# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVR-550SD. You'll find the answers to all your questions on the DENON AVR-550SD 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-550SD
User guide DENON AVR-550SD
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DENON

AV SURROUND RECEIVER   SPEAKER SYSTEM PACK
AVR-550SD   SYS-550SD

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

AV SURROUND RECEIVER   SPEAKER SYSTEM PACK
AVR-550SD   SYS-550SD
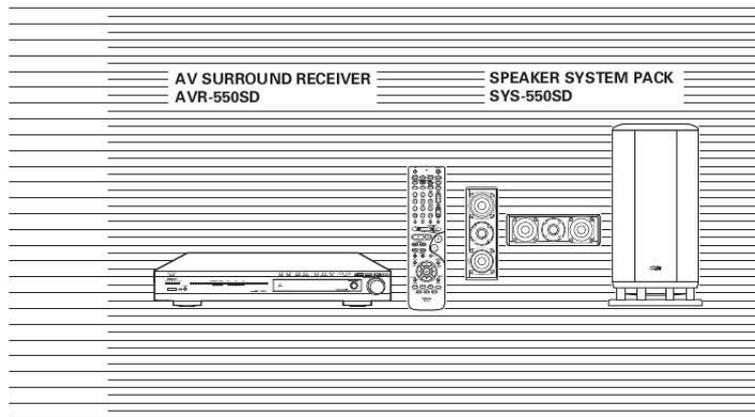
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Manual abstract:

@@Keep the set free from moisture, water, and dust. Do not let foreign objects in the set. @@Do not let insecticides, benzene, and thinner come in contact with the set. Never disassemble or modify the set in any way. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. No naked flame sources, such as lighted candles, should be placed on the apparatus. No objects filled with liquids, such as vases, shall be placed on the apparatus. 2 To be sure you take maximum advantage of all the features the AVR-550SD has to offer, read these Pay attention to the following before using this unit: · Moving the set To prevent short circuits or damaged wires in the connection cords, always unplug the power cord and disconnect the connection cords between all other audio components when moving the set. Before turning the power switch on Check once again that all connections are proper and that there are not problems with the connection cords. Always set the power switch to the standby position before connecting and disconnecting connection cords.

Store this instructions in a safe place. After reading, store this instructions along with the warranty in a safe place. Note that the illustrations in this instructions may differ from the actual set for explanation purposes. Instructions carefully and use the set properly. Be sure to keep this manual for future reference, should any questions or problems arise.

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. Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV. If this happens, take the following steps: · Install this unit as far as possible from the tuner or TV. Set the antenna wires from the tuner or TV away from this unit's power cord and input/output connection cords. Noise or disturbance tends to occur particularly when using indoor antennas or 300 /ohms feeder wires. we recommend using outdoor antennas and 75 /ohms coaxial cables. For heat dispersal, leave at least 10 cm of space between the top, back and sides of this unit and the wall or other components. Using the sleep timer . Check that the following parts are included in addition to the main unit: AVR-550SD q MAIN UNIT . Wall 10 cm or more Switching the input function when input jacks are not connected A clicking noise may be produced if the input function is switched when nothing is connected to the input jacks. If this happens, either turn down the MASTER VOLUME control or connect components to the input jacks. Because of this, the output signals are greatly reduced for several seconds after the power switch is turned on or input function, surround mode or any other-set-up is changed. If the volume is turned up during this time, the output will be very high after the muting circuit stops functioning. Always wait until the muting circuit turns off before adjusting the volume.

Whenever the power switch is in the STANDBY state, the apparatus is still connected on AC line voltage. Please be sure to unplug the cord when you leave home for, say, a vacation. Dolby Virtual Speaker compatibility The AVR-550SD is equipped with power amplifiers that make it compatible with new Dolby Virtual Speaker technology for recreating a 5. Surround sound can be achieved with the Dolby Virtual Speaker mode for CDs and other 2-channel sources in combination with the Dolby Pro Logic II decoder. 1-channel surround format proposed by Dolby Laboratories that allows users to enjoy in their homes the "DOLBY DIGITAL SURROUND EX" audio format jointly developed by Dolby Laboratories and Lucas Films and first used for the movie "Star Wars Episode 1 Phantom Menace". the 6. 1 channels of sound, including surround back channels, provide improved sound positioning and expression of space. 3. Dolby Pro Logic IIx compatibility Dolby Pro Logic IIx furthers the matrix decoding technology of Dolby Pro Logic II to decode audio signals recorded on two channels into up to 7. The mode can be selected according to the source.

The Music mode is best suited for playing music,the Cinema mode for playing movies, and the Game mode for playing games. The Game mode can only be used with 2-channel audio sources. DTS-ES Extended Surround and DTS Neo:6 The AVR-550SD is compatible with DTS-ES Extended Surround, a new multi-channel format developed by Digital Theater Systems Inc. DTS 96/24 compatibility The AVR-550SD can be decoded with sources recorded in DTS 96/24, a new multi-channel digital signal format developed by Digital Theater Systems Inc. DTS 96/24 sources can be played in the multichannel mode on the AVR-550SD with high sound quality of 96 kHz/24 bits or 88.

On Screen Diaplay Troublesome operations such as adjusting the delay time and other parameters according to the listening environment are greatly simplified. The various parameters can be set simply by selecting the graphic displayed on the monitor screen according to the listening room's system environment. With this function, the AVR-550SD's monitor out connector and the monitor (TV) can be connected with video pin-plug cords or an S-Video connection cord. 1 channels of wide-range, high fidelity surround sound, from sources such as laser disc, DVD and specially-encoded music discs. 11. Component Video Switching In addition to composite video and "S" video switching, the AVR-550SD provides 2 sets of component video (Y, PB/CB, PR/CR) inputs assignable, and one set of component video outputs to the television, for superior picture quality. 12. Auto Surround Mode This function stores the surround mode last used for an input signal in the memory and automatically sets that surround mode the next time that signal is input. For details on the functions of these parts, refer to the pages given in parentheses ( ). For details on the functions of these parts, refer to the pages given in parentheses ( ). This AV Surround Receiver must be setup before use. Next, insert the batteries into the remote control unit. The following is an example of the basic layout for a system consisting of 7 speaker systems and a television monitor. For the layout when using two surround back speakers, see "Speaker Setting examples" (See page 41). 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.

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.

Do not plug in the AC cord until all connections have been completed. Be sure to connect the left and right channels properly (left with left, right with right). 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. MD recorder, CD recorder or other component equipped with digital input/output jack CD player or other component equipped with digital output jacks Connecting the DIGITAL jacks Use these for connections to audio (video) equipment with digital output. Use optical cables for optical connections, removing the cap before connecting. The main unit's power must be turned on when recording the AVR-550SD.

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. 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 REC OUT terminals have no conversion function, so when recording only connect the video terminals.

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 REC OUT terminals have no conversion function, so when recording only connect the S-Video terminals. DVD player or video disc player (VDP) TV or satellite broadcast tuner Connecting a DVD player or a video disc player (VDP) DVD · DVD player or video disc player (VDP), etc. Connecting a DVD player or a video disc player (VDP) DVD · Only audio signals are input to the digital input jacks. When connecting the AVR-550SD with a monitor TV or DVD player equipped with an SCART connector, use a converter cable (sold separately) as shown in the diagram. There are two sets of video deck (VCR) jacks, so two video decks can be connected for simultaneous recording or video copying. 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. 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. 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", "R-Y, B-Y and Y", "Pr, Pb and Y", etc.). For details, carefully read the operating instructions included with the TV or other component. With the antenna on top any stable surface. 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. 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. 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. 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 shockot to display the onscreen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated. Use the following buttons to set up the system: SYSTEM SETUP button Press this to display the system setup on the display. The AVR-550SD'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. , ª, 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 Input the combination of speakers in your system and their corresponding sizes (SMALL for regular speakers, LARGE for full-size, fullrange) 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. Check that all the components are correct, then press the POWER operation switch on the main unit to turn on the power. This parameter is for optimizing the timing with Front Front Surround Surround Surround Center Subwoofer which the audio signals are produced from the L R L R Back speakers and subwoofer according to the 3. This adjusts the volume of the signals output Front Front Surround Surround Surround Center Subwoofer from the speakers and subwoofer for the L R L R Back different channels in order to obtain optimum 0 dB 0 dB 0 dB 0 dB 0 dB 0 dB None effects. This assigns the digital input jacks for the different input sources. 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.

This assigns the component video input jacks for the different video input sources. 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. This screen is not displayed when not using a subwoofer. Set the crossover frequency and subwoofer mode according to the speaker system being used. When using in combination with the SYS-550SD, we recommend turning the DSW-3L's LF DIRECT switch on and setting the AVR-550SD's crossover frequency to 150 Hz. Set whether or not speakers are connected and, if so, their size parameters. 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. (Example: SC-A3L , SC-C3L) None. Select this when no speakers are installed. yes/No.

Select "Yes" when a subwoofer is installed, "No" when it's not installed. About the surround back speaker When "S. 1ch speaker system The surround back audio signals are output from both the speaker terminals and the PRE OUT connector's left channel. 1ch speaker system The surround back audio signals are only output from the PRE OUT connector. connect a commercially available pre-main (power) amplifier to output the audio signals.

No sound is output from the "Surr. back" speaker terminals. 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 Subwooofer On with a connected subwoofer will yield the best results. 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 12). 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. 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. 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). Subwoofer L1: Distance between center speaker and listening position L2: Distance between front speakers and listening position SL 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 6 m or less. Set the distance between the speaker and listening position.

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 23.) When connecting a commercially available pre-main amplifier to the surround backup pre-out connectors and using a surround backup speaker, the level changes when the pre-main amplifier's volume control is adjusted, so adjust the volume with the pre-main amplifier's volume control in function of this setting.

When you adjust the channel levels while in the TEST TONE mode, the channel level adjustments made will affect all surround modes. 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 DOLBY VIRTUAL SPEAKER. 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. This setting assigns the digital input jacks of the AVR-550SD for the different input sources. 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: 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. 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 This setting assigns the color difference (component) video input jacks of the AVR-550SD for the different input sources.

Select according to the specifications of the player being used. Use this to turn the on-screen display (messages other than the menu screens) on or off. For the three kinds of input signals as shown below, the surround mode played the last is stored in the memory. 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 Select "ON" if you want to use the auto surround mode, "OFF" if you do not want to use it. Use this to automatically search for FM broadcasts and store up to 40 stations at preset channels A1 to 8, B1 to 8, C1 to 8, D1 to 8 and E1 to 8. nOTE: · If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation. Turn on the power of the different components before operating them. While this remote control is compatible with a wide range of infrared controlled components, some models of components may not be operated with this remote control. Once the system is set up, there is no need to make the settings again unless other components or speakers are connected to or the speaker layout is changed. : Manual search (forward and reverse) 2 : Stop 1 : Play 8, 9 : Auto search (cue) 3 : Pause DISC SKIP + : Switch discs (for CD changers only) Rewind Fast-forward Stop Forward play Reverse play Switch between decks A and B Tuner system buttons SHIFT : CHANNEL +, : TUNING +, : BAND : MODE MEMORY Switch preset channel range Preset channel up/down Frequency up/down Switch between the AM and FM bands : Switch between auto and mono : Preset memory TUNER can be operated when the switch is at "AUDIO" position.

DENON and other makes of components can be operated by setting the preset memory. This remote control unit can be used to operate components of other manufacturers without using the learning function by registering the manufacturer of the component as shown on the List of Preset Codes (pages 311~313). Operation is not possible for some models. 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 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 Referring to the included List of Preset Codes, use the number buttons to input the preset code (a 3-digit number) for the manufacturer of the component whose signals you want to store in the memory. To store the codes of another component in the memory, repeat steps 1 to 4. The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit's transmitting window while setting the preset memory. Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed on the included list of preset codes.

Some manufacturers use more than one type of remote control code. The preset memory can be set for one component only among the following: CDR/MD, DVD/VDP and DBS/CABLE. The preset codes are as follows upon shipment from the factory and after resetting: TV, VCR. Some manufacturers use different names for the DVD remote control buttons, so also refer to the instructions on remote control for that component. Digital broadcast satellite (DBS) tuner and cable (CABLE) system buttons POWER : Power on/standby (ON/SOURCE) MENU : Menu RETURN : Return D, H, F, G : Cursor up, down, left and right ENTER : Enter CHANNEL : Switch channels +, 0~9, +10 : Channels DISPLAY : Switch display VOL +, : Volume up/down "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. Monitor TV (TV) system buttons POWER : Power on/standby (ON/SOURCE) MENU : Menu RETURN : Return D, H, F, G : Cursor up, down, left and right ENTER : Enter CHANNEL : Switch channels +, 0~9, +10 : Channels DISPLAY : Switch display TV/VCR : Switch between TV and video player TV VOL : Volume up/down +, Input the number of the component you want to set. For this CD, CDR, MD and TAPE components, buttons can be operated in the same way as for Denon audio components (page 16). The TV can be operated when the switch is at DVD/VDP, VCR, TV position. (only when operating with the remote control unit) 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 AVR550SD's surround decoder is selected automatically upon playback. This mode can be selected for all input sources other than 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. 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. When pressed, the power turns on and the display lights. The sound is muted for several seconds, after which the unit operates normally. When pressed again, the power turns off, the standby mode is set and the display turns off.

Whenever the ON/STANDBY button is in the STANDBY state, the apparatus is still connected on AC line voltage. Please be sure to unplug the cord when you leave home for, say, a vacation. 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. 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. In some rare cases the noise may be generated when you preform the operation to stop playback of a DTS-CD or DTS-LD. 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".

IN jacks are output directly to the front (left and right), center, surround (left and right) speaker systems without passing through the surround circuitry. 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 play modes other than the external input mode, the signals connected to C, SL, SR and SW jacks cannot be played. In addition, signals cannot be output from channels not connected to the input jacks. The external input mode can be set for any input source. To watch video while listening to sound, select the input source to which the video signal is connected, then set this mode. IN), the play mode (DIRECT, STEREO, DOLBY/DTS SURROUND, 5CH/6CH STEREO, VIRTUAL SURROUND (DOLBY VIRTUAL SPEAKER) or DSP SIMULATION) cannot be selected. The volume level is displayed on the master volume level display. The DIG indicator lights when digital signals are being input properly. If the DIG indicator does not light, check whether the digital input component setup (page 14) and connections are correct and whether the component's power is turned on.

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 23, if the volume for any channel is set at +1 dB or greater, the volume cannot be adjusted up to 18 dB. The DIG indicator will light when playing CDROMs containing data other than audio signals, but no sound will be heard. DIRECT mode Use this mode to achieve good quality 2channel sound while watching images. In this mode, the audio signals bypass such circuits as the tone circuit and are transmitted directly, resulting in good quality sound. With the name of the volume to be adjusted selected, turn the SELECT knob to adjust the level. STEREO mode Use this mode to adjust the tone and achieve the desired sound while watching images. If you do not want the bass and treble to be adjusted, turn on the tone defeat mode. The signals do not pass through the bass and treble adjustment circuits, so it provides higher quality sound. NOTE: To prevent hearing loss, do not raise the volume level excessively when using headphones. The speaker output is automatically turned off when headphones are connected. Use this to turn off the audio output temporarily. [4] Combining the currently playing sound with the desired image Before playing with the surround function Simulcast playback Use this switch to monitor a video source other than the audio source. Before playing with the surround function, be sure to use the test tones to adjust the playback level from the different speakers. This adjustment can be performed with the system setup (see page 11) or from the remote control unit, as described below.

Adjusting with the remote control unit using the test tones is only possible in the "Auto" mode and only effective in the DOLBY/DTS SURROUND modes. The adjusted levels for the different modes are automatically stored in the memory. Also, the unit's operating status can be checked during playback by pressing the remote control unit's ON SCREEN/DISPLAY button. Also, the unit's operating status can be checked during (Main unit) playback by pressing the main unit's STATUS button. Test tones are output from the different speakers.

After adjusting using the test tones, adjust the channel levels either according to the playback sources or to suit your tastes, as (described) below. Dolby Digital mode (only with digital input) and DTS Surround (only with digital input) Select the speaker whose level you want to adjust. If the channel levels are adjusted separately after adjusting the fader, the fader adjustment values are cleared, so adjust the fader again. The level of the selected speaker can be adjusted within the range of +12 to 12 dB using the cursor buttons. SW channel level can be turned off by decreasing one step from 12 dB. When performing this operation from the main unit's panel, press the SURROUND MODE button, then turn the SELECT knob and select Dolby Pro Logic II or DTS NEO:6. Play a program source with the When the SIGNAL DETECT indicator is lit, we recommend turning the surround back channel using the SURROUND BACK button on the remote control unit during playback. To use DTS 96/24 sources with the optimum system, we recommend turning the surround back channel off. The Dolby Surround Pro Logic II Cinema or Music mode can be chosen directly by pressing the CINEMA or MUSIC button on the remote control unit during playback in the Dolby Surround Pro Logic II mode. Select the function to which the component you want to play is connected.

Dialogue normalization is a basic function of Dolby Digital which automatically normalizes the dialog level (standard level) of the signals which are recorded at different levels for different program sources, such as DVD, DTV and other future formats that will use Dolby Digital. These contents can be verified with the ON SCREEN button. The number indicates the normalization level when the currently playing program is normalized to the standard level. To perform this operation from the remote control unit, check that the mode selector switch is set to "AUDIO". Play a program source with the mark. The DTS NEO:6 Cinema or Music mode can be chosen directly by pressing the CINEMA or MUSIC button on the remote control unit during playback in the DTS NEO:6 mode. MODE cinema MODE music MODE game Select the function to which the component you want to play is connected. To perform this operation from the remote control unit, check that the mode selector switch is set to "AUDIO". The Cinema mode is for use with stereo television shows and all programs encoded Dolby Surround. Panorama Control: This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.

select "OFF" or "ON". Dimension Control: This control gradually adjust the soundfield either towards the front or towards the rear. The control can be set in 7 steps from 0 to 6. Center Width Control: This control adjust the center image so it may be heard only from the center speaker; only from the left/right speakers as a phantom image; or from all three front speakers to varying degrees. The control can be set in 8 steps from 0 to 7.

Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6. 1-channel sources. This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels). Music This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.

2): The center image parameter for adjusting the expansion of the center channel in the DTS NEO:6 MUSIC mode has been added. (Cinema Equalizer): The Cinema EQ function gently decreases the level of the extreme high frequencies, compensating for overly-bright sounding motion picture soundtracks. Select this function if the sound from the front speakers is too bright. This function only works in the Dolby Pro Logic IIx, Dolby Digital, DTS Surround, DTS NEO:6 and WIDE SCREEN modes. (Dynamic Range Compression): Motion picture soundtracks have tremendous dynamic range (the contrast between very soft and very loud sounds). For listening late at night, or whenever the maximum sound level is lower than usual, the Dynamic Range Compression allows you to hear all of the sounds in the soundtrack (but with reduced dynamic range). (This only works when playing program sources recorded in Dolby Digital or DTS. LFE (Low Frequency Effect): This sets the level of the LFE (Low Frequency Effect) sounds included in the source when playing program sources recorded in Dolby Digital or DTS. If the sound produced from the subwoofer sounds distorted due to the LFE signals when playing Dolby Digital or DTS sources when the peak limiter is turned off with the subwoofer peak limit level setting (system setup menu), adjust the level as necessary. DTS Surround: 10 dB to 0 dB When DTS encoded movie software is played, it is recommended that the LFE LEVEL be set to 0 dB for correct DTS playback.

When DTS encoded music software is played, it is recommended that the LFE LEVEL be set to 10 dB for correct DTS playback. tONE: This adjusts the tone control. This can be set individually for the separate shroud mode other than Pure direct and direct mode. aFDM (Auto Flag Detect Mode): ON . This function only works with software on which a special identification signal is recorded. this software is scheduled to go on sale in the future. This is a function for automatically playing in the 6. 1-channel mode using the surround back speakers if the software is recorded in DTS-ES or in the normal 5. 1-channel mode without using the surround back speakers when the software is not recorded in DTS-ES. 1-channel sources or sources on which the identification signal described below is not recorded.

sB CH OUT: (1) (Multi channel source) "OFF". Playback is conducted without using the surround back speaker. "NON MTRX" . The same signals those of the surround channels are output from the surround back channels. "MTRX ON" .

Surround back channel is reproduced using digital matrix processing. "ES MTRX" . When playing DTS signals, the surround back signals undergo digital matrix processing for playback. 1-channel source is included in the DTS signals, the surround back signals included in the source are played. Playback is conducted without using the surround back speaker.

"ON". Playback is conducted using the surround back speaker. NOTE: This operation can be performed directly using the "SURROUND BACK" button on the main unit's panel. The Dolby Virtual Speaker mode is a mode using 3D sound technology from Dolby Laboratories to achieve multi-channel surround sound using only two speakers for the front channels. With two speakers for the front channels, one of two modes can be selected: Reference or Wide. The Dolby Virtual Speaker mode can be used not only with Dolby Digital and DTS multi-channel sources but also with 2-channel sources. With 2-channel sources, one of two 2-channel modes can be selected: Virtual 1 (Dolby Pro Logic II Cinema) and Virtual 2 (Dolby Pro Logic). With a multi-channel speaker configuration (for example 5. 1 channels), the Dolby Virtual Speaker mode provides different effects according to the speaker configuration. If nothing is done for 6 seconds from when the parameter is displayed, the normal display reappears.

WIDE (Wide mode) This mode expands the front channel sound field. When listening with the volume turned relatively low, at night for example, set this to the "HI" side to lower the peak of the sound and amplify the quieter sounds, narrowing the dynamic range and making the sound easier to listen to. The mode is not displayed if it cannot be selected. When Dolby Digital encoded software is played, it is recommended that the LFE LEVEL be set to 0 dB for correct Dolby Digital playback. When DTS encoded movie software is played, it is recommended that the LFE LEVEL be set to 0 dB for correct DTS playback. When DTS encoded music software is played, it is recommended that the LFE LEVEL be set to 10 dB for correct DTS playback. The LFE level can be adjusted in steps of 1 dB between -10 dB and 0 dB. When "YES" is selected, the settings are restored to the factory defaults. When the surround parameters are displayed, use the · And ª cursor buttons on the remote control unit to switch to previous or following items. once the surround parameters have been set , stop operating the buttons.

After several seconds, the normal display reappears and the settings are automatically entered. This switches automatically according to the format of the playback source. When 2-channel signals are input, one of two playback modes can be selected and set according to the 2channel mode setting, Virtual 1 or Virtual 2. (The Virtual 1 mode is set by factory default.) Virtual 1 : 2-channel sources are played in virtual surround using Dolby Pro Logic II Cinema processing.

Virtual 1 : 2-channel sources are played in virtual surround using Dolby Pro Logic processing. This unit is equipped with a high performance DSP (Digital Signal Processor) which uses digital signal processing to synthetically recreate the sound field. One of 6 preset surround modes can be selected according to the program source and the parameters can be adjusted according to the conditions in the listening room to achieve a more realistic, powerful sound.

These surround modes can also be used for program sources not recorded in Dolby Surround Pro Logic, Dolby Digital or DTS. In this mode, the signals of the front left channel are output from the left surround channel, the signals of the front right channel are output from the right surround channel, and the same (in-phase) component of the left and right channels is output from the center channel.

This mode provides all speaker surround sound, but without directional steering effects, and works with any stereo program source. @@@@@This mode gives jazz a very vivid realism. Use this to enjoy video game sources. @@@@@@@@@@@@@@@@@@@@@This mode is compatible with regular Dolby Pro Logic playback. The 2-channel mode cannot be set when Dolby Digital or DTS 5. @@@@@@@@@@@@When the "5CH/6CH STEREO" mode is selected, the display differs according to the Surround Back CH ON/OFF. Surround parameters t ROOM SIZE: This sets the size of the sound field. "small" recreates a small sound field, "large" a large sound field. eFFECT LEVEL: This sets the strength of the surround effect. The level can be set in 15 steps from 1 to 15.

DELAY TIME: In the matrix mode only, the delay time can be set within the range of 0 to 300 ms. SURROUND L/R SUBWOOFER SURROUND BACK SURROUND BACK (PRE OUT) L/R When playing Dolby Digital Signals When playing DTS signals When playing PCM signals (96k) Signals and adjustability in the different modes Parameter (default values are shown in parentheses) SURROUND PARAMETER cINEMA EQ. DELAY TIME When playing ANALOG signals NEO:6 MUSIC PRO LOGIC II MUSIC MODE ONLY MODE ONLY When playing Dolby Digital / DTS signals SURROUND BACK PANORAMA DIMENSION CENTER WIDE Only without surround speakers 2 ch source only Cinema, DOLBY PL Mode only Cinema Mode only The AVR-550SD is equipped with the Dolby Headphone mode, a technology developed jointly by Dolby Laboratories and Lake Technology for achieving 3D sound over regular headphones. The Dolby Headphone mode is set when headphones are connected to the AVR-550SD's headphones jack. There are actually four Dolby Headphone modes creating different sound field effects: DH1, DH2, DH3 and Bypass (normal stereo playback). With 2-channel sources, playback in the Cinema, Music 1 and Music 2 modes can be selected with the 2-channel mode setting. If nothing is done for 6 seconds from when the parameter is displayed, the normal display reappears. Reference room (small room with little reverberation) DH2 . Live room (room with more reverberation than DH1) DH3 . Large room (Larger room than DH1.

Use this mode to achieve a sense of distance and diffusion of the sound.) BYPASS . Stereo playback DECODER: These can be selected when playing 2-channel sources (analog, PCM, etc.). The signals are processed by one of the following decoders to achieve multiple channels then played in the Dolby Headphone mode.

Signals played in the Dolby Headphone mode with 2 channels. When headphones are plugged in, the output to the speakers is automatically turned off and no sound is produced from the speakers. Can be selected when there is no signal or when playing a 2-channel source. There are also the same parameters as those described under "Dolby Virtual Speaker mode" (see page 27), namely: B D. cOMP.

Setting B LFE level setting B DEFAULT setting When the surround parameters are displayed, use the · And ᵃ cursor buttons on the remote control unit to switch to previous or following items. When the function is set to DVD, this is also shown on the display. The frequency changes continuously when the button is held in. When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off. Automatic searching begins, then stops when a station is tuned in. When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcast is tuned in. At open frequencies, the noise is muted and the "TUNED" and "STEREO" indicators turn off. To preset other channels, repeat steps 1 to 4. A total of 40 broadcast stations can be preset 8 stations (channels 1 to 8) in each of blocks A to E. The preset (broadcast) stations can be checked on the on screen display (OSD).

RDS (works only on the FM band) is a broadcasting service which allows station to send additional information along with the regular radio program signal. The following three types of RDS information can be received on this unit: The program types and their displays are as follows: Watching the display, press the SHIFT button to select the preset memory block. This allows you to easily find out the latest traffic conditions in your area before you leaving home. 2 Radio Text (RT) RT allows the RDS station to send text messages that appear on the display. NOTE: The operations described below using the RDS, PTY and RT buttons will not function in areas in which there are no RDS broadcasts. The main unit's display switches as follows each time the RDS buttons are pressed. The main unit's display switches as follows each time the RDS buttons are pressed. This is the screen when operated. This is the screen when operated. If no other RDS station is found when all the frequencies are searched, "NO RDS" is displayed.

Watching the display, press the 0 and 1 cursor buttons to call out the desired program type. If no other station broadcasting the designated program type is found when all the frequencies are searched, "NO PROGRAMME" is displayed. If no RDS stations is found with above operation, all the reception band are searched. When a broadcast station is found, that station's name appears on the display. This is the screen when operated.

This is the screen when operated. This is the screen when operated. If there is no station broadcasting the designated program type with above operation, all the reception bands are searched. When the RDS button is pressed until "RT" appears on the display while receiving an RDS broadcast station, the text data broadcast from the station is displayed. To turn the display off, use the 0 and 1 cursor buttons on the remote control unit.

The main unit's display switches as follows each time the RDS buttons are pressed. This is the screen when operated. The sleep timer can be used to set the time (up to 60 minutes) after which the power will be set to the standby mode. The power can automatically be set to the standby mode after a specific amount of time (minutes). This is the screen when operated. Sleep timer", then press the ENTER button. If no TP station is found with above operation, all the reception bands are searched. If no other TP station is found when all the frequencies are searched, "NO PROGRAMME" is displayed. To cancel the sleep timer or change the set time, repeat steps 1 to 4 under "Using the sleep timer". This is the screen when operated.

This unit is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.

This function eliminates the need to perform complicated resettings when the power is switched on. The unit is also equipped with a back-up memory. This function provides approximately one week of memory storage when the main unit's power switch is off and with the power cord disconnected. When installing, carefully examine the place and method of installation for safety. when using a stand , brackets , etc. , follow the instructions included with the stand or brackets and check for safety before installing and using. Denon will accept no responsibility for damages or accidents caused by the unit falling. When the indication of the display is not normal or when the operation of the unit does not shows the reasonable result, the initialization of the microprocessor is required by the following procedure. The quality of the sound produced from the speaker system is affected by the size and type (Japanese or Western) of the room, as well as by the method of installation.

Consider the points listed below before installing the speaker system. 2 Note that placing the speaker system on the same stand or shelf as a record player may result in howling. 2 If there is a wall, glass door, etc. , directly in front of or behind the speaker system, cover the wall or door with a thick curtain to prevent resonance and reflection. 2 The SC-A3L and SC-C3L speaker systems are of the low-leakage-flux type and can be used near televisions, but depending on the TV there may be color blotching on the picture.

If this happens, turn off the TV's power, wait 15 to 30 minutes, then turn the TV's power back on. the TV's automatic degaussing circuit should reduce the blotching on the picture. If blotching persists, move the speaker further away. 2 The center speaker (SC-C3L) is equipped with antislip pads upon shipment from the factory. If necessary, however, also apply the included antislip pads (cork, approximately 2 mm thick).

2 When placing the satellite speaker system (SC-A3L) on a stand , etc. , stick the included anti-slip pads (cork, approximately 2 mm thick) at the four corners of the bottom surface. Speaker stand/speaker bracket mount screw holes 2 When mounting the satellite speaker system (SCA3L) on a stand or bracket, M5 nuts are inserted into the bottom of the satellite speaker system (SC-A3L) at intervals of 60 mm. When mounting, following the instructions in the manual included with the speaker stand or ceiling mount bracket, and be sure to install properly and securely. 2 When the satellite speaker system (SC-A3L) is mounted on a ceiling mount bracket, it is turned upside down due to the installation angle. The Denon mark is also turned upside down, so detach the speaker net and reattach it in the opposite direction. Press the power button to set the standby mode, then unplug the set's power cord from the wall power outlet. Hold the following 5CH/6CH STEREO button and DIRECT/STEREO button after 30 second, and plug the AC cord into the outlet. Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons and the microprocessor will be initialized. If step 3 does not work, start over from step 1.

If the microprocessor has been reset, all the button settings are reset to the default values (the values set upon shipment from the factory). To ensure safety, do not place any objects on top or lean objects against the speaker system. The speaker may topple down or fall if force is applied to the sides. Be particularly careful to avoid this, as this could cause injury or other serious accidents. When installing the speaker systems on the ceiling or wall, to ensure safety, have specialists do the installation work. Be sure to fasten the speaker cords to a wall, etc. , to prevent people from tripping over them or otherwise pulling on them accidentally, causing the speaker systems to fall. Be sure to check for safety after installing the speaker systems. Afterwards, perform safety inspections at regular intervals to be sure there is no danger that the speaker systems will fall. Denon will accept no responsibility for damages or accidents caused by inappropriate choice of the place of installation or improper installation procedures.

, due to interaction with the speaker system if there is a magnet or an object generating magnetic force nearby. (c) When toys or other objects using magnets are placed nearby. 2 Note that the illustrations in this instructions may differ from the actual set for explanation purposes. 2 Be sure to keep the operating instructions. After reading these operating instructions, store them in a safe place.

We also recommend filling in the necessary items on the back cover. 2 Note that placing the active subwoofer on the same stand or shelf as a record player may result in howling. 2 The DSW-3L active subwoofer is a Lowleakage-Flux type speaker system and can be used near televisions, but depending on the TV there may be color blotching on the picture. If this happens, turn off the TV's power, move the TV and subwoofer a little apart, wait 15 to 30 minutes, then turn the TV's power back on. the TV's automatic degaussing circuit should reduce the blotching on the picture.

If blotching persists, move the subwoofer and TV further away from each other. 2 Install on a firm , flat floor to prevent accidents due to toppling down. 2 Do not place a record player, CD player or other AV device on top of the subwoofer. The output signal is strongly attenuated for several seconds after the power is turned on. If the volume is adjusted during this time, the output may be extremely high when the muting circuit is deactivated. Be sure to wait for the muting circuit to be deactivated before adjusting the volume. 2 Note that color blotching may occur on a TV , etc. , due to interaction with the subwoofer if there is a magnet or an object generating magnetic force nearby. (c) When toys or other objects using magnets are placed nearby. 2 Note that the illustrations in this instructions may differ from the actual set for explanation purposes.

2 Be sure to keep the operating instructions. After reading these operating instructions, store them in a safe place. We also recommend filling in the necessary items on the back cover. The signal input to the line input connector is output as such from here in parallel. When using two active subwoofers, connect the other active subwoofer's line input connector to this connector. phase selector switch (PHASE) · This switches the phase of the output signal with respect to the input signal. Normally use the subwoofer with this switch set at the "NORM. " position. If the continuity between the sound of the active subwoofer and the left and right speakers seems unnatural, try switching to the "REV. " position, and set the switch to the position in which the sound is most natural. When using the active subwoofer connected to a Dolby Digital- or dts-compatible AV amplifier, if this function is turned on the signals bypass the active subwoofer's crossover and volume adjustment circuits, resulting in purer, higher quality sound.

Note that when this is done the crossover adjustment control (t) and volume adjustment control (y) will no longer function. When using in combination with the AVR-550SD, we recommend turning the LF DIRECT switch on and setting the AVR-550SD's crossover frequency to 150 Hz. Be sure to fasten the power cord to a wall, etc. , to prevent people from tripping over it or otherwise pulling on it accidentally, causing the subwoofer to fall.

*This control only functions when the LF DIRECT switch (r) is set to the "OFF" position. Setting criteria 50Hz : For left/right speakers with diameters of 20 cm or greater 100Hz : For left/right speakers with diameters between 10 and 25 cm 200Hz : For left/right speakers with diameters of 12 cm or less · When using a Dolby Digital- or dts-compatible AV amplifier, we recommend turning the LF DIRECT switch (r) to the "ON" position and not using this function. This control only functions when the LF DIRECT switch (r) is set to the "OFF" position. When turned clockwise ( ) from the center position, the volume of the active subwoofer increases, and when turned counterclockwise ( ), the volume decreases. The power turns on immediately when a signal is input. Do not plug the AC power cord into an AC power outlet until all connections have been completed. Check the left and right channels and be sure to interconnect them properly, L (left) to L, R (right) to R. Note that clamping pin-plug cords and power cords together or running pin-plug cords near the power transformer could result in humming or noise. Lights green Auto power off (standby mode) . The power turns on when this switch is set to the "ON" position. Several seconds are required for the set to begin operating. This is because the set includes a built-in muting circuit to prevent noise when the power switch is turned on and off. When set to the "OFF" position, the power turns off. If this connector is connected to the pre-out connector for the surround center channel of a stereo amplifier or AV surround amplifier, only the center channel's bass sound will be produced, so the overall bass sound will be insufficient. * Read the amplifier's operating instructions carefully before connecting, and be sure to use properly.*

** When connecting the equipment or changing the connections, be sure to turn the equipment's power switches off and unplug the power plugs from the AC power outlets. 2 Connecting the speaker terminals 1. Peel off the sheath from the tip of the connection cord, then firmly twist the wires by hand so that they do not stick out and cause short-circuits. 2. Loosen the terminal by turning it counterclockwise, then insert the connection cord into the hole in the speaker terminal. Check that none of the core wires are sticking out of the hole. When the unit's AC power cord is plugged into a switched AC outlet on the amplifier, if the power switch is left at the "ON" position, the unit's power turns on and off automatically when the amplifier's power is turned on and off. If the AC power cord is not plugged into a switched AC outlet on the amplifier, set the unit's power switch to the "ON" position after turning on the amplifier's power. When turning the power off, set the unit's power switch to the "OFF" position before turning off the amplifier's power. * The net on the front of the speaker systems (SC-A3L, SC-C3L) can be removed.*

To remove, grasp both sides of the net and pull forward. To mount, line up the holes in the four corners of the speaker net with the projecting pieces in the four corners of the cabinet and press in. To "+" side on amplifier (copper colored core wire) NOTE: Make sure the core wires do not touch each other. Once the connections are completely, gently pull on the speaker cords to make sure they are securely connected. Be careful to interconnect the positive ("+", red) and negative ("", black) sides and the left and right speakers properly.

To prevent circuit problems, never short-circuit copper and silver colored core wires or the left and right cords. When installing, carefully examine the place and method of installation for safety. when using a stand , brackets , etc. , follow the instructions included with the stand or brackets and check for safety before installing and using. Denon will accept no responsibility for damages or accidents caused by the unit falling.

Optimum surround sound for different sources There are currently various types of multi-channel signals (signals or formats with more than two channels). 2 Types of multi-channel signals Dolby Digital , Dolby Pro Logic , DTS , high definition 3-1 signals (Japan MUSE Hi-Vision audio) , DVD-Audio , SACD (Super Audio CD) , MPEG multi-channel audio , etc. "Source" here does not refer to the type of signal (format) but the recorded content. Sources can be divided into two major categories. This makes it easy to achieve sound positioned directly behind the listener, something that was previously difficult with sources designed for conventional multi surround speakers. In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position. Signals created to be played in movie theaters. In general sound is recorded to be played in movie theaters equipped with multiple surround speakers, regardless of the format (Dolby Digital, DTS, etc. Movie theater sound field Listening room sound field In this case it is important to achieve the same sense of expansion as in a movie theater with the surround channels. To do so, in some cases the number of surround speakers is increased (to four or eight) or speakers with bipolar or dipolar properties are used.

With this set, speaker(s) for 1 or 2 channels are required to achieve a 6. Adding these speakers, however, increases the surround effect not only with sources recorded in 6. All the Denon original surround modes (see page 28) are compatible with 7. 1-channel playback, so you can enjoy 6. 1-channel sound with any signal source. 2 Number of surround back speakers Though the surround back channel only consists of 1 channel of playback signals for 6. When using speakers with dipolar characteristics in particular, it is essential to use two speakers. Using two speakers results in a smoother blend with the sound of the surround channels and better sound positioning of the surround back channel when listening from a position other than the center. 2 Placement of the surround left and right channels when using surround back speakers Using surround back speakers greatly improves the positioning of the sound at the rear. Because of this, the surround left and right channels play an important role in achieving a smooth transition of the acoustic image from the front to the back.