



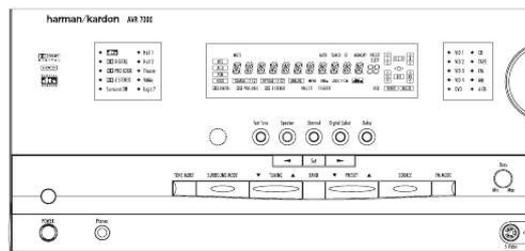
Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 7000. You'll find the answers to all your questions on the HARMAN KARDON AVR 7000 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 7000
User guide HARMAN KARDON AVR 7000
Operating instructions HARMAN KARDON AVR 7000
Instructions for use HARMAN KARDON AVR 7000
Instruction manual HARMAN KARDON AVR 7000

AVR 7000 Audio/Video Receiver

OWNERS MANUAL



harman/kardon
Power for the digital revolution.™



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>

Manual abstract:

While complex digital systems are hard at work within the AVR 7000 to make all of this happen, hookup and operation are simple. Color-keyed connections, a backlit, programmable remote control, and on-screen menus make the AVR 7000 easy to use. To obtain the maximum enjoyment from your new receiver, we urge you to take a few minutes to read through this manual. This will ensure that connections to speakers, source playback units and other external devices are made properly. In addition, a few minutes spent learning the functions of the various controls will enable you to take advantage of all the power the AVR 7000 is able to deliver. If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer. They are your best local source of information. **Description and Features** The AVR 7000 is among the most versatile and multi-featured A/V receivers available, incorporating a wide range of listening options. In addition to Dolby Digital and DTS decoding for digital sources, a broad choice of analog surround modes are available for use with sources such as CD, VCR, TV broadcasts and the AVR's own FM/AM tuner. Along with Dolby Pro Logic*, Dolby 3 Stereo and custom Hall and Theater modes, only Harman Kardon receivers offer Logic 7® to create a wider, more enveloping field environment and more defined flyovers and pans.

The AVR 7000 is also the only receiver that offers HDCD® decoding to provide the most realistic playback of CDs when a digital connection is used. Another Harman Kardon exclusive is VMaX™, which uses proprietary processing to create an open, spacious sound field even when only two front speakers are available. No matter how sophisticated your system components, the AVR 7000 is able to accommodate them. In addition to five inputs with audio, composite video and S-Video, the AVR 7000 features two component video inputs to ensure the utmost in picture quality. Audio is accommodated by two additional audio-only inputs, four digital audio inputs and two digital audio outputs.

A separate six-channel direct input is also available to ensure compatibility with future audio systems. Despite the wide range of inputs available, selecting between them is simple, using a backlit remote control that operates the AVR and up to seven additional devices. Codes may be programmed into the remote either from an extensive internal database or via a learning method. The AVR 7000's flexibility and power extend beyond your main home theater or listening room. The AVR includes a sophisticated multizone control system that allows you to select one source for use in the main room and a different one in a second room.

Both composite video and S-Video, as well as audio, are routed to the remote room location, with complete control over volume provided by a separate infrared control link. To make it easy to operate the AVR 7000 from a remote room, a separate Zone II remote is included. The AVR 7000's powerful amplifier uses traditional Harman Kardon high-current design technologies to meet the wide dynamic range of any program selection. Harman Kardon invented the high-fidelity receiver more than forty-seven years ago. With state-of-the-art circuitry and time-honored circuit designs, the AVR 7000 is one of the finest receivers ever offered by Harman Kardon. s Onboard Dolby Digital and DTS Decoding Using Crystal® Chip Technology s Harman Kardon's Exclusive Logic 7 and VMaX Modes s HDCD Decoding for Superb CD Playback s Component Video Switching s Multiple Coax and Optical Digital Audio Inputs and Outputs s Front Panel Input Jacks Switchable to Input or Output s Backlit Remote with Both Internal Codes and Learning Capability s On-Screen Menu and Display System s 6-Channel Direct Input, Preamp Output and Main Amp Input Jacks Permit Easy Expansion and Provide for Future Formats s Sophisticated Multizone Control System with Separate Remote CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION: To prevent electric shock, do not remove the grounding plug on the power cord, or use any plug or extension cord that does not have a grounding plug provided. Make certain that the AC outlet is properly grounded. Do not use an adapter plug with this product. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

3 INTRODUCTION Safety Information Important Safety Information Verify Line Voltage Before Use Your AVR 7000 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 depot 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 station. **CATV or Antenna Grounding** If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode.

NOTE TO CATV SYSTEM INSTALLER: This reminder is provided to call the CATV (Cable TV) system installer's attention to article 82040 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.



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>

Installation Location s To assure 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. s 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. s Do not place the unit directly on a carpeted surface. s Avoid installation in extremely hot or cold locations, or an area that is exposed to direct sunlight or heating equipment. s Avoid moist or humid locations. s Do not obstruct the ventilation slots on the top of the unit, or place objects directly over them. *Cleaning* When the unit gets dirty, wipe it with a clean, soft, dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts.

Avoid spraying insecticide near the unit. Moving the Unit Before moving the unit, be certain to disconnect any interconnection cords with other components, and make certain that you disconnect the unit from the AC outlet. *Important Information for the User* This equipment has been tested and found to comply with the limits for a Class-B digital device, pursuant to Part 15 of the FCC Rules. The limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio-frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that harmful interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: s Reorient or relocate the receiving antenna. s Increase the separation between the equipment and receiver. s Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. s Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept interference received, including interference that may cause undesired operation. NOTE: Changes or modifications may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment. *Unpacking* The carton and shipping materials used to protect your new receiver during signal is reached, the TUNED indicator U will illuminate in the Information Display \odot . To tune manually, tap the button lightly and note that the tuner will step up one frequency increment per button press.

When the button is held for a few seconds you will note that the unit will quickly search the frequency band. Release it once the fast tuning starts and the tuner will automatically scan for the next station with an acceptable signal and then stop. 9 *Tuner Band Selector*: Pressing this button will automatically switch the AVR to the Tuner mode. Pressing it again will switch between the AM and FM frequency bands. (See page 29 for more information on the tuner.

)) *Preset Stations Selector*: Press this button to select stations that have been entered into the preset memory. (See page 29 for more information on tuner programming.) ! *Input Source Selector*: Press this button to change the input by scrolling through the list of input sources. @ *FM Mode Selector*: Press this button to select Auto or Manual tuning. When the button is pressed so that the AUTO Indicator V lights, the tuner will search for the next station with an acceptable signal when the Tuning Selector 8xé is pressed. When the button is pressed so that the AUTO Indicator V is not lit, each press of the Tuning Selector 8xé will increase the frequency. (See page 29 for more information on using the tuner.) # *Bass Control*: Turn this control to modify the low frequency output of the left/right channels by as much as ± 10 dB. Set this control to a suitable position for your taste or room acoustics. \$ *Video 4 Input Jacks*: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players.

In normal use, they are an input that may be selected by pressing the Input Source Selector ! on the front panel, or the Video 4 Selector on either remote m ç. These jacks may also be configured as an audio/video output, that will make a dub of the currently selected source when connected to an external recorder or camcorder. To change the jacks from their default setting as an input to an output, use the Advanced Menu in the OSD system. (See page 31 for more information on using the Video 4 jacks as a record output.) % *Video 4 Status Indicator*: This indicator will normally be green to show that the Video 4 jacks are operating as an input source. When the jacks have been configured as an output, the indicator will turn red to show that they are being used for recording. (See page 31 for more information on using the Video 4 jacks.) ^ *Treble Control*: Turn this control to modify the high frequency output of the left/right channels by as much as ± 10 dB. Set this control to a suitable position for your taste or room acoustics. & *Balance Control*: Turn this control to change the relative volume for the front left/right channels.

NOTE: For proper operation of the surround modes this control should be at the midpoint or "12 o'clock" position. * *Volume Control*: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the AVR is muted, adjusting volume control will automatically release the unit from the silenced condition. (*Set Button*: When making choices during the setup and configuration process, press this button to enter the desired setting as shown in the Information Display \odot into the AVR 7000's memory. The set button may also be used to change the display brightness. (See page 31.) \odot *Input indicators*: A green LED will light in front of the input that is currently being used as the source for the AVR 7000. \odot *Delay*: Press this button to begin the sequence of steps required to enter delay time settings. (See pages 2021 for more information on delay times.) *Digital Input Selector*: When playing a source that has a digital output, press this button to select between the Optical \circ and Coaxial \circ Digital inputs.



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>

(See pages 2729 for more information on digital audio.) **O Information Display:** This display delivers messages and status indications to help you operate the receiver. (See pages 78 for a complete explanation of the Information Display.) **U Channel Select Button:** Press this button to begin the process of trimming the channel output levels using an external audio source. (For more information on output level trim adjustment, see page 29.) **U Speaker Select Button:** Press this button to begin the process of selecting the speaker positions that are used in your listening room. (See page 22 for more information on setup and configuration.) **U Test Tone Selector:** Press this button to begin the process of adjusting the channel output levels using the internal test tone as a reference. (For more information on output level adjustment, see page 23.) **i Surround Mode Indicators:** A green LED will light in front of the surround mode that is currently in use.

^ Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed. **6 FRONT PANEL CONTROLS** Front Panel Information Display X W V U T S R Q A P B C D E F G H I **I Theater Mode Indicator J Logic 7 Mode Indicators K DTS Mode Indicator L Preset Number/Sleep Timer M OSD Indicator N Night Mode Indicator O Multiroom Indicator P Speaker/Channel Input Indicators J K L M N O A Bitstream Indicators B Dolby Digital Indicator C Coaxial Source Indicators D Analog Dolby Surround Mode Indicators E Optical Source Indicators F Analog Input Indicator G Hall Mode Indicators H VMAx Mode Indicator A Bitstream™ Indicators:** When the selected input is a digital source, one of these indicators will light to display the specific type of signal in use. **B Dolby Digital Indicator:** This indicator illuminates when a Dolby Digital source is being played. **C Coaxial Source Indicators:** These indicators light to show when one of the two Coaxial Digital Inputs has been selected. **D Analog Dolby Surround Mode Indicators:** These indicators illuminate when one of the analog (matrix) Dolby Surround modes is in use. **E Optical Source Indicators:** These indicators light to show when one of the two Optical Digital Inputs has been selected. **F Analog Input Indicator:** This indicator lights when an analog input source has been selected. **G Hall Mode Indicators:** These indicators light when one of the Hall modes has been selected. **H VMAx Mode Indicator:** This indicator illuminates to show that the VMAx mode is in use.

I Theater Mode Indicator: This indicator illuminates to show that the Theater mode is in use. **J Logic 7 Mode Indicators:** These indicators illuminate when the Logic 7 mode is in use. **LOGIC 7C** appears for the Cinema ver- **Q Sleep Indicator R Preset Indicator S Memory Indicator T Stereo Indicator U Tuned Indicator V Auto Indicator W Main Information Display X Mute Indicator** speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and the two outer boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for that position.

(See page 22 for more information on configuring speakers.) The letters inside each of the center boxes display active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels being received at the digital input. When the letters flash, the digital input has been interrupted.

See page 28 for more information on the Channel Indicators. **Q Sleep Indicator:** This indicator lights when the Sleep function is in use. The numbers in the Preset/Sleep Number Indicators will show the minutes remaining before the AVR 7000 goes into the Standby mode. (See page 25 for more information on the Sleep function.) **R Preset Indicator:** This indicator lights when the tuner is in use to show that the Preset Number/Sleep Timer L is showing the station's preset memory number. (See page 29 for more information on tuner presets.) **S Memory Indicator:** This indicator flashes when entering presets and other information into the tuner's memory. **tion of Logic 7, LOGIC 7M** appears for the Music version of Logic 7. **K DTS Mode Indicator:** This indicator illuminates when a DTS-encoded source is playing. **L Preset Number/Sleep Timer:** When the tuner is in use, these numbers indicate the specific preset memory location in use.

(See page 29 for more information on preset stations.) When the Sleep function is in use, these numbers show how many minutes remain before the unit goes into the Standby mode. **M OSD Indicator:** When the OSD system is in use, this indicator lights to remind you that the other indicators in this display do not function when the On Screen Display is being used. **N Night Mode Indicator:** This indicator lights when the AVR 7000 is in the Night mode, which preserves the dynamic range of digital program material at low volume levels. **O Multiroom Indicator:** This indicator lights when the multiroom system is active. Note that it will remain lit when the multiroom system is in use even though the main room system is in the Standby mode and all other indicators are dark. (See page 33 for more information on the Multiroom system.) **P Speaker/Channel Input Indicators:** These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration. The left, center, right, right surround and left surround **7 FRONT PANEL INFORMATION DISPLAY** Front Panel Information Display **T Stereo Indicator:** This indicator illuminates when an FM station is being tuned in stereo. **U Tuned Indicator:** This indicator illuminates when a station is being received with sufficient signal strength to provide acceptable listening quality.

V Auto Indicator: This indicator illuminates when the tuner's Auto mode is in use. **W Main Information Display:** This display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of unit's operation. **X Mute Indicator:** This indicator illuminates to remind you that the AVR 7000's output has been silenced by pressing the Mute button **f I**. Press the Mute button again to return to the previously selected output level. **8 FRONT PANEL INFORMATION DISPLAY** Rear Panel Connections **j i h g f e d c b a** ° flfi > - ;TM £¢§ ¶ · ¸/¼< ; **AM Antenna TM FM Antenna £ 6-Channel Direct Inputs ¢ CD Inputs Component Video Outputs § Video 2 Component Video Inputs ¶ DVD Component Video Inputs · Tape Inputs ¢ Speaker Outputs , Tape Outputs / Amplifier Inputs ¼ Unswitched AC Accessory Outlet < Switched AC Accessory Outlets > AC Power Cord fi Subwoofer Output fl Preamp Outputs Digital Audio Outputs ° Coaxial Digital Inputs · Optical Digital Inputs a Remote IR Output b Multiroom IR Input c Remote IR Input d Multiroom Outputs e Video Monitor Outputs f Video 3 Inputs g Video 2 Inputs h Video 1 Outputs i Video 1 Inputs j DVD Inputs NOTE: For all video inputs and outputs f g h i j, the same number is used to indicate the audio, composite-video and S-Video connections related to that input.**



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>

This accounts for the same number appearing in more than one place on the rear-panel drawing. 9 REAR PANEL CONNECTIONS Rear Panel Connections j 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 the optional external FM antenna to this terminal. £ 6-Channel Direct Inputs: If an external digital audio decoder is used, connect the outputs of that decoder to these jacks. ¢ CD Inputs: Connect these jacks to the output of a compact disc player or CD changer. Component Video Outputs: Connect these outputs to the component video inputs of a video projector or monitor. When a source connected to one of the two Component Video Inputs §§ is selected the signal will be sent to these jacks. § Video 2 Component Video Inputs: Connect the Y/Cr/Cb component video outputs of a set top converter box or other video product to these jacks. ¶ DVD Component Video Inputs: Connect the Y/Cr/Cb component video outputs of a DVD player to these jacks. · Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder. º Speaker Outputs: Connect these jacks to the matching + or - terminals on your speakers. When making speaker connections, always make certain to maintain correct polarity by connecting the red (+) terminals on the AVR to the red terminals on the speaker and the black (-) terminals on the AVR to the black terminals on the speakers. (See page 15 for more information on speaker polarity.), Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder.

/ Amplifier Inputs: When the jumper pins that link the Preamp Outputs fl with these inputs are removed, these jacks may be used to connect an external source or the AVR7000's multiroom system to the internal amplifiers. (See page 17 for more information on using these connections.) º 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 7000 is on or off. < Switched AC Accessory Outlets: These outlets may be used to power any device that you wish to have turn on when the unit is turned on with the System Power Control switch 2. > AC Power Cord: Connect the AC plug to an unswitched AC wall output. fi Subwoofer Output: Connect this jack to the line-level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. fl Preamp Outputs: When the jumper pins that link the Amplifier Inputs / with these outputs are removed, these jacks may be connected to an external power amplifier. Digital Audio Outputs: Connect these jacks to the matching digital input connector on a digital recorder such as a CD-R or MiniDisc recorder.

° Coaxial Digital Inputs: Connect the coax digital output from a DVD player, HDTV receiver, LD player or CD player to these jacks. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source. · Optical Digital Inputs: Connect the optical digital output from a DVD player, HDTV receiver, LD player or CD player to these jacks. The signal may be either a Dolby Digital signal, a DTS signal or a standard PCM digital source. a Remote IR Output: This connection permits the IR sensor in the receiver to serve other remote controlled devices.

Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment. b Multiroom IR Input: Connect the output of an IR sensor in a remote room to this jack to operate the AVR 7000's multiroom control system. c Remote IR Input: If the AVR 7000's front-panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack. d Multiroom Outputs: Connect these jacks to the optional audio power amplifiers or video display devices to view and listen to the source selected by the multiroom system in a remote room.

e Video Monitor Outputs: Connect this jack 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. f Video 3 Inputs: Connect these jacks to the audio and video outputs of a TV tuner, Cable TV converter box, satellite receiver or another audio/video source. g Video 2 Inputs: Connect these jacks to the audio and video outputs of a TV Tuner, Cable TV converter box, satellite receiver or any other audio/video source. h Video 1 Outputs: Connect these jacks to the audio and video RECORD/INPUT jacks of a VCR. i Video 1 Inputs: Connect these jacks to the audio and video PLAY/OUT jacks of a VCR. j DVD Inputs: Connect the analog audio outputs and composite video output of a DVD or LD player to these jacks. 10 REAR PANEL CONNECTIONS Main Remote Control Functions a Program Indicator b AVR

Selector c CD/Tape/DVD Input Selectors d Power Off Button e Test Tone f Mute g / / º Buttons h Channel Select Button i Set Button j < Button k Digital Select l 6-Ch. Direct Input m Video Input Selectors n AM/FM Tuner Select o Tuner Mode p Memory Button q Numeric Keys r Macro 1/2 Buttons s OSD Button t Light Button u Direct/Macro 3 Button v Clear/Macro 4 Button w Preset Up/Down x Tuning Up/Down y Forward/Reverse Transport Buttons z Night Mode `Multi-Room 28 q Delay/Prev. Ch. 29 q > Button 30 q Speaker Select 31 q Surround Mode Selector 32 q Volume Up/Down 33 q Sleep Button 34 q Video Remote Selectors 35 q IR Transmitter Window 35 a ON harman kardon c e b d AVR SAT CD TV TAPE VCR DVD CBL 34 33 POWER f g i g k j h MUTE GUIDE CH.

TV TEST SLEEP CH. SURR. VOL. 32 31 30 29 MENU SPKR SET DIGITAL DELAY 28 l EXIT NIGHT VID 1 6 CH. PREV.CH. MULTI-ROOM `y z x VID 2 AM/FM m NOTE: The function names shown here are each button's feature when used with the AVR. Most buttons have additional functions when used with other devices. See page 38 for a list of these functions. VID 3 TUN-M DWN-TUNING-UP DWN-PRESET-UP n o p q r VID 4 MEMORY w 3 4 5 8 9 DIRECT 0 CLEAR M4 1 2 6 7 M1 M2 LIGHT M3 s t OSD u v AVR 7000 11 MAIN REMOTE CONTROL FUNCTIONS Main Remote Control Functions IMPORTANT

NOTE: The AVR 7000's remote may be programmed to control up to eight devices, including the AVR 7000.

Before using the remote, it is important to remember to press the Device Control Selector button b c that corresponds to the unit you wish to operate. In addition, the AVR 7000's remote is shipped from the factory to operate the AVR 7000 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.



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>

Before using the remote with other products, follow the instructions on pages 3445 to program the proper codes for the products in your system. It is also important to remember that many of the buttons on the remote take on different functions, depending on the product selected using the Device Control Selectors.

The descriptions shown here primarily detail the functions of the remote when it is used to operate the AVR 7000. (See page 38 for information about alternate functions for the remote's buttons.) a Program Indicator: This three-color indicator is used to guide you through the process of learning commands from a remote into the AVR's remote code memory. (See page 35 for information on learning IR codes.) b AVR Selector: Pressing this button will switch the remote so that it will operate the AVR's functions.

If the AVR is in the Standby mode, it will also turn the AVR on. c CD/Tape/DVD Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR 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. 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 b again to operate the AVR's functions with the remote. d Power Off Button: Press this button to place the unit 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. e Test Tone: Press this button to begin the sequence used to calibrate the AVR 7000's output levels. (See page 23 for more information on calibrating the AVR 7000.

) f Mute: Press this button to momentarily silence the AVR 7000 or TV set being controlled, depending on which device has been selected. When the AVR 7000 remote is being programmed to operate another device, this button is pressed with the Device Control Selector button b 34 to begin the programming process. (See page 34 for more information on programming the remote.) g /& Buttons: These are multi-purpose buttons. They will be used most frequently to select a surround mode. To change the surround mode, first press the SURR/CH & button 31 . Next press these buttons to scroll up or down through the list of surround modes that appear in the Information Display 2 .. These buttons are 3 also used to increase or decrease output levels when configuring the unit with either the internal test tone or an external source. They are also used to enter delay time settings after the Delay button 28 has been pressed.

h Channel Select Button: This button is used to start the process of setting the AVR 7000's output levels to an external source. Once this button is pressed, use the /& buttons g to select the channel being adjusted, then press the Set button i, followed by the /& buttons again, to change the level setting. (See page 23 for more information.) i Set Button: This button is used to enter settings into the AVR 7000's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment.

j < Button: This button is used to change the menu selection or setting during some of the setup procedures for the AVR. k Digital Select: Press this button to assign one of the digital inputs ° to a source. (See page 27 for more information on using digital inputs.) l 6-Ch. Direct Input: Press this button to select the component connected to the 6-Ch.

direct Input £ as the source m Video Input Selector: Press one of these buttons to select a video input as the listening and viewing source. n AM/FM Tuner Select: Press this button to select the AVR's tuner as the listening choice. Pressing this button when a tuner is in use will select between the AM and FM bands. o Tuner Mode: Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that the AUTO indicator V goes out, pressing the Tuning buttons x8 will move the frequency up or down in singlestep increments. When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception. (See page 29 for more information.) p Memory Button: Press this button to enter a radio station into the AVR 7000's preset memory. After pressing the button the MEMORY indicator S will flash; you then have five seconds to enter a preset memory location using the Numeric Keys q. (See page 29 for more information.

) q 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 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. r Macro 1/2 Buttons: These buttons are used to recall or enter the programming sequence for a preprogrammed Macro sequence. (See page 36 for more information on programming and using Macros.) s OSD Button: Press this button to activate the On Screen Display (OSD) system used to set up or adjust the AVR 7000's parameters. t Light Button: Press this button to activate the remote's built-in backlight for better legibility of the buttons in a darkened room. u Direct/Macro 3 Button: This button has two functions. Pressing it when the tuner is in use will start the sequence for direct entry of a station's frequency. After pressing the button simply press the proper Numeric Keys q to select a station. This button may also be used to store or recall a macro sequence.

(See page 29 for more information on the tuner, and page 36 for more information on programming and using Macros.) v Clear/Macro 4 Button: This button may be used to store and recall a macro; it may also be programmed for use with other devices. (See page 36 for more information on macros.) 12 MAIN REMOTE CONTROL FUNCTIONS Main Remote Control Functions w Preset Up/Down: When the tuner is in use, press these buttons to scroll through the stations programmed into the AVR 7000's memory.

When some source devices, such as CD players, VCRs and cassette decks, are selected using the Device Control Selectors cç, these buttons may function as chapter step or track advance. x Tuning Up/Down: When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the Tuner Mode button o@ has been pressed so that the AUTO indicator V is illuminated, pressing and holding either of the buttons for three seconds will cause the tuner to seek the next station with acceptable signal strength for quality reception. When the AUTO indicator V is NOT illuminated, pressing these buttons will tune stations in single-step increments. (See page 29 for more information.

) y Forward/Reverse Transport Buttons: These buttons do not have any functions for the AVR, but they may be programmed for the forward/reverse play operation of a wide variety of CD or DVD players, and audio or videocassette recorders.



[You're reading an excerpt. Click here to read official HARMAN](http://yourpdfguides.com/dref/1217816)

[KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)

<http://yourpdfguides.com/dref/1217816>

(See page 34 for more information on programming the remote.) z Night Mode: Press this button to activate the Night mode. This mode is available in specially encoded digital sources, and it preserves dialog (center channel) intelligibility at low volume levels. `Multi-Room: Press this button to activate the Multiroom system or to begin the process of changing the input or volume level for the second zone. (See page 33 for more information on the Multiroom system.) 28 Delay/Prev Ch.: Press this button to begin the process for setting the delay times used by the AVR 7000 when processing surround sound. After pressing this button, the delay times are entered by pressing the Set button i and then using the //A buttons g to change the setting. Press the Set button again to complete the process.

(See page 20 for more information.) 29 > Button: Press this button to change a 32 Volume Up/Down: Press these buttons to raise or lower the system volume.

33 Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 7000 will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF setting or selection when configuring many of the AVR's settings. 30 Speaker Select: Press this button to begin the process of configuring the AVR 7000's Bass Management System for use with the type of speakers used in your system. Once the button has been pressed, use the //A buttons g to select the channel you wish to set up. Press the Set button i and then select another channel to configure. When all adjustments have been completed, press the Set button twice to exit the settings and return to normal operation. (See page 22 for more information.)

) 31 Surround Mode Selector: Press this button to begin the process of changing the surround mode. After the button has been pressed, use the //A buttons g to select the desired surround mode. (See page 25 for more information.) Note that this button is also used to tune channels when the TV is selected using the Device Control Selector 34 . When the AVR 7000 remote is being programmed for the codes of another device, this button is also used in the "Auto Search" process.

(See page 34 for more information on programming the remote.) Note that this button is also used to change channels on your TV when the TV is selected using the Video Remote Selectors 34 . When the AVR 7000 remote is being programmed for the codes of another device, this button is also used in the "Auto Search" process. (See page 34 for more information on programming the remote.) 34 Video Remote Selectors: Press one of these buttons to use the remote to control the functions of the device shown on the button.

(For more information on programming the remote to operate these devices, see pages 3435.) NOTE: As any of these buttons is pressed, it will briefly flash red to confirm your selection. 35 IR Transmitter Window: Point this window towards the AVR 7000 when pressing buttons on the remote to make certain that infrared commands are properly received. 13 MAIN REMOTE CONTROL FUNCTIONS Zone II Remote Control Functions à Power Off: When used in the room where the AVR 7000 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 Multi IR jack b, this button turns the Multi-Room system on and off. Preset Up/Down Track Skip: When the AVR'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 player is selected, these buttons activate the forward or reverse track or chapter skip functions. © Disc Skip: When a compatible Harman Kardon CD or DVD changer has been selected, these buttons activate the Disc Skip function. Volume Up/Down: When used in the room where the AVR 7000 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 Multi IR Jack b, this button will raise or lower the volume in the remote room.

I Mute: When used in the room where the AVR 7000 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 Multi IR Jack b, this button will temporarily silence the feed to the remote room only. Press the button again to return to the previous volume level. à ç AVR Selector: Press this button to turn on the AVR. The input in use when the unit was last on will be selected. ç Input Selectors: When the AVR 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. Transport Controls: These buttons control the Play, Pause and Stop functions of compatible Harman Kardon CD, DVD and cassette players. Tuning Up/Down Fast Play: When the AVR's tuner is selected as the input source, these buttons will tune up or down through the frequencies of the chosen band. When a CD, DVD or cassette deck is selected, these buttons activate the Fast Play Forward or Fast Play Reverse functions.

© I à ç © I Power Off AVR Selector Input Selectors Transport Controls Tuning Up/Down Fast Play Preset Up/Down Track Skip Disk Skip Volume Up/Down Mute NOTE: The Zone II remote may be used in either the same room where the AVR 7000 is located, or it may be used in a separate room with an optional infrared sensor that is connected to the AVR 7000's Multi IR input jack b. When it is used in the same room as the AVR, it will control the functions of the AVR or any compatible Harman Kardon products in that room. When it is used in a separate room via a sensor connected to the Multi IR Jack b, the buttons for power, input source, volume, mute and the tuner will control the source and volume for the second zone, as connected to the Multi Out Jacks d. (See page 33 for complete information on using the Multi-Room system.) 14 ZONE II REMOTE CONTROL FUNCTIONS Installation and Connections System Installation After unpacking the unit, and placing it on a solid surface capable of supporting its weight, you will need to make the connections to your audio and video equipment.

Audio Equipment Connections We recommend that you use high-quality interconnect cables when making connections to source equipment and recorders to preserve the integrity of the signals. When making connections to audio source equipment or speakers it is always a good practice to unplug the unit from the AC wall outlet. This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them. 1. Connect the analog output of a CD player to the CD inputs é.



[You're reading an excerpt. Click here to read official HARMAN](http://yourpdfguides.com/dref/1217816)

[KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)

<http://yourpdfguides.com/dref/1217816>

NOTE: When the CD player has both fixed and variable audio outputs it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or so high that the signal is distorted. 2. Connect the analog Play/Out jacks of a cassette deck, MD, CD-R or other audio recorder to the Tape In jacks . Connect the analog Record/In jacks on the recorder to the Tape Out jacks , on the AVR 7000. 3. Connect the output of any digital sources to the appropriate input connections on the AVR 7000 rear panel. Note that the Optical and Coaxial digital inputs ° may be used with a Dolby Digital or DTS source or the output of a conventional CD or LD player's PCM (S/P-DIF) output. 4. Connect the Coaxial or Optical Digital Outputs on the rear panel of the AVR to the matching digital input connections on a CD-R or MiniDisc recorder. 5.

Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM and GND screw terminals j . 6. Connect the supplied FM antenna to the FM (75 ohm) connection TM. The FM antenna may be an external roof antenna, an inside powered or wire lead antenna or a connection from a cable TV system. Note that if the antenna or connection uses 300-ohm twin-lead cable, you must use the 300-ohm-to-75-ohm adapter supplied with the unit to make the connection. 7. Connect the front, center and surround speaker outputs a to the respective speakers. To assure that all the audio signals are carried to your speakers without loss of clarity or resolution, we suggest that you use high-quality speaker cable. Many brands of cable are available and the choice of cable may be influenced by the distance between your speakers and the receiver, the type of speakers you use, personal preferences and other factors. Your dealer or installer is a valuable resource to consult in selecting the proper cable. Regardless of the brand of cable selected, we recommend that you use a cable constructed of fine, multistrand copper with a gauge of 14 or smaller. Remember that in specifying cable, the lower the number, the thicker the cable. Cable with a gauge of 16 may be used for short runs of less than ten feet. We do not recommend that you use cables with an AWG equivalent of 18 or higher due to the power loss and degradation in performance that will occur.

Cables that are run inside walls should have the appropriate markings to indicate listing with UL, CSA or other appropriate testing agency standards. Questions about running cables inside walls should be referred to your installer or a licensed electrical contractor who is familiar with the NEC and/or the applicable local building codes in your area. When connecting wires to the speakers, be certain to observe proper polarity. Remember to connect the "negative" or "black" wire to the same terminal on both the receiver and the speaker. Similarly, the "positive" or "red" wire should be connected to like terminals on the AVR 7000 and speaker.

NOTE: While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase and optimal performance, consult the identification plate on your speaker or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer. We also recommend that the length of cable used to connect speaker pairs be identical. For example, use the same length piece of cable to connect the front-left and front-right or surround-left and surround-right speakers, even if the speakers are a different distance from the AVR 7000. 8. Connections to a subwoofer are normally made via a line level audio connection from the Subwoofer Output fi 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. Video Equipment Connections Video equipment is connected in the same manner as audio components.

Again, the use of highquality interconnect cables is recommended to preserve signal quality. 1. Connect a VCR's audio and video Play/Out jacks to the Video 1 In jacks i on the rear panel. The Audio and Video Record/In jacks on the VCR should be connected to the Video 1 Out jacks h on the AVR 7000. 2. Connect the analog audio and video outputs of a satellite receiver, cable TV converter or television set or any other video source to the Video 2 g or Video 3 f jacks. 3. Connect the analog audio and video outputs of a DVD or laser disc player to the DVD jacks j. 4. Connect the digital audio outputs of a DVD player, satellite receiver, cable box or HDTV converter to the appropriate Optical or Coaxial Digital Inputs °.

5. Connect the Video Monitor Out e jacks on the receiver to the composite or S-Video input of your television monitor or video projector. 15 INSTALLATION AND CONNECTIONS Installation and Connections 6. If your DVD player and monitor both have component video connections, connect the component outputs of the DVD player to the DVD Component Video Inputs ¶. Note that even when component video connections are used the audio connections should still be made to either the analog DVD Audio Inputs j or any of the Coaxial or Optical Digital Input jacks °.

7. If another component video device is available, connect it to the Video 2 Component Video Input jacks §. The audio connections for this device should be made to either the Video 2 Input jacks g or any of the Coaxial or Optical Digital Input jacks °. 8. If the component video inputs are used, connect the Component Video Output to the component video inputs of your TV, projector or display device.

Video Connection Notes: · When the component video jacks are used, the on-screen menus will not be visible. You must switch to the standard composite or SVideo input on your TV to view those menus. · The AVR 7000's component video system is designed for standard video rate (NTSC/480i) video from DVD players and similar devices. While it may operate with high definition signals, the quality may be slightly less than with a direct connection. · The AVR 7000 will accept either standard composite, S-Video or Y/Cr/Cb component video signals. However, it will not convert composite or S signals to component video. · Component or Composite video signals may only be viewed in their native formats. However, S-Video signals will be converted to standard, composite video, and are viewable through the Composite Video Monitor Output e. System and Power Connections The AVR 7000 is designed for flexible use with multiroom systems, external control components and power amplifiers.



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>

Main Room Remote Control Extension If the receiver is placed behind a solid or smoked glass cabinet door, the obstruction may prevent the remote sensor from receiving commands.

In this event, an optional remote sensor may be used. Connect the output of the remote sensor to the Remote IR Input jack c. If other components are also prevented from receiving remote commands, only one sensor is needed. Simply use this unit's sensor or a remote eye by running a connection from the Remote IR Output jack a to the Remote IR Input jack on Harman Kardon or other compatible equipment. Multiroom IR Link The remote room IR receiver should be connected to the AVR 7000 via standard coaxial cable. Plug the IR connection cable into the Multiroom IR Input jack b on the AVR 7000's rear panel. If other Harman Kardon compatible source equipment is part of the main room installation, the Remote IR Output jack a on the rear panel should be connected to the IR IN jack on the CD player or cassette deck. This will enable the remote room location to control source equipment functions in addition to the remote room input and volume. **NOTE:** All remotely controlled components must be linked together in a daisy chain. Connect the IR OUT jack of one unit to the IR IN of the next to establish this chain.

Multiroom Audio/Video Connections Depending on the distance from the AVR 7000 to the remote room, two options (A and B) are available for audio connection: A. Use high-quality, shielded audio interconnect cable from the AVR 7000's location to the remote room. At the remote room, connect the interconnect cable to a stereo power amplifier. The amplifier will be connected to the room's speakers. No volume control is required, as the AVR 7000 and the remote IR link will provide that function.

At the AVR 7000, plug the audio interconnect cables into the Multi-Room Output jacks d on the AVR 7000's rear panel. NOTE: The remote power amplifier must have signal sensing capability or be left on constantly to assure automatic operation at the remote room. B. Place the amplifier that will provide power to the remote location speakers in the same room as the AVR 7000, and connect the Multiroom Output jacks d on the rear panel of the AVR to the audio input of the remote room amplifier. Use the appropriate speaker wire to connect the optional power amplifier to the remote speakers.

High-quality wire of at least AWG14 is recommended for long multiroom connections. The AVR 7000's multiroom system is also capable of sending either S-Video or standard composite video to the remote room location. Connect the video feeds for the remote location to the Multiroom Output d video jacks. Note that standard S-Video cables may not provide acceptable signal quality when used for runs longer than 35 feet. Consult your dealer or installer for additional cable options for S-Video applications. When running longer lengths of composite video cable for multi-room applications, we recommend that dual shield or quad shield RG-6 cable be used. IMPORTANT NOTE: Any cables run inside walls should be CL3/FT4 rated, or carry any other certification that is required by the NEC or state and local building and electrical codes. To avoid interference, audio and speaker cables should not be parallel to, or run in the same conduits or path with, AC cables. If you have any questions about multiroom wiring, consult your dealer, custom installer or low-voltage electrical contractor. 16 INSTALLATION AND CONNECTIONS Installation and Connections External Audio Power Amplifier Connections If desired, the AVR 7000 may be connected to optional, external audio power amplifiers or used with equalizers or speaker systems that require connection between the preamp and amplifier sections of a receiver.

To make these connections, remove the jumpers that connect the Preamp Out jacks fl and Amplifier In jacks / for the channels to be used with external devices. Store the jumpers in a safe place so that the AVR may be used in its normal mode at a future date, if desired. When an external amplifier is used, connect the Preamp Out jacks fl to the inputs on the amplifier. When an equalizer or speaker processor is used, connect the Preamp Out jacks fl to the inputs of the processor, and connect the outputs of the processor back to the Amplifier In jacks / on the AVR. Note that when external amplifiers or devices are used, the volume control is still controlled by the AVR, although additional volume controls on the external device may impact the volume settings and output levels from the AVR. External Audio Decoder Connection To provide for ultimate flexibility, the AVR 7000 may be used in conjunction with optional, external decoders for digital audio systems other than the AVR 7000's own built-in Dolby Digital and DTS decoding system or with DVD players using the DVD Audio Format. If an external decoder is used, connect the output jacks of the decoder to the 6-Channel Direct inputs £, making sure to match channels. These jacks may also be used for connections to devices such as DVD players or High Definition Television (HDTV) sets or decoders that feature built-in digital surround decoders. Although the digital decoding system in the AVR 7000 will typically provide audio performance that is superior to other decoders, you may use these jacks to provide an additional 6-channel input for connection to a DVD player or HDTV set with a built-in decoder and discrete 6-channel analog outputs. AC Power Connections This unit is equipped with three accessory AC outlets.

They may be used to power accessory devices, but they should not be used with highcurrent draw equipment such as power amplifiers. The total power draw to each outlet may not exceed 100 watts. The Switched < outlets will receive power only when the unit is on. This is recommended for devices that have no power switch or a mechanical power switch that may be left in the "ON" position. NOTE: Many audio and video products go into a Standby mode when they are used with switched outlets, and cannot be fully turned on using the outlet alone without a remote control command.

The Unswitched ⓧ outlet will receive power as long as the unit is plugged into a powered AC outlet. Finally, when all connections are complete, plug the power cord into a nonswitched 120-volt AC wall outlet. You're almost ready to enjoy the AVR 7000! 17 INSTALLATION AND CONNECTIONS System Configuration When all audio, video and system connections have been made, there are a few configuration adjustments that must be made. A few minutes spent to correctly configure and calibrate the unit will greatly add to your listening experience. Speaker Selection and Placement The placement of speakers in a multichannel home-theater system can have a noticeable impact on the quality of sound reproduced.

No matter which type or brand of speakers is used, the same model or brand of speaker should be used for the front left, center and front right speakers.



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>

This creates a seamless front soundstage and eliminates the possibility of distracting sonic disturbances that occur when a sound moves across mismatched front channel speakers. Speaker Placement Depending on the type of center channel speaker in use and your viewing device, place the center speaker either directly above or below your TV, or in the center behind a perforated front projection screen. Once the center channel speaker is installed, position the left front and right front speakers so that they are as far away from one another as the center channel speaker is from the preferred listening position. Ideally, the front channel speakers should be placed so that their tweeters are no more than 24" above or below the tweeter in the center channel speaker. Depending on the specifics of your room acoustics and the type of speakers in use, you may find that imaging is improved by moving the front left and front right speakers slightly forward of the center channel speaker. If possible, adjust all front loudspeakers so that they are aimed at ear height when you are seated in the listening position. Using these guidelines, you'll find that it takes some experimentation to find the correct location for the front speakers in your particular installation. Don't be afraid to move things around until the system sounds correct. Optimize your speakers so that audio transitions across the front of the room sound smooth, and that sounds from all speakers appear to arrive at the listening position at the same time (without delay from the center speaker compared to the left and right speakers.

) Surround speakers should be placed on the side walls of the room, at or slightly behind the listening position. The center of the speaker should face into the room. The speakers should be located so that the bottom of the cabinet is at least two feet higher than the listeners' ears when the listeners are seated in the desired area. If side wall mounting is not practical, the speakers may be placed on a rear wall, behind the listening position. Again, they should be located so that the bottom of the cabinet is at least two feet higher than the listeners' ears. The speakers should be no more than six feet behind the rear of the seating area. Subwoofers produce nondirectional sound, so they may be placed almost anywhere in a room. Actual placement should be based on room size and shape and the type of subwoofer used. One method of finding the optimal location for a subwoofer is to begin by placing it in the front of the room, about six inches from a wall, or near the front corner of the room. Another method is to temporarily place the subwoofer in the spot where you will normally sit, and then walk around the room until you find a spot where the subwoofer sounds best.

Place the subwoofer in that spot. You should also follow the instructions of the subwoofer's manufacturer, or you may wish to experiment with the best location for a subwoofer in your listening room. Center Front Speaker No more than 24" Left Front Speaker Right Front Speaker A) Front Channel Speaker Installation with Direct-View TV Sets or Rear-Screen Projectors TV or Projection Screen Left Front Speaker Center Front Speaker Right Front Speaker No more than 6 feet when rear-mounted speakers are used Optional Rear-Wall Mounting B) The distance between the left and right speakers should be equal to the distance from the seating position to the viewing screen. You may also experiment with placing the left and right speakers slightly forward of the center speaker. At least 6 inches from ceiling At least 2 feet 18 SYSTEM CONFIGURATION System Configuration System Setup Once the speakers have been placed in the room and connected, the remaining steps in the setup process are to program the AVR 7000's bass management system for the type of speakers used in your system, calibrate the output levels, and set the delay times used by the surround sound processor.

You are now ready to power up the AVR 7000 to begin these final adjustments. 1. Plug the Power Cable > into an unswitched AC outlet. 2. Press the Main Power Switch I in until it latches and the word "OFF" on the top of the switch disappears inside the front panel.

Note that the Power Indicator 3 will turn amber, indicating that the unit is in the Standby mode. 3. Install the four supplied AAA batteries in the remote as shown. Be certain to follow the (+) and (-) polarity indicators that are on the bottom of the battery compartment. IMPORTANT NOTE: When viewing the displays on a projection TV it is important that they not be left on the screen for an extended period of time. As with any video display, but particularly with projectors, constant display of a static image such as these menus or video game images may cause the image to be permanently "burned into" the CRT. This type of damage is not covered by the AVR 7000 warranty and may not be covered by the projector TV set's warranty. The AVR 7000 has two on-screen display modes, "Semi-OSD" and "Full-OSD." When making configuration adjustments, it is recommended that the Full-OSD mode be used. This will place a complete status report or option listing on the screen, making it easier to view the available options.

The Semi-OSD mode uses one-line displays only. Making Configuration Adjustments The full OSD system is always available by pressing the OSD button s.

When this button is pressed the main AUDIO SETUP menu (Figure 1) will appear, and adjustments are made from the individual menus. The semiOSD system is also available as a system default, although it may be turned off by using the ADVANCED SELECT menu. (See page 32.) With the semi-OSD system, you may make adjustments directly, by pressing the buttons on the front panel or remote control for the specific parameter to be adjusted. For example, press the Speaker button 30 2 5 to set the speaker configuration, etc. * I S S O C M A E N U P U H U D X P R E T A L V I U R A P N T A T A U D I O T O K U N I N S E T N D R S A D L A R O O E D U S E J D M S E T U P P E T U J * on screen display will show a single line of text with the current menu selection. That selection will also be shown in the Main Information Display W. To use the full OSD menu system, press the OSD button s.

When the menu is on the screen, press the /& buttons g until the on-screen > cursor is next to the item you wish to adjust, and then press the Set button i to adjust that item. Note that the menus will remain on the screen for 20 seconds, and then they will "time-out" and disappear from the screen. The time-out may be increased to as much as 50 seconds by going to the ADVANCED SELECT menu, and changing the item titled FULL OSD TIME OUT. Setting the System Configuration Memories The AVR 7000 features an advanced memory system that enables you to establish different configurations for the speaker configuration, digital input, surround mode, delay times, crossover frequency and output levels for each input source.



[You're reading an excerpt. Click here to read official HARMAN KARDON AVR 7000 user guide](http://yourpdfguides.com/dref/1217816)
<http://yourpdfguides.com/dref/1217816>