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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVR-1708. You'll find the answers to all your questions on the DENON AVR-1708 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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DENON

AV SURROUND RECEIVER

AVR-1708

Owner's Manual

Manuel de l'Utilisateur



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Manual abstract:

@@@3. @@@4. @@@5. **Cleaning** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. 6. **Attachments** Do not use attachments not recommended by the product manufacturer as they may cause hazards. 7. **Water and Moisture** Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like. 8.

@@@@@@@@@9. **A product and cart combination should be moved with care.** Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. 10. **Ventilation** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.

The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. 11. **Power Sources** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

For products intended to operate from battery power, or other sources, refer to the operating instructions. 12. **Grounding or Polarization** This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. **FIGURE A EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION 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.** 13. **Power-Cord Protection** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. 15. **Outdoor Antenna Grounding** If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure

A.

16. **Lightning** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. 17. **Power Lines** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits.

When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. 18. **Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock. 19. **Object and Liquid Entry** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

Never spill liquid of any kind on the product. 20. **Servicing** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 21. **Damage Requiring Service** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a) When the power-supply cord or plug is damaged, b) If liquid has been spilled, or objects have fallen into the product, c) If the product has been exposed to rain or water, d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation, e) If the product has been dropped or damaged in any way, and f) When the product exhibits a distinct change in performance this indicates a need for service. 22. **Replacement Parts**

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. **Safety Check** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. 24. **Wall or Ceiling Mounting** The product should be mounted to a wall or ceiling only as recommended by the manufacturer. 25. **Heat** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. **1 FRANCAIS ENGLISH 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.



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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. · Do not let insecticides, benzene, and thinner come in contact with the unit. · Unplug the power cord when not using the · Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. unit for long periods of time. · Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. n NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION · Keep the unit free from moisture, water, and dust. · Protéger l'appareil contre l'humidité, l'eau et la poussière. · Avoid high temperatures.

Allow for sufficient heat dispersion when installed in a rack. · Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. · Do not let foreign objects into the unit. · Ne pas laisser des objets étrangers dans l'appareil. · Handle the power cord carefully.

Hold the plug when unplugging the cord. · Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. * (For apparatuses with ventilation holes) · Never disassemble or modify the unit in any way.

· Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. · Do not obstruct the ventilation holes. · Ne pas obstruer les trous d'aération. II

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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. Connections Setup Accessories Check that the following parts are supplied with the product. Playback q Owner's manual .

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..... 1 w Getting Started .

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. 1 e Warranty (for North America model only)

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... 1 r Service station list ..

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1 t Main remote control (RC-1075)

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..... 1 y R6P/AA batteries (for RC-1075) ...

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... 2 u Sub remote control (RC-1085)

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... 1 i R03/AAA batteries (for RC-1085) ..

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..... 2 o FM indoor antenna ..

.... 1 Q0 AM loop antenna

... 1 Q1 Setup microphone (Cord length: Approx. 25 ft / 7.6 m).....

..... 1 t u Remote Control Multi-Zone Information Troubleshooting o Q0 Q1 ENGLISH 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. About the Remote Control Unit In addition to the AVR-1708, the included main remote control unit (RC-1075) can also be used to operate the equipment listed below. qDENON system components wNon-DENON system components · By setting the preset memory (vpage 43 ~ 45) NOTE

· Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. · The supplied batteries are only for verifying operation.

· When inserting the batteries, be sure to do so in the proper direction, following the "q" and "w" marks in the battery compartment. · To prevent damage or leakage of battery fluid: · Do not use a new battery together with an old one. · Do not use two different types of batteries. · Do not attempt to charge dry batteries. · Do not short-circuit, disassemble, heat or dispose of batteries in flames.

· If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries. · Remove the batteries from the remote control unit if it will not be in use for long periods. · When replacing the batteries, have the new batteries ready and insert them as quickly as possible. Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting Inserting the Batteries q Lift the clasp and remove the rear lid. (RC-1075) (RC-1085) w Load the two batteries properly as indicated by the marks in the battery compartment.

(RC-1075) R6P/AA Operating Range of the Remote Control Unit Point the remote control unit at the remote sensor when operating it. (RC-1085) R03/AAA Cautions on Installation Note: For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure. b Note b b e Put the rear cover back on. Approx. 23 feet / 7 m 30° 30° or (RC-1085) (RC-1075) NOTE The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light. Wall b

ENGLISH Part Names and Functions For buttons not explained here, see the page indicated in parentheses (). Front Panel W4 W3 W2 W1 W0 Q9 Q8 Q7 Q6 Q5 Q4 Q9 SIGNAL indicators W0 Display W1 Remote control sensor..... (3) W2 ZONE2 / REC SELECT button (41, 49) W3 SOURCE SELECT knob..... (35) W4 SOURCE button (35) W5 INPUT MODE button (35) W6 ANALOG button..... (35) W7 EXT. IN button (35) W8 BAND button..... (36) W9 SHIFT button (37) E0 PRESET CHANNEL buttons (37) E1 TUNING buttons (36) E2 VIDEO SELECT button (36) E3 DIMMER button (36) E4 STATUS button (34) Getting Started Connections Setup Display W5 W6 W7 W8 W9 E0 E1 E2 E3 E4 Playback i u y t r Remote Control q w e r t y u i o Q0 Q1 Q2 Q3 Multi-Zone q q Power operation button (ON/STANDBY) (35) w u ZONE2 indicator e This indicator lights when the ZONE2 is turned on.



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(Off when the "SOURCE" is selected.) Q2 SELECT / ENTER knob (30) q Signal channel indicator Lights when the preset channel is displayed at · The SELECT / ENTER knob on the main unit operates in the same way as the CURSOR o and p buttons on the main remote control unit.

w Power indicator..... (35) e Power switch (hON jOFF) (35, 42) r Headphones jack (PHONES) (36) t SPEAKER buttons (36, 42) y ZONE2 ON/OFF button (49) u QUICK SELECT buttons (42) i V. AUX INPUT connectors Remove the cap covering the connectors when you want to use them. Information w. w Information display e Input signal indicators r Master volume indicator This displays the volume level. The Setup item number is displayed in System Setup. i Tuner reception mode indicators These light according to the reception conditions when the input source is set to "TUNER" . · AUTO This lights when in the auto tuning mode. · STEREO In the FM mode, this lights when receiving analog stereo broadcasts. · TUNED This lights when the broadcast is properly tuned in. Troubleshooting · The control functions in the same way as the CURSOR o button when turned counterclockwise, as the CURSOR p button when turned clockwise.

· The control functions in the same way as the ENTER button when pressed the knob. t ZONE2/REC OUT source indicators The indicator for the source selected for ZONE2/ REC OUT lights. y REC SELECT indicator Lights while selecting the REC SELECT mode. (Off when the "SOURCE" is selected.) o SETUP MIC jack (19) Q0 SYSTEM SETUP button (22) Q1 SURR. MODE / SURR. PARA button (31) Q3 Cursor buttons (ui) (22) Q4 MASTER VOLUME control knob..... (35) Q5 Master volume indicator Q6 AUDYSSEY indicator (33) Q7 SURROUND BACK indicator Q8 INPUT mode indicators (35) ENGLISH Rear Panel Q5 Q4 Q3 Q2 Q1 Q0 o i Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting q q Digital audio connectors (OPTICAL / COAXIAL) (11 ~ 13) w e r t y Q3 VIDEO / S-VIDEO connectors(11) Q4 XM connector (SAT TU) (15) Q5 DOCK CONTROL jack (12) u w Analog audio connectors (AUDIO)(11) e EXT. IN connectors (15) r REMOTE CONTROL jack (17) t PRE OUT connector (9) y ZONE2 connectors..... (17) u AC OUTLETS (17) i Power cord (17) o Speaker terminals (SPEAKERS) (9, 47) Q0 FM/AM antenna terminals (TUNER ANTENNA) (16) Q1 COMPONENT VIDEO connectors(11) Q2 HDMI connectors (10) ENGLISH Remote Control Unit n Main Remote Control Unit (RC-1075) [Front] Q0 q w e r q Indicator (43) w Power buttons..... (35) e Tuner system buttons(37, 40) r Source select buttons (35, 49) t System buttons (40, 44) y Video select button (V.



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SELECT (36) *u* *Cursor buttons (uio p)* (22) *i* *DIMMER button* (36) *o* *Mode selector switches*
..... (36) *Q0 Remote control signal transmitter Q1 Master volume control buttons* (35, 49) *Q2 MUTING button*
(36, 49) *Q3 NIGHT button*..... (33) *Q4 STATUS button* (34) *Q5 Channel select (CH SEL) / ENTER button*
..... (22, 41) *Getting Started [Rear] q ZONE2 power buttons* (49) *w* *Source select buttons* (35, 49) *e*
Tuner system buttons (36, 37) *r* *Test tone button (TEST)* (24, 25) *t* *Main zone power buttons (MAIN)* (35) *y* *Surround*
mode buttons (29, 30) *u* *System setup button (SYSTEM)* (22) *i* *Surround parameter button (PARA)*..... (31) *o* *Enter button (ENT)*
..... (22) *Q0 Input mode button (INPUT)* (35) *Q1 Cursor buttons (uio p)* (22) *Connections q t Setup w*
Playback Remote Control y u i o Q0 r Q1 t Q1 e Multi-Zone Q2 y u t i o Q4 Q5 Q3 Information n Sub remote control unit for ZONE2 (RC-1085) q w i o q
Remote control signal transmitter w Zone power off button (OFF) (46, 49) *e* *CHANNEL buttons* (46) *r* *TUNING buttons*
..... (46) *t* *System buttons* (46) *y* *REPEAT button*..... (46) *u* *RANDOM button*
..... (46) *i* *Zone power on button (ON)* (46, 49) *o* *Source select buttons* (46, 49) *Q0 Volume control buttons*
(VOLUME) (46, 49) *Q1 Muting button (MUTE)*..... (46, 49) *Q2 SHIFT button* (46) *NOTE The DTU button*
cannot be used.



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Troubleshooting Q0 e r t y NOTE If buttons on the front or rear are pressed strongly, the button on the opposite side will be activated too.

Q1 Q2 u The FAVORITES DIRECT PLAY button is for future use. ENGLISH Preparations Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting Connections Connections for all compatible audio and video signal formats are described in these operating instructions.

Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-1708. For details, refer to the instructions for the respective connection items below. Cables Used for Connections Select the cables according to the equipment being connected. Audio cables Coaxial digital connections (Orange) Coaxial digital (75 ohms pin-plug) cable Optical digital connections Optical cable Analog connections (stereo) (White) (Red) L R L R Video cables Component video connections (Green) (Blue) (Red) Component video cable S-Video connections (Y) (PB/CB) (PR/CR) NOTE · Do not plug in the power cord until all connections have been completed. · When making connections, also refer to the operating instructions of the other components. · Be sure to connect the left and right channels properly (left with left, right with right). · Do not bundle power cords together with connection cables.

Doing so can result in humming or noise. S-Video cable Video connections (Yellow) 75 ohms pin-plug video cable Stereo pin-plug cable Analog connections (monaural, for subwoofer) (Black) Pin-plug cable Speaker connections Audio and video cables HDMI connections 19-pin HDMI cable Speaker cables Audio signal: Output Input Signal direction Video signal: Output Input Input Output Input Output ENGLISH Video Conversion Function · This function automatically converts various formats of video signals input to the AVR-1708 into the format used to output the video signals from the AVR-1708 to a monitor. · The AVR-1708's video input/output circuitry is compatible with the following four types of video signals: Digital video signals: HDMI Analog video signals: Component video, S-Video and Video GFlow of video signals inside the AVR-1708H Main zone High picture quality playback HDMI connector HDMI connector Speaker Connections Speaker Installation The illustration below shows a basic example of installation of the amplifier combined with 8 speakers and a monitor. Subwoofer Center speaker Surround back speakers Getting Started Connections Setup Playback Remote Control Component video connectors Component video connectors Monitor S-Video connector S-Video connector Front speakers Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible. Surround speakers Multi-Zone Video connector Video inputs Video connector Video outputs Information The table below shows a typical speaker configuration for the AVR-1708. When not using this function, connect a monitor output with the same type of connector as the video input connector. FRONT L R 7.1-channels (FRONT A+B) 7.1-channels 6.1-channels 5.

1-channels 3.1-channels 2.1-channels 2-channels S S S S S S S S S S S S S S S S CENTER S S S S S SURROUND L R S S S S S S S S SURROUND BACK SUBWOOFER L R 1 only S S S S S Troubleshooting NOTE · HDMI signals cannot be converted into analog signals. · Component input video signals cannot be output to anything other than component video connectors. · When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

ENGLISH Speaker Connections Example: 5.1-channels (FRONT A+B) and ZONE2 use Front speakers A Front speakers B 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-1708, and be sure to interconnect the channels and polarities correctly. Protection circuit If speakers with an impedance lower than specified (for example 4 ohms speakers) are used for an extended period of time with the volume turned up high, the temperature may rise, activating the protection circuit. When the protection circuit is activated, the speaker output is shut off and the power indicator flashes red. If this happens, unplug the power cord, then check the speaker cable and input cable connections.

If the set is extremely hot, wait for it to cool off and improve ventilation around it. Once this is done, plug the power cord back in and turn the set's power back on. If the protection circuit is activated again even though there are no problems in the ventilation around the set nor in the connections, the set may be damaged. Turn the power off, then contact a DENON service center. Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting Subwoofer Center speaker Subwoofer with built-in amplifier w 1 (L) (R) (L) (R) Peel off about 0.03 ft/10 mm q w q w q w q w q of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it. Turn the speaker terminal 2 3 4 counterclockwise to loosen it. Insert the speaker cable's core wire to the hilt into the speaker terminal. Turn the speaker terminal clockwise to tighten it. When using a banana plug Tighten the speaker terminal firmly before inserting the banana plug.

b L : Left R : Right (L) (R) (L) (R) w q w q w q w q NOTE · Use speakers with an impedance of 6 to 16 ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 12 to 16 ohms. · Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other (v "Protection circuit"). · Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock. Surround speakers ZONE2 speakers ZONE2 When using just one surround back speaker, connect it to the left channel (SBL). NOTE By default, the AVR-1708's "Amp Assign" setting is set to "ZONE2" To use as the surround back speaker · for the main zone, change the "Amp Assign" setting (vpage 27). ENGLISH Connecting Equipment with HDMI connectors With HDMI connections, the video and audio signals can be transferred with a single cable.

DVD player Monitor NOTE · The audio signal input to the HDMI input connector cannot be played on the AVR-1708.



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Input the audio signal to the digital audio input connector or analog audio input connector. · The AVR-1708 cannot be controlled from another device via the HDMI cable. · Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.

· Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product). · If the monitor or DVD player does not support Deep Color, deep color signal transfer is not possible. · If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible. Getting Started Connections L R Setup Playback L R · The audio and video signals input to the AVR-1708's HDMI input connector are output unchanged from the HDMI output connector.

Because of this, the sound is output from the monitor connected using the HDMI connectors, but in order to take full advantage of the AVR-1708's playback sound, turn the TV's volume down. · If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. When using a DVI cable, no audio signals are transmitted. · Use a Deep Color compatible cable for connection to Deep Color compatible devices. Remote Control When connecting with an HDMI/DVI converter cable (adapter) · HDMI video signals are theoretically compatible with the DVI format. When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output. · When connecting using an HDMI/DVI converter adapter, the video signals may not be output properly due to poor connections with the connected cable, etc. Multi-Zone Information Troubleshooting b The AVR-1708 is equipped for HDMI version 1.3a.

This version is compatible with other versions, allowing connection to all components equipped with an HDMI connector. b The AVR-1708 is compatible with 30- and 36-bit Deep Color. b The AVR-1708 can be connected to a device equipped with an HDMI output connector using an HDMI cable. b The AVR-1708 is compatible with HDMI Ver. 1.3a Deep Color and xvYCC. 0 ENGLISH Connecting the Monitor Connect the cables to be used (vpage 8 "Video Conversion Function"). Monitor Connecting the Playback Components Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly. Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting DVD Player · Connect the cables to be used. · With HDMI connections, the video and audio signals can be transferred with a single cable.

DVD player L R L R NOTE · The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions. · To play the sound by AVR-1708, make analog or digital audio output connections to AVR-1708's audio input connectors. · The signals output from the HDMI connectors are only the HDMI input signals. · Connect an HDP (High-Definition Player) in the same way.

· When using a optical cable for the digital audio connection, make the settings at "System Setup" "Input Setup" "Digital In Assign" (vpage 25). ENGLISH CD Player Connect the cables to be used. CD player iPod® Use a DENON Control Dock for iPod (ASD-IR, sold separately) to connect the iPod to the AVR-1708. For instructions on the Control Dock for iPod settings, refer to the Control Dock for iPod's operating instructions. iPod Getting Started Connections L R Setup Playback L R L R Remote Control R L Multi-Zone Information Troubleshooting When using a coaxial cable for the digital audio connection, make the settings at "System Setup" "Input Setup" "Digital In Assign" (vpage 25).

· With the default settings, the iPod can be used connected to the VCR (iPod) connector. · To assign the iPod to a connector other than VCR (iPod), make the settings at "System Setup" "Input Setup" "iPod Assign" (vpage 26). ENGLISH TV/CABLE Tuner Connect the cables to be used. TV tuner Connecting the Recording Components Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly. Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting Video Cassette Recorder Connect the cables to be used. Video cassette recorder L R L R L R L R or L R L R When using a optical cable for the digital audio connection, make the settings at "System Setup" "Input Setup" "Digital In Assign" (vpage 25). · When recording via the AVR-1708, the playback device's cable must be of the same type as the cable used to connect the AVR-1708's VCR OUT connector. Example: TV IN S-Video cable : VCR OUT S-Video cable TV IN Video cable : VCR OUT Video cable · When using a component video cable for the video connection, make the settings at "System Setup" "Input Setup" "Component In Assign" (vpage 26). ENGLISH CD Recorder / MD Recorder / Tape Deck Connect the cables to be used. CD recorder / MD recorder / Tape deck Connections to Other Devices Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Getting Started Video Camera / Game Console Connect the cables to be used. Video camera / Game console Connections Setup L R L R Playback L R L R L R Remote Control L R Multi-Zone Information Troubleshooting ENGLISH Component with Multi-channel Output connectors Connect the cables to be used.

DVD player / External decoder XM connector · The AVR-1708 is an XM Ready® receiver. You can receive XM® Satellite Radio by connecting to the XM Mini-Tuner and Home Dock (includes home antenna, sold separately) and subscribing to the XM service. · Plug the XM Mini-Tuner and Home Dock into the XM connector on the rear panel. · Position the Home Dock antenna near a south-facing window to receive the best signal. For details, see "Listening to XM Satellite Radio Programs" (vpage 38, 39). When making connections, also refer to the operating instructions of the XM Mini-Tuner and Home Dock. Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting L R L R L R XM Mini-Tuner and Home Dock L R L R L R XM · To play the analog input signals input to the EXT.



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IN connectors, press the EXT.

IN button on the main unit or the INPUT button on the main remote control unit and select "EXT. IN" (vpage 35). · The video signal can be connected in the same way as a DVD player (vpage 11). · To play copyright-protected discs, connect the AVR-1708's EXT. IN connector with the DVD player's analog multi-channel output connector.

NOTE Keep the power cord unplugged until the XM Mini-Tuner and Home Dock connection have been completed. · The XM name and related logo are registered trademarks of XM Satellite Radio Inc. All rights reserved. · XM Ready is a registered trademark of XM Satellite Radio Inc. All rights reserved. ENGLISH Antenna terminals An F-type FM antenna cable plug can be connected directly. Direction of broadcasting station FM antenna Getting Started Connections AM loop antenna (supplied) 75 ohms Coaxial cable FM indoor antenna (supplied) Setup Playback Remote Control Multi-Zone Information Connection of AM antennas AM outdoor antenna 1. Push the lever. Ground 2. Insert the conductor. 3. Return the lever. Troubleshooting AM loop antenna assembly Connect to the AM antenna terminals. NOTE · Do not connect two FM antennas simultaneously. · Even if an external AM antenna is used, do not disconnect the AM loop antenna.

· Make sure the AM loop antenna lead terminals do not touch metal parts of the panel. Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. Remove the vinyl tie and take out the connection line. a. With the antenna on top of any stable surface. Bend in the reverse direction. b. With the antenna attached to a wall. Mount Installation hole Mount on wall, etc. ENGLISH Multi-zone ZONE2 Out Connections If another pre-main (integrated) amplifier or power amplifier is connected, the ZONE2 out connectors can be used to play a different program source in ZONE2 the same time (vpage 47 ~ 49).

Pre-main amplifier (ZONE2) Connecting the Power Cord Wait until all connections have been completed before connecting the power cord. Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting Power cord To household power outlet (AC 120 V, 60 Hz) Connection to the AC outlets · These outlets supply power to external audio devices. · The power supplied from these outlets turns on and off together with the set's power switch. · Audio equipment with a total power consumption of 120 W (1 A) can be connected. L R L R NOTE · Insert the AC plugs securely.

Incomplete connections could cause noise. · Only use the AC outlets to plug in audio devices. Do not use them as power supplies for hairdryers or anything other than audio equipment. Once Connections are Completed Turning the Power On (vpage 35) Input Infrared retransmitter Output Infrared sensor Extension jack for future use. NOTE · For the audio output, use high quality pin-plug cords so that no induction humming or noise is produced.

· For instructions on installing and operating separately sold devices, refer to the respective devices' operating instructions. · To conduct multi-zone playback, see "Amp Assign / Multi-zone Connections and Operations" (vpage 47 ~ 49). ENGLISH Examples of Front Display Getting Started Operations Menu Map Auto Setup (vpage 19 ~ 21) b When the setup microphone is connected. n Start Menu · Step 1: Speaker Detection · Step 2: Measurement · Step 3: Calculation · Step 4: Check · Step 5: Store Some typical examples are described below. Item number Currently selected line W Connections Menu number Current setting 1 HDMI1 DVD Setup Playback Q 17 T.Tone Yes < Press the o button to select. Remote Control System Setup (vpage 22 ~ 29) n Speaker Setup (vpage 23 ~ 25) · Speaker Configuration · Subwoofer Setup · Distance · Crossover Frequency · Test Tone n Input Setup (vpage 25 ~ 27) · HDMI In Assign · Digital In Assign · iPod Assign · Component In Assign · Video Convert · Audio Delay · EXT. IN Subwoofer Level · Auto Preset Memory · Antenna Aiming n Option Setup (vpage 27 ~ 29) · Amp Assign · Volume Control · Volume Limit · Power On Level · Mute Level · 2ch Direct/Stereo · Auto Surround Mode · Room EQ Setup · Direct Mode Setup · Remote ID Setup Currently selected line Multi-Zone Information Troubleshooting Parameter (vpage 31 ~ 33) n Surround Parameter · MODE · CINEMA EQ · D.COMP · LFE · CENTER IMAGE · PANORAMA · DIMENSION · CENTER WIDTH · DELAY TIME EFFECT LEVEL ROOM SIZE SB CH OUT SUBWOOFER ATT. Subwoofer Default · Tone Control · Tone Defeat · Bass · Treble · Room EQ · RESTORER · Night Mode Information (vpage 34) n Status n Audio Input Signal ENGLISH · Audyssey MultEQ® automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.

· It optimizes a large listening area where one or more listeners are seated. Measurements are performed by placing the calibrated microphone (DM-A405) successively at multiple positions throughout the listening area as shown in Example q. 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 w, measuring at multiple points throughout the listening environment results in more effective correction. Example q Example w Sound receptor Auto Setup MASTER VOLUME ui 1 2 3 Preparations Press <SPEAKER> to select the front speakers Front Getting Started Connections Setup Playback Remote Control Multi-Zone Information Troubleshooting A, Front B or Front A+B. surround back speaker channels is used (vpage 27). <SETUP MIC>. Set "Amp Assign" to define how the amplifier for the Connect the included calibrated setup microphone to "Auto Set Start" is displayed. <SPEAKER> <SETUP MIC> ENTER, o [Front] (:Measuring positions) *M *M 4 Place the microphone at ear height on a tripod or stand MASTER VOLUME ENTER 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.



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