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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 430. You'll find the answers to all your questions on the HARMAN KARDON AVR 430 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

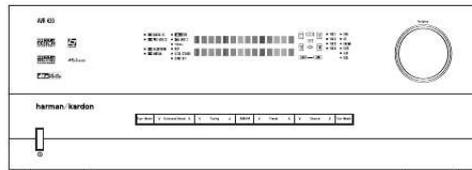
**User manual HARMAN KARDON AVR 430**  
**User guide HARMAN KARDON AVR 430**  
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**harman/kardon®**  
Power for the Digital Revolution®

AVR 430

AUDIO/VIDEO RECEIVER  
OWNER'S MANUAL  
(Software Version 1.1)



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**Manual abstract:**

@@@The AVR 430 has a wide range of features and options that accommodate virtually any combination of speakers, room size and program sources. It is as easy to operate as it is to set up, but in order to take maximum advantage of the many advanced technologies within your new AVR, it is strongly recommended that you take a few minutes to read this owner's manual. If you have any questions about this product, its installation or its operation, we recommend that you contact your dealer or installer, as they are your best source of local information. You may also access a wealth of information and assistance by visiting our Web site at [www.harmankardon.com](http://www.harmankardon.com). @@@@Dolby Virtual Speaker and Harman International's proprietary VMAx® are both 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. Two-channel listening with analog sources is available with full bass management or in a traditional "bypass" mode that creates a straight signal path from the gain stage to the volume control. Along with the many listening options, the AVR 430 offers numerous settings that let you custom tailor the system. A Quadruple Crossover bass management system configures each speaker group for a different crossover setting, while the assignable wide bandwidth component video inputs may be linked to any video source.

To further enhance the viewing experience with digital video sources or advanced digital video displays, the AVR 430's A/V Sync Delay feature allows you to compensate for the loss of lip sync common in many processing systems by delaying the audio signal independently for each input. An advanced version of Harman Kardon's patented EzSet remote completes the package, making it easier than ever to set system output levels and to program the remote to operate virtually any program source. The AVR 430's multizone options and a standard Zone II remote control make it possible to listen to a separate source in one room while the main home theater uses a different source. Using the assignable rear surround channel amplifiers, you may create a basic remote listening zone without any additional equipment. The unit's Multiroom outputs may also be used to feed an optional, external power amplifier and volume control. For one-wire multiroom connectivity, the AVR 430 is A-BUS Ready,® requiring only a single Category 5/5e cable and an optional remote module to power remote speakers while controlling volume and enabling full control over the program source and compatible IR-controlled devices. The AVR 430's seven-channel amplifier is our timehonored high-current, ultrawide bandwidth design with the power to reproduce the loudest crescendos or cinema sound effects while remaining virtually free from distortion or system noise. Combining state-of-the-art circuitry, digital technology and proven performance with an elegant design that is compatible with the latest source components and video displays, the AVR 430 represents the culmination of Harman Kardon's fifty-year history of delivering the finest sonic performance. 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 All popular digital and matrix surround modes, including Dolby\* Digital, Dolby Digital EX, Dolby Pro Logic\* IIx, DTS,® DTS-ES® Discrete and Matrix, DTS Neo:6® and DTS 96/24 I Seven channels of high-current, ultrawide bandwidth amplification with the surround back channels assignable to either main room or remote room use I Harman Kardon's exclusive Logic 7® processing, along with a choice of either Dolby Virtual Speaker or VMAx® processing for use when only two speakers are available I Dolby Headphone to create spacious, open sound fields when using headphones I High-bandwidth, HDTV-compatible component video inputs may be assigned to any video input I Full bass management, including Quadruple Crossover and individual settings for each input I A/V Sync delay adjustable for each input delivers perfect lip sync with digital programs or video displays I Front-panel digital audio and analog audio/video jacks may be used as either inputs or outputs for connection to portable products or video game consoles I Extensive Multiroom options, including a standard Zone II remote, assignable rear channel amplifier channels and A-BUS Ready® capability for listening to a separate source in a remote zone I Easy-to-program remote with twoline LCD display automatically sets output levels for optimal performance TM INTRODUCTION 3 SAFETY INFORMATION Important Safety Information Verify Line Voltage Before Use Your AVR 430 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. 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.



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**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 I 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. 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 430 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 placing the unit on soft woods or other materials that may be damaged by heat or heavy objects.

Cleaning When the unit gets dirty, wipe it with a clean, soft, dry cloth.

If necessary, after unplugging the unit from AC power, 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 switch will turn blue when the unit is on. 2 Surround

Mode Group Selector: Press this button to select the top-level group of surround modes. Each press of the button will select one of the surround mode categories. Once the button is pressed so F Digital Input Selector G Delay Adjust Selector H </> Buttons I Set Button J Optical 3 Digital Input that the name of the desired surround mode category appears in the on-screen display and in the Lower Display Line \$, press the Surround Mode Selector 3 to cycle through the individual modes available. For example, press this button to select Dolby modes, and then press the Surround Mode Selector 3 to choose from the various mode options.

3 Surround Mode Selector: Press this button to select from among the available surround mode K Coaxial 3 Digital Jack L Video 4 Audio/Video Jacks options for the surround mode category selected. The specific modes will vary based on the number of speakers available, the surround mode category and whether the input source is digital or analog. For example, press the Surround Mode Group Selector 2 to select a category such as Dolby or Logic 7, and then press this button to see the specific mode choices that are available. (For more information on mode selection, see page 31.) FRONT-PANEL CONTROLS 5

FRONT-PANEL CONTROLS 4 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/MONO mode, each tap of the Selector 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 Lower Display Line \$ and in the on-screen display. When the tuner is in the AUTO/STEREO mode, press the button once, and the tuner will scan for a station with acceptable signal strength. When the next higher or lower frequency station with a strong-enough signal is tuned, the frequency scan will stop and the Lower Display Line \$ and the on-screen display will indicate AUTO TUNED. When an FM Stereo station is tuned, the display will read AUTO ST TUNED.

(See page 34 for more information on using the tuner.) 5 Tuner Band Selector: Pressing this button will automatically switch the AVR 430 to the Tuner mode. Pressing it again will switch between the AM and FM frequency bands. (See page 34 for more information on the tuner.) 6 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 34 for more information on tuner programming.) 7 Input Source Selector: Press this button to change the input by scrolling up or down through the li off and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel so that the word "OFF" may be read at the top of the switch. NOTE: This switch is normally left in the "ON" position. B Headphone Jack: This jack may be used to listen to the AVR 430's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug, or that you use an adapter, as needed, to convert the plug on your headphones to the 1/4" jack used on the AVR.

When the headphone jack is in use, the main room speakers will automatically be turned off and the unit will output a standard stereo signal. You may also use one of the Dolby Headphone modes for an enhanced listening experience. (For more information on headphone listening, see page 31.) C Tone Mode Button: This button controls the tone mode settings, enabling adjustment of the bass and treble boost/cut. You may also use it to take the tone controls out of the signal path completely for "flat" response. The first press of the button displays a TONE MODE message in the Lower Display Line \$ and in the on-screen display. To take the controls out of the signal path, press either of the </> Buttons H until the display reads TONE OUT. To change the bass or treble settings, press the button again until the desired option appears in the Lower Display Line \$ and in the on-screen display and then press either of the </> Buttons H to enter the desired boost or cut setting. (Note that the tone controls apply only to the front left/right speakers to avoid the possibility of clipping distortion in the surround channels. See pages 21 and 30 for more information on the tone controls.

) D Speaker Selector Button: Press this button to begin the process of configuring the AVR 430 for the type of speakers it is being used with. For complete information on configuring the speaker settings, see page 23. E Channel Adjust Selector: Press the button to begin the process of adjusting the channel level outputs using the source currently playing through your AVR. (For complete information on adjusting the channel output level, see page 35.) F Digital Input Selector: Press this button to begin the process of selecting a digital source for use with the currently selected input.



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Once the button has been pressed, use the </> Buttons H to choose the desired input and then press the Set Button I to enter the setting into the unit's memory. (See page 31 for more information on digital audio.) G Delay Adjust Selector: Press this button to begin the process of adjusting the delay settings for Dolby surround modes. (See page 26 for more information on delay adjustments.) H </> Buttons: When making system configuration changes using the front-panel controls, press these button to scroll through the available choices for the option being adjusted.

I Set Button: When making system configuration changes using the front-panel controls, press this button to enter a setting into the unit's memory. J Optical 3

Digital Input: Connect the optical digital output of an audio or video product to this jack. K Coaxial 3 Digital Jack: Connect the coaxial digital input or output for a digital audio product such as a portable audio player or video game to this jack. L Video 4 Jacks: These audio/video jacks may be used as an input for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. FRONT-PANEL

CONTROLS 7 REAR-PANEL CONNECTIONS 41 39 42 40 38 37 35 36 33 34 32 31 j hf g e d c b a · ° fl fi > ki 430 49 48 35 49 34 48 33 35 49 32 34 48 31 33 35 49 30 32 34 48 29 31 33 35 49 28 47 30 32 34 48 46 29 31 33 35 49 37 28 47 30 45 32 34 48 36 46 29 31 44 33 35 26 37 47 28 30 39 32 34 27 36 46 29 38 31 33 28 37 26 28 47 30 25 32 29 27 36 46 29 24 31 30 28 26 37 28 23 30 31 29 27 36 22 29 30 28 21 28 26 31 29 20 27 30 28 31 29 30 31 47 45 46 44 37 39 47 45 36 38 46 44 43 42 41 43 40 42 37 36 35 37 34 36 33 35 37 32 34 36 31 33 35 37 32 34 36 31 33 35 37 32 34 36 31 33 35 37 32 34 36 31 33 35 37 32 34 36 40 31 33 35 37 39 41 32 47 34 36 38 40 46 31 33 35 39 41 45 32 34 38 40 44 31 33 39 41 43 32 38 40 42 31 39 38 47 51 46 50 45 51 47 49 44 48 46 50 45 39 43 49 41 47 51 44 38 42 48 40 46 50 43 CD Audio 51 45 Inputs 39 47 49 41 DVD Audio Inputs 44 38 42 48 40 46 50 Optical Digital Audio Inputs 45 39 47 51 41 43 49 38 44 Tape 42 50 Inputs 40 46 48 39 47 51 Tape 45 49 Outputs 41 43 47 51 38 42 48 46 40 44 Coaxial Digital Audio Inputs 46 50 50 39 45 41 49 49 45 47 51 Video43 Audio Inputs 1 47 51 51 38 44 40 42 44 46 48 Video50 Audio Outputs 1 46 48 50 50 39 45 43 43 49 45 49 Video42 Audio Inputs 47 51 49 2 38 42 50 48 44 44 46 48 8-Channel Direct Inputs 48 43 43 45 49 47 51 Video42 Audio Outputs 2 42 48 44 46 3 Video50 Audio Inputs 43 49 45 42 48 44 43 41 40 39 41 38 40 ; TM £ ¢ § ¶ · ° ; AM Antenna TM FM Antenna £ Preamp Outputs ¢ Subwoofer Output A-BUS Connector § Surround Speaker Outputs ¶ Front Speaker Outputs · Fan Vents ° Center Speaker Outputs , Surround Back/Multiroom Speaker Outputs / Switched AC Accessory Outlet ✕ Unswitched AC Accessory Outlet < AC Power Cord Jack > Video Monitor Outputs fi DVD Video Inputs fl Video 1 Video Inputs Video 1 Video Outputs 49 ° Video 2 Video Inputs 48 · Video 2 Video Outputs 35 49 a Video 3 Video Inputs 49 47 34 48 48 46 b Component Video Monitor Outputs 33 35 49 35 37 c Component Video 1 Inputs 32 34 48 34 31 36 d Component Video 2 Inputs 33 35 33 49 26 30 e RS-232 Port 32 34 32 48 27 29 31 f Multiroom IR Input 33 31 35 28 28 30 32 g Remote IR Input 30 34 29 29 31 29 33 h Remote IR Output 30 28 30 31 i Coaxial Digital Audio Output 28 32 29 31 j Multiroom Audio Outputs 28 30 k Optical Digital Audio Output 29 28 26 37 47 27 36 46 28 26 37 47 29 27 36 46 30 28 26 37 47 31 29 27 36 46 30 28 37 26 47 45 31 29 27 36 46 44 30 28 26 37 47 39 45 31 43 29 27 36 46 38 44 30 42 28 37 26 39 25 45 31 41 29 27 36 24 38 44 40 30 28 26 23 39 25 45 31 37 29 27 22 38 24 44 36 30 28 21 23 25 39 35 31 29 20 22 24 38 34 30 21 23 33 25 31 20 22 32 24 21 23 20 22 21 20 39 41 25 43 45 37 24 42 38 40 44 36 23 41 25 43 39 35 45 37 22 24 42 38 34 40 44 36 21 33 23 41 39 43 25 35 45 37 20 32 22 24 42 38 34 40 44 36 21 33 23 35 39 37 25 43 45 41 43 32 20 22 40 38 36 24 34 44 42 42 21 35 33 23 37 39 25 43 45 41 41 43 20 34 22 32 24 36 38 40 44 42 37 40 42 21 33 23 35 39 37 25 41 36 37 41 43 20 34 22 32 38 40 24 36 35 36 37 40 42 37 41 21 33 23 35 34 25 37 35 36 41 37 43 20363240 22 34 33 24 36 34 35 36 37 40 42 35 33 39 21 23 35 32 33 34 35 37 41 34 36 38 20 34 22 31 32 32 33 35 34 36 33 37 40 21 33 32 34 33 35 32 36 37 20 31 32 32 34 35 31 33 36 32 33 34 35 31 32 33 34 33 32 32 31 , / 2 < 42 NOTE: 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.harman.com](http://www.harman.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 Surround Left: Surround Right: Surround Back Left: Surround Back Right: Subwoofer: Digital Audio: Composite Video: Blue Gray Brown Tan Purple Orange Yellow Component Video "Y": Green Component Video "Pr": Red Component Video "Pb": Blue 8 REAR-PANEL CONNECTIONS REAR-PANEL CONNECTIONS ; 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. TM FM Antenna: Connect the supplied indoor or an optional external FM antenna to this terminal.

£ 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. 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 430. See page 38 for more information on A-BUS. § 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 16 for more information on speaker polarity.) ¶ Front Speaker Outputs: Connect these outputs to the matching + or terminals on your left and right speakers.



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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 430 to the red (+) terminals on the speakers and the black (–) terminals on the AVR 430 to the black (–) terminals on the speakers. See page 16 for more information on speaker polarity. • Fan Vents: These ventilation holes are the output of the AVR 430'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. ° Center Speaker Outputs: 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 negative (–) terminal on your speaker. (See page 16 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 Advanced Menu of the OSD system. See page 39 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. / Switched AC Accessory Outlet: These outlets may be used to power any device you wish to have turned on when the AVR 430 is turned on with the Standby/On Switch I. ✕ Unswitched AC Accessory Outlet: This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR 430 is on or off.

NOTE: The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts. < AC Power Cord Jack: Connect the AC power cord to this jack when the installation is complete. To ensure safe operation, use only the power cord supplied with the unit. If a replacement is required, it must be of the same type and capacity. > Video Monitor Outputs: Connect these jacks to the composite or S-Video input of a TV monitor or video projector to view the on-screen menus and the output of any standard video source selected by the receiver's video switcher. fi DVD Video Inputs: Connect the composite or S-Video outputs of a DVD player or other video source to these jacks. fl Video 1 Video Inputs: Connect the composite or S-Video PLAY/OUT jacks of a VCR or other video source to these jacks. Video 1 Video Outputs: Connect the composite or S-Video REC/IN jacks of a VCR or other video recording device such as a DVD recorder or PVR to these jacks. ° Video 2 Video Inputs: Connect the composite or S-Video PLAY/OUT jacks of a VCR or other video source to these jacks. · Video 2 Video Outputs: Connect the composite or S-Video REC/IN jacks of a VCR or other video recording device such as a DVD recorder or PVR to these jacks.

a Video 3 Video Inputs: Connect the composite or S-Video PLAY/OUT jacks of a VCR or other video source to these jacks. b Component Video Monitor Outputs: Connect these outputs to the component video inputs of a video projector or monitor. When a source connected to one of the Component Video Inputs cd is selected the signal will be sent to these jacks. c Component Video 1 Inputs: These inputs may be used with any source device equipped with analog Y/Pr/Pb or RGB component video outputs. The factory default is for these jacks to be a linked to the DVD input, but you may change the setting at any time through the INPUT SETUP menu. (See page 21 for more information on configuring the component video inputs.) d Component Video 2 Inputs: These inputs may be used with any video source device equipped with analog Y/Pr/Pb or RGB component video outputs. The factory default is for these jacks to be a linked to the Video 2 input, but you may change the setting at any time through the INPUT SETUP menu. (See page 21 for more information on configuring the component video inputs.) e RS-232 Port: This jack may be used to control the AVR 430 over a bi-directional RS-232 serial control link to a compatible computer or programmable remote control system.

Due to the complexity of programming RS-232 commands we strongly recommend that connections to this port for control purposes be made by a trained and qualified technician. This jack may also link to a compatible computer to upgrade the software and operating system of the AVR 430 when appropriate upgrades are available. f Multiroom IR Input: Connect the output of an IR sensor in a remote room to this jack to operate the AVR 430's multiroom control system. REAR-PANEL CONNECTIONS 9 REAR-PANEL CONNECTIONS 49 47 45 43 49 48 45 44 42 47 46 43 48 35 44 39 41 46 37 42 g Remote IR Input: If the AVR 430's front-panel 40 35 34 39 38 37 36 41 IR sensor is blocked due to cabinet 34 33or 38 25 37 doors 26 40 37 36 other 36 33 32 25 37 obstructions, an external IR sensor may be used. 24 36 26 27 32 31 45 36 27 Connect the output of the sensor to 49 30 24 23 35 this 47 28 43 35 jack. 29 42 31 28 44 22 34 48 46 23 35 34 30 29 22 21 33 29 30 41 h Remote IR Output: This connection permits the 33 35 28 39 34 37 29 30 32 37 IR sensor in the receiver to serve other remote31 20 32 con34 36 21 33 38 40 28 33 31 25 37 26 jack on 36 trolled devices. Connect this jack to the "IR IN"20 32 31 49 27 45 43 Harman Kardon (or other compatible)32 47 24 36 35 equipment. 31 28 44 42 34 48 46 23 35 30 37 22 34 35 29 39 41 i Coaxial Digital Audio Output: Connect this jack 33 29 30 37 34 36 21 33 38 to the coaxial digital input of a CD-R/RW, MiniDisc or40 32 28 31 36 33 31 20 32 26 25 37 other compatible digital recorder. 35 32 27 24 36 31 these 35 j Multiroom Audio Outputs: Connect 28 23jacks 34 30 29 22 33 to the optional external audio power amplifier and 34 29 30 21 33 32 video distribution system that delivers28 31 20 32 31 the source selected for multizone distribution.



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47 45 43 37 41 47 51 49 36 40 46 50 48 49 47 45 43 46 44 42 k Optical Digital Audio Output: Connect this jack 35 39 45 49 35 48 46 44 42 37 39 41 34 38 44 48 to the optical digital input connector on a 37 39 41 41 CD-R/RW, 37 34 35 38 40 36 43 other compatible digital recorder.

33 MiniDisc or 34 36 38 40 36 37 40 33 26 25 37 32 41 42 51 47 37 35 36 39 32 33 24 25 37 27 26 36 31 CD Audio Inputs: Connect these jacks to the 36 40 46 50 31 32 23 24 36 34 35 38 28 27 35 35 39 45 49 left/right analog audio output of a compact disc player 34 30 31 22 23 35 33 29 28 34 34 38 44 29 30 29 33 32 or CD changer 48 other audio source. 30 21 22 34 33 or 43 33 28 29 20 21 33 31 32 31 30 32 28 31 20 32 32 41 42 31 Audio 37 DVD 47 51 Inputs: Connect the left/right analog 31 outputs of 46 DVD player or other audio source to 36 40 a 50 35 jacks. these 39 45 49 34 38 44 48 33 Optical Digital Audio Inputs: Connect the opti 43 41 47 51 37 Video 1 Audio Inputs: Connect the left/right 36 40 46 41 47 51 50 PLAY/OUT audio output jacks on a VCR or other video 35 39 40 46 45 49 source to 50 48 jacks. these 34 38 44 39 45 49 33 44 43 38 Video 1 Audio Outputs: Connect the left/right 48 32 43 42 REC/IN audio input jacks on a VCR or other video 31 42 41 47 these jacks. source to 51 40 46 50 45 49 39 Video 2 Audio Inputs: Connect the left/right 38 44 48 PLAY/OUT audio output jacks on a VCR or other video 43 source to these jacks. 47 45 46 44 37 39 36 38 26 27 47 28 46 29 37 30 36 31 26 27 47 28 46 29 37 30 36 31 26 27 28 29 30 47 31 46 25 24 45 23 44 22 39 21 38 20 25 24 45 23 44 22 39 21 38 20 25 24 23 22 21 45 20 44 43 42 41 40 37 36 43 35 42 34 41 33 40 32 37 36 43 35 42 34 41 33 40 32 37 36 35 34 33 43 32 42 41 42 51 47 46 50 40 8-Channel Direct Inputs: These jacks are used 39 45 49 for connection to source devices such as DVD-Audio 38 44 48 or SACD players with discrete analog outputs. 43 Depending on the source device in use, all eight jacks 42 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. 47 51 41 Video 2 Audio Outputs: Connect the left/right 46 47 51 50 40 46 50 45 49 REC/IN audio input jacks on a VCR or other video 39 45 49 44 48 source to these jacks. 38 43 44 48 42 43 Video 3 Audio Inputs: Connect the left/right 42 PLAY/OUT audio output jacks on a VCR, PVR, cable set-top, satellite receiver, HDTV receiver or other video source to these jacks.

37 36 47 26 46 27 37 28 36 29 47 26 30 46 27 31 37 28 29 36 30 26 31 27 28 29 30 31 39 38 45 25 44 24 39 23 38 22 45 21 25 44 20 24 39 23 22 38 21 25 20 24 23 22 21 20 41 40 43 37 42 36 41 35 40 34 43 37 33 42 36 32 41 35 34 40 33 37 32 36 35 34 33 32 32 cal digital 42 output from a DVD player, HDTV receiver, 31 the S/P-DIF output of a compatible computer sound card playing MP3 files or streams, LD player or CD player to these 51 jacks. The signal may be a Dolby Digital 37 41 47 36 40 46 50 signal, a DTS signal or a standard PCM digital source. 35 39 45 49 34 Tape 44 48 Connect these jacks to the Play/Oout 38 Inputs: 37 of 47 51 33 43 jacks 41 an audio recorder. 36 46 32 40 42 50 35 Tape 45 49 31 39 Outputs: Connect these jacks to the 34 38 44 48 Record/Input jacks of an audio recorder. 33 41 43 51 47 37 32 Coaxial Digital Audio Inputs: Connect the coax 46 36 40 42 50 31 35 digital 39 45 from a DVD player, HDTV receiver, the output 49 34 38 44 48 S/P-DIF output of a compatible computer sound card 43 33 playing MP3 files or streams, LD player or CD player to 42 32 these jacks. The signal may be a Dolby Digital signal, 31 DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks. 10 REAR-PANEL CONNECTIONS MAIN REMOTE CONTROL FUNCTIONS 0 Power Off Button 1 Power On Button 2 LCD Information Display 3 Input Selectors 4 AVR Selector 5 Test Button 6 DSP Surround Mode Selector 7 Logic 7 Mode Select Button 8 Direct Button 9 Clear Button A Numeric Keys B Tuning Mode Button m Dim Button n Channel Select Button o Navigation Button F Digital Select Button G Set Button H Volume Up/Down Selectors I Transport Fast-Play/Scan Buttons J Main Transport Controls K Track Skip Up/Down Buttons L Preset Up/Down Button M Tuning Up/Down Button N Disc Skip Button O Program Button P Light Button Q Multiroom Button R Macro Buttons S Sleep Button T Night Mode Button U OSD Button V Tone Control Button W Mute Button X AM/FM Button Y Channel Up/Down Selector Z Transport Play Buttons a Delay Select Button b Speaker Select Button c Memory Button d Stereo Mode Select Button e DTS Neo:6 Mode Select Button f DTS Digital Mode Select Button g Dolby Mode Select Button h 6/8-Channel Input Select i SPL Select Button j EzSet Microphone Sensor k Lens k 0 1 2 3 4 5 6 7 8 9 A B C D F G H I J L N P K M O Q AVR 430 j i h f d g e c b E a Z Y X W V U T S R NOTES: · The function names shown here are each button's feature when used with the AVR 430. Most buttons have additional functions when used with other devices. When a button is pressed, the function name will appear in the bottom line of the LCD Information Display c. · The jack on the upper right side of the remote is reserved for future use. Do not remove the plug provided or connect any device to the jack. · 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](http://www.harmankardon.com).

MAIN REMOTE CONTROL FUNCTIONS 11 MAIN REMOTE CONTROL FUNCTIONS IMPORTANT NOTE: The AVR 430's remote may be programmed to control up to eight devices, including the AVR 430. Before using the remote, it is important to remember to press the Input Selector Button 3 that corresponds to the unit you wish to operate. In addition, the AVR 430's remote is shipped from the factory to operate the AVR 430 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 41 50 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 Input Selectors d. The descriptions shown here primarily detail the functions of the remote when it is used to operate the AVR 430. a Power Off Button: Press this button to place the AVR 430 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. 1 Power On Button: Press this button to turn on the power to a device selected by first pressing one of the Input Selectors 3. 2 LCD Information Display: This two-line screen displays various information depending on the commands that have been entered into the remote.



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3 Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR 430 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 430. Finally, it will change the remote control so that it controls the device selected.

After pressing one of these buttons you must press the AVR Selector Button 4 again to operate the AVR 430's functions with the remote. 4 AVR Selector: Pressing this button will switch the remote so that it will operate the AVR 430's functions. If the AVR 430 is in the Standby mode, it will also turn the AVR 430 on. 5 Test Button: Press this button to begin the sequence used to calibrate the AVR 430's output levels. (See page 26 for more information on calibrating the AVR 430.) 6 DSP Surround Mode Selector: Press this button to select one of the DSP surround modes, such as VMAx, Hall 1, Hall 2 or Theater. Each press of the button selects another mode. (See page 32 for more information on surround modes.) 7 Logic 7 Mode Select Button: Press this button to select from among the available Logic 7 surround modes. (See page 32 for the available Logic 7 options.)

8 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 A to select a station. (See page 34 for more information on the tuner.) 9 Clear Button: When programming the remote or using the EzSet feature, press this button to cancel the current function. When using the remote to enter frequencies for direct tuner access, press this button to clear previous entries.

A Numeric Keys: These buttons serve as a ten-button 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.

These buttons are also used to enter letters and numbers when renaming devices in the LCD Information Display. (See page 48 for more information on renaming devices and keys.) B Tuning Mode Button: Press this button to change the tuner mode between manual and automatic.

When the button is pressed so that AUTO/STEREO appears in the Upper Display Line # and in the on-screen display, only stations with acceptable signal quality will be tuned, and the tuner will play FM stations in stereo, when available. In the AUTO mode, when the Tuning Up/Down Buttons 4w are pressed, the unit will automatically search for the next available station with good signal strength. When this button is pressed so that MANUAL/MONO appears in the

Upper Display Line # and in the on-screen display each press of the Tuning Up/Down Buttons 4w will move the frequency up or down in single-step increments. When the FM band is in use, pressing the button so that the MANUAL mode is activated will enable you to tune stations with weak signals by changing to monaural reception. (See page 34 for more information on tuner operation.) m Dim Button: Press this button to activate the Dimmer function, which reduces the brightness of the front-panel display, or turns it off entirely. Press the button once to change the display to reduce the brightness by 50%, and press it again within five seconds and the main display will go completely dark. Note that this setting is temporary; regardless of any changes, the display will always return to full brightness when the AVR is turned on. The blue illumination around the Standby/On Switch 1 will always remain at full brightness regardless of the setting to remind you that the AVR is still turned on. The blue accent lighting inside the volume control will go out when the panel lights are at half brightness or fully dimmed.

n Channel Select Button: This button is used to start the process of setting the AVR 430's output levels to an external source. Once this button is pressed, press the /# on the Navigation Button o to select the channel being adjusted, then press the Set Button q, followed by the /# on the Navigation Button o again, to change the level setting. (See page 35 for more information.) o Navigation Button: This single disc-like button is used to navigate through the on-screen configuration menus, to scroll through the options list and to select choices for the various settings such as delay, speakers, surround modes, digital inputs, etc. To use the button, simply press it left, right, up or down in the direction < > icons printed on the button indicated by the / disc. Depending on the menu being used, pressing the button will either change a specific menu or configuration choice or it will change the option shown in the 48 46 44 42 on-screen or front-panel display. The sections in this 35 describing the manual 37 39 41 unit's individual features and 34 49 47 45 contain specific 51 36 38 40 configuration options 43 37 41 47 information on 48 46 44 42 36 40 46 33 the navigation controls are used. 50 how 26 25 37 p Digital 23 38 Button: 37

41 this 48 51 to assign Press button 31 34 36 35 40 34 38 44 47 28 Select 30 the 26 inputs 43 40 to source. one of 33 digital 25 37 33 36 JK 46 a 50 29 22 34 29 32 27 24 on (See page 33 for 33 36 32 35 39 45 49 30 21 more information 42 using digital 28 31 20 32 inputs.) 31 28 23 35 31 34 38 44 48 q Set Button: This button is used 42 enter settings to 29 30 21 33 32 into the AVR 430's memory.

31 is also used in the It 28 31 20 32 setup procedures for delay time, speaker configuration and channel output level adjustment. H Volume Up/Down Buttons: These controls share the common disc in the lower third of the remote. To raise the volume, press the button marked / by pressing towards the top of the remote. To lower the volume, press the button marked ▾ by pressing towards the bottom of the remote. The </> buttons on the left and right sides of this disc change channels up or down when the TV, cable box or satellite Input Selectors 3 have been pressed.

30 29 22 34 33 43 32 35 37 39 41 35 39 45 49 27 24 36 12 MAIN REMOTE CONTROL FUNCTIONS MAIN REMOTE CONTROL FUNCTIONS s Transport Fast-Play/Scan Buttons: These buttons have no direct function on the AVR 430, but they are used when the remote is programmed for a compatible DVD, CD or tape player. Pressing these buttons will transmit a fast-play forward, fast-play reverse, or fast-forward or -reverse scan command, according to the capabilities of the player being controlled. In the factory default setting, these buttons are preprogrammed with the remote codes for Harman Kardon DVD players so that you may control a compatible player without having to switch devices. J Main Transport Controls: These buttons have no direct function on the AVR 430, but they are used when the remote is programmed for a compatible DVD, CD or tape player. Pressing these buttons will transmit a stop (I), record (I), or pause (±) command, according to the capabilities of the player being controlled.



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In the factory default setting, these buttons are programmed with the remote codes for Harman Kardon DVD players so that you may control a compatible player without having to switch devices. **K Track Skip Up/Down Buttons:** These buttons do not have a direct function with the AVR 430, but when used with a compatibly programmed CD or DVD changer will change the track or chapter currently being played. In the factory default setting, these buttons are programmed with the remote codes for Harman Kardon DVD players so that you may control a compatible player without having to switch devices. **L Preset Up/Down Button:** When the tuner is in use, press this button to scroll through the stations programmed into the AVR 430's memory. **w Tuning Up/Down Button:** Press this button when the tuner is in use to change the station to one with a higher or lower frequency. When the tuner is in the MANUAL/MONO mode, each tap of the Selector 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 Lower Display Line \$ and in the on-screen display. When the tuner is in the AUTO/STEREO mode, press the button once, and the tuner will scan for a station with acceptable signal strength. When the next higher- or lower frequency station with a strong enough signal is tuned, the frequency scan will stop and the Lower Display Line \$ and the on-screen display will indicate AUTO TUNED. When an FM Stereo station is tuned, the display will read AUTO ST TUNED.

(See page 34 for more information on using the tuner.) **N Disc Skip Button:** This button has no direct function for the AVR 430 but may be used to change the disc in a CD or DVD changer when the remote is programmed for that type of device. **O Program Button:** This button is used to begin the process of programming the remote. Press and hold this button for three seconds to place the remote in the programming mode. Once the red LED under the Set Button q lights, release the button. You may then select from the desired option. (See pages 41 50 for more information on configuring the remote.) **P Light Button:** Press this button to activate the remote's backlight for ease of use in darkened rooms. **Q Multiroom Button:** Press this button to begin the process of activating the multiroom system or to change the input or volume level for the second zone. (See page 39 for more information on the multiroom system.) **R Macro Buttons:** Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote. (See page 44 for more information on macros.) **S Sleep Button:** Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 430 will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order: **W Mute Button:** Press this button to momentarily silence the AVR 430 or TV set being controlled, depending on which device has been selected.

**X AM/FM Button:** Press this button to select the AVR 430's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands. **Y Channel Up/Down Selector:** This button has no function when the AVR is being controlled, but when programmed for use with a VCR, TV, cable box, satellite receiver or other similar product it will change the channel up or down. (See pages 41 50 for more information on programming the remote.) **Z Transport Play Buttons:** These buttons have no direct function on the AVR 430, but they are used when the remote is programmed for a compatible DVD, CD or tape player.

Pressing these buttons will transmit a forward- or reverse-play command, according to the capabilities of the player being controlled. In the factory default setting, these buttons are programmed for Harman Kardon DVD players so that you may control a compatible player without having to switch devices. **a Delay Select Button:** This button selects adjustments to the A/V Sync Delay and the individual channel delays. The first press of the button displays an A/V SYNC DELAY message in the Lower Display Line \$ and in the on-screen display, which means that you may change the amount of time that all channels are delayed together behind the video. This enables you to compensate for the loss of lip sync that may be caused by digital video processing in your display or by television stations. To change the A/V Sync Delay, press the Set Button q while the A/V SYNC DELAY message is visible and then use the // Navigation Button o to change the setting so that the sound and the video image are in sync. To change the delay for an individual output channel, press the // Navigation Button o until the desired channel name is shown, and then press the Set Button q. Use the // Navigation Buttons o to change the delay amount. (See page 26 for more information on delay options.) **b Speaker Select Button:** Press this button to begin the process of configuring the AVR 430's bass management system.

Then press the // Navigation Button o to select the channel you wish to set up. Press the Set Button q and then select another channel to configure. When all adjustments have been completed, press the Set Button q twice to exit the settings and return to normal operation. (See page 23 for more information on speaker setup.) When the Sleep timer is in use the front panel displays indicators will dim to half brightness. **T Night Mode Button:** Press this button to activate the Night mode. This mode is available in specially encoded Dolby Digital sources, and it preserves dialogue (center channel) intelligibility at low volume levels. **U OSD Button:** Press this button to activate or turn off the On-Screen Display (OSD) system used to set up or adjust the AVR 430's parameters. **V Tone Control Button:** This button controls the tone mode settings, enabling adjustment of the bass and treble boost/cut. You may also use it to take the tone controls out of the signal path completely for "flat" response.

The first press of the button displays a TONE IN message in the Lower Display Line \$ and in the on-screen display. To take the controls out of the signal path press either of the // Navigation Buttons o until the display reads TONE OUT. To change the bass or treble settings, press the button again until the desired option appears in the Lower Display Line \$ and in the on-screen display and then press either of the // Navigation Buttons o to enter the desired boost or cut setting. (See pages 21 and 30 for more information on the tone controls.) **MAIN REMOTE CONTROL FUNCTIONS 13 MAIN REMOTE CONTROL**

**FUNCTIONS c Memory Button:** Press this button to enter a radio station to the AVR 430's preset memory.

First, tune the desired station, and then press this button. Within five seconds of when you see the station's frequency flash in the Upper Display Line # and in the on-screen display, press the numeric keys for the preset number between 01 and 30 that you wish to assign to the station.



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(See page 34 for more information.) d Stereo Mode Select Button: Press this button to select a stereo listening mode. When the button is pressed so that SURROUND OFF appears in the Lower Display Line \$, the AVR will operate in either a bypass mode with true, fully analog, twochannel left/right stereo mode with no surround processing or with full bass management, as opposed to other modes where digital processing is always used.

When the button is pressed so that SURROUND OFF appears in the Lower Display Line \$, and the DSP and SURROUND OFF Surround Mode Indicators % are lit, you will enjoy a twochannel 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 32 for more information on stereo playback modes.) e DTS Neo:6 Mode Select Button: Press this button to select a DTS Neo:6 mode. (See page 32 for the available DTS Neo:6 options.) f DTS Digital Mode Select Button: When a DTS-encoded digital source is playing, each press of this button will scroll through the available DTS modes. The specific choice of modes will vary according to the type of encoding on the disc and your system's speaker configuration.

When a DTS source is not in use, this button has no function. (See page 32 for the available DTS digital options.) g Dolby Mode Select Button: This button is used to select from the available Dolby Surround 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 32 for the 49 47 45 available Dolby43 surround mode options.) h 37 39 41 35 6-Channel/8-Channel Input Select: Press this button to select40 device41 47 51 to the 6- or 8the 37 connected 34 36 38 46 page 36 33 26 Direct Channel 25 37 Inputs 40 . (See 50 30 for more 32 27 24 information.) 36 35 39 45 49 31 30 29 28 28 29 30 31 23 22 21 20 35 34 33 32 34 38 44 48 43 33 32 31 42 48 46 44 42 i SPL Select Button: This button activates the EzSet function to quickly and accurately calibrate the AVR 430's output levels.

When the button is pressed you will then need to select between automatic EzSet operation or using the remote as a manual SPL meter by pressing the /# Navigation Button o until your choice appears in the remote's LCD display.

Press the Set Button q to enter the setting, and then follow the instructions as displayed in the LCD display. (For complete information, see page 27.) j EzSet Microphone Sensor: The microphone sensor that is used by the EzSet system is behind the three slots at the top of the remote control. When using EzSet to calibrate the AVR 430, be certain that the slots are not covered. (See page 27 for more information on using EzSet.

) k Lens: The infrared emitters behind the plastic lens at the top of the remote communicate the remote codes to the AVR 430. Be certain that the lens is not covered when using the remote, and point the lens toward the AVR for best results. In learning mode, the remote receives IR codes to be learned through a sensor behind the lens. NOTE: DO NOT remove the rubber plug that is supplied to cover the jack on the upper right side of the remote. The jack is not active and is reserved for future use.

14 MAIN REMOTE CONTROL FUNCTIONS ZONE II REMOTE CONTROL FUNCTIONS â POWER A OFF AVR VID1 MUTE K VID2 B AM/FM / VID3 VID4 â Power Off Button: When used in the room where the AVR 430 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 f jack, this button turns the Multiroom system on and off. AVR Selector Button: Press this button to turn on the AVR 430. The input in use when the unit was last on will be selected. ç AM/FM Tuner Selector: 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. ç © Preset Up/Down Track Skip Buttons: When the AVR 430'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. C D E F G H DISC SKIP DVD CD TAPE

DN TUNING UP Disc Skip Buttons: Press these buttons to © change discs on compatible Harman Kardon CD or DVD changer or players. I Volume Up/Down Buttons: When the Zone II remote is used in the room where the AVR 430 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 Multiroom IR Input f jack, this button will raise or lower the volume in the remote room. DN PRESET UP J DISC SKIP I VOLUME Input Selectors: When the AVR 430 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 the Zone II remote is used in the same room as the AVR 430, 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 430. Record/Pause Button: Press this button to activate the Record or Pause function on compatible Harman Kardon CD, DVD or cassette deck products. Play Forward/Reverse/Stop Buttons: Press these buttons to control compatible Harman Kardon CD, DVD or cassette players. ° Mute Button: When the Zone II remote is used in the room where the AVR 430 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 f jack, this button will temporarily silence the feed to the remote room only. Press the button again to return to the previous volume level.

â ç â ç © I ° Power Off Button AVR Selector Button AM/FM Tuner Selector 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 430 is located, or it may be used in a separate room with an optional infrared sensor that is connected to the AVR 430's Multiroom IR Input f jack. When it is used in the same room as the AVR 430, it will control the functions of the AVR 430 or any compatible Harman Kardon products in that room.



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When it is used in a separate room via a sensor connected to the Multiroom IR Input f 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 Outputs j jacks. (See page 39 for complete information on using the Multiroom system.) · To make it easier to follow the instructions that refer to the controls and connectors in this illustration, a larger copy may be downloaded from the Product Support section for this product at [www.harmankardon.com](http://www.harmankardon.com).

**ZONE II REMOTE CONTROL FUNCTIONS 15 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 good practice to turn off and unplug the AVR 49 47 45 43 and ALL source equipment from the AC output before 48 46 44 42 making any audio or video system connections. 7.

Connect the front, center, surround and surround back speaker outputs §¶, 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 49 47 in 45 consult selecting the proper cable. 48 46 44 Regardless of the brand of cable selected, we recom 34 36 38 mend that you use cable with a gauge of 14 or smaller. 33 26 Remember that in specifying cable, the lower the 25 32 27 24 number, the thicker the cable. 31 28 23 35 37 39 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.

43 42 41 40 35 37 39 41 34 Audio Equipment 37 41 47 51 36 38 40 Connections 36 40 high-quality interconnect 33 We recommend that you use 46 50 26 25 37 35 39 45 32 cables when 36 27 24 making connections 49 source equipment to 31 28 23 35 34 38 44 48 and recorders to preserve the integrity of the signals. 30 29 22 34 43 33 29 1. 30 21 the analog output of a CD player to the 42 Connect 33 32 28 31 20 32 31 CD Audio Inputs . NOTE: If your CD player has both fixed and variable 49 48 35 34 33 32 31 30 29 28 47 audio outputs, it is best to use the fixed output unless 45 43 46 you find 42 the input to the receiver is so low that the 44 that 37 sound is noisy, or 49 high that it 43 distorted. 39 41 so 47 45 is 47 51 37 48 41 46 44 42 36 38 40 46 50 Connect 36 35 40 Play/Out 41 262. 25 37 the analog 37 39 jacks of a cassette 45 49 35 or other 38 40 27 deck, MD, CD-R 34 39 36 audio recorder to 41 47 51 37 the 24 36 38 44 48 . Connect the 37 36 40 jacks 23 35 28 Tape Inputs 34 33 26 25 analog Record/In 46 50 43 29 on 22 recorder to the 27 24 36 39 45 the 34 33 32 Tape Outputs 35 on the 49 21 33 34 38 44 48 30 AVR 430. 49 32 31 45 42 23 35 47 28 43 31 20 32 48 31 30 44 42 43 33 46 29 22 34 3. Connect the 37 39 of 41 digital sources such as output 30 any 33 32 29 42 21 35 such as a 34 or 28 47 31 45 20 43 32 player, advanced CD 49 DVD changer or 41 47 51 31 37 36 38 40 video game, a 48 46 satellite 42 36 40 HDTV tuner or 33 digital 25 44 receiver, 46 50 26 37 digital cable set-top 37 39 the output of 45 compati 49 32 35 24 or 41 35 39 a 27 box 36 ble computer sound 36 38 the 34 37 41 47 51 31 34 23 35 40 Optical and 48 38 44 28 card to 30 33 22 25 37 43 40 46 Coaxial Digital 29 26 Inputs 33 36 JK. 50 Audio 34 29 32 27 24 36 32 35 39 45 49 42 30 21 33 4.

Connect 28 coaxial 20 optical Digital Audio Outputs the 31 28 23 35 31 34 38 44 48 31 or 32 ik on the rear panel of the AVR 430 to the matching 30 29 22 34 33 43 digital input connections on a CD-R or 32 MiniDisc recorder. 29 30 21 33 42 28 31 20 32 31 37 36 35 30 Cable with a gauge of 16 may be used for short 29 22 34 runs 29 30 21 33 of less than ten feet. We do not recommend that you 28 31 20 32 9. If an external multichannel audio source with 5.1 outputs such as an external digital processor/decoder, DVD-Audio or SACD player is used, connect the outputs 41 that device to the 8-Channel Direct 37 of 47 51 Inputs 40 .

46 50 36 Video Equipment Connections 34 38 44 48 Video equipment is connected in the same manner 33 43 as 32 components. Again, the use of high-quality audio 42 interconnect 49 47 is 45 43 cables recommended to preserve 31 signal quality. 46 44 42 48 49 47 45 43 35 37 39 41 35 39 45 49 use cables with an AWG equivalent of 18 or higher, due to the power loss and degradation in performance that will occur. 5. Assemble the AM loop antenna supplied with the unit so that the tabs at the bottom of the antenna loop snap into the holes in the base.

Connect it to the AM and GND Screw Terminals j . Cables that are run inside walls should have the appropriate markings to indicate listing with UL, CSA or other 49 appropriate testing agency standards. Questions about 48 running cables inside walls should be referred to your 35 installer or a licensed electrician who is familiar with 34 42 21 33 the NEC and/or the applicable building codes in 36 33 49 25 45 43 29 40 30 46 50 36 32 35 39 45 49 26 47 37 28 31 32 27 24 31 20 32 20 32 46 36 42 28 39 31 45 and 35 31 34 38 44 Connect 35 31 28 23 your area. 32 48 2. 24 44 the analog audio 49 video outputs of a 48 27 33 43 22 37 receiver, 38 44 converter 31 35 satellite 39 41 cable TV 29 48 34 or television set or 34 30 28 23 35 29 42 When connecting wires to the speakers, be certain 30 34 any other video source to 30 47 51 3 Audio and 36 38 40 43 Video 33 37 41 the 21 33 32 29 22 34 28 31 20 32 to observe proper polarity. Note that the positive (+) 29 33 Video Input 37 36 42 . 46 50 31 32 26 33 30 21 25 Jacks a 40 terminal of each speaker connection now carries a 28 32 20 24 36 35 39 45 49 31 31 27 32 49 31 47 28 23 43 35 analog audio and 48 45 3. Connect the 34 38 44 video outputs of a specific color code, as noted on page 8. However, 43 DVD 44 laser disc 33 most speakers still use a red terminal for the positive 48 30 46 29 or 22 42 34 player to the DVD Audio and 42 39 Video Inputs (+) connection. Connect the "negative" or "black" wire 35 29 37 30 21 41 33 fi 32 .

49 47 45 43 41 47 51 34 28 36 31 20 40 32 37 31 38 to the same terminal on both the receiver and the 4. 25 37 33 48 Connect the optical or 46 50 digital audio outputs 26 46 44 42 36 40 coaxial speaker.



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