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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 2550. You'll find the answers to all your questions on the HARMAN KARDON AVR 2550 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 2550**
> **User guide HARMAN KARDON AVR 2550**
> **Operating instructions HARMAN KARDON AVR 2550**
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> **Instruction manual HARMAN KARDON AVR 2550**

AVR 2550 Audio/Video Receiver
OWNER'S MANUAL

harman/kardon   AVR 2550
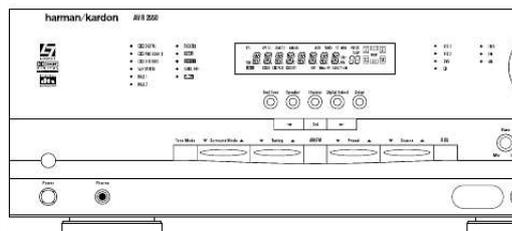
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Manual abstract:

While complex digital systems are hard at work within the AVR 2550 to make all of this happen, hookup and operation are simple. Color-keyed connections and a programmable remote control make the AVR 2550 easy to use. To obtain the maximum enjoyment from your new receiver, we urge you to take the time 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 2550 is able to deliver. If you have any questions about this product, its installation or its operation, please contact your dealer. He is your best local source of information. Description and Features The AVR 2550 is among the most versatile and multi-featured A/V receivers available, incorporating a wide range of listening options. In addition to Dolby Digital and DTS decoding for digital sources, a broad choice of analog surround modes are available for use with sources such as CD, VCR, TV broadcasts and the AVR's own FM/AM tuner. Along with the latest Dolby ProLogic II® decoding technology, Dolby 3 Stereo, 5 Ch 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 Harman Kardon exclusive is VMAxTM, 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 2550 is easy to configure so that it provides the best results with your speakers and specific listening-room environment. For the ultimate in flexibility, the AVR 2550 features connections for three video devices, all with both composite and S-Video inputs. Two additional audio inputs are available, and a total of four digital inputs make the AVR 2550 capable of handling all the latest digital audio sources. Coax and optical digital outputs are available for direct connection to digital recorders.

The AVR 2550's powerful amplifier uses traditional Harman Kardon high-current design technologies to meet the wide dynamic range of any program selection. Harman Kardon invented the high-fidelity receiver more than forty-seven years ago. With stateof-the-art circuitry and time-honored circuit designs, the AVR 2550 is one of the finest receivers ever offered by Harman Kardon within its price range. s Onboard Dolby Digital and DTS Decoding Using Crystal® Chip Technology s Harman Kardon's Exclusive Logic 7 and VMAx Modes s Dolby Laboratory's latest ProLogic II decoding technology. s Multiple Digital Inputs and Outputs s Remote with Internal Codes Capability INTRODUCTION 3 Safety Information Important Safety Information Verify Line Voltage Before Use Your AVR 2550 has been designed for use with 220-240-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 dealer before plugging the unit into a wall outlet. Do Not Use Extension Cords To avoid safety hazards, use only the power cord attached to your unit. We do not recommend that extension cords be used with this product. As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Damaged power cords should be replaced immediately by an authorized service depot with a cord meeting factory specifications. Handle the AC Power Cord Gently When disconnecting the power cord from an AC outlet, always pull the plug, never pull the cord. If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet. Do Not Open the Cabinet There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee.

If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service station. 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. 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 Ù #Û % $ AVR 2550 Ú Ò Ô Ó II DTS HDCD PCM OPT12 COAX12 ANALOG RDS TA AUTO TUNED ST MEM SL MULTI SBL SR SBR PL II 3ST DSP KHz MHz VMAx NF LOGIC 7 CM (* 2 AM/FM RDS 1 2 & ^ 3 4 5 6 7 8 9) !@ 1 Main Power Switch 2 System Power Control 3 Power Indicator 4 Headphone Jack 5 Selector Buttons 6 Tone Mode 7 Surround Mode Selector 8 Tuning 9 Tuner Band Selector) Preset Stations Selector ! Input Source Selector @ RDS Select Button # Test Tone Selector $ Surround Mode Indicators % Remote Sensor Window ^ Bass Control & Balance Control * Treble Control (Volume Control Ó Set Button Ô Input Indicators Delay Ò Digital Input Selector Ú Main Information Display Û Channel Select Button Ù Speaker Select Button 1 Main Power Switch: Press this button to apply power to the AVR 2550.*

When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the orange LED 3 surrounding the System Power Control 2. This button MUST be pressed in to operate the unit. To turn the unit off completely and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel so that the word "OFF" may be read at the top of the switch. NOTE: This switch is normally left in the "ON" position.

2 System Power Control: When the Main Power Switch 1 is "ON," press this button to turn on the AVR 2550; press it again to turn the unit off (to Standby). Note that the Power Indicator surrounding the switch 3 will turn green when the unit is on. 3 Power Indicator: This LED will be illuminated in orange when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn green. 4 Headphone Jack: This jack may be used to listen to the AVR 2550's output through a pair of headphones. Be certain that the headphones have a standard 6.3 mm stereo phone plug. Note that the speakers will automatically be turned off when the headphones are connected. 5 Selector Buttons: When you are establishing the AVR 2550's configuration settings, use these buttons to select from the choices available, as shown in the Main Information Display Ú. 6 Tone Mode: Pressing this button enables or disables the Balance, Bass and Treble tone controls.

*When the button is pressed so that the words TONE I N appear in the Main Information Display Ú, the settings of the Bass ^ and Treble * controls and of the Balance control & will affect the output signals. When the button is pressed so that the words TONE OUT appear in the Main Information Display Ú, the output signal will be "flat, without any balance, bass or treble " alteration. FRONT PANEL CONTROLS 5 Front Panel Controls 7 Surround Mode Selector: Press this button to change the surround mode by scrolling through the list of available modes. Note that Dolby Digital and DTS modes can be selected only when a digital input is used (See page 23 for more information about surround modes.) 8 Tuning Selector: Press the left side of the button to tune lower frequency dicators DTS Mode Indicator Dolby Digital Indicator Coaxial Digital Input Indicators Dolby Pro Logic II Indicator Analog Input Indicator Dolby 3 Stereo Indicator I J K L M N O P VMAx Mode Indicator DSP Mode Indicator Logic 7 Mode Indicators Tuned Indicator Main Information Display Night Mode Indicator Auto Indicator Speaker/Channel Input Indicators Q R S T U V W Preset Number/Sleep Timer Preset Indicator Sleep Indicator Memory Indicator Stereo Indicator RDS Indicator Traffic Program Indicator A BitstreamTM Indicators: When the input is a digital source, one of these indicators will light to display the specific type of signal in use.*

B Optical Source Indicators: These indicators light to show when a Optical Digital Input has been selected. C DTS Mode Indicator: This indicator illuminates when the DTS mode is selected. D Dolby Digital Indicator: This indicator illuminates when Dolby Digital mode is selected. E Coaxial Digital Input Indicators: These indicators light to show when a Coaxial Digital Input has been selected. F Dolby Pro Logic II Indicator: This indicator lights when the Dolby Pro Logic II mode has been selected.

G Analog Input Indicator: This indicator lights when an analog input source has been selected. H Dolby 3 Stereo Indicator: This indicator lights when the Dolby 3 Stereo Mode has been selected. Only S T (Stereo) will light when "Surround Off" has been selected. Then all Surround Modes are turned off and the unit will play in pure stereo mode. I VMAx Mode Indicator: This indicator illuminates to show that the VMAx mode is in use. V M A x F appears when the Far Field VMAx mode is selected; V M A x N appears when the Near Field VMAx mode is selected. (See page 23 for a description of the VMAx Modes.) J DSP Mode Indicator: This indicator lights when any of the surround modes created by Digital Signal Processing, or DSP are in use. These modes include Hall 1, Hall 2, Theater and 5 Channel Stereo. K Logic 7 Mode Indicators: These indicators illuminate when the Logic 7 mode is in use.

LOGIC 7 C appears for the Cinema version of Logic 7, LOGIC 7 M appears for the Music version of Logic 7. (See page 23 for a description of the Logic 7 Modes.) L Tuned Indicator: This indicator illuminates when a station is being received with sufficient signal strength to provide acceptable listening quality. M Main Information Display: This display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of unit's operation. N Night Mode Indicator: This indicator lights when the AVR 2550 is in the Night mode, which preserves the dynamic range of digital program material at low volume levels. O Auto Indicator: This indicator illuminates when the tuner's Auto mode is in use. P Speaker/Channel Input Indicators: These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration. The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and the two outer boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for that position.

(See page 18 for more information on configuring speakers.) The letters inside each of the center boxes display active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels begin received at the digital input. When the letters flash, the digital input has been interrupted.

(See page 19 for more information on the Channel Indicators). Q Preset Number/Sleep Timer: When the tuner is in use, these numbers indicate the specific preset memory location in use. (See page 27 for more information on preset stations.) When the Sleep function is in use, these numbers show how many minutes remain before the unit goes into the Standby mode. FRONT PANEL INFORMATION DISPLAY 7 Front Panel Information Display R Preset Indicator: This indicator lights when the tuner is in use to show that the Preset Number/Sleep Timer Q is showing the station's preset memory number. (See page 27 for more information on tuner presets.) S Sleep Indicator: This indicator lights when the Sleep function is in use. The numbers in the Preset/Sleep Number Indicators will show the minutes remaining before the AVR 2550 goes into the Standby mode. (See page 22 for more information on the Sleep function.) T Memory Indicator: This indicator flashes when entering presets and other information into the tuner's memory.

U Stereo Indicator: This indicator illuminates when an FM station is being tuned in stereo. V RDS Indicator: This indicator illuminates when the station tuned is transmitting RDS data. W Traffic Program Indicator: This indicator illuminates if the RDS station tuned sometimes transmits traffic information (see page 28 for more information on RDS). 8 FRONT PANEL INFORMATION DISPLAY Rear Panel Connections ¶ ¢ ¡ b · d ° ¤ ª TM ·/ a £< >§< > < c, fl fi 0 1 2 3 4 5 6 7 8 9 A B Tape Inputs Tape Outputs Video 1 Audio Inputs AM Antenna Video 1 Audio Outputs DVD Audio Inputs FM Antenna CD Inputs Digital Audio Outputs Coaxial Digital Inputs Subwoofer Output Video Monitor Outputs C D E F G H I J K L M Front/Center Speaker Outputs Surround Speaker Outputs Switched AC Accessory Outlet Unswitched AC Accessory Outlet AC Power Cord DVD Video Inputs Video 1 Video Outputs Video 2 Audio Inputs Video 2 Video Inputs Optical Digital Inputs Video 1 Video Inputs 0 Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder. 1 Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder.

2 Video 1 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other video source. 3 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. 4 Video 1 Audio Outputs: Connect these jacks to the RECORD/INPUT audio jacks on a VCR or any other Audio recorder. 5 DVD Audio Inputs: Connect these jacks to the analog audio jacks on a DVD or other video source. 6 FM Antenna: Connect the supplied indoor or an optional external FM antenna to this terminal. 7 CD Inputs: Connect these jacks to the analog output of a compact disc player or CD changer. 8 Digital Audio Outputs: Connect these jacks to the matching digital input connector on a digital recorder such as a CD-R or MiniDisc recorder. 9 Coaxial Digital Inputs: Connect the coax digital output from a DVD player, HDTV receiver, LD player, MD player 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. A 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. REAR PANEL CONNECTIONS 9 Rear Panel Connections B Video Monitor Outputs: Connect these jacks to the composite and/or S-Video input of a TV monitor or video projector to view the output of any video source selected by the receiver's video switcher. C Front/Center Speaker Outputs: Connect these outputs to the matching + or terminals on your front/center speakers.

When making speaker connections, always make certain to maintain correct polarity by connecting the red (+) terminals on the AVR 2550 to the red (+) terminals on the speaker and the black () terminals on the AVR 2550 to the black () terminals on the speakers. (See page 14 for more information on speaker polarity.) D Surround Speaker Outputs: Connect these outputs to the matching + or terminals on your left and right surround speakers. When making speaker connections always make certain to maintain correct polarity by connecting the red (+) terminals on the AVR 2550 to the red (+) terminals on the speakers and the black () terminals on the AVR 2550 to the black () terminals on the speakers. See page 14 for more information on speaker polarity.

E Switched AC Accessory 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. F 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 2550 is on or off (in Standby), provided that the Main Power switch 1 is on. Note: The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts from the Unswitched Outlet F and 50 W from the Switched Outlet E. G AC Power Cord: Connect the AC plug to an unswitched AC wall output. H DVD Video Inputs: Connect these jacks to the composite or S-Video output jacks on a DVD player or other video source. I Video 1 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jack on a VCR. J Video 2 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other video source. K Video 2 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a second VCR or other video source. L Optical Digital Inputs: Connect the optical digital output from a DVD player, HDTV receiver, LD player, MD player or CD player to these jacks.

The signal may be either a Dolby Digital signal, a DTS signal or a standard PCM digital source. M Video 1 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a VCR or other video source. Note: Either the Video or S-Video output of any S-Video source must be connected to the AVR 2550, not both in parallel, otherwise the video may be disturbed or its performance be adversely effected. 10 REAR PANEL CONNECTIONS Remote Control Functions 0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Power On Button IR Transmitter Window Program Indicator Power Off Button Input Selectors AVR Selector AM/FM Tuner Select Test Button Sleep Button Surround Mode Selector Night Mode Channel Select Button / / ¤ Buttons < Button Set Button Digital Select Numeric Keys Tuner Mode Direct Button Tuning Up/Down Macro Buttons Transport Controls Skip Up/Down Buttons RDS Select Button Preset Up/Down Clear Button Memory Button Delay/Prev. Ch. > Button Speaker Select Spare Button Volume Up/Down TV/Video Selector Mute c bd POWER a e f g 7 8 ON OFF X TAPE AVR VCR VID1 DVD TV VID2 CD CBL/SAT AM/FM W SLEEP CH. SURR. TEST NIGHT VOL. V U T S j k l n p GU ID E ME N CH . SP K R U m o SET E PR q 1 5 2 6 9 DIRECT 3 7 0 CLEAR 4 8 MEM V.

C H TA L L DE AY R I DIG EX IT s r t u v TUN-M z TUNING RDS PRESET `y x M4 M1 M2 M3 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 32 for a list of these functions. w DWN UP SKIP 2550 REMOTE CONTROL FUNCTIONS 11 Remote Control Functions IMPORTANT NOTE: The AVR 2550's remote may be programmed to control up to seven devices, including the AVR 2550. Before using the remote, it is important to remember to press the Input Selector button 4 that corresponds to the unit you wish to operate.

In addition, the AVR 2550's remote is shipped from the factory to operate the AVR 2550 and most Harman Kardon CD or DVD players and cassette decks. The remote is also capable of operating a wide variety of other products using the control codes that are part of the remote. Before using the remote with other products, follow the instructions on pages 29 to program the proper codes for the products in your system. It is also important to remember that many of the buttons on the remote take on different functions, depending on the product selected using the Input Selectors. The descriptions shown here primarily detail the functions of the remote when it is used to operate the AVR 2550.

(See page 32 for information about alternate functions for the remote's buttons.) 0 Power On Button: Press this button to turn on the power to a device selected by pressing one of the Input Selectors 4 (except Tape). 1 IR Transmitter Window: Point this window towards the AVR 2550 when pressing buttons on the remote to make certain that infrared commands are properly received. 2 Program Indicator: This three-color indicator is used to guide you through the process of programming the remote. See page 29 for information on programming the remote. 3 Power Off Button: Press this button to place the AVR 2550 or a selected device unit in the Standby mode. 4 Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR is not turned on, this will power up the unit. Next, it will select the source shown on the button as the input to the AVR. Finally, it will change the remote control so that it controls the device selected.

After pressing one of these buttons you must press the AVR Selector button 5 again to operate the AVR's functions with the remote. 5 AVR Selector: Pressing this button will switch the remote so that it will operate the AVR's functions. If the AVR is in the Standby mode, it will also turn the AVR on. 6 AM/FM Tuner Select: Press this button to select the AVR's tuner as the listening choice. Pressing this button when the tuner is in use will select between the AM and FM bands. 7 Test Tone: Press this button to begin the sequence used to calibrate the AVR 2550's output levels. (See page 20 for more information on calibrating the AVR 2550.) 8 Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR 2550 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 B Channel Select Button: This button is used to start the process of setting the AVR 2550's output levels with an external source. Once this button is pressed, use the //¤ buttons C to select the channel being adjusted, then press the Set button E, followed by the //¤ buttons again, to change the level setting. (See page 27 for more information.) C //¤ Buttons: These are multi-purpose buttons. They will be used most frequently to select a surround mode. These buttons are also used to increase or decrease output levels when configuring the unit, to select speaker configuration or to select the digital inputs.

They are also used to enter delay time settings after the Delay button T has been pressed. When the AVR 2550 remote is being programmed for the codes of another device, these buttons are also used in the "Auto Search" process (See page 29 for more information on programming the remote.) D < Button: This button does not have a function with the AVR 2550. When a DVD player or TV is selected, it may be used to navigate the menus of those devices. E Set Button: This button is used to enter settings into the AVR 2550's memory.

It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. F Digital Select: Press this button to assign one of the digital inputs 9 L to a source. (See page 25 for more information on using digital inputs.) G 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, VCR or Sat receiver 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. H Tuner Mode: Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that the AUTO indicator O goes out, pressing the Tuning buttons J8 will move the frequency up or down in single-step increments. When the FM band is in use and the AUTO indicator O is on, pressing this button will change to monaural reception making even week stations audible. (See page 27 for more information.) Hold the button pressed for two seconds to turn off the Sleep mode setting.

Note that this button is also used to change channels on your TV, VCR and SAT receiver when selected. 9 Surround Mode Selector: Press this button to begin the process of changing the surround mode. After the button has been pressed, use the //¤ buttons C to select the desired surround mode (See page 24 for more information). Note that this button is also used to tune channels when the TV, VCR and SAT receiver is selected using the Input Selector 4. A Night Mode: Press this button to activate the Night mode. This mode is available only with Dolby Digital encoded digital sources, and it preserves dialog (center channel) intelligibilty at low volume levels (See page 26 for more information). 12 REMOTE CONTROL FUNCTIONS Remote Control Functions I Direct Button: Press this button when the tuner is in use to start the sequence for direct entry of a station's frequency. After pressing the button simply press the proper Numeric Keys G to select a station (See page 27 for more information on the tuner). J Tuning Up/Down: When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the Tuner Mode button H has been pressed or the Band button @ on the front panel was held pressed so that the AUTO indicator O is illuminated, pressing either of the buttons will cause the tuner to seek the next station with acceptable signal strength for quality reception.

When the AUTO indicator O is NOT illuminated, pressing these buttons will tune stations in single-step increments. (See page 27 for more information.) K Macro Buttons: Press these buttons to store or recall a "Macro", which is a pre-programmed sequence of commands stored in the remote. (See page 30 for more information on storing and recalling macros.) L Transport Buttons: These buttons do not have any functions for the AVR, but they may be programmed for the forward/reverse play operation of a wide variety of CD or DVD players, and audio or video- cassette recorders.

(See page 29 for more information on programming the remote.) M Skip Up/Down Buttons: These buttons do not have a direct function with the AVR 2550, but when used with a compatibly programmed CD or DVD changer they will change the tracks on the disc currently being played in the changer.

N RDS Select Button: Press this button to display the various messages that are part of the RDS data system of the AVR 2550's tuner. (See page 28 for more information on RDS). O Preset Up/Down: When the tuner is in use, press these buttons to scroll through the stations programmed into the AVR 2550's memory.

When CD or DVD is selected using the Input Selector button 4, these buttons may function as Slow Fwd/Rev (DVD) or "+10" (CD). P Clear Button: Press this button to clear incorrect entries when using the remote to directly enter a radio station's frequency. Q Memory Button: Press this button to enter a radio station into the AVR 2550's preset memory. After pressing the button the MEMORY indicator S will flash; you then have five seconds to enter a preset memory location using the Numeric Keys G. (See page 27 for more information.) R Delay/Prev Ch.: Press this button to begin the process for setting the delay times used by the AVR 2550 when processing surround sound. After pressing this button, the delay times are entered by pressing the Set button E and then using the //⌷ buttons C to change the setting. Press the Set button again to complete the process. (See page 19 for more information.

) S > Button: This button does not have a function with the AVR 2550. When a DVD player or TV is selected, it may be used to navigate the menus of those devices. T Speaker Select: Press this button to begin the process of configuring the AVR 2550's Bass Management System for use with the type of speakers used in your system. Once the button has been pressed, use the //⌷ buttons C to select the channel you wish to set up. Press the Set button E and then select the speaker type (see page 17 for more information.) U Spare Button: This button does not have any function for the operation of the AVR 2550, but it can turn on/off the Multiroom system on other Harman Kardon AV-receivers with that feature and the Sub-function on DVD players. V Volume Up/Down: Press these buttons to raise or lower the system volume. W TV/Video Button: This button does not have a direct function on the AVR 2550, 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. X Mute: Press this button to momentarily silence the AVR 2550 or TV set being controlled, depending on which device has been selected. When the AVR 2550 remote is being programmed to operate another device, this button is pressed with the Input Selector button 4 to begin the programming process. (See page 29 for more information on programming the remote.) NOTE: As any of the remote buttons pressed is active with the device selected, the corresponding Selector button 45 will briefly flash red to confirm your selection. REMOTE CONTROL FUNCTIONS 13 Installation and Connections 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. 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 2550. 8. Connections to a subwoofer are normally made via a line level audio connection from the Subwoofer Output A 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.

Note: Speaker sets with two front satellites and a passive subwoofer must be connected to the front speaker outputs C only rather than to the Subwoofer Output A. 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. Important Note : In order to clearly identify all connectors and simplify nstallation, as per the new EIA/CEA-863 standard, all connections are colour coded as follows: For Speakers and Audio In/Outputs: White (Left, speakers front) and Red (Right, speakers front). For Speakers: Green (Center), Blue (Left Surround) and Grey (Right Surround). For Audio Output: Purple (Subwoofer). For Composite Video In/Outputs: Yellow. For Digital Audio In/Outputs: Orange. 1.

Connect the analog output of a CD player to the CD inputs 7. 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 0. Connect the analog Record/In jacks on the recorder to the Tape Output jacks 1 on the AVR 2550. 3. Connect the output of any digital sources to the appropriate input connections on the AVR 2550 rear panel. Note that the Optical and Coaxial digital inputs L9 may be used with a Dolby Digital or DTS source or the output of a conventional CD, MD or LD player's PCM (S/P-DIF) output. 4. Connect the Coaxial or Optical Digital Outputs 8 on the rear panel of the AVR to the matching digital input connections on a CD-R or MiniDisc recorder.

5. Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM and GND screw terminals 3. 6. Connect the supplied FM antenna to the FM (75 ohm) connection 6.

The FM antenna may be an external roof antenna, an inside powered or wire lead antenna or a connection from a cable system. Note that if the antenna or connection uses 300-ohm twin-lead cable, you must use a 300-ohm-to-75-ohm adapter to make the connection. 7. Connect the front, center and surround speaker outputs CD 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 an area greater than 2 mm2.

Cable with an area of 1.5 mm2 may be used for short runs of less than 4 m. We do not recommend that you use cables with an area less than 1mm2 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 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 2550 and speaker. NOTE: While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase and optimal performance, consult the identification plate on your speaker or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer. 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. To ensure best video performance S-Video sources should be connected to the AVR 2550 only with their S-Video In/ Outputs, not with their composite video connectors too. 1. Connect a VCR's audio and video Play/Out jacks to the Video 1 or Video 2 In jacks 2 K M J on the rear panel. The Audio and Video Record/In jacks on the VCR should be connected to the Video 1 Out jacks 4 I on the AVR 2550.

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 K J . 3. Connect the analog audio and video outputs of a DVD or laser disc player to the DVD jacks 5H. 4.

Connect the Video Monitor Out B jacks on the receiver to the composite and S-Video input of your television monitor or video projector. Video Connection Note: · S-Video or Composite video signals may only be viewed in their native formats and will not be converted to the other format. 14 INSTALLATION AND CONNECTIONS Installation and Connections SCART A/V Connections For the connections described above your video device needs RCA (cinch) connectors or/and SVideo connectors for all Audio and Video signals: Any normal video device (Not SVHS or High 8) for only playback needs 3 RCA jacks, VCRs for record and playback even 6 RCA jacks. Any S-Video device (SVHS, High 8) needs 2 RCA (Audio) and 1 S-Video jack (Video), if it´s a playback unit, or 4 RCA (Audio In/Out) and 2 S-Video (Video In/Out) jacks, if it´s a recording VCR. Many european video devices are equipped with RCA (Cinch) or S-Video jacks only partially, not with all audio and video in/outputs needed as described above, but with a so called Scart or Euro-AV connector (almost rectangular jack with 21 pins, see drawings on this page).

In that case the following Scart to Cinch adapters or cables are needed: · Units for playback, such as satellite receivers, camcorders, DVD or LD players, need an adapter from Scart to 3 RCA plugs, see fig. 1 (normal video devices) or from Scart to 2 RCA+1 SVideo plugs, see fig. 4 (S-Video devices). · HiFi VCRs need an adapter from Scart to 6 RCA plugs, see fig. 2 (normal video), or from Scart to 4 Audio+2S-Video jacks, see fig. 5 (S-Video VCR). Read carefully the instruction attached to the adapter to find which of the six plugs is used for the record signal to the VCR (connect with the AVR´s Out jacks) and for the playback signal from the VCR (connect with the AVR´s In jacks). Do not misconnect Audio and Video signals. Don´t hesitate to consult your dealer, if you are uncertain. · If you use only normal video devices the TV monitor needs an adapter from 3 RCA plugs to Scart (fig.

3) only. If also S-Video devices are used an adapter from 2 RCA+1S-Video plugs to Scart is needed additionally (fig. 6), connected to the SCART input on your TV that is provided for S-Video. Note that only the video plugs (the "yellow" cinch plug in fig. 3 and the S-Video plug in fig. 6) must be connected to the TV Monitor Output B, and the volume on the TV must be reduced to minimum. Important Note for Adapter Cables: If the cinch connectors of the adapter you'll use are labeled, connect the Audio and Video "In" plugs with the corresponding Audio and Video "In" jacks on the AVR 2550 (and with a VCR connect the "Out" plugs to the "Out" jacks on the AVR). Note that with some adapter types it may be just turned around: If no signal is audible/ visible when the VCR is playing connect the "Out" plugs to the "In" jacks on the AVR and turned around. If the adapter plugs are not labeled in that way, pay attention to the signal flow direcFigure 1: SCART/Cinch-Adapter for playback; signal flow: SCART ¡ Cinch Black Black Yellow Yellow Red Red Black Black Red Red Blue Blue1 Figure 2: SCART/Cinch-Adapter for record and playback; signal flow: SCART Cinch Black Black Yellow Yellow Green Green1 White White Figure 3: Cinch/SCART-Adapter for playback; signal flow: Cinch ¡ SCART Figure 4: SCART/S-Video Adapter for playback; signal flow: SCART ¡ Cinch Yellow Yellow Red Red Rot Red Schwarz Black S-Video In S-Video In Schwarz Black Rot Red Blau Blue1 Figure 5: SCART/S-Video Adapter for record and playback; signal flow: SCART Cinch Rot Red Gelb Yellow S-Video In S-VideoIn S-VideoOut S-Video Out Figure 6: SCART/S-Video Adapter for playback; signal flow: Cinch ¡ SCART 1 Schwarz Black S-Video Out S-VideoOut Also other colours possible, e.g.

brown and grey. tions as shown in the diagrams above and in the instruction attached to the adapter. If uncertain, don't hesitate to consult your dealer. Important Notes for S-Video connections: 1. Only the S-Video In/Out of S-Video devices must be connected to the AVR, NOT both, normal video and S-Video In/Outputs (except the TV, see item 2).

2. Like most common AV units the AVR 2550 does not convert the Video signal to S-Video or vice versa. Thus both connections must be made from the AVR 2550 to the TV if both, Video and S-Video sources, are used, and the appropriate input on the TV must be selected. Important Note for the Use of SCART-Cinch Adapters: When video sources are connected to the TV directly with a SCART cable, specific control signals apart from Audio/Video signals will be fed to the TV. These specific signals are: With all video sources, the signal for automatic input selection that switches the TV automatically to the appropriate input as soon as the video source is started.

And with DVD players, the signals automatically turning the TV to 4:3/16:9 format (with 16:9 TVs or 4:3 TVs with 16:9 capability) and turning the RGB video decoder of the TV on or off, depending on the DVD player´s setting. With any adapter cable, these control signals will be lost and the appropriate setting of the TV must be made manually. INSTALLATION AND CONNECTIONS 15 Installation and Connections 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 with highcurrent draw equipment such as power amplifiers. The total power draw to the Unswitched Outlet F must not exceed 100 watts, that to the Switched Outlet E 50 watts. The Switched E outlet will receive power only when the unit is on completely. 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 turn to Standby mode only when they are used with switched outlets, and cannot be fully turned on using the outlet alone without a remote control command. The Unswitched F outlet will receive power as long as the unit is plugged into a powered AC outlet and the Main Power Switch 1 is on. Finally, when all connections are complete, plug the power cord into a nonswitched 220-240-volt AC wall outlet.

You're almost ready to enjoy the AVR 2550! They should also be at least 0.5 meter from your TV set unless the speakers are magnetically shielded to avoid colourings on the TV screen. Note that most speakers are not shielded, even with complete surround sets only the Center speaker may be. 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. 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 you.

If side-wall mounting is not practical, the speakers may be placed on a rear wall, behind the listening position. The speakers should be no more than two meters behind the rear of the seating area. Subwoofers produce largely 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 15cm 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. No more than 2m when rear-mounted speakers are used Center Front Speaker No more than 60cm 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 Speaker Selection No matter which type or brand of speakers is used, the same model or brand of speaker should be used at least 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.

Optional Rear-Wall Mounting Speaker Placement The placement of speakers in a multichannel home-theater system can have a noticeable impact on the quality of sound reproduced. 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 60cm above or below the tweeter in the center-channel speaker. 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. 16 INSTALLATION AND CONNECTIONS System Configuration Once the speakers have been placed in the room and connected, the remaining steps are to program the system configuration memories. With the AVR 2550 two kind of memories are used, those associated individually with the input selected, e.g. surround modes, and others working independently from any input selected like speaker output levels, or delay times used by the surround sound processor.

Settings to be Made With Each Input Used The AVR 2550 features an advanced memory system that enables you to establish different settings for the speaker configuration, digital input and surround mode for each input source. This flexibility enables you to custom tailor the way in which you listen to each source and have the AVR 2550 memorize them. This means, for example, that you may associate different surround modes and analog or digital inputs with different sources, or set different speaker configurations with the resultant changes to the bass management system or the use of the Center speaker. Once these settings are made, they will automatically be recalled whenever you select an input. The default settings for the AVR 2550, as it is shipped from the factory, have all inputs set for an analog source (except for the DVD input, which has the Coaxial Digital Input 1 9 as the default), with stereo as the surround mode, the front left and right speakers set to "large" (with surround modes other speakers to "small"), and a subwoofer connected. Before using the unit, you will probably want to change these settings for most inputs so that they are properly configured to reflect the use of digital or analog inputs, the type of speakers installed and the surround mode associated with the input. Remember, since the AVR 2550's memory system keeps the settings for each input separate from the other inputs, you will need to make these adjustments for each input used.

However, once they are made, further adjustment is only required when system components are changed. To make this process as quick and as easy as possible, we suggest that with each of these settings to be made you step through each input. Once you have completed the settings for the first input, many settings may be duplicated for the remaining inputs.

The items that follow will describe the individual settings required for each input. First Turn On You are now ready to power up the AVR 2550 to begin these final adjustments. 1. Plug the Power Cable E 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 3 will turn orange, indicating that the unit is in the Standby mode. 3. Remove the protective plastic film from the front-panel lens. If left in place, the film may 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. Input Setup The first step in configuring the AVR 2550 is to select an input. This may be done by pressing the front panel Input Source Selector ! until the desired input's name appears momentarily in the Main Information Display M, and the green LED lights next to the input's name in the front panel Input Indicators Ô. The input may also be selected by pressing the appropriate Input Selector on the remote control 46. The second step is to associate one of the digital inputs with the selected input source (if this is needed, otherwise the selected analog input will remain). Press the Digital Input Select button ÒF on the front panel or the remote. Within five seconds, make your input selection using the Selector buttons on the front panel 5 or the //¤ buttons C on the remote until the desired digital or analog input is shown in the Main Information Display M. Then press the Set button E to enter the new digital input assignment.

After the setting has been made with one input, repeat as described above with all inputs in use. The digital input associated with the input selected can also be changed at any time later and the AVR 2550´s memory system will keep the settings until they are changed again. Speaker Setup This setup tells the AVR 2550 which type of speakers are in use. This is important as it adjusts the settings that determine which speakers receive low frequency (bass) information and whether a Center speaker should be used or not, separately for each input used. For each of these settings use the L A R G E setting if the speakers for a particular position are traditional full-range loudspeakers that are capable of reproducing sounds below 100Hz. Use the S M A L L setting for smaller, frequency-limited satellite speakers that do not reproduce sounds below 100Hz. Note that when "small" front (left and right) speakers are used, a subwoofer is required to reproduce low frequency 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. Remember that each speaker setup that differs from the default settings (see above) must be made individually for each input in use. It is best to select the Dolby Pro Logic II Movie mode for speaker setup.

Then with the currently selected input all speaker settings will be copied to other surround modes too (as far as possible) and need not be repeated with any other mode. 5. Turn the AVR 2550 on either by pressing the System Power Control 2 or the Input Source Selector ! on the front panel, or via the remote by pressing the AVR Selector 5 or any of the Input Selectors 46 on the remote. The Power Indicator 3 will turn green to confirm that the unit is on, and the Main Information Display Ú will also light up. SYSTEM CONFIGURATION 17 System Configuration With the AVR 2550 turned on, follow these steps to configure the speakers: 1.

Put the AVR 2550 in the Dolby Pro Logic II Movie mode by pressing the Surround Mode Selector button 7 on the front or 9 and then the //¤ buttons C on the remote, until DOLBY PRO LOGIC I I MOVIE appears in the Main Information Display M and the PRO LOGIC II indicator F lights. 2. Press the Speaker button T Ù on the remote or front panel. The words FNT SPKR will appear in the Main Information Display M. 3.

Press the Set button E Ó. 4. Press the //¤ buttons C on the remote or the Selector buttons 5 on the front panel until either F-LARGE or F-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 front channel sounds will be sent only to the subwoofer output. 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. This setting is not available with stereo mode to ensure purest sound by bypassing the crossovers of the DSP´s. When LARGE is selected, a full-range output will be sent to the front left and front right outputs. Depending on the subwoofer configuration (see below), the front left and right bass information may also be directed to a subwoofer. Important Note: When a speaker set with two front satellites and a passive subwoofer is used, connected to the front speaker outputs C, the fronts must be set for LARGE. 5.

When you have completed your selection for the front channels, press the Set button E Ó, and then press the //¤ buttons C on the remote or the Selector buttons 5 on the front panel to change the display to CEN SPKR. 6. Press the Set button E Ó again, and use the //¤ buttons C on the remote, or the Selector buttons 5 on the front panel, to select the option that best describes your system based on the Center speaker definitions shown in preceding section. When SMALL is selected, low frequency center channel sounds will be sent to the Fronts, if they are set for LARGE and Sub is turned off. When Sub is on, low frequency center channel sounds will be sent to the subwoofer only. When LARGE is selected, a full-range output will be sent to the center speaker output, and with analog and digital surround modes (except with the Pro Logic II Music mode) NO center channel signal will be sent to the subwoofer output. When NONE is selected, no signal will be sent to the center channel output. The receiver will operate in a "phantom" center channel mode and center channel information will be sent to the left and right front channel outputs and its bass will be sent to the subwoofer output too as long as SUB L/R+LFE is selected in the SUBWOOFER line in this menu (see below). This mode is needed if no Center speaker is used. Note that for the use of Logic 7C surround mode a Center speaker is needed, but Logic 7M works well without a Center too.

7. When you have completed your selection for the center channel, press the Set button E Ó, and then press the //¤ buttons C on the remote or the Selector buttons 5 on the front panel to change the display to SUR SPKR. 8. Press the Set button E Ó again, and then use the //¤ buttons C on the remote or the Selector buttons 5 on the front panel to select the option that best describes your system based on the Surround speaker definitions shown in preceding section. When SMALL is selected, with all digital surround modes low frequency surround channel sounds will be sent to the Fronts, when Sub is turned off, or to the subwoofer output when Sub is on.

With the analog surround modes the rear bass feed depends on the mode selected and the setting of the sub and front speakers. When LARGE is selected, a full-range output will be sent to the surround channel outputs (with all analog and digital surround modes), and, except with Hall and Theater modes, NO surround channel bass will be sent to the subwoofer output. When NONE is selected, surround sound information will be split between the front-left 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. 9.

When you have completed your selection for the surround channel, press the Set button E Ó, and then press the //¤ buttons C on the remote or the Selector buttons 5 on the front panel to change the display to S-W SPKR. 10. Press the Set button E Ó, and then press the //¤ buttons C on the remote or the Selector buttons 5 on the front panel to select the option that best describes your Subwoofer system. The choices available for the subwoofer position will depend on the settings for the other speakers, particularly the front left/right positions. If the front left/right speakers are set to SMALL, the subwoofer will automatically be set to S U B, which is the "on" position. If the front left/right speakers are set to LARGE, three options are available: · If no subwoofer is connected to the AVR 2550, press the arrow buttons C 5 so that N O N E appears in the display. When this option is selected, all bass information will be routed to the front left/right "main" speakers. · If a subwoofer is connected to the AVR 2550, you have the option to have the front left/right "main" speakers reproduce bass frequencies at all times, and have the subwoofer operate only when the AVR 2550 is being used with a digital source that contains a dedicated Low Frequency Effects, or LFE soundtrack. This allows you to use both your main and subwoofer speakers to take advantage of the special bass created for certain movies. To select that option press the arrow buttons C 5 so that S U B (LFE) appears in the display.

· If a subwoofer is connected and you wish to use it for bass reproduction in conjunction with the main front left/right speakers, regardless of the type of program source or surround mode you are listening to, press the arrow buttons C 5 so that L/R+LFE appears in the display. When this option is selected, a "complete" feed will be sent to the front left/right "main" speakers, and the subwoofer will receive the front left and right bass frequencies under the crossover frequency 80 Hz, additionally to the LFE soundtrack (see above). 11. When all speaker selections have been made for the input selected, press the Set button E Ó twice or simply wait for three seconds until the display returns to the normal mode. 18 SYSTEM CONFIGURATION System Configuration To assist in making these settings, the icons in the Speaker/Channel Input Indicators P will change as the speaker type is selected at each position. When only the inner icon box is lit, the speaker is set for "small. When the inner box " and the two outer boxes with circles inside them are lit, the speaker is set for "large." When no indicator appears at a speaker location, that position is set for "none" or "no" speaker. As an example, in the Figure below, the left front and right front speakers are set for "large," the center, left surround and right surround speakers are set for small, and a subwoofer is set. After the speaker setting has been made with one input, repeat as described above with all inputs you will use.

In most cases, the speaker type will be the same and may be quickly entered by entering the same data used for the original input. But with some music sources you may prefer to listen to your surround system without using a Center speaker, particularily when a small Center is in use with an audio performance not matching perfectly with the main front speakers. With these sources selected the Center speaker will then be turned off automatically (enter NONE for the Center setting), while its signal will be fed to the left and right Fronts. The speaker setting mode can also be changed at any time later, and the AVR 2550´s memory system will keep these settings for the input selected, until they are changed again. Surround Setup Once the speaker setup has been completed, the next setup step is to set the surround mode you wish to use with each input.

Since surround modes are a matter of personal taste, feel free to select any mode you wish you may change it later. The Surround Mode chart on page 24 may help you select the mode best suited to the input source selected. However, to make it easier to establish the initial parameters for the AVR 2550, it is best to select any Dolby Pro Logic II mode for most analog inputs and Dolby Digital for inputs connected to digital sources. In the case of inputs such as a CD Player, Tape Deck or Tuner, you may wish to set the mode to Stereo, if that is your preferred listening mode for standard stereo sources, where it is unlikely that surround encoded material will be used. Alternatively, the 5 Channel Stereo or Logic 7 Music mode may also be a good choice for stereo-only source material.

To set the surround mode you wish to use with the input selected, press the Surround Mode Selector button 7 on the front or 9 and the //¤ buttons C on the remote until the desired surround mode´s name appears in the Main Information Display M. As the modes are changed, a green LED will also light next to the mode names in the Surround Mode Indicators $ on the front panel. Note that Dolby Digital and DTS will only appear as choices when a digital input has been selected. After the surround mode setting has been made with the current input, repeat the setting with all inputs you will use. The surround mode can also be changed at any time later, and the AVR 2550´s memory system will keep the settings for the input selected, until they are changed again. Making Settings independent of selected Input After the settings described above have been made for all input sources in your system, the following settings, made with any input, will remain in effect independent of the input selected.