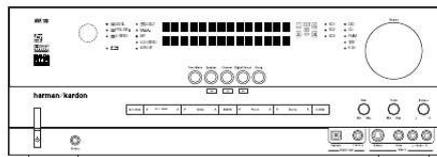Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 130. You'll find the answers to all your questions on the HARMAN KARDON AVR 130 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 130
User guide HARMAN KARDON AVR 130
Operating instructions HARMAN KARDON AVR 130
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Instruction manual HARMAN KARDON AVR 130

harman/kardon
Power for the Digital Revolution

AVR 130
AUDIO/VIDEO RECEIVER
OWNER'S MANUAL

harman/kardon

Manual abstract:

OFF LOGIC 7 VID 1 VID 2 VID 3 DVD CD FMAM TAPE 6 CH Surr. @@@@@@The AVR 130 has been custom-designed to provide all the excitement and detail of movie soundtracks and every nuance of musical selections. Dolby* Digital and DTS® decoding allows you to take advantage of digital soundtracks from the latest DVD releases and Digital Television broadcasts. While complex digital systems are hard at work within the AVR 130 to make all of this happen, hookup and operation are simple. Color-keyed connections and a programmable remote control make the AVR 130 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 130 is able to deliver. If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer. They are your best local sources of information.

Description and Features The AVR 130 is a versatile and multifeatured A/V receiver, 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 130's own FM/AM tuner. Along with Dolby Pro Logic* II decoding technology, 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 fly-overs and pans. Another feature exclusive to Harman Kardon receivers is VMAx,® which uses proprietary processing to create an open, spacious sound field even when only two front speakers are available. In addition to providing a wide range of listening options, the AVR 130 is easy to configure so that it provides the best results with your speakers and specific listening-room environment.

A Stereo-Direct mode bypasses the digital processor to preserve all of the subtleties of older analog, two-channel materials, while bass management, available in the surround and Stereo-Digital modes, improves your ability to tailor the sound to suit your room acoustics or taste. For the ultimate in flexibility, the AVR 130 features connections for four video devices, all with both composite and S-Video inputs, including the front-panel inputs. Two additional audio inputs are available, and a total of six digital inputs make the AVR 130 capable of handling all the latest digital audio sources. Coax and optical digital audio outputs are also available for direct connection to digital recorders. A video recording output and a six-channel input make the AVR 130 virtually future-proof, with everything needed to accommodate tomorrow's new formats right on board.

The AVR 130's powerful amplifier uses traditional Harman Kardon high-current, ultrawide bandwidth design technologies. Harman Kardon invented the high-fidelity receiver fifty years ago. With state-of-the-art circuitry and timehonored circuit designs, the AVR 130 is one of the finest receivers ever offered by Harman Kardon. Onboard Dolby* Digital and DTS®* Decoding Using Cirrus® Chip Technology Harman Kardon's Exclusive Logic 7® and VMAx® Modes Dolby Laboratories' Pro Logic* II Processing Technology Stereo-Direct Mode for Two-Channel Sources Bypasses DSP Processing to Preserve the Integrity of Analog Materials Stereo-Digital Mode for Programmable Bass Management of Low Frequencies Between Main Speakers and Subwoofer Front-Panel Digital Inputs for Easy Connection to Portable Digital Devices and Video Game Consoles Multiple Digital Inputs and Outputs 6-Channel Direct Input for Use With DVD- Audio or SACD Players and Other Products With Internal Surround Decoders Color-Coded Input, Output and Speaker Terminals Comply With CEA Standards for Easy Installation TO 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. These limits are designed to provide reasonable protection against interference in a residential area. This device generates and uses radio frequency energy and if not installed and used in accordance with the instructions, it may cause interference to radio or TV reception. If this unit does cause interference with TV or radio reception, you can try to correct the interference by one or more of the following measures: A. Reorient or relocate the receiving antenna. B. Increase the separation between the equipment and the receiver.

C. Plug the equipment into a different outlet so that it is not on the same circuit as the receiver. If necessary, consult the dealer or an experienced radio/TV technician for additional suggestions. CAUTION: Changes or modifications to this equipment not expressly approved by Harman Consumer Group for compliance could void the user's authority to operate this equipment. CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN Pour le CANADA CORDE DE CONNEXION CA ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel. 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.

For CANADA AC POWER CORD CONNECTION CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. INTRODUCTION 3 SAFETY INFORMATION Important Safety Information Verify Line Voltage Before Use Your AVR 130 has been designed for use with 120volt 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 immediately replaced by an authorized service center with a cord meeting factory specifications.

Handle the AC Power Cord Gently When disconnecting the power cord from an AC outlet, always pull the plug, never pull the cord. If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet.

Do Not Open the Cabinet There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee. If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service 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 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible. Installation Location To ensure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product. Make certain that proper space is provided both Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV tech- 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. Do not place the unit directly on a carpeted surface. Avoid installation in extremely hot or cold locations, nician 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.

or an area that is exposed to direct sunlight or heating equipment. Avoid moist or humid locations. 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 the AVR is ready to be turned on. When the unit is in operation, the indicator is blue. 3 Standby/On Switch: When the Main Power Switch 1 is "ON," press this button to turn on the AVR 130; press it again to turn the unit off.

The Power Indicator 3 turns blue when the unit is on. 4 Headphone Jack: This jack may be used to listen to the AVR 130's output through a pair of headphones. The speakers will automatically be turned off when the headphone jack is in use. 5 Tone Mode Selector Buttons: Pressing this button enables or disables the Bass and Treble tone controls. When the button is pressed so that TONE IN appears in the Lower Display Line ¯, the Bass Ó and Treble Ú controls may be used to adjust the output signals. When the button is pressed once or twice so that the words TONE OUT appear in the Lower Display Line ¯, the output signal will be "flat, no matter how the actual Bass and " Treble Controls ÓÚ are adjusted. 6 Speaker Selector: Press this button to begin the process of configuring the unit to match the type of speakers used in your listening room. (See pages 1619 for more information on speaker setup and configuration.) 7 Surround Mode Group Selector: Press this button to select the top-level group of surround modes. Each press of the button will select the current mode in each of the major groupings (e.

g., Dolby, DTS, Logic 7, DSP, Stereo). When the button is pressed so that the name of a mode in the desired surround-mode group appears in the onscreen display and in the Lower Display Line ¯, press the Surround Mode Selector 8 to cycle through the individual modes available. For example, press this button to select Dolby modes, and then press the Surround Mode Selector 8 to choose from the various mode options. FRONT-PANEL CONTROLS 5 FRONT-PANEL CONTROLS 8 Surround Mode Selector: Press this button to select from among the available surround mode options for the mode group selected. The specific modes will vary based on the number of speakers available, the mode group and if the input source is digital or analog. For example, press the Surround Mode Group Selector 7 to select a mode grouping such as Dolby or Logic 7, and then press this button to see the available mode choices. For more information on mode selection, see pages 22 and 23. 9 Tuning Selector: Press the left side of the button to tune lower-frequency stations and the right side of the button to tune higher-frequency stations. When the tuner is in the MANUAL mode, each tap will increase or decrease the frequency by one increment. When the tuner receives a strong enough signal for adequate reception, MANUAL TUNED will appear in the Lower Display Line ¯. When the tuner is in the AUTO mode, press the button once, and the tuner will scan for a station with acceptable signal strength. When the next station with a strong signal is tuned, the scan will stop and the Lower Display Line ¯ will indicate AUTO TUNED. When an FM Stereo station is tuned, the display will read AUTO ST TUNED. To switch back and forth between the Auto and Manual tuning modes, press the Tuner Mode Selector &.

) </> Buttons: When configuring the AVR 130's settings, use these buttons to select from the choices available, as shown in the Upper or Lower Display Lines ~¯. ! Tuner Band Selector: Press this button to turn the AVR on and switch to select the Tuner as the input source. Press it again to switch between the AM and FM frequency bands.

(See page 25 for more information on the tuner.) @ Set Button: When making choices during the setup and configuration process, press this button to enter the desired setting into the AVR 130's memory.

Digital Input Selector: Press this button to select one of the digital inputs or the analog input for any source. (See pages 2325 for more information on digital audio.) $ Preset Stations Selector: Press this button to scroll up or down through the list of stations that have been entered into the preset memory. (See page 25 for more information on tuner presets.) % Delay Adjust Selector: Press this button to begin the steps required to enter delay settings. (See page 19 for more information on delay times.) ^ Input Source Selector: Press this button to change the input by scrolling up or down through the list of Input Indicators i. & Tuner Mode Selector: Press this button to select Auto or Manual tuning. When the button is pressed so that AUTO appears in the Lower Display Line ¯, the tuner will search for the next station with an acceptable signal when the Tuning Selector 9u is pressed. When the button is pressed so that MANUAL appears in the Lower Display Line ¯, each press of the Tuning Selector 9u will increase the frequency.

This button may also be used to switch between Stereo and Mono modes for FM radio reception. When weak reception is encountered, press the button so that MANUAL appears in the Lower Display Line ¯ to switch to Mono reception. Press it again to switch back to STEREO mode. (See page 25 for more information on using the tuner.) * Optical 3 Digital Input: Connect the optical digital audio output of an audio or video product to this jack. When the input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance. (Coaxial 3 Digital Input: This jack is used for connection to the output of portable audio devices, video game consoles or other products that have a coax digital audio jack. Ó Bass Control: Turn this control to modify the lowfrequency output of the left/right channels by as much as ±10dB, when the unit is in the "Surround Off" mode. Ô Video 3 Video Input Jacks: These jacks may be used for temporary connection to the composite or SVideo output of video games, camcorders or other portable video products. You may make a connection to either jack at any time, but not both simultaneously.

Video 3 Audio Input Jacks: These audio jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. Ò Balance Control: Turn this control to change the relative volume for the front left/right channels. NOTE: For proper operation of the surround modes this control should be at the midpoint or "12 o'clock" position. Ú Treble Control: Turn this control to modify the high frequency output of the left/right channels by as much as ±10dB, when the unit is in the "Surround Off" mode. Û Channel Adjust Selector: Press this button to begin the process of trimming the channel output levels using an external audio source.

(For more information on output level trim adjustment, see page 26.) Ù Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the AVR 130 is muted, adjusting the Volume Control Ù 37 will automatically release the unit from the silenced condition. i Input Indicators: The name of the selected input will appear here. ^ Speaker/Channel Input Indicators: These indicators are multipurpose, indicating both the speaker type selected for each channel and the incoming datasignal configuration.

The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "small" speaker is selected, and the two outer boxes light when "large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been assigned that position. (See page 16 for more information on configuring speakers.) The letters inside each box display the active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. For a digital source, the indicators will light to display the channels being received at the digital input. When the letters flash, the digital input has been interrupted. (See pages 1819 for more information on the Channel Indicators.) ~ Upper Display Line: Depending on the unit's status, a variety of messages will appear here.

In normal operation, this line will show the current input source and which analog or digital input is in use. When the tuner is the input, this line will identify the station as AM or FM and show the frequency and preset number, if any. ¯ Lower Display Line: Depending on the unit's status, a variety of messages will appear here. In normal operation, the current surround mode will show here. Surround Mode Indicators: The name of the selected surround mode will appear here. ¸ Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it. 6 FRONT-PANEL CONTROLS REAR-PANEL CONNECTIONS g h f e d c b a · ° fl fi > < ¤ / , ¡ TM £ ¢ ¡ CD Audio Inputs TM Tape Outputs £ Tape Inputs ¢ Subwoofer Output Front Speaker Outputs § Surround Speaker Outputs ¶ Center Speaker Outputs · Optical Digital Inputs ª Coaxial Digital Inputs § ¶ · ª · Video 2 S-Video Input a 6-Channel Direct Inputs b Video Monitor Output c DVD Audio/Video Inputs d Video 1 Audio/Video Inputs e Video 1 Audio/Video Outputs f Video 2 Audio/Video Inputs g AM Antenna Terminals h FM Antenna Jack , AC Power Cord / Switched AC Accessory Outlet ¤ Unswitched AC Accessory Outlet < Optical Digital Output > Coaxial Digital Output fi S-Video Monitor Output fl DVD S-Video Input Video 1 S-Video Input ° Video 1 S-Video Output NOTE: To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com.

NOTE: To assist in making the correct connections for multichannel input, output and speaker connections, all connection jacks and terminals are color-coded in conformance with the CEA standards as follows: ¡ CD Audio Inputs: Connect these jacks to the output of a Compact Disc player or changer. TM Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder. £ Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder. ¢ Subwoofer Output: Connect this jack to the linelevel input of a powered subwoofer.

If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input.

Front Left: Front Right: Center: Surround Left: White Red Green Blue Surround Right: Subwoofer: Coaxial Digital Audio: Composite Video: Gray Purple Orange Yellow Front Speaker Outputs: Connect these outputs to the matching + and terminals on your front speakers. § Surround Speaker Outputs: Connect these outputs to the matching + or terminals on your left and right surround speakers. ¶ Center Speaker Outputs: Connect these speaker outputs to the matching (+) and () terminals on your center channel speaker. NOTE ON ALL SPEAKER CONNECTIONS: When making speaker connections always make certain to maintain correct polarity by connecting the black terminal to the negative () terminal on the speakers. Connect the blue terminal to the positive (+) terminal on the left surround speaker and the gray terminal to the positive (+) terminal on the right surround speaker.

When a newer complete 5-piece speaker system is used, the individual speakers may have matching color terminals in accordance with CEA specifications, while existing speakers typically use a red terminal for the positive (+) speaker wire connection. (See page 13 for more information on speaker polarity.) REAR-PANEL CONNECTIONS 7 REAR-PANEL CONNECTIONS · Optical Digital Inputs: Connect the optical digital audio output from a DVD player, HDTV receiver, LD player, satellite receiver, cable box, MiniDisc player or recorder, 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 Coaxial Digital Inputs: Connect the coax digital audio output from a DVD player, HDTV receiver, LD player, satellite receiver, cable box, MiniDisc recorder or CD player to these jacks. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks. NOTE: The default setting for the audio input associated with DVD is the Coaxial Digital Input 1 ª. If you connect the audio outputs of a DVD player to another digital or analog audio jack, change the input setting as shown on page 19. , AC Power Cord: Connect the AC plug to an unswitched AC wall outlet.

/ Switched AC Accessory Outlet: This outlet may be used to power any device you wish to have turned on or off at the same time as the AVR 130. Any device connected to this outlet will be off when the AVR 130 is in the Standby mode, and power will be supplied to the outlet when the AVR 130 is turned on. ¤ 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 130 is on or off. IMPORTANT NOTE: The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts. Do not connect power amplifiers or other high-current-draw devices to these outlets. < Optical Digital Output: Connect this jack to the matching digital audio input connector on a digital recorder such as a CD-R or MiniDisc recorder. > Coaxial Digital Output: Connect this jack to the matching digital audio input connector on a digital recorder such as a CD-R or MiniDisc recorder. fi S-Video Monitor Output: When your television or other video display is equipped with an S-Video input and you are using at least one video source with S-Video capability, connect this jack to the SVideo input on the video display. fl DVD S-Video Input: If you are not making a direct connection from the component video outputs of your DVD player to a television or other video display, connect the S-Video output of the DVD player to this jack and then make certain that the S-Video Monitor Output fi is also connected as described above.

Video 1 S-Video Input: If the product connected to the Video 1 Audio Inputs d has S-Video capability, connect this jack to the PLAY/OUT S-Video jack on that unit and then make cerain that the S-Video Monitor Output fi is also connected as described above. ° Video 1 S-Video Output: If the product connected to the Video 1 Audio Outputs e has S-Video capability, connect this jack to the REC/IN S-Video jack on that unit. · Video 2 S-Video Input: If the product connected to the Video 2 Audio Inputs f has S-Video capability, connect this jack to the PLAY/OUT S-Video jack on that unit and then make certain that the S-Video Monitor Output fi is also connected as described above. a 6-Channel Direct Inputs: Connect the outputs of a DVD Audio or SACD player,or another product with built-in multichannel decoding, to these jacks. These jacks have been color-coded as follows to assist you in making correct channel connections: Front Left White Front Right Red Center Green Surround Left Blue Surround Right Gray Subwoofer Purple b 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.

c DVD Audio/Video Inputs: Connect one of these jacks to the composite video and L/R analog audio output jacks on a DVD or other video source. NOTE: The default setting for the audio input associated with DVD is the Coaxial Digital Input 1 ª. If you connect the audio outputs of a DVD player to another digital or analog audio jack, change the input setting as shown on page 19. d Video 1 Audio/Video Inputs: Connect these jacks to the PLAY/OUT composite video jacks and L/R audio jacks on a VCR or other video source. e Video 1 Audio/Video Outputs: Connect these jacks to the RECORD/INPUT composite video and L/R audio jacks on a VCR.

f Video 2 Audio/Video Inputs: Connect these jacks to the PLAY/OUT composite video and L/R audio jacks on a TV, VCR or other video source. g AM Antenna Terminals: 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. h FM Antenna Jack: Connect the supplied indoor or an optional external FM antenna to this jack. Note on Video Connections: When connecting a source device such as a VCR, DVD Player, cable or satellite set top box or video game to the AVR, use either a composite or S-Video connection for each input, but not both. 8 REAR-PANEL CONNECTIONS REMOTE CONTROL FUNCTIONS a Power Off Button b IR Transmitter Window c Program Indicator d Power On Button e Input Selectors f AVR Selector g AM/FM Tuner Select h Dim Button i Test Button j Sleep Button k DSP Surround Mode Selector l Night Mode Button m Channel Select Button n /¤ Buttons o Set Button p < > Buttons q Digital Select Button r Numeric Keys s Tuner Mode Button t Direct Button u Tuning Up/Down Buttons v Macro Buttons w Dolby Mode Select Button x DTS Digital Mode Select Button y Logic 7 Mode Select Button z Track Skip Up/Down Buttons `Transport Controls 28 Stereo Mode Selector Button 29 DTS Neo:6 Mode Select Button 30 Disc Skip Button 31 Preset Up/Down Buttons 32 Clear Button 33 Memory Button 34 Delay Button 35 Speaker Select Button 36 Spare Button 37 Volume Up/Down Button 38 TV/Video Button 39 6-Channel Direct Input Button 40 Mute c ba POWER e d f ON OFF MUTE 40 AVR VCR VID1 DVD TV VID2 CD CBL/SAT VID3 6 CH.

TAPE g i h j DIM AM/FM 39 38 k l m n o q p SLEEP CH. SURR. TEST NIGHT T/V VOL. 37 36 35 GU ID E ME N SP K R U CH .

SET p 34 EV .C n r s u v w y x z LA DE Y PR I DIG EX 1 5 TUN-M 2 6 9 DIRECT 3 7 0 CLEAR 4 8 MEM H. TA L IT t TUNING D.SKIP PRESET 33 32 31 30 M1 DOLBY M2 M3 M4 DTS NEO:6 DTS SURR 29 LOGIC 7 STEREO 28 DOWN NOTES: · The function names shown here refer to each button's feature when used with the AVR 130. Most buttons have additional functions when used with other devices. See pages 3132 for a list of these functions. · To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com. SKIP UP `130 REMOTE CONTROL FUNCTIONS 9 REMOTE CONTROL FUNCTIONS IMPORTANT NOTE: The AVR 130's remote may be programmed to control up to seven devices, including the AVR 130.

Before using the remote, remember to press the Input Selector Button e that corresponds to the unit you wish to operate. In addition, the AVR 130's remote is shipped from the factory to operate the AVR 130 and most recent Harman Kardon products. The remote is also capable of operating a wide variety of other products using the control codes that are part of the remote. Before using the remote with other products, follow the instructions on pages 2729 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 130. (See pages 3132 for information about alternate functions for the remote's buttons.) a Power Off Button: Pressing this button turns off (places in the Standby mode) the device that was last selected by pressing one of the Input Selectors e. To place the AVR 130 in the Standby mode, first press the AVR Selector Button f and then press this button. b IR Transmitter Window: Point this window towards the AVR 130 when pressing buttons on the remote to make certain that infrared commands are properly received.

c Program Indicator: This three-color indicator is used to guide you through the process of programming the remote. (See pages 2729 for information on programming the remote.) d Power On Button: After selecting a device by pressing one of the Input Selectors e, press this button to turn the device on. To turn on the AVR 130, press the AVR Selector Button f. e Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR 130 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 130. 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 f again to operate the AVR 130's functions with the remote. f AVR Selector: Pressing this button will switch the remote so that it will operate the AVR 130's functions.

If the AVR 130 is in the Standby mode, it will also turn the AVR 130 on. g AM/FM Tuner Select: Press this button to select the AVR 130's tuner as the listening choice. Pressing this button when the tuner is already in use will switch between the AM and FM bands. h Dim Button: Press this button to activate the Dimmer function, which reduces the brightness of the front-panel display, or turns it off entirely. The first press of the button shows the default state, which is full brightness, by indicating DIMMER FULL in the Lower Display Line ¯. Press the button again within five seconds to reduce the brightness by 50%, as indicated by DIMMER HALF showing in the Lower Display Line ¯. Press the button again within five seconds and the main display will go completely dark. Note that this setting is temporary, in that, regardless of any changes, the display will always return to full brightness when the AVR is turned on. In addition, the Power Indicator 2 will always remain at full brightness regardless of the setting. This is to remind you that the AVR is still turned on.

i Test Button: Press this button to begin the sequence used to calibrate the AVR 130's output levels. (See pages 1819 for more information on calibrating the AVR 130.) j Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 130 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 NOTE: The Sleep Button j and DSP Surround Mode Selector k may also function as the Channel + and keys when the remote is programmed for use with TVs, cable boxes, VCRs, satellite receivers or other video devices with tuners.

See page 29 for information on programming the remote for Channel Control Punch-Through capability so that you may change channels on a separate device when the remote is in AVR mode. l Night Mode Button: Press this button to activate the Night mode. This mode is available in specially encoded digital sources to preserve dialogue (center channel) intelligibility at low volume levels. m Channel Select Button: This button is used to start the process of setting the AVR 130's output levels to an external source. Once this button is pressed, use the //¤ Buttons n to select the channel being adjusted, then press the Set Button o, followed by the //¤ Buttons n again, to change the level setting.

(See page 26 for more information.) n /¤ Buttons: These multipurpose buttons are used to change configuration settings, such as output levels. When changing an item such as the surround mode or digital input directly, first press the function or mode to be changed (e.g., press the Digital Select Button q to change the digital input) and then press this button to scroll through the list of available choices. o Set Button: This button is used to enter settings into the AVR 130's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. p <> Buttons: Thess buttons are not used to operate or configure the AVR 130's settings, but they are used as part of the navigation system for other devices you may operate with the remote, such as DVD players, video displays and cable or satellite set top boxes. (See pages 28 and 3032 for more information on using the AVR's remote with other products.) q Digital Select Button: Press this button to assign one of the digital inputs ·ª*(to the source currently in use.

(See page 23 for more information on using digital inputs.

) r Numeric Keys: These buttons serve as a tenbutton 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. Note that when the Sleep function is in use, the display will dim to half brightness. This button is also used to change channels on your TV when the TV is selected, and it is also used to end the process of creating a macro command. (See page 28 for more information on creating macros.) k DSP Surround Mode Selector: Press this button to select one of the DSP surround modes, such as VMAx, Hall or Theater. Each press of the button selects another mode. (See page 22 for more information on surround modes.) 10 REMOTE CONTROL FUNCTIONS REMOTE CONTROL FUNCTIONS s Tuner Mode Button: Press this button to change the tuner mode between manual and automatic.

When the button is pressed so that AUTO appears at the left side of the Lower Display Line ¯, only stations with acceptable signal quality will be tuned, and the tuner will play FM stations in stereo, when available. In the AUTO mode, when the Tuning Up/Down Buttons 9u are pressed, the unit will automatically search for the next available station with good signal strength. When this button is pressed so that MANUAL appears on the left side of the Lower Display Line ¯ each press of the Tuning Up/Down Buttons 9u will move the frequency up or down in single-step increments. When the FM band is in use, pressing this button so that the MANUAL mode is activated will enable you to tune stations with weak signals by changing to monaural reception. (See page 25 for more information.

) t Direct Button: When the tuner is in use, press this button to start the sequence for direct entry of a station's frequency. After pressing the button simply press the proper Numeric Keys r to select a station. (See page 25 for more information on the tuner.) u Tuning Up/Down Buttons: When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the Tuner Mode Button s& has been pressed so that the word AUTO appears in the Lower Display Line ¯, pressing either of the buttons will cause the tuner to seek the next station with acceptable signal strength for quality reception. When the word MANUAL appears in the Lower Display Line ¯, pressing these buttons will tune stations in single-step increments. (See page 25 for more information.) v Macro Buttons: Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote. (See page 28 for more information on storing and recalling macros.) w Dolby Mode Select Button: This button is used to select from among the available Dolby Surround processing modes. Each press of this button will select one of the Dolby Pro Logic II modes or Dolby 3 Stereo. When a Dolby Digital-encoded source is in use, the Dolby Digital mode may also be selected. (See page 22 for the available Dolby surround mode options.) x DTS Digital Mode Select Button: Although the AVR 130 will automatically select DTS processing when the digital audio input source is a DTS data stream, you may also press this button to select DTS playback. y Logic 7 Mode Select Button: Press this button to seelct from among the available Logic 7 surround modes.

(See page 22 for available Logic 7 options.) z Track Skip Up/Down Buttons: These buttons have no direct function with the AVR 130, but when used with a compatibly programmed CD or DVD changer, they will change the track or chapter of the disc currently being played in the changer. `Transport Controls: These buttons do not have any functions for the AVR 130, but they may be programmed for the forward/ reverse play operation of a wide variety of CD or DVD players, and audio or video cassette recorders. (See page 29 for more information on programming the Transport Control Punch-Through capability of the remote.) 28 Stereo Mode Select Button: Press this button to select a stereo playback mode. When the button is pressed so that DSP SURR OFF appears in the Lower Display Line ¯, the AVR will operate in a bypass mode with true fully analog, two-channel left/right stereo mode with no surround processing or bass management as opposed to other modes where digital processing is used. When the button is pressed so that SURROUND OFF appears in the Lower Display Line ¯, you may enjoy a two-channel presentation of the sound along with the benefits of bass management. When the button is pressed so that 5 CH STEREO appears, the stereo signal is routed to all five speakers, if installed. (See page 22 for more information on stereo playback modes.) 29 DTS Neo:6 Mode Select Button: Press this button to select a DTS Neo:6 mode.

These modes take a two-channel stereo- or matrix surroundencoded source and create a full five-channel sound field. (See page 22 for the available DTS Neo:6 options.) 30 Disc Skip Button: This button has no direct function for the AVR 130, but when used with a compatibly programmed CD or DVD changer, it will change the disc currently being played in the changer. (See page 28 for more information on using the remote with other devices.) 31 Preset Up/Down Buttons: When the tuner is in use, press these buttons to scroll through the stations programmed into the AVR 130's memory.

When some source devices, such as CD players, VCRs and cassette decks, are selected using the device Input Selectors e, these buttons may function as Chapter Step or Track Advance. 32 Clear Button: Press this button to clear incorrect entries when using the remote to directly enter a radio station's frequency. 33 Memory Button: Press this button to enter a radio station into the AVR 130's preset memory. First, tune the desired station, and then press this button. When two underline indicators flash at the right side of the Upper Display Line ~, press the numeric keys for the preset number between 01 and 30 that you wish to assign to the station within five seconds.

(See page 25 for more information.) 34 Delay Button: Press this button to begin the process for setting the delay times used by the AVR 130 when processing surround sound. After pressing this button, the delay times are entered by pressing the Set Button o and then using the //¤ Buttons n to change the setting. Press the Set Button o again to complete the process. (See page 19 for more information.) 35 Speaker Select Button: Press this button to begin the process of configuring the AVR 130's bass management system for use with the type of speakers used in your system. Once the button has been pressed, use the //¤ Buttons n to select the channel you wish to set up. Press the Set Button o and then select another channel to configure. When all adjustments have been completed, press the Set Button o twice to exit the settings and return to normal operation. (See page 16 for more information.

) 36 Spare Button: This button does not have any function for the operation of the AVR 130, but it is available for use when programmed with the code from another remote. (See page 27 for information on programming the remote with codes for other devices.) 37 Volume Up/Down: Press these buttons to raise or lower the system volume. (See page 29 for more information on programming the Volume PunchThrough capability of the remote, which allows you to change the AVR 130's volume while the remote is set to control another device.) 38 TV/Video Selector: This button does not have a direct function on the AVR 130, but when used with a compatibly programmed VCR, DVD or satellite receiver that has a "TV/Video" function, pressing this button will switch between the output of the player or receiver and the external video input to that player. Consult the owner's manual for your specific player or receiver for the details of how it implements this function. REMOTE CONTROL FUNCTIONS 11 REMOTE CONTROL FUNCTIONS 39 6-Channel Direct Input: Press this button to select the component connected to the 6-Channel Direct Input a as the audio source. Note that when you wish to use the 6-Channel Direct Input in conjunction with a video source, you must first select the video source by pressing one of the Input Selectors e. Then press this button to choose the 6-Channel Direct Input a as the audio source. 40 Mute: Press this button to momentarily silence the AVR 130 or TV set being controlled, depending on which device has been selected.

When the AVR 130 is muted, press this button or use the Volume Control Ù 37 to return to the previous volume level. When the AVR 130 remote is being programmed to operate another device or when a macro command is being programmed, this button is pressed with the Input Selector Button e to begin the programming process. (See page 27 for more information on programming the remote.) 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. 6.

Connect the supplied FM antenna to the FM Antenna (75 ohm) Connection h. The FM antenna may also 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 §¶ to the respective speakers. To ensure that all the audio signals are carried to your speakers without loss of clarity or resolution, we suggest that you use high-quality speaker cable. Many brands of cable are available and the choice of cable may be influenced by the distance between your speakers and the receiver, the type of speakers you use, personal preferences and other factors. Your dealer or installer is a valuable resource to consult in selecting the proper cable. Regardless of the brand of cable selected, we recommend that you use a cable constructed of 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. The AVR 130 conforms to the CEA-recommended color-coding for speaker terminals. Accordingly, the positive (+) terminal, which was previously red, is now a specific color to assist you in making the correct connections. If your speakers have color-coded connections, match the terminal on the AVR 130 to the like terminal on your speakers. For existing speakers with a red terminal for the positive connection, the connections on the AVR 130 are as follows: Front Left = White Front Right = Red Center = Green Surround Left = Blue Surround Right = Gray 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 ensure 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 130. 8.

Connections to a subwoofer are normally made via a line-level audio connection from the Subwoofer Output ¢ to the line-level input of a subwoofer with a built-in amplifier. When a passive subwoofer is used, the connection first goes to a power amplifier, which will be connected to one or more subwoofer speakers. If you are using a powered subwoofer that does not have line-level input connections, follow the instructions furnished with the speaker for connection information. 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 Audio 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. 2.

Connect the analog Play/Out jacks of a cassette deck, MD, CD-R or other audio recorder to the Tape Input Jacks £. Connect the analog Record/In jacks on the recorder to the Tape Output Jacks TM on the AVR 130. 3. Connect the output of any digital sources to the appropriate input connections on the AVR 130 rear panel. Note that the Optical and Coaxial Digital Inputs ·ª*(may be used with a Dolby Digital or DTS source, such as a DVD player, or the output of a conventional CD or LD player's PCM (S/P-DIF) output.

4. Connect the Optical Digital Output < or Coaxial Digital Output > on the rear panel of the AVR 130 to the matching digital input connections on a CD-R or MiniDisc recorder. 5. Assemble the AM Loop Antenna supplied with the unit so that the tabs at the bottom of the antenna loop snap into the holes in the base. Connect it to the AM and GND Screw Terminals g .

Video Equipment Connections Video equipment is connected in the same manner as audio components. Again, the use of high-quality interconnect cables is recommended to preserve signal quality. Although any compatible video device may be connected to any video input or output, to make programming device codes into the remote control easier, we recommend that you connect your VCR or DVD recorder or a personal video recorder (PVR) to the Video 1 Audio/Video and S-Video Inputs d, your television to the Video 2 Audio/Video Input ƒf, and your cable-TV converter or satellite receiver to the Video 3 Connectors Ô. 1. Connect a VCR's audio and video Play/Out jacks to the Video 1 Audio/Video and S-Video Input Jacks d on the rear panel. The Audio and Video Record/In jacks on the VCR should be connected to the Video 1 Audio/Video and S-Video Output Jacks °e on the AVR 130. 2. Connect the analog audio and video outputs of a television set or any other video source to the Video 2 Audio/Video and S-Video Jacks ƒf. 3. Connect the analog audio and video outputs of a cable TV converter or satellite receiver, or any other video source, to the Video 3 Jacks Ô on the front panel of the AVR 130.
INSTALLATION AND CONNECTIONS 13 INSTALLATION AND CONNECTIONS 4. Connect the left/right analog audio outputs of a DVD or laser disc player to the DVD Audio Inputs c. Connect the composite video output of your DVD player to the DVD Video Input c or the DVD player's S-Video output to the DVD S-Video Input fl. However, if your DVD player and video display both support component video, you should make that connection directly. When a digital audio connection is used for your DVD player, the default connection is the Coaxial Digital Input 1 Jack ª.
However, the connection may also be made to any of the Optical ·* or Coaxial ª(Digital Inputs, provided that the digital input source selection is changed as shown on page 23. For DVD players with DVD-Audio or SACD playback capability, connect the 6-channel line-level audio outputs to the 6-Channel Direct Inputs a. When you wish to hear the DVD-Audio or SACD playback, first select the DVD Input on the AVR in order to select the video signal from the DVD player, then select the 6Channel Direct Input source for the audio. 5. Connect the digital audio outputs of a DVD player, satellite receiver, cable box or HDTV converter to the appropriate Optical or Coaxial Digital Inputs ·ª*(.
6. Connect the Video Monitor Output fib jacks on the receiver to the composite or S-Video input of your television monitor or video projector. VIDEO CONNECTION NOTE: · Composite and S-Video signals may only be viewed in their native formats. The AVR 130 will not convert signals from composite to S-Video, or vice versa. S-Video inputs may only be viewed when the AVR 130 is connected to a TV set or video display with S-Video capability. If you use both standard composite video and S-Video sources in your system, it is important that you connect both an S-Video cable and a standard composite video cable (a coax cable with an RCA plug on both ends) between the AVR 130 and your TV or projector. When it is necessary to make both types of connections to your TV set, use different inputs if possible. Consult the instructions for your TV set or projector for more information on connecting both types of signals. 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 with high-current draw equipment such as power amplifiers.

The total power draw to each outlet may not exceed 100 watts. The Switched AC Accessory 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 a remote control command. The Unswitched AC Accessory 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 non-switched 120-volt AC wall outlet. You're almost ready to enjoy the AVR 130! 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. Center Front Speaker No more than 24" 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 at your normal listening position, 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. Once the speakers have been placed in the room and connected, the remaining steps in the setup process are to program the AVR 130'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. 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 left front, center and right front 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 left front and right front 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. C) Optimal placement of surround speaker Left Front Speaker Right Front Speaker A) Front-Channel Speaker Installation with DirectView 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 You are now ready to power up the AVR 130 to begin these final adjustments. 1. Plug the Power Cord , into an unswitched AC outlet. 2. Press the Main Power Switch 1 in until it latches and the word "OFF" on the top of the switch disappears inside the front panel. Note that the Power Indicator 2 will turn amber, indicating that the unit is in the Standby mode. 3. Remove the protective plastic film from the frontpanel lens.
If left in place, it will affect the performance of your remote control. 4. Install the three 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. 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 SYSTEM CONFIGURATION 15 SYSTEM CONFIGURATION 5. Turn the AVR 130 on either by pressing the System Power Control 3 on the front panel, or via the remote by pressing the AVR Selector f or any of the Input Selectors eg 39 on the remote. The Power Indicator 3 will turn blue to confirm that the unit is on, and the frontpanel display will illuminate. The factory default setting for the speaker configuration is to have "small" speakers at all positions with a subwoofer installed.
If you have this type of "sub/ satellite" speaker system, no further configuration is needed and you may skip to the next section. With the AVR 130 turned on, follow these steps to configure the speakers: 1. Press the Speaker Select Button 6 35 . When SPEAKER SIZE appears in the Lower Display Line ¯ press the Set Button o@. 2. When FRONT SPEAKER appears in the Lower Display Line ¯ press the Set Button o@ to continue. 3. Press the //¤ Buttons n on the remote or the </> Buttons) on the front panel to select either FRONT LARGE or FRONT SMALL, as described by the definitions shown above. When the desired selection appears, press the Set Button o@. When FRONT 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 FRONT LARGE is selected, a fullrange output will be sent to the front-left and frontright outputs, and NO low-frequency signals will be sent to the subwoofer output. 4. When CENTER SPEAKER appears in the Lower Display Line ¯ press the Set Button o@. 5. Press the //¤ Buttons n on the remote or the </> Buttons) on the front panel to select either CENTER LARGE, CENTER SMALL or CENTER NONE, using the same guidelines as above for Large and Small. When the desired selection appears, press the Set Button o@. When CENTER SMALL is selected, lowfrequency center channel 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 center channel speaker. When CENTER LARGE is selected, a fullrange output will be sent to the center speaker output, and NO center channel low-frequency information will be sent to the subwoofer output.
NOTE: If you choose Logic 7 as the surround mode, the AVR 130 will not make the LARGE option available for the center speaker. This is due to the requirements of Logic 7 processing, and does not indicate a problem with your receiver. When CENTER NONE is selected, no signals will be sent to the center channel output. 6. When SURR SPEAKER appears in the Lower Display Line ¯ press the Set Button o@.
7. Press the //¤ Buttons n on the remote or the </> Buttons) on the front panel to select either SURR LARGE, SURR SMALL or SURR NONE, using the same guidelines as above for Large and Small. When the desired selection appears, press the Set Button o@. When SURR SMALL is selected, lowfrequency surround-channel 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 surround speaker.
When SURR LARGE is selected, a full-range output will be sent to the surround-channel outputs, and NO surround-channel signals will be sent to the subwoofer output. When SURR NONE is selected, surround sound information will be split between the frontleft and front-right outputs. Note that for optimal performance when no surround speakers are in use, the Dolby 3 Stereo mode should be used instead of Dolby Pro Logic II. 8. When S-W SPEAKER appears in the Lower Display Line ¯, press the Set Button o@. 9. Press the //¤ Buttons n on the remote or the </> Buttons) on the front panel to select the option described below that best describes your system. When the desired selection appears, press the Set Button o@. The choices available for the subwoofer position will depend on the settings for the other speakers, particularly the front left/right positions.