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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 100. You'll find the answers to all your questions on the HARMAN KARDON AVR 100 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 100
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harman/kardon

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Manual abstract:

The AVR 100 has been custom designed to provide all the excitement and detail of movie sound tracks and every nuance of musical selections. With onboard Dolby* Digital, the AVR 100 delivers six discrete channels of audio that take advantage of the digital sound tracks from the latest DVD and LD movies and Digital Television (DTV/HDTV) broadcasts. While complex digital systems are hard at work within the AVR 100 to make all of this happen, hookup and operation are simple. Color-keyed connections and a programmable remote control make the AVR 100 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 100 is able to deliver. If you have any questions about this product, its installation or its operation, please contact your dealer or custom installer. They are your best local source of information. Description and Features The AVR 100 is a full-featured A/V receiver, incorporating a wide variety of listening options.

In addition to Dolby Digital decoding, Dolby Pro Logic* and Dolby 3 Stereo are available for compatibility with the tens of thousands of movies and television programs encoded with analog surround information. In addition, specially programmed Theater and Hall modes are available to enhance the enjoyment of conventional two-channel stereo recordings. A total of four audio/video inputs, as well as three additional audio-only inputs, are selected through a learning remote control and an easy-to-read front-panel display. The AVR 100'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-five years ago.

With state-of-the-art circuitry and time-honored circuit designs, the AVR 100 is one of the finest receivers ever offered by Harman Kardon. s Onboard Dolby Digital Decoding s Coax and Optical Digital Inputs s Programmable Remote Control s Composite Video Switching s 6-Channel Direct Input for use with external surround decoders or DVD-Audio 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 100 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 with cords 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. 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.



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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 shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move, or should the unit ever need repair. To minimize the size of the carton in storage, you may wish to flatten it. This is done by carefully slitting the tape seams on the bottom and collapsing the carton. Other cardboard inserts may be stored in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag.

*If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping protection are recyclable. Please respect the environment and discard those materials at a local recycling center. 4 SAFETY INFORMATION Front-Panel Controls 36 35 , ~ ^ Volume Speaker COAX DIGITAL Channel Dig. @ @OFF Mute 1 Power Phones Bass Treble Balance VIDEO 3 2 Min Max Min Max L R Video L Audio R 3 4 9)!@ # \$% ^ & 5 6 7 Ò Ú Û Ü Ý * (Ó Ô 1 Main Power Switch 2 System Power Control 3 Power Indicator 4 Headphone Jack 5 Bass Control 6 Treble Control 7 Balance Control 8 Video 3 Inputs 9 Sleep Button) Tape Input Selector ! CD Input Selector @ DVD Input Selector # Video Input Selector \$ 6-Channel Selector % AM/FM Button ^ Tuning Selector & Preset Scan * Preset Stations Selector (Tuner Mode Ó Dolby Digital Selector Ô Dolby Pro Logic Selector Ò Dolby 3 Stereo Selector Ò Hall Mode Selector Ú Theater Mode Selector & Ucital surround mode when listening to a program that carries Dolby Digital information. (See pages 2022 for more information on surround modes and digital audio.*

) Ô Dolby Pro Logic Selector: Press this button to select the Dolby Pro Logic surround mode when listening to an analog program that is encoded with surround-sound information. (See page 2022 for more information on surround modes.) Dolby 3 Stereo Selector: Press this button to select the Dolby 3 Stereo listening mode. This mode is used primarily when a center channel speaker, but no surround speakers, is installed. (See pages 21 for more information on surround modes.

) Ò Hall Mode Selector: Press this button to activate the Hall mode as an alternative surround mode when stereo sources are in use. This mode provides the reverberant atmosphere of a medium-sized concert hall. Ú Theater Mode Selector: Press this button to activate the Theater mode as an alternate surround mode when stereo sources are in use. Û Test Tone Button: Press this button to begin the process of setting the AVR 100's output levels. When this button is pressed, a test tone will replace the listening source, and circulate among the various output channels at a three-second interval. The Information Display 35 will show the location of the channel where the test tone noise should be heard. (See page 17 for complete information on setting the output levels.) Ü Surround Off: Press this button to turn off all surround processing and to listen to a program in traditional stereo from the left-front and right-front speakers only. i Mute: Press this button to momentarily silence the speaker and headphone outputs of the AVR 100. ^ Volume Control: Turn the knob clockwise to increase volume, counterclockwise to decrease the volume.

If the AVR is muted, adjusting volume control will automatically release the unit from the silenced condition. ~ Delay: Press this button to begin the sequence of steps required to enter delay time settings. (See pages 1718 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 fi and Coaxial > Digital inputs. (See pages 2022 for more information on digital audio.) 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 3 ,, into the 5 AVR 100's memory. , Channel Trim Button: Press this button to trim the output level settings using an input source as the program material. (See page 23 for complete information on trimming the output levels.) 33 Speaker Select Button: Press this button to begin the process of selecting the speaker positions that are used in your listening room. (See pages 1618 for more information on setup and configuration.

) 34 Selector Buttons: When you are establishing the AVR 100's configuration settings, use these buttons to select between the choices available, as shown in the Information Display 3 ,. 5 35 Information Display: This display delivers messages and status indications to help you operate the receiver. (See page 7 for a complete explanation of the Information Display.) 36 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.

To cancel the Sleep timer setting, press and hold the button for two seconds and then release it.) Tape Selector: Press this button to select the device connected to the Tape In jacks - as the listening source. ! CD: Press this button to select the device connected to the CD Input jacks ¶ as the listening source.



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@ DVD Input Selector: Press this button to select the device connected to the DVD Input jacks § as the listening and viewing source. # Video Input Selectors: Press one of these buttons to select a source connected to the rear panel Video inputs fl , or the front panel Video 3 input 8.

§ 6-Channel Direct Selector: Press this button to select the output of an optional, external 6-channel decoder connected to the 6-Ch Direct inputs - as the listening source. % AM/FM: Press this button to select the tuner as the AVR 100's input source. When it is first pressed the last station tuned will be heard. Press it again to change between AM and FM bands. ^ Tuning Button: Press the left side of the button to tune lower frequency stations and the right side of the button to tune higher frequency stations. When a station with a strong signal is reached, the TUNED indicator M will illuminate in the Information Display 35 . To tune manually, tap the button lightly and note that the tuner will step up one frequency 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 6 FRONT PANEL CONTROLS Front-Panel Information Display Q PO N ML K J I H A B C D E G Coax Source Indicators H Preset Number I Preset Indicator J Memory Indicator K Stereo Indicator L Mono Indicator F G M Tuned Indicator N Main Information Display O Mute Indicator P Sleep Mode Indicator Q Night Mode Indicator A Dolby Digital Indicator B Dolby Pro Logic Indicator C Dolby 3 Stereo Indicator D Hall Mode Indicator E Theater Mode Indicator F Optical Source Indicator A Dolby Digital Indicator: This indicator illuminates when a Dolby Digital source is being played. B Dolby Pro Logic Indicator: This indicator illuminates when the AVR is in the Dolby Pro Logic mode.

C Dolby 3 Stereo Indicator: This indicator illuminates when the AVR is in the Dolby 3 Stereo mode. D Hall Mode Indicator: This indicator illuminates when the Hall mode is in use. E Theater Mode Indicator: This indicator illuminates when the Theater mode is in use. F Optical Source: This indicator illuminates when a digital source is in use via a connection to the Optical Digital input fi. G Coax Source Indicator: This indicator illuminates when a digital source is in use via a connection to either of the Coaxial Digital inputs >. H Preset Number: This two-digit display indicates the station preset number that is currently in use or that is being entered. I Preset Indicator: This indicator illuminates when a station previously entered into the preset memory is tuned. The number that appears below the indicator is the preset station's memory position. J Memory: This indicator flashes when entering presets and other information into the tuner's memory. K Stereo Indicator: This indicator illuminates when an FM station is being tuned in stereo. L Mono Indicator: This indicator illuminates when the tuner has been placed in the monaural mode by pressing the Tuner Mode button f (. Set the tuner for mono listening to reduce noise and improve the quality of distant stereo signals. M Tuned Indicator: This indicator illuminates when a station is being received with sufficient signal strength to provide acceptable listening quality. N Main Information Display: This display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of the AVR's operation. O Mute: This indicator illuminates to remind you that the AVR 100's output has been silenced by pressing the Mute button i 32 .

Press the Mute button again to return to the previously selected output level. P Sleep Indicator: This indicator is illuminated when the Sleep function is in use. The number that appears above the indicator is the number of minutes remaining before the AVR 100 will return to the Standby mode. Q Night Mode Indicator: This indicator lights when the AVR 100 is in the Night mode, which preserves the dynamic range of digital program material at low volume levels. 7 FRONT-PANEL INFORMATION DISPLAY Rear-Panel Connections · R L ° R-AUDIO-L REC.

OUT fl VIDEO fi > 6 C H. ANTENNA FRONT VIDEO 1 PLAY IN D I R E C T I N DIGITAL INPUT OPTICAL SURR. VIDEO 2 IN ; TM £ AM LOOP SUB WOOFER CENTER DVD IN COAX. 1 FM 75 SUB WOOFER OUT CD IN VIDEO MON. OUT SPEAKERS 8 Ohms COAX. 2 AC 120V 60Hz SWITCHED 100W 1A MAX REC. OUT TAPE PLAY IN IN 450W ¢ OUT REMOTE CONTROL SURR. RIGHT FRONT RIGHT CENTER FRONT LEFT SURR. LEFT SWITCHED 100W 1A MAX § ¶ ; AM Antenna TM FM Antenna £ Remote IR Input ¢ Remote IR Output Subwoofer Output § DVD Inputs ¶ CD Inputs · Tape Inputs ¸, ¸ Tape Outputs , Video Monitor Output / Speaker Output Terminals º Switched AC Outlet < AC Power Cord > Coax Digital Inputs fi Optical Digital Input fl Video 2 Inputs / º < Video 1 Inputs ° Video 1 Outputs · 6-Channel Direct Inputs 8 REAR-PANEL CONNECTIONS Rear-Panel Connections ; AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the antenna.

TM FM Antenna: Connect the supplied indoor or an optional external FM antenna to this terminal. £ Remote IR Input: If the AVR 100's frontpanel 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. ¢ 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 compatible equipment. 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. § DVD Inputs: Connect the analog audio outputs and composite video output of a DVD or LD player to these jacks. ¶ CD Inputs: Connect these jacks to the output of a compact disc player or CD changer. · Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder. ¸ Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder. , Video Monitor Output: Connect this jack to the composite video input of a TV monitor or video projector to view the output of any standard video source selected by the receiver's video switcher. / Speaker Terminals: Connect these terminals to the appropriate speakers, following the designations shown. NOTE: When making connections to the Speaker Terminals always be certain to maintain correct polarity between the speaker's terminals and those on the AVR by connecting red (+) terminals to red, and black () terminals to black.



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(See page 13 for more information on speaker polarity.)

) **Switched AC Outlet:** This outlet 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. **NOTE:** The power consumption of the device plugged into this outlet should not exceed 100 watts. < **AC Power Cord:** Connect the AC plug to a nonswitched AC wall outlet. > **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 or a standard PCM digital source.

Optical Digital Input: Connect the optical digital output from a DVD player, HDTV receiver, LD player or CD player to this jack. The signal may be either a Dolby Digital signal or a standard PCM digital source. **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. **Video 1 Inputs:** Connect these jacks to the audio and video PLAY/OUT jacks of a VCR. **Video 1 Outputs:** Connect these jacks to the audio and video RECORD/IN jacks of a VCR. **6-Channel Direct Inputs:** If an external digital audio decoder is used, connect the outputs of that decoder to these jacks. **REAR-PANEL CONNECTIONS Remote Control Functions** a Device Selectors b AM/FM Tuner Select c Main Power-Off Button d Sleep Button e Night Mode/Dim Switch f FM Tuner Mode Button g Disc-Skip Button h DVD Function Buttons i Play/Up Button j Title/CDP Button k Stop/Enter Button l Tune Down/Rewind Button m Pause/Down Button n Preset Down/Channel-Down Button o Numeric Keys p Speaker Select Button q Channel-Select Button r </> Select Buttons s Test Tone Button t Set Button u Digital Input Selector v Clear Button w Memory Button x Direct/Random Play Button y Slow-Play Buttons z Delay Button `Preset Up/Channel-Up Button 28 q Tune Up/Fast-Forward Button 29 q Menu/CDR Button 30 q Device Volume Control 31 q Master Volume Control 32 q Mute Button 33 q Surround Mode Selectors 34 q Open/Close Button 35 q Source Power Controls 36 q 6-Channel Direct Selector 37 q Program/Command Indicator 37 a b c e g d f h i j k m l n o p q s t r TV V1 VCR V2 V3 DVD INPUT/POWER ON AM/FM MAIN POWER OFF DIM/NIGHT SLEEP CD TAPE 6 CH 36 35 34 33 32 31 30 29 28 SOURCE POWER ON OFF DISC SKIP PS MODE MUTE SURR. SUBTITLE ON/OFF ANGLE Sin AUDIO Du VOLUME MASTER VOL TITLE CDP UP MENU CDR TUNING TUNING D O WN CH FF R EW DOWN STOP ENTER / CH `5 PRESET TUNING UP 1 2 3 4 6 7 8 9 0 **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 27 for a list of these functions.

SPK CH DELAY SLOW z y w u x v CLEAR RANDOM SET TEST TONE DIGITAL INPUT DIR MEMORY PROG. 10 REMOTE CONTROL FUNCTIONS Remote Control Functions **IMPORTANT NOTE:** The AVR 100's remote is shipped from the factory to control all of the functions of the AVR, as well as most Harman Kardon CD, DVD and cassette players. In addition, it may also be programmed to operate many popular VCRs, TV sets, CD and DVD players. Because of the versatility of the remote, each button may have different functions, depending on which product is being controlled. The descriptions shown here describe the function of the buttons for the AVR, as well as the most popular accessory source products. It is important to note that the capability of the remote to control a specific feature of any product other than the AVR depends on many factors, and not all features will work on all products. For complete information on programming the remote control, see page 24. **a Device Selectors:** Pressing these buttons will perform three different actions at the same time. First, if the AVR is not turned on, pressing the button will power up the unit. Next, it will select the source shown on the button as the unit's input source. Finally, pressing the button will activate the control buttons for the device selected, provided that the remote has been properly programmed. **b 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. **c Main Power Off Button:** Press this button to place the unit in the Standby mode. **d Sleep Button:** Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 100 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 **f Tuner Mode:** When the FM band is in use, press this button to change between MONO and STEREO modes. When the MONO indicator is lit, all stations will play in the mono mode only. Press the button to turn off the MONO indicator to put the unit an automatic mode which will select stereo when a station is broadcasting in stereo. When the signal strength is weak, press the button to go to the Mono mode for better reception. **g Disc-Skip Button:** This button does not have any function on the AVR, but it is used with many CD changers after the CD Button a has been pressed to change the disk being played. **h DVD Function Buttons:** These buttons do not have any function on the AVR, but they are used with many DVD players or changers after the DVD Button a has been pressed to change subtitle, angle or audio mode. They are also used with dual-well cassette or CDR players to select the playback mode. **i Play/Up Button:** This button does not have any function on the AVR but it is used as the Play or Up/v function with many products. **j Title/CDP Button:** This button does not have any function on the AVR but it is used with many DVD players as the Title button, and on dual-well CD-R recorders to select the playonly transport. **k Stop/Enter Button:** This button does not have any function on the AVR but it is used with many products as the "Stop" button or to enter a setting with the on-screen menu system. **l Tune Down/Rewind Button:** When the AVR's tuner is in use, press this button to tune down through the frequency band in use to select another station. Press the button for a few seconds and then release it to automatically tune to the next station with a signal that provides acceptable reception. This button is also used as the rewind button for many CD players, DVD players, cassette players and VCRs. **m Pause/Down Button:** This button does not have any function on the AVR but it is used as the Pause or Down/w function with many products. **n Preset-Down/Channel-Down Button:** When the AVR's tuner is in use, press this button to scroll down through the list of stations that have been entered into the preset memory. When a CD or DVD player is in use, this button is the Skip-Back function.



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When a VCR or TV is in use, this is the Channel-Down button. o 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. p Speaker Select: Press this button to begin the process of configuring the AVR 100's Bass Management System for use with the type of speakers used in your system. Once the button has been pressed, use the </> selector buttons r to select the channel you wish to set up. Press the Set button t and then select another channel to configure. (See page 16 for more information.) q Channel-Select Button: Press this button to begin the process of setting the output-level trims when program material is being used as the source.

(See page 23 for more information on setting the output level trims.) r </> Select Buttons: These buttons are used to scroll through the list of settings when adjustments are being made to the speaker configuration, delay time settings, digital input selection and other AVR setup procedures. s Test Tone: Press this button to begin the sequence used to calibrate the AVR 100's output levels. (See page 17 for more information on calibrating the AVR 100.) t Set Button: This button is used to enter settings into the AVR 100's memory.

It is also used in the setup procedures for delay time, speaker configuration and channel output-level adjustment. u Digital Input Select: Press this button to assign one of the digital inputs >fi to a source. (See page 20 for more information on using digital inputs.) v Clear Button: This button is used during the process of clearing preset stations from the tuner's memory. (See page 22 for more information on erasing the preset stations.)

w Memory Button: Press this button to begin the process of entering stations into the AVR's preset memory system. (See page 22 for more information on the preset memory system.) Press and hold the button for two seconds to turn off the Sleep mode setting. e Night Mode/Dim Button: 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. 11

REMOTE CONTROL FUNCTIONS Remote Control Functions x Direct/Random Buttons: When the AVR's tuner is in use, press this button to enter a station's frequency directly into the tuner. After the button has been pressed, press the Numeric Keys o to enter the frequency. When a CD or DVD player is in use, this button is used to activate the Random-Play function. y Slow-Play Buttons: These buttons do not have any function on the AVR but when a DVD is in use they operate the Slow-Play Forward and Reverse functions. z Delay Button: Press this button to begin the process for setting the delay times used by the AVR 100 when processing surround sound.

After pressing this button, the delay times are entered by pressing the Set button t and then using the </> selector buttons r to change the setting. Press the Set button again to complete the process. (See page 1819 for more information.) `Preset Up/Channel-Up Button: When the AVR's tuner is in use, press this button to scroll up through the list of stations that have been entered into the preset memory. When a CD or DVD player is in use, this button is the Skip-Forward function. When a VCR or TV is in use, this is the Channel-Up button. 30 Device Volume Control: These buttons do not have any function for the AVR but when a TV set or other product with a volume control is in use, they change the volume on that product. NOTE: When any of these buttons is pressed the Program/Command Indicator will briefly flash red to confirm your selection. 31 Master Volume Up/Down: Press these buttons to raise or lower the system volume. 32 Mute: Press this button to momentarily silence the AVR 100 or TV set being controlled, depending on which device has been selected.

33 Surround Mode Selectors: Press these buttons to change the AVR's surround mode. (See page 20 for more information on surround mode selection.) These buttons are also used when programming the remote using the Auto Search mode. (See page 24 for more information on programming the remote.) 34 Open/Close Button: This button does not have any function for the AVR but when a CD or DVD player is in use, pressing it will open or close the disc drawer.

35 Source Power Controls: Press these buttons to turn on or off any additional products programmed into the remote. (See page 25 for more information on programming the remote for use with other products.) 36 6-Ch. Direct Inputs: Press this button to select the component connected to the 6-Ch. direct input as the source.

37 Program/Command Indicator: This LED will flash briefly when a button is pushed to confirm that a command has been transmitted. Note that occasionally the light will not flash when a button is pushed. In most cases this indicates that no function is associated with that button. If the light does not flash when ANY button is pushed, the batteries should be replaced. This button is also used during the process of programming remote codes for the various devices. (See page 24 for more information on programming the remote.) 28 Tune Up/Fast-Forward Button: When the AVR's tuner is in use, press this button to tune up through the frequency band in use to select another station. Press the button for a few seconds and then release it to automatically tune to the next station with a signal that provides acceptable reception. This button is also used as the fast-forward button for many CD players, DVD players, cassette players and VCRs. 29 Menu/CDR Button: This button does not have any function for the AVR but when a CDR recorder is in use, it selects the record transport.

When many menu-driven products such as VCRs, DVDs and TVs are in use, it operates the functions associated with the Menu button. 12 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 an 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 ¶. 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.

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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 ^a on the AVR 100. 3. Connect the output of any digital sources to the appropriate input connections on the AVR 100 rear panel. Note that the Optical and Coaxial digital inputs ^{fi} may be used with a Dolby Digital source or the output of a conventional CD or LD player's PCM (S/P-DIF) output. 4.

Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM and GND screw terminals ^j . 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. 6.

Connect the front, center and surroundspeaker outputs / 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 100 and speaker. 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 100. 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. 7. Connections to a subwoofer are normally made via a line level audio connection from the Subwoofer Output to the line-level input of a subwoofer with a built-in amplifier. When a passive subwoofer is used, the connection first goes to a power amplifier, which will be connected to one or more subwoofer speakers. If you are using a powered subwoofer that does not have line-level input connections, follow the instructions furnished with the speaker for connection information. 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 on the rear panel. The Audio and Video Record/In jacks on the VCR should be connected to the Video 1 Out jacks ^o on the AVR 100. 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 In jacks ^{fl} . 3.

Connect the analog audio and video outputs of a DVD or laser disc player to the DVD jacks [§] . 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 ^{fi} >. 5. Connect the Video Monitor Out , jacks on the receiver to the composite Video input of your television monitor or video projector. 5. 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 13 INSTALLATION AND CONNECTIONS Installation and Connections System and Power Connections The AVR 100 is designed for flexible use with multiroom systems, external control components and power amplifiers. 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 Cont. In jack [£] . 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 [¢] to the Remote In jack on Harman Kardon or other compatible equipment. External Audio Decoder Connection To provide for ultimate flexibility, the AVR 100 may be used in conjunction with optional, external decoders for digital audio systems other than the AVR 100's own built-in Dolby Digital decoding system. 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 100 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 two accessory AC outlets. They may be used to power accessory devices, but they should not be used for highcurrent draw equipment such as power amplifiers.

The total power draw to each outlet may not exceed 100 watts. The Switched [¤] outlet 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 using that product's remote control.



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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 100! 14 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. 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 15 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 100'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 100 to begin these final adjustments. 1.

Plug the Power Cable < into an unswitched AC outlet. 2. Press the Main Power Switch 1 in so that it latches in and is flush with 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. sounds. If you are in doubt as to which category describes your speakers, consult the specifications in the speakers' owner's manual, or ask your dealer. With the AVR 100 turned on, follow these steps to configure the speakers: 1. Put the AVR 100 in the Dolby Pro Logic mode by pressing the Dolby Pro Logic Selector Ô on the front panel or by pressing the Surround Mode Selectors 33 on the remote, until PRO LOGIC appears in the Main Information Display N and the PRO LOGIC indicator B lights. 2. Press the Speaker button fl 3 on the 3 remote or front panel. The words FRNT SPEAKER will appear in the Main Information Display N. 3.

Press the Set button t 3 and note 1 that the > pointer will stop flashing. 4. Press the </> buttons r on the remote or the Selector buttons 3 on the front 4 panel until either LARGE or SMALL appears, matching the type of speakers you have at the left-front and right-front positions, as described by the definitions shown in preceding section. When SMALL is selected, low-frequency sounds will be sent to the subwoofer output only. Note that if you choose this option, and there is no subwoofer connected, you will not hear any low-frequency sounds from the front channels. When LARGE is selected, a full-range output will be sent to the front-left and front-right outputs, and NO low-frequency signals will be sent to the subwoofer output. 5. When you have completed your selection for the front channel, press the Set button t 3, and then press the </> buttons 1 r on the remote or the Selector buttons 3 on the front panel to change the display to CEN SPEAKER. 6. Press the Set button t 3 again, and 1 use the </> buttons r on the remote, or the Selector buttons 3 on the front 4 panel, to select the option that best describes your system based on the speaker definitions shown in preceding section.



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If repositioning of the speakers is not possible, adjust the center delay time, adding one millisecond of center-channel delay for every foot closer to the listening position the center speaker is than the front speakers. For example, if the front-left and front-right speakers are each 10 feet from the listening position and the center-channel speaker is 8 feet away, the delay is figured as $108=2$, suggesting an optimal center delay of 2 milliseconds.

To set the delay times, follow these steps: 1. Put the AVR 100 in the Dolby Pro Logic mode by pressing the Dolby Pro Logic Selector \hat{O} on the front panel or by pressing the Surround Mode Selectors 33 on the remote, until PRO LOGIC appears in the Main Information Display N and the PRO LOGIC indicator B lights up. 2. Press the Delay button $z \sim$ on the remote or front panel. The words R DELAY TIME will appear in the Main Information Display N. 3. Press the Set button $t \ 3$. 4. Adjust the delay time by pressing the $</>$ buttons r on the remote or the Selector buttons 3 4 on the front panel until the delay time figure calculated using the formula entered above appears in the display. 5.

If only analog sources will be used, no adjustment is needed for the center-channel delay. In that case, press the Set button $t \ 3$ to enter the surround delay set1 tings into the AVR's memory. However, if you will be using digital sources and the calculations outlined above indicate that the center-channel delay requires an adjustment, continue with the following steps. 6. Before setting the center-channel delay time, make certain that a digital source has been selected. If a digital source is playing, COAX G or OPTICAL F will appear in the Information display N. If a digital source is already connected and playing, press the Delay button $\sim z$ and then the $</>$ buttons $r \ 3$ until 4 the words C DELAY TIME appear in the Main Information Display 3 and 5 proceed to step #10. If a digital source is not playing, follow steps 7 through 10. 7. Press the Set button $t \ 3$.

8. Select the Dolby Digital mode either by pressing the front panel Dolby Digital Selector \hat{O} or by pressing the Surround Mode Selectors 33 on the remote on the remote until DOLBY DIG appears in the Main Information Display N or in the on-screen display. Ignore any "NO DATA" message that may appear. 9. Press the Delay button $z \sim$ on the remote or front panel.

The words R DELAY TIME appear in the Main Information Display N. 10. Press the $</>$ buttons r on the remote once, so that C DELAY TIME appears in the Main Information Display N or in the on-screen display. 11. Press the Set button $t \ 3$.

12. Press the $</>$ buttons r on the remote until the desired delay time for the center channel appears in the display. 13. Press the Set button $t \ 3$ to enter the setting into the AVR 100's memory. You have now completed the setup, adjustment and calibration of the AVR 100. You are now ready to enjoy the finest in music and hometheater listening. 18 SYSTEM CONFIGURATION Operation Basic Operation Once you have completed the setup and configuration of the AVR 100, it is simple to operate and enjoy. The following instructions should be followed for you to maximize your enjoyment of your new receiver: · When using the AVR 100 for the first time, you must press the Main Power Switch 1 on the front panel to turn the unit on. This places the unit in a Standby mode, as indicated by the amber color of the Power Indicator 3. Once the unit is in Standby, you may begin a listening session by pressing the System Power Control 2 on the front panel or the Device Selectors a on the remote.

Note that the Power Indicator 3 will turn red, then green. This will turn the unit on and return it to the input source that was last used. The unit may also be turned on from Standby by pressing any of the Input Selector buttons on front panel) ! @ # \$ %. To turn the unit off at the end of a listening session, simply press the System Power Control 2 on the front panel or the PowerOff Button c on the remote. Power to any equipment plugged into the rear panel Switched AC Outlet \boxtimes will be shut off and the Power Indicator 3 will turn amber. When the remote is used to turn the unit "off" it is actually placing the system in a Standby mode, as indicated by the amber color of the Power Indicator 3. · To program the AVR 100 for automatic turnoff, press the Sleep Button d 9 on the remote or front panel. Each press of the button will increase the time before shut down in the following sequence: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF · To change the brightness level of the Information Display 3, press the Dim 5 Switch e. The first press will dim the display to one-half brightness, the next press will turn it off. Note that changes to the display brightness will remain in effect only until the AVR is turned off.

Regardless of what the display brightness setting was during the last listening session, it will turn on again at full brightness the next time the unit is turned on. In addition, the Power Indicator 3 will always remain on to remind you that the unit is turned on. When you will be away from home for an extended period of time, it is always a good idea to completely turn the unit off using the front-panel Main Power Switch 1. NOTE: All preset memories are lost if the unit is left turned off with the Main Power Switch 1 for more than two weeks. · To temporarily silence all speaker outputs press the Mute button 32 i. This will interrupt the output to all speakers and the headphone jack, but it will not affect any recording or dubbing that may be in progress. When the system is muted the MUTE indicator O will light in the Information Display 35. Press the Mute button 32 i again to return to normal operation. · During a listening session you may wish to adjust the Bass Control 5 and Treble Control 6 to suit your listening tastes or room acoustics. · For private listening, plug the 1/4" stereo phone plug from a pair of stereo headphones into the front-panel Headphone Jack 4.

· In normal operation, when the AVR 100 is turned on, it will always return to the volume setting in effect when the unit was turned off. However, for some installations you may prefer to always have the AVR turn on at a specific setting, regardless of the level when the unit was turned off. To enter that mode and setting, follow these steps: 1. Press the Set Button $t \ 3$ until the word DEFAULT OFF will appear in the Main Information Display N. 2. Press the $</>$ Buttons r on the remote or the Selector Buttons 3 on 4 the front panel, and then set the desired turn-on volume level using the Volume Controls 31 2 within five seconds. 8 3. When no volume setting is made for five seconds, the volume level will be entered into the AVR's memory and will be used each time the unit is turned on. · To return the Volume Control setting at turn on to the last volume level in use, follow these steps: 1.



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