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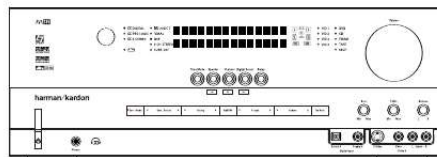
You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 335. You'll find the answers to all your questions on the HARMAN KARDON AVR 335 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HARMAN KARDON AVR 335
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Power for the Digital Revolution™

AVR 335

AUDIO/VIDEO RECEIVER
OWNER'S MANUAL



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Manual abstract:

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 335 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 335 is versatile and multifeatured, incorporating a wide range of listening options. In addition to Dolby* Digital and DTS® decoding for digital soundtracks, a broad choice of Matrix surround-encoded or Stereo surround modes are available for use with CD, VCR, TV broadcasts and the AVR 335's own FM/AM tuner. Along with Dolby Digital EX, Dolby Pro Logic* II and IIx, DTS Neo:6®, Dolby 3 Stereo, and Hall and Theater modes, the AVR 335 offers Harman International's exclusive Logic 7® processing in both 5.1 and 7.1 versions to create a wider, more enveloping field environment and more defined fly-overs and pans. Another exclusive is VMAx®, which uses proprietary processing to create an open, spacious sound field even when only two front speakers are available.

Dolby Virtual Speaker is also available to create an enveloping sound field when fewer than six speakers are used. The latest Dolby Headphone modes provide a much more open and realistic presentation for private headphones listening. In addition to providing a wide range of listening options, the AVR 335 is easy to configure so that it provides the best results with your speakers and specific listening-room environment. On-screen menus combine with the EzSet+ system to automate speaker configuration and overall setup, resulting in a perfectly balanced sound field presentation that accurately reproduces the artist's intent. For the ultimate in flexibility, the AVR 335 features connections for five video devices, all with both composite and S-video inputs.

Two additional audio inputs are available, and eight digital inputs make the AVR 335 capable of handling all the latest digital audio sources. For compatibility with the latest HDTV video sources and progressive scan DVD players, the AVR 335 also features two-input, wide-bandwidth, low-crosstalk, component video switching. The front panel offers coax and optical digital inputs for direct connection to digital recorders. Two video recording outputs, preamp-out and a color-coded eight-channel input, make the AVR 335 virtually future-proof, with everything needed to accommodate tomorrow's new formats right onboard. The AVR 335's flexibility and power extend beyond your main home theater or listening room.

The AVR 335 includes a sophisticated multizone control system that allows you to select one source for use in the main room and a different source for audio and video distribution to a second zone with the option to assign two of the AVR 335's output channels to the multiroom system. Complete volume control in the second zone is possible with a separate infrared control link. To make it easy to operate the AVR 335 from a remote zone, a separate "Zone II" remote is included. The AVR 335'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 335 is the perfect combination of the latest in digital audio technology, a quiet yet powerful analog amplifier in an elegant, easy-to-use package. I A wide range of digital and matrix surround modes, including Dolby Digital, Dolby Digital EX, Dolby Pro Logic IIx, Dolby Virtual Speaker, Dolby Headphone, DTS®, DTS-ES® Discrete and Matrix and DTS 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, available for the first time with both 7.1 and 5.1 processing in a variety of modes, and two modes of VMAx® I system with included microphone automatically configures speakers and sets delay times and output levels for optimal sound presentation I Programmable remote delivers complete control over AVR and seven additional source components I High-bandwidth, HDTV-compatible component video switching I Discrete front-panel coaxial and optical digital inputs for easy connection to portable digital devices and video game consoles I Extensive bass management options, including four separate crossover groupings I On-screen menu and display system For Canadian model This class B digital apparatus complies with Canadian ICES-003. For models having a power cord with a polarized plug: CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Modèle pour les Canadien Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Sur les modèles dont la fiche est polarisée: ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

I Extensive multiroom options, including a standard Zone II remote, and assignable amplifier channels CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION: To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. INTRODUCTION 3 SAFETY INFORMATION Important Safety Information Verify Line Voltage Before Use Your AVR 335 has been designed for use with 120-volt AC current. Connection to a line voltage other than that for which it is intended can create a safety and fire hazard and may damage the unit. If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact your selling dealer before plugging the unit into a wall outlet. Do Not Use Extension Cords To avoid safety hazards, use only the power cord attached to your unit. We do not recommend that extension cords be used with this product.

As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Damaged power cords should be replaced immediately by an authorized service center with a cord meeting factory specifications.



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Handle the AC Power Cord Gently When disconnecting the power cord from an AC outlet, always pull the plug; never pull the cord. If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet. Do Not Open the Cabinet There are no user-serviceable components inside this product.

Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee. If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service center. CATV or Antenna Grounding If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode.

NOTE TO CATV SYSTEM INSTALLER: This reminder is provided to call the CATV (Cable TV) system installer's attention to article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible. Installation Location 1 To ensure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product. I Make certain that proper space is provided both above and below the unit for ventilation. If this product will be installed in a cabinet or other enclosed area, make certain that there is sufficient air movement within the cabinet. Under some circumstances a fan may be required. I Do not place the unit directly on a carpeted surface. lation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: I Reorient or relocate the receiving antenna. I Increase the separation between the equipment and receiver.

I Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. I Consult the dealer or an experienced radio/TV technician for help. I Avoid installation in extremely hot or cold locations, or in an area that is exposed to direct sunlight or heating equipment. I Avoid moist or humid locations. I Do not obstruct the ventilation slots on the top of the unit, or place objects directly over them. I Due to the weight of the AVR 335 and the heat generated by the amplifiers, there is the remote possibility that the rubber padding on the bottom of the unit's feet may leave marks on certain wood or veneer materials. Use caution when plST be pressed in to operate the unit. To turn the unit off and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel and the word "OFF" is seen at the top of the switch. NOTE: This switch is normally left in the "ON" position.

2 Power Indicator: This LED lights amber when the unit is in the Standby mode to signal that the AVR is ready to be turned on.

When the unit is in operation, the indicator is blue. 3 Standby/On Switch: When the Main Power Switch 1 is "ON," press this button to turn on the AVR 335; press it again to turn the unit off. The Power Indicator 3 turns blue when the unit is on. 4 Headphone Jack: This jack may be used to listen to the AVR 335's output through a pair of headphones. The speakers will automatically be turned off when the headphone jack is in use.

When configuring your system using EzSet+, 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 1/4" plug. 5 Tone Mode: Pressing this button enables or disables the Bass and Treble tone controls. When the button is pressed so that TONE IN appears in the Lower Display Line $\bar{\text{~}}$, the Bass and Treble $\acute{\text{U}}$ controls may be used to adjust the output signals. When the button is pressed once or twice so that the words TONE OUT appear in the Lower Display Line $\bar{\text{~}}$, the output signal will be "flat, no matter how " the actual Bass and Treble Controls $\acute{\text{U}}$ are adjusted. 6 Speaker Select Button: Press this button to begin the process of configuring the unit to match the type of speakers used in your listening room.

(See pages 2224 for more information on speaker setup and configuration.) 7 Surround Mode Group Selector: Press this button to select the top-level group of surround modes. Each press of the button will select the current or last used mode in each of the surround mode groups (e.g., Dolby, DTS, DTS Neo:6, Logic 7, DSP, Stereo). When the button is pressed so that the name of the desired surround mode group appears in the onscreen display and in the Lower Display Line $\bar{\text{~}}$, press the Surround Mode Selector 8 to cycle through the individual modes available. For example, press this button to select Dolby modes, and then press the Surround Mode Selector 8 to choose from the various mode options. FRONT-PANEL CONTROLS 5 FRONT-PANEL CONTROLS 49 47 45 43 8 Surround Mode Selector: Press this button to select from among the available surround mode options for the mode group selected. The specific modes will vary based on the number of speakers available, the mode group and if the input source is digital or analog. For example, press the Surround Mode Group Selector 7 to select a mode grouping such as Dolby or Logic 7, and then press this button to see the specific mode choices available.

For more information on mode selection, see page 28. 9 Tuning Selector: Press the left side of the button to tune lower-frequency stations and the right side of the button to tune higher-frequency stations. When the tuner is in the Manual mode, each tap will increase or decrease the frequency by one increment. When the tuner receives a strong enough signal for adequate reception, MANUAL TUNED will appear in the on-screen display and the Lower Display Line $\bar{\text{~}}$. When the tuner is in the Auto mode, press the button once, and the tuner will scan for a station with acceptable signal strength. When the next station with a strong signal is tuned the scan will stop and the onscreen display and the Lower Display Line $\bar{\text{~}}$ will indicate AUTO TUNED. When an FM Stereo station is tuned, the display will read AUTO ST TUNED. To switch back and forth between the Auto and Manual tuning modes, press the Tuning Mode Selector &.



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) </> Buttons: When configuring the AVR 335's settings, use these buttons to select from the available choices. ! AM/FM Selector: Press this button to turn the AVR on and to select the Tuner as the input source.

Press it again to switch between the AM and FM frequency bands. (See page 31 for more information on the tuner.) @ Set Button: When making choices during the setup and configuration process, press this button to enter the desired setting into the AVR 335's memory. # Digital Input Selector: Press this button to select one of the digital inputs or the analog input for any source. (See pages 2831 for more information on digital audio.

) \$ Preset Station Selector: Press this button to scroll up or down through the list of stations that have been entered into the preset memory. (See page 32 for more information on tuner presets.) % Delay Adjust Selector: Press this button to begin the steps required to enter delay settings. (See page 24 for more information on delay times.) ^ Input Source Selector: Press this button to change the input by scrolling up or down through the list of Input Indicators i.

& Tuner Mode Selector: Press this button to select Auto or Manual tuning. When the button is pressed so that AUTO appears in the Lower Display Line ~, the tuner will search for the next station with an acceptable signal when the Tuning Selector 9u is pressed. When the button is pressed so that MANUAL appears in the Lower Display Line ~, each press of the Tuning Selector 9u will increase the frequency. This button may also be used to switch between Stereo and Mono modes for FM radio reception. When weak reception is encountered, press the button so that MANUAL appears in the Lower Display Line ~ and in the on-screen display to switch to Mono reception. Press it again to switch back to Stereo mode. (See pages 3132 for more information on using the tuner.) * Optical 4 Digital Input: Connect the optical digital audio output of an audio or video product to this jack. When the input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance. (Coaxial 4 Digital Input: This jack is used for connection to the output of portable audio devices, video game consoles or other products that have a coax digital audio jack.

Ó Video 4 Video Input Jacks: These jacks may be used for temporary connection to the composite or S-video output of video games, camcorders or other portable video products. You may make a connection to either jack at any time, but not to both simultaneously. Ô Video 4 Audio Input Jacks: These audio jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. Bass Control:

Turn this control to modify the low frequency output of the left/right channels by as much as ±10dB. Ò Balance Control: Turn this control to change the relative volume for the front left/right channels. NOTE: For proper operation of the surround modes this control should be at the midpoint or "12 o'clock" position. Ó Treble Control: Turn this control to modify the high frequency output of the left/right channels by as much as ±10dB. Û Channel Adjust Selector:

Press this button to begin the process of trimming the channel output levels using an external audio source. (For more information on output level trim adjustment, see page 32.) Ü Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume.

If the AVR 335 is muted, adjusting the 48 46 42 Volume Control Û 44 will automatically release the unit from the 37 39 condition. silenced 41 35 37 41 47 51 i Input 34 36 38 current selected source will Indicators: The 40 36 40 46 50 appear as 33 of these indicators. Note that when the one 26 25 37 unit is turned on, 27 entire list of available modes will the 24 36 35 39 45 49 32 light briefly, and then revert to normal operation 44 48 31 28 23 35 34 38 with only the active mode indicator illuminated. 30 29 22 34 43 33 29 30 21 33 ^ Speaker/Channel Input Indicators: These indi 42 32 cators are 28 31 20 32 both the speaker multipurpose, indicating 31 type selected for each channel and 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 assigned that position. (See page 22 for more information on configuring speakers.) The letters inside each box displays the active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input.

For a digital source, 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 31 for more information on the Channel Indicators.) ~ Upper Display Line: Depending on the unit's status, a variety of messages will appear here. In normal operation, this line will show the current input source and which analog or digital input is in use. When the tuner is the input, this line will identify the station as AM or FM and show the frequency and preset number, if any. ~ Lower Display Line: Depending on the unit's status, a variety of messages will appear here. In normal operation, the current surround mode will show here. Surround Mode Indicators: The current selected surround mode will appear as one of these indicators. Note that when the unit is turned on, the entire list of available modes will light briefly, and then revert to normal operation with only the active mode indicator illuminated.

, 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. 6 FRONT-PANEL CONTROLS REAR-PANEL CONNECTIONS 40 41 39 38 37 36 35 34 33 32 ki g ec 31 j hf d a b ° ; TM £ ¢ § 49 48 47 45 46 44 43 42 ¶ · ; Multiroom Audio Outputs TM CD Audio Inputs £ Tape Outputs ¢ Remote IR Input Multiroom IR Input § Remote IR Output ¶ Preamp Outputs · Subwoofer Output ° Front Speaker Outputs , Surround Back/Multiroom Speaker Outputs / Surround Speaker Outputs ✕ Center Speaker Output < Component Video Monitor Outputs > Video 2 Component Video Inputs ° NOTE: To make it easier to follow the instructions that refer at www.harmanardon.com. NOTE: To assist in making the correct connections for multichannel input, output and speaker connections, all connection jacks and terminals are color-coded in conformance with the CEA standards as follows: Front Left: White Red Front Right: Center: Green ; Multiroom Audio Outputs: Connect these jacks to the optional external audio power amplifier and video distribution system that delivers the source selected for multizone distribution.



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TM CD Audio Inputs: Connect these jacks to the analog audio output of a compact disc player or changer. 35 37 39 43 49 47 45 41 37 41 47 51 34 36 38 42 48 46 44 40 36 40 46 50 33 37 45 37 26 25 41 35 47 39 43 49 35 41 45 51 32 36 24 36 37 39 47 49 34 27 38 40 48 46 44 42 31 28 34 38 44 48 36 40 46 50 33 47 23 37 26 45 35 25 43 35 49 37 39 41 fi DVD Component Video Inputs 30 29 22 34 j 6/8-Channel Direct Inputs 33 39 43 49 45 35 32 36 24 36 37 41 47 51 34 27 38 40 48 46 44 42 29 30 32 38 44 48 fl Fan Vents 2 33 31 28 21 35 k Video42 S-Video Output 34 36 40 46 50 33 47 23 37 25 35 26 39 41 49 37 45 43 28 31 30 31 20 32 33 Video43 S-Video Input 3 AC Power Cord 29 22 36 34 35 39 45 51 32 27 38 37 41 47 49 34 36 44 40 48 46 24 42 29 32 Video44 48 Output 33 Monitor ° Switched AC Accessory Outlet 31 30 21 35 34 38 42 28 23 37 36 40 46 50 33 26 25 35 37 39 41 49 47 45 43 28 31 43 47 31 33 41 43 49 . Unswitched AC Accessory Outlet 49 30 45 20 32 37 DVD Audio/Video Inputs 29 45 35 39 47 51 32 36 44 42 27 38 40 34 46 22 34 48 44 24 36 48 29 46 42 32 Video42 Audio/Video Inputs 30 31 37 23 35 34 38 44 50 l a Optical Digital Audio Output 36 40 46 48 28 25 41 33 47 21 33 35 35 39 45 37 37 26 39 43 41 28 49 49 45 20 32 47 43 31 39 45 30 31 22 36 33 41 43 49 35 29 32 46 38 40 1 b Coaxial Digital Audio Output 27 37 Video47 Audio/Video Outputs 34 38 44 42 36 40 48 44 24 34 37 41 47 51 51 34 46 36 48 29 42 32 38 42 48 31 30 34 40 44 50 28 25 41 36 46 46 33 37 21 33 2 c S-Video Monitor Output 26 39 35 36 40 Video50 Audio/Video Inputs 33 35 45 23 37 26 35 28 25 37 37 41 49 30 39 20 32 47 31 43 31 39 45 33 41 43 29 22 34 35 2 d Coaxial Digital Audio Inputs 35 39 47 49 49 32 32 38 38 36 27 27 42 41 45 51 51 37 37 Video47 Audio/Video Outputs 34 34 44 24 40 36 36 36 40 48 29 24 21 46 32 38 42 50 34 44 44 36 40 46 28 31 31 30 23 33 34 40 46 50 48 e DVD S-Video Input 3 28 26 41 35 36 38 Video48 Audio/Video Inputs 33 33 39 35 26 35 28 45 25 37 37 31 43 49 30 23 20 32 47 25 37 31 39 45 33 43 43 29 34 30 32 22 22 36 33 39 Tape 49 49 27 24 34 29 35 35 45 Inputs 32 36 38 40 f Video 1 S-Video Input 27 44 42 37 41 47 51 34 29 24 36 48 46 34 38 44 29 30 28 21 35 32 32 42 42 48 31 31 30 23 33 34 38 AM Antenna Terminals 28 35 36 40 44 48 46 50 33 28 21 33 g Optical Digital Audio Inputs 26 25 37 35 30 23 20 32 31 31 41 33 43 28 37 39 22 29 34 31 39 43 49 30 31 20 32 34 33 41 45 51 29 35 32 36 22 36 27 38 37 32 FM Antenna Jack 47 42 34 29 24 40 h Video 1 S-Video Output 21 33 30 29 32 38 42 48 31 30 21 33 34 40 44 50 28 35 36 46 33 28 23 37 i Video 2 S-Video Input 31 32 28 26 25 31 31 45 30 29 20 20 33 39 43 49 34 35 32 31 22 32 27 24 36 29 32 42 48 31 30 21 33 34 44 28 23 from the 38 to this illustration, a larger copy may be downloaded 35 31 Product Support section for this product 28 30 31 22 32 33 43 29 20 34 29 30 21 33 32 42 28 31 20 32 31 / < fi , & > fl Surround Left: Surround Right: Surround Back Left: Surround Back Right: Subwoofer: Coaxial Digital Audio: Composite Video: Blue Gray Brown Tan Purple Orange Yellow Component Video "Y": Green Component Video "Pr": Red Component Video "Pb": Blue £ Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder. ¢ Remote IR Input: If the AVR 335'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 this jack.

Multiroom IR Input: Connect the output of an IR sensor in a remote room to this jack to operate the AVR 335's multiroom control system. § Remote IR Output: This 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. REAR-PANEL CONNECTIONS 7 REAR-PANEL CONNECTIONS ¶ Preamp Outputs: Connect these jacks to an optional, external power amplifier for applications where higher power is desired. · Subwoofer Output: Connect this jack to the linelevel input of a powered subwoofer.

If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. ° Front Speaker Outputs: Connect these outputs to the matching + or - terminals on your left and right speakers. When making speaker connections always make certain to maintain correct polarity by connecting the color-coded (white for front left and red for front right) (+) terminals on the AVR 335 to the red (+) terminals on the speakers and the black (-) terminals on the AVR 335 to the black (-) terminals on the speakers. See page 14 for more information on speaker polarity. , 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. / Surround Speaker Outputs: Connect these outputs to the matching + and - terminals on your surround channel speakers. In conformance with the 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 14 for more information on speaker polarity.

) ¢ Center Speaker Output: Connect these outputs to the matching + and - terminals on your center channel speaker. In conformance with the CEA colorcode 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 (-) terminal on your speaker. (See page 14 for more information on speaker polarity.) < Component Video Monitor Outputs: Connect these outputs to the component video inputs of a video projector or monitor.



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When a source connected to one of the Component Video Inputs is selected, the signal will be sent to these jacks. > Video 2 Component Video Inputs: Connect the Y/Pr/Pb component video outputs of an HDTV set-top converter, satellite receiver or other video source device with component video outputs to these jacks. fi DVD Component Video Inputs: Connect the Y/Pr/Pb component video outputs of a DVD player to these jacks. fl Fan Vents: These ventilation holes are the output of the AVR 335's airflow system. To ensure proper operation of the unit and to avoid possible damage to delicate surfaces, make certain that these holes are not blocked and that there is at least three inches of open space between the vent holes and any wooden or fabric surface. It is normal for the fan to remain off at most normal volume levels. An automatic temperature sensor turns the fan on only when it is needed. AC Power Cord: Connect the AC power cord to a non-switched AC wall outlet. ° Switched AC Accessory Outlet: These outlets may be used to power any device you wish to have turned on when the AVR 335 is turned on. · Unswitched AC Accessory Outlet: 49 47 45 This outlet 48 46 44 may be used to power any AC device. The power will 35 37 39 remain on at this outlet, regardless of whether 36 38 the 34 AVR 335 is on or off. 33 26 25 NOTE: The total power consumption of all devices 23 31 28 connected to the accessory outlets should not 29 22 30 exceed 49 45 29 47 21 100 watts. 30 32 27 24 43 42 41 40 37 36 35 34 43 33 42 32 41 40 player or CD player to these jacks. The signal may be a Dolby Digital signal, DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD 49 47 45 player to these jacks.

43 48 46 44 42 e DVD S-Video Input: Connect the S-video output 35 37 39 41 of a DVD player or other video source to this jack. 37 41 47 51 34 36 38 40 the product 49 f Video 1 S-Video Input: If 35 39 45 connected to 32 27 24 36 31 28 23 35 38 44 48 the Video 1 Audio Inputs 34 has S-video capability, 43 connect 30 jack 22 the PLAY/OUT S-video jack on this 29 to 34 33 29 42 that unit 28 30 21 33 certain that the S-Video and then make 32 31 31 32 c Monitor Output 20 is connected as described above. g Optical Digital Audio Inputs: Connect the optical digital output from a DVD player, HDTV receiver, LD player these player or CD 49 47 to 45 43 jacks. The signal may be a Dolby Digital 48 46 a DTS 42 or a standard PCM signal, 44 signal 35 digital source. 37 39 41 h Video 1 33 26 25 37 If the product connected S-Video Output: 36 40 46 50 39 45 49 to the Video 32 Audio 24 36 35 has S-video 1 27 Outputs capability, connect this 23 35 the REC/IN 44 48 jack 49 31 45 43 47 28 jack to 34 38 S-video 43 48 46 29 42 on that unit. 30 44 22 34 33 28 31 32 i Video 2 S-Video Input: If the 41 47 51 product connected to 37 31 34 36 38 20 40 40 46 50 33 2 26 25 Inputs 36 has S-video capability, the Video Audio 37 connect 32 27 24 the PLAY/OUT S-video jack on this jack to 36 35 39 45 49 that unit 31 28 23 35 certain that the S-Video and then make 34 38 44 48 30 29 22 34 33 43 Monitor 29 Output c is connected as 42 described above. 32 30 21 33 31 31 20 32 j 8-Channel Direct Inputs: These jacks are used for connection to source devices such as DVD-Audio 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 49 audio signals. 47 45 43 28 35 33 26 25 37 36 40 46 50 34 36 38 40 37 41 47 51 29 30 21 33 37 39 41 32 42 k 49 472 35 37 39 41 If the product connected S-Video 36 Video 46 45 43 Output: 40 50 41 47 51 to the Video 34 Audio 38 40 37 has S-video 35 48 46 44 36 Outputs 39 45 2 42 49 34 35 37 connect this jack to 36 40 S-video 38 48 capability, 44 33 26 25 37 the REC/IN 46 50 jack 39 41 35 39 43 33 34 36 38 40 37 41 on that unit.

32 27 24 36 47 51 45 49 51 37 41 47 48 46 44 42 48 46 44 28 31 20 35 37 39 a Optical Digital Audio Output: Connect this jack to the optical digital input connector on a 34 36 38 CD-R/RW, 33 26 25 37 MiniDisc or other digital recorder. 32 27 24 36 31 28 23 49 47 45 43 b Coaxial Digital Audio Output: Connect this jack 35 30 29 22 34 48 46 or to the coaxial digital input of a CD-R/RW, MiniDisc 44 42 29 30 21 35 37 39 33 41 other digital recorder. 28 31 20 32 34 36 38 40 33 26 25 c S-Video Monitor Output: When your television or 37 32 27 24 other video display is equipped with an S-video input 36 31 28 23 35 and you are using at least one source with S-video 22 30 29 34 capability, connect this jack to the S-video input on 21 33 29 30 the 28 31 20 32 display. 34 38 42 31 28 23 35 32 33 36 40 46 50 44 48 26 25 37 29 31 32 273 30 36 Input: If the 45 49 43 35 39 product connected to Video S-Video 22 34 33 24 29 32 Video 23 30 21 38 44 48 42 Audio 34 the 31 283 28 35 Inputs 33 has S-video capability, 37 41 47 51 31 20 32 31 30 29 22 34 33 43 S-video jack on connect this jack to the PLAY/OUT 36 40 46 50 29 30 21 33 32 42 that 2839 and then make certain that the S-Video 35 unit 45 49 31 31 20 32 34 38 44 48 Monitor Output c is connected as described above. 43 33 32 Video 42 Monitor Output: Connect this jack to the 31 composite video input of a TV monitor or video projec 37 41 47 51 tor to 40 46 50 36 view the on-screen menus and the output of a 35 39 45 source. standard video 49 the composite 32 video and 42 analog audio output jacks of a DVD L/R 31 player or other video source to these jacks. 34 38 44 48 33 DVD Audio/Video Inputs: Connect 43 d Coaxial Digital Audio Inputs: Connect the coax digital output from a DVD player, HDTV receiver, LD 8 REAR-PANEL CONNECTIONS 45 44 39 38 25 45 24 23 44 22 39 21 38 20 25 24 23 45 22 44 21 39 20 38 25 45 24 44 23 22 39 43 21 38 42 20 25 41 24 40 23 37 22 36 43 21 35 42 20 34 41 33 40 32 43 37 42 36 41 35 34 40 33 37 32 36 35 34 43 33 42 32 41 40 37 36 35 34 33 32 43 42 41 40 37 36 43 35 42 34 41 33 40 32 37 36 35 43 34 42 33 41 32 40 37 43 36 42 35 34 41 33 40 32 37 36 37 35 36 34 35 33 34 32 33 37 36 35 34 33 41 47 40 46 39 45 38 1 Video 44 43 51 50 49 48 Audio/Video REAR-PANEL CONNECTIONS Inputs: Connect the composite video and L/R analog audio PLAY/OUT jacks 32 41 47 51 37 or of a VCR 42 other video source to these jacks. 31 40 46 50 36 35 Video 45 Audio/Video Outputs: Connect the 39 1 49 34 38 44 48 composite video and L/R analog audio REC/IN jacks 43 33 of a VCR or other video recording device such as a 42 32 DVD recorder or PVR to these jacks. 31 37 41 47 51 36 Video 46 Audio/Video Inputs: Connect the com 40 2 50 35 39 45 49 posite video and L/R analog audio PLAY/OUT jacks of 34 38 44 48 a VCR or 43 video source to these jacks. other 33 32 41 47 51 37 Video 42 Audio/Video Outputs: Connect the 2 31 36 40 46 50 composite video and L/R analog audio REC/IN jacks 35 39 45 49 41 47 51 of a VCR 44 other video recording device such as a or 34 38 40 50 48 DVD 46 43 or PVR to these jacks.



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33 recorder 32 37 31 40 46 50 36 35 39 Tape 49 45 Inputs: Connect these jacks to the PLAY/OUT 34 38 44 48 jacks of an audio recorder. 33 43 37 41 47 51 32 40 AM Antenna Terminals: Connect the AM loop 42 50 36 46 31 39 45 49 35 antenna supplied with the receiver to these terminals. 34 38 44 48 If an external AM antenna is used, make connections 33 43 32 31 37 36 35 34 33 32 31 Audio/Video Inputs: Connect the composite video and L/R analog audio PLAY/OUT jacks of 42 a41 47 or 51 video source to these jacks. VCR other 39 45 49 32 44 42 38 Video48 3 31 43 to the AM and GND terminals in accordance with 42 the instructions supplied with the antenna. 41 FM Antenna Jack: Connect the supplied indoor 47 51 40 46 50 (or an optional external) FM antenna to this terminal.

39 45 49 38 44 VIDEO CONNECTIONS: When connecting a NOTE ON48 43 source device, such as a VCR, DVD player, cable or satel42 lite set-top box or video game, to the AVR, use either a composite or S-video connection for each input, but not both. REAR-PANEL CONNECTIONS 9 MAIN REMOTE CONTROL FUNCTIONS a Power Off Button b IR Transmitter Window c Program Indicator d Power On Button e Input Selectors f AVR Selector g AM/FM Tuner Select h Dim Button i Test Button j Sleep Button k DSP Surround Mode Selector l Night Mode m Channel Select Button n / / Buttons o < / > Buttons p Set Button q Digital Select r Numeric Keys s Tuner Mode t Direct Button u Tuning Up/Down v OSD Button w Dolby Mode Selector x DTS Digital Mode Selector y Logic 7 Mode Select Button z Skip Up/Down Buttons `Transport Controls 28 G Stereo Mode Select Button 29 G DTS Neo:6 Mode Select 30 G Macro Buttons 31 G Disc Skip Button 32 G Preset Up/Down 33 G Clear Button 34 G Memory Button 35 G Delay/Prev. Ch. 36 G Speaker Select 37 G Multiroom 38 G Volume Up/Down 39 G TV/Video Selector 40 G 6-Channel/8-Channel Direct Input 41 G Mute 43 NOTE: · The function names shown here are each button's feature when used with the AVR 335. Most buttons have additional functions when used with other devices.

See pages 4142 for a list of these functions. · To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com. c ba POWER d e f g h i j k l m n o q n r p ON OFF MUTE 41 AVR VCR VID1 DVD TV VID2 CD CBL/SAT VID3 6/8 CH TAPE VID4 40 DIM AM/FM 39 SLEEP CH. SURR. TEST NIGHT T/V M-ROOM VOL. 38 37 36 o 35 GU ID E ME N CH . SP K R U SET PR EV 1 5 2 6 9 DIRECT 3 7 0 CLEAR 4 8 MEM s t u v . C H T A L L DE AY .

I DIG EX IT TUN-M 34 33 32 31 30 29 TUNING OSD D.SKIP PRESET M1 M2 M3 DTS SUR M4 DTS NEO:6 w y DOLBY SUR x z DOWN LOGIC 7 STEREO 28 SKIP UP ` 10 MAIN REMOTE CONTROL FUNCTIONS MAIN REMOTE CONTROL FUNCTIONS IMPORTANT NOTE: The AVR 335's remote may be programmed to control up to eight devices, including the AVR 335. Before using the remote, it is important to remember to press the Input Selector Button e that corresponds to the unit you wish to operate. In addition, the AVR 335's remote is shipped from the factory to operate the AVR 335 and most Harman Kardon CD or DVD players and cassette decks. The remote is also capable of operating a wide variety of other products using the control codes that are part of the remote. Before using the remote with other products, follow the instructions on pages 3739 to program the proper codes for the products in your system. It is also important to remember that many of the buttons on the remote take on different functions, depending on the product selected using the Device Control Selectors. The descriptions shown here primarily detail the functions of the remote when it is used to operate the AVR 335. (See page 38 for information about alternate functions for the remote's buttons.) a Power Off Button: Press this button to place the AVR 335 or a selected device in the Standby mode.

Note that this will turn off the main room functions, but if the Multiroom system is activated, it will continue to function. b IR Transmitter Window: Point this window towards the AVR 335 when pressing buttons on the remote to make certain that infrared commands are properly received. c Program Indicator: This three-color indicator is used to guide you through the process of programming the remote. (See page 38 for information on programming the remote.) d Power On Button: Press this button to turn on the power to a device selected by pressing one of the Input Selectors e.

e Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR 335 is not turned on, this will power up the unit. Next, it will select the source shown on the button as the input to the AVR 335. Finally, it will switch the remote control so that it controls the device selected.

After pressing one of these buttons you must press the AVR Selector Button f again to operate the AVR 335's functions with the remote.

f AVR Selector: Pressing this button will switch the remote so that it will operate the AVR 335's functions. If the AVR 335 is in the Standby mode, it will also turn the AVR 335 on. g AM/FM Tuner Select: Press this button to select the AVR 335's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands. h Dim Button: Press this button to activate the Dimmer function, which reduces the brightness of the front panel display, or turns it off entirely. The first press of the button shows the default state, which is full brightness by indicating DIMMER FULL in the Lower Display Line ` . Press the button again within five seconds to reduce the brightness by 50%, as indicated by DIMMER HALF showing in the Lower Display Line ` . Press the button again within five seconds and the main display will go completely dark. Note that this setting is temporary, in that regardless of any changes, the display will always return to full brightness when the AVR is turned on. In addition, the Power Indicator 2 will always remain at full brightness regardless of the setting.

This is to remind you that the AVR is still turned on. i Test Button: Press this button to begin the sequence used to manually calibrate the AVR 335's output levels. (See pages 25 and 32 for more information on calibrating the AVR 335.) j Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 335 will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF an external source. Once this button is pressed, use the / / Buttons n to select the channel being adjusted, then press the Set Button p, followed by the / / Buttons n again, to change the level setting.



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(See pages 25 and 32 for more information.) **n** //⌘ Buttons: These multipurpose buttons are used to change or scroll through items in the onscreen menus, make configuration settings such as digital inputs or delay timing, or to select surround modes. When changing a setting, first press the button for the function or setting to be changed (e.

g., press the DSP Surround Mode Selector **k** to select a sound field mode or the Digital Select Button **q** to change a digital input) and then press one of these buttons to scroll through the list of options or to increase or decrease a setting. The sections in this manual describing the individual features and functions contain specific information on using these buttons for each application. **o** </> Buttons: These buttons are used to change the menu selection or setting during some of the setup procedures for the AVR 335. **p** Set Button: This button is used to enter settings into the AVR 335's memory.

It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. **q** Digital Select: Press this button to assign one of the digital inputs ***dg** to a source. (See page 28 for more information on using digital inputs.) **r** Numeric Keys: These buttons serve as a 10button numeric keypad to enter tuner preset positions. They are also used to select channel numbers when TV, Cable or SAT has been selected on the remote, or to select track numbers on a CD, DVD or LD player, depending on how the remote has been programmed.

s Tuner Mode: Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that MANUAL appears in the Lower Display Line $\bar{\text{~}}$, pressing the Tuning Buttons **u9** will move the frequency up or down in single-step increments. When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception. (See page 31 for more information.) **t** Direct Button: Press this button when the tuner is in use to start the sequence for direct entry of a station's frequency. After pressing the button, simply press the proper Numeric Keys **r** to select a station. (See page 31 for more information on the tuner.) **u** Tuning Up/Down: When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the Tuner Mode Button **s** & has This button is also used to change channels on your TV when the TV is selected. When the AVR 335 remote is being programmed with the codes to operate another device, this button is also used in the "Auto Search" process.

(See page 37 for more information on programming the remote.) **k** DSP Surround Mode Selector: Press this button to cycle through the DSP, VMAx and Stereo surround modes such as Hall, Theater, VMAx Near and Far, and Surround Off. This button is also used to tune channels when the TV is selected using the device Input Selector **e**. When the AVR 335 remote is being programmed with the codes of another device, this button is also used in the "Auto Search" process. (See page 37 for more information on programming the remote.) **l** Night Mode: Press this button to activate the Night mode. This mode is available in specially encoded digital sources, and it preserves dialogue (center channel) intelligibility at low volume levels. **m** Channel Select Button: This button is used to start the process of setting the AVR 335's output levels to MAIN REMOTE CONTROL FUNCTIONS 11 MAIN REMOTE CONTROL FUNCTIONS been pressed so that AUTO appears in the onscreen menu and Lower Display Line $\bar{\text{~}}$, pressing and holding either of the buttons for 3 seconds will cause the tuner to seek the next station with acceptable signal strength for quality reception. When MANUAL appears in the Lower Display Line $\bar{\text{~}}$, pressing these buttons will tune stations in single-step increments. (See page 31 for more information.

) **v** OSD Button: Press this button to activate the On-Screen Display (OSD) system used to set up or adjust the AVR 335's parameters. **w** Dolby Mode Selector: This button is used to select from among the available Dolby Surround processing modes. Each press of this button will select one of the Dolby Pro Logic II modes or Dolby 3 Stereo. When a Dolby Digital-encoded source is in use, the Dolby Digital mode may also be selected. (See page 29 for the available Dolby surround mode options.

) **x** DTS Digital Mode Selector: When a DTS encoded digital source is selected, each press of this button will scroll through the available DTS modes. The specific choice of modes will vary according to whether or not the source material contains DTS-ES 6.1 Discrete encoding. When a DTS source is not in use, this button has no function. (See page 29 for the available DTS Digital options.

) **y** Logic 7 Mode Select Button: Press this button to select from among the available Logic 7 surround modes. (See page 29 for the available Logic 7 options.) **z** Skip Up/Down Buttons: These buttons do not have a direct function with the AVR 335, but when used with a compatibly programmed CD or DVD changer they will change to the previous disc in the changer or carousel. $\bar{\text{~}}$ Transport Controls: These buttons do not have any functions for the AVR 335, but they may be programmed for the forward/reverse play operation of a wide variety of CD or DVD players, and audio or video cassette recorders. When the remote is used to control the AVR, the VID2/TV device or the VID3/CBL/SAT device, these buttons are programmed to operate the DVD player's transport controls.

However, you may use the Transport Control PunchThrough feature described on page 39 to program these button to operate another device's transport controls when the AVR, VID2 or VID3 device has been selected. **R** Stereo Mode Select Button: Press this button to select a stereo listening mode. When the button is pressed so that DSP SURR OFF appears in the Lower Display Line $\bar{\text{~}}$, the AVR will operate in a bypass mode with true, fully analog, two-channel left/right stereo mode with no surround processing or bass management, as opposed to other modes where digital processing is used. When the button is pressed so that SURROUND OFF appears in the Lower Display Line $\bar{\text{~}}$, you may enjoy a two-channel presentation of the sound along with the benefits of bass management. Depending on whether your system is configured for 5.

1 or 6.1/7.1 channels, the next press of the button will cause either 5 CH STEREO or 7 CH STEREO to appear, and the stereo signal will be routed to all five (or seven) speakers. (See page 29 for more information on stereo playback modes.) **S** DTS Neo:6 Mode Select: Press this button to select a DTS Neo:6 mode.

These modes take a twochannel stereo- or matrix surround-encoded source and create a full five-, six- or seven-channel sound field. (See page 29 for the available DTS Neo:6 options.) **T** Macro Buttons: Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote.



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(See page 37 for more information on storing and recalling macros.) **U Disc Skip Button:** This button has no direct function for the AVR 335 but is most often used to change to the next disc in a CD or DVD player when the remote is programmed for that type of device.

When the remote is used to control the AVR, the VID2/TV device or the VID3/CBL/SAT device, these buttons are programmed to operate the DVD player's transport controls. However, you may use the Transport Control Punch-Through feature described on page 39 to program these buttons to operate another device's transport controls when the AVR, VID2 or VID3 device has been selected. (See page 38 for more information on using the remote with products other than the AVR 335.) **V Preset Up/Down:** When the tuner is in use, press these buttons to scroll through the stations programmed into the AVR 335's memory.

When some source devices, such as CD players, VCRs and cassette decks, are selected using the device Input Selectors *e*, these buttons may function as Chapter Step or Track Advance.

W Clear Button: Press this button to clear incorrect entries when using the remote to directly enter a radio station's frequency. **X Memory Button:** Press this button to enter a radio station into the AVR 335's preset memory. First, tune the desired station, and then press this button. Two underline indicators will flash at the right side of the Upper Display Line ~, and within 5 seconds press the Numeric Keys *r* for the preset number between 01 and 30 that you wish to assign to the station. (See page 32 for more information.)

Y Delay/Prev Ch.: Press this button to begin the process for setting the delay times used by the AVR 335 when processing surround sound. After pressing this button, the delay times are entered by pressing the Set Button *p* and then using the /□ Buttons *n* to change the setting. Press the Set Button *p* again to complete the process. (See page 24 for more information.) **Z Speaker Select:** Press this button to begin the process of configuring the AVR 335's bass management system for use with the type of speakers used in your system. Once the button has been pressed, use the /□ Buttons *n* to select the channel you wish to set up. Press the Set Button *p* and then select another channel to configure. When all adjustments have been completed, press the Set Button *p* twice to exit the settings and return to normal operation (see page 16). **a Multiroom:** Press this button to activate the multiroom system or to begin the process of changing the input or volume level for the second zone.

When used with the DVD player, it controls the Subtitle On/Off function (see page 35). **b Volume Up/Down:** Press these buttons to raise or lower the system volume. **c TV/Video Selector:** This button does not have a direct function on the AVR 335, but when used with a compatibly programmed VCR, DVD or satellite receiver that has a "TV/Video" function, pressing this button will switch between the output of the player or receiver and the external video input to that player. Consult the owner's manual for your specific player or receiver for the details of how it implements this function. **d 6-Channel/8-Channel Direct Input:** Press this button to select the device connected to the 8-Channel Direct Inputs *j* as the audio source. (See page 27 for more information.) When you wish to use the 6-Channel/8-Channel Direct Input *j* in conjunction with a video source, you must first select the video source by pressing one of the Input Selectors *e*, then press this button to choose the device connected to the 6-Channel/8-Channel Direct Input *j* as the audio source. **e Mute:** Press this button to momentarily silence the AVR 335 or TV set being controlled, depending on which device has been selected. When the AVR 335 remote is being programmed to operate another device, this button is pressed with the Input Selector Button *e* to begin the programming process. (See page 37 for more information on programming the remote.)

) 12 MAIN REMOTE CONTROL FUNCTIONS ZONE II REMOTE CONTROL FUNCTIONS **â Power Off:** When used in the room where the AVR 335 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 Multiroom IR Input jack, this button turns the Multiroom system on and off. **AVR Selector:** Press this button to turn on the AVR 335. The input in use when the unit was last on will be selected. **ç AM/FM Tuner Select Button:** Press this button to select the Tuner as the input to the Multiroom system.

Press it again to change between the AM and FM bands. **J POWER A OFF AVR VID1 MUTE K VID2 B AM/FM / VID3 VID4 © Preset Up/Down Track Skip Buttons:** When the AVR 335's tuner is selected as the input source, these buttons will move up or down through the list of stations that have been stored in the preset memory. When a CD or DVD changer or player is selected, these buttons activate the Forward or Reverse Track or Chapter Skip functions. **Disc Skip Buttons:** Press these buttons to change discs on compatible Harman Kardon CD or DVD changers or players. **Volume Up/Down Buttons:** When used in the room where the AVR 335 is located, press this button to raise or lower the volume in that room.

When used in a remote room with a sensor that is connected to the Multiroom IR Input jack, this button will raise or lower the volume in the remote room. **Play Forward/Reverse/Stop Buttons:** Press these buttons to control compatible Harman Kardon CD, DVD or cassette players. **Mute Button:** When used in the room where the AVR 335 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 Multiroom IR Input jack, this button will temporarily silence the feed to the remote room only. Press the button again to return to the previous volume level. **C**

D E F G H DISC SKIP DVD CD TAPE DN TUNING UP DN PRESET UP DISC SKIP I VOLUME Input Selectors: When the AVR 335 is off, press one of these buttons to select a specific input and turn the unit on. When the unit is already in use, pressing one of these buttons will change the input. **Tuning Up/Down Fast Play Buttons:** When this remote is used in the same room as the AVR 335, these buttons may be used to change the frequency of the tuner. These buttons may also control the Fast Play or Fast Reverse functions of compatible Harman Kardon CD, DVD or cassette decks in the same room, or from a remote room when an IR link is connected to the AVR 335. **Record/Pause Button:** Press this button to activate the Record or Pause function on compatible Harman Kardon CD, DVD or cassette deck products.

â ç © Power Off AVR Selector AM/FM Tuner Select Button Input Selectors Tuning Up/Down Fast Play Buttons Record/Pause Button Preset Up/Down Track Skip Buttons Disc Skip Buttons Volume Up/Down Buttons Play Forward/Reverse/Stop Buttons Mute Button NOTES: · The Zone II remote may be used in either the same room where the AVR 335 is located, or it may be used in a separate room with an optional infrared sensor that is connected to the AVR 335's Multiroom IR Input jack.



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When it is used in the same room as the AVR 335, it will control the functions of the AVR 335 or any compatible Harman Kardon products in that room. When it is used in a separate room via a sensor connected to the Multiroom IR Input jack, the buttons for Power, Input Source, Volume and Mute will control the source and volume for the second zone, as connected to the Multiroom Audio Output jacks. (See page 35 for complete information on using the Multiroom system.) · To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com. **ZONE II REMOTE CONTROL FUNCTIONS 13 INSTALLATION AND CONNECTIONS System Installation** After unpacking the unit, locating it in a place with adequate ventilation 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. **IMPORTANT NOTE:** For your personal safety and to avoid possible damage to your equipment and speakers, it is always a good practice to turn off and unplug the AVR and ALL source equipment from the AC output before making any audio or video system connections. **Audio Equipment Connections** We recommend that you use high-quality interconnect cables when making connections to source equipment and recorders to preserve the integrity of the signals.

1. Connect the analog output of a CD player to the CD Audio Inputs TM. NOTE: When the CD player has both fixed and variable audio outputs, it is best to use the fixed output 49 47 45 43 unless you find that the input to the receiver is so low 48 46 44 42 that the sound is noisy, or so high that it is distorted. 35 34 33 32 31 30 29 28 37 39 41 300-ohm-to-75-ohm adapter to make the connection. 7.

Connect the front, center, surround and surround back speaker outputs A, B to the respective speakers. To ensure 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 multistrand copper with a gauge of 14 or smaller.

Remember that in specifying cable, the lower the number, the thicker the cable. Cable with a gauge of 16 may be used for short runs of less than 10 feet. We do not recommend that you use cables with an AWG equivalent of 18 or higher, due to the power loss and degradation in performance that will occur. 8. Connections to a subwoofer are normally made via a line-level audio connection from the Subwoofer Output · 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. 9. If an external multichannel audio source with 5.1 or 7.

1-channel outputs such as an external digital processor/decoder, DVD-Audio or SACD player is used, connect the outputs of that device to the 8-Channel Direct Inputs j. 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 49 47 45 43 signal quality. 48 46 44 42 35 49 47 45 43 37 39 41 2. Connect 40 analog Play/Out jacks of a cassette 36 38 the 37 41 47 51 deck, 37 36 40 audio recorder to the 26 25MD, CD-R or other 46 50 45 49 Tape 36 35 27 24 Input Jacks 39 . Connect the analog 28 23 35 Record/In jacks 34 the recorder to the Tape on 38 44 48 43 29 22 Jacks 33 on the AVR 335. Output 34 £ 3. Connect 32 output of any digital sources such as 31 20 the 31 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 Audio Inputs dg*(. 4. Connect the coaxial or optical Digital Audio Outputs ab on the rear panel of the AVR 335 to the matching digital input connections on a CD-R or MiniDisc recorder.

49 47 45 43 30 21 33 32 42 5. Assemble the 44 Loop Antenna supplied with the 48 46 AM 42 unit 35 that the tabs at the bottom of the antenna so 37 39 41 loop snap into the 40 in the 41 47 Connect it to 34 36 38 holes 37 base. 51 the 33 Antenna Terminals 40 . 46 50 AM 26 25 37 36 32 27 31 28 30 29 29 30 28 31 47 45 46 44 24 23 22 21 20 43 42 36 35 34 33 32 35 39 45 49 34 38 44 48 43 33 32 31 42 49 48 6. Connect the 41 35 37 39 supplied FM antenna to the FM 47 51 37 34(75-ohm) Connection 41 .

The FM antenna may 36 38 40 33 be 26 external roof 36 40 an inside powered or an 25 37 antenna, 46 50 35 39 45 from a cable TV 32 wire-lead antenna or a connection 49 27 24 36 31 system. 23 the antenna or 38 44 48 uses 300 34 connection 28 If 35 30 29 22 34 43 33 you must use an optional ohm twin-lead cable, 29 28 30 21 33 31 20 32 32 31 42 1. Connect a VCR's, 46 44 video recorder's 51 personal (PVR) 34 48 38 40 42 37 41 47 36 or other video 26 37 39 41 36 40 46 Play/Out source's audio and video 50 33 35 25 37 Video 2 37 41 47 and jacks to the Video 36 or 36 40 35 Audio/Video 51 39 45 49 32 34 24 38 27 1 49 47 45 43 31 33 Jacks fi 44 38 40 46 rear S-Video Input 28 26 25 37 34 36 on the 48 50 23 35 48 46 44 42 30 32 22 34 33 35 39 45 49 43 49 panel. The Audio and Video 36 47 45 43 29 27 24 Record/In jacks on the 35 37 39 41 29 30 28 23 35 42 21 33 Cables that are run inside walls should have the appro- 34 48 VCR should 42 31 connected to 32 34 38 1 44 48 Video or 37 36 46 44 28 be 38 40 30 41 47 51 the 33 43 31 29 32 45 20 49 piate markings to indicate listing with UL, CSA or other 33 35 Video 39 Audio/ Video 22 47 34 31 43 Output and S-Video 37 2 41 36 40 46 50 26 25 37 29 30 21 33 45 43 42 49 44 42 48 41 46 47 51 32 39 45 49 32 34 Jacks 38 40 35 37 on the AVR 335. Although appropriate testing agency standards.

Questions about 27 36 hk 28 31 20 47 24 36 46 31 35 48 32 44 42 31 33 any 23 25 device may 40 37 46 39 50 41 to these 38 44 48 28 26 35 37 34 36 be connected running cables inside walls should be referred to your video 35 34 43 37 39 35 39 36 45 38 49 40 41 37 41 47 51 30 32 27 24 36 33 29 22 we recommending connecting your video installer or a licensed electrician who is familiar with jacks, 34 40 41 50 51 38 33 34 44 25 48 29 31 28 23 35 32 34 38 26 36 47 37 40 36 37 46 47 42 43 30 21 33 the NEC and/or the applicable local building codes in the Video 33 49 24 36 45 and 36 45 49 39 32 Audio/Video 28 30 recorder to 34 31 33 1 27 26 25 37 35 S- 40 46 50 43 31 29 22 20 32 44 your area.



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