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You can read the recommendations in the user guide, the technical guide or the installation guide for DENON AVC-A1SR. You'll find the answers to all your questions on the DENON AVC-A1SR in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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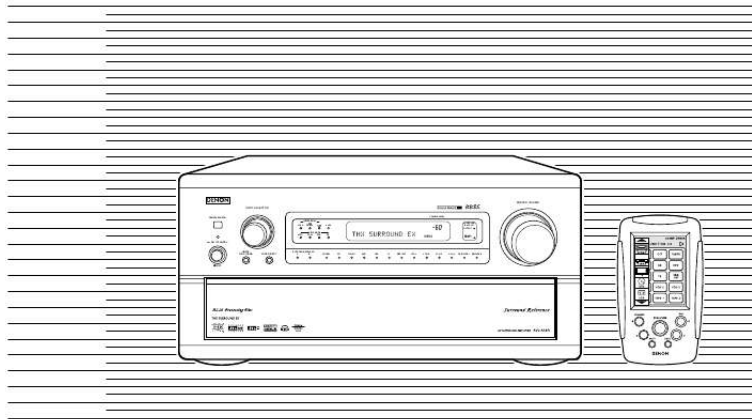
DENON

AV SURROUND AMPLIFIER

AVC-A1SR

OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
ISTRUZIONI PER L'USO

INSTRUCCIONES DE OPERACION
GEBRUIKSAANWIJZING
BRUKSANVISNING



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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. 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.

Never disassemble or modify the set in any way. To be sure you take maximum advantage of all the features the AVC-AISR 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. 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.

This remarkable component has been engineered to provide superb surround sound listening with home theater sources such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources. As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding. 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. 2

ACCESSORIES Check that the following parts are included in addition to the main unit: q Operating instructions AVC-AISR. 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. Please be sure to unplug the cord when you leave home for, say, a vacation.

Digital Surround Sound Decoding Featuring dual 32 bit high speed DSP processors, operating entirely in digital domain, surround sound from digital sources such as DVD, DTV and satellite are faithfully re-created. Dolby Digital is the default digital audio delivery system for North American DVD and DTV, and is available on laser discs as well as some digital satellite direct-to-home services. 1 channels of wide-range, high fidelity surround sound, from sources such as laser disc, DVD and specially-encoded music discs. THX Ultra2 certification is the highest performance level, and provides a rigorous set of performance standards, along with proprietary surround sound post-processing technologies, designed to enhance the surround soundtrack playback experience in the home theater. In addition to improvements to the power amplifier with respect to previous THX Ultra standards, two surround modes have been added: the THX Ultra2 Cinema mode and the THX Music mode. DTS-ES Extended Surround and DTS Neo:6 The AVC-AISR is compatible with DTS-ES

Extended Surround, a new multi-channel format developed by Digital Theater Systems Inc. DTS 96/24 compatibility The AVC-AISR is compatible 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 multi-channel mode on the AVC-AISR with high sound quality of 96 kHz/24 bits or 88. Dolby Pro Logic II decoder Dolby Pro Logic II is a new format for playing multichannel audio signals that offers improvements over conventional Dolby Pro Logic. It can be used to decode not only sources recorded in Dolby Surround but also regular stereo sources into five channels (front left/right, center and surround left/right).

In addition, various parameters can be set according to the type of source and the contents, so you can adjust the sound field with greater precision. 1-channel sound even with 5. 1-channel sources DENON has developed a wide screen mode with a new design which recreates the effects of the multi surround speakers in movie theaters. the result is 7. 1-channel sound taking full advantage of surround back speakers, even with Dolby Pro Logic or Dolby Digital/DTS 5.

Dual Surround Speaker Mode Provides for the first time the ability to optimize surround sound reproduction using two different types of surround sound speakers as well as two different surround speaker positions: (1) Movie Surround Motion picture soundtracks use the surround channel(s) to provide the ambient elements of the acoustic environment they want the audience to realize. This is best accomplished by the use of specially-designed surround speakers that offer a wide diffusion pattern (bipolar dispersion) or by using surround speakers that provide broad dispersion with a minimum of on-axis localization (dipolar dispersion). Side wall mounting (closer to the ceiling) of the surround speakers provides the greatest envelopment, minimizing localization of direct sound from the speakers. (2) Music Surround With full range discrete surround channels, as well as three discrete full range front channels, digital formats such as Dolby and DTS offer thrilling surround sound music listening. Producers of multi-channel discrete digital music recordings almost always favor the use of direct radiating (monopolar) surround speakers, placed in the rear corners of the room, since that is how they configure their studios during the mixing/creation process.

The DENON AVC-AISR provides the ability to connect two different sets of surround speakers, and place them in the appropriate locations in your home theater room, so that you can enjoy both movie soundtracks and music listening, with optimum results and no compromise.



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11. Multi-zone control The AVC-AISR is equipped with two sets of multizone outputs allowing a source other than the one currently being played to be selected. (1) Multi-zone1 These are level adjustable pre-outputs. (A fixed output level can also be selected.) The video signals of the input source selected with the multi-zone1 selector are output. Component Video Switching The AVC-AISR provides 3 sets of component video (Y, R-Y, B-Y) inputs for the DVD, TV and DBS/SAT inputs, and one set of component video outputs to the television, for superior picture quality. Video Select Function Allow you to watch one source (visual) while listening to another source (audio). 14. Seven Identical Power Amplifiers Featuring discrete high current power transistors, the power amp section is THX Ultra certified for top performance with the widest range of speaker systems.

Rated at 170 watts into 8 /ohms, the amp channels feature additional low impedance drive capability. 15. Future Sound Format Upgrade Capability via Eight Channel Inputs & Outputs For future multi-channel audio format(s), the AVCAISR is provided with 7. 1 channel (seven main channels, plus one low frequency effects channel) inputs, along with a full set of 7. 1 channel pre-amp outputs , controlled by the 8 channel master volume control. This assures future upgrade possibilities for any future multi-channel sound format. A/D converters are provided for each channel for digital down-mixing compatibility.

DENON Link This terminal can be used to connect a Denon DVD player for high quality digital multichannel playback. 18. 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. 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). 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. When making connections, also refer to the operating instructions of the other components. Using an improper cable can result in a drop in picture quality. When making connections, also refer to the operating instructions of the other components. 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 (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 (IN) jacks using pin plug cords.

Connecting the pre-out jacks Use these jacks if you wish to connect external power amplifier(s) to increase the power of the front, center, surround and surround back sound channels, or for connection to powered loudspeakers. When using only one surround back speaker, connect it to left channel. OUTPUT

CD player Connecting a CD player R L Connect the CD player's analog output jacks (ANALOG OUTPUT) to this unit's CD jacks using pin plug cords.

SWITCHED (total capacity 100 W) The power to these outlets is turned on and off in conjunction with the POWER 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 100 W. nOTE: Only use the AC OUTLET for audio equipment. Never use them for hair driers, TVs or other electrical appliances. LD player, CDV player, etc.

It is also possible to connect a video disc player, DVD player, video camcorder, game machine, etc. The monitor TV can also be connected in the same way to the VIDEO MONITOR OUT-2 jack. Connecting a tuner Connect the tuner's output jacks (OUTPUT) to this unit's TUNER jacks using pin plug cords. Ground wire MD recorder, DAT deck or other component equipped with digital input/output jacks Only audio signals are input to the digital input jacks. NOTE: 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. Denon Link terminal Use this terminal to connect a Denon DVD player for high quality digital multichannel sound. CD player or other component equipped with digital output jacks LD player or other component equipped with a Dolby Digital RF output jacks Video deck 2 LD player or other component equipped with digital output jacks Use these for connections to audio equipment with digital output.

Use optical cables for optical connections, removing the cap before connecting.

To connect an Dolby Digital AC-3 compatible LD playill not be output if the player and the AVC-AISR are only connected with the component video 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. 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. speaker Impedance - Speakers with an impedance of from 6 to 16 /ohms can be connected for use as front and center speakers. Speakers with an impedance of 6 to 16 /ohms can be connected for use as 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. NOTE: NEVER touch the speaker terminals when the power is on.

Doing so could result in electric shocks. If another pre-main (integrated) amplifier is connected, the multi-zone jacks can be used to play a different program source in another room at the same time. 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 shortcircuited 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.



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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. 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. TRIGGER OUT DC 12V turns on and off when the product's power is turned on and off. CONTROL terminal Perform the following operation before using an external controller connected to the RS-232C terminal: 1. Press the ON/STANDBY button on the main unit and set the unit to the operating mode. 2. Perform the operation to turn off the power from the external control. After checking the above, check the connections of the external controller. The AVC-AISR is equipped with a cooling fan to prevent the temperature inside the set from rising. When making connections, also refer to the operating instructions of the other components. For details on the functions of these parts, refer to the pages given in parentheses ().

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. NOTE: When using only one surround back speaker, connect it to left channel. System setup items and default values (set upon shipment from the factory) Input the combination of speakers in your system and their corresponding sizes (Small for regular speakers, Large for full-size, full-range) to automatically set the composition of the signals output from the speakers and the frequency response. Use this function when using multiple surround speaker combinations for more ideal surround sound.

Once the combinations of surround speakers to be used for the different surround modes are preset, the surround speakers are selected automatically according to the surround mode. Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer. This selects the subwoofer speaker for playing deep bass signals. 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.

boundary Gain compensation Surround Back Speaker Position When using a THX Ultra2 compatible subwoofer, set the subwoofer's frequency response. When using two surround back speakers, set the distance of the two speakers. This parameter is for detecting the maximum level of the low bass signals output from the subwoofer channel in order to protect the subwoofer from damage and prevent unpleasant distorted sounds from being produced. Once all connections with other AV components have been completed as described in "CONNECTIONS" (see pages 4 to 8), make the various settings described below on the monitor screen using the AVC-AISR's on-screen display function. These settings are required to set up the listening room's AV system centered around the AVC-AISR. Use the following buttons to set up the system: This assigns the digital input jacks for the different input sources. Level This sets the output level for the multi-zone1 output jacks. Set this to switch the surround back channel's power amplifier for use for multi-zone2. 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 (from MONITOR 1 outputs only). Set whether or not to lock the system setup settings so that they cannot be changed.

Screen while icons are displayed The on-screen display signals are output with priority to the S-VIDEO input jack during playback of a video component. For example, if the TV monitor is connected to both the AVC-AISR's S-Video and video monitor output jacks and signals are input to the AVC-AISR from a video source (VDP, etc.) connected to both the S-Video and video input jacks, the on-screen display signals are output with priority to the S-Video monitor output.

If you wish to output the signals to the video monitor output jack, do not connect a cord to the S-VIDEO INPUT jack. The AVC-AISR'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 following is an example of the basic layout for a system consisting of eight speaker systems and a television monitor: Check that all the connections are correct, then turn on the main unit's power. Either lightly press on the remote control unit's touch panel or press the LIGHT button to turn on the liquid crystal display. (The back light does not turn on when the touch panel is pressed. 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.

By default the liquid crystal display is set to display for 30 seconds, but this can be changed to approximately 120 seconds using the procedure described below so that operations during system up can be performed securely. Two surround back speakers are required to use the THX Ultra2 Cinema and THX Music modes. Set the surround back speakers so that the distance to the listening point is the same for both the left and right speakers. It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR)) is less than 2 ft (60 cm). With the AVC-AISR it is also possible to use the surround speaker selector function to choose the best layout for a variety of sources and surround modes.

Push the remote control unit's jog stick to the right to display the "SETUP 3/5" page. Press the "SETUP" icon for at least 3 seconds to display the setup screen. Surround speaker selector function This function makes it possible to achieve the optimum sound fields for different sources by switching between two systems of surround speakers (A and B).



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The settings of the different speakers (A only, B only or A+B) are stored in the memory for the different surround modes, so they are set automatically when the surround mode is selected. Push the remote control unit's jog stick to the right to display the "SETUP 4/4" page.

Press the "LCD 30s" button on this page so that this part is displayed in half-tone dot mesh. Using A only (Multi surround speaker system) Using B only (Single surround speaker system) 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 a subwoofer is not installed.
2spkr/1spkr .

Select the number of speakers to be used for the surround back channel. 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. To take full advantage of the performance of the Home THX certified speaker systems, set the front, center and surround speaker size parameters to "Small" and the subwoofer to "Yes". 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. When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes", and when "Subwoofer" is set to "No", "Front" is automatically set to "Large". The composition of the signals output from the different channels and the frequency response are adjusted automatically according to the combination of speakers actually being used. Press "CURSOR/PAGE" at the center of the bottom line on the "AV AMP's" "SETTING 3/5" page so that this part is displayed in half-tone dot mesh. Make the system setups by pushing the jog stick on the remote control unit forward and backward, left and right. At this screen preset the surround speakers to be used in the different surround modes. Set whether or not speakers are connected and, if so, their size parameters.

When either "Large" or "Small" has been set for both speakers A and B on the System Setup Menu (when using both A and B surround speakers), the surround speaker setting screen appears. Select the surround speakers to be used in the different surround modes. To select the surround speaker A: When using surround speakers A B: When using surround speakers B A+B: When using both surround speakers A and B A) If no surround speakers are used (if "None" is set for both A and B): The Crossover Frequency screen appears. B) If both surround speakers A and B are used (if either "Large" or "Small" is set for both A and B): The surround speaker setting screen appears. Speaker type setting when using both surround speakers A and B If "Small" is set for either surround speakers A or B, the output is the same as when "Small" is set for both A and B.

Set the crossover frequency and subwoofer mode according to the speaker system being used. Select "Large" or "Small" not according to the actual size of the speaker but according to the speaker's capacity for playing low frequency (bass sound below frequency set for the Crossover Frequency mode and below) signals. If you do not know, try comparing the sound at both settings (setting the volume to a level low enough so as not to damage the speakers) to determine the proper setting. Input the distance between the listening position and the different speakers to set the delay time for the surround mode. Set the frequency (Hz) below which the bass sound of each main speakers is to output from the subwoofer or from speakers which are set to "Large" (when not using a subwoofer) (crossover frequency).

For speakers set to "Small", sound with a frequency below the crossover frequency is cut, and instead the cut bass sound is output from the subwoofer or speakers which are set to "Large". This crossover frequency mode is valid when "Subwoofer" is set to "Yes" at "Speaker Configuration Setting" or when speakers are set to "Small". FIXED THX: Set to the THX rated 80 Hz crossover frequency. VARIABLE 40, 60, 80, 100, 120 Hz: Set as desired according to your speakers' bass playback ability. We recommend using with the crossover frequency set to "FIXED THX", but depending on the speaker, setting it to a different frequency may improve frequency response near the crossover frequency. Preparations: FL Center FR Measure the distances between the listening position and the speakers (L1 to L6 on the diagram at the right). L1: Distance between center speaker and listening position L1 L2 Subwoofer L2: Distance between front speakers and listening position Listening position L5 L3: Distance between surround speakers and listening position L4 L4: Distance between surround back speakers and listening position L3 SL SR L5: Distance between subwoofer and listening position SBL SBR L6 L6: Distance between surround back L and surround back R The only 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 menu. The low frequency signal range of channels set to "LARGE" are produced from those channels. -- 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 11). 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 - THX" 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. THX is recommended in this play mode so that bass interference is less likely to occur in the room. Select the play mode that provides bass reproduction with body.



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Set the distance between the center speaker and listening position. ", then select the surround speaker(s) from which you want to produce the test tone (A, B or A+B). : A Adjusts the balance of the playback level between the channels when using surround speaker A. : B Adjusts the balance of the playback level between the channels when using surround speaker B. : A+B Adjusts the balance of the playback level between the channels when using surround speakers A and B at the same time.

" can only be selected when both surround speakers A and B have been selected at the "Speaker Configuration" (when both A and B have been set to "Large" or "Small"). Please note that the difference of distance for every speaker should be 6.0 m (20 ft) or less. If you set an invalid distance, a CAUTION notice, such as screen right will appear. In this case, please relocate the blinking speaker(s) so that its distance is no larger than the value shown in highlighted line. Use this setting to adjust so that the playback level between the different channels 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 25.) When using both surround speakers A and B, their playback levels can be adjusted separately.

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 Flashing intervals the third time around and on: 5 dB while the test tone is being produced from the subwoofer When the surround back speaker setting is set to "1spkr" for "Speaker Configuration", this is set to "SB". use the CURSOR 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 Move jog stick "ENTER" back and forth to select the speaker for which you want to output test tones, then move jog stick "ENTER" left and right to adjust so that the volume of the test tones from the various Flashing speakers is the same. 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. After the above settings are completed, press the ENTER button again. the "Channel Level" screen reappears.

Press jog stick "ENTER" again to return to the System Setup Menu screen. The level of each channel should be adjusted to 75 dB (C-weighted, slow meter mode) on a sound level meter at the listening position. If a sound level meter is not available adjust the channels by ear so the sound levels are the same. Because adjusting the subwoofer level test tone by ear is difficult, use a well known music selection and adjust for natural balance. NOTE: When adjusting the level of an active subwoofer system, you may also need to adjust the subwoofer's own volume control. When you adjust the channel levels while in the SYSTEM SETUP CHANNEL LEVEL mode, the channel level adjustments made will affect ALL surround modes. consider this mode a Master Channel Level adjustment mode. After you have completed the SYSTEM SETUP CHANNEL LEVEL adjustments, you can then activate the individual surround modes and adjust channel levels that will be remembered for each of those modes. Then, whenever you activate a particular surround sound mode, your preferred channel level adjustments for just that mode will be recalled. check the instructions for adjusting channel levels within each surround mode on Page 25. You can adjust the channel levels for each of the following surround modes: DIRECT, STEREO, 5CH/7CH STEREO, DOLBY/DTS SURROUND, HOME THX CINEMA, WIDE SCREEN, SUPER STADIUM, ROCK ARENA, JAZZ CLUB, CLASSIC CONCERT, MONO MOVIE, and MATRIX. When using either surround speakers A or B, or when using surround speakers A and B at the same time, be sure to adjust the balance of playback levels between each channel for the various selections of "A or B" and "A and B". When "Yes" is selected "Boundary Gain Compensation" can be selected and the compensation set to "OFF". If the bass sound seems too strong Set "Boundary Gain Compensation" to "ON". This activates a circuit that cuts the low frequencies of 55 Hz and under.

Select "ON" or "OFF" according to how strong you like the bass sound to be. Press jog stick "ENTER" to return to the THX Audio Setup screen. When two surround back speakers have been set in the Speaker Configuration settings (page 11), set the distance of the speakers. There is not displayed when "1spkr" selected. This setting is necessary to achieve the optimum effect in the THX Surround EX, THX Ultra2 Cinema and THX Music modes.

It is recommended that SBL/SBR speakers are placed together as close as possible. Make these settings when "Yes" is selected for the subwoofer in the Speaker Configuration settings. There is not displayed when "No" selected. Select "Surround Back Speaker Position" on the THX Audio Setup screen, then press jog stick "ENTER". Select the settings according to the distances of the two surround back speakers. Select "Boundary Gain Compensation", then press jog stick "ENTER". Press jog stick "ENTER" to return to the THX Audio Setup screen. Select "Exit" then press the ENTER button to return to the System Setup Menu screen. This unit features a subwoofer peak limit control which prevents distortion and damage in the loudspeaker system by controlling the maximum bass volume level. With this feature you may set the maximum bass level for the system.

This feature operates with or without a subwoofer in the system. The master volume is set to "30 dB" when test tones are output. The test tones are for confirming the low frequency playback limits and are played at an extremely high level. When using a low output subwoofer, be very careful about irregular operations exceeding clipping by for example turning down the subwoofer's attenuator before starting then slowly turning the attenuator up to the listening level. Also, when the subwoofer is set to "NO" in the speaker configuration, the test tones are output from the front speakers. When using front speakers with low input resistance, check that the sound is not clipped at sections where the signal is strong on the CD music source before starting the peak limit setting. The peak limit setting should not be performed if the music source cannot be played with the master volume set at "15". set the front speakers to "small" and the subwoofer to "YES" in the speaker configuration.



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When this is done, the low frequencies are cut, so the effect is insufficient. In this case, the input resistance of the subwoofer or front speakers is insufficient so clipping may occur when playing music.

We recommend switching to a subwoofer with a higher input resistance. This setting assigns the digital input jacks of the AVC-AISR for the different input sources. The screen switches and a test noise is produced from the speaker system. Increase the master volume level until the test noise is distorted. The test noise (bass sound) is distorted when it sounds as if the input is excessively high (when the sound crackles).

To select the digital input jack Select "OFF" for input sources for which no digital input jacks are used. Press the ENTER button at the point where the test noise starts sounding distorted. the AVC-AISR automatically sets the subwoofer peak limit level. This prevents future inadvertent subwoofer overload due to excessively strong bass content when the master volume control is at a high level. Clear the subwoofer's peak limit level setting by specifying "Peak Limiter" and "OFF".

The OPTICAL 5 and 6 jacks on the AVC-AISR's rear panel are equipped with an optical digital output jack for recording digital signals on a DAT deck, MD recorder or other digital recorder. Use this for digital recording between a digital audio source (stereo - 2 channel) and a digital audio recorder. Do not connect the output of the component connected to the OPTICAL 5 OUT jack on the AVC-AISR's rear panel to any jack other than the OPTICAL 5 IN jack. Do not connect the output of the component connected to the OPTICAL 6 OUT jack on the AVC-AISR's rear panel to any jack other than the OPTICAL 6 IN jack.

This function allows you to adjust the time delay of the video and audio signals and store these settings for the different input sources. The setting is made while watching a DVD or other software, so it is not made here. By default, this is not displayed when no digital signals are being input. Multi-zone1 is a pre-output with an output level adjustment function. Multi-zone2 is a fixed output level pre-output. Using the power amplifier assignment function described below, it is also possible to connect speakers to the SB/MULTI speaker terminals.

When there are multiple input signals, the input signals are detected and the input signal to be output from the video monitor output terminal is selected automatically in the following order: component video, S-Video, composite video. component: The signal connected to the component video terminal is always played. Video conversion is not conducted, so no image is output from the monitor output terminal when there is no input signal to the component terminal. Only DVD, TV or DBS can be selected. NOTE: Down-converting from the component video signal to the S-Video and composite video signal is not possible, so when not using the component video monitor output terminal connect the player using the S-Video or composite video input terminal. Level" then press jog stick "ENTER". Select the desired setting, then press jog stick "ENTER". Variable: The level can be adjusted freely using the buttons on the remote control unit (M. zONE1 4/5, VOLUME UP and VOLUME DOWN). -40 dB, 0 dB: The output level is fixed at the set level and the volume can no longer be adjusted.

Make this setting to switch the power amplifier for the surround back channel to Multi-zone2. Select "Power Amp Assignment" then press jog stick "ENTER". Select "Surround Back" to use as the surround back channel, "Zone2" to use as multi-zone2, then press jog stick "ENTER". The surround mode last used for the four types of input signals shown below is stored in the memory and the signal is automatically played with that surround mode the next time it is input. note that the surround mode setting is also stored separately for the different input sources.

Q Analog and PCM 2-channel signals w 2-channel signals of Dolby Digital, DTS or other multichannel format e Multichannel signals of Dolby Digital, DTS or other multichannel format r Multi-channel signals when playing sources using the EXT. Select the item to be set (push the jog stick to the up and down) then select the parameter (push the jog stick to the left and right).) are reflected in the same way as for other input signals. Select "Auto Surround Mode" on the System Setup Menu screen, then press jog stick "ENTER". Select "ON" if you want to use the auto surround mode, "OFF" if you do not want to use it. Select according to the specifications of the player being used. SB (SBL): Select when only one surround back channel (SBL) is connected. SBL/SBR: Select when two surround back channels (SBL and SBR) are connected. SW Level: Select according to the specifications of the player being used. If the OVER LOAD indicator is displayed on the fluorescent tube, adjust the input level to between 0 and -20 dB. Use this to turn the on-screen display (messages other than the menu screens) on or off. Select "Digital Multi Ch In" on the System Setup Menu screen, then press jog stick "ENTER". DENON Link setting : Set this when connecting a Denon DVD player using the Denon Link terminal. Set to "ON" if you want to use the terminal, "OFF" if you do not want to use it. Select "DENON Link" (using the up and down cursor buttons) then select ON or OFF (using the left and right jog stick).

When set to "ON", also set the playback input when there is no digital signal. When playing sources using the DENON LINK terminal, also connect the analog external input terminal (EXT-1) (see page 7), and set the "No Digital Signal" setting to "EXT-1". In" (using the up and down cursor buttons) then select ON or OFF (using the left and right jog stick). When set to "ON", the four terminals (Coaxial 1 to 4) are assigned to the desired input source as a single digital multichannel input. When set to "OFF" the four terminals (Coaxial 1 to 4) are assigned to individual input sources. If you do not want to use the surround back channel. NOT USED If you do want to use the surround back channel, set according to the specifications of the connected player. The system setup settings can be locked so that they cannot be changed easily. When the setup lock function is activated, the settings listed below cannot be changed, and "Setup Locked" is displayed when related buttons are operated. Channel level settings (including test tones) To unlock, press the System Setup button again and display the Setup Lock screen, then select "OFF" and press jog stick "ENTER".

this completes system setup. Once these settings are made, there is no need to change them unless different AV components are connected or the speakers are repositioned.



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The included remote control unit (RC-871) can be used to operate not only the AVC-A1SR but other remote control compatible DENON components as well. Furthermore, it is equipped with a function for learning the control signals of remote control units of other manufacturers, so it can also be used to operate non-DENON remote control compatible video components. Using the remote control unit Point the remote control unit at the remote sensor on the main unit as shown on the diagram.

The remote control unit can be used from a straight distance of approximately 7 meters/22 feet from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor. The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote sensor. nOTES: · It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light. Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction.

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. This button can be pressed at any time during the system setup process to complete the process. The changed settings are entered and the on-screen display turns off. Finally set the remote control unit (RC-871) display time setting to a time that is short but long enough that operation is possible. When a component video signal is input and when the "Video Input Mode" is set to the component fixed mode at system setup, the on-screen display is only displayed when the System Setup, Surround Parameters and On Screen buttons are operated. Before operating Operating the remote control unit Either lightly press on the remote control unit's touch panel or press the LIGHT button to turn on the liquid crystal display. To operate with the remote control unit, set the remote control unit's screen to the "AVAMP 1/5" page. Move the remote control unit's jog stick "ENTER" left and right to display the necessary page. Several seconds are required from the time the power operation switch is set to the "⏻ ON/STANDBY" 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.

Set the power switch to this position to turn the power on and off from the included remote control unit (RC-871). ⏻ OFF The power turns off and "ON/STANDBY" indicator is off. In this position, the power cannot be turned on and off from the remote control unit (RC871).) The display switches between normal and halftone dot mesh each time the CURSOR/PAGE button is pressed, thus switching between the page mode and the cursor mode. 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 (All 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 AVC-A1SR's surround decoder is selected automatically upon playback. This mode can be selected for all input sources other than PHONO. 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 RF (exclusive RF signal playback mode) This can only be selected when the program source is set to VDP.

Decoding and playback are only performed when RF signals are being input. This is used when the LD player has an Dolby Digital-RF (AC-3RF) output jack, but does not have a PCM digital output jack. IN (external decoder input jack selection mode) The signals being input to the external decoder input jacks are played. (page 23) NOTE: · Note that noise will be output when CDs or LDs recorded in DTS format are played in the "PCM" or "ANALOG" mode. Select the "DTS" mode when playing signals recorded in DTS from a laser disc player or CD player.

Note 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. The pre-out output (including the speaker output) is automatically turned off when headphones are connected. NOTE: To prevent hearing loss, do not raise the volume level excessively when using headphones. The volume level is displayed on the master volume level display. The volume can be adjusted within the range of 80 to 0 to 18 dB, in steps of 0. 5 dB. However, when the channel level is set as described on page 13 or page 25, if the volume for any channel is set at +1 dB or greater, the volume cannot be adjusted up to 18 dB. 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 "AUTO" or "DTS". nOTE: · The digital input indicator will light (green) when playing CD-ROMs containing data other than audio signals, but no sound will be heard.

Use this to turn off the audio output temporarily. The LOCK LED lights when digital signals are being input properly. If the LED does not light, check whether the digital input component setup (page 15) and connections are correct and whether the component's power is turned on. [4] Combining the currently playing sound with the desired image 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, providing higher quality sound. Simulcast playback Use this switch to monitor a video source other than the audio source. Recording sources other than digital inputs selected in the RECOU mode are also output to the multi source audio/video output jacks. @@The brightness changes in 3 steps each time the button is pressed, and finally the display turns off. With this set it is possible to record Dolby Digital and DTS multichannel signals converted into 2-channel analog signals. At this time, the signals output from the OPTICAL 5 and 6 digital output terminals are down-mixed analog signals converted into digital signals.



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Also, the unit's operating status can be checked during playback by pressing the remote control unit's ON SCREEN button. Descriptions of the unit's operations are also displayed on the front panel display. In (Main unit) addition, the display can be switched to check the unit's operating status while playing a source by pressing the STATUS button. This operation is possible when the setting for using both surround speakers A and B is made at "Speaker Configuration" in the System Setup Menu. With the exception of the case in [2] below, only the signal connected to the analog input jacks are output from the RECOUT and multi-room output jacks.

[1] Playing one source while recording another (RECOUT mode) @@When RECOUT mode is set to "source", with the AVC-A1SR it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder. The Dolby Headphone play mode is set when headphones are connected to the PHONES jack during playback in the DOLBY/DTS surround mode. When this is done, signals encoded in the Dolby Headphone mode are automatically output from the recording output terminals (analog and digital) and can be recorded. NOTE: Do not disconnect the headphones during recording. The play mode switches as shown below each time the button is pressed.

@@ The external input mode can be set for any input source. @@@@@@@@@@@@@@@@@@@@@@ (Refer to ANOTHER ROOM on the diagram below. @@ NOTE: · For the AUDIO output, use high quality pin-plug cords and wire in such a way that there is no humming or noise. PURE DIRECT mode In this mode, the music is played with an extremely high level of sound quality. When this mode is set, all the video-related circuits are turned off so that music signals can be reproduced with high quality. when an analog input mode or EXT. IN mode is selected, the digital processing circuitry is also turned off to achieve analog sound with even higher purity. The AVC-A1SR is equipped with audio pre-out terminals for which the volume is adjustable (M-ZONE1) and composite video output terminals as the MULTI ZONE1 output terminals. A separately sold stereo power amplifier can be connected to enjoy multi-zone playback. 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. STEREO mode Use this mode to adjust the tone and achieve the desired sound while watching images. When connected as shown on the diagram below using connection cords included with Denon power amplifiers, the power amplifier's power can be turned on and off using the "M-ZONE1 ON/OFF" button on the remote control unit. Before playing with the surround function 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 13) 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 SURROUND and HOME THX CINEMA modes. The adjusted levels for the different modes are automatically stored in the memory. Test tones are output from the different speakers. Press the CURSOR/PAGE button to highlight the display, then use the jog stick to adjust the channel level. The AVC-A1SR is equipped with audio pre output terminals with a fixed output level (M-ZONE2) as the MULTI ZONE2 output terminals.

(These are not video outputs.) Settings can be made at the system setup menu so that the same source as the M-ZONE2 pre-out terminals can be played from the speakers connected to the M-ZONE2 speaker terminals. After completing the adjustment, press the CURSOR/PAGE button again so that the display is no longer highlighted, then press the TEST TONE button to complete the operation. After adjusting using the test tones, make the desired settings for each surround mode to be played, then use the procedure described below to adjust the levels of the various channels. The setting mode switches in the following order each time the button is pressed: NOTE: When the main unit is set to the recording output mode, the M-ZONE2 remote control unit key cannot be operated.

REMOTE CONTROL UNIT: Press the CURSOR/PAGE button on the "SURROUND 2/5" page to highlight the display, then press jog stick "ENTER". REMOTE CONTROL UNIT: Move jog stick "ENTER" back and forth to adjust the level of the selected speaker. SW channel level can be turned off by decreasing one step from 12 dB. REMOTE CONTROL UNIT: Once the channel level adjustment is completed, press the CURSOR/PAGE button again so that the display is no longer highlighted, then press the CH. Playing modes for different sources the AVC-A1SR is equipped with many surround modes.

We recommend using the surround modes as described below in order to achieve the maximum effect for the specific signal source. This mode is optimized for playing sources recorded in Dolby Digital Surround EX. This is the optimum mode for playing sources recorded in DTS-ES. When playing movies, setting this mode sometimes results in a more natural sound. When the surround back speaker setting is set to "1spkr" for "Speaker Configuration", this is set to "SB".

This function makes it possible to lower the volume of the front channels (FL, C and FR) or the rear channels (SL, SR, SBL and SBR) together. Use it for example to adjust the balance of the sound from the different positions when playing multi-channel music sources. NOTE: Surround modes indicated with an asterisk (*) require the use of two surround back speakers. tHX Ultra2 CINEMA* and THX MUSIC MODE* · These modes are suited for playing 5. Select the desired surround mode for the movie and music sources.

MAIN UNIT: Select "FADER" using the FUNCTION knob after selecting "CH. This mode is optimized for playing 5. For sources recorded in Dolby Surround as well, this mode provides the same power as with 5. This mode is optimized for playing 5. By suspending all the video circuits, analog input music playback can be played with optimum quality. If there is no need for tone control or distribution of the low frequencies in function of the speaker configuration, select the DIRECT mode to achieve the best sound quality. The effects are different for each of the surround modes. This is a surround mode for playing 6. One of two playing modes, MUSIC (for music sources) or CINEMA (for movie sources), can be selected according to your preferences. dOLBY PROLOGIC II · This surround mode plays stereo sources developed by Dolby Laboratories in 5.

Select one of the three playback modes according to your tastes. Turn the CONTROL knob counterclockwise to adjust the volume of the front side collectively.



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rEMOTE CONTROL UNIT: Move jog stick "ENTER" to the right side to adjust the volume of the surround side collectively. Move jog stick "ENTER" to the left side to adjust the volume of the front side collectively. This is only displayed when setting the fader control.

The channel whose channel level is adjusted lowest can be faded to 12 dB using the fader function. If the channel levels are adjusted separately after adjusting the fader, the fader adjustment values are cleared, so adjust the fader again. Though we recommend selecting the surround mode as described above, other surround modes can also be selected. When the HOME THX CINEMA button is pressed, the surround mode is set as follows according to the signal that is played: q w e r THX Surround EX (THX Ultra2 Cinema) Home THX CINEMA THX 5. When the HOME THX CINEMA mode is set when a DVD is played, check the DVD player's digital output setting and change the setting to one for which Dolby Digital and DTS bit stream signals can be output ("bit stream", for example).

The signals are decoded in the Dolby Pro Logic II Cinema mode before undergoing THX processing. pL II E. The signals are decoded in the Dolby Pro Logic II emulation mode before undergoing THX processing. nEO:6 C . The signals are decoded in the NEO:6 Cinema mode before undergoing THX processing. This is the recommended play mode for using the surround back channel when DTS NEO:6 is selected. nORMAL (OFF) . This is the recommended play mode when Dolby Pro Logic II is selected. The surround back channel is not played. Checking the input signal The input signal can be checked by pressing the remote control unit's ON SCREEN button.

) "MATRIX" is displayed when matrix processing is conducted on the surround back channel, "DISCRETE" is displayed when discrete processing is conducted. Not displayed when no identification signal is recorded. Play a program source with the mark. In addition, screen information is displayed in the following order when the ON SCREEN button is pressed repeatedly: It is not displayed when the input mode is set to "Analog" or "EXT. Dolby Digital mode (only with digital input) and DTS Surround (only with digital input) Play a program source with the , mark. for operating instructions , refer to the manuals of the respective components. The channel status information during playback of Dolby Digital and DTS sources can be checked using the "STATUS" button on the main unit. The surround back LED lights green when playing in the THX SURROUND EX mode. Play a program source with the mark. The same signals as those of the surround channels are output from the surround back channels.

mTRX ON . The surround channel signals undergo digital matrix processing and are output from the surround back channels. sB OFF (OFF). No signal is played from the surround back channels. 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. 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 THX Surround EX or DTS-ES or in the normal 5. 1-channel mode without using the surround back speakers when the software is not recorded in THX Surround EX or DTS-ES. 1-channel sources or sources on which the identification signal described below is not recorded. The SIGNAL DETECT indicator lights when playing sources on which a special identification signal is recorded. When watching a DVD or other video source, the picture on the monitor may seem delayed with respect to the sound. In this case, adjust the audio delay to delay the sound and synchronize it with the picture. When "Default" is selected and the jog stick is moved to the left, "CINEMA EQ. " are automatically turned off, "SB CH OUT" is reset, "CHANNEL LEVEL" and the tone is set to the default value. (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, Dolby Digital, DTS Surround 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. This parameter is displayed only when playing compatible sources in DTS mode. 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.

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. When this function is activated, the following message appears on the main unit's display: With a movie source, for example, adjust so that the movement of the actors' lips is synchronized with the sound. Press jog stick "ENTER" to return to the System Setup Menu screen. The number indicates the normalization level when the currently playing program is normalized to the standard level. NOTE: The audio delay setting does not apply when playing in the EXT.

IN mode or in the analog input direct mode or stereo mode (only when the crossover frequency is set to "FIXED - THX" or front speaker is set to "Large"). Select the function to which the component you want to play is connected. After several seconds the normal display reappears and the settings you have made are automatically set. When making parameter settings, the display will return to the regular condition several seconds after the last button was pressed and the setting will be completed.



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