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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVR-1804. You'll find the answers to all your questions on the DENON AVR-1804 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

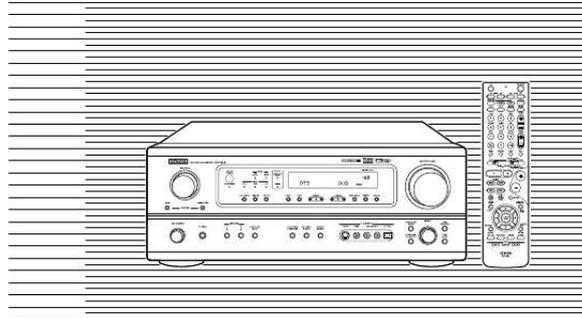
User manual DENON AVR-1804
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DENON

AV SURROUND RECEIVER
RÉCEPTEUR AUDIO-VIDÉO

AVR-1804/884

OPERATING INSTRUCTIONS
MODE D'EMPLOI



FOR ENGLISH READERS PAGE 2 - PAGE 66, 128 - 132
POUR LES LECTEURS FRANÇAIS PAGE 2, 66 - PAGE 132

■ We greatly appreciate your purchase of the AVR-1804/884.
■ To be sure you take maximum advantage of all the features the AVR-1804/884 has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.

■ Nous vous remercions de l'achat de l'AVR-1804/884.
■ Pour être sûr de profiter au maximum de toutes les caractéristiques qu'a à offrir l'AVR-1804/884, lisez avec soin ces instructions et bien utiliser l'appareil. Toujours conserver ce mode d'emploi pour s'y référer ultérieurement en cas de question ou de problème.



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Manual abstract:

ENGLISH FRANCAIS · FOR CANADA MODEL ONLY 2 SAFETY PRECAUTIONS WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. CAUTION TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. · POUR LES MODELE CANADIEN UNIQUEMENT CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN ATTENTION POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTERODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND. CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USERSERVICEABLE 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. This device complies with Part 15 of the FCC Rules. @@@@DE SERIE PRIERE DE NOTER LE NUMERO DE SERIE DE L'APPAREIL INSCRIT A L'ARRIERE DU COFFRET DE FAÇON A POUVOIR LE CONSULTER EN CAS DE PROBLEME.

" 2 NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION · Avoid high temperatures. Allow for sufficient heat dispersion when installed on a rack. · Eviter des températures élevées Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. · Keep the set free from moisture, water, and dust. · Protéger l'appareil contre l'humidité, l'eau et lapoussière.

· Do not let foreign objects in the set. · Ne pas laisser des objets étrangers dans l'appareil. · Unplug the power cord when not using the set for long periods of time. · Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. · Do not let insecticides, benzene, and thinner come in contact with the set.

· Ne pas mettre en contact des insecticides, du benzène et un diluant avec 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 sets with ventilation holes) · Do not obstruct the ventilation holes. · Ne pas obstruer les trous d'aération. · Never disassemble or modify the set in any way. · Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. 2 SAFETY INSTRUCTIONS 1.

2. 3. 4. 5. 6. 7. Read Instructions All the safety and operating instructions should be read before the product is operated. Retain Instructions The safety and operating instructions should be retained for future reference. Heed Warnings All warnings on the product and in the operating instructions should be adhered to. Follow Instructions All operating and use instructions should be followed.

Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. 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. Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table.

The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 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.

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. 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. 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 13. 15. 16. 8. 17. 9. 18. 19. 10. 20. 21. 11. 12.

22. ANTENNA LEAD IN WIRE 23. GROUND CLAMP 24. ANTENNA DISCHARGE UNIT (NEC SECTION 810-20) 25. ELECTRIC SERVICE EQUIPMENT 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.

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. 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.



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This will prevent damage to the product due to lightning and power-line surges. 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. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock. 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.

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. 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. 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. 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. Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. GROUNDING CONDUCTORS (NEC SECTION 810-21) GROUND CLAMPS POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H) NEC - NATIONAL ELECTRICAL CODE 3 ENGLISH 2 INTRODUCTION Thank you for choosing the DENON AVR-1804/884 Digital Surround A/V receiver.

This remarkable component has been engineered to provide superb surround sound listening with AV theater sources such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources. As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding. TABLE OF CONTENTS z x c v b n m , . /0/1 Before

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.....(36, 38) 8 ENGLISH 6 READ THIS FIRST This AV Surround Receiver must be setup before use. Following these steps.

Step 1 (page 9 to 18) Choose the best location to setup the Speakers and connecting the components. Step 2 (page 19) Next, insert the batteries into the remote control unit. Step 3 (page 20 to 29) Finally, setting up the system. 7 SETTING UP THE SPEAKER SYSTEMS 2 Speaker system layout Basic system layout · The following is an example of the basic layout for a system consisting of 7 speaker systems and a television monitor: Subwoofer Center speaker system Surround back speaker system Front speaker systems Set these at the sides of the TV or screen with their front surfaces as flush with the front of the screen as possible. Surround speaker systems 9 ENGLISH 8 CONNECTIONS · Do not plug in the AC cord until all connections have been completed.



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· Be sure to connect the left and right channels properly (left with left, right with right). · Insert the plugs securely. Incomplete connections will result in the generation of noise. · Use the AC OUTLETS for audio equipment only. Do not use them for hair driers, etc.
· Note that binding pin plug cords together with AC cords or placing them near a power transformer will result in generating hum or other noise. · Noise or humming may be generated if a connected audio equipment is used independently without turning the power of this unit on. If this happens, turn on the power of the this unit. Connecting the audio components · When making connections, also refer to the operating instructions of the other components. The power to these outlets is turned on and off when the power is switched between on and standby from the remote control unit or power switch.

OUTPUT R L CD player DIGITAL AUDIO Connecting a CD player Connect the CD player's analog output jacks (ANALOG OUTPUT) to this unit's CD jacks using pin plug cords. R L Connecting the AC OUTLETS Connecting a turntable Connect the turntable's output cord to the AVR-1804/884's PHONO jacks, the L (left) plug to the L jack, the R (right) plug to the right jack. NOTES: · This unit cannot be used with MC cartridges directly. Use a separate head amplifier or step-up transformer. · If humming or other noise is generated when the ground wire is connected, disconnect the ground wire.
AC OUTLETS · SWITCHED (total capacity 120 W (1 A.)) The power to these outlets is turned on and off in conjunction with the POWER operation switch on the main unit, and when the power is switched between on and standby from the remote control unit. No power is supplied from these outlets when this unit's power is at standby. Never connect equipment whose total capacity is above 120 W (1 A.). NOTE: Only use the AC OUTLETS for audio equipment. Never use them for hair driers, TVs or other electrical appliances. Subwoofer jack Connect the internal amplifier's subwoofer to the subwoofer terminal. (Refer to page 17.) Turntable (MM cartridge) L R R L R L Ground wire R L AC CORD MD recorder, CD recorder or other component equipped with digital input/output jack B AC 120 V, 60 Hz Route the connection cords, etc.

, in such a way that they do not obstruct the ventilation holes. OUTPUT INPUT OPTICAL R DIGITAL AUDIO L R L CD recorder or Tape deck B COAXIAL OPTICAL OUTPUT CD player or other component equipped with digital output jacks R INPUT L R L OUTPUT NOTE: If humming noise is generated by a tape deck, etc., move the tape deck away. Connecting the DIGITAL jacks Use these for connections to audio (video) equipment with digital output. Refer to page 26 for instructions on setting this terminal. NOTES: · Use 75 ohms cable pin cords for coaxial connections. · Use optical cables for optical connections, removing the cap before connecting. · The main unit's power must be turned on when recording via the AVR-1804/884. Connecting a tape deck Connections for recording: Connect the tape deck's recording input jacks (LINE IN or REC) to this unit's tape recording (CDR/TAPE OUT) jacks using pin plug cords. Connections for playback: Connect the tape deck's playback output jacks (LINE OUT or PB) to this unit's tape playback (CDR/TAPE IN) jacks using pin plug cords.

10 ENGLISH Connecting video components · · · · To connect the video signal, connect using a 75 ohms video signal cable cord. Using an improper cable can result in a drop in video quality. When making connections, also refer to the operating instructions of the other components. The AVR-1804/884 is equipped with a function for up-converting video signals. The signal connected to the video signal terminal is output to the S-Video monitor out terminals. The REC OUT terminals have no conversion function, so when recording only connect the video terminals. TV or DBS tuner AUDIO R OUT Connecting a TV/DBS tuner TV/DBS · Connect the TV's or DBS tuner's video output jack (VIDEO OUTPUT) to the VIDEO (yellow) TV/DBS IN jack using a 75 ohms video coaxial pin plug cord. · Connect the TV's or DBS tuner's audio output jacks (AUDIO OUTPUT) to the AUDIO TV/DBS IN jacks using pin plug cords. L VIDEO OUT B R L DVD player or video disc player (VDP), etc. AUDIO R OUT L VIDEO OUT B R L Connecting a DVD player or a video disc player (VDP) DVD · Connect the video disc player's video output jack (VIDEO OUTPUT) to the VIDEO (yellow) DVD/VDP IN jack using a 75 ohms video coaxial pin plug cord.

· Connect the video disc player's analog audio output jacks (ANALOG AUDIO OUTPUT) to the AUDIO DVD/VDP IN jacks using pin plug cords. · It is also possible to connect a video disc player, DVD player, video game, etc., to the VCR-2 jacks. Monitor TV VIDEO IN R L R L R L R L L Connecting a Monitor TV MONITOR OUT · Connect the TV's video input jack (VIDEO INPUT) to the VIDEO MONITOR OUT jack using a 75 ohms video coaxial pin plug cord. R L Note on connecting the digital input jacks · Only audio signals are input to the digital input jacks. For details, see pages 10, 26. R L R L Video deck 2 R OUT L R IN L AUDIO OUT IN VIDEO R L R L Video deck 1 R OUT L R IN L AUDIO OUT IN VIDEO Connecting a video decks · There are two sets of video deck (VCR) jacks, so two video decks can be connected for simultaneous recording or video copying. Video input/output connections: · Connect the video deck's video output jack (VIDEO OUT) to the VIDEO (yellow) VCR-1 IN jack, and the video deck's video input jack (VIDEO IN) to the VIDEO (yellow) VCR-1 OUT jack using 75 ohms video coaxial pin plug cords. Connecting the audio output jacks · Connect the video deck's audio output jacks (AUDIO OUT) to the AUDIO VCR-1 IN jacks, and the video deck's audio input jacks (AUDIO IN) to the AUDIO VCR-1 OUT jacks using pin plug cords. Connect the second video deck to the VCR-2 jacks in the same way.

11 ENGLISH Connecting a video component equipped with S-Video jacks · When making connections, also refer to the operating instructions of the other components. · A note on the S input jacks The input selectors for the S inputs and pin jack inputs work in conjunction with each other. · The AVR-1804/884 is equipped with a function for converting video signals. · The signal connected to the S-Video signal terminal is output to the composite video monitor out terminals. · The REC OUT terminals have no conversion function, so when recording only connect the S-Video terminals.



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Connecting a TV/DBS tuner · Connect the TV's or DBS tuner's S video output jack (S-VIDEO OUTPUT) to the S-VIDEO TV/DBS IN jack using an S jack connection cord. S-VIDEO OUT B DVD player or video disc player (VDP) S-VIDEO OUT B TV or satellite broadcast tuner Connecting a DVD player or a video disc player (VDP) DVD · Connect the DVD/VDP player's S-Video output jack to the S-VIDEO DVD/VDP IN jack using an S-Video connection cord. · It is also possible to connect a video disc player, DVD/VDP player, video camcorder, game machine, etc., to the VCR-2 jacks. S-VIDEO IN Monitor TV Connecting a monitor TV MONITOR OUT · Connect the TV's S video input (S-VIDEO INPUT) to the S-VIDEO MONITOR OUT jack using a S jack connection cord.

S-VIDEO IN OUT Video deck 2 Connecting the video decks · Connect the video deck's S output jack (S-OUT) to the S-VIDEO VCR-1 IN jack and the video deck's S input jack (S-IN) to the S-VIDEO VCR-1 OUT jack using S jack connection cords. · Connect the video deck's S output jack (S-OUT) to the S-VIDEO VCR-2 IN jack and the video deck's S input jack (S-IN) to the S-VIDEO VCR-2 OUT jack using S jack connection cords. S-VIDEO IN OUT Video deck 1 Connect the components' audio inputs and outputs as described on page 11. 12 ENGLISH Connecting a Video Component Equipped with Color Difference (Component - Y, PR/CR, PB/CB) Video Jacks (DVD Player) · When making connections, also refer to the operating instructions of the other components. ·

The signals input to the color difference (component) video jacks are not output from the VIDEO output jack (yellow) or the S-Video output jack. In addition, the video signals input to the VIDEO input (yellow) and S-Video input jacks are not output to the color difference (component) video jacks. · Some video sources with component video outputs are labeled Y, CB, CR, or Y, Pb, Pr, or Y, R-Y, B-Y. These terms all refer to component video color difference output. · At SYSTEM SETUP, the component video input terminal can be assigned for the input sources to which you want to connect AV devices. (For details, see page 26.

) COMPONENT VIDEO OUT Y CB CR DVD player B Connecting a DVD player DVD IN jacks · Connect the DVD player's color difference (component) video output jacks (COMPONENT VIDEO OUTPUT) to the COMPONENT DVD IN jack using 75 /ohms coaxial video pin-plug cords. · In the same way, another video source with component video outputs such as a TV/DBS tuner, etc., can be connected to the TV/DBS color difference (component) video jacks. Monitor TV COMPONENT VIDEO IN Y CB CR Connecting a monitor TV MONITOR OUT jack · Connect the TV's color difference (component) video input jacks (COMPONENT VIDEO INPUT) to the COMPONENT MONITOR OUT jack using 75 /ohms coaxial video pin-plug cords. · The color difference input jacks may be indicated differently on some TVs, monitors or video components ("CR, CB and Y", "RY, B-Y and Y", "Pr, Pb and Y", etc.). For details, carefully read the operating instructions included with the TV or other component. · Video Conversion signals Monitor Output jacks Signal input to the AVR-1804/884 Video signal output to VIDEO MONITOR OUT jack (yellow) Video signal output to S-Video MONITOR OUT jack C Video signal output to color difference (component) Video MONITOR OUT jack E Video signal input jack C (Up-conversion) C S-Video signal input jack Color difference (component) Video signal input jack C (Down-conversion) E E E C (C : Video signal output, E : Video signal not output) 13 ENGLISH Connecting the antenna terminals DIRECTION OF BROADCASTING STATION FM ANTENNA AM LOOP ANTENNA (Supplied) 75 /ohms COAXIAL CABLE FM ANTENNA ADAPTER FEEDER CABLE FM INDOOR ANTENNA (Supplied) AM OUTDOOR ANTENNA GROUND AM loop antenna assembly Connect to the AM antenna terminals. 1 2 3 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. 4 Remove the vinyl tie and take out the connection line.

Bend in the reverse direction. a. With the antenna on top any stable surface. Mount b. With the antenna attached to a wall. Notes: · Do not connect two FM antennas simultaneously. · Even if an external AM antenna is used, do not disconnect the AM loop antenna. · Make sure AM loop antenna lead terminals do not touch metal parts of the panel. Installation hole Mount on wall, etc. Connection of AM antennas 1. Push the lever. 2. Insert the conductor. 3. Return the lever.

14 ENGLISH Connecting the external input (EXT. IN) jacks · These jacks are for inputting multi-channel audio signals from an outboard decoder, or a component with a different type of multi-channel decoder, such as a DVD Audio player, or a multi-channel SACD player, or other future multi-channel sound format decoder. · When making connections, also refer to the operating instructions of the other components. R L R L Surround Subwoofer Decoder with 6channel analog output For instructions on playback using the external input (EXT. IN) jacks, see page 38.

Connecting the video component equipped with a V. AUX jacks To connect the video signal, connect using a 75 /ohms video signal cable cord. Using an improper cable can result in a drop in sound quality. Front Center Video game OUTPUT R L OPTICAL VIDEO OUT S-VIDEO OUT Connecting a Video game component · Connect the Video game component's output jacks to this unit's V. AUX INPUT jacks. R L DIGITAL OUT VIDEO OUT L R Video camera OUTPUT R L VIDEO OUT S-VIDEO OUT S-VIDEO OUT LINE OUT Connecting a video camera component · Connect the video camera component's output jacks to this unit's V. AUX INPUT jacks. R L LINE OUT VIDEO OUT S-VIDEO OUT The V. AUX jacks is covered with a cap. Remove this cap in order to use the terminal.

(See page 5 for instructions on removing the cap.) 15 ENGLISH Connecting the ZONE2 jacks · If another pre-main (integrated) amplifier is connected, the ZONE2 jacks can be used to play a different program source in ZONE2 at the same time. L R Extension jacks for future use. ZONE2 Integrated pre-main amplifier B RC-617 INFRARED SENSOR RC-616 INFRARED RETRANSMITTER OUTPUT INPUT + + AUX OUT Speaker system connections · Connect the speaker terminals with the speakers making sure that like polarities are matched (with , with). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.



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· When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel. NOTE: NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks. Speaker Impedance · When speaker systems A (I) and B (II) are used separately, speakers with an impedance of 6 to 16 ohms can be connected for use as front and surround back/ZONE2 speakers. · Be careful when using two pairs of front and Surround Back/ZONE2 speakers (A + B) and (I + II) at the same time, since use of speakers with an impedance of 12 to 16 ohms.

· Speakers with an impedance of 6 to 16 ohms can be connected for use as center and surround speakers. · The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance are connected. Connecting the speaker cords 1. Loosen by turning counterclockwise. 2.

Insert the cord. 3. Tighten by turning clockwise. Connecting banana plugs Banana plug 1. Push the lever.

2. Insert the cord. 3. Return the lever. Turn clockwise to tighten, then insert the banana plug. 16 ENGLISH Connections · When making connections, also refer to the operating instructions of the other components. Connection jack for subwoofer with built-in amplifier (super woofer), etc. SURROUND BACK/MULTI ZONE SPEAKER SYSTEMS NOTES: · To use Surround back with one speaker, connect the speaker to SURR. BACK (I). · The settings must be changed to use this speaker for ZONE2.

(See page 28) · The same signal is output simultaneously to the SURR.BACK/ZONE2 I and II terminals. (II) (I) (L) (R) (L) (R) CENTER SPEAKER SYSTEM (L) (R) FRONT SPEAKER (B) SYSTEMS FRONT SPEAKER (A) SYSTEMS SURROUND SPEAKER SYSTEMS · Precautions when connecting speakers If a speaker is placed near a TV or video monitor, the colors on the screen may be disturbed by the speaker's magnetism. If this should happen, move the speaker away to a position where it does not have this effect. 17 ENGLISH Protector circuit · This unit is equipped with a high-speed protection circuit. The purpose

of this circuit is to protect the speakers under circumstances such as when the output of the power amplifier is inadvertently short-circuited and a large current flows, when the temperature surrounding the unit becomes unusually high, or when the unit is used at high output over a long period which results in an extreme temperature rise. When the protection circuit is activated, the speaker output is cut off and the power supply indicator LED flashes. Should this occur, please follow these steps: be sure to switch off the power of this unit, check whether there are any faults with the wiring of the speaker cables or input cables, and wait for the unit to cool down if it is very hot. Improve the ventilation condition around the unit and switch the power back on. If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

Note on speaker impedance · The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance (for example speakers with an impedance of lower than 4 ohms) are connected. If the protector circuit is activated, the speaker output is cut off. Turn off the set's power, wait for the set to cool down, improve the ventilation around the set, then turn the power back on. 18 ENGLISH 9 USING THE REMOTE CONTROL UNIT Following the procedure outlined below, insert the batteries before using the remote control unit. Range of operation of the remote control unit Point the remote control unit at the remote control sensor as shown on the diagram at the left.

NOTES: · The remote control unit can be used from a straight distance of approximately 23 feet/7 meters, but this distance will shorten or operation will become difficult if there are obstacles between the remote control unit and the remote control sensor, if the remote control sensor is exposed to direct sunlight or other strong light, or if operated from an angle. · Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible. 30° 30° Approx. 23 feet/7 m Inserting the batteries q Press as shown by the arrow and slide off. w Insert the R6P/AA batteries properly, as shown on the diagram.

e Close the lid. NOTES: · Use only R6P/AA batteries for replacement. · Be sure the polarities are correct. (See the illustration inside the battery compartment.) · Remove the batteries if the remote control transmitter will not be used for an extended period of time. · If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries. · Have replacement batteries on hand so that the old batteries can be replaced as quickly as possible when the time comes. · Even if less than a year has passed, replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the set.

(The included battery is only for verifying operation. Replace it with a new battery as soon as possible.) 19 ENGLISH 10 SETTING UP THE SYSTEM · Once all connections with other AV components have been completed as described in "CONNECTIONS" (see pages 10 to 18), make the various settings described below on the display. These settings are required to set up the listening room's AV system centered around this unit. · Use the following buttons to set up the system: 1 2 Set the slide switch to "AUDIO". Use the following buttons to set up the system: SYSTEM SETUP button Press this to display the system setup on the display. CURSOR buttons (., 0, 1) Press this change what appears on the display. ENTER button Press this to switch the display. Also use this button to complete the setting. · System setup items and default values (set upon shipment from the factory) System setup Speaker Configuration Subwoofer mode Crossover Frequency Delay Time Input the combination of speakers in your system and their corresponding sizes (SMALL for regular speakers, LARGE for fullsize, full-range) to automatically set the composition of the signals output from the speakers and the frequency response.

This selects the subwoofer speaker for playing deep bass signals. Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer.



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This parameter is for optimizing the timing with which the audio signals are produced from the speakers and subwoofer according to the listening position. This adjusts the volume of the signals output from the speakers and subwoofer for the different channels in order to obtain optimum effects. Input source Digital In Assignment This assigns the digital input jacks for the different input sources.

Digital Inputs Input source Video In Assignment This assigns the component video input jacks for the different video input sources. Component Inputs Front L 12 ft Front L 0 dB CD COAXIAL DVD/VDP VIDEO 1 Front R 12 ft Front R 0 dB DVD/VDP OPTICAL 1 TV/DBS VIDEO 2 Center 12 ft Center 0 dB TV/DBS OPTICAL 2 VCR-1 OFF Front Sp. Large Center Sp. Small Default settings Surround Sp. Small LFE (Normal) 80 Hz Surround L 10 ft Surround L 0 dB Surround R 10 ft Surround R 0 dB VCR-1 OFF VCR-2 OFF Surround Back 10 ft Surround Back 0 dB VCR-2 OFF V.

AUX OFF Subwoofer 12 ft Subwoofer 0 dB CDR/TAPE OPTICAL 3 -- -- Surround Back Sp. Small Subwoofer Yes Test Tone Auto Surround Mode Ext. In SW Level Power AMP Assignment On Screen Display Auto surround mode function setting. Set the Ext. In Subwoofer channel playback level. Set this to switch the surround back channel's power amplifier for use for Zone 2. This sets whether or not to display the on-screen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated. A1 ~ A8 B1 ~ B8 Auto Surround Mode = ON Ext. In SW Level = +15 dB Surround Back ON 87.5/89.

1/98.1/107.9/90.1/90.1/90.1 MHz 520/600/1000/1400/1500/1710 kHz, 90.1/90.1 MHz 90.1 MHz 90.

1 MHz 90.1 MHz Auto Tuner Presets FM stations are received automatically and stored in the memory. C1 ~ C8 D1 ~ D8 E1 ~ E8 20 ENGLISH NOTES: · The AVR-1804/884's on-screen display function is designed for use with high resolution monitor TVs, so it may be difficult to read small characters on TVs with small screens or low resolutions. · The setup menu is not displayed when headphones are being used. · The system setup is not displayed when "HEADPHONE ONLY" is selected.

Before setting up the system 1 (Main unit) (Remote control unit) Check that all the components are correct, then press the POWER operation switch on the main unit or the POWER button on the remote control unit to turn on the power. 2 Press the SYSTEM SETUP button to enter the setting. *SYSTEM SET UP NOTE: Please make sure the "AUDIO" position of the slide switch on the remote control unit. 3 Press the ENTER or (down) button to switch to the speaker configuration set up. NOTE: Press the SYSTEM SETUP button again to finish system set up.

System set up can be finished at any time. The changes to the settings made up to that point are entered. 21 ENGLISH Setting the type of speakers · Set up in function of your speaker systems. Performing this setup optimizes the system. · The composition of the signals output to the different channels and the frequency response are adjusted automatically according to the combination of speakers actually being used. 1 Set whether or not speakers are connected and, if so, their size parameters. · To select the speaker Front Sp. Center Sp. Front Sp. Subwoofer Listening position Surround Sp.

Surround Sp. Surround back Sp. · To select the parameter 1 FRONT LARGE 2 Press the ENTER or setting. (down) button to enter the settings and switch to the SUBWOOFER MODE · Parameters Large..... Select this when using speakers that can fully reproduce low sounds of below 80 Hz. Small.....

· Select this when using speakers that cannot reproduce low sounds of below 80 Hz with sufficient volume. When this setting is selected, low frequencies of below 80 Hz are assigned to the subwoofer. None..

.... Select this when no speakers are installed. Yes/No.... Select "Yes" when a subwoofer is installed, "No" when it's not installed.

NOTE: Select "Large" or "Small" not according to the physical size of the speaker, but according to the bass reproduction capacity at 80 Hz. If you cannot determine the best setting, try comparing the sound when set to "Small" and when set to "Large", at a level that will not damage the speakers. Caution: In case the subwoofer is not used, be sure to set "Subwoofer = No", or the bass sound of front channel is divided to subwoofer channel and not reproduced in some mode. If the subwoofer has sufficient low frequency playback capacity, good sound can be achieved even when "Small" is set for the front, center and surround speakers. For the majority of speaker system configurations, using the Small setting for all five main speakers and Subwoofer On with a connected subwoofer will yield the best results. 22 ENGLISH Setting the Subwoofer mode and Crossover Frequency This screen is not displayed when not using a subwoofer. · Set the crossover frequency and subwoofer mode according to the speaker system being used. 1 Select the "Subwoofer Mode". Select the setting. 6 SW MODE NORM 2 Select the "Crossover Frequency" mode.

Select the frequency. 7 C.R.OVER 80Hz 3 NOTES: Press the ENTER or setting. (down) button to enter the setting and switch to the SPEAKER DISTANCE -- Assignment of low frequency signal range -- · The signals produced from the subwoofer channel are LFE signals (during playback of Dolby Digital or DTS signals) and the low frequency signal range of channels set to "SMALL" in the setup. The low frequency signal range of channels set to "LARGE" are produced from those channels.

-- Crossover Frequency -- · When "Subwoofer" is set to "Yes" at the "Speaker Configuration Setting", set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer (the crossover frequency). · For speakers set to "Small", sound with a frequency below the crossover frequency is cut, and the cut bass sound is output from the subwoofer instead. NOTE: For ordinary speaker systems, we recommend setting the crossover frequency to 80 Hz. When using small speakers, however, setting the crossover frequency to a high frequency may improve frequency response for frequencies near the crossover frequency. -- Subwoofer mode -- · The subwoofer mode setting is only valid when "Large" is set for the front speakers and "YES" is set for the subwoofer in the "Speaker Configuration" settings (see page 22).

· When the "LFE+MAIN" playback mode is selected, the low frequency signal range of channels set to "Large" are produced simultaneously from those channels and the subwoofer channel. In this playback mode, the low frequency range expand more uniformly through the room, but depending on the size and shape of the room, interference may result in a decrease of the actual volume of the low frequency range.



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· Selection of the "LFE" play mode will play the low frequency signal range of the channel selected with "Large" from that channel only. Therefore, the low frequency signal range that are played from the subwoofer channel are only the low frequency signal range of LFE (only during Dolby Digital or DTS signal playback) and the channel specified as "Small" in the setup menu. · Select the play mode that provides bass reproduction with quantity. · When the subwoofer is set to "Yes", bass sound is output from the subwoofer regardless of the subwoofer mode setting in surround modes other than Dolby/DTS. · In surround modes other than Dolby Digital and DTS, if the subwoofer is set to "YES", the low frequency portion is always output to the subwoofer channel. For details, refer to "Surround Modes and Parameters" on page 53. 23 ENGLISH Setting the delay time · Input the distance between the listening position and the different speakers to set the delay time for the surround mode. Preparations: Measure the distances between the listening position and the speakers (L1 to L5) on the diagram at the right).

L1: Distance between center speaker and listening position L2: Distance between front speakers and listening position L3: Distance between surround speakers and listening position L4: Distance between surround back speaker and listening position L5: Distance between subwoofer and listening position CAUTION: Please note that the difference for every speaker should be 15 ft or less. NOTES: · No setting when "None" has been selected for the Speaker Configuration setting. · Surround back is not displayed when ZONE 2 is set with the POWER AMP ASSIGN setting. FL Center FR Subwoofer L1 L5 L2 Listening position SL L3 L4 SB SR 1 Select the speaker to be set. 8 FRONT L 12ft 2 Set the distance between the speaker and listening position. The distance changes in units of 1 foot (0.1 meters) each time the button is pressed. Select the value closest to the measured distance. 3 Press the ENTER or (down) button to enter the setting and switch the Test Tone setting. 24 ENGLISH Setting the Test Tone · Use this setting to adjust to that the playback level between the different channel is equal.

· From the listening position, listen to the test tones produced from the speakers to adjust the level. · The level can also be adjusted directly from the remote control unit. (For details, see page 43.) 1 Select "Yes". 15 T.

TONE <YES 2 Set the mode. Select "Auto" or "Manual". T.TONE AUTO · Auto: Adjust the level while listening to the test tones produced automatically from the different speakers. · Manual: Select the speaker from which you want to produce the test tone to adjust the level.

3 4 Press the (down) button to start Test Tone. a. If the "Auto" mode is selected: Test tones are automatically emitted from the different speakers. The test tones are emitted from the different speakers in the following order, at 4-second intervals the first time and second time around, 2-second intervals the third time around and on: FL C FR SR SB SL SW Ispkr Use the CURSOR left and right buttons to adjust all the speakers to the same volume. The volume can be adjusted between 12 dB and +12 dB in units of 1 dB. b. When the "Manual" mode is selected Use the CURSOR up and down to select the speaker for which you want to output test tones, then use the CURSOR left and right to adjust so that the volume of the test tones from the various speakers is the same.

Example: When the volume is set to 12 dB while the Front Lch speaker is selected 5 (Remote control unit) After completing the adjustment, press the ENTER button. 6 Press the ENTER or (down) button to enter the setting and switch the DIGITAL input setting. 25 ENGLISH NOTES: · When you adjust the channel levels while in the TEST TONE mode, the channel level adjustments made will affect all surround modes.

Consider this mode a Master Channel Level adjustment mode. · You can adjust the channel levels for each of the following surround modes: DIRECT, STEREO, DOLBY/DTS SURROUND, 5/6 CH STEREO, MONO MOVIE, ROCK ARENA, JAZZ CLUB, VIDEO GAME, MATRIX and VIRTUAL. Setting the Digital In Assignment · This setting assigns the digital input jacks of the AVR-1804/884 for the different input sources. 1 Select the digital input jack to be assigned to the input source. · To select the digital input jack 16 COAX CD 2 3 · To select the input source Select "OFF" if nothing is connected. Press the ENTER or (down) button to enter the setting and switch the Component Video input setting. NOTE: · PHONO, TUNER and V. AUX cannot be selected.

Setting the Video In Assignment · This setting assigns the color difference (component) video input jacks of the AVR-1804/884 for the different input sources. 1 Select the component (Y, PB/CB and PR/CR) video input terminal to be assigned to the input source.

· Component video terminal selection 20 VIDEO1 DVD 2 3 · Input source selection Select "OFF" if nothing is connected. Press the ENTER or (down) button to enter the setting and switch the Auto Surround Mode setting. 26 ENGLISH Setting the Auto Surround Mode For the three kinds of input signals as shown below, the surround mode played the last is stored in the memory. At next time it the same signal inputs, the memorized surround mode is automatically selected and the signal is played. Note that the surround mode setting is also stored separately for the different input function.

SIGNAL q w e Analog and PCM 2-channel signals 2-channel signals of Dolby Digital, DTS or other multichannel format Multichannel signals of Dolby Digital, DTS or other multichannel format Default Auto Surround Mode STEREO Dolby PLII Cinema Dolby or DTS Surround 1 Select "ON" if you want to use the auto surround mode, "OFF" if you do not want to use it. 22 AUTOSURR. ON 2 Press the ENTER or (down) button to switch the Ext. In SW Level setting. Setting the Ext.

In SW Level Set the playback level of the analog input signal connected to the Ext. In terminal. 1 Select desired setting. · Select according to the specifications of the player being used. Also refer to the player's operating instructions. · +15dB (default) recommended. (0, +5, 10 and +15 can be selected.) 23 EXT.IN SW +15 2 Press the ENTER or (down) button to switch the Power Amp Assignment setting. 27 ENGLISH Power Amp Assignment Setting the power amplifier assignment Make this setting to switch the power amplifier for the surround back channel to ZONE2.



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.....DENON (DVD) DBS/CABLE

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..ABC (CABLE) 31 ENGLISH Operating component stored in the preset memory 1 Set mode switch 1 to "AUDIO" or "VIDEO". 3 Set the AUDIO side for the CD, tape deck or CDR/MD position, to the VIDEO side for the DVD/VDP, DBS/CABLE, VCR or TV position. 3 2 Set mode switch 2 to the component you want to operate. 1 2 3 3 Operate the component. · For details, refer to the component's operating instructions. Some models cannot be operated with this remote control unit. 2. Video disc player (VDP) system buttons POWER : Power on/standby (ON/SOURCE) 6,7 : Manual search (forward and reverse) 2 : Stop 1 : Play 8,9 : Auto search (cue) 3 : Pause 0~9, +10 : 10 key 1.

Digital video disc player (DVD, DVD SETUP) system buttons POWER : Power on/standby (ON/SOURCE) OFF : DENON DVD Power off 6,7 : Manual search (forward and reverse) 2 : Stop 1 : Play 8,9 : Auto search (to beginning of track) 3 : Pause 0 ~ 9, +10 : 10 key DISC SKIP + : Disc skip (for DVD changer only) DISPLAY : Switch display MENU : Menu RETURN : Return SETUP : Setup D, H, F, G : Cursor up, down, left and right ENTER : Enter setting NOTE: · Some manufacturers use different names for the DVD remote control buttons, so also refer to the instructions on remote control for that component. 32 ENGLISH 3. Video deck (VCR) system buttons POWER : Power on/standby (ON/SOURCE) 6,7 : Manual search (forward and reverse) 2 : Stop 1 : Play 3 : Pause Channel +, : Channels 4. Digital broadcast satellite (DBS) tuner and cable (CABLE) system buttons POWER : (ON/SOURCE) MENU : RETURN : D, H, F, G : ENTER : CHANNEL : +, 0~9, +10 : DISPLAY : VOL +, : Power on/standby Menu Return Cursor up, down, left and right Enter Switch channels Channels Switch display Volume up/down 5. Monitor TV (TV) system buttons POWER : (ON/SOURCE) MENU : RETURN : D, H, F, G : ENTER : CHANNEL : +, 0~9, +10 : DISPLAY : TV/VCR : TV VOL +, Power on/standby Menu Return Cursor up, down, left and right Enter Switch channels Channels Switch display Switch between TV and video player : Volume up/down NOTES: · For this CD, CDR, MD and TAPE components, buttons can be operated in the same way as for Denon audio components (page 30).



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· The TV can be operated when the switch is at DVD/VDP, VCR, TV position. 33 ENGLISH Punch Through · "Punch Through" is a function allowing you to operate the PLAY, STOP, MANUAL SEARCH and AUTO SEARCH buttons on the CD, TAPE, CDR/MD, DVD/VDP or VCR components when in the DBS/CABLE or TV mode. By default, nothing is set. 1 2 Set mode switch 1 to "VIDEO". 3 3 Set mode switch 2 to the component to be registered (DBS/CABLE or TV).

4 1 2 3 Press the OFF (ZONE2) button and the ON (MAIN) button at the same time. · Indicator flash. 4 1 4 7 2 5 8 0 3 6 Input the number of the component you want to set. (See Table 1) Table 1 9 CD TAPE CDR/MD DVD/VDP VCR No setting No. 1 2 3 4 5 0 34 ENGLISH 12 OPERATION Before operating 1 2 3 Refer to "CONNECTIONS" (pages 10 to 18) and check that all connections are correct.

Set the remote control unit's slide switch to the AUDIO position. (only when operating with the remote control unit) Turn on the power. Press the ON/STANDBY button on the main unit or ON/SOURCE button on the remote control unit to turn on the power. 3 4 3 ON/STANDBY Light (Main unit) (Remote control unit) · ON/STANDBY When the button is pressed, the power turns on and the display lights after approximately 1 second. When pressed again, the power turns off, the standby mode is set and the display turns off.

Several seconds are required from the time the power operation switch is set to the "ON" position until sound is output. This is due to the built-in muting circuit that prevents noise when the power switch is turned on and off. 2 4 Select the front speakers. Press the SPEAKER A or B button to turn the speaker on.

4 (Main unit) (Remote control unit) · The front speaker A, B setting can be also be changed with the SPEAKER button on the remote control unit. 35 ENGLISH Playing the input source 11 2 5 3 1 3 5 1 Select the input source to be played. Example: CD (Main unit) (Remote control unit) 2 Input mode selection function Different input modes can be selected for the different input sources. The selected input modes for the separate input sources are stored in the memory. q AUTO (auto mode) In this mode, the types of signals being input to the digital and analog input jacks for the selected input source are detected and the program in the AVR-1804/884's surround decoder is selected automatically upon playback. This mode can be selected for all input sources other than PHONO and TUNER.

The presence or absence of digital signals is detected, the signals input to the digital input jacks are identified and decoding and playback are performed automatically in DTS, Dolby Digital or PCM (2 channel stereo) format. If no digital signal is being input, the analog input jacks are selected. Use this mode to play Dolby Digital signals. w PCM (exclusive PCM signal playback mode) Decoding and playback are only performed when PCM signals are being input. Note that noise may be generated when using this mode to play signals other than PCM signals. e DTS (exclusive DTS signal playback mode) Decoding and playback are only performed when DTS signals are being input. r ANALOG (exclusive analog audio signal playback mode) The signals input to the analog input jacks are decoded and played. t EXT. IN (external decoder input jack selection mode) The signals being input to the external decoder input jacks are played without passing through the surround circuitry. NOTE: · Note that noise will be output when CDs or LDs recorded in DTS format are played in the "PCM" (exclusive PCM signal playback) or "ANALOG" (exclusive PCM signal playback) mode.

Select the AUTO or DTS mode when playing signals recorded in DTS. To select the input source when ZONE2/REC OUT is selected, press the MAIN button then operate the input function selector. (Main unit) 2 Select the input mode. · Selecting the analog mode Press the ANALOG button to switch to the analog input. (Main unit) (Remote control unit) · Selecting the external input (EXT.

IN) mode Press the EXT. IN to switch the external input. (Main unit) (Remote control unit) · Selecting the AUTO, PCM and DTS modes The mode switches as shown below each time the INPUT MODE button is pressed. AUTO PCM DTS (Main unit) (Remote control unit) Notes on playing a source encoded with DTS · Noise may be generated at the beginning of playback and while searching during DTS playback in the AUTO mode. If so, play in the DTS mode.

· In some rare cases the noise may be generated when you preform the operation to stop playback of a DTS-CD or DTS-LD. 36 ENGLISH Input mode display · In the AUTO mode AUTO INPUT PCM DTS 3 Select the play mode. Press the SURROUND MODE button, then turn the SELECT knob. Example: Stereo One of these lights, depending on the input signal. DIGITAL ANALOG · In the DIGITAL PCM mode AUTO INPUT PCM DTS DIGITAL · In the DIGITAL DTS mode (Main unit) (Remote control unit) AUTO INPUT PCM DTS DIGITAL To select the surround mode while adjusting the surround parameters, tone defeat or tone control, press the surround mode button then operate the selector. · In the ANALOG mode AUTO INPUT PCM DTS ANALOG (Main unit) Input signal display · DOLBY DIGITAL SIGNAL DIGITAL 4 5 Start playback on the selected component. · For operating instructions, refer to the component's manual. Adjust the volume. · DTS SIGNAL DIGITAL · PCM The volume level is displayed on the master volume level display. SIGNAL DIGITAL (Main unit) (Remote control unit) The volume can be adjusted within the range of 70 to 0 to 18 dB, in steps of 1 dB.

However, when the channel level is set as described on page 44, if the volume for any channel is set at +1 dB or greater, the volume cannot be adjusted up to 18 dB. (In this case the maximum volume is adjusted to "18 dB -- (Maximum value of channel level)".) Input mode when playing DTS sources · Noise will be output if DTS-compatible CDs or LDs are played in the "ANALOG" or "PCM" mode. When playing DTS-compatible sources, be sure to connect the source component to the digital input jacks (OPTICAL/COAXIAL) and set the input mode to "DTS". The DIGITAL indicator lights when digital signals are being input properly. If the DIGITAL indicator does not light, check whether the digital input component setup (page 26) and connections are correct and whether the component's power is turned on. NOTE: · The DIGITAL indicator will light when playing CD-ROMs containing data other than audio signals, but no sound will be heard. 37 ENGLISH Playback using the external input (EXT. IN) jacks 1 Set the external input (EXT.



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