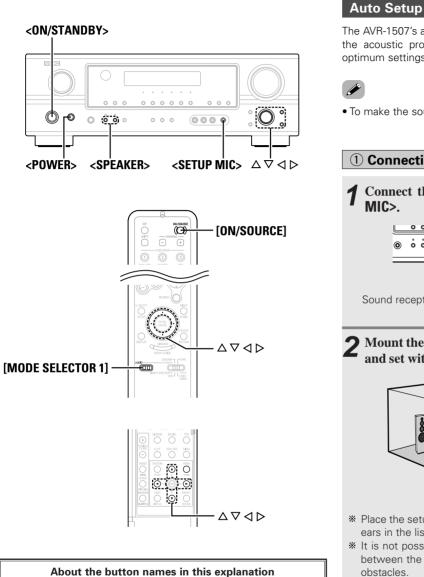
• For best picture quality (especially with progressive DVD and other high definition sources), choose the component video connection to your monitor. S-Video and composite video outputs are also provided if your monitor does not have component video inputs.



• The component video input and/or output terminals may be labelled differently on some monitors or video components. Check the owner's manuals for other components for further information.



A



- Subtraction of the main unit
- [ ] : Buttons on the remote control unit

Button name only :

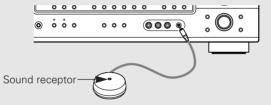
Buttons on the main unit and remote control unit

The AVR-1507's auto setup use the attached microphone to measure the acoustic properties in the room and automatically make the optimum settings.

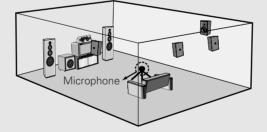
 $\bullet$  To make the sound field settings manually (  $\textcircled{\mbox{\sc eps}}$  page 41 ~ 43).

#### **1** Connecting a microphone

**1** Connect the attached setup microphone to **SETUP** MIC>.



**2** Mount the setup microphone on a camera tripod, etc. and set with the receptor pointing towards the ceiling



- \* Place the setup microphone's sound receptor at the height of the ears in the listening position.
- \* It is not possible to measure properly if there are any obstacles between the speakers and microphone. Check that there are no obstacles.

_	
2	) Before performing the Auto Setup procedure
1	Turn on your subwoofer.
*	Set the volume to halfway and set the crossover frequence the maximum or Low pass filter off if your subwoofer can ad the output volume and the crossover frequency. Some subwoofers have a standby mode. Be sure to turn function off before performing the Auto Setup procedure.
2	Turn on your monitor.
~	
3	Press <b><power></power></b> .
_	ON:
	he power indicator lights red.
	OFF:
Т	he power turns off and the indicator is off.
_	
4	Press <on standby=""> or [ON/SOURCE]. • The power indicator blinks green and the power turns on.</on>
-	
5	Set [MODE SELECTOR 1] to "AUDIO".
5	Set [MUDE SELECTOR 1] to "AUDIO".
5 ∕	Set [MUDE SELECTOR 1] to "AUDIO".
j j k	Set [MUDE SELECTOR 1] to "AUDIO".

#### **3** Switching the front speaker

Press **SPEAKER>** to select the front speaker (Front A, Front B or Front A+B).



#### Easy Setup Procedure

#### **④** Starting Auto Setup

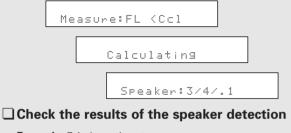
#### Press $\triangleleft$ to start the Auto Setup.

• Start the measurements.

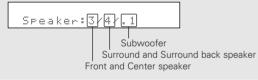
\* Measurement of each channel is performed as follows:

\*1: The subwoofer speaker is measured twice.

\*\* After each channel is measured, "Calculating" appears. The display switches to the speaker check display automatically.



# Example: 7.1-channel systems



# **2** Press $\triangle \nabla$ to select "Store", then press $\triangleleft$ .

#### Store:

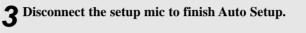
Store the checked measurement values. All parameters are stored.

#### Retry:

Measure again.

#### Cancel:

Cancel the checked measurement values.





## **A**

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

#### NOTE:

- Do not change the speaker connections or subwoofer volume after making the measurements.
- Do not turn off the power while the data is being stored.

#### Cautions during measurements:

- Loud test tones are output during the measurements. Be careful for example when small children are nearby.
- Proper measurements may not be possible if there are obstacles between the speaker and the setup microphone.
- During the measurements, do not stand between or near the speakers and setup microphone.
- To avoid influencing the measurements, turn off the power of airconditioners or any other equipment producing sound in the room. Perform the measurements with the room as quiet as possible.
- Measurement is cancelled when **VOLUME** is operated while the Auto Setup is performed.

#### □ About automatic retry

To confirm the results of the measurements, remeasurement is automatically performed.

Remeasurement is performed up to two times. During this time, "Retry1" or "Retry2" is displayed on the display.

Overload Retry1



#### **Error messages**

An error message is displayed if the measurements could not be completed automatically due to the speaker layout, the measuring environment, etc. Please check the following matters, reset the pertinent items, and measure again.

Be sure to turn off the AVR-1507's power before checking the speaker connections.

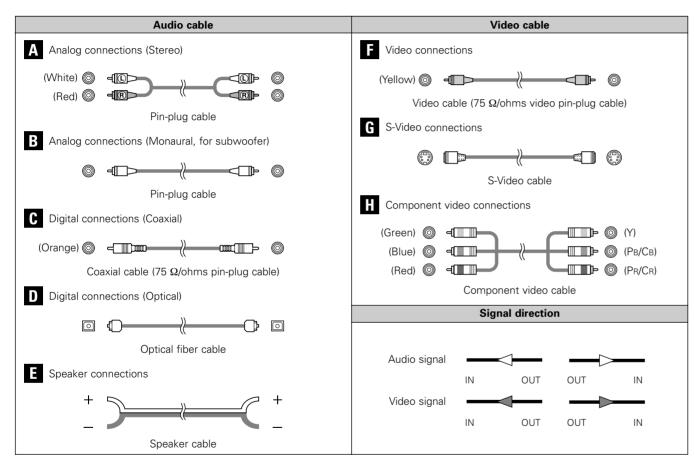
# Press $\triangle \nabla$ to select the items, then press $\triangleleft$ .

Example	Cause	Measures
Caution:SP None	<ol> <li>The speakers required for producing suitable reproduction have not been detected.</li> </ol>	Check that the pertinent speakers are properly connected.
Caution :Phase FL/R	(2) The speaker polarity is connected in reverse.	<ul> <li>Check the polarity of the pertinent speakers.</li> <li>For some speakers, the screen below may be displayed even though the speakers are properly connected.</li> <li>If so, select "Skip&lt;".</li> </ul>
Caution Overload (Exit	③ When accurate measurements cannot be made due to the input level of the microphone being too high.	<ul> <li>Set up the speakers so that their position is farther away from the listening position.</li> <li>Lower the volume of the subwoofer speaker.</li> </ul>

# Easy Setup Procedure

#### **Cable indications**

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



#### NOTE:

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



# Connecting a TV/DBS tuner

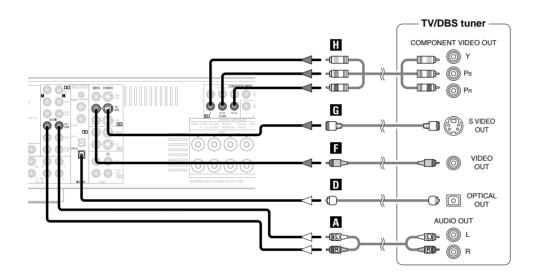
**Connecting Other Sources** 

• To connect the digital audio output from the TV or DBS tuner, you can choose from either the coaxial or optical connections. If you choose to use the coaxial connection, it needs to be assigned. For more information about Digital Input Assignment (

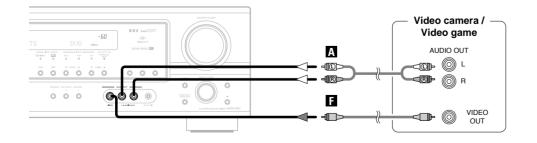
#### • Precaution when using S-Video terminals

AVR-1507's S-Video terminals (input and output) and video terminals (input and output) have independent circuit structures, so that video signals input from the S-Video terminals are only output from the S-Video terminal outputs and video signals input from the terminals are only output from the terminal outputs. When connecting AVR-1507 with equipment that is equipped with S-Video terminals, keep the above point in mind and make connections according to the equipment's instruction manuals.

• The signals input to the component (color difference) video terminals are not output from the VIDEO output terminal (yellow) or the S-Video output terminal.

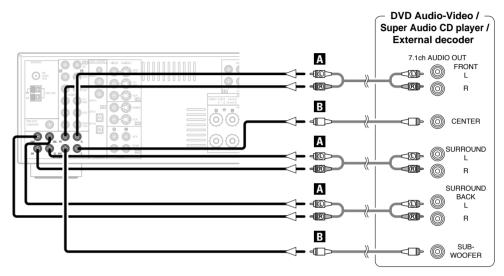


#### Connecting a video camera or video game



#### Connecting the external inputs (EXT. IN) terminals

- These terminals are for inputting multi-channel audio signals from an outboard decoder, or a component with a different type of multi-channel decoder, such as a DVD-Audio player, or a multi-channel Super Audio CD player, or other future multi-channel sound format decoder.
- $\bullet$  The video signal connection is the same as that for a DVD player ( oxtimes page 9).
- For instructions on playback using the external input (EXT. IN) terminals ( 127 page 18).

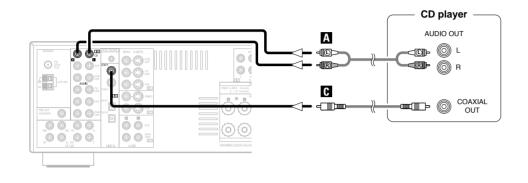


• With discs on which special copyright protection measures have been taken, however, the digital signals may not be output from the DVD player. In this case, connect the DVD player's analog multi-channel output to the AVR-1507's EXT. IN terminals for playback. Also refer to your DVD player's operating instructions.

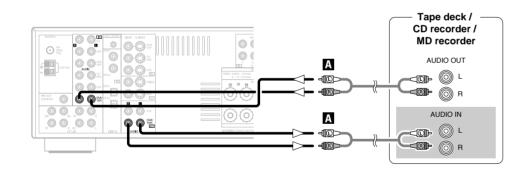
#### **Connecting Other Sources**

#### Connecting a CD player

To connect the digital audio output from the CD player, you can choose from either the coaxial or optical connections. If you choose to use the optical connection, it needs to be assigned. For more information about Digital Input Assignment ( 1277 page 38).



#### Connecting a tape deck, CD recorder or MD recorder



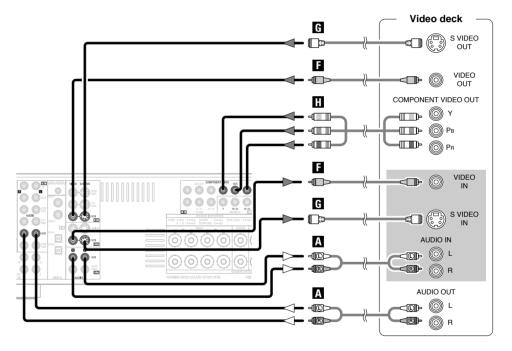
#### **Connecting a VCR**

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

#### • Precaution when using S-Video terminals

AVR-1507's S-Video terminals (input and output) and video terminals (input and output) have independent circuit structures, so that video signals input from the S-Video terminals are only output from the S-Video terminal outputs and video signals input from the terminals are only output from the terminal outputs. When connecting AVR-1507 with equipment that is equipped with S-Video terminals, keep the above point in mind and make connections according to the equipment's instruction manuals.

• The signals input to the component (color difference) video terminals are not output from the VIDEO output terminal (yellow) or the S-Video output terminal.



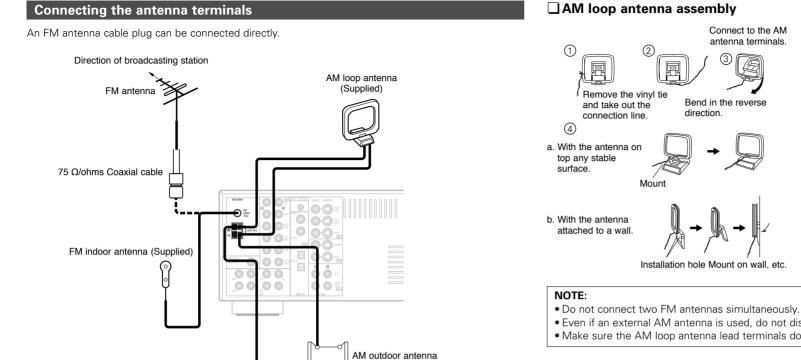
• When recording to a VCR, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVR-1507 VCR OUT terminal.

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

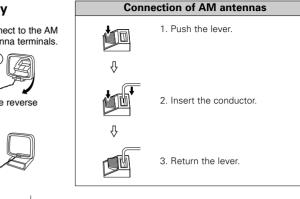
TV IN  $\rightarrow$  Video cable : VCR OUT  $\rightarrow$  Video cable



#### **Connecting Other Sources**



Ground



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



#### **Connecting Other Sources**

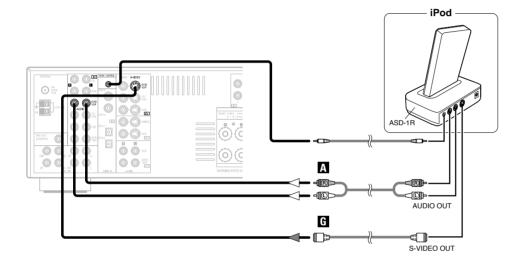
#### Connecting the iPod®

When using an iPod, you must connect the Control Dock for iPod (ASD-1R, sold separately) and the DOCK CONTROL jack on the AVR-1507 with a mini-jack and assign the iPod to any AUDIO and/or S-VIDEO terminal(s).

The diagram below shows an example of connections for when the iPod is assigned to the  $\mathsf{DVD}/\mathsf{VDP}$  terminal.

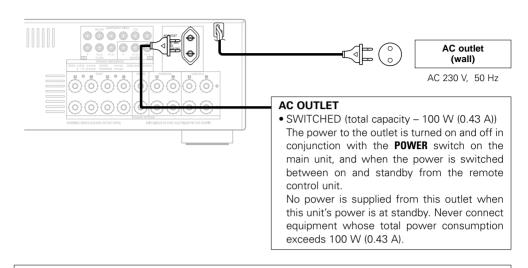
\* For instructions on assigning the iPod to a specific terminal, see "Setting the iPod Assignment" (127 page 38).

\* For instructions on playing the iPod, see "Playing the iPod" (1 page 33 ~ 35).



#### **6**

• The optional standard Control Dock for iPod is DENON ASD-1R sold separately.

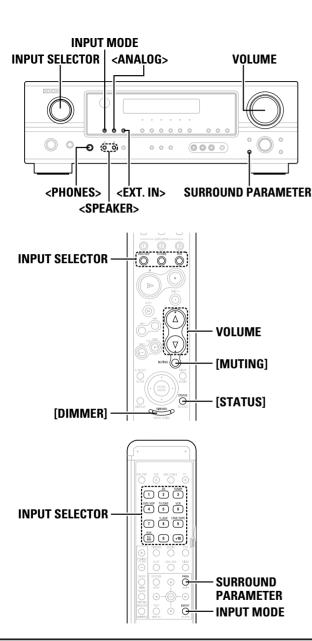


#### NOTE:

Connecting the power supply cord

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





#### Playing the input source

Use INPUT SELECTOR to select the input source you want to play.

# **2** Press INPUT MODE.

\*\* Press <ANALOG> to select "ANALOG", <EXT. IN> to select "EXT. IN".

#### AUTO (All auto mode):

- The type of input signal is detected and the AVR-1507's surround mode is switched automatically. Can be selected for sources for which the Digital In Assignment mode (IDF) page 38) is made. The mode switches automatically to DTS/ Dolby Digital/ PCM. The input switches to the analog input terminals is no digital signals are being input.
- The INPUT mode indicator lights.

**PCM** (exclusive PCM signal playback mode) and **DTS** (exclusive DTS signal playback mode):

- Played when the various signals are input. Noise may be generated when a mode different from the input signal is set.
- The INPUT mode indicator lights.

**ANALOG** (exclusive analog audio signal playback mode) and **EXT. IN** (External decoder input terminal selection mode): The signals input to the various input terminals are played.

\*\* To lower the subwoofer channel level in the EXT. IN mode, press SURROUND PARAMETER and select "SW. ATT". For some players the playback level of the SW channel may seen strong. If so, set to "ON".

# **3** Start playback on the selected component.

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

#### Use **VOLUME** to adjust the volume.

- •The volume level is displayed on the master volume level display.
- \*\* The volume can be adjusted between the range of -80 ~ 0 ~ 18 dB. Depending on the channel level settings and the different surround mode settings and when in the down-mix mode, it may not be possible to adjust the volume to 18 dB.

• Canceling the EXT. IN mode:

Press  $\ensuremath{\text{INPUT}}$  MODE or  $\ensuremath{\text{-ANALOG}\text{-}}$  to switch to the desired input mode.

- To use the EXT. IN mode together with a picture, select the input source to which the video signal is connected first, then set the input mode.
- The "DIGITAL" indicator lights when digital signals are being input properly. If the "DIGITAL" indicator does not light, check whether the Digital In Assignment mode (1277) page 38) and connections are correct.

#### NOTE:

- When the input mode is set to the external input (EXT. IN), the surround mode cannot be set.
- In play modes other than the external input mode, the signals connected to these terminals cannot be played.

#### Cautions when playing DTS sources:

- For DTS sources, be sure to connect the device to the digital input terminal and set "AUTO" or "DTS" for the input source. Noise will be generated if you play in the "ANALOG" or "PCM" mode.
- When playing DTS signals in the "AUTO" mode, noise may be generated when you first start playing and during searching. If so, play in the "DTS" mode.

About the button names in this explanation

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

#### Button name only :

Buttons on the main unit and remote control unit

#### 18 ENGLISH

#### Turning the sound off temporarily (MUTING)

#### Press [MUTING].

\* You can adjust the muting level ( 2 page 40).

# Í

• Canceling MUTING mode:

To cancel the muting mode, either press **[MUTING]** or adjust the volume.

#### Listening over headphones

#### Connect the headphones to <PHONES>.

• No sound is produced from the speakers automatically.

#### NOTE:

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

#### Switching the front speakers

Press **SPEAKER**> to turn the corresponding speaker pair on.

\* The front speaker A, B setting can be also be changed with **<SPEAKER>**.

Checking the currently playing program source, etc.

#### Press [STATUS].

• The current program source and various settings are indicated on the display.

#### Switching the brightness of the display

#### Press [DIMMER].

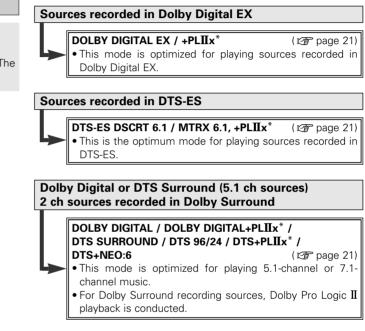
\* The brightness of the display can be adjusted in three steps. The display can also be turned off.

#### Using the surround modes

#### Types of surround modes and their features

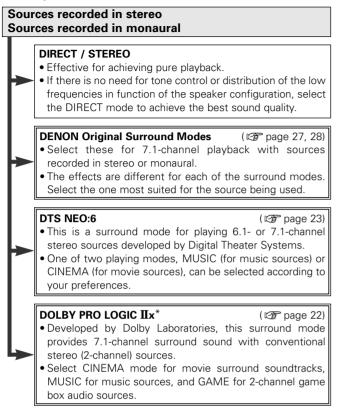
The AVR-1507 is equipped with many surround modes. We recommend using the surround modes as described below in order to achieve the maximum effect for the specific signal source.

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



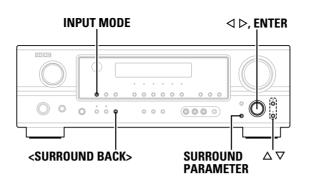


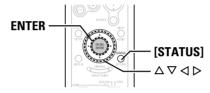
**Basic Operation** 

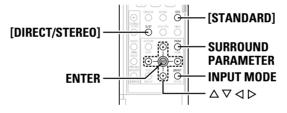




- Surround modes marked with an asterisk (\*) cannot be used when the surround back speaker is set to "NONE".
- $\bullet$  The "+PLIIx Cinema" mode cannot be selected when only one surround back speaker is being used.







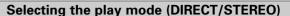
#### About the button names in this explanation

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

#### Button name only :

ſ

Buttons on the main unit and remote control unit



The AVR-1507 is equipped with two 2-channel playback modes exclusively for music. Select the mode to suit your tastes.

#### DIRECT mode

This mode is for playing with high quality sound. The audio signals are transmitted directly, without passing through the tone circuits, etc.

#### Press [DIRECT/STEREO] to select "DIRECT".

DIRECT ----- STEREO

#### STEREO mode

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

Press [DIRECT/STEREO] to select "STEREO".



#### **Basic Operation**

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

**1** Select an input source for which digital (COAXIAL or OPTICAL) is set ( \$\vert page 38).

# **?** Press INPUT MODE to select "AUTO".

# **3** Press [STANDARD] to select "STANDARD (Dolby/DTS Surround)".

#### Play a program source with the DIGINAL, dts mark.

- " DIGITAL " or " dts " lights, depending on the source.
- Operate <SURROUND BACK> to switch Surround Back CH ON/OFF. The SURROUND BACK indicator lights when <SURROUND BACK> is on.

# **5** Press SURROUND PARAMETER.

# **6** Press $\triangle \bigtriangledown$ to select the item, then press $\triangleleft \triangleright$ to set.

\* The parameter switches as shown below each time the button is pressed.

→ CINEMA EQ → D.COMP. → LFE → TONE DEFEAT →

\* If you do want the bass and treble to be adjusted, turn off the tone defeat mode.

#### CINEMA EQ.:

Use this if movie dialogues sound harsh to lower the treble sound. \* Effective source mode

Dolby Pro Logic  $I\!\!Ix$  / Dolby Pro Logic / Dolby Digital / DTS Surround / DTS NEO:6

#### D.COMP.:

- The dynamic range is compressed. Select one of four modes: "OFF", "LOW", "MID" (middle) or "HIGH".
- \* Effective source mode
- Dolby Digital /

DTS (For DTS sources, only displayed for compatible software.)

#### LFE:

- To play the various types of software properly, we recommend setting to the values shown below.
- To play Dolby Digital software: "0 dB"
- To play DTS movie software: "0 dB"
- To play DTS music software: "-10 dB"

#### TONE:

- Adjust the tone control.
- \* Can be set separately for the different surround modes. (Adjusted together for the Dolby/DTS SURROUND modes.)

#### SB CH OUT:

Select the play mode or surround back channel playback method. • The SURROUND BACK indicator lights.

(1) For multi-channel sources

- SB OFF (OFF):
- Not played.
- NON MTRX:

Surround channel signal played.

- MTRX ON:
- Surround channel signal played with digital matrix processing
- ES MTRX: DTS signal played with digital matrix processing.
- ES DSCRT:

Signal included in DTS-ES discrete 6.1-channel sources played. • PLIIx CINEMA:

Decoded in Dolby Pro Logic  $I\!\!I\!x$  Cinema mode, surround back signal played.

- \* Set the surround back speaker to "2sp" at Speaker Configuration mode (127 page 41).
- PLIIx MUSIC:

Decoded in Dolby Pro Logic  $I\!\!I\!x$  Music mode, surround back signal played.

※ Set the surround back speaker to "1sp" or "2sp" at Speaker Configuration mode ( c page 41).

- (2) For 2-channel sources
- OFF: Not played.
- **ON:** Surround channel signal played.

#### **7** Press ENTER or SURROUND PARAMETER.

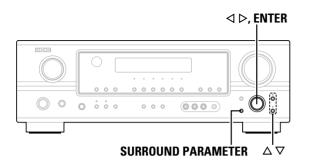
#### Dialog normalization function

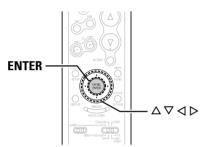
This operates automatically when playing Dolby Digital sources. This is a function for automatically correcting the standard signal level for different program sources. The correction value can be checked by pressing **[STATUS]**.

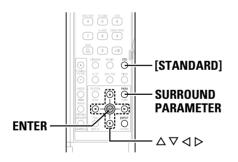


The numbers are the correction value when corrected to the standard level.









#### About the button names in this explanation

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

#### Button name only :

Buttons on the main unit and remote control unit

Selecting the Dolby Pro Logic IIx (Pro Logic II) mode

It is possible to play analog input signals and digital input signals (2channels) in the surround mode.

This mode is optimal for playing program sources recorded in Dolby Surround.

#### **1** Press [STANDARD] to select "DOLBY PLIIx".

DOLBY PLIIX - DTS NEO:6

#### **7** Play a program source.

# **3** Press SURROUND PARAMETER.

#### $\blacksquare Press \triangleleft \triangleright to select the play mode.$

#### CINEMA:

This mode is suited for playing movie sources recorded in Dolby Surround and general sources recorded in stereo.

#### MUSIC:

This mode is suited for playing stereo music signals in the surround mode. With music signals, the sound field expansion differs according to the type of music, the recording conditions (live/studio), etc.. Because of this, the MUSIC mode offers a number of optional parameters for further adjusting the sound field.

#### GAME:

This mode is optimum for games. The GAME mode can only be used for 2-channel audio sources.

#### PL:

This mode is compatible with conventional Dolby Pro Logic sources.

#### **5** Press $\triangle \nabla$ to select the item, then press $\triangleleft \triangleright$ to set.

- \* The mode switches as shown below each time the button is pressed.
- When the CINEMA mode:

• When the MUSIC mode:

```
MODE MUSIC -- TONE DEFEAT -- SURROUND BACK ----
```

```
└─► DEFAULT ◀━► CENTER WIDTH ◀━► DIMENSION ◀━► PANORAMA ◀──
```

• When the GAME mode:

• When the DOLBY PRO LOGIC mode:

```
--- MODE DOLBY PL --- CINEMA EQ --- TONE DEFEAT ---
```

\* If you do want the bass and treble to be adjusted, turn off the tone defeat mode.

#### When "MUSIC" mode is selected:

#### PANORAMA:

This is effective when the surround effect seems weak.

#### DIMENSION:

This shifts the center of the sound field image to the front or surround side. This compensates for when the sound field image seems unbalanced. (0 to 6, default : 3)

#### CENTER WIDTH:

A natural expansion to the front can be achieved by adjusting the center signal's output balance between the center and front channels. (0 to 7, default : 3)

# **6** Press ENTER or SURROUND PARAMETER.



#### Basic Operation

#### Selecting the DTS NEO:6 mode

It is possible to play analog input signals and digital input signals (2channels) in the surround mode.

# **1** Press [STANDARD] to select "DTS NEO:6".

DOLBY PLIIX - DTS NEO:6

# **2** Play a program source.

# **3** Press SURROUND PARAMETER.

 $\blacksquare Press \triangleleft \triangleright to select the play mode.$ 

#### CINEMA:

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

#### MUSIC:

This mode is suited mainly for playing music.

# **5** Press $\triangle \nabla$ to select the item, then press $\triangleleft \triangleright$ to set.

- \* The mode switches as shown below each time the button is pressed.
- When the CINEMA mode:

→ MODE CINEMA ↔ CINEMA EQ ↔ TONE DEFEAT ↔

--- DEFAULT --- SURROUND BACK ------

• When the MUSIC mode:

\* If you do want the bass and treble to be adjusted, turn off the tone defeat mode.

When "MUSIC" mode is selected:

#### CNTR. IMAGE:

The expansion of the center channel can be adjusted. (0.0 to 1.0, default : 0.3)

# **6** Press ENTER or SURROUND PARAMETER.

23 ENGLISH

#### Surround modes and parameters

										Signals and a	adjustability in	the differer	nt mode	es									
			Channel or	utput			Parameter (default values are shown in parentheses)																
Surround Mode	FRONT	CENTER	SURROUND	SURROUND BACK	20R-	D. COMP	LFE	SB CH	TONE CONTROL	cinema eq.	MODE	MODE ROOM				EFFEUI		DELAY TIME	PRO LOGIC $II/II$ x MUSIC MODE only			NEO:6 MUSIC MODE only	EXT. IN only
	L/R	GENTEN	L/R	L/R	WOOFER	*1	*2	OUT		GINEINA EQ.	WIODE	SIZE	LEVEL	NIGHT mode	DELAT HIME	PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE	SW ATT			
STEREO	0	×	×	×	0	O (OFF)	O (0 dB)	×	O (0 dB)	×	×	×	×	O (0FF)	×	×	×	×	×	×			
EXT. IN	0	O	O	O	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×	0			
DOLBY PRO LOGIC IIx	0	Ø	O	O	O	O (0FF)	×	0	O (0 dB)	O (NOTE 2)	O (CINEMA)	×	×	O (0FF)	×	O (OFF)	O (3)	O (3)	×	×			
DOLBY PRO LOGIC II	0	O	O	×	O	O (0FF)	×	0	O (0 dB)	O (NOTE 3)	O (CINEMA)	×	×	O (0FF)	×	O (OFF)	O (3)	O (3)	×	×			
DTS NEO:6	0	Ø	Ø	O	0	O (0FF)	×	0	O (0 dB)	O (NOTE 2)	O (CINEMA)	×	×	O (0FF)	×	×	×	×	O (0.3)	×			
DOLBY DIGITAL	0	O	O	O	O	O (0FF)	O (0 dB)	0	O (0 dB)	O (OFF)	×	×	×	O (0FF)	×	×	×	×	×	×			
DTS SURROUND	0	Ø	O	O	0	O (0FF)	O (0 dB)	0	O (0 dB)	O (0FF)	×	×	×	×	×	×	×	×	×	×			
5CH/7CH STEREO	0	Ø	O	O	O	O (0FF)	O (0 dB)	0	O (0 dB)	×	×	×	×	O (0FF)	×	×	×	×	×	×			
MONO MOVIE	0	Ø	O	O	0	O (0FF)	O (0 dB)	0	O (0 dB)	×	×	O (Medium)	O (10)	O (0FF)	×	×	×	×	×	×			
ROCK ARENA	0	Ø	O	Ø	O	O (0FF)	O (0 dB)	0	O (NOTE 1)	×	×	O (Medium)	O (10)	O (0FF)	×	×	×	×	×	×			
JAZZ CLUB	0	O	O	O	0	O (0FF)	O (0 dB)	0	O (0 dB)	×	×	O (Medium)	O (10)	O (0FF)	×	×	×	×	×	×			
VIDEO GAME	0	Ø	Ø	Ø	O	O (0FF)	O (0 dB)	0	O (0 dB)	×	×	O (Medium)	O (10)	O (0FF)	×	×	×	×	×	×			
MATRIX	0	O	O	O	O	O (0FF)	O (0 dB)	0	O (0 dB)	×	×	×	×	O (0FF)	O (30 msec)	×	×	×	×	×			
VIRTUAL	0	×	×	×	Ø	O (0FF)	O (0 dB)	×	O (0 dB)	×	×	×	×	O (0FF)	×	×	×	×	×	×			
	O: S	ignal				O: Ac	ljustable								O: Signal	O: Adjus	table						

O: Signal

×: No signal

• Turned on or off by speaker

×: Not adjustable

O: Signal ×: No signal

O: Adjustable ×: Not adjustable

NOTE 1 : BASS +6 dB, TREBLE +4 dB

configuration setting

NOTE 2 : This parameter is available when the "MODE" is set to "CINEMA". NOTE 3 : This parameter is available when the "MODE" is set to "CINEMA" or "PL".

\*1: When playing Dolby Digital and DTS signals.

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

24	
ENGLISH	

#### **Basic Operation**

#### Differences in surround mode names depending on the input signals

Button								Input sign	als						
					DTS				DOLBY	DIGITAL				DVD-AUDIO	
Surround Mode	Note	ANALOG	LINEAR PCM	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (3, 4, 5ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	176.4/ 192kHz
STANDARD											, ,				
DTS SURROUND															
DTS ES DSCRT6.1	*1	×	×	•	×	×	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1	*1	×	×	×	•	×	×	×	×	×	×	×	×	×	×
DTS SURROUND		×	×	0	0	•	×	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×	•	×	×	×	×	×	×	×	×
DTS + PLIIX CINEMA	*2	×	×	0	0	0	0	×	×	×	×	×	×	×	×
DTS + PLIIX MUSIC	*1	×	×	0	0	0	0	×	×	×	×	×	×	×	×
DTS + NEO:6	*1	×	×	×	0	0	0	×	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0	×
DTS NEO:6 MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×
DOLBY SURROUND	1														
DOLBY DIGITAL EX	*1	×	×	×	×	×	×	0	0	0	0	×	×	×	×
DOLBY DIGITAL		×	X	×	×	×	×	0	•	•	•	×	×	×	×
DOLBY DIGITAL+PLIIx CINEMA	*2	×	×	×	×	×	×	•	0	0	0	×	×	×	×
DOLBY DIGITAL+PLIIX MUSIC	*1	×	X	×	×	×	×	0	0	0	0	×	×	×	×
DOLBY PRO LOGIC IIx CINEMA		0	0	×	×	×	×	×	×	×	×	•	×	0	х
DOLBY PRO LOGIC IIx MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×
DOLBY PRO LOGIC IIx GAME		0	0	×	×	×	×	×	×	×	×	0	×	0	×
DOLBY PRO LOGIC II CINEMA		0	0	×	×	×	×	×	×	×	×	0	×	0	×
DOLBY PRO LOGIC II MUSIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×
DOLBY PRO LOGIC II GAME		0	0	×	×	×	×	×	×	×	×	0	×	0	×
DOLBY PRO LOGIC		0	0	×	×	×	×	×	×	×	×	0	×	0	×

• Mode selectable in default status

O: Selectable mode

×: Non-selectable mode

#### NOTE :

\*1: This mode is not available when the Surround Back speaker setup is set to "None".

\*2: This mode is not available when the Surround Back speaker setup is set to "1sp" or "None".



#### **Basic Operation**

Button								Input sign	als						
					DTS				DOLBY	DIGITAL				DVD-AUDIO	
Surround Mode	Note	ANALOG	LINEAR PCM	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (3, 4, 5ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	176.4/ 192kHz
DIRECT															
DIRECT		0	0	0	0	0	0	0	0	0	0	0	×	0	0
DSP SIMULATION															
5CH/7CH STEREO	*1	0	0	0	0	0	0	0	0	0	0	0	0	×	×
MONO MOVIE		0	0	0	0	0	0	0	0	0	0	0	0	×	×
ROCK ARENA		0	0	0	0	0	0	0	0	0	0	0	0	×	×
JAZZ CLUB		0	0	0	0	0	0	0	0	0	0	0	0	×	×
VIDEO GAME		0	0	0	0	0	0	0	0	0	0	0	0	×	×
MATRIX		0	0	0	0	0	0	0	0	0	0	0	0	×	×
VIRTUAL		0	0	0	0	0	0	0	0	0	0	0	0	×	×
STEREO															
STEREO		•		0	0	0	0	0	0	0	0	0	0	•	•

●: Mode selectable in default status

O: Selectable mode

X: Non-selectable mode

#### NOTE :

\*1: If the Surround Back speaker setup is set to "None", then "5CH STEREO" is displayed.



#### Using the DENON original surround modes

The AVR-1507 is equipped with a high performance digital signal processor (DSP) that uses digital signal processing to recreate sound fields artificially. One of seven surround modes can be selected according to the program source and parameters can be further adjusted to achieve even more realistic sound fields.

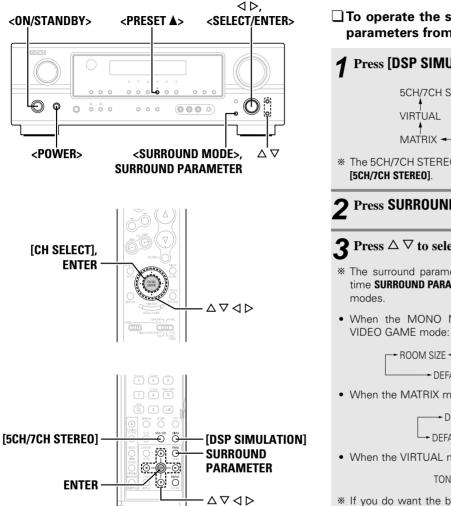
Types of surrou	nd modes and their features
5CH/7CH STEREO (NOTE 1)	This mode lets you enjoy stereo sound with seven speakers. The front L (R) channel signals are played from the surround and surround back L (R) channels and only the in-phase component of the L and R channels is played on the center channel.
MONO MOVIE (NOTE 2)	This mode recreates the atmosphere of an expansive sound field for movie sources recorded in monaural.
ROCK ARENA	This mode recreates the atmosphere of a live concert in an arena.
JAZZ CLUB	This mode recreates the atmosphere of a live concert in a club with low ceilings, hard walls and the artist just in front of you.
VIDEO GAME	This mode provides a rich sense of presence for video games.
MATRIX	This mode recreates music sources recorded in stereo with an enhanced sense of expansion.
VIRTUAL	This mode can be used to enjoy surround sound with only front speakers or when using headphones.

NOTE 1: "5CH STEREO" is displayed when "SB CH OUT" is set to "OFF".

**NOTE 2:** When playing sources recorded in monaural, the sound will be one-sided if signals are only input to one channel (left or right), so input signals to both channels. If you have a source component with only one audio output (monophonic camcorder, etc.) obtain a "Y" adapter cable to split the mono output to two outputs, and connect to the L and R inputs.

• Depending on the program source being played, the effect may not be very noticeable. In this case, try other surround modes, without worrying about their names, to create a sound field suited to your tastes.





About the button names in this explanation

- : Buttons on the main unit < >
- : Buttons on the remote control unit [ 1



Buttons on the main unit and remote control unit

#### Selecting the DSP surround simulation

To operate the surround mode and the surround parameters from the remote control unit

# Press [DSP SIMULATION].



\* The 5CH/7CH STEREO mode can be selected directly by pressing

# Press SURROUND PARAMETER.

# **?** Press $\triangle \nabla$ to select the item, then press $\triangleleft \triangleright$ to set.

- \* The surround parameter switches in the following order each time **SURROUND PARAMETER** is pressed for the different surround
- When the MONO MOVIE, ROCK ARENA, JAZZ CLUB and VIDEO GAME mode:

→ ROOM SIZE → EFFECT LEVEL → TONE DEFEAT -

DEFAULT --- SURROUND BACK -

• When the MATRIX mode:

- DELAY -- TONE DEFEAT -DEFAULT --- SURROUND BACK -

When the VIRTUAL mode:

TONE DEFEAT - DEFAULT

\* If you do want the bass and treble to be adjusted, turn off the tone defeat mode.

#### SB CH OUT

- ON:
- Surround back channel played. • OFF:
- Surround back channel not played.

#### **ROOM SIZE:**

Adjust the imaginary size of the recreated sound field space. (Does not express size of room in which played.) There are five parameters: "small", "med.s", "medium", "med.l" and "large".

#### EFFECT LEVEL:

Adjust the strength of the surround effect.

**DELAY TIME:** (MATRIX mode only) Adjust the delay time between "0 ms" and "110 ms".

# ✓ Press ENTER or SURROUND PARAMETER.

#### Operating the surround mode and the surround parameters from the main unit's panel

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

DIRECT --- STEREO --- DOLBY PRO LOGIC IIx -

5CH/7CH STEREO - DTS NEO:6 -

- MONO MOVIE ++ ROCK ARENA ++ JAZZ CLUB +
- VIRTUAL SURROUND -- MATRIX -- VIDEO GAME --
- \* To select the surround mode while adjusting the surround parameters, tone defeat or tone control, press <SURROUND MODE>, then operate the selector.

Perform steps 2 to 4 under "Selecting the DSP surround simulation".



#### **Basic Operation**

#### Setting the tone control

Adjust the bass and treble to suit your tastes.

## Adjusting the tone

# **1** Press SURROUND PARAMETER.

**2** Press  $\triangle \bigtriangledown$  to select "TONE DEF. ON".

\* In the direct mode, "TONE" cannot be selected.

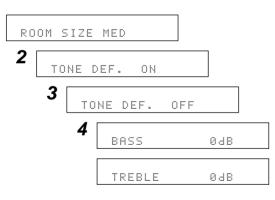
**3** Press  $\triangleright$  to select "OFF".

1

**4** Press  $\triangle \nabla$  to select "Bass" or "Treble", then press  $\triangleleft \triangleright$  to set the level.

 $\ast$  Can be adjusted within the range of -10 dB to +10 dB.

# **5** Press ENTER or SURROUND PARAMETER.



#### $\hfill \Box$ When you do not want to adjust the tone

Set "Tone Defeat" to "ON" at step 3 in "Adjusting the tone".

Adjusting the speaker volume

# **1** Press [CH SELECT].

# **2** Press [CH SELECT] to select the speaker.

\* The settable speaker switches each time this button is pressed.

# **3** Press $[\triangleleft \triangleright]$ to adjust the volume.

\* The SW channel level can be turned off by decreasing it one step from -12 dB.

 $\mathsf{OFF} \leftrightarrow -12 \ \mathsf{dB} \leftrightarrow +12 \ \mathsf{dB}$ 

#### Listening to the radio

Check that the remote control unit is set to "AUDIO".

#### Auto preset memory

This unit is equipped with a function for automatically searching for FM broadcast stations and storing them in the preset memory.

Switch off the unit using **<POWER>**.

#### Hold <PRESET ▲> and press <POWER>.

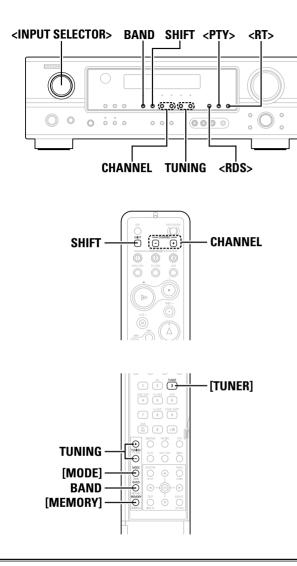
- The unit automatically begins searching for FM broadcast stations.
- When the first FM broadcast station is found, that station is stored in the preset memory at channel A1.
   Subsequent stations are automatically stored in order at preset channels A1 to A8, B1 to B8, C1 to C8, D1 to D8, E1 to E8, F1 to F8 and G1 to G8 for a maximum of 56 stations.
- \* Channel A1 is tuned in after the auto preset memory operation is completed.

# **A**

- If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation.
- To interrupt this function, press **<ON/STANDBY>**.

#### 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								



#### About the button names in this explanation

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

Button name only :

Buttons on the main unit and remote control unit

	Basic Operation
Auto tuning	Preset memory
<b>1</b> Use < <b>INPUT SELECTOR</b> > to select "TUNER" or press [TUNER].	<b>1</b> Use the "Auto tuning" or "Manual tuning" operation to tune in the station to be preset in the memory.
<b>2</b> Press <b>BAND</b> to select "AM" or "FM".	<b>2</b> Press [MEMORY].
<b>Press [MODE] to set the auto tuning mode.</b> • The "AUTO" indicator lights.	<b>3</b> Press SHIFT to select the desired memory block (A to $G$ ).
<ul> <li>Press TUNING.</li> <li>Automatic searching begins.</li> </ul>	<b>4</b> Press <b>CHANNEL</b> to select the desired preset channel (1 to 8).
If tuning does not stop at the desired station, use to the "Manual tuning" operation.	<ul> <li>5 Press [MEMORY] again.</li> <li>• Store the station in the preset memory.</li> </ul>
Manual tuning <b>1</b> Use <input selector=""/> to select "TUNER" or press [TUNER].	<ul> <li>To preset other channels, repeat steps 2 to 5. A total of 56 broadcast stations can be preset — 8 stations (channels 1 to 8) in each of blocks A to G.</li> <li>The memory block can also be selected by pressing SHIFT.</li> </ul>
<b>2</b> Press <b>BAND</b> to select "AM" or "FM".	Recalling preset stations
<b>3</b> Press [MODE] to set the manual tuning mode.	<b>1</b> Press <b>SHIFT</b> to select the memory block.
* Check that the display's "AUTO" indicator turns off.	<b>7</b> Press CHANNEL to select the desired preset channel.
Press TUNING.	
* The frequency changes continuously when the button is held in.	

• When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off.



#### Basic Operation

#### RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

The following three types of RDS information can be received with this unit:

#### Program Type (PTY)

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

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

#### 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)

 $\operatorname{RT}$  allows RDS stations to send text messages that appear on the display.

#### NOTE:

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

#### **RDS** search

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

**1** Use <**INPUT SELECTOR**> to select "TUNER" or press [TUNER].

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

# **3** 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.

#### **1** To continue searching, repeat step 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)".

Use <INPUT SELECTOR> to select "TUNER" or press [TUNER].

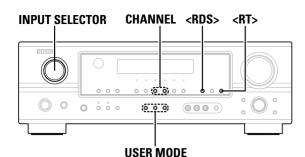
**2** Press <**RDS**> until "PTY SEARCH" appears on the display.

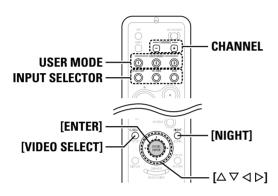
- **3** Watching the display, press **PTY**> to call out the desired program type.
- Press CHANNEL.
  - PTY search begins automatically.
- \* If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
- \* The station name is displayed on the display after searching stops.

# **5** To continue searching, repeat step 4.

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







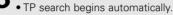
#### **TP** search

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

**1** Use <**INPUT SELECTOR**> to select "TUNER" or press [TUNER].

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

# **3** Press CHANNEL.



- \* 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.

#### **1** To continue searching, repeat step 3.

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

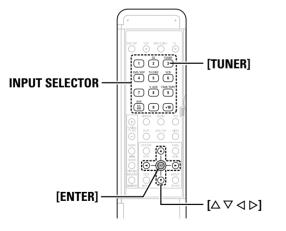
#### **RT (Radio Text)**

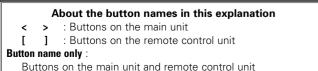
"RT" appears on the display when radio text data is received.

Use <INPUT SELECTOR> to select "TUNER" or press [TUNER].

# **2** Press <**RT**>.

- \* While receiving an RDS broadcast station, the text data broadcast from the station is displayed.
- \* To turn the display off, press **<RT>** again.
- \* If no text data is being broadcast, "NO TEXT DATA" is displayed.





32 ENGLISH

# **Advanced Operation**

## Night mode

The night mode can be set when playing Dolby Digital sources. The dialogues are easier to hear at night and when listening with the volume low.

# Press [NIGHT].



- Canceling night mode: Press **[NIGHT]** again.
- When the night mode is set to "ON", the "D.COMP" surround parameter can not be selected.

### User mode function

The AVR-1507 is equipped with a function for storing the selected input source, the auto surround mode and input mode in the memory and selecting these settings when you want to use them.

### Storing the settings in the memory

The following are stored in the memory:

- **①** Currently set input source
- **(2)** Currently set surround mode
- **③** Currently set input mode

**Press USER MODE** until "Memory" is displayed.

### Calling the settings out

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

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

Press [VIDEO SELECT] until the desired image appears on the monitor.

• To cancel, press [VIDEO SELECT] to select "SOURCE".

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

### Personal memory plus function

The surround mode last selected and the input mode setting are stored individually for the different input sources.

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

## Playing the iPod®

The music recorded on the iPod can be played when using a Control Dock for iPod (ASD-1R, sold separately). The iPod can be controlled using the buttons on the main unit and the remote control unit.



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

- With the iPod, non-copyrighted contents and contents that may be legally reproduced or played may be reproduced and played by individuals for their personal use. Violating copyrights is prohibited by law.
  - Connect the AVR-1507 and iPod using the Control Dock for iPod (ASD-1R) ( page 17).
- Assign the input terminal at "Setting the iPod Assignment" ((27) page 38).
- **3** Use INPUT SELECTOR to select the function assigned in step 2.
  - Display "Remote iPod" on the main unit's display.



\* If the screens above are not displayed, the iPod may not be properly connected. Check the connections and settings.

Operate using  $[\triangle \bigtriangledown \triangleleft \triangleright]$  and [ENTER] while watching the iPod's screen.

# **A**

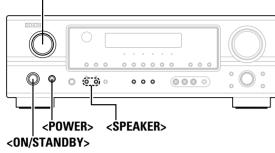
• The optional standard Control Dock for iPod is DENON ASD-1R sold separately.

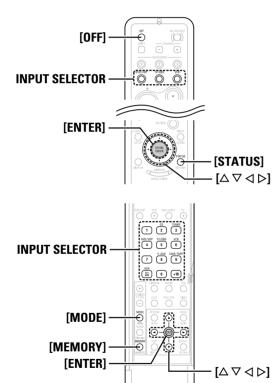
### NOTE:

- DENON will accept no responsibility whatsoever for loss or damage of data on an iPod occurring when the iPod is used connected to the AVR-1507.
- Some of the functions may not operate, depending on the type of iPod and the software version.

#### **Advanced Operation**

### INPUT SELECTOR





#### About the button names in this explanation

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

#### Button name only :

Buttons on the main unit and remote control unit

### Listening to music in the Browse mode

**1** Press  $[\triangle \bigtriangledown]$  to select the music file, then press [ENTER] or  $[\triangleright]$ .

\* Press [4] to return to the music menu screen.

### **Press [ENTER] or [D].** • Playback starts.

#### Pause:

Press **[ENTER]** during playback. Press again to resume.

#### Manual search:

Press and hold in  $[\Delta \nabla]$  during playback.

- $\Delta$ : Fast reverse
- ∇: Fast forward

#### Track search:

Press  $[\Delta \nabla]$  during playback.

- Δ: Move to beginning of previous track
- $\bullet \nabla$ : Move to beginning of next track

#### Stop:

Press [ENTER] for at least 2 seconds during playback.

### Repeat play:

- Press [MODE].
- The mode switches as follows each time [MODE] is pressed.
- RPT One: Single track repeat
- RPT All: All track repeat

#### Shuffle play:

#### Press [MEMORY].

- The mode switches as follows each time [MEMORY] is pressed.
- SFL Songs: Single track shuffle
- SFL Albums: Album shuffle

The mode switches between the Remote mode and the Browse mode if [MODE] is pressed for at least 2 seconds.
 In the Remote mode, only [△ ▽ ⊲ ▷] and [ENTER] can be used.

# 

• When **[STATUS]** is pressed during playback, the front panel display switches between the title name, artist name and album name.

- Depending on the iPod's software version, it may not be possible to operate the iPod from the AVR-1507. Use the latest version of the software. Information on the latest version of the software can be obtained on the Apple Computer website.
- With the AVR-1507 it is possible to display folder names and file names on the screen like titles. The AVR-1507 can display up to 64 characters, consisting of numbers, capital letters and small letters. A "?" mark is displayed in place of non-compatible characters.



Advanced Operation

#### **Advanced Operation**

# Viewing still pictures and videos (only for iPods equipped with the slideshow / video function)

Use this procedure to view photo and video data stored on the iPod on a monitor.

# **Press** [MODE] for at least 2 seconds to switch from the Browse mode to the Remote mode.

• "Remote iPod" is displayed on the AVR-1507's display.

# **2** Watching the iPod's screen, press $[\triangle \bigtriangledown]$ to select "Photos" or "Video", then press [ENTER] or $[\triangleright]$ .

• The iPod's photo and video data are displayed on the monitor.

# ø

• To output photo or video data recorded on the iPod to the monitor, the iPod's "TV Out" setting (under "Video Settings") must be set to "ON".

For details, refer to the iPod's operating instructions.

### **Disconnecting the iPod**

# Press **<ON/STANDBY>** or **[OFF]** and set the AVR-1507's power to the standby mode.

\* The iPod can be disconnected after switching to a function other than the one to which the iPod input is assigned.

Recording the program source (recording the source currently being monitored)

Select the input source to be played.

**?** Select the input mode and play (surround) mode.

# **3** Start recording on the tape or video deck.

\* For instructions, refer to the component's operating instructions.

# 

- The AUDIO IN's signal selected with **INPUT SELECTOR** are output to the CD-R/TAPE and VCR AUDIO OUT terminals.
- Digital signals are not output to the audio output terminals.

### Simultaneous recording

The signals of the source selected with **INPUT SELECTOR** are output simultaneously to the CD-R/TAPE and VCR REC OUT terminals. If a total of two tape and/or video decks are connected and set to the recording mode, the same source can be recorded simultaneously on every decks.

### About the memory functions

### □ Last function memory

The various settings set when the AVR-1507's power is switched to standby are stored in the memory. When the power is turned back on, the settings made when the power was switched to standby are recalled.

### Backup memory

The various settings are stored in the memory for about 1 week, even when the power is turned off or the power cord is unplugged.

### Initialization of the microprocessor

If the indication on the display is not normal or if the operation of the unit is not correct, then the microprocessor should be reset by the following procedure.

Switch off the unit using **<POWER>**.

- **2** Keep both **<SPEAKER>** (A and B) depressed and turn on the unit by pressing **<POWER>**.
- **3** Check that the entire display is flashing at 1-second intervals and release the buttons.
  - The microprocessor will be initialized.

# **A**

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

# System setup items and default values

### 1. Speaker Setup

S	P	e	a	k	9	ŀ.	S	e	t	U	F

	Item No.		Default settings						Page			
- <b>-</b> →	1 ~ 6	Speaker Configuration mode	Automatically set the output component and properties for the various channels according to the combination of speakers to be	Fro	ont Sp.	Center	Sp. S	ubwoofer	Surround	l Sp. Su	irround Back Sp.	41
i i		actually used for surround playback.	L	arge	Sma	II	Yes	Smal	1 5	Small / 2sp		
⊨	7	Subwoofer Mode Setup	Select the method of playback of the subwoofer for playing the low bass signals.	LFE (Normal)				42				
i ⊨►	8 ~ 15 Distance mode				ront & R	Cent	er S	Subwoofer	Surro L &		Surround Back	42
- ! - I			to the listening position.	3	.6 m	3.6 r	m	3.6 m	3.0	m	3.0 m	
	16	Crossover Frequency mode	Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer.	80 Hz				42				
i L	17	Test Tone mode	Set the volume of the various speakers so that the sound output from the speakers and the subwoofer seems to have the same		R	Center		Surround R	Surround Back L	Surround Back R	Subwoofer	43
			volume level.	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	

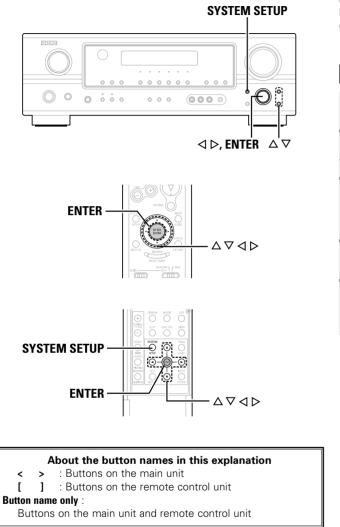
## 2. Input Setup

nput Setup	Item No.		Items			Default	settings	Page		
Input Setur	1 ~ 4	Digital In	This assigns the different input sources for	Digital Inputs	COAX	1 COAX 2	OPT 1	OPT 2	- 38	
INFOC SECOF	1~4	Assignment mode	the digital input terminals.	Input source	CD	AUX	DVD	TV		
	5	iPod Assignment mode	It is possible to assign the Control Dock for iPod's (ASD-1R, sold separately) audio and/or video signals to any input terminals on the AVR-1507 and play them.			38				
<b> →</b>	6	Audio Delay mode	Adjust the time delay between the video and	audio signals.		0 ms				
►	7	EXT. IN Subwoofer Level mode	Sets the playback level of the analog signal th EXT. IN subwoofer terminal.	Sets the playback level of the analog signal that was input to the EXT. IN subwoofer terminal.		SW Level = +15 dB				
					A1 ~ A8					
						B1 ~ B8 522/603/999/1404/1611 kHz, 90.1/90.1 /90.1 MHz				
i					C1 ~ C8	~ C8 90.1 MHz				
<b>└</b> ►	8	Auto Preset Memory mode	Up to 56 FM stations can be preset automatic	ally.	D1 ~ D8	90.1 MHz			39	
		······, ·····				1 ~ E8 90.1 MHz				
						90.1 MHz				
					G1 ~ G8	90.1 MHz				

3. O	ption	Setup
------	-------	-------

Option Setup	Item No.		Items	Default settings		
Option Setup	1~3	Volume Control mode	This sets the volume level of output.	Vol.Limit = OFF P. On Lev. = LAST Mute Lev. = FULL	40	
	4	Auto Surround mode	Set whether or not to store the surround mode last played for the input signal.	Auto Surround Mode = 0N	40	





Use System Setup to customize a variety of settings to suit your listening environment.

For the contents of a system menu and the initial setting of this unit (1277 page 36).

# Navigating through the System Setup items

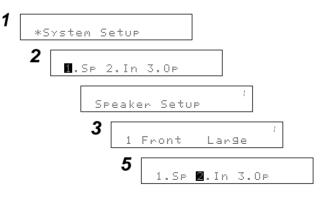
## **1** Press **SYSTEM SETUP**, then press **ENTER**.

- **2** Press  $\triangleleft \triangleright$  to select the item you want to set, then press ENTER.
- 3 To change the setting: Press △ ▽ to select the item you want to change, then press ⊲ ▷ to change the setting.

**A** Press **ENTER** or  $\nabla$  to confirm the new settings.

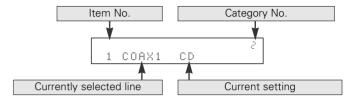
**5** Press SYSTEM SETUP to move the next category.

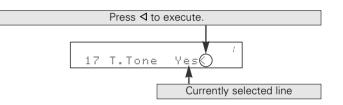
\* To cancel the system setup mode, press **SYSTEM SETUP** again.



### About the front display

The AVR-1507 is equipped with an alpha numeric front panel display that can also be used to check and adjust settings. Some representative front display examples are shown below.



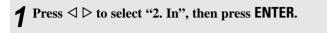




### Input Setup

### Setting the Digital In Assignment

This assigns the different input sources for the digital input terminals.

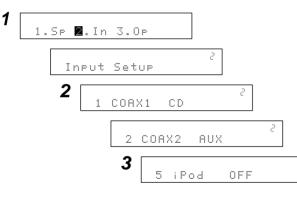


**2** Press  $\triangle \bigtriangledown$  to select the input terminals, then press  $\triangleleft \triangleright$  to set.

### CD, AUX, DVD, TV, VCR, V.AUX, CD-R:

Assign the different source according to the devices connected to the AVR-1507's input terminals.

**3** Press ENTER or  $\nabla$  to enter the setting and switch to the iPod Assignment setting.



- Digital input terminal assignment not possible for "TUNER".
- It is not possible to make the Digital In Assignment settings for the function assigned at iPod Assignment mode.

### Setting the iPod Assignment

It is possible to assign the Control Dock for iPod's (ASD-1R, sold separately) audio and video signals to any input terminals on the AVR-1507 and play them.

# **1** Press $\triangleleft \triangleright$ to set.

### CD, AUX, CD-R:

When using a Control Dock for iPod, it is possible to connect with the audio input terminal of the assigned function.

#### DVD, TV, VCR, V.AUX:

When using a Control Dock for iPod, it is possible to connect with the audio and video input terminals of the assigned function.

#### OFF:

This is the factory default setting.

# **2** Press ENTER or $\nabla$ to enter the setting and switch to the Audio Delay setting.



### **Setting the Audio Delay**

Adjust the time delay between the video and audio signals.

**1** Press  $\triangleleft \triangleright$  to set.

### 0 ms ~ 200 ms:

Adjust the time delay.

\* With a movie source, for example, adjust so that the movement of the actors' lips is synchronized with the sound.

# **2** Press ENTER or $\nabla$ to enter the setting and switch to the EXT. IN Subwoofer Level setting.



# 6

- By default, this menu is not displayed when no digital signals are being input.
- The audio delay setting does not apply when playing in the EXT. IN mode or in the analog input direct mode or stereo mode (Front speaker setting "Large").



Advanced Setup – Part 1

### Setting the EXT. IN Subwoofer Level

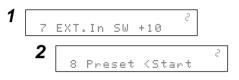
Sets the playback level of the analog signal that was input to the EXT. IN subwoofer terminal.

## Press $\triangleleft \triangleright$ to set.

#### +15 dB, +10 dB, +5 dB, 0 dB:

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

# **2** Press ENTER or $\nabla$ to enter the setting and switch to the Auto Preset Memory setting.



### Setting the Auto Preset Memory

Up to 56 FM stations can be preset automatically (127 page 29).

## **1** Press $\triangleleft$ to start.

- "CH" blinks on the display and searching begins.
- "Completed" appears once searching is completed.

# **2** Press ENTER to enter the setting and switch to the Option Setup.





#### Advanced Setup – Part 1

#### **Option Setup** 1 1.Sp 2.In **8**.Op Setting the Volume Control Option Setup This sets the volume level of output. 2 Press $\triangleleft \triangleright$ to select "3. Op", then press ENTER. 1 Limit -10dB **Press** $\triangle \nabla$ to select the item, then press $\triangleleft \triangleright$ to set. 2 P.On LAST Volume Limit: FULL 3 Mute Set the volume's upper limit. 3 • 0 dB, -10 dB, -20 dB: 4 AutoSurr. ON The volume cannot be increased above the selected levels. • OFF: If you do not want to set a volume limit, select "OFF". In this case, the volume can be set to the AVR-1507's maximum volume (output) level of +18 dB, which is extremely loud. Power On Volume Level: • LAST: The volume set when the AVR-1507 was last used is stored in the memory and set when the power is turned on. • - - - (Mute): The volume is always muted when the power is turned on. • -80 dB ~ +18 dB: Set the volume level when the power is turned on. You can adjust the volume level within the range of -80 to +18 dB. Muting Level: Set the level of volume attenuation in the mute mode. • FULL: The volume is fully muted. • -40 dB, -20 dB; The volume is lowered 40 dB or 20 dB from the current level. **3** Press ENTER or $\nabla$ to enter the setting and switch to the Auto Surround Mode setting.

### Setting the Auto Surround Mode

Set whether or not to store the surround mode last played for the input signal.

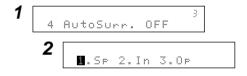
The surround mode used at last for the three types of input signals shown below is stored in the memory, and the signal is automatically played with that surround mode the next time it is input.

- (1) Analog and PCM 2-channel signals (STEREO)
- 2 channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY PLIIx Cinema)
- (3) Multi-channel signals of Dolby Digital, DTS or other multichannel format (DOLBY/DTS SURROUND)
- \* Default settings are indicated in ( ).

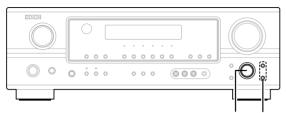
## Press $\triangleleft \triangleright$ to set.

Ę

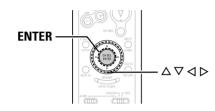
### **?** Press ENTER to enter the setting and switch to the Speaker Setup.

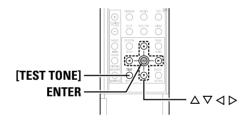






⊲⊳, ENTER ⊿⊽





### About the button names in this explanation

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

#### Button name only :

Buttons on the main unit and remote control unit

# **Advanced Setup – Part 2**

### Speaker Setup

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

### **Setting the Speaker Configuration**

Automatically set the output component and properties for the various channels according to the combination of speakers to be actually used for surround playback.

# **1** Press $\triangleleft \triangleright$ to select "1. Sp", then press ENTER.

**?** Press  $\triangle \nabla$  to select the speaker, then press  $\triangleleft \triangleright$  to set.

### 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.

### 2sp / 1sp:

Select the number of surround back speakers.

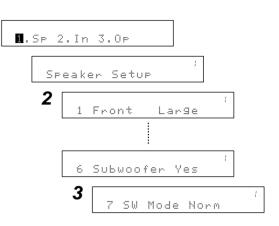
### Yes / No:

Select "Yes" when a subwoofer is connected, "No" when no subwoofer is connected.

- \* A subwoofer with sufficient low frequency playback capability can better handle deep bass than most main and surround speakers, and the system's overall performance will be greatly enhanced when "Small" is set for the main (front) and surround speakers.
- When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes", and when "Subwoofer" is set to "No", "Front" is automatically set to "Large".

**3** Press ENTER or  $\nabla$  to enter the setting and switch to the Subwoofer Mode Setup setting.





1

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

### Setting the Subwoofer Mode Setup

Select the method of playback of the subwoofer for playing the low bass signals.

# **Press** $\triangleleft \triangleright$ to set.

### LFE (Normal):

For any channel(s) that are set to "Large", low frequencies in that channel's corresponding source are directed to that loudspeaker only. The low frequencies played from the subwoofer are only the LFE signals and the low frequencies of channels set to "Small".

### LFE+Main:

Low frequencies from speaker channels that have been set to "Large" are reproduced from those speakers as well as from the subwoofer(s).

**2** Press ENTER or  $\nabla$  to enter the setting and switch to the Distance setting.



# Þ

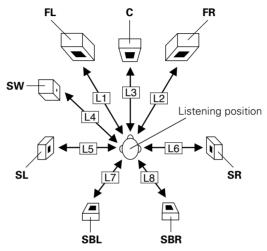
- The subwoofer mode setting is only valid when and "Yes" is set for the subwoofer in the "Setting the Speaker Configuration".
- Select the "LFE+Main" mode if you want low frequency signals to always be played from the subwoofer channel.
- Select the mode achieving a voluminous bass sound when playing music or movie sources.

### **Setting the Distance**

This parameter is for optimizing the timing with which the audio signals are produced from the speakers and subwoofer according to the listening position.

### **Preparations:**

Measure the distances between the listening position and the speakers (L1 to L8 on the diagram at the below).



## Press $\triangleleft \triangleright$ to set.

**2** Press ENTER or  $\nabla$  to enter the setting and switch to the Crossover Frequency setting.





- The distance changes in units of 0.1 meters each time the button is pressed. Select the value closest to the measured distance.
- Please note that the difference of distance for every speaker should be 6.0 m or less.

### **Setting the Crossover Frequency**

Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer.

For speakers that are set to "Small", frequencies under the crossover frequency are cut before the signal is output, and the low frequency component that was cut is output from the subwoofer or the speakers that are set to "Large".

# Press $\triangleleft \triangleright$ to set.

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

Set as desired according to your speakers' bass playback ability.

# **2** Press ENTER or $\nabla$ to enter the setting and switch to the Test Tone setting.



- The crossover frequency mode is valid only when subwoofer is set to "ON", and when one or more speakers are set to "Small", as described in section "Setting the Speaker Configuration" (127) page 41).
- Set to "80 Hz" when using regular speakers. When using small speakers, we recommend setting to a higher frequency.





### Setting the Test Tone

Set the volume of the various speakers so that the sound output from the speakers and the subwoofer seems to have the same volume level.

# **Press** *⊲* **to select "Yes".**

# **7** Press $\triangleleft \triangleright$ to set, then press $\bigtriangledown$ .

#### Auto:

Adjust the level while listening to the test tones produced automatically from each speaker.

Test tones are automatically emitted from each speaker.

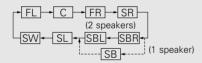
### Manual:

Adjust with the speaker from which the test tone is output switched manually.

# **3** When "Auto" mode is selected:

### Press $\triangleleft \triangleright$ to adjust the volume.

-1 • Test tones are output automatically, in the order shown below.



\* The volume can be adjusted within the range -12 dB to +12 dB.

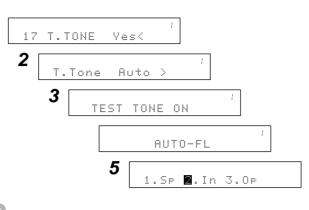
# **3** When "Manual" mode is selected: **B** $\nabla X$ to select the spectrum t

Press  $\triangle \nabla$  to select the speaker, then press  $\triangleleft \triangleright$  to

-2 adjust the volume.

**A** Press **ENTER** to finish the Test Tone setting.

**5** Press **ENTER** the setting and switch to the Input Setup.



• To adjust the channel level separately for the different play modes after setting the channel level, perform the operation on page 29.

### Adjusting the test tone using the remote control unit

Adjustment of the test tones using the remote control unit is only possible in the "Auto" mode and only valid in the STANDARD (Dolby/ DTS Surround) mode. The adjusted levels are automatically stored for the different surround modes.

# Press [TEST TONE].

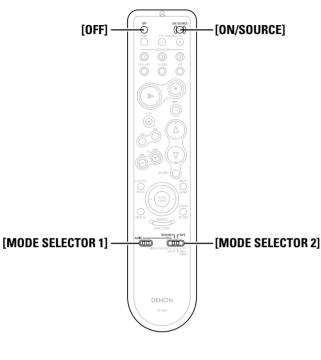
1

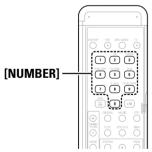
• Test tones are output from the different speakers.

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

3 Press [TEST TONE].







# Operating the remote control unit

### **Operating DENON** audio components

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

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

# **3** Operate the audio component.

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

### Setting the preset memory function

- DENON and other makes of components can be operated by setting the preset memory.
- This remote control unit can be used to operate components of other manufacturers without using the learning function by registering the manufacturer of the component as shown in the list of preset codes (ICP End of this manual).
- Operation is not possible for some models.

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

- Set to the AUDIO side for the CD, TAPE or CD-R/MD position, and to the VIDEO side for the DVD/VDP, DBS/CABLE, VCR or TV position.
- **2** Set [MODE SELECTOR 2] to the component to be registered.

**3** Press [ON/SOURCE] and [OFF] at the same time. • The indicator starts flashing.

- **Referring to the included list of preset codes, press** [NUMBER] to input the preset code (a 3-digit number) for the manufacturer of the component whose signals you want to store in the memory.
- **5** To store the codes of another component in the memory, repeat steps 1 to 4.

- The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit's transmitting window while setting the preset memory.
- Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed in the list of preset codes.
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and verify correct operation.
- The preset memory can be set for one component only among the following: CD-R/MD, DVD/VDP and DBS/CABLE.



## ENGLISH

#### Operating the remote control unit

#### Operating the remote control unit

# Operating a component stored in the preset memory

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

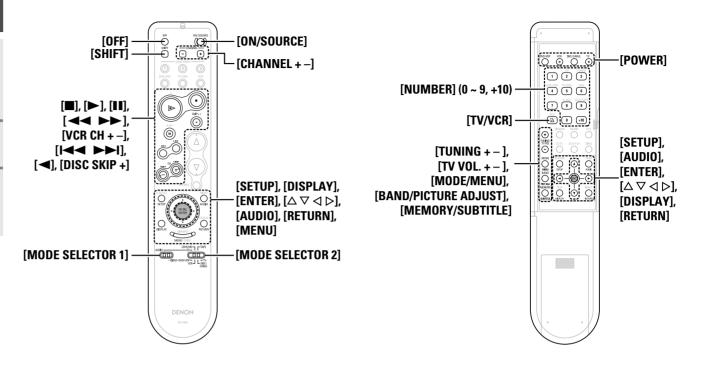
\* Set to the AUDIO side for the CD, TAPE or CD-R/MD position, and to the VIDEO side for the DVD/VDP, DBS/CABLE, VCR or TV position.

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

# **3** Operate the component.

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

\* Some models cannot be operated with this remote control unit.



# ENGLISH

### Operating the remote control unit

### □ Functions of buttons for the different devices

## [ Front ]

Device operated	CD player	CD recorder	MD recorder	Tape deck	DVD player	Video disc player	Video deck	Satellite tuner	Cable TV	TV (Monitor)
MODE SELECTOR 1		AU	DIO				VIE	DEO		
MODE SELECTOR 2	CD	CD-R	/ MD	ТАРЕ	DVD	/ VDP	VCR	DBS /	CABLE	тν
OFF	-	_	_	-	Power off	-	_	-	_	-
ON / SOURCE	_	_	_	-	Power on	Power on /Standby				
SHIFT	Preset channel selection	Preset channel selection	Preset channel selection	Preset channel selection	_	_	_	_	_	_
CHANNEL –	Preset channel selection	Preset channel selection	Preset channel selection	Preset channel selection	Channels –					
CHANNEL +	Preset channel selection	Preset channel selection	Preset channel selection	Preset channel selection	Channels +					
►	Play	Play	Play	Forward play	Play	Play	Play			
	Stop	Stop	Stop	Stop	Stop	Stop	Stop			
II, A/B	Pause	Pause	Pause	A/B switching	Pause	Pause	Pause		Punch through	
◀, DISC SKIP +	Disc skip +	_	_	Reverse play	Disc skip	-	_			
	Search (reverse)	Search (reverse)	Search (reverse)	Rewind	Search (reverse)	Search (reverse)	Search (reverse)	Punch through		Punch through
••	Search (forward)	Search (forward)	Search (forward)	Fast forward	Search (forward)	Search (forward)	Search (forward)			
I◀, VCR CH –	Skip (reverse)	Skip (reverse)	Skip (reverse)	_	Skip (reverse)	Skip (reverse)	Channels —			
►►I, VCR CH +	Skip (forward)	Skip (forward)	Skip (forward)	_	Skip (forward)	Skip (forward)	Channels +			
SETUP	-	_	_	_	Setup	_	_	_	-	_
	-	_	_	_	Cursor operation	-	_	Cursor operation	Cursor operation	Cursor operation
AUDIO	-	_	_	_	Audio	-	_	_	-	_
ENTER	-	_	-	_	Enter	_	_	Enter	Enter	Enter
DISPLAY	-	_	-	_	Display selection	-	_	Display selection	Display selection	Display selection
RETURN	-	_	_	_	Return	_	_	Return	Return	Return
MENU	-	_	-	-	Menu	-	_	Menu	Menu	Menu



Operating the remote control unit

### Operating the remote control unit

### [Rear]

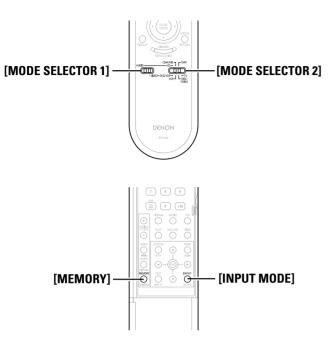
Device operated	CD player	CD recorder	MD recorder	Tape deck	DVD player	Video disc player	Video deck	Satellite tuner	Cable TV	TV (Monitor)
MODE SELECTOR 1		AU	DIO		VIDEO					
MODE SELECTOR 2	CD	CD-R	/ MD	ТАРЕ	DVD	/ VDP	VCR	DBS /	CABLE	т
POWER	-	_	_	-	Power on / off	Power on / off	Power on / off	Power on / off	Power on / off	Power on / off
NUMBER (0 ~ 9, +10)	_	_	_	_	Number input / Track selection	Number input / Track selection	_	Channels	Channels	Channels
TV/ VCR	_	_	_	-	Input mode selection	Input mode selection	Input mode selection	Input mode selection	Input mode selection	Input mode selection
TUNING + / TV VOL +	Tuning	Tuning	Tuning	Tuning	Volume control +	Volume control +	Volume control +	Volume control +	Volume control +	Volume control +
TUNING – / TV VOL –	Tuning	Tuning	Tuning	Tuning	Volume control –	Volume control –	Volume control –	Volume control –	Volume control –	Volume control –
MODE / MENU	Auto/Manual switching	Auto/Manual switching	Auto/Manual switching	Auto/Manual switching	Menu	_	_	Menu	Menu	Menu
SETUP	_	_	_	-	Setup	_	_	_	_	-
$\forall a b \forall a b$	_	_	_	-	Cursor operation	_	_	Cursor operation	Cursor operation	Cursor operation
AUDIO	_	_	_	-	Audio	_	_	_	_	_
BAND / Picture Adjust	AM/FM switching	AM/FM switching	AM/FM switching	AM/FM switching	Picture adjust	_	_	_	_	_
ENTER	_	_	_	_	Enter	_	_	Enter	Enter	Enter
MEMORY / SUBTITLE	Preset memory	Preset memory	Preset memory	Preset memory	Subtitle	_	-	_	_	_
DISPLAY	_	_	_	-	Display selection	_	-	Display selection	Display selection	Display selection
RETURN	_	_	_	-	Return	_	_	Return	Return	Return
Default setting (Preset code)	DENON (111)	DENON (111)	_	DENON (111)	DENON (111)	_	HITACHI (108)	_	ABC (007)	HITACHI (134)
Special remarks	1	(	D	1)	<u>(</u> ),	2	1)	1),	3	1, 3

Special remarks: ① It is only possible to set the preset memory for one device per mode. When a new code is preset, the previous code is automatically deleted.

2 Note that the function names of the DVD buttons on the remote control unit may differ for some brands. Check beforehand.
 3 The CD, CD-R/MD, TAPE, VCR or DVD/VDP buttons can be assigned to a TV or satellite tuner (or cable TV) (127 page 48).



#### Operating the remote control unit



## Setting the punch through function

"Punch Through" is a function allowing you to operate ►, ■, ◄⊲, ►►, I◀◀ and ►►I on CD, TAPE, CD-R/MD, DVD/VDP or VCR components when in the DBS/CABLE or TV mode. By default, nothing is set.

**1** Set [MODE SELECTOR 1] to "VIDEO".

**2** Set [MODE SELECTOR 2] to the component to be registered (DBS/ CABLE or TV).

**3** Press [MEMORY] and [INPUT MODE] at the same time. • The indicator starts flashing.

<b>4</b> Input the number of the component you want	to set.
---	---------

	No.
CD	1
TAPE	2
CD-R/MD	3
DVD/VDP	4
VCR	5
No setting	0

# **Additional Information**

### About the speakers

### Surround back speakers

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

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

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

Change of positioning and acoustic image

with 6.1-channel systems

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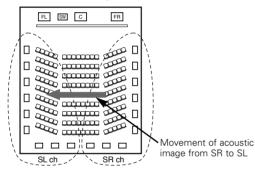
 $\overline{}$ 

SB ch

FL SW C

SLc

П



FR

SB ch

SL

Movement of acoustic

image from SR to SB to

10

60 Π

à

## **Number of surround back speakers**

We recommend using two speakers.

When using dipolar speakers in particular, be sure to use two 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.

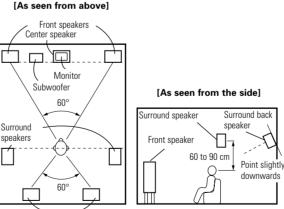
### Examples of speaker layouts

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

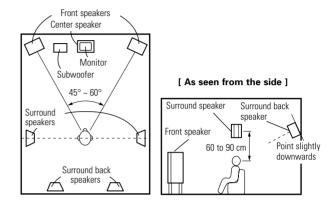
Recommended when your surround speakers are single or 2-way speakers.



Surround back speakers

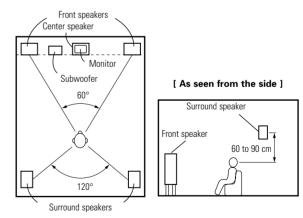
### (2) When playing movies and musics

#### [As seen from above]



### [2] When not using surround back speakers

#### [ As seen from above ]



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



#### Additional Information

### Surround

The AVR-1507 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**

#### [1] Dolby Digital

Dolby Digital is the multi-channel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: three front channels ("FL", "FR" and "C"), two 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.

### [2] 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.

### [3] Dolby Pro Logic IIx

Dolby Pro Logic  $\mathbf{II}_{x}$  is a further improved version of the Dolby Pro Logic  $\mathbf{II}$  matrix decoding technology.

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

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

### □ Sources recorded in Dolby Surround

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

Dolby Surround support mark: DC DOLBY SURROUND

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

### **DTS Digital Surround**

DTS Digital Surround is a digital surround format developed by Digital Theater Systems of the United States.

The number of playback channels and the playing band is the same as for Dolby Digital (5.1-channels).

The compression rate of the audio data when it was recorded on the medium is lower than for Dolby Digital, so there is more information when the data is decoded, resulting in richer, clearer sound quality.

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### DTS-ES™

DTS-ES is a new surround format developed by Digital Theater Systems.

A sound image and sense of positioning can be achieved by adding a surround back ("SB") channel to the conventional 5.1-channels.

#### DTS-ES<sup>™</sup> Discrete 6.1:

This is the latest format, in which all 6.1-channels, including the "SB" channel, are recorded independently. Since the different channels are independent, the sound can be designed with total freedom.

### DTS-ES<sup>™</sup> Matrix 6.1:

With this format, the "SB" channel is matrix-encoded and inserted into the "SL" and "SR" channels, then decoded for the "SL", "SR" and "SB" channels upon playback. This achieves a surround sound more faithful to the artist's sound design intentions than with conventional 5.1- or 6.1-channel systems.

### **DTS NEO:6 surround**

This is a matrix decoding technology for 6.1-channel surround playback of 2-channel sources.

The optimum decoding for the type of signal source to be played can be selected. There are two modes.

#### DTS NEO:6 CINEMA:

This mode is suited for playing movies. It achieves the same type of sound as in a movie theater, even with 2 channels.

#### DTS NEO:6 MUSIC:

This mode is suited for playing music. A natural sense of expansion is added to the sound field.

### DTS 96/24

DTS 96/24 is a multi-channel digital signal format developed by Digital Theater Systems.

The sampling frequency is raised to achieve 5.1-channel playback with high quality sound (sampling frequency: 96 kHz, quantization: 24 bits).

# Troubleshooting

If a problem should arise, first check the following.

- 1. Are the connections correct?
- 2. Have you operated the receiver according to the Operating Instructions?
- 3. Are the speakers and other components operating properly?

If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
Display not lit and sound not produced when POWER switch set to on.	<ul> <li>Power supply cord not plugged in securely.</li> </ul>	Check the insertion of the power supply cord plug.	17
Display lit but sound not produced.	Speaker cables not securely connected.     INPUT SELECTOR knob position is	<ul><li>Connect securely.</li><li>Switch to the proper position.</li></ul>	8 18
	<ul> <li>Not appropriate.</li> <li>Volume control set to minimum.</li> <li>MUTING is on.</li> <li>No digital signal is being input.</li> </ul>	<ul> <li>Turn volume up to suitable level.</li> <li>Switch off MUTING.</li> <li>Properly select a digital signal input source.</li> </ul>	18 19 38
Nothing is displayed on monitor.	<ul> <li>AVR-1507's video output terminals and monitor's input terminals are not properly connected.</li> <li>Monitor's input setting is wrong.</li> </ul>	<ul> <li>Check that the connections are correct.</li> <li>Set the monitor's input selector to the terminals to which video signals are connected.</li> </ul>	9, 13 ~ 17 —
No DTS sound is produced.	<ul> <li>DVD player's audio output setting is not set to bit stream.</li> <li>DVD player is not DTS-compatible.</li> <li>AVR-1507's input setting is set to analog.</li> </ul>	<ul> <li>Make the DVD player's default settings.</li> <li>Use a DTS-compatible player.</li> <li>Set to "AUTO" or "DTS".</li> </ul>	— — 18
Copying from DVD to VCR is not possible.	<ul> <li>Copying between a source such as DVD and a VCR is not usually possible, as DVDs are often encoded with copy-protection signals that prevent VCR recording.</li> </ul>	Copying is not possible.	_

Symptom	Cause	Measures	Page
No sound is produced from subwoofer.	<ul> <li>Subwoofer's power is not on.</li> <li>Subwoofer's initial setting is set to "NO".</li> </ul>	<ul><li>Turn on the power.</li><li>Set the setting to "YES".</li></ul>	41
	<ul> <li>Subwoofer's output is not connected.</li> <li>The subwoofer's channel volume level is set to "OFF".</li> </ul>	<ul> <li>Connect properly.</li> <li>Turn the subwoofer's channel volume level up.</li> </ul>	8 29
No test tones are produced.	• Surround mode is set to a mode other than STANDARD (Dolby/DTS Surround).	Set to STANDARD (Dolby/DTS Surround).	_
No sound is produced from surround speakers.	• Surround mode is set to "STEREO".	• Set to a mode other than "STEREO".	—
This unit does not operate properly when remote control unit is	<ul> <li>Batteries dead.</li> <li>Remote control unit too far from this unit.</li> </ul>	<ul><li> Replace with new batteries.</li><li> Move closer.</li></ul>	3 3
used.	Obstacle between this unit and remote control unit.		3
	<ul> <li>Different button is being pressed.</li> <li>⊕ and ⊖ ends of batteries inserted in reverse.</li> </ul>	<ul><li>Press the proper button.</li><li>Insert batteries properly.</li></ul>	3
Power has turned off and the power indicator is blinking red.	• The set's internal temperature has risen and the protection circuit has been activated.	<ul> <li>Put the AVR-1507 in a well-ventilated place.</li> <li>Turn off the power, then wait for the</li> </ul>	8
		set to fully cool off before turning the power back on.	0
	<ul> <li>The core wires of the speaker cables are touching each other or the AVR- 1507's rear panel, activating the protection circuit.</li> </ul>	Check the connections of all the speaker cables.	8
	• AVR-1507 is malfunctioning.	• Turn off the power and contact a DENON customer service center.	8
Sound is only produced from the center speaker.	You are playing a monaural source (TV, AM radio broadcast, etc.) in the STANDARD (Dolby/DTS Surround) mode.	When playing monaural sources, select a surround mode other than STANDARD (Dolby/DTS Surround) mode.	28
"DOLBY DIGITAL" is not displayed.	• DVD player's digital audio output setting is not proper.	• Check the DVD player's audio output setting. For details, see the DVD player's operating instructions.	_



# Specifications

<ul> <li>Audio section</li> <li>Power amplifier</li> </ul>		☐ Tuner section	[FM]	[AM]
Rated output:	Front (A, B):	Receiving Range:	(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10 <sup>-15</sup> W) 87.50 MHz ~ 108.00 MHz	522 kHz ~ 1611 kHz
	75 W + 75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.) 110 W + 110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	Usable Sensitivity:	1.0 μV (11.2 dBf)	18 μV
	Center:	50 dB Quieting Sensitivity:	MONO 1.6 μV (15.3 dBf) STEREO 23 μV (38.5 dBf)	
	75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	S/N (IHF-A):	MONO 77 dB	
	110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) Surround:		STEREO 72 dB	
	75 W + 75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.) 110 W + 110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	Total Harmonic Distortion (at 1 kHz):	MONO 0.15% STEREO 0.3%	
	Surround Back:	☐ General		
	75 W + 75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.) 110 W + 110 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	Power supply:	AC 230 V, 50 Hz	
Output terminals:	Front: A or B $6 \sim 16 \Omega$ /ohms	Power consumption:	410 W	
·	A + B 12 ~ 16 Ω/ohms	Maximum external dimensions:	1 W Max (Standby) 434 (W) x 147 (H) x 417 (D) mm	
Anglen	Center, Surround, Surr. Back: $6 \sim 16 \Omega$ /ohms	Mass:	11.2 kg	
<ul> <li>Analog Input sensitivity / input impedance:</li> </ul>	200 mV / 47 kΩ/kohms			
Frequency response:	10 Hz ~ 100 kHz: +1, -3 dB (DIRECT mode)	Remote control unit (RC-1049 Batteries:	B6P/AA Type (Two batteries)	
S/N:	98 dB (DIRECT mode)	External dimensions:	52 (W) x 243 (H) x 21 (D) mm	
☐ Video section		Mass:	175 g (included batteries)	
Standard video terminals		* For purpasso of improvement apositiontic	ons and design are subject to change without	nation
Input / output level and impedance:	1 Vp-p, 75 Ω/ohms	Tor purposes of improvement, specification	ons and design are subject to change without	notice.
Frequency response: • S-Video terminals	5 Hz ~ 10 MHz — +1, –3 dB			
Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms			
	C (color) signal — 0.3 (PAL) / 0.286 (NTSC) Vp-p, 75 Ω/ohms			
Frequency response:	5 Hz ~ 10 MHz — +1, -3 dB			
Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms			
••••••	Pв/Cв signal — 0.7 Vp-p, 75 Ω/ohms			
<b>F</b>	Pr/Cr signal — 0.7 Vp-p, 75 Ω/ohms			
Frequency response:	5 Hz ~ 30 MHz — +0, -3 dB			

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

DVD		ASA	042	Go Video	047, 048	Minolta	013, 023
Denon	014, <b>*[111]</b>	Asha	087	Goldstar	000, 006, 012, 062, 088	Mitsubishi	001, 003, 008, 013, 014,
Aiwa	009	Audio Dynamic	005, 085	Gradiente	094		017, 027, 029, 039, 040,
Hitachi	010	Audiovox	088	Grundig	042		041, 045, 097
JVC	006, 011	Beaumark	087	Harley Davidson	094	Motorola	081
Konka	012, 013	Broksonic	086, 093	Harman Kardon	040, 062	Montgomery Ward	001, 002, 007, 009, 049,
Magnavox	005	Calix	088	Hi-Q	091		063, 081, 115, 117
Mitsubishi	004	Candle	006, 087, 088, 089, 090	Hitachi	009, 013, 023, 026, 058,	MTC	009, 087, 094
Panasonic	014	Canon	049, 057		* <b>[108]</b> , 109, 110, 111	Multitech	007, 009, 011, 087, 090,
Philips	005, 015, 016, 017	Capehart	025, 055, 056, 071	JC Penny	004, 005, 007, 023, 028,		094
Pioneer	003, 008	Carver	015		049, 062, 085, 087, 088	NAD	038
Sanyo	018	CCE	095	Jensen	013, 026	NEC	004, 005, 006, 018, 026,
Sony	002, 019, 020	Citizen	006, 007, 087, 088, 089,	JVC	004, 005, 006, 026, 029,		029, 045, 061, 062, 085
Toshiba	001, 021, 022		090, 095		043, 044, 045, 046, 085	Nikko	088
Zenith	023	Craig	007, 087, 088, 091, 115	Kenwood	004, 005, 006, 026, 029,	Noblex	087
		Curtis Mathes	006, 049, 073, 080, 087,		033, 045, 085, 090	Optimus	081, 088
VDP			090, 092	Kodak	088	Optonica	021
Denon	028, 029, 112	Cybernex	087	Lloyd	009, 094	Panasonic	024, 049, 064, 066, 067,
Magnavox	026	Daewoo	025, 055, 059, 074, 089,	LXI	088		068, 069, 107
Mitsubishi	028		093, 095, 096	Magnavox	015, 016, 042, 049, 063,	Perdio	009
Panasonic	029, 030	Daytron	025, 055		106	Pentax	009, 013, 023, 058, 090
Philips	026	DBX	005, 085	Magnin	087	Philco	015, 016, 049
Pioneer	028, 031	Dumont	053	Marantz	004, 005, 006, 015, 042,	Philips	015, 021, 042, 049, 105
RCA	032	Dynatech	009		049, 085, 090	Pilot	088
Sony	033, 034, 035, 036	Electrohome	001, 088, 097	Marta	088	Pioneer	005, 013, 029, 036, 037,
		Electrophonic	088	MEI	049		038, 045, 085
VCR		Emerson	001, 009, 017, 027, 086,	Memorex	009, 033, 049, 053, 060,	Portland	025, 055, 090
Admiral	081		088, 089, 092, 093, 097,		081, 087, 088, 091, 094,	Proscan	063, 080
Aiko	095		100, 101, 102, 103, 104,		115	Pulsar	060
Aiwa	009		117	Metz	123, 124, 125, 126, 127,	Quartz	033
Akai	026, 027, 070, 072, 082,	Fisher	009, 028, 031, 053, 054,		128	Quasar	034, 035, 049
	083, 084		091, 099, 115	MGA	001, 017, 027, 041, 097	Radio Shack	001, 002, 021, 081, 087,
Alba	055	GE	007, 011, 049, 050, 051,	MGN Technology	087		088, 091, 094, 097, 098,
Amstrad	009		052, 073, 080, 087	Midland	011		115



# ENGLISH DEUTSCH FRANCAIS ITALIANO ESPAÑOL NEDERLANDS SVENSKA

Radix	088	Technics	024, 049	Bell & Howell	045, 118	Fujitsu	004, 062
Randex	088	Teknika	009, 010, 022, 049, 088,	Bradford	061	Funai	004, 062
RCA	007, 013, 019, 023, 058,		094	Brockwood	003, 047	Futuretech	004
	063, 064, 065, 073, 080,	ТМК	087, 092	Candle	003, 030, 031, 032, 038,	GE	020, 036, 037, 040, 044,
	082, 087	Toshiba	013, 017, 020, 041, 059,		047, 049, 050, 122		058, 066, 088, 119, 120,
Realistic	009, 021, 031, 033, 049,		089, 098, 099, 117	Capehart	003		125, 147
	053, 081, 087, 088, 091,	Totevision	007, 087, 088	Celebrity	046	Goldstar	000, 015, 029, 031, 039,
	094, 097, 098	Unirech	087	Circuit City	003		048, 051, 056, 057, 067,
Ricoh	055	Vecrtor Research	005, 062, 085, 089, 090	Citizen	029, 030, 031, 032, 034,		068, 069, 116
Salora	033, 041	Victor	005, 045, 046, 085		038, 047, 049, 050, 054,	Grundy	062
Samsung	007, 011, 051, 059, 070,	Video Concepts	005, 027, 085, 089, 090		061, 095, 122, 123	Hitachi	029, 031, 051, 052, 070,
	083, 087, 089, 113	Videosonic	007, 087	Concerto	031, 047, 049		111, 112, 113, 124,
Sanky	081	Wards	013, 021, 023, 087, 088,	Colortyme	003, 047, 049, 135		*[134]
Sansui	005, 026, 029, 045, 061,		089, 091, 094, 097, 118,	Contec	013, 051, 052, 061	Hitachi Pay TV	151
	085, 114		119, 120	Cony	051, 052, 061	Infinity	017, 071
Sanyo	032, 033, 053, 087, 091,	XR-1000	094	Craig	004, 061	Janeil	122
	115, 116	Yamaha	004, 005, 006, 026, 062,	Crown	029	JBL	017, 071
SBR	042		085	Curtis Mathes	029, 034, 038, 044, 047,	JC Penny	020, 034, 039, 040, 041,
Scott	017, 020, 086, 089, 093,	Zenith	060, 078, 079		049, 053, 095, 118		044, 048, 050, 058, 066,
	117			Daewoo	027, 029, 039, 048, 049,		069, 076, 088, 090, 095,
Sears	013, 023, 028, 031, 033,	Т٧			054, 055, 106, 107, 137		125, 136, 159
	053, 054, 088, 091, 098,	Admiral	045, 121	Daytron	003, 049	JCB	046
	099, 115	Adventura	122	Dimensia	044	JVC	019, 051, 052, 072, 073,
Sentra	055	Aiko	054	Dixi	007, 015, 027		091, 117, 126
Sharp	001, 002, 021, 097	Akai	016, 027, 046	Electroband	046	Kawasho	018, 046
Shogun	087	Alleron	062	Electrohome	029, 056, 057, 058, 147	Kenwood	038, 056, 057
Sony	075, 076, 077, 078, 079,	A-Mark	007	Elta	027	Kloss	010, 032
	121, 122	Amtron	061	Emerson	029, 051, 059, 060, 061,	Kloss Novabeam	005, 122, 127, 131
STS	023	Anam	006, 007, 036		062, 118, 123, 124, 139,	KTV	074, 123
Sylvania	009, 015, 016, 017, 041,	Anam National	061, 147		148	Loewe	071
	049, 094	AOC	003, 007, 033, 038, 039,	Envision	038	Logik	144
Symphonic	009, 094		047, 048, 049, 133	Etron	027	Luxman	031
Tandy	009	Archer	007	Fisher	014, 021, 063, 064, 065,	LXI	008, 014, 017, 024, 040,
Tashiko	009, 088	Audiovox	007, 061		118		044, 063, 071, 075, 076,
Tatung	004, 026, 030	Bauer	155	Formenti	155		077, 118, 125
Теас	004, 009, 026, 094	Belcor	047	Fortress	012		



# SVENSKA NEDERLANDS ESPAÑOL ITALIANO FRANCAIS DEUTSCH ENGLISH

Magnavox	005, 010, 017, 030, 033,	Philips	005, 015, 017, 050, 051,	Squareview	004	Eastern	015
-	038, 050, 056, 071, 078,		056, 078, 087, 088, 089,	Supre-Macy	032, 122	Garrard	011
	079, 085, 089, 108, 109,		131, 132, 147	Supreme	046	Gemini	030, 033, 034
	110, 127, 131, 132, 145	Pioneer	124, 128, 142	Sylvania	005, 010, 017, 030, 078,	General Instrument	030, 031, 032
Marantz	015, 017, 071, 080	Portland	054	·	079, 085, 089, 101, 127,	Hytex	006
Matsui	027	Price Club	095		131, 132, 145, 155	Jasco	011
Memorex	014, 027, 045, 083, 118,	Proscan	040, 044, 125	Symphonic	004, 148	Jerrold	009, 016, 017, 026, 032
	144	Proton	035, 051, 092, 129	Tandy	012, 121	Magnavox	018
Metz	160, 161, 162, 163	Pulsar	042	Tatung	036, 124	Movie Time	019
MGA	001, 039, 048, 056, 057,	Quasar	036, 037, 074, 141	Technics	037	NSC	019
	058, 065, 081, 083	Radio Shack	011, 044, 063, 093, 118	Teknika	001, 030, 032, 034, 052,	Oak	000, 006, 020
Midland	125	RCA	040, 044, 125, 130, 137,		054, 078, 083, 095, 144,	Panasonic	001, 005
Minutz	066		151, 152		156, 157	Philips	011, 012, 013, 018, 02
Mitsubishi	001, 016, 039, 048, 056,	Realistic	014, 063, 093, 118	Tera	035, 129	Pioneer	002, 003, 022
	057, 058, 065, 081, 082,	Saisho	027	THOMSON	165, 166	RCA	029
	083, 105	Samsung	003, 015, 034, 053, 055,	Toshiba	008, 014, 034, 063, 075,	Regency	015
Montgomery Ward	011, 020, 144, 145, 146		057, 094, 095, 136, 153		076, 095, 097, 136, 158,	Samsung	014, 023
Motorola	121, 147	Sansui	139		159	Scientific Atlanta	004, 024, 025
МТС	031, 034, 039, 048, 095	Sanyo	013, 014, 021, 022, 063,	Universal	020, 066, 088	Signal	014
NAD	008, 075, 076, 128		064, 081, 096	Victor	019, 073, 126	SL Marx	014
National	002, 036, 061, 147	SBR	015	Video Concepts	016	Starcom	009
National Quenties	002	Schneider	015	Viking	032, 122	Stargate	014
NEC	031, 038, 039, 048, 057,	Scott	062	Wards	005, 045, 066, 078, 085,	Teleview	014
	084, 086, 135, 147	Sears	008, 014, 021, 022, 023,		088, 089, 093, 102, 103,	Tocom	007, 016
Nikko	054		024, 025, 040, 052, 057,		131, 132, 148	TV86	019
NTC	054		062, 063, 064, 065, 073,	Zenith	042, 114, 115, 140, 144,	Unika	011
Optimus	128		075, 076, 097, 098, 125,		149	United Artists	006
Optonica	011, 012, 093, 121		159	Zonda	007	Universal	010, 011
Orion	004, 139	Sharp	011, 012, 013, 026, 093,			Viewstar	018, 019
Panasonic	002, 009, 017, 036, 037,		099, 100, 104, 121	CABLE		Zenith	027, 028
	071, 141, 143, 147	Siemens	013	ABC	006, <b>*[007]</b> , 008, 009		
Philco	005, 010, 030, 050, 051,	Signature	045, 144	Archer	010, 011	DBS (SATELL	ITE)
	056, 079, 085, 127, 131,	Simpson	050	Century	011	Alphastar	054
	132, 145, 147	Sony	043, 046, 138, 146, 150	Citizen	011	Chaparral	035, 036
		Soundesign	030, 050, 062	Colour Voice	012, 013	Dishnet	053
		Spectricon	007, 033	Comtronic	014	Drake	037, 038



# ENGLISH DEUTSCH FRANCAIS ITALIANO ESPAÑOL NEDERLANDS SVENSKA

	Echostar Dish	062, 066	Magnavo
1	GE	048, 055, 056	Marantz
	General Instruments	039, 040, 041	MCS
	Grundig	070, 071, 072, 073	Onkyo
	Hitachi	058, 059	Optimus
1	Hughes Network	063, 064, 065, 069	Philips
	JVC	057	Pioneer
1	Kathrein	074, 075, 076, 083	Sears
	Magnavox	060	Sony
1	Nokia	070, 080, 084, 085, 086	Teac
	Philips	060	Technics
	Primestar	051	Wards
	Proscan	048, 055, 056	Yamaha
	RCA	048, 055, 056, 068	Zenith
	Realistic	042	
	Sierra I	036	CDR
	Sierra II	036	Denon
Ì	Sierra III	036	Philips
	Sony	049, 067	
	STS1	043	MD
	STS2	044	Denon
	STS3	045	Kenwood
	SRS4	046	Onkyo
	Technisat	077, 078, 079, 081, 082	Sharp
	Toshiba	047, 050	Sony
	Uniden	061	

Magnavox	006, 015, 035
Marantz	016, 028, 035
MCS	016, 024
Onkyo	025, 027
Optimus	017, 020, 021, 022, 023
Philips	014, 032, 033, 035
Pioneer	006, 022, 030
Sears	006
Sony	023, 031
Теас	002, 009, 028
Technics	016, 029, 036
Wards	035, 037
Yamaha	038, 039, 040, 041
Zenith	042
CDR	
Denon	* <b>[111]</b> , 112
Philips	112
MD	
Denon	113
Kenwood	003, 004
Onkyo	007
Sharp	005
Sony	006
TAPE	

Panasonic 012 Philips 002
Philips 002
Pioneer 007, 008, 009
Sony 013, 014, 015
Technics 012
Victor 004
Wards 007
Yamaha 010, 011

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

DVD preset codes DVD-Voreinstellungscodes Codes préréglés DVD Codici di preselezione DVD Códigos de preajuste de DVD DVD-voorkeuzecodes Förinställda DVD-koder	111	014
DENON Model No. Modellnr Modéle numéro Modello No Nº de modelo Modelnr Modellnr	DVD-550DVD-2800DVD-700DVD-2800IIDVD-900DVD-2900DVD-1000DVD-2910DVD-1400DVD-3800DVD-1500DVD-3910DVD-1710DVD-A11DVD-1910DVD-A1DVD-2200DVD-A1XV	DVD-800 DVD-1600 DVD-2000 DVD-2500 DVD-3000 DVD-3300

### CD

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Denon	<b>*[111]</b> , 044
Aiwa	001, 035, 043
Burmster	002
Carver	003, 035
Emerson	004, 005, 006, 007
Fisher	003, 008, 009, 010
JVC	018, 019
Kenwood	011, 012, 013, 014, 017

IAPE		
Denon	*[111]	
Aiwa	001, 002	
Carver	002	
Harman/Kardon	002, 003	
JVC	004, 005	
Kenwood	006	
Magnavox	002	
Marantz	002	
Onkyo	016, 018	



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