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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 270. You'll find the answers to all your questions on the HARMAN KARDON AVR 270 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 270

User guide HARMAN KARDON AVR 270

Operating instructions HARMAN KARDON AVR 270

Instructions for use HARMAN KARDON AVR 270

Instruction manual HARMAN KARDON AVR 270

AVR 3700, AVR 370
AVR 2700, AVR 270

Audio/video receiver

Owner's Manual



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Manual abstract:

To obtain the maximum enjoyment from your new receiver, please read this manual and refer back to it as you become more familiar with its features and their operation. If you have any questions about this product, its installation or its operation, please contact your Harman Kardon retailer or custom installer, or visit the Web site at www.harmaninternational.com. **IMPORTANT SAFETY INFORMATION** Verify Line Voltage Before Use The AVR 3700 and AVR 2700 have been designed for use with 120-volt AC current. The AVR 370 and AVR 270 have been designed for use with 220-240-volt AC current. Connection to a line voltage other than that for which your receiver 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 supplied with 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 your receiver 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 warranty. If water or any metal object such as a paper clip, wire or staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service center.

CATV or Antenna Grounding (AVR3700/AVR 2700) 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 United States 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, which 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. **Supplied Accessories** The following accessory items are supplied with your receiver.

If any of these items are missing, please contact your Harman Kardon dealer or Harman Kardon customer service at www.harmaninternational.com. System remote control Zone 2 remote control (AVR 3700/AVR 370 only) EzSet/EQ microphone AM loop antenna FM wire antenna Six AAA batteries (AVR 3700/AVR 370); four AAA batteries (AVR 2700/AVR 270) AC power cord **Place the Receiver** Place the receiver on a firm and level surface. Be certain that the surface and any mounting hardware can support the AVR's weight. Provide proper space above and below the AVR for ventilation. Recommended clearance distances are 30cm above the unit, 30cm behind the unit and 30cm on each side of the unit. If you install the AVR in a cabinet or other enclosed area, provide cooling air within the cabinet. Under some circumstances, a fan may be required. Do not obstruct the ventilation slots on the top of the receiver or place objects directly over them. Do not place the receiver directly on a carpeted surface. Do not place the receiver in moist or humid locations, in extremely hot or cold locations, in areas near heaters or heat registers, or in direct sunlight.

3 ENGLISH AVR Introduction, Supplied Accessories, Important Safety Information and Place the Receiver AVR Front-Panel Controls Power Button Info Button Front-Panel Controls Power Indicator Setup Button IR Sensor Message Display Volume Knob USB Port Resolution Button Video Modes Button Audio Effects Button Surround Modes Button Back/Exit Button OK Button Source List Button Headphone Jack/ EzSet/EQ Mic Input HDMI® Front Input Connector Left/Right Buttons Up/Down Buttons **4 Front-Panel Controls, continued Power indicator/Power button:** The AVR has four different power modes: Off (Power indicator not illuminated): When the rear-panel Main Power switch is in the Off position or the power cord is unplugged the AVR is off and will not respond to any commands. Plugging the power cord into a live AC outlet and setting the Main Power switch in the On position will put the AVR into the Eco Standby mode. Eco Standby (Power indicator glows solid amber): The Eco Standby mode minimizes energy consumption when you're not using the AVR. When the AVR is in Eco Standby, it will not automatically turn on or play audio in response to an AirPlay signal from a networked device. When the AVR is in Eco Standby, pressing the Power button turns it on. To put the AVR into Eco Standby when it is on, press the Power button for more than three seconds. **NOTE:** The AVR will not automatically enter the Eco Standby mode. Standby (Power indicator glows solid amber): The Standby mode mutes the AVR and shuts off its front-panel display, but allows the AVR to automatically turn on and play audio in response to an AirPlay signal from a networked device. When the AVR is in Standby, pressing the Power button turns it on. To put the AVR into Standby when it is on, press the Power button for less than three seconds. **NOTE:** The AVR will automatically enter the Standby mode whenever no control buttons have been pressed and no audio signal has been present for 30 minutes. on (Power indicator glows solid white): When the AVR is on it is fully operational. **IMPORTANT NOTE:** If the PROTECT message ever appears on the AVR's front-panel message display, turn off the AVR and unplug it from the AC outlet. Check all speaker wires for a possible short-circuit (the + and - conductors touching each other or both touching the same piece of metal). If a short-circuit is not found, bring the unit to an authorized Harman Kardon service center for inspection and repair before using it again.

Setup button: Press this button to access the AVR's main menu. **Info button:** Press this button to access the AVR's Source submenu, which contains the settings for the source currently playing. Use the Up/Down buttons to scroll through the different settings.



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Message display: Various messages appear in this two-line display in response to commands and changes in the incoming signal. In normal operation, the current source name appears on the upper line, while the surround mode is displayed on the lower line.

When the on-screen display menu system (OSD) is in use, the current menu settings appear. **iR sensor:** This sensor receives infrared (iR) commands from the remote control. It is important to ensure that the sensor is not blocked. If covering the iR sensor is unavoidable (such as when the receiver is installed inside of a cabinet), connect an optional infrared receiver to the Remote iR In connector on the AVR's rear panel. **Volume knob:** Turn this knob to raise or lower the volume. **Headphone jack/EzSet/EQ Mic input:** Connect a 1/4" stereo headphone plug to this jack for private listening. This jack is also used to connect the supplied microphone for the EzSet/EQ procedure described in *Configure the AVR For Your Speakers*, on page 26. **USB port:** You can use this port to play audio files from a connected Apple iOS device and play MP3 and WMA audio files from a USB device inserted into the USB port. You can also use this port to perform software upgrades that may be offered in the future. Do not connect a storage device, peripheral product or a PC here, unless you are instructed to do so as part of an upgrade procedure.

HDMI (High-Definition Multimedia Interface®) Front Input connector: Connect an HDMI-capable source component that will be used only temporarily, such as a camcorder or game console, here. **Resolution button:** Press this button to access the AVR's video output resolution setting: 480p (AVR 3700/AVR 2700), 576p (AVR 370/AVR 270), 720p, 1080i, 1080p or 1080p/24Hz. Use the Up/Down and OK buttons to change the setting. **IMPORTANT NOTE:** If you set the AVR's video output resolution higher than the capabilities of the actual connection between the AVR and your TV or video display, you will not see a picture. If you are using the composite video connection from the AVR to your TV (see *Connect Your TV or Video Display*, on page 17), the resolution will automatically be set to 480i. **Audio Effects button:** Press this button to access the Audio Effects submenu, which allows you to adjust the AVR's tone controls and other audio controls. See *Set Up Your Sources*, on page 26, for more information. **Video Modes button:** Press this button for direct access to the Video Modes submenu, which contains settings you can use to improve the video picture. Use the OK button to scroll through the different modes, and use the Up/Down and Left/Right buttons to make adjustments within each mode. See *Set Up Your Sources*, on page 26, for more information. **Surround Modes button:** Press this button to select a listening mode. The Surround Modes menu will appear on screen, and the menu line will appear in the front-panel display. Use the Up/Down buttons to change the surround-mode category and the Left/Right buttons to change the surround mode for that category. See *Set Up Your Sources*, on page 26, for more information. **Back/Exit button:** Press this button to return to the previous menu or to exit the menu system.

Left/Right buttons: Use these buttons to navigate the AVR's menus. **OK button:** Press this button to select the currently highlighted item. **Up/Down buttons:** Use these buttons to navigate the AVR's menus. **Analog Audio connectors:** The following analog audio connectors are provided: **Analog Audio Input connectors:** Use the AVR's Analog Audio Input connectors for source devices that don't have HDMI or digital audio connectors. See *Connect Your Audio and Video Source Devices*, on page 18, for more information.

Analog Rec[ord] Out connectors: Connect this analog audio output to the analog audio input of a recording device. A signal is available at this output whenever an analog audio source is playing. **Zone 2 Out connectors:** Connect these jacks to an external amplifier to power the speakers in the remote zone of a multizone system. **Pre-Out connectors (AVR 3700/AVR 370):** Connect these jacks to external amplifiers if more power is desired. The function of the Surround Back/Front Height/Zone 2 connectors is determined by the setting you make for the Assigned Amp. See *Manual Speaker Setup: Number of Speakers*, on page 38, for more information. **Subwoofer connector:** Connect this jack to a powered subwoofer with a line-level input. See *Connect Your Subwoofer*, on page 17, for more information. **NOTE:** The AVR 3700 and AVR 370 have two subwoofer connectors. **iR and Trigger connectors:** The following iR and trigger connectors are provided: **iR Remote In/Out connectors:** When the iR sensor on the front panel is blocked (such as when the AVR is installed inside a cabinet), connect an optional iR receiver to the iR Remote In jack.

The iR Remote Out jack may be connected to the iR input of a compatible product to enable remote control through the AVR. **Zone 2 iR Input connector:** Connect a remote iR receiver located in Zone 2 of a multizone system to this jack to control the AVR (and any source devices connected to the Remote iR Output connector) from the remote zone. **12V Trigger connector:** This connector provides 12V DC whenever the AVR is on. It can be used to turn on and off other devices such as a powered subwoofer. **Speaker connectors:** Use two-conductor speaker wire to connect each set of terminals to the correct speaker. See *Connect Your Speakers*, on page 17, for more information. **NOTE:** The Assigned Amp speaker connectors are used for the surround back channels in a 7.1-channel home theater, or you can reassign them to a remote room for multizone operation or to front height channels for Dolby Pro Logic IIz operation. See *Place Your Speakers*, on page XX, for more information. **Digital Audio connectors:** If your non-HDMI source devices have digital outputs, connect them to the AVR's digital audio connectors.

NOTE: Make only one type of digital connection (HDMI, optical or coaxial) from each device. See *Connect Your Audio and Video Source Devices*, on page 18, for more information. **Fan Vents:** These vents are used by the AVR's fan to cool the system. Maintain a clearance of at least three inches (75mm) from the nearest surface to avoid overheating the unit. 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. **IMPORTANT NOTE:** Never block the fan vents. Doing so could allow the AVR to overheat to dangerous levels. **Main Power switch:** This mechanical switch turns the AVR's power supply on or off. It is usually left on, and it cannot be turned on or off using the remote control.

AC Input connector: After you have made and verified all other connections, plug the supplied AC power cord into this receptacle and into an unswitched wall outlet.



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7 ENGLISH AVR Rear-Panel Connectors AVR System Remote Control Functions System Remote Control Functions IR Transmitter AVR Power On/Off Buttons Device Power On/Off Buttons Source Selector Buttons Audio Effects Button Video Modes Button Surround Modes Button Number Buttons Last Channel Button Back/Exit Button Activity Button Menu Button Up/Down/Left/Right Buttons OK Button Backlight Button (AVR 3700/AVR 370) A/B/C/D Buttons Disc Menu Button Volume Up/Down Buttons Mute Button Channel Up/Down and Page Buttons Transport Control Buttons Info Button AVR Button Zone Selector Switch Sleep Button Learn Button (AVR 3700/AVR 370) 8 System Remote Control Functions, continued In addition to controlling the AVR, the AVR remote is capable of controlling eight other devices, including an iPod/iPhone device connected to the AVR's front-panel USB port. During the installation process, you may program the codes for each of your source components into the remote. (See Program the Remote to Control Your Source Devices and TV, on page 23, for programming information.) To operate a component, press its Source Selector button to change the remote's control mode. A button's function depends on which component is being controlled. See Table A13 in the Appendix for listings of the functions for each type of component. Most of the buttons on the remote have dedicated functions, although the precise codes transmitted vary depending on the specific device being controlled. Due to the wide variety of functions for various source devices, we have included only a few of the most-often used functions on the remote: alphanumeric keys, transport controls, television-channel control, menu access and power on and off. Buttons dedicated to the AVR's AVR Power On/Off, Audio Effects, Video Modes, Surround Modes, Volume, Mute and Sleep Settings are available at any time, even when the remote is controlling another device.

AVR Power On/Off buttons: Press these buttons to turn the AVR on and off. The Main Power switch on the AVR's rear panel must be on for this button to work. **IR Transmitter:** As buttons are pressed on the remote, infrared codes are emitted through this opening. **Device Power On/Off buttons:** Press a device's Source Selector button, then press these buttons to turn the device on and off. This action will also turn on the AVR and switch the remote's control mode to operate the selected source device. The first press of the Radio button switches the AVR to the last-used tuner band (AM or FM). Each successive press changes the band. The first press of the USB button switches the AVR to the last-used source (USB or iPod). Each successive press cycles between the two sources. The first press of the Network button switches the AVR to the last-used source (Network or vTuner).

Each successive press cycles between the two sources. **Audio Effects button:** Press this button to access the Audio Effects submenu, which allows adjustment of the AVR's tone and other audio controls. See the Set Up Your Sources section, on page 26, for more information. **Video Modes button:** Press this button for direct access to the Video Modes submenu, which contains picture adjustments you can use after you have adjusted the picture settings on your TV or video display. See the Advanced Functions section, on page 33, for more information.

Surround Modes button: Press this button to access the Surround Modes submenu. select a surround-mode category: Auto Select, Virtual Surround, Stereo, Movie, Music or Game. When you select the category, it is highlighted and the surround mode changes. To change the surround mode for the selected category, press the OK button when the menu line is highlighted and use the Up/Down buttons to select one of the available surround-mode options. Press the OK button; or press the Back/Exit button to exit the Surround Modes menu and display the next higher menu in the hierarchy.

See the Advanced Functions section, on page 33, for more information. **Number buttons:** Use these buttons to enter numbers for radio-station frequencies or to select station presets. **Last Channel button:** When controlling a cable, satellite or HDTV set-top box or a TV, press this button to return to the previous television channel. **Activity button:** With this button you can program the remote to store up to 11 different Macros (Activities). (A Macro is a series of commands that are transmitted by a single button press.) Execute a Macro by pressing this button, followed by the Number button (or the AVR Power On button) into which you programmed the Macro. See Programming Macro (Activity) Commands, on page 41, for more information. **Back/Exit button:** Press this button to return to the previous menu or to exit the menu system. **Menu button:** This button is used within the tuner menus and an iPod connected to the AVR's front-panel USB port, and is also used to display the main menu on some source devices. To display the AVR's menu system, press the AVR button.

Up/Down/Left/Right buttons: These buttons are used to navigate the menu system and to operate the tuner. **OK button:** This button is used to select items from the menu system. **Backlight button (AVR 3700/AVR 370):** Press this button to illuminate the buttons on the remote. Press it again to turn the backlight off, or wait 5 seconds after the last button press for the light to turn off on its own. **Disc Menu button:** To display the disc's menu while a DVD or Blu-ray Disc is playing, press the Disc Source Selector button, then press this button. **A/B/C/D buttons:** These buttons can be used as additional source buttons and can also operate certain functions when used with some source devices. See Table A13 in the Appendix for details. These buttons are also used with a Teletext-capable television if your broadcast, cable or satellite provider offers Teletext service. **Volume Up/Down buttons:** Press these buttons to raise or lower the volume. **Channel Up/Down and Page buttons:** When the tuner has been selected, press these buttons to select a preset radio station.

While operating a cable, satellite or HDTV set-top box or a television, press these buttons to change channels. **Mute button:** Press this button to mute the AVR's speaker-output connectors and headphone jack. To restore the sound, press this button or adjust the volume. **transport Control buttons:** These buttons are used to control source devices. **Info button:** Press to display the AVR's Info Menu, which contains the settings for the current source.

AVR button: Press to display the AVR's Main Menu. **Sleep button:** Press this button to activate the sleep timer, which turns off the receiver after a programmed period of time. Each press increases the time by 10 minutes, up to 90 minutes ending with the Sleep Off message. **Learn button (AVR 3700/AVR 370):** The AVR 3700/AVR 370 remote is capable of learning individual IR codes from the original remote that came with a source device.



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See Program the Remote to Control Your Source Devices and TV, on page 23, for more information.

Zone Selector switch: Use this switch to select whether the AVR commands will affect the main listening area (Zone 1) or the remote zone of a multizone system (Zone 2). For normal operation, leave the switch in the Zone 1 position. 9 ENGLISH AVR System Remote Control Functions AVR Zone 2 Remote Control Functions (AVR 3700/AVR 370 only) IR Transmitter Lens Zone 2 Remote Control Functions (AVR 3700/AVR 370 only) Power Off Button Mute Button Source Selector Buttons Sleep Button AVR Button Back/Exit Button Menu Button Up/Down/Left/Right Buttons OK Button Volume Up/Down Buttons Transport Control Buttons Zone Selector Button Zone Indicator 10 Zone 2 Remote Control Functions (AVR 3700/AVR 370 only), continued By installing an IR receiver in the remote zone of a multizone system and connecting it to the AVR's Zone 2 IR Input connector, you can use the Zone 2 remote to control the sound in the remote zone from within the remote zone. You can use it to control the AVR's power, volume and mute functions or to select a source input for the remote zone, and to control a Harman Kardon source device connected to one of the AVR's Remote IR Out connectors. See Connect IR Equipment, on page 22, for more information. You can also use the Zone 2 remote in the main listening room to control the AVR and Harman Kardon Blu-ray Disc, DVD, CD or tape players. When the Zone 2 remote is in the Zone 1 control mode (the remote's Zone Indicator light will turn green), its power, volume and mute controls will affect only the main listening area. To restore operation to the remote zone, press the remote's Zone Selector button so that its Zone Indicator light turns red. IR Transmitter lens: As buttons are pressed on the remote, infrared codes are emitted through this lens. Power Off button: Press this button to turn the AVR off.

mute button: Press to mute the AVR's remote-zone speakers. To restore the sound, press this button, adjust the volume or turn off the multizone system. Make sure to switch the remote to Zone 2 mode so that only the remote zone will be affected. **Source Selector buttons:** With the remote in Zone 2 mode, press one of these buttons to select a source device for the remote zone. Pressing the button will also turn on the multizone system and switch the remote to the selected source device's control mode. You may select a different external source device than that for the main room, but not different tuner bands. If you select the same source as that for the main room, any commands sent to the source device will affect both zones. The first press of the Radio button switches the AVR to the last-used tuner band (AM or FM). Each successive press changes the band. The first press of the USB button switches the AVR to the last-used source (USB or iPod).

Each successive press cycles between the two sources. The first press of the Network button switches the AVR to the last-used source (Network or vTuner).

Sleep button: Press this button to activate the sleep timer, which turns off the receiver after a programmed period of time. Each press increases the time by 10 minutes, up to 90 minutes ending with the Sleep Off message.

AVR button: Press this button to turn on the AVR and select the last-used source. This button is also used to switch the remote control to AVR control mode.

Back/Exit button: Press this button to return to the previous menu or to exit the menu system. **Menu button:** This button is used within the tuner menus and is also used to display the main menu on some source devices. To display the AVR's menu system, press the AVR button.

Up/Down/Left/Right buttons: These buttons are used to navigate the menu system and to operate the tuner. **OK button:** This button is used to select items from the menu system. **Volume Up/Down buttons:** Press to raise or lower the volume level in the remote zone. **transport Control buttons:** These buttons are used to control source devices. **Zone Selector button and Zone Indicator light:** Each press of the Zone Selector button determines whether the AVR commands will affect the main listening area (Zone 1) or the remote zone (Zone 2). The Zone Indicator light will turn green when Zone 1 has been selected, and red when Zone 2 has been selected. The Zone Indicator light will also light up briefly when any button is pressed. 11 ENGLISH AVR Zone 2 Remote Control Functions (AVR 3700/AVR 370 only) AVR Introduction to Home Theater This introductory section will help you to familiarize yourself with some basic concepts unique to multichannel surround-sound receivers, which will make it easier for you to set up and operate your AVR. Introduction to Home Theater Surround Modes There are different theories as to the best way to present surround sound and to distribute each audio channel's sounds to the surround-sound system's speakers. A variety of algorithms have been developed in an effort to recreate the way we hear sounds in the real world, resulting in a rich variety of options.

Several companies have developed different surround-sound technologies, all of which can be accurately reproduced by your AVR: Dolby Laboratories: Dolby TrueHD, Dolby Digital Plus, Dolby Digital, Dolby Digital EX, Dolby Pro Logic IIx and IIz. Stereo Modes: Generic modes that expand upon conventional two-channel stereo, including 5CH and 7CH Stereo. Appendix Table A12, on page 50, contains detailed explanations of the different surroundsound options available on your AVR. Digital surround-sound modes, such as the Dolby Digital and DTS modes, are available only on specially encoded programs, such as those available via HDTV, DVD and Blu-ray Disc media and digital cable or satellite television. Other surround modes may be used with digital and analog signals to create a different surround presentation or to use a different number of speakers. Surround-mode selection depends upon the number of speakers in your system, the program you are watching or listening to, and your personal tastes. Typical Home Theater System A home theater typically includes an audio/video receiver, which controls the system and supplies amplification for the loudspeakers; a disc player; a source component for television broadcasts (cable box, satellite dish receiver, HDTV tuner or antenna connected to the TV); a TV or video display; and multiple loudspeakers. Multichannel Audio The main benefit of a home theater system is its ability to produce surround sound. Surround sound uses multiple speakers and amplifier channels to immerse you in the audio/video presentation for a dramatically increased sense of realism. Your AVR may have up to seven main speakers connected directly to it, plus a subwoofer.



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Each main speaker is powered by its own amplifier channel inside the AVR. A system with more than two speakers is called a multichannel system. The different main speaker types in a home theater system are: Front Left and Right: The front left and right speakers are used as in a two-channel system. In many surround-sound modes, these speakers are secondary, while the main action, especially dialogue, is reproduced by the center speaker. Center: When you are watching movies and television programs, the center speaker reproduces most of the dialogue and other soundtrack information, anchoring it with the picture.

When you are listening to a musical program, the center speaker helps to create a seamless front soundstage, creating a realistic "you-are-there" listening experience. Surround Left and Right: The surround left and right speakers produce ambient sounds that help create a realistic and immersive surround-sound environment. They also help recreate directional sound effects such as aircraft flyovers. Surround Back Left and Right: Surround back channel speakers are used with surround modes such as the Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, DTSES (Discrete and Matrix), DTS-HD High Resolution Audio, DTS-HD Master Audio and Logic 7.1 modes that are designed for 7.1-channel systems. Front Height Left and Right: Your AVR includes Dolby Pro Logic IIz decoding, which uses the AVR's Assigned Amp channels as front height channels. The addition of front height channels and an additional pair of speakers positioned above the front left and right speakers produces a surround-sound experience with added depth and dimension by creating lifelike sound that comes at you from varying heights. NOTE: You can set up your system to use either surround back speakers or front height speakers; you cannot use both. The surround back channel speakers are optional. If your system does not include surround back left and right speakers, you can set up your AVR with a 5.1-channel surround-sound system in the main listening area, and you can reassign the surround back channel amplifiers to power loudspeakers located in another room in a multizone system. (Alternately, you can reassign the surround back channel amplifiers to power front height speakers for use with Dolby Pro Logic IIz. See Manual Speaker Setup, on page 36, for more information.) Many people expect the surround speakers to play as loudly as the front speakers.

Although you will calibrate all of the speakers in your system to sound equally loud at the listening position, most artists use the surround speakers for ambient effects only, and they create their programs to steer relatively little sound to these speakers. Subwoofer: A subwoofer is designed to play only the lowest frequencies (the deep bass). It augments smaller, limited-range main speakers that are usually used for the other channels. Many digital-format programs, such as movies recorded in Dolby Digital, contain a low-frequency effects (LFE) channel that is directed to the subwoofer. The LFE channel packs the punch of a rumbling train or airplane, or the power of an explosion, adding realism and excitement to your home theater. Some people use two subwoofers for additional power and for even distribution of the sound. 12 Place Your Speakers Determine the locations for your system's speakers according to their manufacturer's directions and the layout of your listening room. Use the illustrations below as a guide for 7. To create the most realistic surround-sound environment possible, you should place your speakers in a circle with the listening position at its center. You should angle each speaker so it directly faces the listening position.

Use the diagrams below as a guide. TV C FL SUB FR NOTE: In a 7.1-channel system, you must choose to use either surround back speakers or front height speakers; you cannot use both simultaneously. Placing the Left, Center and Right Speakers Place the center speaker either on top of, below or mounted on the wall above or below the TV or video display screen. Place the front left and right speakers along the circle, about 30 degrees from the center speaker and angled toward the listener.

Place the front left, front right and center speakers at the same height, preferably at about the same height as the listener's ears. The center speaker should be no more than 2 feet (0.6m) above or below the left/right speakers. If you're using only two speakers with your AVR, place them in the front left and right positions. placing the Surround Speakers in a 5.

1-Channel System You should place the left and right surround speakers approximately 110 degrees from the center speaker, slightly behind and angled toward the listener. Alternatively, place them behind the listener, with each surround speaker facing the opposite-side front speaker. You should place the surround speakers 2 feet to 6 feet (0.6m to 1.8m) higher than the listener's ears. 1-channel system, place the side surround speakers 90 degrees from the center speaker, directly to either side of the listening position. Place the surround back left and right speakers 150 degrees from the center speaker, directly facing the opposite-side front speaker. You should place all the surround speakers 2 feet to 6 feet (0.6m to 1.8m) higher than the listener's ears.

1-Channel System Your AVR includes Dolby Pro Logic IIz decoding, which uses the AVR's Assigned Amp channels as front height channels. The addition of front height channels and an additional pair of speakers positioned above the front left and right speakers produces a surroundsound experience with added depth and dimension by creating lifelike sound that comes at you from varying heights. We recommend placing front height speakers at least 3 feet (0.9m) higher than the front left and front right speakers, and directly above or farther apart than the front left and right speakers. The higher and further apart you place the front height speakers, the more you should angle them down and in toward the listening position. NOTE: Your receiver will sound its best when the same model or brand of loudspeaker is used for all positions. SL SR Placing the Subwoofer SBL SBR Because a room's shape and volume can have a dramatic effect on a subwoofer's performance, it is best to experiment with placement so that you will find the location that produces the best results in your particular listening room. With that in mind, these rules will help you get started: Placing the subwoofer next to a wall generally will increase the amount of bass in the room. FHR* Placing the subwoofer in a corner generally will maximize the amount of bass in the room. In many rooms, placing the subwoofer along the same plane as the left and right speakers can produce the best integration between the sound of the subwoofer and that of the left and right speakers.



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In some rooms, the best performance could even result from placing the subwoofer behind the listening position. SL SR A good way to determine the best location for the subwoofer is by temporarily placing it in the listening position and playing music with strong bass content. Move around to various locations in the room while the system is playing (putting your ears where the subwoofer would be placed), and listen until you find the location where the bass performance is best. Place the subwoofer in that location. TV C FHL* FL SUB FR * FHL and FHR speakers should be at least 3 ft (0.

1-Channel Systems (Top: with Surround Back Speakers; Bottom: with Front Height Speakers) 13 ENGLISH AVR Place Your Speakers AVR Types of Home Theater System Connections There are different types of audio and video connections used to connect the AVR to your speakers, your TV or video display, and your source devices. The Consumer Electronics Association has established the CEA's® color-coding standard. Analog Audio Connection Front Left/Right Center Surround Left/Right Surround Back/Front Height Left/Right Subwoofer Digital Audio Connection Coaxial (input or output) Optical Input Optical Record Output Analog Video Connection Component Video Composite Video Color White/Red Green Blue/Gray Brown/Tan Purple Color Orange Black Gray Color Red/Green/Blue Yellow Types of Home Theater System Connections Always connect the colored (+) terminal on the AVR to the (+) terminal on the speaker (usually red), and the black (â) terminal on the AVR to the (â) terminal on the speaker (usually black). IMPORTANT: Make sure the (+) and (â) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your receiver or amplifier. Subwoofer Connections The subwoofer is a speaker dedicated to reproducing only the low (bass) frequencies, which require more power. To obtain the best results, most speaker manufacturers offer powered subwoofers that contain their own amplifiers. Use a single RCA audio cable to make a line-level (non-amplified) connection from the AVR's Subwoofer connector to a corresponding input jack on the subwoofer. Although the AVR's purple subwoofer output looks similar to a full-range analog audio jack, it is filtered so that only the low frequencies pass through it. Don't connect this output to any device other than a subwoofer. Source Device Connections Audio and video signals originate in source devices (components where a playback signal originates) such as your Blu-ray Disc or DVD player, CD player, DVR (digital video recorder) or other recorder, tape deck, game console, cable or satellite television tuner, an iPod or iPhone (connected to the AVR's USB port) or an MP3 player. The AVR's FM/AM tuner also counts as a source, even though no external connections are needed other than the FM and AM antennas. Separate connections are required for the audio and video portions of the source device's signal, except for digital HDMI connections. The types of connections you use will depend upon the capabilities of the source device and of your TV or video display. digital Audio Connections â HDMI There are two types of audio connections â digital and analog.

Digital audio signals are required for listening to sources encoded with digital surround modes, such as Dolby Digital and DTS, or for uncompressed PCM digital audio. Your AVR has three types of digital audio connections: HDMI, coaxial and optical. Do not use more than one type of digital audio connection for each source device. However, it's okay to make both analog and digital audio connections to the same source. Your AVR is equipped with seven rear-panel HDMI input connectors, and one HDMI monitor output connector. (The AVRs also have a front-panel HDMI input connector.) HDMI technology enables digital audio and video information to be carried using a single cable, delivering the highest quality picture and sound. If your TV or video display device has an HDMI input connector, make a single HDMI connection from each source device to the AVR. Usually, a separate digital audio connection is not required. The AVR's HDMI output connection contains an Audio Return Channel (ARC) that carries a digital audio signal from your TV or video display back to the AVR.

It allows you to listen to HDMI devices that are connected directly to your TV (such as an Internet connection) without making an additional connection from the device to the AVR. The ARC signal is active when the TV source is selected. See System Settings, on page 39, for more information. (The AVR 3700 and AVR 370 have two HDMI output connections.) The HDMI connector is shaped for easy plug-in (see illustration, below), and HDMI cable runs are limited to about 10 feet (3m).

If your video display has a DVI input and is HDCP-compliant, use an HDMI-to-DVI adapter (not included), and make a separate audio connection. Speaker Connections Speaker cables carry an amplified signal from the AVR's speaker terminals to each loudspeaker. They contain two wire conductors, or leads, that are differentiated in some way, such as with colors or stripes. The differentiation helps you maintain proper polarity, without which your system's low-frequency performance can suffer. Each speaker is connected to the AVR's speaker output terminals using two wires, one positive (+) and one negative (â).

Always connect the positive terminal on the speaker, which is usually colored red, to the positive terminal on the receiver, which is colored as indicated in the Connection Color Guide Table, above. The negative terminals on the speakers and the AVR are black. Your AVR uses binding-post speaker terminals that can accept bare-wire cables or banana plugs. Tighten Cap Banana plugs are inserted into the hole in the middle of the terminal cap, as shown below: A. tighten Cap B. Insert Banana Connector into Hole in Cap p 14 Digital Audio Connections â Coaxial Coaxial digital audio jacks are usually color-coded in orange. Although they look like standard RCA-type analog jacks, you should not connect coaxial digital audio outputs to analog inputs or vice versa. , Blu-ray Disc, DVD player, cable television box, HDTV tuner, satellite box, VCR, DVR). In addition to an audio connection as described above, make a video connection for each of these source devices. Make only one type of video connection for each device.

Digital Video Connections If you have already connected a source device to one of the AVR's HDMI input connectors, you have automatically made a video connection for that device, since the HDMI cable carries both digital audio and digital video signals. Analog Video Connections â Composite Video Digital Audio Connections â Optical Optical digital audio connectors are normally covered by a shutter to protect them from dust.



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The shutter opens as the cable is inserted. Optical input connectors are color-coded using a black shutter, while optical outputs use a gray shutter. Your AVR uses two types of analog video connections: composite video and component video. Composite video is the basic connection most commonly available. Both the chrominance (color) and luminance (intensity) components of the video signal are transmitted using a single cable. The jack is usually color-coded yellow and looks like an analog audio jack. Do not connect a composite video jack to an analog audio or coaxial digital audio jack, or vice versa. Analog Audio Connections Two-channel analog connections require a stereo audio cable, with one connector for the left channel (white) and one for the right channel (red).

These two connectors are attached to each other. Analog Video Connections Component Video Component video separates the video signal into three components: one luminance (Y) and two sub-sampled color signals (Pb and Pr) that are transmitted using three separate cables that are color-coded green (Y), blue (Pb) and red (Pr). Component video cables that join three separate green, blue and red connectors into a single cable are sold separately. For source devices that have both digital and analog audio outputs, you may make both connections. If you are going to be setting up a multizone system, remember that Zone 2 is an audio-only zone (the AVR does not have a Zone 2 video output).

Therefore, make analog connections for any audio source devices (such as a CD changer) that you will want available for listening in Zone 2 at all times. The analog connections also feed the analog record outputs. You may record materials from Blu-ray Disc recordings, DVDs or other copy-protected sources using only analog connections. Remember to comply with all copyright laws if you choose to make a copy for your own personal use. If your TV or video display has an HDMI connection, we recommend it as the best quality connection.

Your AVR converts composite and component analog video input signals to the HDMI format, upscaling them to high-definition 1080p resolution. Types of Home Theater System Connections RS-232 Connector Your AVR's RS-232 serial port may be connected to an external control system to allow it to transmit control commands to the AVR. The port is bidirectional so that the AVR can transmit status updates to the control device. Connecting and using the RS-232 port requires considerable technical knowledge and is best left to a professional custom installer. The AM antenna connector uses spring-clip terminals. After assembling the antenna as shown below, press the levers to open the connectors, insert the bare wires into the openings, and release the levers to secure the wires. The antenna wires are not polarized, so you can insert either wire into either connector. Network Connector The AVR's Network connector allows you to enjoy Internet radio or content from other DLNA-compatible devices that are connected to the same network. Ethernet cable to connect the AVR's RJ-45 connector to your home network. USB Port The AVR can play audio files from an Apple iOS device connected to the USB port, and allows you to control the iOS device via the AVR remote control.

The AVR can also play MP3 and WMA audio files from a USB device inserted into the USB port. Insert the connector or device into the USB port oriented so it fits all the way into the port. You may insert or remove the connector or device at any time; there is no installation or ejection procedure. The USB port on your AVR is also used to perform firmware upgrades. If an upgrade for the AVR's operating system is released in the future, you will be able to download it to the AVR using this port. Complete instructions will be provided at that time. IMPORTANT: Do not connect a PC or other USB host/controller to the AVR's USB port, or you may damage both the AVR and the other device. 16 Making Connections CAUTION: Before making any connections to the audio/video receiver, ensure that the AVR's AC cord is unplugged from the receiver and the AC outlet. Making connections with the receiver plugged in and turned on could damage the speakers. Connect Your Subwoofer Use a single RCA audio cable to connect the AVR's Subwoofer connector to your subwoofer as explained in Subwoofer Connections, on page 14.

NOTE: The AVR 3700 and AVR 370 provide connections for two subwoofers. See Manual Speaker Setup: Number of Speakers, on page XX, for information about activating the two subwoofer outputs. Consult your subwoofer's user manual for specific information about making connections to it. AVR 3700/AVR 370/AVR 370C AVR 2700/AVR 270/AVR 270C Connect Your Speakers After you have placed your loudspeakers in the room as explained in Place Your Speakers, on page 13, connect each speaker to its color-coded terminal on the AVR as explained in Speaker Connections, on page 14. Connect the speakers as shown in the illustration.

Connect Surround Back L/R Speakers -OR- Front Height L/R Speakers Here Use either connector Single RCA Audio Cable (not supplied) Powered Subwoofer Connect Your TV or Video Display If your TV has an HDMI connector: Use an HDMI cable (not included) to connect it to the AVR's HDMI Monitor Out connector. The AVR 3700 and AVR 370 provide HDMI connections for two TVs. You do not need to make any other connections to your TV from the receiver or from any of your video source components. AVR 2700/AVR 270/AVR 270C FHL FL C FR FHR AVR 3700/AVR 370/AVR 370C SR SL SBL SBR Use either connector HDMI Cable (not supplied) TV NOTE: If you installed front height speakers, connect them as shown for the SBL and SBR speakers. If your TV does not have an HDMI connector: Use a composite video cable (not included) to connect the AVR's Composite Monitor Out connector to your TV's composite video connector.

AVR Composite Monitor Out Connector TV Composite Video Cable (not supplied) NOTE: The HDMI connection to your TV is preferred. If you use the composite video connection to your TV, you will not be able to view the AVR's on-screen menus. 17 ENGLISH AVR Making Connections AVR Connect Your Audio and Video Source Devices Source devices are components where a playback signal originates, e. Your AVR has several different types of input connectors for your audio and video source devices: HDMI, component video, composite video, optical digital audio, coaxial digital audio and analog audio.

The connectors are not labeled for specific types of source devices; they are labeled numerically, so you can connect your devices according to your individual system's make-up. Your AVR's various source buttons have default assignments to different input connectors (listed in the Default Connector(s) column of the table below).



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For ease of setup, you should connect each source device to the connector where the corresponding default source button is assigned (e. g. , connect your Blu-ray Disc player to HDMI 1). Making Connections However, you can connect your source devices as you wish and re-assign any of the input connections to any of the Source Buttons listed in the table according to where you actually connect each of your source devices.

As you connect your various source devices, fill out the Connected Component column in the table it will make it easier for you to assign the various source buttons after you have completed making all of the connections. (You will make any changes to the source-button assignments and fill in the Assigned Connector(s) column later in the setup process.) Note: You cannot assign connectors to the Network, Radio and USB source buttons.

Source Button Disc Cable/Sat Game Media Server DVR TV Aux A (red) B (green) C (yellow) D (blue) Default Connector(s) HDMI 1 HDMI 2 HDMI 3 HDMI 4 HDMI 5 None/Optical Digital Audio 1 HDMI Front HDMI 6 HDMI 7 Composite Video 1/Analog Audio 1 Composite Video 2/Analog Audio 2 Assigned Connector(s) Connected Device Monitor Output Connector HDMI Out 1 HDMI Out 2 (AVR 3700/AVR 370 only) Composite Video Monitor Out Connected Device Record Output Connector Analog Audio Rec Out Connected Device Source Buttons and Assigned Connectors 18 Connect Your HDMI Devices If any of your source devices have HDMI connectors, using them will provide the best possible video and audio performance quality. Since the HDMI cable carries both digital video and digital audio signals, you do not have to make any additional audio connections for devices you connect via an HDMI cable. AVR HDMI Connectors Connect Your Composite Video Devices Use composite video connectors for video source devices that don't have HDMI or component video connectors. You will also need to make an audio connection from the source device to the receiver. AVR Analog Video Connectors HDMI Cable (not supplied) Composite Video Cable (not supplied) To Composite Video Output To HDMI Output Composite Video-Equipped Source Device Connect Your Optical Digital Audio Devices HDMI-Equipped Source Device NOTE: If you have HDMI devices (such as an Internet connection) already connected directly to your TV, you can feed their sound to the AVR via the HDMI Out connector's Audio Return Channel, and they will not require additional connections to the AVR. Connect Your Component Video Devices If any of your video source devices have component video connectors (and do not have HDMI connectors), using the component video connectors will provide superior video performance. You will also need to make an audio connection from the device to the receiver.

AVR Analog Video Connectors If your non-HDMI source devices have optical digital outputs, connect them to the AVR's optical digital audio connectors. NOTE: Make only one type of digital connection (HDMI, optical or coaxial) from each device. AVR Digital Audio Connectors Optical Digital Audio Cable (not supplied) To Optical Digital Audio Output Optical-Equipped Source Device Component Video Cable (not supplied) To Component Video Outputs Connect Your Coaxial Digital Audio Devices If your non-HDMI source device has a coaxial digital output, connect it to the AVR's coaxial digital audio connector. NOTE: Make only one type of digital connection (HDMI, optical or coaxial) from each device. AVR Digital Audio Connectors Component Video-Equipped Source Device Coaxial Digital Audio Cable (not supplied) To Coaxial Digital Audio Output Coaxial-Equipped Source Device 19 ENGLISH AVR Making Connections AVR Connect Your Analog Audio Devices Use the AVR's analog audio connectors for source devices that don't have HDMI or digital audio connectors.

NOTE: If you're installing a multizone system, make analog audio connections for any source devices you want to be able to listen to in Zone 2. Only analog sources are available in Zone 2. receiver Analog Audio Connectors AVR Analog Audio Recorder Connectors Connect Your Video Recorder Making Connections Connect an analog video recorder's video input connector to the AVR's Composite Monitor Out connector. You can record any composite video signal. To record the audio from the source device, connect the AVR's Analog Rec Out connectors to the analog video recorder's audio inputs.

NOTE: If you have connected the AVR's Composite Monitor Out video connector to your TV you cannot connect a VCR to the AVR for recording. AVR Analog Video Recorder Connectors Analog Audio/Video Cable (not supplied) Stereo Audio Cable (not supplied) To Stereo Analog Audio Output To Analog Audio/Video Record Inputs Analog Video Recording Device USB and iOS Devices Analog Source Device Connect Your Audio Recorders Connect an analog audio recorder's inputs to the AVR's analog audio Rec Out connectors. You can record any analog audio input signal. AVR Analog Audio Recorder Connectors USB Memory Stick Apple Cable (not supplied) Use the AVR's front-panel USB port to connect an iPod, iPhone or iPad using an Apple cable (not supplied) or to directly connect a USB memory stick. You can play audio files from the device or memory stick and use the AVR's remote to control playback. 5E cable (not supplied) to connect the AVR's Network connector to your home network to enjoy Internet radio and content from DLNA-compatible devices that are connected to the network. AVR Network Connector Install a Multizone System IMPORTANT SAFETY NOTE: Installing a multizone system typically requires running cables inside walls. Always comply with the appropriate safety codes when installing concealed wiring, particularly all applicable building codes. Failure to do so may present a safety hazard. If you have any doubt about your ability to work with electrical wiring, hire a licensed electrician or custom installer to install the multizone system.

NOTE: Only the following analog audio sources are available to Zone 2: the internal radio, an iPod/iPhone device or a USB memory device inserted in the AVR's USB port and up to two source devices connected to the rear-panel Analog Audio In 1 and 2 connectors. Your AVR offers two different methods of distributing audio to other areas in your home. Each requires different connections: A. Connect the Zone 2 speakers directly to the Assigned Amp Speaker Output connectors. Assign the Assigned Amp channels to power the Zone 2 speakers (see Manual Speaker Setup, on page 36). This method allows you to power a single pair of speakers for Zone 2. This method offers the benefit of reduced cost and complexity, but your home theater system will be limited to 5.1 channels the AVR will automatically downmix the playback of programs recorded in 6.



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5/5E Ethernet Cable (not supplied) AVR 3700/AVR 370 only: To Home Network and Internet If your home network is Wi-Fi®, attach the supplied Wi-Fi antenna to the AVR. You do not need to make a wired network connection.

Zone 2 Speakers Zone 2 Assigned Amp Speaker Connectors Main Room Speaker Wire (not supplied) Speaker Wire (not supplied) Connect the Radio Antennas Connect the supplied FM antenna to the AVR's FM 75 antenna connector. For the best reception, extend the FM antenna as far as possible. Bend and fold the base of the supplied AM antenna as shown and connect the antenna wires to the AVR's AM and Gnd connectors. (You can connect either wire to either connector.) Rotate the antenna as necessary to minimize background noise.

This method offers the benefit of retaining a 7.1-channel home theater in the main room simultaneously with multizone operation, although it does require an additional amplifier for Zone 2. We recommend that you place the Zone 2 amplifier in the same room as the AVR so that you can use a short length of stereo audio cable along with a long run of speaker wire to the remote room. A long run of stereo audio cable would increase the chance of signal degradation. Depending on your Zone 2 amplifier you can distribute the audio signal to a single pair of speakers or to several pairs placed in different rooms.

Making Connections Connect IR Equipment The AVR is equipped with Remote IR Input and Output connectors and a Zone 2 IR Input connector that let you remotely control the AVR in a variety of situations: When you place the AVR inside a cabinet or facing away from the listener, connect an external IR receiver, such as the optional Harman Kardon HE 1000, to the AVR's IR In jack. External IR Receiver AVR IR In Jack Zone 2 Speakers Zone 2 Main Room Speaker Wire (not supplied) Speaker Wire (not supplied) Stereo Audio Cable (not supplied) AVR and Source Devices Installed Inside of Cabinet Zone 2 Amplifier (not supplied) If any source devices are equipped with a compatible IR input, use a 1/8-inch (3.5mm) mini-plug interconnect cable (not included) to connect the AVR's IR Out jack to the source device's IR input. 5mm Mini-Plug Interconnect (not supplied) SL SR SBL SBR 22 To control more than one source device through the AVR's IR Remote Out connector, connect all sources in a daisy chain fashion, connecting each device's IR output to the next device's IR input, starting with the AVR. If you install a multizone system, connect an IR control device to the Zone 2 IR In connector for remote-room control of the multizone system, source devices and volume in the remote zone. External IR Receiver Zone 2 Speakers Connect to AC Power Connect the supplied AC power cord to the AVR's AC Input connector and then to a working AC power outlet. AVR AC Input Connector AC Power Outlet Power Cord (supplied) Zone 2 Main Room AVR If a source device is shared with the main listening area, any control commands issued to that source will also affect the main room. Connect the Trigger Output If your system has equipment that can be controlled by a DC trigger signal, connect it to the AVR's Trigger Out connector with a mono 1/8-inch (3.5mm) mini-plug interconnect cable. The AVR will supply a 12V DC (100mA) trigger signal at this connection whenever it is powered on.

AVR Mono 1/8-inch (3.5mm) Mini-Plug Interconnect (not supplied) Device with Trigger In Connector 23 ENGLISH AVR Making Connections, AVR Set Up the Remote Control Install the Batteries in the Remote Control Remove the remote control's battery cover, insert the four supplied AAA batteries as shown in the illustration, and replace the battery cover. Set Up the Remote Control 4. Aim the remote at the source device and use the remote's Number buttons to enter a code number from Step 1, above. A) If the device turns off, press the Source Selector button again to save the code. The Source Selector button will flash, and the remote will exit the Programming mode. B) If the device does not turn off, enter another code number. C) If you run out of code numbers for a device, you can search through all of the codes in the remote's library for devices of its type by pressing the remote's Up button repeatedly until the device turns off. When it does, press the Source Selector button to save the code. 5.

Check that other functions control the device correctly. Sometimes manufacturers use the same Power code for several models, while other function codes vary. Repeat this process until you've programmed a satisfactory code set that operates most of the device's functions. 6. If you searched through the remote's code library to find the code, you can find out which code number you have programmed by pressing and holding the Source Selector button to re-enter the Programming Mode.

Then press the remote's OK Button, and the Source Selector button will flash in the code sequence. One flash represents a 1, a double flash for a 2, a triple flash and so forth. a series of quick flashes represents a 0. Record the code number programmed for each device in Table A9 in the Appendix. NOTE: Remove the protective plastic from the AVR's front panel so it doesn't reduce the remote control's effectiveness.

Repeat Steps 3 to 6 for each source device you want to control with the AVR remote. Reassigning a Source Selector Button for a Different Device Type You can reassign a Source Button to control a different device type (for example, you can program the Media Server button to control a DVD player). 1. Turn on the source device you want the remote to control. 2. Look up the code numbers for the device in Tables A14 to A24 in the Appendix. Write all the applicable code numbers in a convenient place. 3. Press the Source Selector button you want to override and hold it for three seconds as it glows red, goes dark and glows red again. then release it.

The remote is now in the Programming mode. 4. Press the Source Selector button that corresponds to the source device's type (i. e., for a DVD player, press the Blu-ray button). The Source Selector button you pressed in Step 3 will flash once. 5. Aim the remote at the source device and use the remote's Number buttons to enter a code number from Step 2, above. A) If the device turns off, press the Source Selector button from Step 3 again to save the code. The Source Selector button will flash, and the remote will exit the Programming mode.

B) If the device does not turn off, enter another code number. C) If you run out of code numbers for a device, you can search through all of the codes in the remote's library for devices of its type by pressing the remote's Up button repeatedly until the device turns off.



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