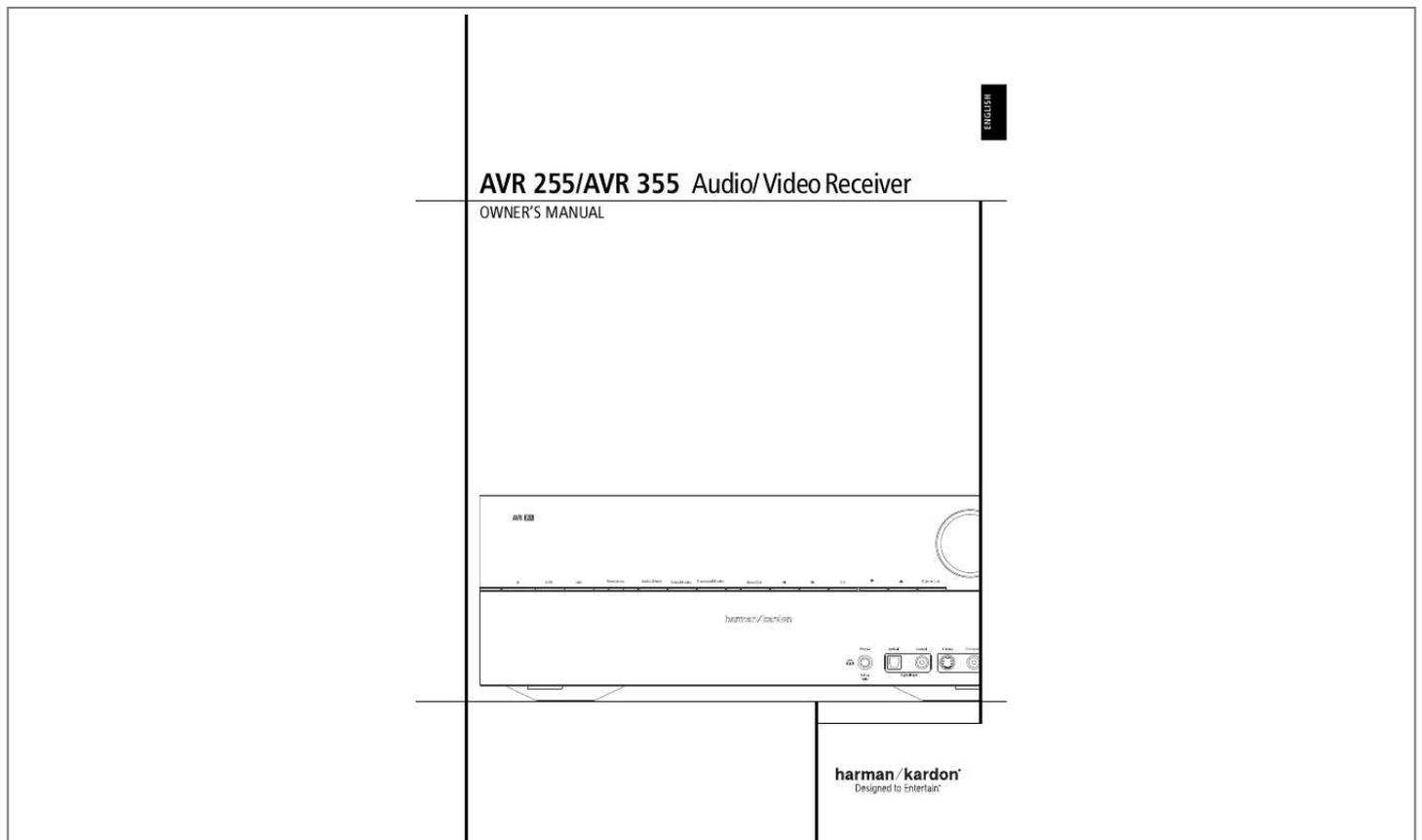




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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 255. You'll find the answers to all your questions on the HARMAN KARDON AVR 255 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HARMAN KARDON AVR 255
User guide HARMAN KARDON AVR 255
Operating instructions HARMAN KARDON AVR 255
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Manual abstract:

2 TABLE OF CONTENTS Introduction Thank you for choosing Harman Kardon! With the purchase of a Harman Kardon AVR 255/AVR 355 you are about to begin many years of listening enjoyment. Designed to provide all the excitement and detail of movie soundtracks and every nuance of musical selections, the AVR 255/AVR 355 are truly multichannel receivers for the new millennium. In addition to the traditional 5.1 digital decoding modes such as Dolby Digital and DTS, they offer the latest advancements in surround technology such as Dolby® True HD and DTS®-HD Master Audio™ and the latest 7.1 channel versions of Harman's own Logic 7 technology. The AVR 255/AVR 355 have been engineered so that it is easy to take advantage of all the power of their digital technology. Full-color, high-definition, multi-language on-screen menus, fully color coded connection jacks and terminals make installation fast and simple. However, to obtain the maximum enjoyment from your new receiver, we urge you to read this manual. A few minutes spent learning the functions of the various controls will enable you to take advantage of all the power the AVR is able to deliver. If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer.

They are your best local sources of information. Description and Features The AVR serves as the hub of your home entertainment system, providing a wide range of listening possibilities for almost any audio or video program source, whether it is the broadcast of a movie or sporting event in HDTV or a vintage mono or stereo recording. When playing digital audio sources from either the conventional optical and coaxial inputs, or through the HDMI 1.3a compliant connections, the AVR decodes Dolby True HD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD data streams. Two-channel stereo and matrix surround sources benefit from all current Dolby Pro Logic IIx modes and DTS Neo:6.

The latest version of our proprietary Logic 7® process is on-board to create a wider, more enveloping sound field and more defined surround channel positioning, regardless of the type of source material. Dolby Virtual Speaker is available to create enveloping sound fields from front left and right speakers, and the latest Dolby Headphone circuitry creates an amazing sense of openness with headphones. The AVR takes the "video" part of its name seriously. Along with three HDMI inputs and three 100MHz analog component video inputs (two on the AVR 255), the AVR's video processing allows you to scale the output signal to 1080p loop-through to match the requirements of your specific video display. Thanks to award winning Faroudja® DCDi Cinema™ technology, your video sources never looked better.

Tying audio and video together, the AVR provides A/V sync delay so that the lip sync errors commonly seen when digital video processing is used in a source, program or video display are eliminated. An important addition to the AVR's impressive list of features is EzSet/EQ™, which automates the configuration process to make it quicker, easier and more precise. Using the special microphone supplied with the unit, EzSet/EQ takes the guesswork out of entering speaker "size" and crossover information, delay times for all channels and output levels. In addition to the configuration settings, EzSet/EQ also includes room equalization so that the signals sent to each speaker are tailored to provide accurate sonic quality with your specific combination of speaker type, room size and other factors that influence room acoustics. With EzSet/EQ, your system is custom-configured in a few minutes with accuracy that previously required expensive and hard-to-use test equipment. In tandem with EzSet/EQ, the AVR includes a full set of manual configuration settings for those who wish to custom-trim their system even further. A Quadruple Crossover bass management system makes it possible to enter different crossover settings for each speaker group. A Stereo-Direct mode bypasses the digital processor to preserve all of the subtleties of older analog, two-channel materials, while bass management, available in the surround and Stereo-Digital modes, improves your ability to tailor the sound to suit your room acoustics or taste. For the ultimate in flexibility, the AVR's feature connections for four video devices, all with both composite and S-Video inputs. Two additional audio inputs are available, and a total of six digital inputs and two outputs make the AVR capable of handling all the latest digital audio sources.

For compatibility with the latest HDTV video sources and progressive scan DVD players, the AVR also features wide-bandwidth, lowcrosstalk component video switching. Coax and optical digital outputs are available for direct connection to digital recorders. A video recording output and a color-coded eight-channel input make the AVR virtually future-proof, with everything needed to accommodate tomorrow's new formats right on board. With one simple connection between the AVR 355 and the optional Harman Kardon , you are able to listen to materials stored on your compatible Apple® iPod®**. Your AVR's system remote control has been preprogrammed with control codes that enable you to select tracks for playback and navigate many of your iPod's functions, even from across the room. The Bridge™ will even let you charge your iPod. The AVR 355's flexibility and power extend beyond your main home theater or listening room. The AVR includes a sophisticated multizone control system that allows you to select one source for use in the main room and a different one (Audio only) in a second room. Complete control over volume is possible with a separate infrared control link. To make it easy to operate the AVR from a remote room, a separate "Zone II" remote is included.

Additional multiroom options include the option to assign two of the AVR's output channels to the multiroom system and the ability to link the AVR to innovative A-BUS® keypads for multiroom operation without the need for external amplifiers. The AVR's powerful amplifier uses traditional Harman Kardon high-current design technologies to meet the wide dynamic range of any program selection. Harman Kardon invented the high-fidelity receiver more than fifty years ago. With state-of-the-art circuitry and time-honored circuit designs, the AVR 255 and AVR 355 are the perfect combination of the latest in digital audio technology, a quiet yet powerful analog amplifier in an elegant, easy-to-use package. ENGLISH **Compatible with all iPod models equipped with a dock connector, including third-generation "Click Wheel" models and newer.

Not compatible with iPod shuffle models. Although iPod photo models are compatible, images stored on the iPod can only be viewed using the controls on the iPod, not with the AVR remote. INTRODUCTION 3 Safety Information I Dolby True HD, Dolby Digital Plus, Dolby Digital EX and Dolby Pro Logic® II and IIx Decoding, and the full suite of DTS® modes, including DTS-HD Master Audio, DTS-HD and DTS-ES® 6.



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I Discrete & Matrix and Neo:6® I Seven channels of high-current amplification with two channels assignable to either surround back or multiroom applications I Harman Kardon's exclusive Logic 7® processing, along with a choice of Dolby Virtual Speaker processing for use when only two speakers are available I Dolby Headphone to create spacious, open sound fields when using headphones I Harman Kardon's advanced EzSet/EQTM automatically configures speaker settings and sets room equalization for quick, easy and accurate system setup I HDMI with audio/video processing, upscaling to 720p/1080p and repeater for increased cable length without signal degradation I Three HDMITM 1.3a and three (two on AVR 255) assignable high-bandwidth analog component inputs for compatibility with the latest high-definition video sources I Front panel analog A/V inputs I Front panel digital inputs for easy connection to portable digital devices and the latest video game consoles I Connects to Harman Kardon's (optional) for charging, playback and control of a compatible Apple® iPod® device (AVR 355 only) I Input titling for all input sources (except tuner) I Multiple digital inputs and outputs I Full-color, high-definition, multi-language On-screen menu and display system I A/V Sync delay adjustable for each input delivers perfect lip sync with digital programs or video displays I 6-Channel/8-Channel Direct Input for Use with Future Audio Formats I Extensive bass management options, including four separate crossover gpossibility that the rubber padding on the bottom of the unit's feet may leave marks on certain wood or veneer materials.

Use caution when placing the unit on soft woods or other materials that may be damaged by heat or heavy objects. Some surface finishes may be particularly sensitive to absorbing such marks due to a variety of factors beyond Harman Kardon's control, including the nature of the finish, cleaning materials used, and normal heat and vibration caused by the use of the product, or other factors. We recommend that caution be exercised in choosing an installation location for the component and in normal maintenance practices, as your warranty will not cover this type of damage to furniture. Cleaning When the unit gets dirty, wipe it with a clean, soft, dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the unit. Moving the Unit Before moving the unit, be certain to disconnect any interconnection cords with other components, and make certain that you disconnect the unit from the AC outlet.

ENGLISH Unpacking The carton and shipping materials used to protect your new receiver during shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move, or should the unit ever need repair. To minimize the size of the carton in storage, you may wish to flatten it. This is done by carefully slitting the tape seams on the bottom and collapsing the carton. Other cardboard inserts may be stored in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag. If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping protection are recyclable. Please respect the environment and discard those materials at a local recycling center. It is important that you remove the protective plastic film from the front-panel lens.

Leaving the film in place will affect the performance of your remote control.

SAFETY INFORMATION 5 Front Panel Controls J C D 0 AVR Info Resolution Audio Effects Video Modes Surround Modes Back/Exit A B OK L K Source List Composite Analog 2 1 6 7 8 9 A E F 4 5 3 G B H I 1 2 3 4 5 6 7 Volume Control System Power Control Power Indicator Headphone Jack Menu Navigation Buttons OK Button AVR Button 8 Info Button 9 Resolution Button) Audio Effects Button ! Video Modes Button @ Source List Button # Main Information Display \$ Speaker/Channel Input Indicator % Surround Mode Button ^ Back/Exit Button & Digital Optical Front Input * Digital Coax Front Input (Video Front Input Jacks Ó Remote Sensor Window 6 FRONT PANEL CONTROLS Front Panel Controls 1 Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the AVR is muted, adjusting volume control will automatically release the unit from the silenced condition. 2 System Power Control: When the Main Power Switch on the rear panel is "ON," press this button to turn on the AVR; press it again to turn the unit off (to Standby). Note that the Power Indicator 3 will turn white when the unit is on. 3 Power Indicator: This LED will be illuminated in amber when the unit is in the Standby mode to signal that the unit is ready to be turned on.

When the unit is in operation, the indicator will turn white. 4 Headphone Jack: This jack may be used to listen to the AVR's output through a pair of headphones. Be certain that the headphones have a standard 6,3 mm stereo phone plug. Note that the speakers will automatically be turned off when the headphones are connected. When configuring your system using EzSet/EQ, the calibration microphone should be plugged into this jack using the supplied adaptor that converts the small mini-plug at the end of the microphone's cord to a 6,3 mm plug.

5 Navigation: These buttons are used to navigate the AVR's menus and to operate the tuner. 6 OK Button: Press this button to select the currently highlighted item. 7 AVR Settings Button: Press this button to access the AVR's main menu. 8 Info Settings Button: Press this button to directly access the AVR's Setup Source submenu, which contains the settings for the current source. 9 Resolution: Pressing this Button once and then using the Up/Down Navigation Buttons 5 changes the AVR's video output resolution to these settings: 576i, 576p, 720p, 1080i or 1080p. The AVR is set to default to 576i when first switched on, or if you reset it later. This resolution has been chosen to ensure that the On Screen Display information is visible on your TV even with analog S-Video or Composite (CVBS) signals. Having selected the best resolution for your system, confirm with the OK Button 6. The Front Panel Display now shows "Res Change, Cancel". If you press OK now, or do nothing for 20 seconds, the AVR returns to normal play mode.

To confirm the new resolution, press the L Button 5, which changes the Display from "Cancel" to "Accept", then press the OK Button 6.



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The new resolution is now in use.) Audio Effects: Press this button to directly access the Audio Effects submenu, which allows adjustment of the tone and other controls. See the Initial Setup section for more information. ! Video Modes: Press this button for direct access to the Video Modes submenu, which contains settings that may be used to improve the picture if necessary after you have adjusted the picture settings using the video display or TV. @ Source List Button: Press this Button to open the on-screen Source Selection Menu with the slide-in Source List already open. If you are not using your TV for on-screen reference, use the Front Panel Information Display which shows the information you need. Scroll up and down with the KL Buttons 5, select the desired Input by pressing the OK Button 6 and exit the Source Selection function by pressing the Source List Button @ again. # Main Information Display: This display delivers messages and status indications to help you operate the receiver. \$ Speaker/Channel Input Indicators: These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration.

The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and the two outer boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for that position. (See page 22 for more information on configuring speakers.) The letters inside each of the center boxes display active input channels.

For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels being received at the digital input. When the letters flash, the digital input has been interrupted. (See page 33 for more information on the Channel Indicators). NOTE: When you have reassigned the surround back speakers to the remote zone using the MULTI ROOM SETUP menu, the boxes that indicate the presence of the surround back speakers will automatically disappear, reflecting the fact that the main listening area is now configured for 5.

1-channel operation. (See page 35 for more information on reassigning the surround back speakers for multiroom use.) % Surround Modes: Press this button to select a surround sound (e.g., multichannel) mode. The Surround Modes menu will appear on screen, and the menu line will appear on the lower line of the front-panel display. Use the front-panel or remote K/L Buttons to highlight a different menu line: Auto Select, Virtual Surround, Stereo, Movie, Music or Video Game. Each line represents a type of audio signal, and is set to the surround mode the AVR will automatically select when it detects the audio signal. You may manually select a different mode for each type of audio. Press the OK Button when the menu line is highlighted, and the available surround mode options for the current signal will appear.

Use the K/L Buttons to select the desired mode, and press the OK Button to engage it. Press the Back/Exit Button to exit the Surround Modes menu and display the next higher menu in the hierarchy. See the Advanced Functions section for more information on surround modes. ^ Back/Exit: Press this button to return to the previous menu. When the main AVR menu is displayed, press this button to exit the menu system. & Digital Optical Front Input: Connect the optical digital audio output of an audio or video product to this jack. * Digital Coax Front Input: This jack is normally used for connection to the output of portable digital audio devices, video game consoles or other products that have a coax digital jack. (Video Front Input Jacks: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. Ó Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed.

ENGLISH FRONT PANEL CONTROLS 7 Rear Panel Connections Z 0 7S59 a 8 X L Je Kg QPTYB 1 3 2 b 6 c f d W4 0 1 2 3 4 5 6 7 8 9 A B C D E V U D F G H I J K L M N O P Q R S T O F A E N G R C U V W X Y Z a b c d e H M I AM Antenna FM Antenna Analog 2 Audio IN Analog 2 Audio OUT Subwoofer Output Analog 5 Audio IN Analog 1 Audio IN Analog 4 Audio OUT Bridge II Connector (Stereo Jack IN AVR 255) 8-Channel Direct Inputs Digital Audio Outputs Video Monitor Outputs Reset Button Front Speaker Outputs Center Speaker Outputs Surround Speaker Outputs Switched AC Accessory Outlet RS-232 Serial Port AC Power Cord Video 2 Component Video Inputs Component Video Outputs Video 1 Component Video Inputs Download Mode Button Coaxial Digital Inputs Surround Back/Multiroom Speaker Outputs Video 2 Video Outputs Video 1 Video Inputs Optical Digital Inputs Analog 4 Audio IN Video 2 Video Inputs Remote IR Output and Input Zone 2 IN Preamp Outputs HDMI Output Video 3 Video Inputs Analog Audio 3 IN HDMI Inputs Zone 2 OUT (AVR 355 only) A-BUS Connector (AVR 355 only) Remote IR Carrier Out (AVR 355 only) Video 3 Component Video Inputs (AVR 355 only) f A-BUS IR Out (AVR 355 only) g Main Power Switch NOTE: To assist in making the correct connections for multichannel input/output and speaker connections, all connection jacks and terminals have been color coded in conformance with the latest CEA standards as follows: Front Left: White Front Right: Red Center: Green Surround Left: Blue Surround Right: Gray Surround Back Left: Brown Surround Back Right: Tan Subwoofer (LFE): Purple Digital Audio: Orange Composite Video: Yellow Component Video "Y": Green Component Video "Pr": Red Component Video "Pb": Blue 0 AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the antenna. 1 FM Antenna: Connect the supplied indoor or an optional external FM antenna to this terminal. 2 Analog 2 IN: Connect these jacks to the PLAY/OUT audio jacks on any audio or video source. 3 Analog 2 OUT: Connect these jacks to the REC/IN audio jacks on any audio or video source.

4 Subwoofer Output: Connect this jack to the line-level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. 5 Analog 5 IN: Connect these jacks to the PLAY/OUT audio jacks on any audio or video source. 6 Analog 1 IN: Connect these jacks to the PLAY/OUT audio jacks on any audio or video source. 7 Analog 4 OUT: Connect these jacks to the REC/IN audio jacks on any audio or video source.

8 REAR PANEL CONNECTIONS Rear Panel Connections 8 Digital Media Player (DMP) Connector (AVR 355 only): With the AVR turned off, connect the optional Harman Kardon to this proprietary connector, and dock your compatible Apple iPod.



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When the Digital Media Player source is selected, you may view your iPod's control and navigation messages on your video display (if one is connected to one of the Video Monitor Outputs B), and in the Upper and Lower Display Lines. You may navigate the iPod and select tracks for playback using the Buttons F, the OK button X and Transport Controls E on your AVR remote. See page 34 for more information. On the AVR 255, this input is an extra Audio Input named Stereo Jack IN, where you can connect any device with a stereo mini-jack such as an MP3-player or portable CD player from its headphone output jack or line out jack. 9 8-Channel Direct Inputs: These jacks are used for connection to source devices such as DVD-Audio, Blu-ray, HD-DVD or SACD players with discrete analog outputs. Depending on the source device in use, all eight jacks may be used, though in many cases only connections to the front left/right, center, surround left/right and LFE (subwoofer input) jacks will be used for standard 5.1 audio signals. A Digital Audio Output: Connect this jack to the matching digital input connector on a digital recorder such as a CD-R or MiniDisc recorder. B Video Monitor Outputs: Connect these jacks to the composite and/or S-Video input of a TV monitor or video projector to view the onscreen menus and the output of any standard Video or S-Video source selected by the receiver's video switcher.

C RS-232 Reset: This switch is only used during a software upgrade. A standard processor reset is performed by pressing and holding the front-panel OK Button while the receiver is in Standby. D Front Speaker Outputs: Connect these outputs to the matching + or - terminals on your left and right speakers. In conformance with the new CEA color code specification, the White terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on Front Left speaker with the older color coding, while the Red terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on Front Right speaker. Connect the black (-) terminals on the AVR to the black (-) terminals on the speakers. See page 16 for more information on speaker polarity. E Center Speaker Outputs: Connect these outputs to the matching + and - terminals on your center channel speaker. In conformance with the new CEA color code specification, the Green Terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on speakers with the older color coding. Connect the black (-) terminal on the AVR to the black negative (-) terminal on your speaker. (See page 16 for more information on speaker polarity.)

F Surround Speaker Outputs: Connect these outputs to the matching + and - terminals on your surround channel speakers. In conformance with the new CEA color code specification, the Blue terminal is the positive, or "+" terminal that should be connected to the red (+) terminal on the Surround Left speaker with older color coding, while the Gray terminal should be connected to the red (+) terminal on the Surround Right speaker with the older color coding.

Connect the black (-) terminal on the AVR to the matching black negative (-) terminals for each surround speaker. (See page 16 for more information on speaker polarity.) G Switched AC Accessory Outlet: This outlet may be used to power any device that you wish to have turn on when the AVR is turned on with the System Power Control switch 2.

H RS-232 Serial Port: This specialized connector may be used with your personal computer in case Harman Kardon offers a software upgrade for the receiver at some time in the future. Leave the Mode switch M popped out in the Operate position, unless the AVR is being upgraded. The Reset switch C is used only during the upgrade process. I AC Power Cord: Connect the AC plug to an unswitched AC wall output. AVR 355 has a detachable Power Cord. AVR 255 has a fixed Power Cord. J Video 2 Component Video Inputs: These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video outputs. Do not use these inputs if HDMI connection is possible, use the HDMI inputs instead. K Monitor Component Video Outputs: Connect these outputs to the component video inputs of a video projector or monitor. When a source connected to one of the three Component Video Inputs JLe is selected the signal will be sent to these jacks. L Video 1 Component Video Inputs: These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video outputs. Do not use these inputs if HDMI connection is possible, use the HDMI inputs instead. Note: All component inputs/outputs can be used for RGB signals too, in the same way as described for the Y/Pr/Pb signals, then connected to the jacks with the corresponding color. RGB connection is not possible if the source outputs a separate sync signal. M Update Mode Button: Leave the Mode switch popped out in the Operate position, unless the AVR is being upgraded. The Reset switch C is used only during the upgrade process.

N Coaxial Digital Inputs: Connect the coax digital output from a DVD player, HDTV receiver, the output of a compatible computer sound card playing MP3 files or streams, LD player, MD player or CD player to these jacks. The signal may be either a Dolby Digital signal, DTS signal, a 2 channel MPEG 1 signal, or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks. ENGLISH REAR PANEL CONNECTIONS 9 Rear Panel Connections O Surround Back/Multiroom Speaker Outputs: These speaker terminals are normally used to power the surround back left/surround back right speakers in a 7.1 channel system. However, they may also be used to power the speakers in a second zone, which will receive the output selected for a multiroom system. To change the output fed to these terminals from the default of the Surround Back speakers to the Multiroom Output, you must change a setting in the MULTIROOM MENU of the OSD system. See page 35 for more information on configuring this speaker output. In normal surround system use, the brown and black terminals are the surround back left channel positive (+) and negative (-) connections and the tan and black terminals are the surround back right positive (+) and negative (-) terminals. For multiroom use, connect the brown and black SBL terminals to the red and black connections on the left remote zone speaker and connect the tan and black SBR terminals to the red and black terminals on the right remote zone speaker.

P Video 1 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jack on a VCR. Q Video 1 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a TV or other video source. R Optical Digital Inputs: Connect the optical digital output from a DVD player, HDTV receiver, the output of a compatible computer sound card playing MP3 files or streams, LD player, MD player or CD player to these jacks.



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The signal may be either a Dolby Digital signal, a DTS signal, a 2 channel MPEG 1 signal, or a standard PCM digital source. S Analog 4 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a TV or other audio or video source.

T Video 2 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a second VCR or other video source. U Remote Input and Output: If the AVR's front-panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to the Remote IN jack. The Output connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment.

V Zone 2 IR Input: Connect the output of an IR sensor in a remote room to this jack to operate the AVR's multiroom control system. W Preamp Outputs: Connect these jacks to an optional, external power amplifier for applications where higher power is desired. X HDMI Output: Connect this jack to the HDMI input on a compatible HDMI-equipped video display. Y Video 3 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on any video source. Z Analog 3 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on any audio or video source. a HDMI Inputs: Connect the HDMI output of video sources such as a DVD player, set-top box or HDTV tuner to either of these jacks. b Zone 2 Outputs (AVR 355 only): Connect these jacks to an optional audio power amplifier to listen to the source selected by the multiroom system in a remote room. c A-BUS Connector: Connect this jack to an optional A-BUS-certified remote room keypad or amplifier to extend the multiroom capabilities of your AVR. See page 18 for more information on A-BUS. d Remote IR Carrier Output (AVR 355 only): The output of this jack is the full signal received at the Remote Sensor Window or input through the Remote IR Input U including the carrier frequency that is removed from signals at the Remote IR Output U.

Use this output to extend IR remote signals to the input of compatible products by direct connection or through the use of optional, external IR "blasters". If you are in doubt as to which of the two IR Output jacks to use, we recommend that you consult with your dealer or installer, or check with the manufacturer of the external equipment you wish to control. e Video 3 Component Video Inputs (AVR 355 only): These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video outputs. Do not use these inputs if HDMI connection is possible, use the HDMI inputs instead. f A-BUS IR Out (AVR 355 only): This output sends out the remote signal received by an A-Bus unit. This makes it possible to connect other Harman Kardon products to the AVR via their "IR IN" jacks, controlling them from another room with an A-Bus unit. g Main Power Switch: Press this button ON to apply power to the AVR. When the switch is ON, the unit is placed in a Standby mode, as indicated by the amber LED 3. This button MUST be ON to operate the unit. To turn the unit off completely and prevent the use of the remote control, this switch should be pressed OFF.

NOTE: This switch is normally left in the "ON" position. With the AVR's powerful processor, you may connect up to three HDMI-equipped source devices to the HDMI inputs using a single-cable connection, while benefiting from superior digital audio and video performance. However, if your video display is not HDMI-compatible, you will need to connect the source device to one of the other source inputs, selecting a coaxial or optical digital audio input and analog video input. See the Connections and Installation sections for more information. If your video display has an HDMI input, but some of your sources have only analog video outputs, you may still rely on just the HDMI video connection to your display; the AVR will automatically transcode analog video signals to the HDMI format.

NOTE ON VIDEO CONNECTIONS: When connecting a video source product such as a VCR, DVD player, satellite receiver, cable set-top box, personal video recorder or video game to the AVR 255/AVR 355, you may use either a composite or S-video connection, but not both. 10 REAR PANEL CONNECTIONS Main Remote Control Functions A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a AVR Power On AVR Power Off Source Selectors (The Bridge only on AVR 355) Audio Effects Button Transport Controls Menu Navigation LKM N Sleep Button Background Light Button (AVR 355 only) Main Tuning Buttons Last Button Numeric Keys Video Mode Button Menu Button Activity Button Back/Exit Button Master Volume Disc Menu Button Mute Button Surround Mode Button Learn Button (AVR 355 only) Device Power OFF Button Device Power ON Button Transmitter Window OK Button Settings Button Zone Select Button Red/Green/Yellow/Blue Color Buttons W A B U V C D L S K J O X H a N M F Q R I P NOTE: The function names shown here are each button's feature when used with the AVR. Most buttons have additional functions when used with other devices. See page 46-50 for a list of these functions. E Y Z G T MAIN REMOTE CONTROL FUNCTIONS 11 ENGLISH Main Remote Control Functions The remote is capable of operating the AVR 355/AVR 255 and most Harman Kardon CD changers or players, CD Recorders and Tape decks, using the control codes that are part of the remote. à AVR Power On: When the AVR 355/AVR 255 is in the Standby mode, as indicated by the Power Indicator 3 glowing amber, press this button to turn the unit on. AVR Power Off: When the AVR 355/AVR 255 is turned on, press this button to place it in the Standby mode. Note that in this condition, the unit is still connected to AC Power. ç Source Selectors: Press these buttons to select an input source for the AVR 355/AVR 255. Audio Effects Button: Press this button to go directly to the Audio Effects Menu. Transport Controls: These buttons are used to control Play, Play Forward, Play Reverse, Stop, Pause and Record functions on compatible Harman Kardon compact disc players/changers and cassette tape decks. Menu Navigation Buttons: Use these buttons to move Up, Down, Left or Right when using the Menu system of the AVR 355/AVR 255. © Sleep Button: Press this button to place the unit in the Sleep mode. Each press of the button selects the amount of time that will remain before the unit will automatically go into the Standby mode, as shown in the Main Information Display #, in the following order: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF Light Button (AVR 355 only): Press this button to activate the remote control's background light. î Channel/Page Button: When the tuner has been selected, this control selects a preset radio station.

Press these buttons while operating a cable, satellite or HDTV set-top box or a television to change channels.



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The Page control may be available with some DVD players when playing a DVD Audio disc containing pages of images associated with a track. Last Button: When the tuner is in use, pressing this button returns to the last station tuned. When controlling a cable, satellite or HDTV set-top box or a TV, press this button to return to the previous television channel. K Numeric Keys: These buttons serve as a ten-button numeric keypad to enter tuner preset positions or track numbers with CD players/ changers or to tune stations directly. ↵ Video Modes Button: Press this button to go directly to the Video Modes Menu. Menu Button: When using a H/K DVD player with the receiver, you can activate the DVD Menu with this button. Ñ Activity Button: This button may be programmed to transmit a series of commands with a single press, which is useful for powering on all devices and selecting the correct settings on each device, or for selecting multi-digit channels with a single press. See the section on Programming the Remote for more information on Activities. Press this button to enter the Activity programming function, or before pressing one of the Buttons that you have programmed with an Activity sequence, to begin transmitting the entire sequence.

∅ Back/Exit Button: Press this button to go back to the previous Menu or to exit a Menu. Master Volume: Press these buttons to raise or lower the AVR 355/AVR 255's volume. ∅ Disc Menu: Press this button to open the menu of a DVD disc that you are watching. Ⓜ Mute Button: Press this button to momentarily silence the AVR 355/AVR 255. β Surround Modes Button: Press this button to enter the Surround Modes selection Menu.

Learn Button (AVR 355 only): Press and hold for 3 seconds to enter the Learn procedure. Please refer to the section concerning operation of the remote control. ü Device Power Off: Turns Off the power of other devices that you have selected to control with the Source Selector Buttons ç. Device Power On: Turns On the power of other devices that you have selected to control with the Source Selector Buttons ç. Transmitter Window: Point this area of the remote toward the receiver when using the remote.

OK Button: This button confirms settings and orders in the menus. ¥ Settings Buttons: Open the AVR, INFO or SOURCE settings with one press of one of these buttons. Zone Select: This button slides sideways to switch the remote control between controlling Zone 1 or Zone 2 of the AVR. Holding the button pressed for some seconds will directly turn off the Sleep time selection. α Color Buttons: These four buttons are used as color buttons when controlling a TV set. They have various functions when controlling other devices. Please refer to the remote control Code Tables page 46-50. 12 MAIN REMOTE CONTROL FUNCTIONS Zone 2 Remote Control Functions (Zone 2 Remote Control only with AVR 355) The Zone II remote may be used in either the same room where the AVR is located, or it may be used in a separate room with an optional infrared sensor that is connected to the AVR's Zone 2 input jack V or an A-BUS device. A Power Off: When used in the room where the AVR is located, press this button to place the unit in Standby. When it is used in a remote room with a sensor that is connected to the Zone 2 jack V, this button turns the MultiRoom system off.

B AVR Settings: Open the AVR settings info screen with this Button. C Back/Exit Button: Press this button to go back to the previous Menu or to exit a Menu.

D Source Selectors: Press these buttons to select an input source for the AVR 355/AVR 255. E Menu Navigation Buttons: Use these buttons to move Up, Down, Left or Right when using the Menu system of the AVR 355/AVR 255. F Volume Up/Down: When used in the room where the AVR is located, press this button to raise or lower the volume in that room. When it is used in a remote room with a sensor that is connected to the Zone 2 Jack V, this button will raise or lower the volume in the remote room. G Mute: When used in the room where the AVR is located, press this button to temporarily silence the unit. When it is used in a remote room with a sensor that is connected to the Zone 2 Jack V, this button will temporarily silence the feed to the remote room only. Press the button again to return to the previous volume level. Important Note: No matter in which room the Zone II remote is used, as with the main remote it is important to remember to press the Source Selector button D that corresponds to the unit you wish to operate before you change the device to be controlled.

H Transport Control Buttons: These buttons do not have any functions for the AVR, but they are programmed for the forward/ reverse play operation of a wide variety of Harman Kardon CD or DVD players, and audio or video- cassette recorders. ENGLISH A G D B C I J K E L F M H A B C D E F G H I J K L M Power Off AVR Settings Back/Exit Button Source Selectors Menu Navigation Buttons Volume Up/Down Mute Transport Controls Sleep Button Settings Info Button Menu Button OK Button Zone Select Buttons NOTE: The Zone II.4 remote may be used in either the same room where the AVR is located, or it may be used in a separate room with an optional infrared sensor that is connected to the AVR's Zone 2 IN input jack V. When it is used in the same room as the AVR, it will control the functions of the AVR or any compatible Harman Kardon products in that room. When it is used in a separate room via a sensor connected to the Zone 2 IN Jack V, the buttons for power, input source, volume and mute will control the source and volume for the second zone, as connected to the Zone 2 Out Jacks b.

(See page 35 for complete information on using the Multiroom system.) ZONE 2 REMOTE CONTROL FUNCTIONS 13 Zone 2 Remote Control Functions I Sleep Button: Press this button to place the unit in the Sleep mode. Each press of the button selects the amount of time that will remain before the unit will automatically go into the Standby mode, as shown in the Main Information Display #, in the following order: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF Holding the button pressed for some seconds will directly turn off the Sleep time selection. J Settings Info Button: Open the Settings Info Menu for any Source with this Button. K Menu Button: When using a H/K DVD player with the receiver, you can activate the DVD Menu with this button.

L OK Button: This button confirms settings and orders in the menus. M Zone Select Buttons: Press the Select Button to switch the Zone 2 Remote Control between Zone 1 function (The white Button lights up green) or Zone 2 function (The white Button light up red). 14 ZONE 2 REMOTE CONTROL FUNCTIONS Installation and Connections After unpacking the unit, and placing it on a solid surface capable of supporting its weight, you will need to make the connections to your audio and video equipment. Some source or display components in your system may use DVI (Digital Video Interface) for digital video connections.



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DVI carries the same digital video signals as HDMI but uses a larger connector and does not transport audio or control signals. In most cases, you may mix and match DVI and HDMI digital video connections by using optional connector adapters. Note, however, that some DVI-equipped video displays are not compatible with the HDCP copy protection coding that is increasingly carried with signals connected via HDMI. If you have an HDMI source and a DVI-equipped display, you may occasionally be unable to view a program if the display does not include HDCP. This is not the fault of the AVR or your source; it simply indicates that the video display is not compatible. · HDMI 1.

2 (and higher) sources should be connected as shown above for HDMI 1.1, except that a separate analog connection is not needed for SACD players. HDMI 1.3 sources should be connected as shown above for HDMI 1.1, except that a separate analog connection is not needed for SACD, HD-DVD or Blu-ray players. In addition, the AVR will convert analog video signals to the HDMI format, upscaling to highdefinition 720p or 1080p resolution. You may view the AVR's own on-screen display menus using the HDMI output. HDMI cable runs are usually limited to about 3 meters. The AVR incorporates a repeater, which allows an additional 3 meters of cable between the source device and the video display. If your video display or source device is not HDMI-capable, you will need to use either a coaxial or optical digital audio connection and one of the analog video connections (composite, S- or component video), if available, as described in the next paragraphs.

· It is not possible to feed an analog composite or S-video signal to a recorder or the AVR's multizone system when an HDMI input is in use. If an HDMI-equipped source also has analog audio and video outputs, connect them to the Video 2 or Video 3 Video T Y and Audio M S on the AVR. · In some instances, HDMI-equipped sources will not permit more than one video output at a time, and thus you cannot use the same source in the main listening room and with the recorder or remote zone at the same time. This is not a fault of the AVR, but rather a function of the content protection systems that are part of the HDMI standard. ENGLISH Audio Equipment Connections There are two formats for audio connections: digital and analog.

Digital audio signals are of higher quality, and are required for listening to sources encoded with digital surround modes, such as Dolby Digital and DTS. There are three types of digital audio connections: HDMI, coaxial and optical. HD-DVD(R) or Blu-Ray(R) players with Dolby Digital Plus, Dolby True HD, DTS-HD Master Audio and DTS-HD require an HDMI connection for the transfer of digital audio. Any one type of digital audio connection may be used for other source devices, but never more than one for the same source. However, it's okay to make both analog and digital audio connections at the same time to the same source.

Since the AVR is capable of processing the audio and video portions of an HDMI signal, if your video display device has an HDMI input, you may make a single HDMI connection from your source device (such as a DVD player) to the AVR. In that case no separate digital audio connection is required. We recommend that you use high-quality interconnect cables when making connections to source equipment and recorders to preserve the integrity of the signals.

When making connections to audio source equipment or speakers it is always a good practice to unplug the unit from the AC wall outlet. This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them. HDMI Input Connections The different "Version" levels of HDMI define which type of audio signals it is compatible with. Based on the lowest level of HDMI among your sources, the connections to the AVR should be made as follows: · HDMI 1.0 sources carry digital video and multichannel or 2-channel PCM audio signals only. Connect the HDMI output of a 1.0 source to either of the HDMI Inputs a on the AVR.

If the product is a DVD-Audio player or other source that has multichannel analog audio outputs, connect them to the 8-Channel Direct Inputs 9. With an HDMI 1.0 source, particularly a DVD player, make certain that the menus in the source device are set to "Bitstream Out" or "Original" so that 5.1 digital audio is available. If you find that 5.1 Dolby Digital or DTS audio is not available on the HDMI connection, it will be necessary to make an additional connection between the source and the AVR 255/AVR 355 to either the Coaxial NÓ or Optical R* Digital Inputs. · HDMI 1.1 sources carry the multichannel digital audio output from DVD-Audio players in addition to the digital video. If you have an HDMI 1.1-equipped product, the only connection needed for listening in the main room is from the HDMI output of the source to either of the HDMI Inputs a on the AVR.

If the player has SACD, HD-DVD or Blu-ray capability, you will need to connect the analog outputs of the source to the 8-Channel Direct Inputs 9. HDMI Connections HDMITM is the abbreviation for High-Definition Multimedia Interface, which is quickly becoming the standard connection point between advanced video/audio source products and displays, particularly for high-definition video signals. HDMI is a digital connection, eliminating the need to convert signals back and forth from digital to analog to deliver a higher quality signal when used with digital sources. The signals carried on HDMI may, but do not always, include audio, offering the possibility of a complete one-wire connection from a source to the AVR. However, it is important to note that there are a number of different versions of the HDMI standard in use.

Before connecting any HDMI products to your AVR, it is helpful to find out in advance their level of HDMI connectivity. HDMI Output Connections Connect the HDMI Output X to an HDMI input on your video display. Thanks to the AVR 255/AVR 355's video processing system, all video input signals are converted to an HDMI output, so only one connection is required between the AVR and your display. INSTALLATION AND CONNECTIONS 15 Installation and Connections Referring to drawing of the remote control on page 11, there is a section of 7 buttons marked C, (AVR 355: 8 Buttons) near the top of the remote designated "Source Selectors": Cable/Sat, DVD, Media Server, Radio, TV, Game and AUX. Each of these buttons corresponds to a "source input".

The AVR's flexible design allows you to use almost any combination of audio and video connections for each source device. The goal of the installation is to match up each of your source devices, e.g., DVD player and cable television box, with the correct connectors on the AVR. You may connect a source device to any appropriate input connectors. Note which audio and video inputs are used for each device in Table A5 in the appendix.



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Table A1 indicates the default input-connection assignments, any of which may be changed to match the actual connections in your system. The precise connections to be made depend on the capabilities of the source device and your video display (TV). Select the best audio and video connections for each source. Analog and Digital Input Connections 1.

Connect the analog output of a CD player to any of the analog audio inputs. NOTE: When the CD player has both fixed and variable audio outputs it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or so high that the signal is distorted. 2. Connect the analog Play/Out jacks of a cassette deck, MD, CD-R or other audio recorder to the analog audio input jacks 2. Connect the analog Record/In jacks on the recorder to the audio output jacks 3 on the AVR. 3. Connect the digital output of any digital sources such as a CD or DVD changer or player, advanced video game, a digital satellite receiver, HDTV tuner or digital cable set-top box or the output of a compatible computer sound card to the Optical and Coaxial Digital Inputs RN*&. We recommend connecting the coaxial digital audio output of your DVD player to the Coax 1 Digital Audio Input N, since that digital input is assigned to the DVD source by default. If your DVD player has HDMI connection, use HDMI connection instead. Although there is no official source on the AVR named CD, Phono or Audio, you may assign the audio device to an available source, such as TV (if the Cable/Sat source is in use for broadcast television), Game or AUX.

6. Connect the supplied FM antenna to the FM (75 ohm) connection 1. The FM antenna may be an external roof antenna, an inside powered or wire lead antenna or a connection from a cable system. Note that if the antenna or connection uses 300-ohm twin-lead cable, you should use a 300-ohm-to-75-ohm adapter to make the connection. 7.

With the AVR 355 turned off, connect the optional Harman Kardon to Digital Media Player (DMP) Connector 8. Your compatible Apple® iPod® may be docked in when you wish to use it as your audio source device. This function is available on the AVR 355 only. The AVR 255 features a STEREO JACK Input instead to which all sorts of portable devices can be connected via the headphone output of such device. 8.

Connect the front, center and surround speaker outputs DEFO to the respective speakers. You can then add the name of the unit to the name of the assigned input, to make it read for example: "AUX - CD". (Please note that the AVR does not have a Phono input with RIAA for direct hook-up to a record player. You must use a separate RIAA preamplifier between a record player and the AVR) NOTE: If you wish for your digital source device to be available for use by the multiroom system, you will need to connect its analog audio outputs to the appropriate inputs on the AVR 255/AVR 355, as the multiroom system is not capable of distributing digital signals to the remote zone. 4. Connect the Coaxial or Optical Digital Outputs A on the rear panel of the AVR to the matching digital input connections on a CD-R or MiniDisc recorder. 5. Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM and GND screw terminals 0. To assure that all the audio signals are carried to your speakers without loss of clarity or resolution, we suggest that you use high-quality speaker cable.

Many brands of cable are available and the choice of cable may be influenced by the distance between your speakers and the receiver, the type of speakers you use, personal preferences and other factors. Your dealer or installer is a valuable resource to consult in selecting the proper cable. Regardless of the brand of cable selected, we recommend that you use a cable constructed of fine, multistrand copper with a cross-section greater than 2 mm². Cable with a cross-section of 1.5 mm² may be used for short runs of less than 4 m. We do not recommend that you use cables with a cross-section less than 1 mm² due to the power loss and degradation in performance that will occur. Cables that are run inside walls should have the appropriate markings to indicate listing with any appropriate testing agency standards. Questions about running cables inside walls should be referred to your installer or a licensed electrician who is familiar with the applicable local building codes in your area. When connecting wires to the speakers, be certain to observe proper polarity. Note that the positive (+) terminal of each speaker connection now carries a specific color code as noted on page 8.

However, most speakers will still use a red terminal for the positive (+) connection. Connect the "negative" or "black" wire to the same terminal on both the receiver and the speaker. NOTE: While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase and optimal performance, consult the identification plate on your speaker or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer.

We also recommend that the length of cable used to connect speaker pairs be identical. For example, use the same length piece of cable to connect the front-left and front-right or surround-left and surround-right speakers, even if the speakers are a different distance from the AVR. 16 INSTALLATION AND CONNECTIONS Installation and Connections 9. Connections to a subwoofer are normally made via a line level audio connection from the Subwoofer Output 4 to the line-level input of a subwoofer with a built-in amplifier. When a passive subwoofer is used, the connection first goes to a power amplifier, which will be connected to one or more subwoofer speakers.

If you are using a powered subwoofer that does not have line-level input connections, follow the instructions furnished with the speaker for connection information. 10. If an external multi-channel audio source with 5.1 outputs such as an external digital processor/decoder, DVD-Audio, SACD, Blu-ray or HD-DVD player is used, connect the outputs of that device to the 8-Channel Direct Inputs 9, or, more easy, use the HDMI connection between such a device and the AVR, or both. If a multichannel analog audio connection is required for certain lossless formats (e.g. DVDAudio, SACD, HD-DVD or Blu-ray Disc), you may make both connections. To listen to the multichannel disc, first select the HDMI source input, then select the 6-/8-channel analog audio inputs, and the AVR will retain the last video source you selected. 1. Connect a VCR's audio and video Play/Out jacks to the Video 2 and Analog 4 In jacks ST on the rear panel.

The Audio and Video Record/In jacks on the VCR should be connected to the Video 2 and Analog 4 Out jacks P 7 on the AVR.



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2. Connect the digital audio outputs of a CD, MD or DVD player, satellite receiver, cable box or HDTV converter to the appropriate Optical or Coaxial Digital Inputs R N&*. NOTE: When connecting a device such as a digital cable box or other set-top tuner product with a digital audio output, we recommend that you connect both the digital and analog outputs of the product to your AVR. The audio input polling feature of the AVR will then be able to make certain that you have a constant audio feed, since it will automatically switch the audio input to the analog jacks if the digital feed is interrupted or not available for a particular channel. 3. Connect the Composite and S-Video (if SVideo device is in use) Monitor Output B jacks on the receiver to the composite and SVideo input of your television monitor or video projector. 4. If your DVD player and monitor both have component video connections, connect the component outputs of the DVD player to the Video 1 Component Video Inputs L. Note that even when component video connections are used the audio connections must still be made to either one of the analog audio inputs or any of the Optical or Coaxial Digital Input jacks R N. 5. If another component video device is available, connect it to the Video 2 or Video 3 Component Video Input jacks Je. The audio connections for this device should be made to either one of the audio input jacks or any of the Optical or Coaxial Digital Input jacks R N. 6. If the component video inputs are used, connect the Component Video Output K to the component video inputs of your TV, projector or display device. 7. If you have a camcorder, video game or other audio/video device that is connected to the AVR on a temporary, rather than permanent basis, connect the analog, video and digital audio outputs of that device to the Front Panel Inputs &*(. ENGLISH Video Equipment Connections Video equipment is connected in the same manner as audio components. Again, the use of high-quality interconnect cables is recommended to preserve signal quality. To ensure best video performance S-Video sources should be connected to the AVR only with their S-Video In/Outputs, not with their composite video connectors too. If you have already connected a source device to one of the HDMI inputs as explained in the Audio Equipment section, then you have automatically made a video connection at the same time, as the HDMI signal includes both digital audio and video components. If your video display or source device is not HDMI-capable, you will need to use one of the analog video connections (composite, S- or component video), if available, as described below. If the source device is not capable of transmitting its digital audio signal through the HDMI connection, then use one of the coaxial or optical digital audio inputs for the source.

INSTALLATION AND CONNECTIONS 17 Installation and Connections System and Power Connections The AVR is designed for flexible use with multiroom systems, external control components and power amplifiers. **Main Room Remote Control Extension** If the receiver is placed behind a solid or smoked glass cabinet door, the obstruction may prevent the remote sensor from receiving commands. In this event, the remote sensor of any Harman Kardon or other compatible device, not covered by the door, or an optional remote sensor may be used. Connect the Remote IR Output of that device or the output of the remote sensor to the Remote IR Input jack U. If other components are also prevented from receiving remote commands, only one sensor is needed. Simply use this unit's sensor or a remote eye by running a connection from the Remote IR Output jack U to the Remote IR Input jack on Harman Kardon or other compatible equipment. **Zone II IR Link (Limited options on AVR 255)** The key to remote room operation is to link the remote room to the AVR's location with wire for an infrared receiver and speakers or an amplifier.

The remote room IR receiver (this can be an optional IR receiver or any other remotable Harman Kardon device in the remote room with IR sensor integrated) should be connected to the AVR via standard coaxial cable. Connect the Remote IR Output of the device or of the optional sensor with the Zone II IR Input jack V on the AVR's rear panel. If other Harman Kardon compatible source equipment is part of the main room installation, the Remote IR Output jack U on the rear panel should be connected to the IR IN jack on that source device. This will enable the remote room location to control source equipment functions. When a remote IR sensor is used to control nonHarman Kardon source equipment, we recommend that you make a direct connection or use an optional, external IR "blaster" connected to the Remote IR Carrier Output Jack d. If you are in doubt as to which IR Output jack to use for the equipment in your system, contact your dealer or installer, or the manufacturer's support site and ask whether the unit to be controlled uses "full carrier" or "stripped" carrier IR commands. When "full carrier commands" are used, make the connection to the Remote IR Carrier Output Jack d. Otherwise, make the connection to the Remote IR Output Jack U as noted above (IR Carrier Output available on AVR 355 only). NOTE: All remotely controlled components must be linked together in a "daisy chain". Connect the IR OUT jack of one unit to the IR IN of the next to establish this chain.

Multiroom Audio Connections Depending on your system's requirement and distance from the AVR to the remote room, three options are available for audio connection: **Option 1 (on AVR 355):** Use high-quality, shielded audio interconnect phono cable from the AVR's location to the remote room. In the remote room, connect the interconnect cable to a stereo power amplifier. The amplifier will be connected to the room's speakers. At the AVR, plug the audio interconnect cables into the Zone 2 Out Jacks b on the AVR's rear panel. **Option 2 (on AVR 355):** Place the amplifier that will provide power to the remote location speakers in the same room as the AVR, and connect the Zone 2 Out jacks b on the rear panel of the AVR to the audio input of the remote room amplifier.

Use the appropriate speaker wire to connect the optional power amplifier to the remote speakers. High-quality wire of at least 2.5 mm² is recommended for long multiroom connections. **Option 3 (on AVR 255 and AVR 355):** Taking advantage of the AVR's built-in seven-channel amplifier, it is possible to use two of the amplifier channels to power speakers in the remote room. When using this option you will not be able to use the full 7.

1-channel capabilities of the AVR in the main listening room, but you will be able to add another listening room without additional external power amplifiers. To use the internal amplifiers to power a remote zone, connect the speakers for the remote room location to the Surround Back/Multiroom Speaker Outputs O.



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