

AV SURROUND RECEIVER

AVR-790

Owner's Manual

Manuel de l'Utilisateur

***** The illustrations used for explaining operations in this manual show the buttons of the remote control unit.

The same operations can be performed using the buttons with the same names on the main unit panel.

* Les illustrations des boutons présentes dans ce manuel servent à expliquer le fonctionnement de la télécommande.

Vous pouvez contrôler l'appareil à l'aide du bouton portant le même nom sur la façade de l'appareil.

□ 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.



I

CAUTION: HOT SURFACE. DO NOT TOUCH.

The top surface over the internal heat sink may become hot when operating this product continuously.

PRECAUTION: SURFACE CHAUDE. NE PAS TOUCHER.

La surface supérieure du dissipateur de chaleur peut devenir chaude si vous utilisez ce produit en continu.

IMPOTANT SAFETY INSTRUCTIONS

- Read these instructions.
- 2. Keep these instructions.
- Heed all warnings. З.
- Follow all instructions. 4.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings.
- Install in accordance with the manufacturer's instructions. 8. Do not install near any heat sources such as radiators, heat registers,
- stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into vour outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to gualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION:

- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the unit.
- Observe and follow local regulations regarding battery disposal.
- Do not expose the unit to dripping or splashing fluids.
- Do not place objects filled with liquids, such as vases, on the unit.

ATTENTION:

- La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des obiets tels que journaux, rideaux, tissus, etc.
- Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil.
- Veillez à respecter les lois en vigueur lorsque vous jetez les piles usaqées.
- L'appareil ne doit pas être exposé à l'eau ou à l'humidité.
- Ne pas poser d'obiet contenant du liquide, par exemple un vase. sur l'appareil.

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.

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.





FCC INFORMATION (For US customers)

1. PRODUCT

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

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

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

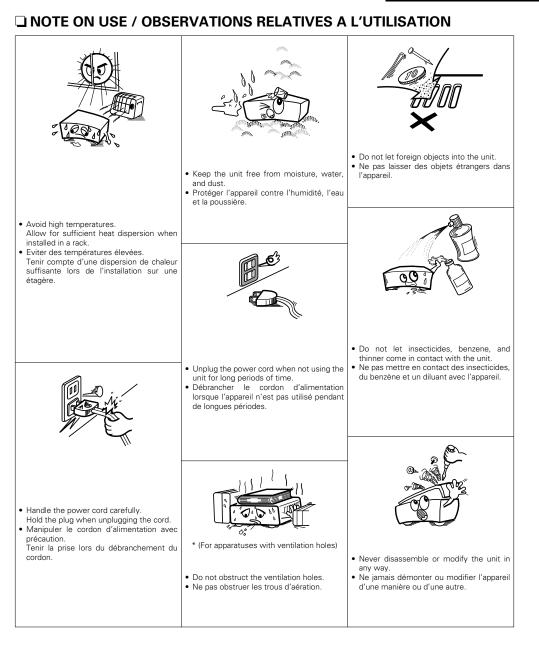
3. NOTE

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

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

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

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



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List of preset codes End of this manual

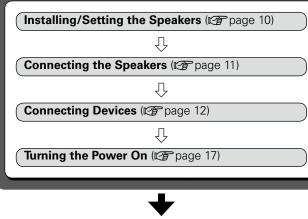
...55

Getting Started

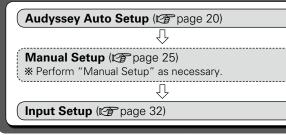
Flow of operations through playback

Perform the operations leading to playback on the AVR-790 in the order shown below.

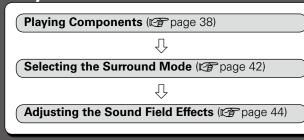
Connections



Settings



Playback



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

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

Accessories

Check that the following parts are supplied with the product.

1) Owner's manual	1	
2) Getting Started	1	
) Warranty (for North America model only)		
) Service station list		
(5)	Remote control (RC-1117)	1	
-	R6/AA batteries		
) FM indoor antenna		
) AM loop antenna		
) Setup microphone		
0	(DM-A409, Cord length: Approx. 25 ft / 7.6 m)	1	
		'	



Cautions on Handling

· Before turning the power switch on

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

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

About condensation

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

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

Cautions on using mobile phones

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

Moving the unit

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

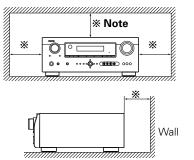
Next, disconnect the connection cables to other system units before moving the unit.

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

Cautions on Installation

Note:

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



About the Remote Control Unit

In addition to the AVR-790, the included remote control unit (RC-1117) can also be used to operate the equipment listed below.

the battery compartment.

R6/AA

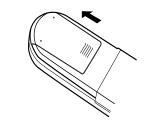
1 DENON system components

(2) Non-DENON system components

• By setting the preset memory (B) page 52)

Inserting the Batteries

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



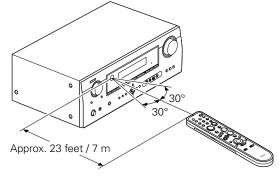
(3) Put the rear cover back on.



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

Operating Range of the Remote Control Unit

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

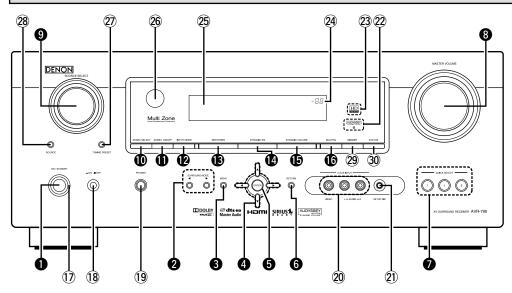


NOTE

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

Part Names and Functions

Front Panel



Buttons, terminals and displays only provided on the main unit

① Power indicator	24 M
18 Power switch (ON _OFF)	25 Di
(19) Headphones jack (PHONES)	26 Re
20 V. AUX INPUT connectors	27 TL
(21) SETUP MIC jack	28 SC
22 AUDYSSEY DYNAMIC VOLUME	29 DI
indicator (47)	30 ST
23 HD AUDIO indicator (43)	-

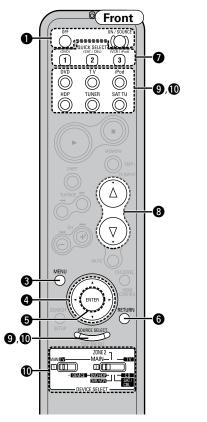
)	29 MASTER VOLUME indicator
)	25 Display
)	26 Remote control sensor (3)
)	TUNING PRESET button
)	28 SOURCE MODE SELECT button (38)
	29 DIMMER button
)	30 STATUS button

Button that function in the same way as remote control buttons

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

Power operation button	MASTER VOLUME control knob (38)
(ON/STANDBY)(17)	9 SOURCE SELECT knob (38)
2 SURROUND MODE buttons	O ZONE2 SELECT button (51)
3 MENU button (18)	① ZONE2 ON/OFF button(51)
4 Cursor buttons ($\Delta \nabla \triangleleft \triangleright$)	(2 INPUT MODE button
5 ENTER button	BRESTORER button
6 RETURN button (18)	DYNAMIC EQ button (47)
OUICK SELECT buttons	DYNAMIC VOLUME button
	(MULTEQ button

D Buttons that function in the same way as Front Panel buttons



Rear A 9,0 DYN EO DYN VOL

Getting Started

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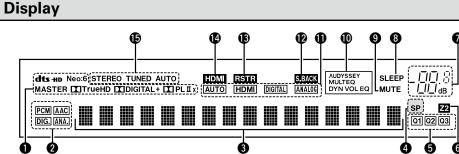
Playback

Multi-Zone

Remote Control

Information

Troubleshooting



0 **Decoder indicators**

The indicator for the currently operating decoder lights.

2 Input audio signal indicators

3 Information display

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

4 Front speaker indicator

Lights when audio signals are being output from the speakers.

OUICK SELECT indicators

These light when the Quick Select function is set (🕼 page 50).

6 ZONE2 indicator

Lights when signals are being output to the ZONE2 (2 page 51).

Master volume indicator

When performing setting operations, displays the menu number.

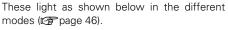
SLEEP TIMER indicator

Lights when the sleep timer is operating (CP page 49).

MUTE indicator

Lights when the muting mode is set (127 page 42).

AUDYSSEY indicator





During "MultEQ" operation



 AUDYSSEY

 MULTEQ

 DYN
 EQ

 : During "MultEQ", "Dynamic EQ"
 operation



During "MultEQ", "Dynamic EQ", "Dynamic Volume" operation

Z2 🗆

When speaker settings are changed after the Audyssey Auto Setup procedure, either the indicators' frame turns off or all the indicators turn off

D Input mode indicators

B S.BACK indicator

Lights when audio signals are being output from the surround back speakers (2 page 26).

RESTORER indicator

Lights during "RESTORER" operation (127 page 48).

HDMI indicator

Lights when HDMI input signals are detected (Cr page 13).

(b) Tuner reception mode indicators

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

• AUTO

This lights when in the auto tuning mode.

• STEREO

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

• TUNED

This lights when the broadcast is properly tuned in.

5



Getting Started

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Playback

Multi-Zone

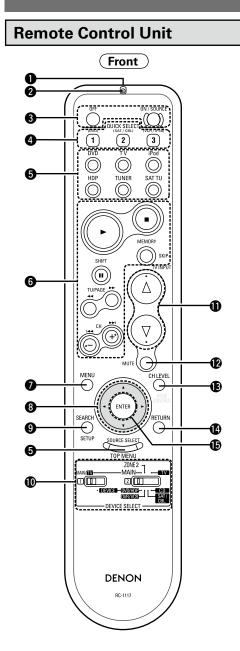
Remote Control

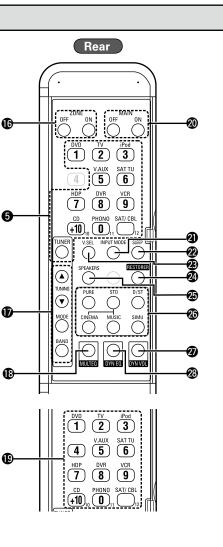
Information

Troubleshooting

Specifications

Part Names and Functions **Rear Panel** 9 Ð Ð ß Ð SPEAKERS SURR, BACK / AMP ASSIGN EXT_IN COMPONENT VIDEO(ASSIGNABLE) AUDIO 1 (DVD) Y PB/CB PR/CR AC OUTLETS 120V \sim 60Hz 1(DVD SWITCHED TOTAL 120W(1A.) MAX IN #======= DOCK CONTROL SPEAKER IMPEDANCE (HDP) FRONT :6~16Ω (O)CENTER :6~16Ω IN SURROUND :6~16Ω OAX -SURR. BACK / AMP ASSIGN : 6~16 Ω VIDEC 3 (SAT/CBL) ONE2 VCR FRONT SURROUND COAX -2 2 E (SAT/CBL) IN 🛃 TUNER ANTENNA COAX. 75 Ω ۵ IN OPT -O \bigcirc (DVR) ٨٨. OUT OUT *Ô), SAT TU 🚱 \bigcirc SUBWOOFER \sim PRE OUT OUT HDMI(ASSIGNABLE) DIGITAL(ASSIGNABLE) ANTENNA 0.06 -(4 5 **6** Analog audio connectors (14) **HDMI connectors** (13) **2ONE2 connectors**(51) **FM/AM antenna terminals**.....(17) **B** Speaker terminals (11) Control Dock for iPod S-Video input terminal **3 VIDEO connectors**(15) **9** Power cord(17) **PRE OUT connector** (11) Control Dock for iPod DOCK CONTROL jack **6** SIRIUS connector(16) **(16)** EXT. IN connectors





		-
0	Remote control signal transmitter	
2	Indicator	
8	Power buttons	
A	QUICK SELECT buttons	
õ		
6	System buttons	
õ	MENU button	
8	Cursor buttons ($\Delta \nabla \triangleleft \triangleright$)(18)	
õ	SEARCH button (39)	
Õ	DEVICE SELECT switches	
ŏ	Master volume control buttons	
ē	MUTING button	
ß		
B	RETURN button	
G	ENTER button	
G	ZONE2 power button (10)	
Ð	Tuner operation buttons	
B	MULTEQ button	
B	Number buttons (0 ~ 9, +10)	
0	MAIN ZONE power buttons $(0 \sim 9, +10)$ (32)	
a	INPUT MODE button (17)	
2		
-	SLEEP TIMER button (49)	
3	VIDEO SELECT button (34)	
2	RESTORER button (48)	
Ø	FRONT HEIGHT SPEAKER ON/OFF button	
•		
26		
@	DYNAMIC VOLUME button	
23	DYNAMIC EQ button(47)	
For	buttons not explained here, see the page	
	icated in parentheses ().	

NOTE

Buttons on the back panel may operate when the back lid is pressed.

Part Names and Functions

Operations	possible	by	remote
control			

Operations on the AVR-790

Operations on six devices other that the AVR-790

- Preset the remote control codes of the devices to be operated (2 page 52).
- Switch two device selector switches according to the devices to be operated.

Position of switches		
MAIN/EX)		Operable devices
	MAIN	AVR-790 (MAIN ZONE) iPod
MAIN/TV	ZONE 2	AVR-790 (ZONE2)
	TV	TV
	DVD/HDP	Blu-ray disc player or DVD Player
DEVICE	DVR/WCR	DVD recorder or Video deck
	SAT/ CBL	Satellite receiver or Cable TV
	CD	CD player

□ ZONE2 operations (☞ page 51) □ Punch through setting (☞ page 54)

S

Connections

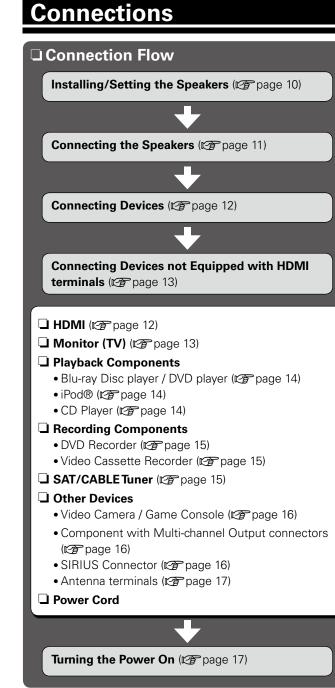
Settings

Playback

Multi-Zone

Remote Control

Information



Important Information

Connections for all compatible audio and video signal formats are described in this owner's manual. Please select the types of connections suited for the equipment you are connecting.

After connections are completed, certain settings must be made on the receiver. Make the settings indicated " Set as necessary for the individual items.

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

Cables Used for Connections

Select the cables according to the equipment being connected.

	Audio and video cables				
HDMI connections		HDMI cable	D		
	A	udio cables			
Coaxial digital connections	Ø	Coaxial digital cable	0		
Optical digital connections	0	Optical cable	0		
Analog connections	(White) O (Red) O		0		
		Stereo pin-plug cable			
Analog connections (monaural, for subwoofer)	0	طالب کی معاد ہے۔ Pin-plug cable	0		
Speaker connections	+	7	+		
connections	_	Speaker cables	_		
	V	ideo cables			
Component video connections	(Green) () (Blue) () (Red) ()		0 0 0		
S-Video connections		Component video cable	9		
Video connections	(Yellow) 🔘	T5 Ω/ohms pin-plug video cable	0		

Getting Started

Connections

Settings

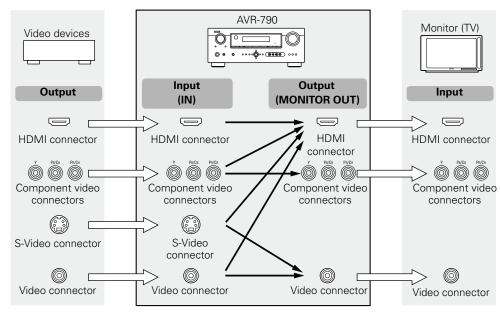
Playback

Converting Input video signals for Output (Video Conversion Function)

The AVR-790 is equipped with four types of video input terminals (HDMI, Component video, S-Video and video) and three types of video output terminals (HDMI, Component video and video).

Use the terminals according to the devices to be connected.

This function automatically converts various formats of video signals input to the AVR-790 into the format used to output the video signals from the AVR-790 to a monitor.



- The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60 formats.
- The resolution of the video signal input to the AVR-790's HDMI terminal is the resolution set at "Resolution" (127 page 34). (1080p HDMI signals and 1080p component signals are output at 1080p, regardless of the setting.)
- Resolutions of HDMI-compatible TVs can be checked at "HDMI Monitor Information" (127 page 48).

NOTE

- The S-Video input terminal is exclusively for use with a Control Dock for iPod. It can be used when the Control Dock for iPod is connected to the terminal assigned to the iPod input source.
- HDMI signals cannot be converted into analog signals.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

How the on-screen display is displayed depending on the video input signal

The way the on-screen display of the menus, status, etc., is displayed differs according to the type of video signal input to the AVR-790.

When video signals are input from the HDMI or component video terminals

- Menu: Switches to a screen with a black background and the menu is superimposed. (*1)
- Status display: Not displayed.
- ※1: If you want to display the menus superimposed on the picture being played, input the same video signals to the S-Video or video terminals. When a menu is displayed, the picture switches to the one being input from the S-Video or video terminals and the menu is displayed superimposed over this picture.

NOTE

Menus and status display screens are not displayed for component video terminal pictures. To display them, also connect the video terminals.

When video signals are being input from the S-Video or video terminals

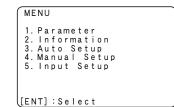
- Menu: Menus are displayed superimposed over the picture being played.
- Status display: Displayed.

Examples of on-screen display

Menu screen

• Status display screen When the input source is switched

When the volume is adjusted





Master Volume — 80.0dB

Status display: The operating status is displayed temporarily on the screen when the input source is switched or the volume is adjusted.

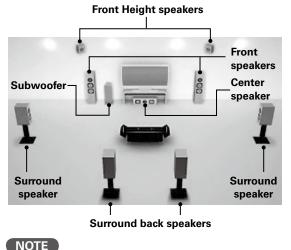
Installing/Setting the Speakers

- The AVR-790 is compatible with various types of surround playback.
- · Decide on the surround modes to be played on the AVR-790 before making connections and settings.

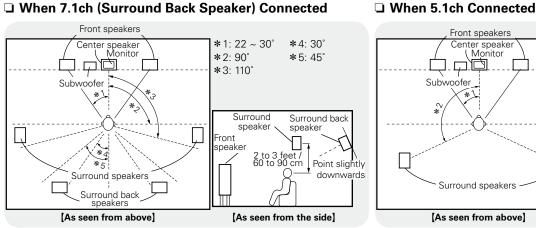
1 Determine the Speaker Layout.

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.

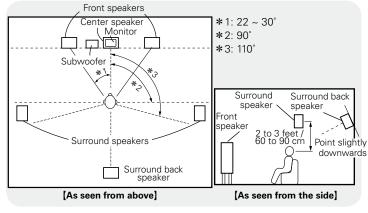
Installing All the Speakers



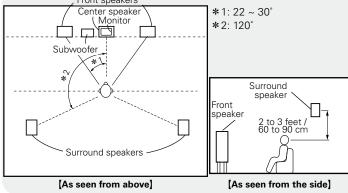
It is not possible to use the front height speakers and surround back speakers simultaneously.



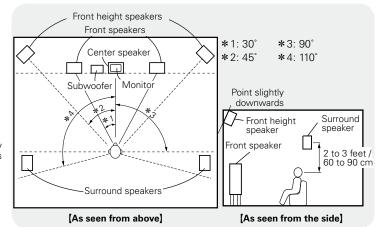
When 6.1ch Connected



Front speakers



U When 7.1ch (Front Height Speaker) Connected



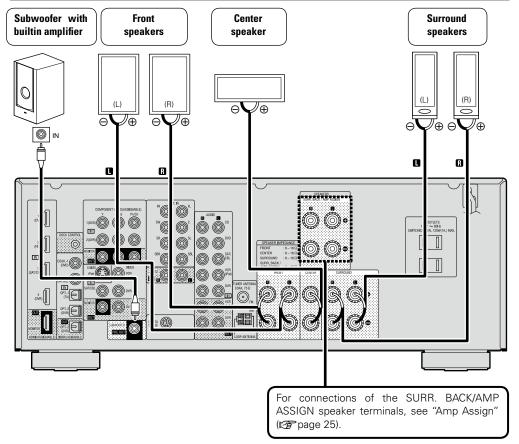
Install	ing/Set	ting th	ne Spe	aker

2 Set the "Amp Assign" Mode According to the Speaker Layout.

The signals output from the AVR-790's SURR. BACK/AMP ASSIGN speaker terminals can be switched to signals of the surround mode being used (1277 page 25 "Amp Assign").

Amp assign mode (🖅 page 25)	SURR. BACK/AMP ASSIGN Speaker connections	Example of speaker installation
Normal	Surround back speakers	
Normal	Surround back speakers * Connect to the "L" speaker terminal. * Set "Surround Back" (27 page 26) to "1spkr".	
Normal	Not connected * Set the "Surround Back" setting (P page 26) to "OFF"	8 8 8 (5.1)
Front Height	Front Height speakers	
Front Bi-Amp	Front speakers * For connections, see "About bi-amp connections" (r page 12).	
ZONE2 (Default)	ZONE2 speakers	MAIN ZONE ZONE2

Connecting the Speakers



Protection circuit

If the core wires touch the rear panel and the screws etc., or the \pm sides touch each other, the protection circuit will be activated and the power indicator will flash red at intervals of 0.5 secs.

If the protection circuit is activated, the speaker output is isolated, and the power supply goes to the standby state. If the power supply is turned off, after the power supply cord is withdrawn, please confirm that speaker cable and input cable are connected.

Also, if replaying large sound levels by using a speaker having an impedance less than that

specified (eg, 4 Ω /ohms), the temperature will rise, and the protection circuit might be activated. The power supply will go into the standby state, and the power indicator will flash red at 2 second intervals. In this case, please switch off the power supply, and wait until the AVR-790 has cooled down, and the surrounding ventilation is good.

Even if there are no problems with the surrounding ventilation and connections, in the event of the protection circuit becoming activated,

due to thinking that the AVR-790 has failed, please contact DENON Service center after switching off.

Getting Started

Connections

Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-790, and be sure to interconnect the channels and polarities correctly.

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

When using a banana plug

Tighten the speaker terminal firmly before inserting the banana plug.

A

Use speakers with an impedance of 6 to 16 Ω /ohms.

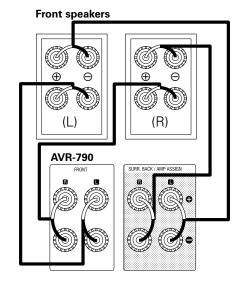
NOTE

- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (27) "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

About bi-amp connections

These connections make for higher quality playback sound with no interference between the signals of the bass and treble units. When the amplifier assignment mode is set to "Front Bi-Amp", connect as shown below.

Connecting the Speakers



.....

When in the "Front Bi-Amp" mode, the same signals are output from the front speaker terminals and the AMP ASSIGN terminals.

NOTE

- Use speakers compatible with bi-amp connections.
- When making bi-amp connections, be sure to remove the shortcircuiting plate or wire between the speaker's woofer and tweeter terminals.

Connecting Devices

Connecting Devices Equipped with HDMI terminals

Important Information

About HDMI

"HDMI" is the abbreviation of "High Definition Multimedia Interface". This interface allows transfer of digital video signals and digital audio signals over a single HDMI cable.

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

□ Functions usable with HDMI connections

Deep Color

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

x.v.Color

Enables displays with natural, vivid colors. "x.v.Color" is a Sony registered trademark.

Auto Lip Sync (27 page 28)

HDMI 1.3 incorporates an automatic video/audio synching capability that allows devices to perform this synchronization automatically with total accuracy.

HDMI control function (27 page 28, 49)

This function allows you to operate external devices from the receiver and operate the receiver from external devices.

NOTE

These functions will not work if the device connected to the HDMI terminal does not support Deep Color or x.v.Color signal transfer or the Auto Lip Sync function.

Copyright protection system (HDCP)

The AVR-790 supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a copyright protection technology for digital video signals. The devices connected to the AVR-790 must also support HDCP.



When a device that does not support HDCP is connected, video signals are not properly output.

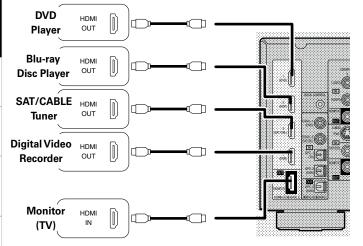
Getting Started

Connections

Settings

Connections

The AVR-790 allows connection of inputs from up to 4 HDMI devices and output to 1 TV.



• Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).

- When the AVR-790 is connected to other devices with HDMI cables, also connect the AVR-790 and TV using an HDMI cable.
- When a device supporting Deep Color signal transfer is connected, use a cable compatible with HDMI ver.1.3a.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the Blu-ray Disc player / DVD player's resolution to a resolution with which the monitor is compatible.

NOTE

- If the menu "HDMI Audio Out" setting (127 page 28) is set to "AMP", the sound may be interrupted when the monitor's power is turned off.
- The audio signal from the HDMI output terminal (sampling frequency, number of channels, etc.) may be limited by the HDMI audio specifications of the connected device regarding permissible inputs.

□ Connecting to a device equipped with a DVI-D terminal

When an HDMI/DVI conversion cable (sold separately) is used, the HDMI video signals are converted to DVI signals, allowing connection to a device equipped with a DVI-D terminal.

NOTE

- No sound is output when connected to a device equipped with a DVI-D terminal. Also make the audio connections.
- \bullet Signals cannot be output to DVI-D devices that do not support HDCP.
- Depending on the combination of devices, the video signals may not be output.

□ Settings related to HDMI connections

Set as necessary. For details, see the respective reference pages.

Input terminal assignment (P page 33)

Set this when changing the input sources of the different terminals.

HDMI Setup (😰 page 28)

Make these settings related to HDMI input/output signals.

- Auto Lip Sync
- HDMI Audio Out
- HDMI Control
- Standby Source
- Power Off Control

NOTE

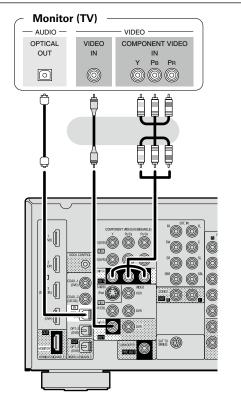
The audio signals output from the HDMI connectors are only the HDMI input signals.

Connecting Devices not Equipped with HDMI terminals

Monitor (TV)

- Select the terminal to use and connect the device.
- For video connections, see "Converting input video signals for output (Video Conversion Function)" (1277 page 9).

For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12.



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The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.

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Information

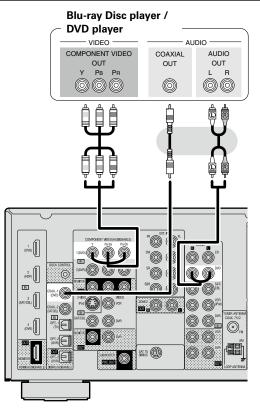
Troubleshooting

Specifications

Blu-ray Disc player / DVD player

Select the terminal to use and connect the device.

For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12.



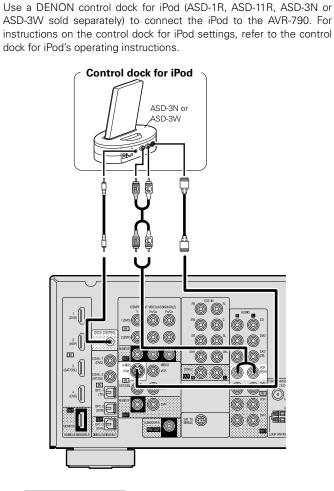
Set as necessary

Set this to change the input signal to which the input source is assigned.

"Assign" (🕼 page 33)

NOTE

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



Set as necessary

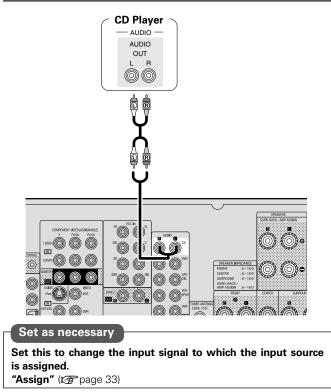
Control dock for iPod®

Set this to assign the iPod to a terminal other than "VCR (iPod)" "iPod Dock" (@page 33)

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

Connecting Devices not Equipped with HDMI terminals

CD Player

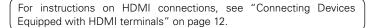


Getting Started

Recording Components

Digital Video Recorder

Select the terminal to use and connect the device.



DVD Recorder VIDEO AUDIO VIDEO AUDIO OPTICAL COMPONENT VIDEO AUDIO VIDEO VIDEO AUDIO OPTICAL OUT OUT OUT OUT IN IN IN Y PB PR L R L R 000 0 $\bigcirc \bigcirc$ 0 $\bigcirc \bigcirc$ 0 0 Ō C AC-OK 32894 IERE IDTA 0

Set as necessary

Set this to change the input signal to which the input source is assigned.

"Assign" (🕼 page 33)

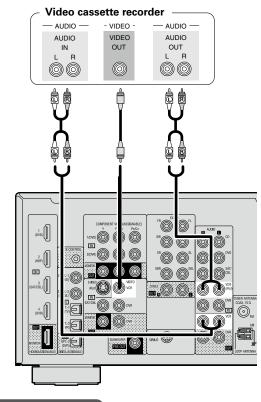
NOTE

- To record video signals through the AVR-790, use the same type of video cable for connection between the AVR-790 and the player as the cable used for connection between the AVR-790 and the recorder.
- Do not connect the output of the component connected to the AVR-790's OPTICAL2 output connector to any input connector other than OPTICAL2.

Video Cassette Recorder

Select the terminal to use and connect the device.

For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12.



Set as necessary

Set this to change the input signal to which the input source is assigned.

"Assign" (🕼 page 33)

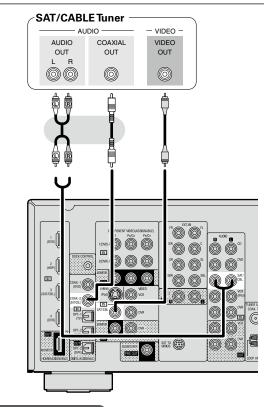
NOTE

To record video signals through the AVR-790, use the same type of video cable for connection between the AVR-790 and the player as the cable used for connection between the AVR-790 and the recorder.

Select the terminal to use and connect the device.

SAT/CABLE Tuner

For instructions on HDMI connections, see "Connecting Devices Equipped with HDMI terminals" on page 12.



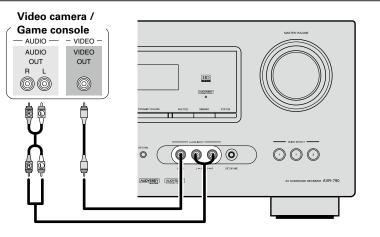
Set as necessary

Set this to change the input signal to which the input source is assigned. "Assign" (2 page 33)

15

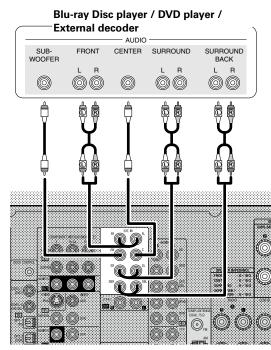
Other Devices

Video Camera / Game Console



Component with Multi-channel Output connectors

The video signal can be connected in the same way as a Blu-ray Disc player / DVD player (1) player (1).



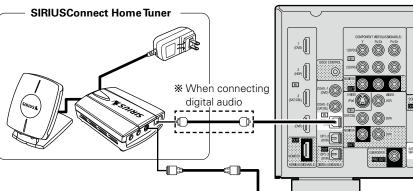
Set as necessary

To play analog signals input from the external input (EXT. IN) terminal, set "Input Mode" (Page 34) on the menu to "EXT. IN".

"EXT. IN" can also be selected with

SIRIUS Connector

- The AVR-790 is a SIRIUS Satellite Radio Ready[®] receiver. You can receive SIRIUS® Satellite Radio by connecting to the SiriusConnect Home Tuner and subscribing to the SIRIUS service.
- Plug the SIRIUS connector on the rear panel.
- Position the Home Tuner antenna near a south-facing window to receive the best signal.
 For details, see "Listening to SIRIUS Satellite Radio Programs" (
 Page 40, 41).
 When making connections, also refer to the operating instructions of the SiriusConnect Home Tuner.



When connecting digital of the SiriusConnect Home Tuner, perform the setting "Assign" (Pp page 33) from the menu.

NOTE

(

WEST

Keep the power cord unplugged until the SiriusConnect Home Tuner connection have been completed.

"SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved. Service not available in Alaska and Hawaii."

Positioning the Antenna

NORTH

SOUTH

For a consistent satellite signal, the antenna must be positioned correctly. Use the following map to determine which area you are in and position the antenna accordingly.

SKY

HORIZON

- Area 1 : Point the antenna toward the sky in the east, northeast, or southeast, either through a window or outside.
- Area 2 : Point the antenna toward the sky in the north or northeast, either through a window or outside.
- Area 3 : Point the antenna toward the sky in the north EAST or northwest, either through a window or outside.
 - Area 4 : Point the antenna toward the sky in the west, northwest, or southwest, either through a window or outside.
 - Area 5 : Put the antenna outside and point it straight up. The antenna cannot be used indoors.

Getting Started

Connections

Settings

Playback

Multi-Zone

Remote Control

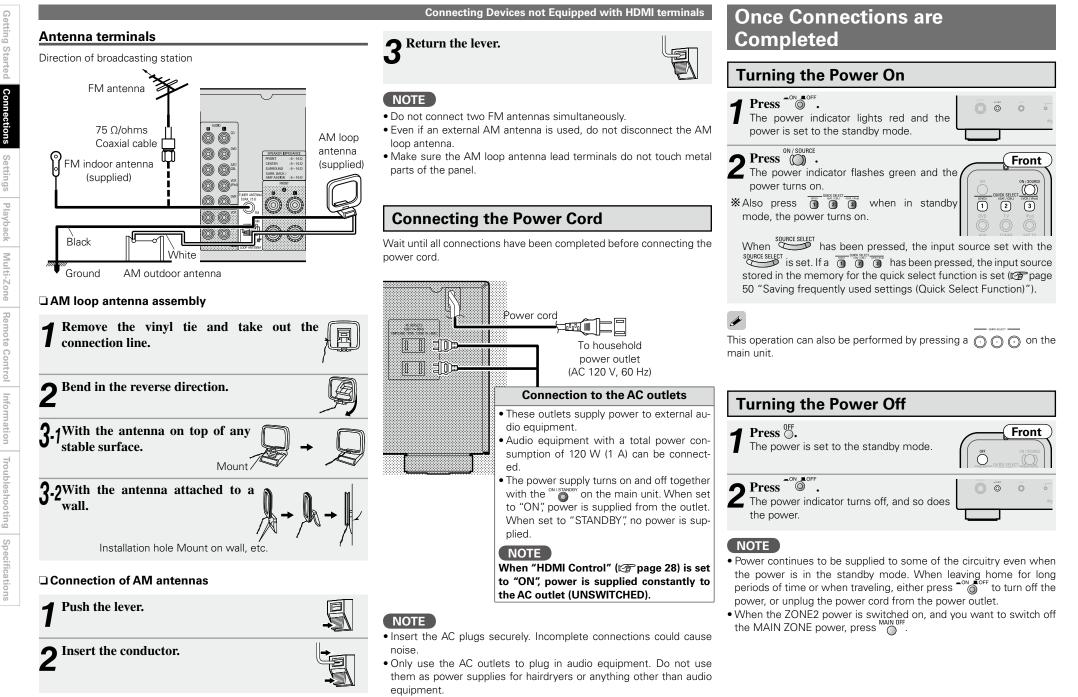
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Settings

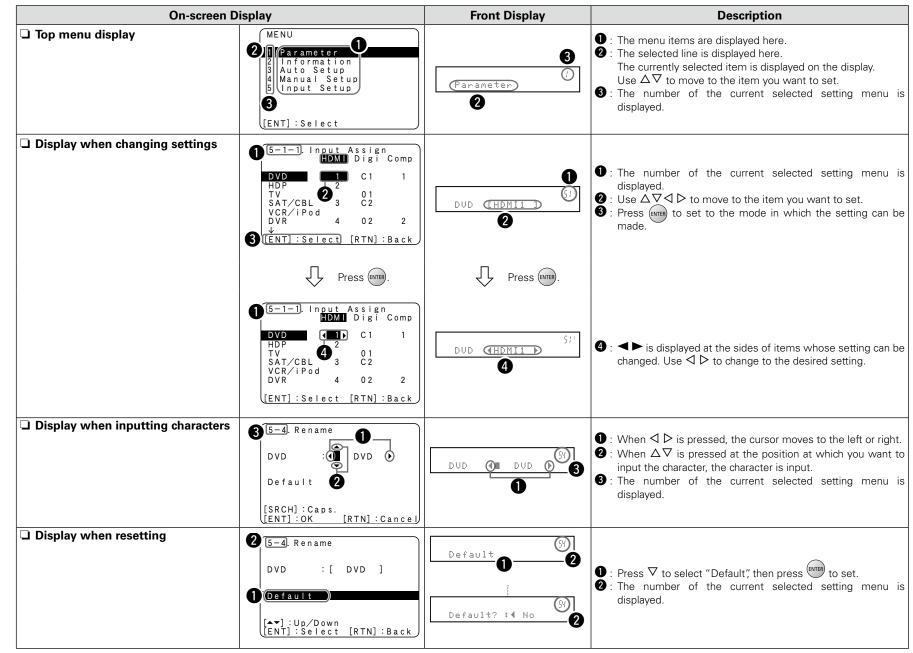
With the AVR-790, settings and operations for most functions can be performed by operating while looking at the menus displayed on the monitor screen.

Menu map Deperations Menu T Press The menu displayed.	$\Rightarrow 2^{\operatorname{Press} \Delta \nabla \operatorname{to}}_{\operatorname{select the item}} \\ \Rightarrow 2^{\operatorname{select the item}}_{\operatorname{you want to}} \\ \text{set, then press}_{\operatorname{EVTB}} \\ \Rightarrow $	you	want to hen press*To r * Selet	Use $\Delta \nabla \triangleleft \triangleright$ to select the item, hen press (ENTER) to set. eturn to the previous item, press \bigcirc . ett "Default Yes", then press (ENTER) to et to the default setting.	the
Setting menus	Setting items	Number	Detailed items	Description	Page
	1. Parameter	1-1	Surround Parameter	Adjust surround sound parameters.	44
MENU	Adjust various audio parameters.	1-2	Tone Control	Adjusts the treble and bass tone.	46
MENO		1-3	Audyssey Settings	Makes the MultEQ, Dynamic EQ and Dynamic Volume settings.	46
1. Parameter		1-4	Manual EQ	Adjust tonal quality for each speaker using graphic equalizer.	47
2. Information		1-5	RESTORER	Uncompress compressed sources and apply bass boost for richer sound.	48
3. Auto Setup		1-6	Audio Delay	Compensate for incorrect timing between video and audio.	48
4. Manual Setup	2. Information	2-1	Status	Shows information about current settings.	48
<u>5. Input Setup</u>	Show information about receiver	2-2	Audio Input Signal	Shows information about audio input signals.	48
Î Î Î	settings, input signals, etc.	2-3	HDMI Information	Displays the HDMI input/output signals and TV information.	48
		2-4	Auto Surround Mode	Displays the settings stored for the auto surround mode.	48
([ENT]:Select		2-5	Quick Select	Displays the settings stored for the Quick Select function.	48
		2-6	Preset Channel	Shows information about preset channels.	48
Items that only need to be set once Set these for example upon purchase.	3. Auto Setup Makes the optimum speaker	3-1	Audyssey Auto Setup	Makes the optimum settings for the speakers being used automatically.	21
Once these items are set, there is no need to set them again unless the speaker layout or the connected speakers have been changed.	settings and corrects for the acoustic characteristics of the room.	3-2	Parameter Check	Check Audyssey Auto Setup measurement results. This item is only displayed after the Audyssey Auto Setup procedure has been performed.	24
	4. Manual Setup	4-1	Speaker Setup	Sets the speaker size and distance, the channel level, etc.	25
Front	Use this to make various types of	4-2	HDMI Setup	Make settings for HDMI video/audio output.	28
	detailed settings.	4-3	Audio Setup	Make settings for audio playback.	29
MUTE		4-4	ZONE2 Setup	Make settings for audio playback in a ZONE2 system.	30
MENU CH LEVEL		4-5	Option Setup	Make various other settings.	30
HOLE + HOLE + HOLE	5. Input Setup	5-1	Assign	Change input connector assignment.	33
SEARCH	Use this to make settings related	5-2	Video	Makes the video settings.	34
SETUP SOURCE SELECT	to playing input sources.	5-3	Input Mode	Sets the audio input mode and decode mode.	34
TOP MENU ZONE 2		5-4	Rename	Change the display name for this source.	35
		5-5	Source Level	Adjust the playback level of the audio input.	35
		5-6	iPod Playback Mode	Make settings for iPod playback.	35
		5-1	Auto Preset	Use the auto preset function to program radio stations.	36
		5-2	Preset Skip	Set the preset memories that you do not want to display when tuning.	36
		5-3	Preset Name	Assign name to a preset memory.	36
		5-2	Parental Lock	Set the channel radio reception limits.	37
		5-3	Antenna Aiming	Check the SIRIUS radio reception sensitivity.	37

Getting Started Connections Settings Playback Multi-Zone Remote Control Information Troubleshooting Specifications

Examples of On-screen Display and Front Display

Below we describe typical examples of displays on the TV screen and on the set's display window.



Getting Started

Connections

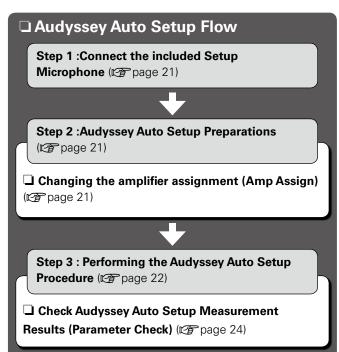
Settings

Playback

Multi-Zone

Making the Optimum Settings for the Connected Speakers Automatically (Audyssey Auto Setup)

The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically.



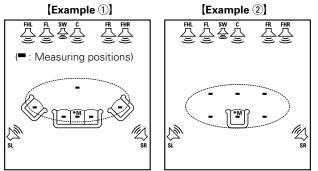
Important Information

Audyssey MultEQ[®] automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.

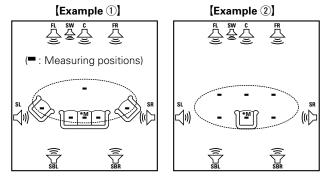
- When the Audyssey Auto Setup procedure is performed, the MultEQ. Dynamic EQ and Dynamic Volume functions (CF page 46) are enabled.
- Use the included setup microphone (DM-A409) to perform the Audyssey Auto Setup procedure.
- Measurements are performed by placing the calibrated microphone successively at multiple positions throughout the listening area as shown in **[Example** 1]. For best results, it is strongly recommended to measure 6 positions so that the measurements have the proper spatial weighting.

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

U When using Front Height Speakers



U When using Surround Back Speakers



- FHL : Front height speaker (L)
- FL : Front speaker (L)
- SW : Subwoofer
- **C** : Center speaker
- FR : Front speaker (R)
- FHR : Front height speaker (R)
- **SR** : Surround speaker (R)
- SBR : Surround back speaker (R)
- **SBL** : Surround back speaker (L)
- **SL** : Surround speaker (L)

About the main listening position (*M)

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

- Loud test sounds may be played during Audyssey MultEQ automatic speaker setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds.

Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).



Step 1 : Connect the included Setup Microphone

NOTE

- Do not disconnect the setup microphone until the Audyssev Auto Setup procedure is completed.
- When using headphones, unplug the headphones before starting the Audyssey Auto Setup procedure.

Check the speaker connections.

(page 11 "Connecting the Speakers")

Turn on the power of the TV and subwoofer.

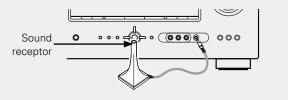
Set the TV's input to the AVR-790.

Turn on the AVR-790's power.

(CP page 17 "Turning the Power On")

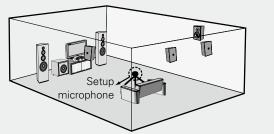
Connect the included calibrated setup microphone to the SETUP MIC jack on the main unit.

The Audyssey Auto Setup screen appears automatically.



5 Mount the setup microphone on a tripod or stand and install it at the main listening pagitien install it at the main listening position.

When installing the setup microphone, adjust its height so that the section where the sound is received is at the height of the ears during listening.



- Do not hold the microphone in your hand during measurements.
- Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

When using a subwoofer on which the volume can be adjusted and the crossover frequency can be set

When using a subwoofer, make the following settings before starting the Audyssey Auto Setup procedure:

U When using a subwoofer with a direct mode

Set the direct mode to "On" and disable the volume adjustment and crossover frequency setting.

U When using a subwoofer without a direct mode

- Make the following settings:
- Volume :"12 o'clock position"
- Crossover frequency : "Maximum/Highest Frequency" :"Off"
- Low pass filter
- Standby mode :"Off"

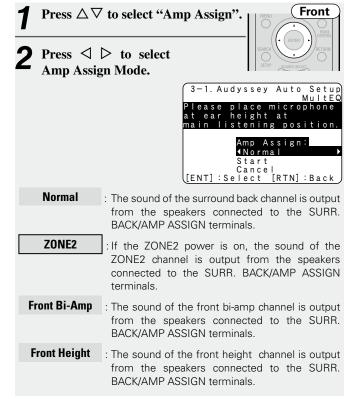
Step 2 : Audyssey Auto Setup Preparations

around items indicate the settings made upon purchase.

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

Changing the amplifier assignment (Amp Assign)

The signals output from the AVR-790's SURR. BACK/AMP ASSIGN speaker terminals can be switched to signals of the surround mode being used.



To cancel Audvssev Auto Setup

Use $\Lambda \nabla$ to select "Cancel" then use $\triangleleft \triangleright$ to select "Yes"

Getting Started

Connections

Setting

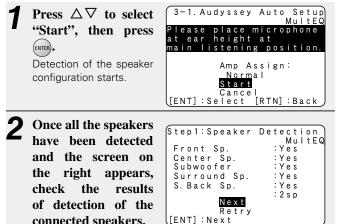
Playback

Multi-Zone

Remote Control

Step 3 : Performing the Audyssey Auto Setup Procedure

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



connected speakers.

Once you have checked the results, use $\Delta \nabla$ to select "Next", then press (ENTER).

Measurements for the main listening position begin.

Once the screen on right appears, the setup move the microphone to the second position. use $\Delta \nabla$ to select "Next", then press (ENTER)

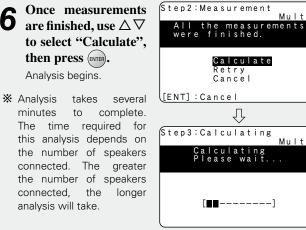
Step2:Measurement MultEQ Please place microphone at ear height at 2nd listening posit Next Calculate Cancel [ENT] :Next

Measurements for the second position begin.

Perform Step 4 repeatedly for the 3rd, 4th, 5th, and J 6th measurments.

Once measurements for the sixth position are completed, "All the measurements were finished." is displayed.

* Measure at a total of six positions, including the main listening position and positions around it. It is possible to stop the settings with five positions or fewer, but for better results we recommend measuring at six positions.

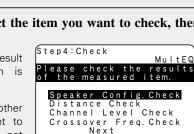


Use $\Delta \nabla$ to select the item you want to check, then press (ENTER).

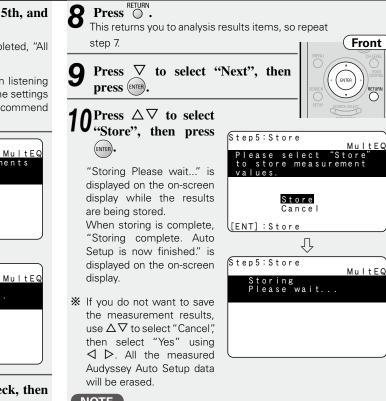
The measurement result confirmation screen is displayed.

X Subwoofers or other speakers may be set to a value that does not correspond to the actual distance.

b



ENT]:Select



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

Disconnect the setup microphone from the AVR-**1 4** 790.

See overleaf

NOTE

Getting Started Connections Settings Playback Multi-Zone **Remote Control** Information Troubleshooting Specifications

Do not change the speaker connections or subwoofer volume, or speaker locations after making measurements. If changes are necessary, make the changes and use the Audyssey Auto Setup once again for an updated EQ solution.

- If the result differs from the actual connection status or an error message appears, use $\Delta \nabla$ to on-screen display "Retry" and then press (ENTER) to repeat the measurement.
- If the result still differs from the actual connection status after remeasurement or the error message still appears, it is possible that the speakers are not connected properly. Turn the AVR-790 off, check the speaker connections and repeat the measurement process from the beginning.
- For instance, If the location or direction of a speaker is altered, the Audyssey Auto Setup should be performed again to ensure the correct EQ solution for the new room configuration.

Error Messages

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

Error messages (examples)	Cause	Measures
Caution MultEQ Microphone:None Speaker :None Retry	 Included setup microphone is not connected. Not all speakers could be detected. The front L speaker was not properly detected. 	 Connect the included setup microphone to the SETUP MIC jack on the main unit. Check the speaker connections.
Cancel [ENT] : Retry		
Caution MultEQ •Ambient noise is too high or Level is too low. Retry Cancel	 Too much noise in the room for accurate measurements to be made. Speaker or subwoofer sound is too low for accurate measurements to be made. 	 Either turn off any device generating noise or move it away. Try again when the surroundings are quieter. Check the speaker installation and the direction in which the speakers are facing. Adjust the subwoofer's volume.
[ENT] : Retry	Displayed speaker could not be detected.	Check the connections of the displayed
MultEQ Front R :None Retry Cancel Skip [AT]:Up/Down [4]:CH	 The front R speaker were not properly detected. Only one channel of the surround speakers was detected. Sound was output from the R channel when only one surround back speaker was connected. The surround back, but the surround speaker was not detected. 	speaker.
Caution MultEQ Front L :Phase Retry Cancel Skip [AT]:Up/Down [4]:CH	• Displayed speaker connected with the polarities reversed.	 Check the polarities of the displayed speaker. For some speakers, this error message may be displayed even if the speaker is properly connected. If you are sure that the wiring is correct, press Δ∇ to select "Skip", then press

□ To perform the Audyssey Auto Setup procedure again

Press $\Delta \nabla$ to select "Retry", then press (ENTER).

□ To cancel Audyssey Auto Setup

Use $\Delta \nabla$ to select "Cancel", then select "Yes" using $\triangleleft \triangleright$.

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Making the Optimum Settings for the Connected Speakers Automatically (Audyssey Auto Setup)

Check Audyssey Auto Setup Measurement Results (Parameter Check)

This is displayed after the Audyssey Auto Setup procedure is completed.

С	Press $\Delta \nabla$ to select "Parameter Check", then press $\overline{\mathbb{A}}$ ". "Parameter Check" is displayed on the on-screen display. Use $\Delta \nabla$ to select th press $\overline{\mathbb{A}}$ ".	
	Speaker Config. Check	: Check the speaker configuration
	Distance Check	: Check the distance
	Channel Level Check	: Check the channel level
	Crossover Freq. Check	: Check the crossover frequency
	EQ Check	: Check the equalizer

3 Use $\triangleleft \triangleright$ to switch the display between the different speakers.

 $\mathbf{\Delta} \mathbf{Press} \overset{\mathsf{RETURN}}{\bigcirc}.$

The confirmation screen reappears. Repeat steps 2 and 3.

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Even if the settings are changed after the Audyssey Auto Setup procedure, the Audyssey Auto Setup settings can be restored by selecting "Restore" then pressing $_{\text{ENTER}}$.

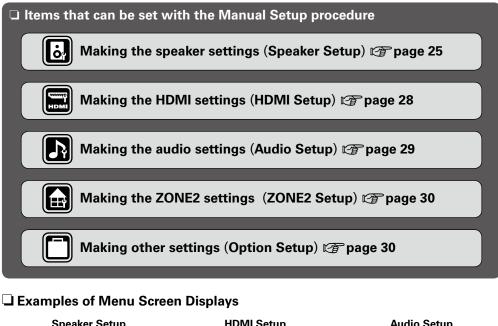


Getting Started

Making detailed settings (Manual Setup)

Use this procedure to change the Audyssey Auto Setup settings or to change the various audio, video and display settings.

The set can be used without changing these settings. Make these settings as necessary. For a description of "Menu map" and operating instructions, see page 18.



Speaker Setup	HDMI Setup	Audio Setup
4-1. Speaker Setup 1. Amp Assign 2. Speaker Config. 3. Bass Setting 4. Distance 5. Channel Level	4-2.HDMI Setup Auto Lipsync : ON HDMI Audio Out : Amp HDMI Control : OFF	4-3. Audio Setup 1. EXT. IN SW Level 2. 2ch Direct/Stereo 3. Auto Surround Mode 4. EQ Customize
6. Crossover Freq. [ENT] : Select [RTN] : Back ZONE2	[RTN] : Back Setup Option	[ENT]:Select [RTN]:Back

ZONEZ Detup	Option Detup
4-4.ZONE2 Setup	4-5. Option Setup
Level Lch : OdB Level Rch : OdB Vol.Display : Relative Vol.limit : OFF Power On Lev: Last Mute Lev. : Full	1. Volume Control 2. Source Delete 3. On-Screen Display 4. Quick Select Name 5. ZONE Rename 6. Display 7. Setup Lock
[RTN] : Back	[ENT]:Select [RTN]:Back



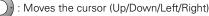
Making the speaker settings (Speaker Setup)

Default settings are underlined.

Use this procedure to set the speakers manually or if you wish to change the settings made with the Audyssey Auto Setup procedure.

Setting items	Setting contents
Amp Assign	Normal : The surround back channel audio signals are output.
Sets the signal output to the	ZONE2 : The ZONE2 audio signals are output.
speaker connected to the	Front Bi-Amp : The bi-amp audio signals are output. Set this for bi-amp
SURR. BACK/AMP ASSIGN	playback of the front speakers.
terminals.	Front Height : The front height channel audio signals are output.
Speaker Config.	Front : Set the front speaker size.
Select speaker configuration	• Large : Use of a large speaker that can adequately play back low
and size.	frequencies.
(bass reproduction capability)	• Small : Use of a small speaker that has inadequate playback capacity for
	low frequencies.
	If "Subwoofer" is set to "No", "Front" is automatically set to "Large".
	Center : Set the presence and size of the center speaker.
	• Large : Use of a large speaker that can adequately play back low
	frequencies.
	• Small : Use of a small speaker that has inadequate playback capacity for
	low frequencies.
	• None : Select when a center speaker is not connected.
NOTE	• "Large" is not displayed when "Front" is set to "Small".
Select "Large" or "Small" not	• Even if "Center" has been set to "Large", when "Front" is set to
according to the physical size	"Small", the "Center" setting automatically switches to "Small".
of the speaker but according	• Subwoofer : Set the presence of a subwoofer.
to the low frequency	• <u>Yes</u> : Use a subwoofer.
reproduction capabilities	• No : Select when a subwooofer is not connected.
based on the frequency set	When "Front" is set to "Small", "Subwoofer" can automatically set
at "Crossover Frequency"	to "Yes".
(🖅 page 27).	

RETURN



See overleaf

Making detailed settings (Manual Setup)

Setting contents

Subwoofer Mode : Select low range signal to be reproduced by

size is set to "Small" to the subwoofer signal and output it.

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• LFE+Main : Add the low frequency signal of all channels to the subwoofer This can be set when signal and output it. "Speaker Config." Play music or a movie source and select the mode offering the "Subwoofer" (B page 25) is set to "Yes" strongest bass. • Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer. **LPF for LFE** : Set the upper limit of the low frequency signals output from the subwoofer • 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz Unit : Set the unit of distance. Distance Set the distance from the . Feet listening position to the • Meters Step : Set the minimum variable width of the distance. speakers. Measure the distance from • 1ft / 0.1ft the listening position to the •0.1m / 0.01m speakers beforehand. • FL (Front L)/ FR (Front R)/ C (Center)/ SW (Subwoofer)/ SL (Surround L)/ SR (Surround R/SBL (Surr. Back L)/SBR (Surr. Back R)/FHL (Front Height L)/ FHR (Front Height R) : Select the speaker you want to set, and set the distance. Set the value that is closest to the measured distance. • 0.0ft ~ 60.0ft / 0.00m ~ 18.00m • The speakers that can be selected differ depending on the "Amp Assign" (@ page 25) and "Speaker Config." (@ page 25) settings. • Default settings : Front/Center/Subwoofer/Front Height : 3.6 meters (12 feet) Surround/Surr. Back : 3.0 meters (10 feet) NOTE Set the difference in the distance between the speakers to less than 6.0 meters (20 feet). "Relocate Speaker" is displayed on the screen if an inappropriate distance is set. Default : Reset all distance settings to factory default. • Yes : Reset to the defaults. • No : Do not reset to the defaults.

playback of low frequency • LFE : Add the low frequency signal of the channel for which the speaker

Surround : Set the presence and size of the Surround speakers. Speaker Config. Select speaker configuration • Large : Use of a large speaker that can adequately play back low frequencies. and size. • Small: Use of a small speaker that has inadequate playback capacity for (bass reproduction capability) low frequencies. • **None**: Select when the surround speakers are not connected. "Large" is not displayed when "Front" is set to "Small". **S.Back**: Set the presence, size and number of surround back speakers. "S.Back" is displayed • Large : Use of a large speaker that can adequately play back low when the "Amp Assign" frequencies. setting (Brage 25) is • Small : Use of a small speaker that has inadequate playback capacity for set to "Normal". low frequencies. • **None :** Select when the surround back speakers are not connected. • 2sp : Use two surround back speakers. • 1sp : Use only one surround back speaker. Surround back audio is output from the surround back L terminal • "Large" is not displayed when "Surround" is set to "Small". • Even if "S.Back" is set to "Large", the "S.Back" setting is automatically switched to "Small" if "Surround" is set to "Small". NOTE Even when the Surround Back Speaker setting is other than "None", sound may not be emitted from the surround back speaker, depending on the playback source. In this case, "Surround Back" setting other than "OFF" (B page 45). Front Height : Set the front height speaker size. Height" "Front is • Large : Use of a large speaker that can adequately play back low displayed when the "Amp frequencies. Assign" setting (B page • Small : Use of a small speaker that has inadequate playback capacity for 25) is set to "Front low frequencies. Height". • None : Select when a front height speaker is not connected. • "Large" is not displayed when "Front" is set to "Small". NOTE • Even if "Front Height" is set to "Large", the "Front Height" setting Select "Large" or "Small" not is automatically switched to "Small" if "Front" is set to "Small". according to the physical size of the speaker but according to the low frequency reproduction capabilities

Setting contents

at "Crossover Frequency" (1) page 27).

based on the frequency set

Setting items



Setting items

signals (subwoofer and LFE).

Make the settings related to subwoofer.

Bass Setting

(ENTER)

RETURN

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			Making detailed settings (Manual Setup)
Setting items	Setting contents	Setting items	Setting contents
Channel Level Set the volume of the test tone to be the same when it is output from each speaker.	 Test Tone Start : Output test tones. FL (Front L)/ C (Center)/ FR (Front R)/ SR (Surround R)/ SBR* (Surround Back R)/ SBL* (Surround Back L)/ SL (Surround L)/ FHL (Front Height L)/ FHR (Front Height R)/ SW (Subwoofer) : Select the speaker. * When the "S.Back" setting (12 page 26) is set to "1sp", "SB" is displayed. -12.0dB ~ +12.0dB (0.0dB) : Adjust the volume. • When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different speakers" (12 page 50). Speakers set to "None" in the "Speaker Config." (12 page 25) settings are not displayed. • When < • If output of the test tones begins while the muting mode is set, the muting mode is canceled. Default : Reset all channel level settings to factory default. Yes : Reset to the defaults. No : Do not reset to the defaults. 	Crossover Frequency	 Always set the crossover frequency to "80 Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency. For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers. The speakers that can be set when "Advanced" is selected differ according to the "Bass Setting" setting (127 page 26). When "LFE" is selected, speakers set to "Small" at "Speaker Config." (127 page 25) can be set. When "LFE+Main" is selected, speakers can be set regardless of the speaker size setting.
Crossover Frequency Outputs at below set frequency, each speaker's bass signal output from the subwoofer. Set this according to the low frequency reproduction capabilities of the speakers you are using. This can be set when "Speaker Config." – "Subwoofer" (127 page 25) is set to "Yes" or "No."	250Hz • Advanced : Set the low frequency signals to be output from the signals		





Making detailed settings (Manual Setup)

Making the HDMI settings (HDMI Setup)

Default settings are underlined.

Make settings for HDMI video/audio output.

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Setting items	Setting contents
Auto Lip Sync Automatic compensation for timing shift in audio and video output.	<u>ON</u> : Compensated. OFF : Not compensated.
HDMI Audio Out Select HDMI audio output device.	Amp : Use speakers connected to AVR-790 for audio playback. TV : Use speakers of TV for audio playback. NOTE When the HDMI control function is operating, the setting of audio playback in the connected TV takes priority (@ page 49 "Controlling HDMI- compatible devices from the AVR-790 (HDMI Control Function)").
HDMI Control External devices can be controlled from the AVR- 790 and the AVR-790 can be controlled from external devices.	 ON : Use the HDMI control function. OFF : Do not use the HDMI control function. Please consult the operating instructions for each connected device to check the settings. For details on the HDMI control function, see "Controlling HDMI-compatible devices from the AVR-790 (HDMI Control Function)"
NOTE The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control.	 Page 49). When "Control" is set to "ON", it consumes more standby power. When not using this unit for a long period, we recommend that you press of to turn off (■OFF) the power. When the "HDMI Control" setting has been changed, always turn off the power to the connecting devices afterwards and then turn back on. The "HDMI Control" does not work when the power to the equipment is off. When "HDMI Control" is set to "ON", power is supplied constantly to the AC outlet (UNSWITCHED).
Standby Source Set the HDMI connector for HDMI signal input during standby.	Last : Standby with last used input source during power on. HDMI1 / HDMI2 / HDMI3 / HDMI4 : The standby mode is set at the input source assigned to the respective.
This can be set when "HDMI Control" is set to "ON".	

Setting items	Setting contents			
The power of the AVR-790				
This can be set when "HDMI Control" is set to "ON".	• For details on the HDMI control function, see "HDMI Control Function" (1277 page 49).			

RETURN

: Return to previous menu

(ENTER) : Decision the setting

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Making the audio settings (Audio Setup)

Default settings are underlined.

Make settings for audio playback.

Setting items	Setting contents
EXT.IN SW Level	+15dB : This is the recommended level.
Set the playback level of the	+10dB / +5dB / 0dB : Select the level according to the player being used.
analog subwoofer signals	
input from the external input	
terminals (EXT.IN).	
2ch DIRECT/STEREO	Setting : Select the method for setting the speakers used in the 2-channel
Make speaker settings for 2-	direct and stereo playback modes.
channel mode playback.	• Basic : The settings at "Speaker Setup" (B page 25) are applied.
	• Custom : Make separate settings for 2-channel mode.
	Front : Set the front speaker size.
	• Large : Use of a large speaker that can adequately play back low
	frequencies.
	 Small : Use of a small speaker that has inadequate playback capacity
	for low frequencies.
	SW : Set the presence of a subwoofer.
	• <u>Yes</u> : Use a subwoofer.
	• No : Select when a subwoofer is not connected.
	 SW Mode : Select low range signal to be reproduced by subwoofer. LFE : Add the low frequency signal of the channel for which the speaker
	size is set to "Small" to the subwoofer signal and output it.
	• LFE+Main : Add the low frequency signal of all channels to the
	subwoofer signal and output it.
	Crossover : Outputs at below set frequency, each speaker's bass signal
	output from the subwoofer.
	 40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz
	/ 250Hz
	Distance FL / Distance FR : Select the speaker you want to set, and set
	the CH Level. Set the value that is closest to the measured distance.
	 0.0ft ~ 60.0ft (<u>12.0ft</u>) / 0.00m ~ 18.00m (<u>3.6m</u>)
	CH Level FL/ CH Level FL FR : Select the speaker you want to set, and
	set the CH Level. Adjust the level of each channel.

• -12.0dB ~ +12.0dB(0.0dB)

Setting items	Setting contents
Auto Surround Mode	ON : Memorize settings. Most recently stored surround mode is
Make setting for memorizing	automatically selected.
surround mode setting for	OFF : Do not memorize settings. Surround mode does not change
each input signal type.	according to input signal.
	 The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals listed below. Analog and PCM 2-channel signals Dolby Digital and DTS 2-channel signals Dolby Digital and DTS multi-channel signals Multi-channel signals other than Dolby Digital and DTS (PCM, etc.)
	When playing in the PURE DIRECT mode, the surround mode does not
FO Oustania	change even if the input signal is changed.
EQ Customize	Audyssey Byp. L/R / Audyssey Flat / Manual
Set so that unused equalizer	
settings are not displayed when \bigcirc is used.	Not Used NOTE
	 Set so that the "Audyssey Byp. L/R" and "Audyssey Flat" settings can be made when the Audyssey Auto Satur precedure is performed.
	made when the Audyssey Auto Setup procedure is performed.
	• Equalizer settings for which "Not Used" is set with the Quick Select
	function cannot be stored and called out.





Making detailed settings (Manual Setup)



Making the ZONE2 settings (ZONE2 Setup)

Default settings are underlined.

Make settings for audio playback in a ZONE2 system.

"ZONE2 Setup" is displayed when ZONE2 is selected with "Amp Assign" (1 page 25).

Setting items	Setting contents
Level Lch Adjust the left channel output level.	–12dB ~ +12dB (<u>0dB</u>)
Level Rch Adjust the right channel output level.	–12dB ~ +12dB (<u>0dB</u>)
Volume Display Set the ZONE2 volume display method.	<u>Relative</u> : The volume is displayed within the range of – – –dB (Minimum), –80 dB ~ +18 dB. Absolute : The volume is displayed within the range of 0, 1 ~ 99.
Vol.Limit Make a setting for maximum volume.	OFF : Do not set a maximum volume.
	Last : Use the memorized setting from the last session. : Always use the muting on condition when power is turned on. -80dB ~ +18dB (99) : The volume is adjusted to the set level.
Mute Level Set the amount of attenuation when muting is on.	Full : The sound is cut off entirely. -40dB : The sound is attenuated by 40 dB. -20dB : The sound is attenuated by 20 dB.

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• The volume is displayed using the display method set at "Volume Display" (@ page 30).

• Set the main volume at "Volume Control" (12 page 30).



Making other settings (Option Setup)

Default settings are underlined.

Setting items	Setting contents
Volume Control Set the MAIN ZONE volume setting.	 Volume Display : Set the volume display method. <u>Relative</u> : The volume is displayed within the range ofdB (Minimum), -80 dB ~ +18 dB. Absolute : The volume is displayed within the range of 0, 1 ~ 99. Vol.Limit : Make a setting for maximum volume. <u>OFF</u> : Do not set a maximum volume. -20dB(61) / -10dB(71) / 0dB(81)
	 Power On Level : This sets the volume set when the MAIN ZONE's power is turned on. Last : Use the memorized setting from the last session. : Always use the muting on condition when power is turned on. -80dB(1) ~ +18dB(99) : The volume is adjusted to the set level. Mute Level : This sets the amount of attenuation of the volume when the mute mode is set in the MAIN ZONE.
	 Full : The sound is cut off entirely. -40dB : The sound is attenuated by 40 dB. -20dB : The sound is attenuated by 20 dB.
Source Delete Remove input sources that are not used from the display.	 TUNER / CD / DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX / SIRIUS: Select the sources you do not want to use. <u>ON</u>: Use this source. Delete : Do not use this source. NOTE The currently selected input source cannot be set.
	• Input sources set to "Delete" cannot be selected using
On-Screen Display Make the settings related to displays on the TV screen.	 Screensaver : Make screensaver settings. <u>ON</u>: The screen switches to the screensaver if no operation is performed for approximately 3 minutes while a menu is displayed or while an iPod screen is displayed. When you press △∇⊲ ▷, the screen saver is cancelled and the screen before that screen saver started is displayed. OFF: Turn the screensaver function off.
	 Text : The mode name is displayed when the operation for switching the surround mode, input mode, etc., is performed. <u>ON</u> : Turn display on. OFF : Turn display off.
	 Master Volume : Master volume display during adjustment. <u>Bottom</u> : Displayed at the bottom of the screen. Top : Displayed at the top of the screen. OFF : Turn display off.

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Setting items	Setting contents	Setting items	Setting contents			
	Tuner Information : This sets the time the on-screen display is displayed	Quick Select Name	Default : The changed display names are reset to the defaults.			
	when a tuner operation is performed.		• Yes : Reset to the defaults.			
	• Always : Show display continuously.		• <u>No</u> : Do not reset to the defaults.			
	• <u>30sec</u> : Show display for 30 seconds after operation.	Zone Rename	1. Use $\Delta \nabla$ to select the zone name you want to change, then preserves the select the zone name you want to change the preserves the preserves of the preserv			
	 10sec : Show display for 10 seconds after operation. OFF : Turn display off. 	Rename the display names				
		of the different zones as	MAIN ZONE / ZONE2			
	iPod Information : This sets the time the on-screen display is displayed when an iPod operation is performed.	desired.	2. Use $\triangleleft \triangleright$ to set the cursor to the character you want to change.			
	• Always : Show display continuously.		3. Use $\Delta abla$ to change the character, then press (ENTER).			
	• <u>30sec</u> : Show display for 30 seconds after operation.		Up to 10 characters can be input.			
	• 10sec : Show display for 10 seconds after operation.		 The input character type can be switched by pressing <pre>SEARCH</pre> while to			
	• OFF : Turn display off.		display name is being changed.			
	Rename Label : Change the display name of the selected "Quick Select"		• The types of characters that can be input are as shown below.			
Change the Quick Select			[Capital letters] ABCDEFGHIJKLMNOPQRSTUVWXYZ			
name.	1. Use $ riangle \nabla$ to select the name of the Quick Select setting you want		[Small letters] abcdefghijklmnopqrstuvwxyz [Symbols] '() ※ + / : ; < = > ? []			
	to change, then press (ME) . 2. Use $\triangleleft \triangleright$ to set the cursor to the character you want to change.		[Symbols] () * + / . , < = > ? [] [Numbers] 0123456789 (space)			
	3. Use $\Delta \nabla$ to change the character, then press (ENTR).					
	• Up to 16 characters can be input.		4. Repeat steps 2 and 3 to change the display name.			
	 The input character type can be switched by pressing while the 	Display	• Bright : Normal display brightness.			
	display name is being changed.	the receiver.	 Dim : Reduced display brightness. Dark : Very low display brightness. 			
	• The types of characters that can be input are as shown below.	the receiver.	• OFF : Turns the display off.			
	[Capital letters] ABCDEFGHIJKLMNOPQRSTUVWXYZ [Small letters] abcdefghijkImnopqrstuvwxyz		Switching is also possible by pressing an the main unit.			
	[Symbols] $'() \approx + / :; < = > ?[]$	Setup Lock	• ON : Turn protection on.			
	[Numbers] 0123456789 (space)	Protect settings from inadvertent change.	• OFF : Turn protection off.			
		inadvertent change.	When "Setup Lock" is set to "ON", the settings listed below c			
	4. Repeat steps 2 and 3 to change the display name.		no longer be changed. Also, "SETUP LOCKED!" is displayed if y			
	Template : The display name can be changed by selecting "Operation" and		attempt to operate related settings.			
	"Device Name" from the previously set templates.		RESTORER Dynamic Volume			
	1. Use $\Delta abla$ to select the name of the Quick Select setting you want		MultEQ Channel Level			
	to change, then press ENTER.		· Dynamic EQ · Audio Delay			
	2. Use $\Delta \nabla$ to select "Template", then press $\overset{\text{(HTER)}}{\longrightarrow}$.					
	3. Use $\Delta abla$ to select "Operation", then press (with).					
	Watch / Listen to / Play / For					
	4. Use $\Delta \nabla \triangleleft \triangleright$ to select "Device Name ", then press (NTE).					
	DVD / Blu-Ray / HDP / TV / Cable TV / Satellite / VCR / DVR / iPod /					
	V.AUX / LD / Movie (When "Operation" is selected to "Watch".)					
	• CD / TUNER / SIRIUS / iPod / MD / TAPE / MUSIC (When					
	"Operation" is selected to "Listen to".)					
	 PC / Game (When "Operation" is selected to "Play".) 					
	Father / Mother / Son / Daughter / Brother / Sister / Grandfather					
	/ Grandmother / Me (When "Operation" is selected to "For".)					

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: Return to previous menu



Making the input settings (Input Setup)

Make the settings related to the currently selected input source. Before displaying the menu screen, press to switch to the input source to be set. The items that can be set differ according to the selected input source. The set can be used without changing these settings. Make these settings as necessary. For a description of "Menu map" and operating instructions, see page 18.

u Items that can be set with the Input Setup procedure

Changing the Input Sources Assigned to the Input Terminals (Assign)

Making the video settings (Video) 12 page 34

Changing the Input Source's Input Mode and Decoding mode (Input mode) @ page 34

Changing the Input Source's Display Name (Rename) 12 page 35

Correcting the Input Source's Playback Level (Source Level)

Setting the iPod Playback Mode (iPod Playback Mode) 10 page 35

Presetting Radio Stations (Auto Preset) 127 page 36

Setting the Preset Channels to be Skipped (Preset Skip) 1 page 36

Assign Name to a Preset Memory (Preset Name) 2 page 36

Setting Radio Reception Restrictions (Parental Lock) @ page 37

Check the SIRIUS Radio Reception Sensitivity (Antenna Aiming)

Examples of Menu Scre Assign	en Displays Video	lawy Mada
		Input Mode
(5-1-1.lnput Assign HDMI Digi Comp	(5-2. Video Video Select:∢Source ►	5-3. Input Mode
DVD 1 C1 1 HDP 2	i/p Scaler : Anlg/HDMI Resolution A: Auto	Input Mode :∢Auto ▶ Decode Mode : Auto
TV 01 SAT/CBL 3 C2	Resolution H: Auto Progre. Mode : Auto	
VCR/iPod DVR 4 02 2	Aspect : Full	
↓ [ENT]∶Select [RTN]∶Back	[RTN] : Back	[RTN] : Back
Rename	Source Level	iPod Playback Mode
5-4. Rename	5-5. Source Level	5-6. iPod Playback Mode
DVD :∢DVD ►	Analog Input :∢ OdB Digital Input : OdB	Repeat Mode :∢ One ► Shuffle Mode : OFF
Defaulut		
[▲▼]:Up/Down [↓▶]:Rename [RTN]:Back	[RTN] : Back	[RTN] : Back /
Auto Preset	Preset Skip	Preset Name
5-1. Auto Preset	5-2.Preset Skip Block :∢A ▶	5-3. Preset Name Block:◀ A ▶
Auto Tuning	A Block Presets: ON A1 FM 87.50MHz : ON	A1FM 87.50MHz: A2FM 89.10MHz:
Preset Station Memory Storing Preset Memory	A2 FM 89.10MHz : ON A3 FM 98.10MHz : ON	A3FM 98.10MHz: A4FM107.90MHz:
Start	A4 FM107.90MHz : ON A5 FM 90.10MHz : ON A6 FM 90.10MHz : ON	A5FM 90.10MHz: A6FM 90.10MHz: A7FM 90.10MHz:
[ENT]:Start [RTN]:Back	A7 FM 90. 10MHz : ON J A8 FM 90. 10MHz : ON	L A8FM 90.10MHz: [ENT]:Select [RTN]:Back
		na Aiming
5-2. Parenta	ul Lock (5-3. Antenna	a Aiming
1. Lock Sett 2. Edit Lock	Code Satell	
	MIN	MAX
	Terres MIN	trial :0 MAX
[ENT] : Select	: [RTN] : Back	





(enter)

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Making the input settings (Input Setup)

Changing the Input Sources Assigned to the Input Terminals (Assign)

Default settings are underlined.

Setting items	Setting contents							
Input Assign (HDMI) Assign input sources to input connectors.	HDMI : The sources are a • HDMI1 / H • None : Do input sourc % Upon purc below.	assigned f DMI2 / H not assig e.	to the HI DMI3 / n an HD	DMI inp HDMI4 MI inpu	ut termina It terminal	to the c	own belc currently	selected
	Input source	DVD	HDP	TV	SAT/CBL	VCR	DVR	V.AUX
	Default setting	HDMI1	HDMI2	None	HDMI3	None	HDMI4	None
	input con "Digital" • When the	along wi nectors a AVR-790 compatib e output t signals ir	th the x ssigned,) and TV le with l o the m nput fror	ideo si set me are cor HDMI a onitor.	gnal. To us enu "Input nnected w udio signa	se with Mode" ith an H I playbac	the digi (I pag DMI cab ck, only t	tal audio ge 34) to lle, if the he video
	NOTE When "HDN at the "HDM					nnot be	assignec	I to "TV"
Input Assign (Digital) Assign input sources to input	Digital : The	DVD		V SA	T/CBL VC	R DVR	N.AUX	(CD

• None : Do not assign a digital input terminal to the currently selected input source.

* Upon purchase, the settings of the different input sources are as shown below.

Input source	DVD	HDP	Τν	SAT/CBL	VCR
Default setting	COAX1	None	OPT1	COAX2	None
Input source	DVR	V.AUX	CD	SIRIUS	
Default setting	OPT2	None	None	None	

Setting items	Setting contents									
Input Assign (Component) Assign input sources to input connectors.	 Component : The DVD HDP TV SAT/CBL VCR DVR V.AUX input sources are assigned to the component video input terminals as shown below. COMP1 (Component video 1 input terminal) / COMP2 (Component video 2 input terminal) None : Do not assign the component video input terminals to the currently selected input source. * Upon purchase, the settings of the different input sources are as shown below. 									
	Input source Default setting	DVD COMP1	HDP None	TV None	SAT/CBL	VCR None	DVR COMP2	V.AUX None		
iPod Dock Change the input source to which the control dock for iPod is assigned.	I DVR II VAIIX II CD Linnut sources									
	 With the default settings, the control dock for iPod can be used connected to the VCR (iPod) connector. Even if "iPod Dock" is set to "Assign", if AVR-790 and control dock for iPod are not connected, the input is used as the normal input source. 									

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Getting Started

Connections

Making the video settings (Video)

Default settings are underlined.

The items that can be set depend on the input source and the "Assign" setting.

Setting items	Setting contents
while listening to audio	Source : Play the picture and sound of the input source. DVD / HDP / TV / SAT/CBL / VCR / DVR / V.AUX : Select video input source to view. This can be set for individual input sources.
signal.	 NOTE It is not possible to select HDMI input signals. When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output. Input sources for which "Delete" is selected at "Source Delete" (I page 30) cannot be selected. Input sources for which "None" is selected at "Assign" (I page 33) cannot be selected.
	 This can also be set by pressing O. To cancel, press O to select "Source".
i/p Scaler The input source's resolution is converted to the resolution set at "Resolution".	This can be set to the DVD HDP TV SAT/CBL VCR DVR V.AUX input sources. OFF : Do not use i/p scaler function. <u>Analog</u> : Analog signals are converted to HDMI signals. Analog and HDMI : Both analog signals and HDMI signals are converted to the desired HDMI resolution.
Resolution Set the output resolution. Resolution A : Analog Video Resolution H : HDMI	This can be set when the input source is set to DVD HDP TV SAT/CBL VCR DVR V.AUX , and when "i/p Scaler" is set to anything other than "OFF". AUTO : Detect monitor panel resolution and automatically set output resolution. 480p/576p / 1080i / 720p / 1080p : Select the output resolution.
Progressive Mode Select optimum progressive mode for video material.	This can be set when the input source is set to DVD HDP TV SAT/CBL VCR DVR V.AUX , and when "i/p Scaler" is set to anything other than "OFF". AUTO : The video material is automatically detected and the appropriate mode is set. Video1 : Select mode suitable for video playback. Video2 : Select mode suitable for video and 30-frame film material playback.
Aspect Set the aspect ratio of the video signal output from the HDMI terminal.	This can be set when the input source is set to DVD HDP TV SAT/CBL VCR DVR V.AUX , and when "i/p Scaler" is set to anything other than "OFF". Normal : Output at 4:3 aspect ratio. Full : Output at 16:9 aspect ratio.

Changing the Input Source's Input Mode and Decoding mode (Input Mode)

Default settings are underlined.

The selectable input modes depend on the input source and "Assign" setting (r page 33 "Changing the input sources assigned to the input terminals").

Auto : Automa HDMI : Play or Digital : Play o	nly signals f				
Analog : Play EXT. IN : Play	only signals only signals	from digita from analc from EXT.	l input. og input. IN input.	U	
* Upon purcha	ase, the set	tings of the	different ir	put sources	are as showr
Input source	DVD	HDP	TV	SAT/CBL	VCR
Default setting	Auto	HDMI	Digital	Auto	Analog
Input source	DVR	V.AUX	CD	TUNER	
Default setting	Auto	Analog	Analog	Analog	
 input tern The "Dig input tern When a the displ input cor The surro IN". This can Each tim 	minals are a gital" settin minals are a digital signa lay. If the " nnector ass ound mode also be set e you press	assigned at gs are mad assigned at al is properly DEG," indica ignment an cannot be by pressing the button	"Assign" (# e for input "Assign" (# y input, the ator does r d the conn set if the i g O or , the input	page 33) sources fo page 33) e "DG." indi not light, ch ections. nput mode mode displa	r which digita cator lights or eck the digita is set to "EXT ay will change.
	below. Input source Default setting Input source Default setting Input er The "HE input ter The "Dig input ter When a the disp input cou The surre IN" This can Each tim	below. Input source DVD Default setting Auto Input source DVR Default setting Auto Imput source DVR Default setting Auto Imput source DVR Default setting Auto Imput setting Imput setting Imput setti	below. Input source DVD HDP Default setting Auto HDMI Input source DVR V.AUX Default setting Auto Analog Imput setting Auto Analog Imput setting OPA Auto Auto Analog Imput setting Auto Analog Imput setting OPA Settings are made input terminals are assigned at The "Digital" settings are made input terminals are assigned at OPA The "Digital" settings are made input terminals are assigned at OPA The "Digital" settings are made input connector assignment an OPA The surround mode cannot be IN" OPA This can also be set by pressing Each time you press the button	below. Input source DVD HDP TV Default setting Auto HDMI Digital Input source DVR V.AUX CD Default setting Auto Analog Analog Øefault setting Auto Analog Analog Øefault input terminals are assigned at "Assign" (fr 0 When a digital signal is properly input, the the display. If the "DIG." indicator does r input connector assignment and the connous of the surround mode cannot be set if the i IN". Other Surround mode set by pressing Order or Each time you press the button, the input	Input source DVD HDP TV SAT/CBL Default setting Auto HDMI Digital Auto Input source DVR V.AUX CD TUNER Default setting Auto Analog Analog Analog Default setting Auto Analog Analog Analog Imput setting The "HDMI" settings are made for input sources for input terminals are assigned at "Assign" (Imput page 33) When a digital signal is properly input, the "DEG" indit the display. If the "DEG" indicator does not light, ch input connector assignment and the connections. The surround mode cannot be set if the input mode IN". The



RETURN

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Setting items	Setting contents	
Decode Mode	Auto : Detect type of digital input signal and decode and play	
Set the input source's	automatically.	
decoding mode.	PCM : Decode and play only PCM input signals.	
	DTS : Decode and play only DTS input signals.	
	 This can be set for input sources for which "HDMI" or "Digital" is assigned at "Assign" (12 page 33). 	
	Normally set this to "Auto".	

Changing the Input Source's Display Name (Rename) Default settings are underlined.

Use this procedure to change the display name of the currently selected input source.

Setting items	Setting contents
Rename Change the input source's display name to the desired name.	 Use < ▷ to set the cursor to the character you want to change. Use △ ♡ to change the character, then press on the input character scan be input. The input character type can be switched by pressing ^{SEARCH} while the display name is being changed. The types of characters that can be input are as shown below. [Capital letters] ABCDEFGHIJKLMNOPQRSTUVWXYZ [Small letters] abcdefghijkImnopqrstuvwxyz [Symbols] '() % + / :; < = > ? [] [Numbers] 0123456789 (space)
Default The changed display names are reset to the defaults.	Yes : Reset to the defaults. No : Do not reset to the defaults.

Correcting the Input Source's Playback Level (Source Level)

Default settings are underlined.

Use this procedure to correct the playback level of the currently selected input source's audio input. Set this if there are differences in the input volume levels between the different sources. The analog input level and digital input level can be corrected separately.

Setting items	Setting contents
Source Level (Analog)	–12dB ~ +12dB (<u>0dB</u>)
Correct the playback level of	
the analog audio input.	
Source Level (Digital)	–12dB ~ +12dB (<u>0dB</u>)
Correct the playback level of	
the digital audio input.	

Setting the iPod	Playback Mode (iPod Playback Mode) Default settings are underlined.
This can be selected for inp 33) setting.	out sources for which "Assign" is assigned at the "iPod Dock" (r page
Setting items	Setting contents
	Setting contents All : Repeat all songs.
Repeat	č

mode.	<u>or</u> : cancer repeat mode.
Shuffle	□ When DENON control dock for iPod ASD-1R or ASD-11R is
Make settings for shuffle mode.	connected Songs : Shuffle all songs. Albums : Shuffle songs from current album only. OFF : Cancel shuffle mode.





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2. Use $\triangleleft \triangleright$ to set the cursor to the character you want to change.

 \bullet The input character type can be switched by pressing $\overset{\text{SEARCH}}{\bigcirc}$ while the

• The types of characters that can be input are as shown below. [Capital letters] ABCDEFGHIJKLMNOPQRSTUVWXYZ [Small letters] abcdefghijklmnopqrstuvwxyz '() ** + - . / :; < = > ? []

3. Use $\Delta
abla$ to change the character, then press (ENTER).

0123456789 (space) 4. Repeat steps 2 and 3 to change the display name.

• Up to 8 characters can be input.

display name is being changed.



(ENTER)

Assign Name to a Preset Memory (Preset Name) Default settings are underlined. Setting items Setting contents This can be set when the source is set to **TUNER** reset 1. Use $\Delta \nabla$ to select the preset channel name you want to change,

then press (ENTER).

[Symbols] [Numbers]

Use the auto preset function to program radio stations.	This can be set when the source is set to TUNER . Start : Start the auto preset process. If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.	Preset Name Assign name memory.	to a
Setting the Prese	t Channels to be Skipped (Preset Skip) <u>Default settings are underlined.</u>		
Setting the Prese	•••••••••••••••••••••••••••••••••••••••		

If you set "Block Presets" to "Skip", you can skip the preset memory

Presetting Radio Stations (Auto Preset)

blocks (A to G).

Default settings are underlined.

Setting items	Setting contents
Auto Preset Use the auto preset function to program radio stations.	This can be set when the source is set to TUNER . Start : Start the auto preset process. If an FM station cannot be preset automatically, select the desired stati by tuning it in manually, then preset it manually.
	· · · · · · · · · · · · · · · · · · ·

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Co	Setting items
	Lock Setting Set the channel radio reception limits.
Settings	
Playback	

Setting Radio Reception Restrictions (Parental Lock)

1. Press (ENTER)

password.

(🕼 page 41).

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- **2.** Input "Current Code" (4 digits) using $\Delta \nabla \triangleleft \triangleright$, and press (ENTER).
- **3.** Input "New Code" (4 digits) using $\Delta \nabla \triangleleft \triangleright$, and press (A = A = A)

4. Input "Repeat Code" (4 digits) again using $\Delta \nabla \triangleleft \triangleright$, and press (ENTER). If the correct password is input, "Completed" is displayed, and the new password is modified.

Setting contents

2. Using $\overline{\Delta \nabla \triangleleft} \triangleright$, input the password (4 digits number) and press **3.** Select channel by pressing $\Delta \nabla$, and set the lock by pressing $\triangleleft \triangleright$.

* When a Parental Locked channel is tuned, "Code : []" is displayed,

• If the password is wrong, "Incorrect Code" is displayed. Input the correct

• While listening to the channel being played, you can also set parental lock

This can be set when the source is set to SIRIUS

• Unlock : Do not lock selected channel(s). • Lock : Lock selected channel(s).

then input the password.

• The default password is "0000".

Default settings are underlined.

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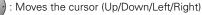
- If the "Current Code" is incorrectly input, "Incorrect Code" is displayed, and proceed again from step 1.
- If the password input is 3 digits or less, "Enter 4-digit" is displayed, and input again with a 4 digit password.
- If the new password is not correctly input, "Code don't Match" is displayed and the password does not change.
- The password cannot be cleared even if the operation to reset the unit is performed. We recommend writing down the password so as not to forget it.

Check the SIRIUS Radio Reception Sensitivity (Antenna Aiming)

Default settings are underlined.

Setting items		Setting contents		
Antenna Aiming Check the SIRIUS reception sensitivity.	radio	Satellite : Indica	when the source is set to SIRIUS . te satellite signal strength. cate terrestrial signal strength.	
		SIRIUS Antenna	1	
		Display	Condition	
			Signal strength is excellent	
			Signal strength is good	
			Signal strength is weak	
			No signal	







Playback

(CP page 40)

(CP page 43)

NOTE

Control Unit").



Settings

Playback

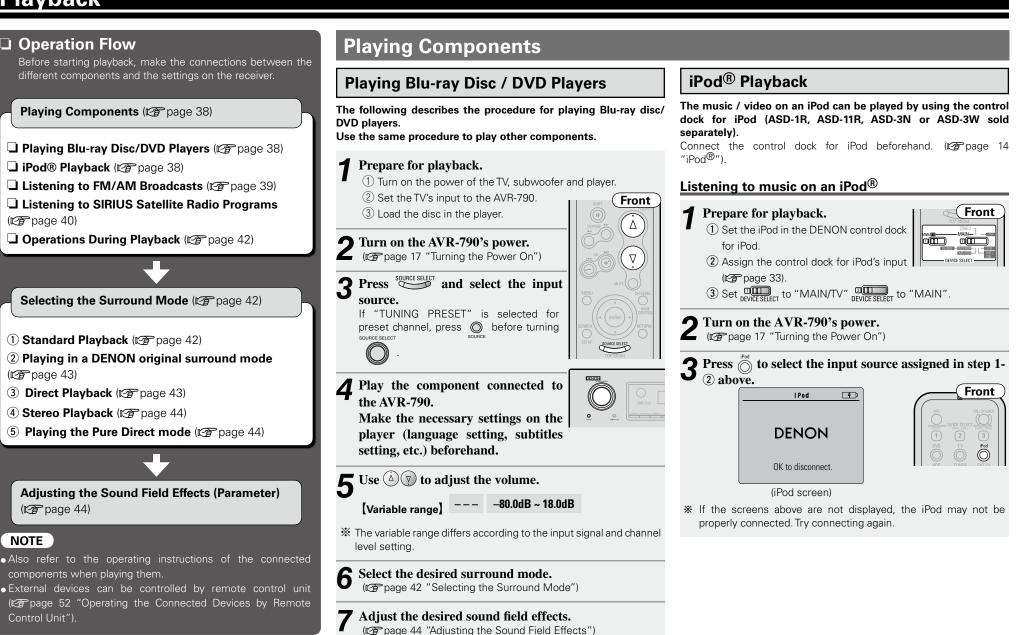
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See overleaf



 Press O and hold it down for a 2 seconds or more to select the display mode. There are two modes for display the contents recorded on the iPod. Browse mode : Displayed on the TV screen. Remote mode : Displayed on the iPod's screen. 						
Displa	Browse mode	Remote mode				
Playable	Audio file	0	0			
files	○*1	○*2				
Active buttons	0					
buttons	×	0				
 *1 : When using an ASD-11R, ASD-3N or ASD-3W control dock fo iPod. *2 : Video may not be output, depending on the combination o ASD-1R or ASD-11R and iPod. 5 Use △∇ to select the menu, then press will or ▷ to select the music or □ 						
video file Press Press Playback st						
7 Use 💩 🔻	volume.	SEARCH SELECT				

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

- * The variable range differs according to the input signal and channel level setting.
- Select the desired surround mode.

(😰 page 42 "Selecting the Surround Mode")

Q Adjust the desired sound field effects.

(
 page 44 "Adjusting the sound Field Effects")

🖵 To stop

During playback, either press and hold ere or press

- During playback, press and or . Press again to resume playback.
- □ To cue to the beginning of a track During playback, Ö either press (to cue to the current track) or Ö (to cue to the next
 - track)
- Repeat playback and shuffle playback

"iPod Playback Mode" (1277 page 35)

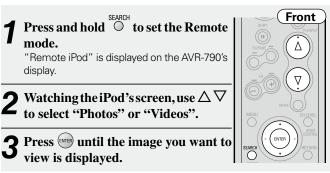
- Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound.
- The default setting is "Mode3" (CP page 48).
- To check the name of the title, the artist or the album when playing in browse mode, press
- The time (default : 30 sec) for which the onscreen display are displayed can be set at menu "iPod Information" (☞ page 31). Press △▽◁▷ to return to the original screen.
- Press ^{OFF} and set the AVR-790's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the menu "iPod dock" is not assigned before disconnecting the iPod.

NOTE

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

Viewing Still Pictures or Videos on the iPod®

- Photo and video data on the iPod can be viewed on the monitor. Only for iPod equipped with slideshow or video functions. (When using an ASD-1R or ASD-11R)
- Video may not be output, depending on the combination of ASD-1R or ASD-11R and iPod.



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

IPod

Front

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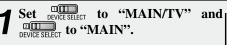
Front

Front

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

Listening to FM/AM Broadcasts

Basic Operation





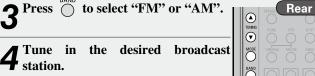
Press \bigcirc to select "TUNER".





Remote Control





1)To tune in automatically (Auto Tuning)

Press of to light the "AUTO" indicator on the display, then use

 \bigcirc TUNING to select the station you want to hear.

2 To tune in manually (Manual Tuning)

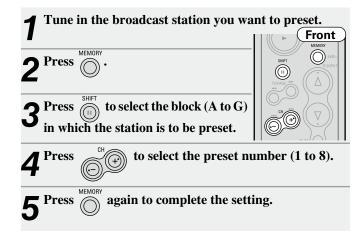
Press \bigcirc^{MUUE} to turn off the display's "AUTO" indicator, then use \bigcirc^{MUUE} to select the station you want to hear.

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- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold frequencies continuously.
- The time (default : 30 sec) for which the on-screen display are displayed can be set at "On-Screen Display" (127) page 31).

Presetting Radio Stations (Preset Memory)

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



A

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

• Stations can be preset automatically at menu "Auto Preset" (1277 page 36).

NOTE

Preset stations are erased by overwriting them.

Listening to Preset Stations

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

2 Press (1) to select the desired preset channel (1)

Default settings

	J-
	Auto tuner presets
A1 ~ A8	87.5 / 89.1 / 98.1 / 107.9 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 ~ B8	520 / 600 / 1000 / 1400 / 1500 / 1710 kHz, 90.1 / 90.1 MHz
C1 ~ C8	90.1 MHz
D1 ~ D8	90.1 MHz
E1 ~ E8	90.1 MHz
F1 ~ F8	90.1 MHz
G1 ~ G8	90.1 MHz

Listening to SIRIUS Satellite Radio Programs

About SIRIUS XM Radio

To listen to Satellite Radio, you'll need to connect either a SIRIUS or XM Satellite Radio tuner (sold separately) to your satellite-ready receiver. Satellite Radio is available to residents of the US (except Alaska and Hawaii) and Canada.

Satellite Radio delivers a variety of commercial-free music from categories ranging from Pop, Rock, Country, R&B, Dance, Jazz, Classical and many more plus coverage of all the top professional and college sports including play by play games from select leagues and teams. Additional programming includes expert sports talk, uncensored entertainment, comedy, family programming, local traffic and weather and news from your most trusted sources.

Whether you purchase a SIRIUS or XM tuner, you'll need to activate and subscribe to begin enjoying the service. Easy to follow installation and setup instructions are provided with the satellite tuners. Whichever service you choose, there are a variety of programming packages available, including the option of adding "The Best of SIRIUS" programming to your XM tuner or "The Best of XM" programming to your SIRIUS tuner, enabling you to enjoy the most popular programming among both services. The "Best of" packages are not available to SIRIUS or XM Canada subscribers at this time. Playing Components

Family friendly packages are also available to restrict channels featuring content that may be inappropriate for children.

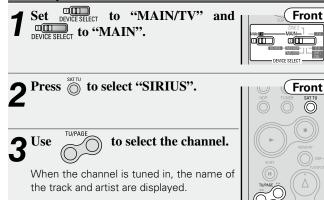
To subscribe to XM, U.S. customers should visit xmradio.com or call 1-800-XMRADIO (1-800-967-2346); Canadian customers should visit xmradio.ca or call XM Listener Care at 1-877-GETXMSR (1-877-438-9677).

To subscribe to SIRIUS, U.S. and Canadian customers can call 1-888-539-SIRI (1-888-539-7474) or visit sirius.com (US) or siriuscanada.ca (Canada).

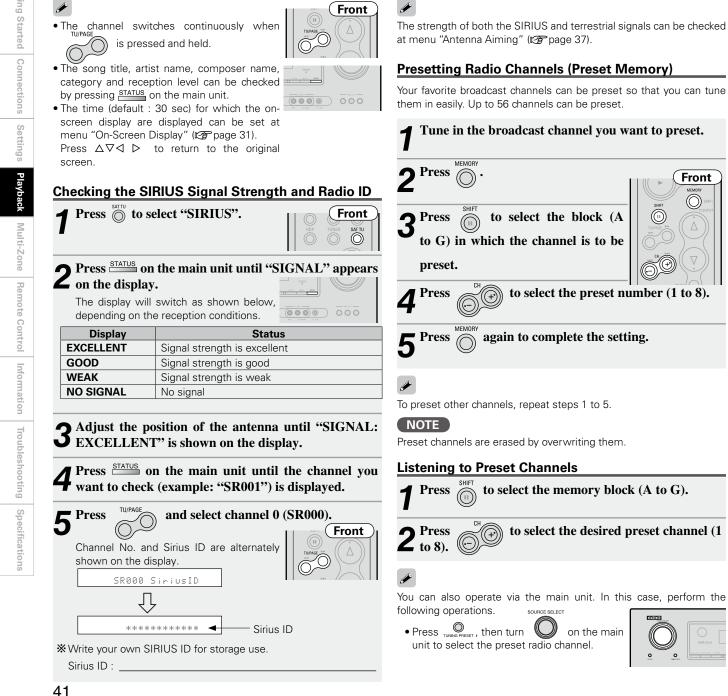
SIRIUS XM Radio Legal

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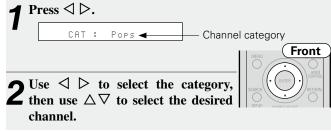
Basic Operation



	See	overleaf
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Playing Components



Front

- "UPDATING" is displayed while the encoding code is being updated.
- "SIRIUS UPDATING" is displayed when updating SIRIUS tuner firmware
- Refer to "Troubleshooting" "SIRIUS Satellite Radio" regarding other messages (P page 64).

Parental Lock

Searching Categories



▲ Press (ENTER) for at least 3 seconds. "Code: []" is displayed.



3 Enter the 4-digit lock code using $\Delta \nabla \triangleleft \triangleright$.

When you enter the correct code, the corresponding channel is locked.

Press (ENTER).

- Channels under Parental Lock cannot be tuned in by performing Tuning Up/Down or by category search.
- Channels stored in preset memory can be tuned in by the preset channel select operation, even if Parental Lock is applied.
- When a channel to which Parental Lock is applied is being played, Parental Lock for that channel is cancelled by performing Step2.
- See "Edit Lock Code" (Program page 37) for the method of changing Parental Lock Code.
- You can also set "Parental Lock" from the menu (Parenage 37).

Connections

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Operations During Playback

Turning Off the Sound Temporarily (Muting)

Press



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- The sound is reduced to the level set at menu "Mute Level" (127 page 30).
- To cancel, press MUTE again. Muting can also be canceled by adjusting the master volume.

Listening with Headphones

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

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

NOTE

- To prevent hearing loss, do not raise the volume level excessively when using headphones.
- Unplug headphones when performing the Audyssey Auto Setup procedure or other settings.

Selecting the Surround Mode

Select a surround mode to enjoy surround playback with your favorite sound field effects.

1 Playing sources according to the sources' audio signal format/number of channels (Standard Playback)

Operations

The selectable surround modes depend on the following:

- Format of the audio signals being input
- Number of channels of the audio signals being input
- The set amplifier assignment mode (r page 25)

Playing the source (page 38).

STD 2^{Press} mode. to select the surround Rear

Multichannel sources

The surround modes that can be selected differ according to the input source.

2channel sources

When you select "DOLBY PLIIz", set "Amp Assign" to "Front Height". *

DOLBY PLIIx, **DOLBY PL**II

or

DOLBY PLIIz

DOLBY PLII or DOLBY PLIIz, for playback. DTS NEO:6 : The signals are decoded in DTS NEO:6 for playback.

: The signals are decoded in DOLBY PLIIx,

*: DOLBY PLIIx can be selected when surround back speakers are being used.

3 This is the operation for playing 2-channel sources.					
Sele 44).	ct th	e mode for the source at "Mode" (P page			
	BY F	PLIIx, DOLBY PLII			
Cine	na	: This mode is suited for movie sources.			
Mus	ic	: This mode is suited for music sources.			
Gam	ie	: This mode is suited for games.			
Pro Lo	ogic	This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLII decoder. When this mode is selected, "DOLBY PL" is displayed.			
🗆 DTS	NE	D:6			
Cine	na	: This mode is suited for movie sources.			
Mus	ic	: This mode is suited for music sources.			
% The r being		s that can be selected depend on the input source cd.			

The "Cinema" and "Music" modes can also be set by pressing $\overset{\text{CINEMA}}{\overset{\text{MUSIC}}{\overset{}}}$ or 🔿

See overleaf

Displaying the currently playing surround mode

Surround playback of multichannel sources (Dolby Digital, DTS, etc.)

In the case of standard playback of multi channel sources, the AVR-790 recognizes the format of the multi-channel audio input signal and automatically operates the appropriate decoder for surround sound.

Input signalDisplayDolby DigitalDOLBY DIGITAL(other than 2ch)/DOLBY DIGITAL+PLIIx CINEMADolby Digital EXDOLBY DIGITAL+PLIIx CINEMADolby Digital PlusDOLBY DIGITAL+PLIIx CDOLBY DIGITAL+PLIIX MDOLBY TrueHDDOLBY HD+EXDOLBY HD+PLIIX CINEMADOLBY HD+PLIIX CINEMADOLBY HD+PLIIX CINEMADOLBY HD+PLIIX CINEMADOLBY HD+PLIIXDOLBY HD+PLIIX CINEMADTS (5.1ch)/DTS+PLIIX CINEMADTS-SE Discrete 6.1 /DTS+PLIIX CINEMADTS-SE Siscrete 6.1 /DTS+PLIIX MUSICDTS 96/24DTS S MTRX6.1 (*2)DTS 96/24DTS S SDSCRT6.1 (*3)DTS 96/24 (*4)DTS-HD (*1)DTS-HD (*1)DTS-HD NSTRDTS-HD (*1)DTS-HD NSTRDTS-HD PLIIX CINEMADTS-HD NEIXDTS-HD PLIIX CINEMADTS-HD NEIX			
Dolby Digital (other than 2ch)/ Dolby Digital EX DOLBY DIGITAL EX DOLBY DIGITAL+PLIIx CINEMA DOLBY DIGITAL+PLIIx MUSIC DOLBY DIGITAL+PLIIx MUSIC DOLBY DIGITAL+PLIIx MUSIC DOLBY DIGITAL+PLIIx M DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIx M DOLBY HD+EX DOLBY HD+EX DOLBY HD+PLIIx CINEMA DOLBY HD+PLIIX DOLBY HD+PLIIX DIS SURROUND DTS+PLIIX CINEMA DTS+PLIIX DTS-ES Matrix 6.1 / DTS+PLIIX DTS 96/24 (*4) DTS-HD HI RES DTS-HD M STR DTS-HD M STR DTS-HD M STR DTS-HD M STR		Input signal	Display
Image: constraint of the sector of the sec			
Dolby Digital EX Dolby Digital EX Dolby Digital EX Dolby Digital EX Dolby Digital Plus Dolby Digital Plus (* 1) Dolby Digital Plus (* 1) Dolby Digital Plus (* 1) Dolby TrueHD Dolby TrueHD Dolby TrueHD Dolby TrueHD Dolby TrueHD Dolby HD+EX Dolby HD+PLIIx CINEMA DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIx DTS SURROUND DTS-ES Discrete 6.1/ DTS-ES Matrix 6.1 / DTS-ES Matrix 6.1 / DTS-ES Matrix 6.1 / DTS 96/24 DTS HD +PLIIx DTS-HD (* 1) DTS-HD HI RES DTS-HD MSTR DTS-HD NEMA		Dolby Digital	
Dolby DigitalDolby Digital Plus (* 1)DOLBY DIGITAL+PLIIz DOLBY DIGITAL++PLIIx C DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIz DOLBY TrueHD DOLBY TrueHDDolby TrueHD (* 1)DOLBY TrueHD DOLBY HD+EX DOLBY HD+PLIIx CINEMA DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIz DOLBY HD+PLIIzDTS (5.1ch)/ DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS +PLIIzDTS +PLIIx CINEMA DTS +PLIIz DTS +PLIIz DTS +PLIIzDTSDTS 96/24DTSDTS -FD Matrix 6.1 / DTS +PLIIzDTSDTS 96/24DTS-HD (*1)DTS-HD MSTR DTS-HD MSTRDTS-HD (*1)DTS-HD MATR DTS-HD IIX CINEMA		(other than 2ch)/	
Dolby Digital Dolby Digital Plus (*1) DOLBY DIGITAL++PLIIx C DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIx M DOLBY HD+EX DOLBY HD+EX DOLBY HD+PLIIx CINEMA DOLBY HD+PLIIX MUSIC DOLBY HD+PLIIX MUSIC DOLBY HD+PLIIZ DTS SURROUND DTS+PLIIx CINEMA DTS+PLIIX CINEMA DTS+PLIIX MUSIC DTS+PLIIZ DTS ES Matrix 6.1 / DTS P6/24 DTS SURROL (*4) DTS-HD (*1) DTS-HD HI RES DTS-HD MSTR DTS-HD MSTR		Dolby Digital EX	DOLBY DIGITAL+PLIIX MUSIC
DOIBY Digital Plus (*1) DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIx M DOLBY DIGITAL++PLIIz DOLBY TrueHD DOLBY HD+EX DOLBY HD+PLIX CINEMA DOLBY HD+PLIX CINEMA DOLBY HD+PLIIX CINEMA DOLBY HD+PLIIZ DOLBY HD+PLIIZ DOLBY HD+PLIIZ DOLBY HD+PLIIZ DOLBY HD+PLIIZ DOLBY HD+PLIIZ DOLBY HD+PLIIZ DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS-ES Matrix 6.1 / DTS 96/24 DTS SDSCRT6.1 (*2) DTS 96/24 (*4) DTS-HD HI RES DTS-HD NSTR DTS-HD (*1) DTS-HD NSTR DTS-HD NSTR		, 3	DOLBY DIGITAL+PLIIz
Digital (* 1) DOLBY DIGITAL++PLIIX M DOLBY DIGITAL++PLIIZ DOLBY DIGITAL++PLIIX M DOLBY TrueHD DOLBY TrueHD DOLBY TrueHD DOLBY HD+EX DOLBY HD+EX DOLBY HD+PLIIX CINEMA DOLBY HD+PLIIX MUSIC DOLBY HD+PLIIX DOLBY HD+PLIIX DTS (5.1ch)/ DTS SURROUND DTS-ES Discrete 6.1 / DTS+PLIIX MUSIC DTS-ES Matrix 6.1 / DTS+PLIIZ DTS 96/24 DTS ES MTRX6.1 (*2) DTS 96/24 DTS ES DSCRT6.1 (*3) DTS-HD (*1) DTS-HD MSTR DTS-HD (*1) DTS-HD NEC6	Dolby	Dolby Digital Plus	
DOLBY DIGITAL++PLIIZ DOLBY TrueHD DOLBY TrueHD DOLBY HD+EX DOLBY HD+PLIIX CINEMA DOLBY HD+PLIIX MUSIC DOLBY HD+PLIIZ DTS SURROUND DTS+PLIIX MUSIC DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS+PLIIZ DTS 96/24 DTS ES MTRX6.1 (*2) DTS BOCRT6.1 (*3) DTS-HD (*1) DTS-HD MSTR DTS-HD (*1)	,	, .	DOLBY DIGITAL++PLIIx M
DOLBY HD+EX DOLBY HD+EX DOLBY HD+PLIIx CINEMA DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIz DTS SURROUND DTS+PLIIx CINEMA DTS+PLIIX CINEMA DTS+PLIIX MUSIC DTS-ES Matrix 6.1 / DTS-ES Matrix 6.1 / DTS-ES MATRX 6.1 (*2) DTS 96/24 DTS ES DSCRT6.1 (*3) DTS 96/24 (*4) DTS-HD HI RES DTS-HD MSTR DTS-HD (*1) DTS-HD MSTR DTS-HD MSTR	Digital	(*1)	DOLBY DIGITAL++PLIIz
Dolby TrueHD (*1) Dolby HD+PLIIx CINEMA DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIz DOLBY HD+PLIIz DTS SURROUND DTS+PLIIx CINEMA DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS-ES Matrix 6.1 / DTS 96/24 DTS ES MTRX6.1 (*2) DTS 96/24 (*4) DTS-HD (*1) DTS-HD NSTR DTS-HD NSTR DTS-HD NSTR			DOLBY TrueHD
DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIx MUSIC DOLBY HD+PLIIz DTS (5.1ch)/ DTS-ES Discrete 6.1/ DTS-ES Matrix 6.1 / DTS e6/24 DTS e7 DTS-HDI (* 1) DTS-HD (* 1) DTS-HD (* 1)			
DOLBY HD+PLIIz DTS (5.1ch)/ DTS SURROUND DTS-ES Discrete 6.1 / DTS+PLIIx CINEMA DTS-ES Matrix 6.1 / DTS+NEO:6 DTS 96/24 DTS ES MTRX6.1 (*2) DTS HD (*1) DTS-HD HI RES DTS-HD (*1) DTS-HD NSTR		Dolby TrueHD (*1)	DOLBY HD+PLIIx CINEMA
DTS (5.1ch)/ DTS SURROUND DTS-ES Discrete 6.1 / DTS+PLIIx CINEMA DTS-ES Matrix 6.1 / DTS+NEO:6 DTS 96/24 DTS ES MTRX6.1 (*2) DTS BS DSCRT6.1 (*3) DTS+DT HIRS DTS-HD (*1) DTS-HD MSTR DTS-HD (*1) DTS-HD NEO:6			
DTS (5.1ch)/ DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24 DTS DTS-ES Matrix 6.1 / DTS 96/24 DTS ES MTRX6.1 (* 2) DTS ES DSCRT6.1 (* 3) DTS 96/24 (* 4) DTS-HD HI RES DTS-HD MSTR DTS-HD (* 1) DTS-HD PLIIX CINEMA			DOLBY HD+PLIIz
DTS (5.1ch)/ DTS+PLIIx MUSIC DTS-ES Discrete 6.1 / DTS+PLIIz DTS-ES Matrix 6.1 / DTS+NEO:6 DTS 96/24 DTS ES MTX6.1 (*2) DTS 96/24 (*4) DTS-HD HI RES DTS-HD (*1) DTS-HD MSTR DTS-HD+PLIIx CINEMA			
DTS-ES Discrete 6.1 / DTS+PLIIz DTS-ES Matrix 6.1 / DTS+PLIIz DTS 96/24 DTS ES MTRX6.1 (*2) DTS 96/24 (*4) DTS-HD (*1) DTS-HD HI RES DTS-HD +NEO:6 DTS-HD+PLIIx CINEMA		DTS-ES Discrete 6.1 /	DTS+PLIIx CINEMA
DTS DTS-HD (*1) DTS-HD (*1) D			
DTS 96/24 DTS 96/24 DTS ES MTRX6.1 (* 2) DTS ES DSCRT6.1 (* 3) DTS 96/24 (* 4) DTS-HD HI RES DTS-HD MSTR DTS-HD +PLIIX CINEMA			
DTS		DTS-ES Matrix 6.1 /	
DTS 96/24 (* 4) DTS-HD HI RES DTS-HD MSTR DTS-HD (* 1) DTS-HD+PLIIx CINEMA		DTS 96/24	
DTS-HD (*1) DTS-HD (*1) DTS-HD (*1) DTS-HD (*1) DTS-HD (*1) DTS-HD+PLIIx CINEMA	DTS		
DTS-HD MSTR DTS-HD (*1) DTS-HD+PLIIx CINEMA	013		
DTS-HD (*1) DTS-HD+NEO:6 DTS-HD+PLIIx CINEMA			
DTS-HD (*1) DTS-HD+PLIIx CINEMA			
DIS-HD+PLIIX CINEMA		DTS-HD (*1)	
			DTS-HD+PLIIx MUSIC
DTS-HD+PLIIz			
MULTI CH IN	PCM		
PCM MULTI IN+PLIIX CINEMA		PCM	
PCM (multi ch) MULTI IN+PLIIx MUSIC			
MULTI IN+PLIIz			MULTI IN+PLIIz
MULTI CH IN 7.1			MULTI CH IN 7.1

*1 : When a signal is input, the HD AUDIO indicator lights.

- *2: This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-790's "AFDM" setting (12) page 45) is set to "ON".
- *3: This is displayed when the input signal is "DTS-ES Discrete 6.1".
- *4: This is displayed when the input signal is "DTS 96/24".

② Playing in a DENON original surround mode

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

Source select the input source by pressing source select and play the source (127 page 38).

- **2** Press $\stackrel{\text{SIMU}}{\bigcirc}$ to select the Surround mode.
- 5CH/7CH STEREO : This mode is for enjoying stereo sound from all speakers.
- **ROCK ARENA** : This mode is for enjoying the atmosphere of a live concert in an arena.
- **JAZZ CLUB** : This mode is for enjoying the atmosphere of a live concert in a jazz club.
- **MONO MOVIE** : This mode is for playing monaural movie sources with surround sound. *1
- **VIDEO GAME** : This mode is suited for achieving surround sound with video games.
- MATRIX
 : This mode lets you add a sense of expansion to stereo music sources.
- **VIRTUAL** : This mode is for enjoying surround effects using only the front speakers or headphones.
- *1: When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.

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

NOTE

Rear

SIMU

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

③ Direct Playback

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

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

Select the input source by pressing and play the source (P page 38).



2	Press	D/ST	to	select	the	"DIRECT".
---	-------	------	----	--------	-----	-----------



Displaying the currently playing surround mode

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

Selecting the Surround Mode

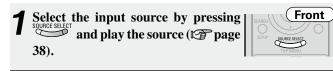
④ Stereo Playback

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

Select the input source by pressing Front SOURCE SELECT and play the source (page SOURCE SELECT 38). D/ST Press () to select the "STEREO". Rear

(5) Playing the Pure Direct mode

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







• To cancel, press again.

• The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.

NOTE

When in the PURE DIRECT mode, the on-screen display is not displayed and the display on the main unit is turned off.

Adjusting the Sound Field Effects (Parameter)

The sound being played in the surround mode can be adjusted to your liking. The items (parameters) that can be adjusted depend on the signal being input and the currently set surround mode. For details on the adjustable parameters, see "Surround Modes and Parameters" (@ page 58).



Some of the setting items cannot be set while playback is stopped. Set these items during playback.

Adjusting the sound field effects (Surround Parameter)

Default settings are underlined.

Setting items	Setting contents
Mode	□ In the PLIIx, PLII or PLIIz mode
Set the play mode for	Cinema : This is the mode for cinema source.
playing 2-channel sources in	Music : This is the mode for music source.
surround.	Game : This is the mode for game source.
	ProLogic : Dolby Pro Logic playback mode (PLII mode only). (This is the mode for 4-channel playback (front L, front R, center, surround (MONO).)
	☐ In the DTS NEO:6 mode
	Cinema : This is the mode for cinema source.
	Music : This is the mode for music source.
	 The "Music" mode is also effective for movie sources including a lot of stereo music.
	 The "Cinema" and "Music" modes can also be set by pressing O or O.
Cinema EQ	OFF : "Cinema EQ" is not used.
Soften the treble range of	ON : "Cinema EQ" is used.
movie sound tracks for better	
understanding.	
Dynamic Range	Low/Mid/High : These set the compression level.
Compression (D.Comp)	OFF : Turn dynamic range compression off.
Compress dynamic range	The "D.Comp" indicator lights when playing DTS source that supports
difference between loud	the "D.Comp" function.
and soft sounds).	
Dynamic Range Control	Auto : Dynamic range compression of Dolby TrueHD sources turns on and
(DRC)	off automatically.
Compress dynamic range	Low/Mid/High : These set the compression level.
	OFF : Turn dynamic range compression off.
_FE	–10dB ~ 0dB
Adjust the low-frequency	For proper playback of the different program sources, we recommend
effects level (LFE).	setting to the values below.
	Dolby Digital sources : "0dB"
	• DTS movie sources : "0dB"
	• DTS music sources : "-10dB"
	RETURN



(ENTER)

Getting Started

Connections Settings Playback

Setting items	Setting contents	Setting items	Setting contents
Center Image	0.0 ~ 1.0 (0.3)	AFDM (Auto Flag Detect	ON : Set.
Assign center channel signal		Mode)	OFF : Do not set.
o front left and right channels		Detects the source's surround	
for wider sound.		back channel signal and sets	
Panorama	ON : Set.	the optimum surround mode	
Assign front L/R signal also	OFF : Do not set.	automatically.	
to surround channels, for		Surround Back	Generation For 2-channel sources
wider sound.		Sets the method of	<u>ON</u> : The surround back channel is used. OFF : No signal is played from the surround back channels.
Dimension	0~6(3)	generating of the surround back channel.	
Shift sound image center			Grant for multi channel sources
to front or rear, to adjust			Set this to set the method of generating of the surround back chan for sources that do not include surround back signals and when y
playback balance.			do not want to play the surround back signals included in the source
Center Width	0 ~ 7 (3)		Check the audio signals of the source being played before making t
Assign center channel signal			setting.
to front left and right channels			OFF : No signal is played from the surround back channels.
for wider sound.			MTRX ON : Generate and play the surround back signals from the
Delay Time	0ms ~ 300ms (30ms)		surround channel signals.
Adjust delay time to control			PLIIx CINEMA *1 : Generate and play the surround back signals
sound stage size.			decoding the signals in the "Dolby Pro Logic IIx Cinema" mode.
Effect Level	1 ~ 15 (<u>10</u>)		PLIIx MUSIC *2 : Generate and play the surround back signals decoding the signals in the "Dolby Pro Logic IIx Music" mode.
Adjust the strength of the			ES MTRX : Generate and play the surround back signals from t
surround effect.	Set to a lower level if the positioning and sense of phase of the		surround channel signals of the DTS source.
	surround signals seems unnatural.		ES DSCRT*3 : Play the surround back signals included in the 6
Room Size	Small : Simulate acoustics of a small room.		channel DTS source.
Determine size of acoustic	Medium small : Simulate acoustics of a medium-small room.		DSCRT ON*3 : Play the surround back signals included in the 7
environment.	Medium : Simulate acoustics of a medium room.		channel source.
NOTE	Medium large : Simulate acoustics of a medium-large room.		*1: This can be selected when "S.Back" in the "Speaker Config
"Room Size" does not	Large : Simulate acoustics of a large room.		settings (🕼 page 26) is set to "2sp".
indicate the size of the room			*2: This can be selected when "S.Back" in the "Speaker Config
in which sources are played.			settings (😰 page 26) is set to "2sp" or "1sp".
			*3 : When "AFDM" is set to "ON", the surround back channel is play
			with the AFDM function. When selected while "AFDM" is set
			"OFF", the source's surround back signals are played.
			\checkmark This can also be set by pressing \bigcirc .
			NOTE
			This is valid when the "Amp Assign" setting (12 page 25) is set to "
			channel surround back" or "6 1-channel surround back" and when

This is valid when the "Amp Assign" setting (12) page 25) is set to "7.1channel surround back" or "6.1-channel surround back", and when the "S.Back" setting (12) page 26) is set to "Large" or "Small".



Adjusting the Sound Field Effect (Parameter)

ENGLISH

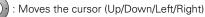
Setting items	Setting contents	Making the I
Front Height Set whether or not to use the front height channel.	ON : Use the front height channel. <u>OFF</u> : Do not use the front height channel. This can also be set by pressing $\overset{\text{SPEAKERS}}{\bigcirc}$.	settings (Au
Subwoofer ATT Attenuate subwoofer level when using EXT. IN mode.	 ON : The input from the subwoofer channel is attenuated. QFE : The input from the subwoofer channel is not attenuated. Usually use in this mode. Set this to "ON" if the subwoofer channel level seems too high when playing audio signal. 	 When the "Audysse EQ" and "Dynamic Operating condition Dynamic EQ : When "MultEQ" i Dynamic Volume
Subwoofer Turn subwoofer output on	ON : The subwoofer is used. OFF : The subwoofer is not used.	When "Dynamic E • Setting :

and off. Default Yes : Reset to the defaults. Restores all the surround No: Do not reset to the defaults. parameter settings to their defaults.

Adjusting the tone (Tone Control)

Default settings are underlined.

	Default settings are underlined.	Setting items	Setting contents
Setting items one Control ets the tone control function N and OFF. This can be set when "Dynamic EQ" (P page 47) is set to "OFF". Cass djusts the low frequencies. This can be set when "Tone Control" is set to "ON".	Setting contents ON : Allow tone adjustment (treble, bass). OFF : Playback without tone adjustment. Image: The tone cannot be adjusted when in the DIRECT mode. -6dB ~ +6dB (OdB)	MultEQ Corrects the frequency	Audyssey : Optimize frequency response of all speakers. Audyssey Byp.L/R : Optimize frequency response of speakers excert front L and R speakers. Audyssey Flat : Optimize frequency response of all speakers to response. Manual : Apply frequency response set with "Manual EQ" (P page 4 OFF : The "MultEQ" equalizer cannot be used. • When "Audyssey," "Audyssey Byp. L/R" or "Audyssey Flat" selected, "MULTEQ" " lights. • After running Audyssey Auto Setup, if the Speaker Configuration
reble djusts the high equencies. This can be set when "Tone Control" is set to "ON".	–6dB ~ +6dB (<u>0dB</u>)		



RETURN

MultEQ, Dynamic EQ and Dynamic Volume dyssey Settings)

Default settings are underlined.

- sey Auto Setup" (@ page 20) procedure is performed, the "MultEQ", "Dynamic c Volume" functions are enabled.
- ons for each function
- is set to "ON" e : EQ" is set to "ON"
- Setting : When "Dynamic Volume" is set to "ON"

M	ultEQ	
1	Dynamic EQ	
	Dynamic Volume)
	Setting	J
_		_

If the speaker settings are changed after the "Audyssey Auto Setup" procedure is performed, "MultEQ", "Dynamic EQ" and "Dynamic Volume" functions cannot be selected and "Run Audyssey" is displayed.

If this happens, either perform the "Audyssey Auto Setup" procedure again, or perform the "Restore" operation (P page 24) to restore the settings to as they were after the "Audyssey Auto Setup" procedure was performed.

Setting items	Setting contents	
WultEQ Corrects the frequency esponse of the different speakers. NOTE "MultEQ" and "Manual EQ" settings for which "Not Used" has been set at "EQ Customize" ICP page 29) cannot be selected. When using headphones, "MultEQ" is set to "OFF".	 Audyssey : Optimize frequency response of all speakers. Audyssey Byp.L/R : Optimize frequency response of speakers except front L and R speakers. Audyssey Flat : Optimize frequency response of all speakers to flat response. Manual : Apply frequency response set with "Manual EQ" (1297 page 47). OFF : The "MultEQ" equalizer cannot be used. When "Audyssey," "Audyssey Byp. L/R" or "Audyssey Flat" is selected, "MULTED" "lights. After running Audyssey Auto Setup, if the Speaker Configuration, Distance, Channel Level, and Crossover Frequency have changed without increasing the number of speakers measured, only "MULTED" "lights. This can also be set by pressing Output Description and the speakers of speakers measured, only "MULTED" 	

Adjusting the Sound Field Effect (Parameter)



ems	Sett	ing contents
c EQ solves eteriorating	ON : Use Dynamic EQ function. OFF : Do not use Dynamic EQ fu	unction.
volume is aking into perception cs.	• When set to "ON", "MULTEQ	"OFF", "Dynamic EQ" is automatically set
when the page 46) ing other	Dynamic EQ : 0N/Volume : 0	FF Dynamic EQ / Volume : OFF
	"Red"	"Off"
	NOTE	
	Reference Level Offset : Audys	hen "Dynamic EQ" is set to "ON". ssey Dynamic EQ takes the standard film
	However, since standardization reference level of media conte	

- OdB : Suitable for viewing movies.
- 5dB : Suitable for listening to classical music and other content mixed at a high level.
- 10dB : Suitable for listening to jazz and other audio sources with a wide dynamic range. Also suitable for viewing TV.
- 15dB : Suitable for listening to pop, rock music and other content with an extremely wide dynamic range.

.

Setting is enabled when "Dynamic EQ" is "ON" .

ON : Use Dynamic Volume. The Dynamic Volume effect will be at the level Audyssey Dynamic Volume of the "Setting" (12) page 47) solves the problem of **OFF** : Do not use Dynamic Volume. large variations in volume . When set to "ON," "MULES " is displayed.

- When "MultEQ" is set to "OFF", "Dynamic Volume" is automatically set to "OFF". • This can also be set by pressing
 - Dynamic EQ / Volume : ON ---- Dynamic EQ : ON / Volume : OFF ----

This can be set when "Dynamic EQ" (@ page 47) is set to "ON".	
---	--

Setting items	Setting contents	
Setting Set Dynamic Volume effect.	Day : Low setting provides the least adjustments to the loudest and softest of sounds.	
This can be set when "Dynamic EQ" (127 page 47) is set to "ON".	Evening : Middle setting prevents loud and soft sounds from being much louder and softer respectively than average sounds. Midnight : High setting affects volume the most, causing all sounds to be of equal loudness.	

Adjust tonal quality for each speaker using graphic equalizer (Manual EQ)

Default settings are underlined.

Setting items	Setting contents	
Adjust CH1. Select speaker adjustment method.Adjust the tonal quality of the individual speakers.All CH : Adjust tonal quality for all speakers together. L/R CH : Adjust tonal quality for each L/R speaker pair. Each CH : Adjust tonal quality for each speaker separately		
	 2. Select the frequency band to be adjusted. 63Hz / 125Hz / 250Hz / 500Hz / 1kHz / 2kHz / 4kHz / 8kHz / 16kHz ** When "L/R CH" or "Each CH" is selected, select the speaker to be adjusted. 	
	3. Adjust the level. 20.0dB ~ +6.0dB (<u>0dB</u>)	
Base Curve Copy	Yes : Copy.	
Copy the MultEQ "Audyssey	No : Do not copy.	
Flat" correction curve.	"Base Curve Copy" is displayed after the Audyssey Auto Setup procedure has been performed.	
Default	Yes : Reset to the defaults.	
Reset the "Manual EQ"	No: Do not reset to the defaults.	
settings to their defaults.		





AUDYSSEY "Red"



Restoring compressed audio to nearly pre-compressed conditions for playback (RESTORER)

Default settings are underlined.

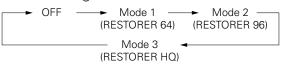
- Such compressed audio formats as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of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

Setting contents

OFF : Do not use RESTORER.

Mode1 (RESTORER 64) : Optimized mode for compressed sources with very weak highs. Mode2 (RESTORER 96) : Apply suitable bass and treble boost for all compressed sources. Mode3 (RESTORER HQ) : Optimized mode for compressed sources with normal highs.

- The default setting for "iPod" is "Mode3". All others are set to "OFF".
 - When set to something other than "OFF," "RSTR " is displayed.
 - This can also be set by pressing during playback.



Adjusting the audio delay time while watching the picture (Audio Delav)

Default settings are underlined.

Setting contents

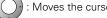
<u>0ms</u> ~ 200ms

- ${\mathscr F}$ If you wish to adjust the "Audio Delay" while playing HDMI or component video signals, press Δ to set "OSD" to "OFF". This way the audio delay can be adjusted while watching the picture. (Press the Δ again. The display switches to the display of the menu screen only.)
 - This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large," "Tone Control" to "OFF" and "MultEQ" and "RESTORER" to "OFF").
 - When the Auto Lipsync Correction function is operating, you can set within the range 0 ~ 100 ms.
 - Store "Audio Delay" for each input source.

Checking the Status (Information)

0	0
Setting items	Setting contents
Status Shows information about current settings.	Select Source / Surround Mode / Input Mode / Decode Mode / HDMI / Digital / Component / iPod Dock / Video Select / Source Level / i/p Scaler / Resolution / Progressive Mode / Aspect
	You can also display current status on the main unit's display each time you press and the main unit.
	ZONE2 • POWER/ Select Source/ Master Volume
Audio Input Signal Shows information about audio input signals.	fs : The input signal's sampling frequency is displayed.
	Format : The number of channels in the input signal (front, surround, LFE) is displayed.
	Offset : The dialogue normalization correction value is displayed. Flag : This is displayed when inputting signals including a surround back channel. "MATRIX" is displayed with Dolby Digital EX and DTS-ES Matrix signals, "DISCRETE" with DTS-ES Discrete signals.
HDMI Information	HDMI Signal Information
Shows information about	Resolution / Color Space / Pixel Depth
HDMI input signals and monitor.	HDMI Monitor Information Interface / Suport Resolution
Auto Surround Mode	Analog/PCM / Digital 2ch / Digital 5.1ch / Multi CH
Shows information about auto surround mode settings.	
Quick Select Shows information about quick select settings.	Quick Select 1 / Quick Select 2 / Quick Select 3 • Name / Input Source / Video Select / Volume Level / MultEQ / Dynamic EQ / Dynamic Vol / Analog/PCM / Digital 2ch / Digital 5.1ch / Multi CH
	ZONE2 Quick Select Quick Select 1 Source / Quick Select 1 Volume / Quick Select 1 Name Quick Select 2 Source / Quick Select 2 Volume / Quick Select 2 Name Quick Select 3 Source / Quick Select 3 Volume / Quick Select 3 Name
Preset Channel Shows information about preset channels.	A 1 ~ G 8 • TUNER / SIRIUS





(enter)

RETURN

Convenient functions

HDMI Control Function

When you make an HDMI connection with a TV or player compatible with AVR-790 and HDMI control functions, you can perform the following operations by setting the HDMI control function of each device.

AVR-790 power off can be linked to the TV power off step

- * When you set "Output audio from amp" in the TV audio output setup operation, you can switch the amp power on.
- □ You can switch audio output devices with a TV operation
- □ You can adjust AVR-790 volume in the TV volume adjustment operation
- □ You can switch AVR-790 input source through linkage to TV input switching
- U When playing the player, the AVR-790 input function switches to the function of that player

- To play the TV's sound on the AVR-790, make optical digital connections (Program page 13 "Connecting the TV").
- To use this function, set "HDMI Control" (P page 28) to "ON".

49

- When you power off AVR-790, the HDMI control function does not operate.
- Some functions may not operate depending on the connected TV or player. Check the owner's manual of each device for details beforehand.
- When "HDMI Control" is set to "ON", it is not possible to assign an HDMI terminal to "TV" at "HDMI" (@ page 28).
- When "HDMI Control" (R page 28) is set to "ON", power is supplied constantly to the AC outlet (UNSWITCHED).

4 Turn the power on for all the equipment connected by HDMI cable.

Set the HDMI control function for all equipment **C** connected by HDMI cable.

Set "HDMI Control" (@ page 28) to "ON"

- * Please refer to the owner's manual as regards setting of connected devices.
- *Carry out Steps 1 and 2 should any of the equipment be unplugged.

3 Switch the television input to the HDMI connected to the AVR-790.

Switch the AVR-790 input to the HDMI input source **T** and check if the picture from the player is ok.

When you turn the TV's power to standby, check that **O** the power of the AVR-790 and player also goes on standby.

If the HDMI control function does not operate properly, check the following points.

- Is the TV or player compatible with the HDMI control function?
- Is the AVR-790 properly set?
- Is "HDMI Control" (B page 28) set to "ON"?
- Is "Power Off Control" (Page 28) set to "ON"?
- Are the HDMI control function settings of all equipment correct?

Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat step's 1 and 2.

- Menu "HDMI" (r page 28) setting has changed.
- There is a change to the connection between the equipment and the HDMI, or an increase in equipment.

Setting the power to standby after a certain amount of time (Sleep Timer Function)

This function allows you to automatically set the power to standby after the set amount of time has passed.

When the sleep timer turns the power off in the MAIN ZONE, the power also turns off in the ZONE2.

Press \bigcirc and display the time you want to set.

The "SLEEP" indicator on the display lights.

• The time switches as shown below each time pressed.

► Sleep:OFF	Sleep: 120min		Sleep:90min	-
-------------	---------------	--	-------------	---

- Sleep: 30min Sleep:60min
- The time display turns off after about 5 seconds, and the setting is activated.
- Once the set time has passed, the power is automatically set to standby.

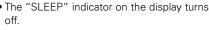
To cancel the sleep timer

Press \bigcirc^{SLEEP} to set "OFF".

• The "SLEEP" indicator on the display turns



- off



Adjust the volume of the different speakers

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

Adjust the volume of the different speakers

Press ^{CH LEVEL}. Channel Volume 0.0dB 0.0dB▶SR 0.0dB SBR 0.0dB 0.0dB SBL 0.0dB lsw 0.0dB SL 0.0dB Fader FRONT 4: FREAR [▲▼]:CH Sel Front \frown Press $\triangle \nabla$ to select the speaker. CH LEVE The speaker that can be set switches each time one of the buttons is pressed. **3** Press $\triangleleft \triangleright$ to adjust the volume.

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

ø

If headphones are plugged in, the headphones settings screen appears.

Adjusting the volume of groups of speakers (Fader Function)

This function lets you adjust (fade) the sound from all the front (Front speaker/center speaker/Front Height speaker) or rear (Surround speaker/Surround Back speaker) speakers at once.

1 Use $\bigcirc^{CH \ EVEL}$ or \bigtriangledown to select "Fader", then select the item to be adjusting using \triangleleft or \triangleright .

2 Press $\triangleleft \triangleright$ to adjust the volume of the speakers.

ø

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

Saving frequently used settings (Quick Select Function)

This function allows you to save all the settings shown in step 1. When frequently used settings are saved, they can easily be set again the next time you want to use them. This function also allows you to always enjoy the same playback environment.

• Three sets of settings can be saved.

MAIN ZONE settings

Saving the settings

- Set the items below to the settings you want to save.
 - (1) Input source (🖙 page 38)
 - 2 Input Mode (12 page 34)
 - 3 Surround Mode (page 42)
 - 4 Audyssey Settings (MultEQ, Dynamic EQ, Dynamic Volume) (Program page 46)
 - (5) Volume setting (P page 38)

Press and hold the desired 🗍 🗿 🕲 until "Memory"

appears on the display. The current settings will be memorized.

CVVIII CVVIIII CVVIII C

[Quick Select Defaults]

	Input Source	Volume
Quick Select 1	DVD	–40 dB
Quick Select 2	SAT/CBL	–40 dB
Quick Select 3	VCR/iPod	–40 dB
	•	

Input sources stored with the quick select function cannot be selected

if they have been deleted at menu "Source Delete" (@ page 30). In

Calling the settings out

this case, store them again.

Press the **1 2 3** at which the settings you want to call out are saved.



Naming Quick Select settings

"Quick Select Name" (😰 page 31).

ZONE2 settings

It is also possible to save three settings for ZONE2.

Saving the settings

- **1** Set the remote control unit's device selector switches as shown on right.
 - **2** Perform steps 1 and 2 under "MAIN ZONE settings".

Various memory functions

Personal Memory Plus Function

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

Last Function Memory

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

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

Backup Memory

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



Playing 2-Channel Sound in ZONE2 (multizone function)

2-channel sound can be played in rooms other than the MAIN ZONE where multichannel sound is played.

There are two methods to do this, as described below. Choose one of the methods.

- (1) ZONE2 playback by speaker output
- 2 ZONE2 playback by audio output (PRE OUT) (using an external amplifier))

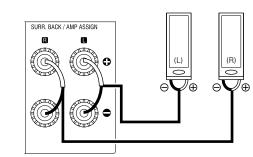
1 ZONE2 playback by speaker output

With the Amp Assign function, Zone 2 audio signals are output from the AVR-790's SURR BACK/AMP ASSIGN terminals.

Preparations

Connecting and setting the speakers

Connecting the speakers



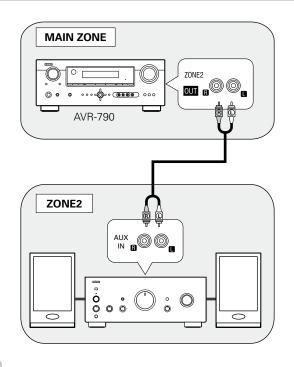
Necessary settings

- Set the AMP ASSIGN mode to "ZONE2". "AMP Assign" (B page 25)
- Perform the settings at "ZONE2 Setup".
- "Making the ZONE2 settings" (12 page 30)

2 ZONE2 playback by audio output

The audio signals connected to the AVR-790's ZONE2 output terminals (ZONE2 OUT) are output to the ZONE2's amplifier and played with that amplifier.

Connection (ZONE2)



Adjust the volume on the connected amplifier.

• Also be sure to read the operating instructions of the connected devices.

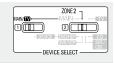
NOTE

- We recommend using high quality pin-plug cables for audio connections in order to prevent noise.
- It is not possible to play the digital audio signals input from the HDMI, COAXIAL or OPTICAL terminals in ZONE2. Play using analog connections (in stereo).

Playback

The operation is the same for "1 ZONE2 playback by speaker output" and "2 ZONE2 playback by audio output".

Set the remote control unit's "device selector switches" as shown on right.



Turn on the AVR-790's power. (CP page 17 "Turning the Power On")



- 3
- Press O to turn on the ZONE2 power. When the power turns on, the "Z2" indicator lights on the display.
- * The power can be turned on by pressing the one of while in the standby mode.

Use the input source selector to choose the input source.

The selected input source is shown on the display.

When "SOURCE" is selected for the input source, the sound being played in the MAIN ZONE is played. No sound is output if a digital audio input source is being played in the MAIN ZONE.

Adjusting the volume (for "1) ZONE2 playback by speaker output")

Use (Δ) v to adjust the volume.

[Variable range] --- -80dB(1) _ -40dB(41) _ +18dB(99)

- * The volume can be adjusted up to the level set at "Vol. Limit" (CP page 30).
- * The volume display is the display set at "Volume Display" (12) page 30).

For "2 ZONE2 playback by audio output," adjust the volume on the connected amplifier.

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Operating the Connected Devices by Remote Control Unit

Registering Preset Codes

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

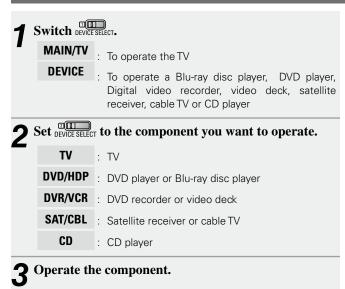


Press $\bigcirc^{\text{ZONE OFF}}$ and \bigcirc^{MAINON} at the same	Rear
time. The indicator starts flashing.	
4 Press 1 ~ 9 and input the 3- digit number of the brand of the	123
component to be preset. The numbers are shown in the Preset Code Table (P End of this manual).	(7) (8) (9) CD PHOMO SAT/ CBL (+10) (0) 10 TUNER V,SEL NPUT MODE

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

- 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.
- VDP (Video Disc Player) can be preset when DEVICE SELECT is set to "DVD/ HDP".
- The preset memory can be set for one component only among the following: DVD/HDP, DVR/VCR and SAT/CABLE.

Operating Registered Devices



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

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.

Front MAIN-AIN/IN 2 DEVICE SELECT DEVICE SELECT Play / Pause ► Stop SHET MEMORY * 1 MEMORY TU/PAGE Page up/down *1 Auto search (cue) $\Delta \nabla \triangleleft \triangleright$ Cursor ENTER ENTER Enter н Pause Press and hold SEARCH Browse/Remote Front mode switching mode switching DENON RETURN Return

iPod

- *1:This operation is possible when using a DENON ASD-3N or ASD-3W Control Dock for iPod.
- *2: This operation is possible when using a DENON ASD-1R or ASD-11R Control Dock for iPod.

Once

Page search

*2

(Front)	1
DEVICE SELECT	
ON/SOURCE	Power on / Standby
•	Play *
11	Pause *
	Stop *
	Manual search *
	(fast-reverse / fast-forward)
CH + –	Channel *
TV INPUT	Switching the input
VOLUME A	▲ : TV Volume (+) ▼ : TV Volume (–)
MUTE	TV MUTE
MENU	Calling out the menus
	Cursor operation
ENTER	Enter setting
SETUP	Setup
RETURN	Return
Rear	
1 ~ 12	Channels
Default setting	HITACHI
(Preset code)	(014)
Special Remarks	1

Rear

(127 page 54) is set, this functions as the button for the device for which punch through is set.

Blu-ray Disc / D	OVD Player			ļ						
	Front									
	DEVICE SELECT									
	POWER OFF		er off							
SHET DEPA	ON/SOURCE	Power on or Pov	ver on / Standby							
			ay							
			ор							
	SHIFT, 💵	Pai	use							
		BD Player	DVD Player							
	SKIP +	_	Disc skip							
SEARCH SETUP SETUP DOWNES SLEET TOP MENU TOP MENU		Manual search (fast-reverse / fast-forward)								
		Auto search (cue)								
DEVICE SELECT	MENU	Calling out	the menus							
(Front)		Cursor o	peration	(
	ENTER	Enter setting								
DENON	SETUP	Se	tup							
RC-1117	RETURN	Ret	turn							
	SOURCE SELECT / TOP MENU	Calling out th	ne top menus							
ZONE MAIN ON	Rear									
	0 ~ 9, +10	Number input /	Track selection							
	Default setting	BD Player	DVD Player							
4 5 6 7 8 9	(Preset code)	DENON (121)	DENON (111) *							
	Special Remarks	1,	2							
	* : The initial setting	of Preset code is 11	1 (DVD Player).							

Digital Video Recorder / Video Deck

	Front
	DEVICE SE
	ON/SOUR
	►
Ö	SHIFT, I
	CH + -
SEARCH	MENU
SETUP	
	ENTER
	SETUP
	RETURN
(Front	Rear
DENON	0 ~ 9, +1
RC-1117	Default set
	(Preset co Special Ren
$\left(\begin{array}{c} \\ \end{array} \right)$	Special nell

Front								
DEVICE SELECT								
ON/SOURCE	Power on / Standby							
►	Play							
	Stop							
SHIFT, 💵	Pause							
	Manual search							
	(fast-reverse / fast-forward)							
CH + –	Switch channels (+, –)							
MENU	Calling out the menus							
$ \Box \nabla \Box \Box$	Cursor operation							
ENTER	Enter setting							
SETUP	Setup							
RETURN	Return							
Rear								
0 ~ 9, +10	Channels							
Default setting	HITACHI							
(Preset code)	(800)							
Special Remarks	1), 2							

Operating Registered Devices

[Special Remarks]

- ① Only one device can be set in the preset memory for each mode. When a new preset code is registered, the existing code is automatically erased.
- 2 For some brands, the DVD remote control buttons may have different function names. Check beforehand.

Satellite receiver/Cable TV

1 2 3 DVD TV iProd	
HDP TUNER SATTU	
\bigcirc	
Self Osp	
MERU O	
SETUP SCURDE SELECT	
Front	
DENON RC1112	

(Front)										
DEVICE SELECT										
ON/SOURCE		/ Standby								
	Pla									
	Pause *									
	Sto									
	Manual s	earch *								
		fast-forward)								
CH + –	Channel *									
	Cursor o	peration								
ENTER	Enters	setting								
MENU		the menus								
SETUP		tup								
RETURN	Ret	urn								
Rear										
0 ~ 9, +10	Char	nnels								
	Satellite	Cable TV								
Default setting	Receiver									
(Preset code)	_	ABC								
	(009)									
Special Remarks	1									

	Front
DVD TV Pod HDP TUMER SATTU	DEVICE SELECT
MEMORY	POWER OFF
SHET O COL	ON/SOURCE
	►
	SHIFT, 💵
MUTE	SKIP +
MENU A A A CNTER A C	44 >>
SETUP SELECT	
	Rear
	0 ~ 9, +10
	Default setting
Front)	
	(Preset code)
DENON	(Preset code)
DENON 86-1117	(Preset code) Special Remarks

(

CD Player

Operating Registered Devices

20

DEVICE SELECT

Power off

Power on or Power on / Standby Play

Stop

Pause

Disc skip + Manual search

(fast-reverse / fast-forward)

Auto search (cue)

Number input / Track selection

DENON

(111)

1

DEVICE

- 11W

- CD

Assigning buttons that are Not Used to Operate Other Devices (Punch Through Function)

The Blu-ray disc Pla or CD player can be	ayer/DVD player, Digital V e operated as described b CBL" or "TV" position.	ideo recorder, video deck					
 Play fast-forward 	• Stop • fast-reverse	PauseAuto Search					
Switch DEVICE SE							
MAIN/TV :	Assigning TV buttons to	operate other devices					
DEVICE :	Assigning satellite recei operate other devices	ver or cable TV buttons to					
2 Switch DEVICE S	ELECT.						
TV :	Assigning TV buttons to	operate other devices					
SAT/CBL :	Assigning satellite recei operate other devices	ver or cable TV buttons to					
3 Press \bigcirc a The indicator s	nd www at the same tistarts flashing.	ime.					
	ne table below and ing to the device to be	input the number e assigned.					
D	evice to be assigned	Numbers					
iPod, Tuner	iPod, Tuner						
CD Player		2					
Blu-ray Disc	Player / DVD Player	3					

Device to be assigned	Numbers
iPod, Tuner	1
CD Player	2
Blu-ray Disc Player / DVD Player	3
DVD Recorder, Video Deck	4
No setting	0

This is set to "No setting" upon purchase.

[Special Remarks]

① Only one device can be set in the preset memory for each mode.

through is set.

When a new preset code is registered, the existing code is automatically erased.

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

button for the device for which punch

Connections

Settings

Playback

Multi-Zone

Other Information

Surround

The AVR-790 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Dolby Surround

Dolby Digital

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

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

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

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

Dolby Digital Plus

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

Dolby TrueHD

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

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

Dolby Pro Logic II

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

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

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

Dolby Pro Logic IIx

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

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

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

Dolby Digital EX

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

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

Dolby Pro Logic IIz

Dolby Pro Logic IIz introduces a new dimension to Home Entertainment through the addition of a pair of front height channels. Compatible with stereo, 5.1 and 7.1 content, Dolby Pro Logic IIz provides enhanced spaciousness, depth and dimension to movies, concert video and videogame playback while maintaining the full integrity of the source mix.

Dolby Pro Logic IIz identifies and decodes spatial cues that occur naturally in all content, directing this information to the front height channels, complementing the performance of left and right surround sound speakers. Content that is encoded with Dolby Pro Logic IIz height channel information can be even more revealing, with perceptually discrete height channel information bringing an exciting new dimension to home entertainment.Dolby Pro Logic IIz, with front height channels is also an ideal alternative for households that cannot support the placement of back surround speakers of a typical 7.1 channel system but may have bookshelf space available to support the addition of height speakers.

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

DTS Surround

DTS Digital Surround

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

DTS-HD High Resolution Audio

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

DTS-HD Master Audio

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

DTS-ES[™] Discrete 6.1

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

DTS-ES[™] Matrix 6.1

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

DTS NEO:6[™] Surround

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

Connections

Settings

Playback

Multi-Zone

Remote Control

Information

Troubleshooting

Specifications

Surround

DTS 96/24

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

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc.© 1996-2008 DTS, Inc. All Rights Reserved.

Audyssey

Audyssey MultEQ®

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

Audyssey Dynamic EQ[™]

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

Audyssey Dynamic Volume[™]

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

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

AUDYSSEY MULTEQ DYNAMIC VOLUME

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

Surround Modes and Parameters

								Signals and	adjustability ii	n the different	modes						
Surround mode			Chanı	nel output						Param	eter (default v	alues are shov	vn in parenthe	ses)			
Surround mode	Front L/R	Center	Surround L/R	Surround Back L/R	Front Height L/R	Subwoofer	D. Comp *1	LFE *2	AFDM *1	SB CH Out	Cinema EQ.	Mode	Room Size	Effect	Delay time	Subwoofer	DRC *
PURE DIRECT, DIRECT	0	0	0	0	×	O	O (OFF)	(0dB)	×	×	×	×	×	×	×	0	O (Auto)
MULTI CH DIRECT	0	\bigcirc	O	0	×	O	Х	(0dB)	(ON)	0	×	×	×	×	×	×	×
STEREO	0	×	×	×	×	O	O (OFF)	(0dB)	×	×	×	×	×	×	×	×	🔿 (Auto)
EXT. IN	0	\bigcirc	O	0	×	O	Х	×	×	×	×	×	×	×	×	×	×
MULTI CH IN	0	O	0	0	×	O	Х	(0dB)	(ON)	0	×	×	×	×	×	×	×
DOLBY PRO LOGIC IIx	0	\bigcirc	O	0	×	O	(OFF)	×	×	0	O (NOTE1)	O (Cinema)	×	×	×	×	O (Auto)
DOLBY PRO LOGIC II	0	\bigcirc	0	×	×	O	O (OFF)	×	×	0	O (NOTE2)	O (Cinema)	×	×	×	×	🔿 (Auto)
DTS NEO:6	0	O	O	0	×	O	(OFF)	Х	×	0	O (NOTE1)	O (Cinema)	×	×	×	×	×
DOLBY PRO LOGIC IIz	0	O	0	×	0	O	(OFF)	Х	×	×	O (OFF)	×	×	×	×	×	×
DOLBY DIGITAL	0	\bigcirc	O	0	O	O	O (OFF)	(0dB)	(ON)	0	O (OFF)	×	×	×	×	×	×
DOLBY DIGITAL Plus	0	\bigcirc	O	0	O	O	O (OFF)	(0dB)	(ON)	0	O (OFF)	×	×	×	×	×	×
DOLBY TrueHD	0	\bigcirc	O	0	O	O	(OFF)	(0dB)	(ON)	0	O (OFF)	×	×	×	×	×	O (Auto)
DTS SURROUND	0	O	0	0	0	O	(OFF)	(0dB)	(ON)	0	O (OFF)	×	×	×	×	×	×
DTS 96/24	0	\bigcirc	O	0	O	O	(OFF)	(0dB)	(ON)	0	O (OFF)	×	×	×	×	×	×
DTS-HD	0	\bigcirc	O	0	O	O	O (OFF)	(0dB)	(ON)	0	O (OFF)	×	×	×	×	×	×
5CH/7CH STEREO	0	\bigcirc	O	0	O	O	O (OFF)	(0dB)	×	0	×	×	×	×	×	×	×
ROCK ARENA	0	O	0	0	0	O	(OFF)	(0dB)	×	0	×	×	O (Medium)	(10)	×	×	×
JAZZ CLUB	0	O	O	0	O	O	(OFF)	(0dB)	×	0	×	×	O (Medium)	(10)	×	×	×
MONO MOVIE	0	0	0	0	O	O	O (OFF)	(0dB)	×	0	×	×	O (Medium)	(10)	×	×	×
VIDEO GAME	0	\bigcirc	0	0	O	O	(OFF)	(0dB)	×	0	×	×	O (Medium)	(10)	×	×	×
MATRIX	0	O	0	0	0	O	(OFF)	(0dB)	×	0	×	×	×	×	(30 ms)	×	×
VIRTUAL	0	×	×	×	×	O	O (OFF)	(0dB)	×	×	×	×	×	×	×	×	×

| ○ : Signal / Adjustable

imes : No signal / Not adjustable

© : Turned on or off by speaker configuration setting

| 🔾 : Signal / Adjustable

imes : No signal / Not adjustable

NOTE1 : This parameter is available when the menu "Mode" (12) page 44) is set to "Cinema".

NOTE2 : This parameter is available when the menu "Mode" (127 page 44) is set to "Cinema" or "PL".

NOTE:

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

*3 : When playing Dolby TrueHD signal.

Surround

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

| ○ : Adjustable

× : Not adjustable

NOTE3 : BASS +6 dB, TREBLE +4 dB

NOTE4 : Cannot be set when the "Dynamic EQ" (127 page 47) setting is "ON".

NOTE5 : Cannot be set when the "MultEQ" (B page 46) setting is "OFF".

NOTE6 : Cannot be set when the "Dynamic EQ" (B page 47) setting is "OFF".

NOTE7 : "RESTORER" can be set for analog or PCM 48 k or 44.1 k input signals.

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Differences in Surround Mode Names Depending on the Input Signals

Button									Input sig	nals							
			PC	M	DTS	S-HD		DT	S		DO	LBY		DO	LBY DIGITA	L	
Surround mode	Note	ANALOG	Linear PCM (multi ch)	Linear PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)
STANDARD																	
DTS SURROUND]																
DTS-HD MSTR		×	×	×	•	×	×	×	×	×	×	×	×	×	×	×	×
DTS-HD HI RES		×	×	×	×	•	×	×	×	×	×	×	×	×	×	×	×
DTS ES DSCRT6.1	*1 *3	×	×	×	×	×		×	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1	*1 *3	×	×	×	×	×	×		×	×	×	×	×	×	×	×	×
DTS SURROUND		×	×	×	×	×	0	0	•	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×	×	×	×	•	×	×	×	×	×	×	×
DTS (-HD) + PLIIx CINEMA	*2 *3	×	×	×	0	0	0	0	0	0	×	×	×	×	×	×	×
DTS (-HD) + PLIIx MUSIC	*1 *3	×	×	×	0	0	0	0	0	0	×	×	×	×	×	×	×
DTS (-HD) + PLIIz	*1 *4	×	×	×	0	0	0	0	0	0	×	×	×	×	×	×	×
DTS (-HD) + NEO:6	*1 *3	×	×	×	0	0	×	0	0	0	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DTS NEO:6 MUSIC		0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY SURROUND																	
DOLBY TrueHD		×	×	×	×	×	×	×	×	×		×	×	×	×	×	×
DOLBY DIGITAL+		×	×	×	×	×	×	×	×	×	×	•	×	×	×	×	×
DOLBY DIGITAL EX	*1 *3	×	×	×	×	×	×	×	×	×	×	×	0	0	0	0	×
DOLBY (D+) (HD) +EX	*1 *3	×	×	×	×	×	×	×	×	×	0	0	×	×	×	×	×
DOLBY DIGITAL		×	×	×	×	×	×	×	×	×	×	×	0		•	•	×
DOLBY (D) (D+) (HD) +PLIIx CINEMA	*2 *3	×	×	×	×	×	×	×	×	×	0	0	$\bullet \circ$	0	0	0	×
DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1 *3	×	×	×	×	×	×	×	×	×	0	0	0	0	0	0	×
DOLBY (D) (D+) (HD) +PLIIz	*1 *4	×	×	×	×	×	×	×	×	×	0	0	0	0	0	0	×
DOLBY PRO LOGIC IIx CINEMA	*3	0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY PRO LOGIC IIx MUSIC	*3	0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY PRO LOGIC IIx GAME	*3	0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY PRO LOGIC IIz	*4	0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY PRO LOGIC II CINEMA		0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY PRO LOGIC II MUSIC		0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY PRO LOGIC II GAME		0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0
DOLBY PRO LOGIC		0	×	0	×	×	×	×	×	×	×	×	×	×	×	×	0

NOTE:

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

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

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

*4: Not selectable when "Amp Assign" is set to anything other than "Front Height".

• : Mode selectable in initial status

 \mathbb{O} : Mode fixed when "AFDM" is "ON"

 \bigcirc : Selectable mode

 \times : Non-selectable mode

																5	Surround
Button									Input sign	als							
			PC	M	DTS	S-HD		DTS			DO	LBY		D	OLBY DIGIT	AL	
Surround mode	Note	ANALOG	Linear PCM (multi ch)	Linear PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)
STANDARD																	
MULTI CH IN																	
MULTI CH IN		×	•	×	×	×	×	×	×	×	×	×	×	×	×	\times	×
MULTI IN + PLIIx CINEMA	*2 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MULTI IN + PLIIx MUSIC	*1 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MULTI IN + PLIIz	*1 *5	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MULTI IN + Dolby EX	*1 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MULTI CH IN 7.1	*3	×	• (7.1)	×	×	×	×	×	×	×	×	×	×	×	×	×	×
DIRECT																	
DIRECT		0	×	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MULTI CH DIRECT		×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M DIRECT + PLIIx CINEMA	*2 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M DIRECT + PLIIx MUSIC	*1*3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M DIRECT + PLIIz	*1*5	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M DIRECT + Dolby EX	*1 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M DIRECT 7.1	*3	×	(7.1)	×	×	×	×	×	×	×	×	×	×	×	×	×	×
PURE DIRECT																	
PURE DIRECT		0	×	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MULTI CH PURE DIRECT		×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M PURE D + PLIIx CINEMA	*2 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M PURE D + PLIIx MUSIC	*1 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M PURE D + PLIIz	*1 *5	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M PURE D + Dolby EX	*1 *3	×	0	×	×	×	×	×	×	×	×	×	×	×	×	×	×
M CH PURE DIRECT 7.1	*3	×	0 (7.1)	×	×	×	×	×	×	×	×	×	×	×	×	×	×
DSP SIMULATION																	
5CH/7CH STEREO	*4	0	0	0	0	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	0	0	0	0
JAZZ CLUB		0	0	0	0	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	0	0	0	0
VIDEO GAME		0	0	0	0	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	0	0	0	0
VIRTUAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STEREO																	
STEREO			0	•	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE :

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

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

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

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

*5: Not selectable when "Amp Assign" is set to anything other than "Front Height".

• : Mode selectable in initial status

 \mathbb{O} : Mode fixed when "AFDM" is "ON"

 \bigcirc : Selectable mode

 \times : Non-selectable mode

Connections

Settings

Troubleshooting

If a problem should arise, first check the following:

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

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

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

[General]

Symptom	Cause	Countermeasure	Page
Set does not operate properly.	• External noise or interference is causing the set to malfunction.	Reset the microprocessor.	64
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	Check the insertion of the power cord plug.	17
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty.	Check the connections.	11
	• Device you want to play and set input source do not match.	source.	38
	• Master volume is turned too low.	• Adjust the master volume to an appropriate level.	38
	• Mute mode is set.	Cancel the mute mode.	42
	 Headphones are connected. 	• Disconnect the headphones.	42
	• No digital signals are being input.	• Select an input source for which the digital input setting has been made.	33
	• The connectors to which the digital inputs are assigned and the settable input modes do not match.		34
Display is off.	• The "Display" setting is set to "OFF".	• Set to something other than "OFF".	31
	• The PURE DIRECT mode is set.	• Set a surround mode other than the PURE DIRECT mode.	44
"DOLBY DIGITAL" indicator does not appear on display.	 Blu-ray Disc player / DVD player's digital audio output setting is not proper. 		_

Symptom	Cause	Countermeasure	Page
Power switches off suddenly while you are using the AVR-790, the power indicator will flash in red at intervals of approximately 2 seconds.	• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.	 Please switch off power at once, and re-apply the power after the body temperature has fallen sufficiently. Please re-install AVR-790 in a place having good ventilation. 	3
Power switches off suddenly while you are using the AVR-790, the power indicator will flash red at intervals of approximately 0.5 seconds.	 Use speakers having impedance less than that specified. If speaker cable core wires touch each other or the core wires become disconnected from their terminals, the protection circuit will be activated in the event of core wires coming into contact with the AVR-790 rear panel. 	 Please use speakers which have the specified impedance. Unplug the power cord, then after twisting the core wires together tightly again, or effecting termination treatments etc, please reconnect once again. 	12 12
Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.	• The AVR-790 amplifier circuit has failed.	Switch off the power and please contact the DENON service adviser.	-
Set does not work properly when remote control	 Batteries are worn. You are operating outside of the specified range. 	 Replace with new batteries. Operate within the specified range. 	3 3
unit operated.	 Obstacle between main unit and remote control unit. The batteries are not inserted in 	Remove the obstacle.	3
	 the proper direction, as indicated by the polarity marks in the battery compartment. The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). 	 Insert the batteries in the proper direction, following the polarity marks in the battery compartment. Move the set to a place in which the remote control sensor will not be exposed to strong light. 	3
	• Settings do not match the remote control unit's DEVICE SELECT switch.	 Match the settings to the remote control unit's DEVICE SELECT switch. 	52

[Audio]

Symptom	Cause	Countermeasure	Page
No sound is produced from center speaker.	You are playing a monaural source (TV, etc.) in the "STANDARD" (Dolby/DTS Surround) mode.	other than "STANDARD" (Dolby/ DTS Surround).	42
No sound is produced from surround speakers.	• The surround mode is set to "STEREO", "DIRECT" or "PURE DIRECT".	 Set to a surround playback mode. 	42, 43
No sound is produced from surround back	• The surround back speaker's power amplifier is assigned to a different channel.	as necessary.	25
speaker.	• "S.Back" setting is set to "None".	"None".	26
	• The "Parameter" – "Surround Parameter" – "SB CH Out" settings are "OFF".	 Please set "Parameter" – "Surround Parameter" – "SB CH Out" to settings other than "OFF". 	45
	• Surround mode not set to a mode for 6.1- or 7.1-channel playback.	 Select a surround playback mode. 	42
No sound is produced from	• Subwoofer's power not turned on.	• Turn on the subwoofer's power.	-
subwoofer.	• The "Subwoofer" setting at "Speaker Config." is set to "No".		25
	• The subwoofer is not properly connected.	Check the connections.	11
	• The subwoofer's volume is turned off.	 Adjust the subwoofer's volume to an appropriate level. 	50
DTS sound is not output.	• Blu-ray Disc player / DVD player's audio output setting is not set to bitstream.	 Set the Blu-ray Disc player / DVD player. For details, refer to the Blu-ray Disc player / DVD player's operating instructions. 	-
	 Blu-ray Disc player / DVD player is not compatible with DTS sound playback. 	• Use a DTS-compatible player.	-
	 The AVR-790's "Decode Mode" setting is set to "PCM". 	• Set to the "Auto" or "DTS" mode.	35
HDMI audio signals are not output from speakers.	• The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "TV".	Set to "AMP".	28
No sound is output from the monitor connected with HDMI connections.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "AMP".	• Set to "TV".	28

Symptom	Cause	Countermeasure	Page
Dolby TrueHD,	 HDMI is not connected. 	Connect the HDMI.	13
DTS-HD, Dolby	• Blu-ray Disc player's audio output	• Set the Blu-ray Disc player. For	-
Digital Plus audio	setting is not set to bitstream.	details, refer to the Blu-ray Disc	
is not output.		player's operating instructions.	
	• Blu-ray Disc player is not	,	-
	compatible with DTS sound		
	playback.		

[Video] Symptom Cause Countermeasure Page • The connections between the • Check the connections. 13 ~ 16 No picture appears. AVR-790 and monitor are faulty. • The monitor's input setting is • Set properly. _ wrong. PURE DIRECT mode is set. • Cancel the PURE DIRECT mode. 44 • The player is connected using • High definition (1080i/720p) and _ the component input connectors, progressive (480p/576p) video the monitor is connected signals are not down-converted. using the video (yellow) output Set the player to interlace connectors. (480i/576i) signals. • Input source does not match • The video conversion function Picture cannot be 15 recorded. recorder's video connection does not work for the REC connector (video). OUT connectors. Match the input source and recorder connections. DVDs cannot be • This is not a malfunction. Most _ movie software includes copy copied on a DVR. prevention signals and cannot be copied. • When viewing HDMI or 9 The menu screen and status component video signals via the indicators are not AVR-790, the on-screen display appears when the **MENU** button displayed. on the main unit or the MENU button on the main remote control unit. • "OFF" is displayed for the • Set "Manual Setup" - "Option 30 Setup" - "On-Screen Display" status. - "Text" to "ON". • The main volume display is • Set "Manual Setup" - "Option 30 "OFF". Setup" - "On-Screen Display" - "Master Volume" to "Top" or The display during tuner operation "Bottom" is "OFF". • Set when "Manual Setup" 31 - "On-Screen Display" - "Tuner Information" is not "OFF". The display during iPod operation is "OFF". • Set when "Manual Setup" 31

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Getting Started Connections Settings Playback Multi-Zone **Remote Control** Information Troubleshooting Specifications

– "On-Screen Display" – " iPod Information" is not "OFF".

(HDMI)

Symptom	Cause	Countermeasure	Page
HDMI audio signals are not output from speakers.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to"TV"	• Set to "Amp"	28
No picture appears	• The connections to the HDMI connectors are faulty.	Check the connections.	13
with HDMI	• HDMI input setting is improper.	• Check the HDMI input setting.	33
connections.	• The monitor is not compatible with copyright protection (HDCP).	• Connect a monitor that is compatible with copyright protection (HDCP).	12
	• The HDMI format of the player and monitor do not match.	• Match the HDMI format of the player and monitor.	12
No sound is output from the monitor connected with HDMI connections.	The "Manual Setup" – "HDMI Setup" – "HDMI Audio Out" setting is set to "Amp".	• Set to "TV".	28
When performing the following operations on a connected device, AVR-790 has the same operations. • Power ON/OFF • Switching audio output devices • Adjust volume Switch input	• HDMI's CEC function is operating.	• Set "Manual Setup" – "HDMI Setup" – "HDMI Control" to "OFF". When you only want to operate the power on/off each device, set "Power Off Control" to "OFF".	28
 Switch input source 			

[SIRIUS Satellite Radio]

Symptom	Cause	Countermeasure	Page
"CHECK SIRIUS TUNER" is displayed.	• The SiriusConnect Home Tuner unit is not connected.	• Check that the connections are correct.	16
"ANTENNA ERROR" is displayed.	• The antenna is not connected.	• Check that the connections are correct.	16
"NO SIGNAL" is displayed.	• The signal cannot be received.	• Reposition the antenna.	-
"INVALID CHANNEL" is displayed.	• Channel is not present.	• Select another channel.	_
"ACQUIRING SIGNAL" is displayed.	• The signal cannot be received.	• Reposition your SiriusConnect Home Tuner and Home Dock antenna.	_
	• Displays while SiriusConnect Home Tuner is connected.	 Reposition your SiriusConnect Home Tuner and Home Dock antenna. 	-
"Call SIRIUS" * is displayed.	• Channels are not subscribed to.	• If you subscribe to the channel, you can receive the channel.	-
"SUBSCRIPTION UPDATED" is displayed.	• While updating contract information.	_	-
"Enter Lock Code []" is displayed.	 Selected channels are locked. 	Please insert pass word (4 digits) into "[]".	41

*: After scroll displays "Call 888-539-...." twice, displays "Call SIRIUS".

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to "iPod Dock" is not selected.	 Switch to the input source assigned at "iPod Dock". 	33
1 7	• Cable is not properly connected.	• Reconnect.	14
		• Plug the control dock for iPod's AC adapter into a power outlet.	_

Connections

Settings Playback

Restoring all the settings to as they were at the time of purchase (Resetting the Microprocessor)

while simultaneously pressing $\bigcirc^{\text{surround mode}}$ and $\bigcirc^{\text{surround mode}}$ on the main unit.

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

Turn off the power using $\operatorname{OFF}^{\operatorname{ON}}$ on the
--

2

Press OF

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

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

Specifications

Audio section

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• Power amplifier

Rated output:	Front :						
	90 W+90 W	(8 Ω/ohms, 20 Hz ~ 20 kHz w	ith 0.08 % T.H.D.)				
	125 W+125 W	(6 Ω/ohms, 1 kHz with 0.7 %	T.H.D.)				
	Center:						
	90 W	(8 Ω/ohms, 20 Hz ~ 20 kHz w	ith 0.08 % T.H.D.)				
	125 W	(6 Ω/ohms, 1 kHz with 0.7 %	T.H.D.)				
	Surround:						
	90 W+90 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)						
	125 W+125 W	(6 Ω/ohms, 1 kHz with 0.7 %	T.H.D.)				
	Surround Back:						
	90 W+90 W	(8 Ω/ohms, 20 Hz ~ 20 kHz w	ith 0.08 % T.H.D.)				
	125 W+125 W	(6 Ω/ohms, 1 kHz with 0.7 %	T.H.D.)				
Output connectors:	Front, Center, Su	urround, Surround Back / Am	p Assign:				
	$6\sim$ 16 Ω /ohms						
Analog							
Input sensitivity / Input impedance:	200 mV / 47 kΩ/k	cohms					
Frequency response:	10 Hz ~ 100 kHz — +1, -3 dB (DIRECT mode)						
S/N:	100 dB (IHF-A weighted, DIRECT mode)						
		•					
Video section							
Standard video connectors							
Input / output level and impedance:	1 Vp-p, 75 Ω/ohms						
Frequency response:	5 Hz ~ 10 MHz –	– +1, –3 dB					
Color component video connector							
Input / output level and impedance:	• •	nal — 1 Vp-p, 75 Ω/ohms					
	•	0.7 Vp-p, 75 Ω/ohms					
_	•	0.7 Vp-p, 75 Ω/ohms					
Frequency response:	5 Hz ~ 60 MHz -	— +0, –3 dB					
Tuner section	[F	FM]	[AM]				
	-	/ohms, 0 dBf = 1 x 10 ⁻¹⁵ W)					
Receiving Range:	87.5 MHz ~ 107.	9 MHz	520 kHz ~ 1710 kHz				
Usable Sensitivity:	1.2 µV (12.8 dBf)		18 µV				
50 dB Quieting Sensitivity:		/ (20.2 dBf)					
č	STEREO 48.7 µ						
S/N (IHF-A):	MONO 70 dB						
	STEREO 67 dB						
Total harmonic Distortion (at 1 kHz):	MONO 0.7 %						
	STEREO 1.0 %						
Comonal							
General							
Power supply:	AC 120 V, 60 Hz						
Power consumption:	5.5 A						
	0.3 W (Standby)						
Maximum external dimensions:) x 377 (D) mm (17-3/32" x 6-47	7/64″ x 14-27/32″)				
Weight:	10.7 kg (25 lbs 5.	. / OZ)					
Remote control unit (RC-1117)						
Batteries:	R6/AA Type (two	batteries)					
Maximum external dimensions:		x 21 (D) mm (2-3/64" x 9-9/16"	x 53/64")				
Weight:	184 g (Approx 6.5 oz) (including batteries)						
	U						

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

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G Go Video

CineVision

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	Initial	096
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TV/DVD/VCR Combination

Μ	Magnavox	062
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iBUYPOWER

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	11 (default /		014	
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Blu-Ray preset codes / Codes préréglés Blu-Ray	
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	DVD-1800BD DVD-2500BT DVD-3800BD
DE	DVD-A1UDCI

 []*: Preset codes set upon shipment from the factory.
 : Les codes préréglés diffèrent en fonction

: Les codes préréglés diffèrent en fonctiom des livraison de l'usine.



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