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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 35. You'll find the answers to all your questions on the HARMAN KARDON AVR 35 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 35**

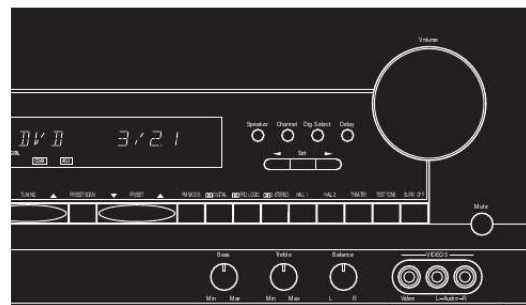
**User guide HARMAN KARDON AVR 35**

**Operating instructions HARMAN KARDON AVR 35**

**Instructions for use HARMAN KARDON AVR 35**

**Instruction manual HARMAN KARDON AVR 35**

## Harman Kardon AVR35 Audio/ Video Receiver



## Owner's Manual

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.. @@@@The AVR35 has been custom designed to provide all the excitement and detail of movie sound tracks and every subtle nuance of musical selections. With on-board Dolby \* Digital Decoding, the AVR35 delivers six discrete channels of audio that take advantage of the digital sound tracks from the latest DVD and LV releases, as well as future HDTV broadcasts. While complex digital systems are hard at work within the AVR35 to make all of this happen, hookup and operation are simple.

Color-keyed connections and a comprehensive programmable remote control make the AVR35 easy to use. To obtain 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 AVR35 is able to deliver. If you have any questions about this product, its installation or operation, please contact your dealer.

They are your best local source of information. Description and Features The AVR35 is a full-featured A/V receiver, incorporating a wide variety of listening options. In addition to Dolby Digital decoding, Dolby Pro Logic \* and Dolby 3 Stereo are available for compatibility with the tens of thousands of movies and television programs encoded with analog surround information. A choice of Hall and Theater modes is also available for use with both encoded sources and traditional two-channel stereo recordings. A total of four audio/video inputs, as well as two additional audio-only inputs, and an FM stereo/FM/AM tuner are available for the utmost flexibility. Front-panel A/V inputs simplify connections to video games or camcorders. The AVR35's powerful amplifiers use traditional Harman Kardon High-Current Design philosophies to meet the wide dynamic range of any program selection. Harman Kardon invented the highfidelity receiver more than forty-five years ago. With state-of-the-art features and time-honored circuit designs, the AVR35 is one of the finest receivers ever offered by Harman Kardon. s s s On-Board Dolby Digital Decoding Coax and Optical Digital Inputs Five Analog Surround Modes Pre-Programmed Learning Remote Control Composite Video Switching s Safety Information 2 Important Safety Information Verify Line Voltage Before Use Your AVR35 has been designed for use with 120-volt AC current.

Connection to a line voltage other than that for which it is intended can create a safety and fire hazard, and may damage the unit. If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact your selling dealer before plugging the unit into a wall outlet. Do Not Use Extension Cords To avoid safety hazards, use only the power cord attached to your unit. We do not recommend that extension cords be used with this product. As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Damaged power cords should be replaced immediately with cords meeting factory specifications. Handle the AC Power Cord Gently When disconnecting the power cord from an AC outlet, always pull the plug, never pull the cord. If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet. Do Not Open the Cabinet There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee.

If water or any metal object such as a paper clip, wire or 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 leadin 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 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.



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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. **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. **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. ATTENTION: POUR EVITER LES CHOCES ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER**

**JUSQU'AU FOND.** Safety Information 3 Cleaning When the unit gets dirty, wipe it with a clean, soft, dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the unit. Moving the Unit Before moving the unit, be certain to disconnect any interconnection cords with other components, and make certain that you disconnect the unit from the AC outlet. Important Information For the User NOTE: This equipment has been tested and found to comply with the limits for a Class-B digital device, pursuant to Part 15 of the FCC Rules.

The limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that harmful interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: s Reorient or relocate the receiving antenna. 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 technician for help. s s 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. Typographic Conventions In order to help you use this manual with the remote control, front panel controls and rear panel connections, certain conventions have been used.

EXAMPLE (bold type) indicates a s 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. specific remote control or front panel button, or rear panel con the high-frequency output of the left/right channels by as much as  $\pm 10$ dB. Set this control to a suitable position for your taste and room acoustics. 7 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. 8 Video 3 Inputs: These audio/video inputs may be used for temporary connection of video games, camcorders, digital still cameras or portable audio products. To select a source connected to these jacks, press the Vid 3 Input Selector @. 9 Tape Selector: Press this button to select the device connected to the Tape Monitor jacks as the listening source.

The previously selected source will continue to show in the Information Display 3 and the red LED above the 3, button will illuminate to remind you that you are listening to the tape monitor output. ) CD: Press this button to select the device connected to the CD Input jacks as the listening source. ! DVD Input:

Press this button to select the device connected to the DVD Play jacks \$ as the listening and viewing source. @ Video Input Selectors: Press one of these buttons to select a source connected to the rear panel Audio/Video inputs £ >, or the front panel Video 3 inputs 8. # AM/FM: Press this button to select the tuner as the AVR35's input source. When it is first pressed the last station tuned will be heard. Press it again to change between AM and FM bands. \$ Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR35 will automatically go into the Standby mode.

Each press of the button changes the time until turn-off in the following order: 90 min 30 min 80 min 20 min 70 min 10 min 60 min 5 min 50 min 1 min 40 min OFF % Tuning Button: Press the left side of the button to tune lower frequency stations and the right side of the button to tune higher frequency stations.

When a station with a strong signal is tuned, the TUNED indicator R will illuminate in the Information Display 3 A brief (1/2 second) 3. press of the button will manually tune to the next frequency increment, while pressing and holding the button for a longer period will automatically tune to the next station with a signal strong enough for acceptable reception. ^ Preset Scan: Press this button to automatically scan through the stations that have been programmed in the AVR35's memory. The tuner will play five seconds of each station before moving to the next preset station. To stop the scan when the desired station is heard, press the button again.

(See page 26 for more information on the tuner memory system.) Front Panel Controls 6 & Preset Stations Selector: Press this button to select stations that have been entered into the preset memory.



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(See page 26 for more information on tuner programming.) \* Tuner Mode: Press this button to select the stereo or mono mode for FM tuning. In the STEREO mode a Stereo indicator P will illuminate in the information display, and stereo reception will be provided when stations are transmitting stereo signals. In the MONO mode the left and right signals from stereo broadcasts will be mixed together and reproduced through all channels. Select MONO for better reception of weak signals. ( Dolby Digital Selector: Press this button to select the Dolby Digital surround mode when listening to a program that carries the Dolby Digital information. (See pages 22-25 for more information on surround modes and digital audio.) Ó Dolby Pro Logic Selector: Press this button to select the Dolby Pro Logic surround mode when listening to an analog program that is encoded with surround-sound information. (See pages 2225 for more information on surround modes.) Ô Dolby 3 Stereo Selector: Press this button to select the Dolby 3 Stereo listening mode. This mode is used primarily when a program has surround information when a center channel speaker, but no surround speakers, is installed. (See pages 2225 for more information on surround modes.) Analog Surround Mode Selectors: Press one of these buttons to select the analog surround modes.

These modes may be used with any analog program source to create a pleasing surround effect. (See pages 2225 for more information on surround modes.) Ò

Test Tone: Press this button to begin the sequence of steps used to set the AVR35's output levels. When this button is pressed, a test tone will replace the currently selected listening source. (See page 19 for more information on using the test tone to set the output levels.) Ó Surround Off: Press this button to turn off all surround processing, and to listen to a program in traditional stereo from the left front and right front speakers only. Ô Mute: Press this button to momentarily silence the speaker output of the AVR35. Ò Volume Control: Turn the knob clockwise to increase volume, counterclockwise to decrease the volume. i Delay: Press this button to begin the sequence of steps required to enter delay time settings. (See page 20 for more information on delay times.

) ^ Digital Input Selector: When playing a source that has a digital output, press this button to select between the Optical and Coaxial fl Digital inputs. (See pages 2225 for more information on digital audio.) ~ Set Button: When making choices during the setup and configuration process, press this button to enter the desired setting, as shown in the Information Display 3 into the AVR35's memory. (See 3, pages 1724 for more information on setup and configuration.) ~

Channel Select: Press this button to begin the process of selecting and configuring the AVR35's output channels.

(See pages 1724 for more information on setup and configuration.) Speaker Select Button: Press this button to begin the process of selecting the speaker positions that are used in your listening room. (See pages 1724 for more information on setup and configuration.) , Selector Buttons: When you are establishing the AVR35's configuration settings, use these buttons to select between the choices available, as shown in the Information 3. Display 3 3

Information Display: This 3 display delivers messages and status indications to help you operate the receiver.

(See page 7 for a complete explanation of the Information Display.) 3 Remote Sensor Window: The 4 sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed. Front Panel Information Display 7 T SLEEP MUTE BYPASS ANALOG S R TUNED QP MONO STEREO O AUTO N MEMORY M PRESET DIGITAL OPT PRO LOGIC COAX AC-3 3- STEREO PCM HALL 1 HALL 2 NIGHT THEATER B A C D E F G H I J K L A Mute B Bypass C Analog D Dolby Digital Indicator E Optical Source F Analog Dolby Surround Mode Indicators G Coax Source H AC-3 Indicator I PCM Indicator J Analog Surround Mode Indicators K Night Indicator L Preset Number M Preset Indicator N Memory O Auto P Stereo Indicator Q Mono Indicator R Tuned Indicator S Main Information Display T Sleep Indicator Front Panel Information Display 8 A Mute: This indicator illuminates to remind you that the AVR35's output has been silenced by pressing the Mute button Ô : Press the Mute button again to return to the previously selected output level. B Bypass: This indicator illuminates when the surround processing has been disabled by pressing the Surround Off button Ó. When this indicator is lit, the AVR35 will play traditional stereo sound using the front left and front right speakers only. C Analog: This indicator illuminates when an analog input source is in use. D Dolby Digital Indicator: This indicator illuminates when a Dolby Digital source is being played. E Optical Source: This indicator illuminates when a digital source is in use via a connection to the Optical Digital input

F Analog Dolby Surround Mode Indicators: These indicators illuminate when one of the analog (matrix) Dolby Surround modes is in use. G Coax Source: This indicator illuminates when a digital source is in use via a connection to the Coaxial Digital input fl. H AC-3\* Indicator: This indicator illuminates when the AVR35 is decoding a Dolby Digital input source. I PCM Indicator: This indicator illuminates to show that a standard PCM (SP/DIF) digital audio signal is being decoded by the digital-toanalog converter. J Analog Surround Mode Indicators: These indicators illuminate when one of the DSP generated analog surround modes is in use with an analog input source. K Night Indicator: This indicator lights when the AVR35 is in the Night mode, which prevents the AVR35 from loud playback when digital sources are in use. L Preset Number: This two-digit display indicates the station preset number that is currently in use, or that is being entered. M Preset Indicator: This indicator illuminates when one of the stations entered into the preset memory is tuned. The number that appears below the indicator is the preset station's memory. N Memory: This indicator flashes when entering presets and other information into the tuner's memory.

O Auto: This indicator illuminates when the "Auto" mode is in use for FM tuning. P Stereo Indicator: This indicator illuminates when an FM station is being tuned in stereo. Q Mono Indicator: This indicator illuminates when the tuner has been placed in the monaural mode by pressing the Tuner Mode button \*. Set the tuner for mono listening to cut noise and improve the quality of distant stereo signals. R Tuned Indicator: This indicator illuminates when a station is being received with sufficient signal strength to allow for acceptable listening quality.



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*S 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. T Sleep Indicator: This indicator is illuminated when the Sleep function is in use. The number that appears above the indicator is the number of minutes remaining before the AVR35 will return to the Standby mode. Rear Panel Connections 9 flb IN TAPE MONITOR OUT VIDEO 2 PLAY IN VIDEO 1 REC OUT DVD FM (75) CD a :fl DIGITAL INPUT OPTICAL fi> £ ¢ § VIDEO TV MONITOR OUT < AC 120V 60 Hz MODEL NO. AVR-35 HARMAN KARDON COAXIAL VIDEO 2 NORTHRIDGE CALIFORNIA, USA MADE IN CHINA ANTENNA IN OUT IN VIDEO 1 OUT DVD AC OUTLETS (120V, 60Hz) TOTAL 150W MAX AM GND REMOTE CONTROL SWITCHED TOTAL 50W MAX. FRONT CENTER CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN SURROUND AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR UNSWITCHED TOTAL 100W MAX. SUB WOOFER RIGHT LEFT CENTER SPEAKER 8 Ohm RIGHT LEFT SERIAL NO. PRE OUT SPEAKERS 8 Ohms SPEAKERS 8 Ohms TM ; £ ¢ § ¶ · ¨ ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿ À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ÷ ø ù ú û ü ý þ ÿ*

*¶ Subwoofer Pre-Out: 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 10 · Front: Connect these terminals to the front left/right speakers. ª Center: Connect these terminals to the center speaker. , Surrounds: Connect these terminals to the surround speakers. / Unswitched AC Outlet: This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR35 is on or off. NOTE: The power consumption of the device plugged into each of these outlets should not exceed 100 watts. ¯ Switched AC Outlet: This outlet may be used to power any device that you wish to have turn on when the unit is turned on with the System Power Control switch 2. < Power Cable: Connect the AC plug to a non-switched AC wall output.*

*> Video 2 Inputs: Connect these jacks to the audio and video outputs of a TV Tuner, Cable TV converter box, satellite receiver or any other audio/video source. fi TV Monitor Video Output: Connect this jack to the standard (composite) video input of a TV monitor or video projector to view the on-screen menus and the output of any standard video source selected by the receiver's video switcher. fl AC-3/PCM Coaxial Input: Connect the coax digital output from a DVD player, HDTV receiver, LV player or CD player to this jack. The signal may be either a Dolby Digital (AC-3) signal or a standard PCM digital source. AC-3/PCM Optical Input: Connect the optical digital output from a DVD player, HDTV receiver, LV player or CD player to this jack.*

*The signal may be either a Dolby Digital (AC-3) signal or a standard PCM digital source. ° Remote IR In: If the AVR35's front panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack. · Remote IR Out: This connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment.*

*a Tape Monitor In: Connect these jacks to the PLAY/OUT jacks of an audio recorder. b Tape Monitor Out: Connect these jacks to the RECORD/INPUT jacks of an audio recorder. Remote Control Functions 11 a b AVR SAT CD TAPE CBL TEST POWER SLEEP TV VCR TV c d e f g h i j k CH MUTE VOL SURR DISC DISP LEVEL SPKR `z y MENU CH SET DIGI NIGHT LEVEL DISC CD DELAY x PREV. CH EXIT AM / FM w TAPE VID1 l m n DVD VID2 DWN-TUNING-UP VID3 +10 DWN-PRESET-UP v u a Program/Command Indicator b AVR Selector c Device Control Selectors d Power Button e Sleep Button f Channel / / ¯ Buttons g Surround Mode Selector h / / ¯ Buttons i < /Channel Button j Set Button k Night Mode l Source Selectors m +10 Button n Numeric Keys o Info Button p Clear Button q Memory Button r Tuner Mode s Direct t Enter u Preset Up/Down v Tuning Up/Down w Transport Controls x Delay/Prev Ch. y >/Digital Button z Speaker Configuration `Mute Volume Test TV/VCR 1 2 3 4 5 6 7 8 9 0 o CLR INFO MEM M2 ENTER TUN-M M3 DIRECT M4 t s r p q MI AVR 35 Remote Control Functions 12 IMPORTANT NOTE: The AVR35's remote may be programmed to control up to five additional devices, including the AVR35. Before using the remote, it is important to remember to press the Device Control Selector button b c that corresponds to the unit you wish to operate. In addition, the AVR35's remote is shipped from the factory to operate the AVR35 and Harman Kardon CD 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 2829 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 AVR35. (See pages 2831 for information about alternate functions for the remote's buttons.) a Program/Command Indicator: This LED is used as an indicator to assist in programming the remote control. (See pages 2831 for more information on programming the AVR35.) b AVR Selector: Press this button to use the remote control for operation of the AVR35.*



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Note that the button will briefly turn red after it has been pressed to confirm your selection. c Device Control Selectors: Press one of these buttons to use the remote to control the functions of another audio/video device. Note that the button will briefly turn red after it has been pressed to confirm your selection. (See pages 2831 for information on programming the AVR35's remote to operate these devices.) d Power Button: Press this button to turn the currently selected device on or off.

e Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR35 will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order: 90 min 30 min 80 min 20 min 70 min 10 min 60 min 5 min 50 min 1 min 40 min OFF i < /Channel Button: This button is used to start the process of setting the AVR35's output levels to an external source. Once this button is pressed, use the //⏏ buttons h to select the channel being adjusted, then press the Set button j, followed by the //⏏ buttons again to change the level letting.

(See page 27 for more information.)

) j Set Button: This button is used to enter settings into the AVR35's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. (See pages 1721 for complete information.) k Night Mode: Press this button to activate the "Night" mode, preventing loud playback when the digital modes are in use without altering the dynamic range of the output signal. l Source Selectors: Press these buttons to select an input source for the AVR35.

The AM/FM button is also used to switch between frequency bands when the tuner is in use. NOTE: Pressing one of these buttons selects the source only. In order to control the actual source machine using the remote you must press the Device Control Selector button c for the desired product. m +10 Button: This button does not have a function for the AVR35, but when the remote is used to control certain CD players, TV sets and VCRs it may be used to select tracks or channel numbers n Numeric Keys: These buttons serve as a ten-button numeric keypad to enter tuner preset positions. They are also to be 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. f Channel //⏏ Buttons: When the remote is being used to control a TV, VCR or Cable box, press these buttons to change the channel being viewed. g Surround Mode Selector: Press this button to begin the process of changing the surround mode. After the button has been pressed, use the //⏏ buttons h to select the desired surround mode. (See page 24 for more information.) h //⏏ Buttons: These are multipurpose buttons.

They will be used most frequently to select a surround mode. To change the surround mode, first press the SURR button g. Next press these buttons to scroll up or down through the list of surround modes that appear in the Information Display 3 (See page 24 for more 3. information.) These buttons are also used to increase or decrease output levels used to lower the AVR35's output levels when configuring the unit with either the internal test tone or an external source. (See pages 19 and 26 for more information.) They are also used to enter delay time settings after the Delay button x has been pressed. (See page 20 for more information.) Remote Control Functions 13 o Info Button: This button does not function with the AVR35, but it may be used when the remote is used to control other products. p Clear Button: This button does not function with the AVR35, but it is available for use with other devices.

q Memory Button: Press this button to enter a radio station into the AVR35's preset memory. After pressing the button the MEMORY indicator N will flash, and you then have five seconds to enter a present memory location using the Numeric Keys n. (See page 26 for more information.) r 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 v will move the frequency up or down in single-step increments.

When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception, as indicated by the MONO indicator Q. (See page 26 for more information.) s Direct : Press this button to select a radio station by entering its frequency using the Numeric Keys n. (See page 26 for more information.) t Enter: This button does not function with the AVR35, but it is available for use with other devices.

u Preset Up/Down: When the tuner is in use, these buttons scroll through the stations that have been programmed into the AVR35's memory. When many source devices, such as CD players, VCRs and cassette decks, are selected using the Device Control Selectors c, these buttons will normally function as chapter step or track advance. v 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 r has been pressed so that the AUTO indicator O is illuminated, pressing these 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 singlestep increments. (See page 26 for more information.) w Transport Controls: These controls do not control any functions of the AVR35, but they are used extensively when operating a wide variety of CD players, cassette decks and VCRs. (See page 28 for information on programming the remote to utilize these buttons.) x Delay/Prev Ch.: Press this button to begin the process for setting the delay times used by the AVR35 when processing surround sound.

After pressing this button the delay times are entered by pressing the Set button j, and then using the //⏏ buttons h to change the setting. Press the Set button again to complete the process. (See page 20 for more information.) y >/Digital Button: This button is used to select the type of digital input used with any one of the input sources connected to the AVR35. After pressing this button, use the //⏏ buttons h to make your selection between OPTICAL E or COAXIAL G digital. Press the Set button j to enter your choice. (See page 24 for more information.) z Speaker Configuration: Press this button to begin the process of configuring the AVR35's Bass Management System for use with the type of speakers used in your system. Once the button has been pressed, use the //⏏ buttons h to select the channel you wish to set up. Press the Set button j, and then select another channel to configure.

When all adjustments have been completed, press the Set button twice to exit the settings and return to normal operation.



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(See page 17 for more information.) **Mute:** Press this button to momentarily silence the AVR35 or TV set being controlled, depending on which device has been selected. When the AVR35 remote is being programmed to operate another device, this button is pressed with the Device Control Selector button c to begin the programming process. (See page 28 for more information on programming the remote.)

**Volume:** Press these buttons to raise or lower the system volume. **Test:** Press this button to begin the sequence used to calibrate the AVR35's output levels. (See page 19 for more information on calibrating the AVR35.) **TV/VCR:** This button does not function with the AVR35, but it is available for use with other devices. **Installation and Connections 14 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.

These steps need to be done only when the receiver is first installed, or when a change is made to the input source equipment. **Audio Equipment Connections** We recommend that you use high-quality interconnect cables when making connections to source equipment and recorders to preserve the quality of the signals. When making connections to audio source equipment or speakers it is always a good practice to unplug the unit from the AC wall outlet. This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them. 1. Connect the analog output of a CD player to the CD inputs. **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 high that the signal is distorted. 2. Connect the Play/Out jacks of a cassette deck, MD or other audio recorder to the Tape Monitor In jacks a. Connect the Record/In jacks on the recorder to the Tape Monitor Out jacks b on the AVR35.

3. Connect the output of any digital sources to be used to the appropriate connections on the AVR35 rear panel. Note that the Optical and Coaxial digital inputs fl may be used with either a Dolby Digital (AC-3) source or the output of a conventional CD or LV player's PCM (SP/DIF) output. 4. Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM and GND screw terminals j. 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 the receiver and the speaker.

Similarly, the "positive" or "red" wire should be connected to the like terminal on the AVR35 and speaker. We also recommend that the length of cable used to connect speaker pairs be identical. For example, use the same length piece of cable to connect the front left and front right or surround left and surround right speakers, even if the speakers are a different distance from the AVR35. 5. Connect an FM antenna to the FM (75 ohm) connection TM.

The FM antenna may be an external roof antenna, an inside powered or wire lead antenna or a connection from a cable TV system. Note that if the antenna or connection uses 300-ohm twin-lead cable, you must use the 300-ohm-to-75-ohm adapter supplied with the unit to make the connection. 6. Connect the front, center and surround speaker outputs · a, to the respective speakers. To assure that all the audio signals are carried to your speakers without loss of clarity or resolution, we suggest that you use high-quality speaker cable. Many brands of cable are available, and the choice of cable may be influenced by the distance between your speakers and this receiver, the type of speakers you use, personal preferences and other factors. **Installation and Connections 15 NOTE:** While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase, and optimal performance, consult the identification plate on your speaker, or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer. 7.

Connections to a subwoofer are made via a line-level audio connection from the Subwoofer Output ¶ to the linelevel input of a subwoofer with a built-in amplifier. If a passive subwoofer is used, the connection first goes to a power amplifier, which will be connected to one or more subwoofer speakers. **Video**

**Equipment Connections** Video equipment is connected in a fashion similar to audio components. Again, the use of high-quality interconnect cables is recommended to preserve signal quality. 1. Connect a VCR's audio and video Play/Out jacks to the Video 1 In jacks £ on the rear panel. The audio and Record/Out jacks on the VCR should be connected to the Tape Monitor Out jacks b on the AVR35. 2. Connect the audio and video outputs of a satellite receiver, cable TV converter or television set or any other video source to the Video 2 In jacks >. 3.

Connect the audio and video outputs of a DVD or laser disc player to the DVD jacks §. 4. Connect the TV Monitor Out fi jacks on the receiver to the video input of your television monitor or video projector. **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 high-current draw equipment such as power amplifiers.

The total power draw may not exceed 50W to each outlet. The Switched ✕ outlet will receive power only when the unit is on. This is recommended for devices that have no power switch, or a mechanical power switch that may be left in the "ON" position. **NOTE:** Devices with electronic power switches may only go into a Standby mode when plugged in here. The Unswitched / outlet will receive power as long as the unit is plugged into a powered AC outlet.

Finally, when all connections are complete, plug the power cord into a nonswitched 120-volt AC wall outlet.



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You're almost ready to enjoy the AVR35! System and Power Connections The AVR35 is designed for flexible use with external control components and power amplifiers. These connections are easy to make during an initial installation, or at a later date should you choose to upgrade your system. Remote Control Extension If the receiver is placed behind a solid or smoked glass cabinet door, the obstruction may prevent the remote sensor from receiving commands. In this event, an optional remote sensor may be used. Connect the output of the remote sensor to the Remote Cont. In jack °. If other components are also prevented from receiving remote commands, only one sensor is needed. They may use this unit's sensor or a remote eye by running a connection from the Remote Cont. Out jack · to the Remote In jack on Harman Kardon or other compatible equipment.

System Configuration 16 When all audio, video and system connections have been made, there are a few configuration adjustments to be made. A few minutes spent to correctly configure and calibrate the unit will greatly add to your listening experience. Speaker Selection and Placement The placement of speakers in a multichannel-home-theater system can have a noticeable impact on the quality of sound reproduced. No matter which type or brand of speakers is used, the same model or brand of speaker should be used for the front left, center and right speakers. This creates a seamless front soundstage, and eliminates the possibility of distracting sonic disturbances that occur when a sound moves across mismatched front-channel speakers. Speaker Placement Depending on the type of center-channel speaker in use and your viewing device, place the center speaker 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 and right front speakers so that they are as far away from one another as the centerchannel speaker is from the preferred listening position. Ideally, the frontchannel speakers should be placed so that their tweeters are no more than 24" off center from the tweeter in the centerchannel speaker. Depending on the specifics of your room acoustics and the type of speakers in use, you may find that imaging is improved by moving the front left and 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 pans 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 as opposed 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 seated in the desired area. If side wall mounting is not practical, the speakers may be placed on a rear wall, behind the listening position. Again, they should be located so that the bottom of the cabinet is at least two feet higher than the listeners' ears. The speakers should be no more than six feet behind the rear of the seating area. Subwoofers produce non-directional sound, so they may be placed almost anywhere in a room.

Subwoofer placement is highly influenced by room size and shape, and the type of subwoofer used. Follow the instructions of the subwoofer's manufacturer, or experiment with the best location for a subwoofer in your listening room. Center Front Speaker No more than 24" Left Front Speaker Right Front Speaker

A) Front-Channel Speaker Installation with Direct-View TV Sets or Rear-Screen Projectors TV or Projection Screen Left Front Speaker Center Front Speaker Right Front Speaker No more than 6 feet when rear-mounted speakers are used Optional Rear Wall Mounting B) The distance between the left and right speakers should be equal to the distance from the seating position to the viewing screen. You may also experiment with placing the left and right speakers slightly forward of the center speaker. At least 6 inches from ceiling At least 2 feet System Configuration 17 System Setup Once the speakers have been placed in the room and connected, the final step in the setup process is to enter the settings that configure the AVR35's bass management system for the type of speakers used in your system, the calibration of the output levels and the delay times used by the surround sound processor. Before proceeding further, this is a good time to review the installation section of the manual to make certain that all connections are properly made. You are now ready to power up the AVR35 to begin these final adjustments. 1. Plug the Power Cable < into an unswitched AC outlet. 2.

Press the Main Power Switch 1 in so that it latches in with the "OFF" wording on the top of the switch inside the front panel. Note that the Power Indicator 3 will turn amber, indicating that the unit is in the Standby mode. 3. Install the three supplied AAA batteries in the remote as shown. Be certain to observe the (+) and (-) polarity indicators shown in the bottom of the battery compartment. 4. Turn the AVR35 on either by pressing the System Power Control 3 on the front panel, or via the remote by first pressing the AVR Selector a, and then pressing the Power button d . The Power Indicator 3 will turn green to confirm that the unit is on, and the Information Display will also light up. Speaker Configuration The first few adjustments tell the AVR35 which type of speakers are in use. This is important as it adjusts the settings that determine which speakers receive lowfrequency (bass) information.

For each of these settings use the LARGE setting if the speakers for a particular position are traditional full-range loudspeakers that are capable of reproducing sounds below 100Hz. Use the SMALL setting for smaller, frequency-limited satellite speakers that do not reproduce sounds below 100Hz. Note that when "small" speakers are used, a subwoofer is required to reproduce low-frequency sounds. Remember that the "large" and "small" descriptions do not refer to the actual physical size of the speakers, but their ability 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.

With the AVR35 turned on, follow these steps to configure the speakers: 1.



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Put the AVR35 in the Dolby Pro Logic mode by pressing the Dolby Pro Logic Selector  $\hat{O}$  on the front panel or by pressing the Surround Mode Selector  $g$  on the remote, followed by the  $//\boxtimes$  buttons  $h$  until PRO LOGIC appears in the Main Information Display  $S$  and the PRO LOGIC indicator  $F$  lights. 2. Press the Speaker button  $z$  on the remote or front panel. The words FRNT SPEAKER will appear in the Main Information Display  $S$ .

3. Press the Set button  $j \sim$ . 4. @@@@5. @6. @@@@7. @8. @@@@9. @@10. @@Select S-W SP ON if a subwoofer is connected to your system.

Select S-W SP OFF if a subwoofer is NOT connected to your system. @@Otherwise, no low-frequency sounds will be heard. @@@@@@@IMPORTANT NOTE: Many listeners are often confused about the operation of the surround channels. While some assume that sound should always be coming from each speaker, most of the time there will be little or no sound in the surround channels. This is because they are only used when a movie director or sound mixer specifically places sound there to create ambiance, an effect or to continue action from the front of the room to the rear. When the output levels are properly set it is normal for rear/surround speakers to operate only occasionally. Artificially increasing the volume to the rear speakers may destroy the illusion of an enveloping sound field that duplicates the way you hear sound in a movie theater or concert hall. Before beginning the adjustment process make certain that all speaker connections have been properly made. The system volume should be set to the level that you will use during a typical listening session. Finally, make certain that the Balance Control 7 is set to the center "12 o'clock" position.

To adjust and calibrate the output levels, follow these steps. For accurate calibration, it is a good idea to make these adjustments from the location in your room that is your favorite listening position: 1. Put the AVR35 in the Dolby Pro Logic mode by pressing the Dolby Pro Logic Selector  $\hat{O}$  on the front panel or by pressing the Surround Mode Selector  $g$  on the remote, followed by the  $//\boxtimes$  buttons  $h$  until PRO LOGIC appears in the Main Information Display  $S$  and the PRO LOGIC indicator  $F$  lights. 2. Press the Test Tone button  $\hat{O}$  on the remote or front panel.

The words T-T FL 0dB will appear in the Main Information Display  $S$ , and the letters FL will flash once each second. 3. At this point, the test noise will begin to circulate among all the speakers in a clockwise rotation. NOTE: This is a good time to verify that the speakers have been properly connected. As the test noise circulates, listen to make certain that the sound comes from the speaker position shown in the Main Information Display.

If the sound from a speaker location does NOT match the position indicated in the display, turn the AVR35 off and check the speaker wiring to make certain that each speaker is connected to the correct output terminal. 4. After checking for speaker placement, let the test noise circulate again, and listen to see which channels sound louder than the others. Using the front left (FL in the display) speaker as a reference, press the  $//\boxtimes$  buttons  $h$  on the remote or the Selector buttons  $z$  on the front panel on each channel to begin to bring them to the same level. Note that when one of the buttons is pushed, the test noise circulation will pause on the channel being adjusted to give you time to make the adjustment. When you release the button, the circulation will resume. 5. Continue to adjust the individual speakers until they all have the same volume. Note that adjustments should be made with the  $//\boxtimes$  buttons  $h$  on the remote or the Selector buttons  $z$  on the front panel only, NOT the main volume controls. Then press the Set button  $j \sim$  to memorize the change.

If you are using a sound pressure (SPL) meter for precise level adjustment, set the volume so that the meter reads 75dB, C-Weighting Slow. NOTE: The subwoofer output level is not adjustable using the test tone. To change the subwoofer level, follow the steps for Output Level Trim Adjustment on page 27. 6.

When you have adjusted the outputs so that all channels have the same level, press the Test Tone button  $\hat{O}$  on the remote or front panel to complete the adjustment. System Configuration 20 Delay Settings One aspect of the surround modes is the delay of audio signals between the front speakers and the rear speakers. Each surround mode is factory preset with a specific delay time, but it is possible to individually adjust the delay timing to custom tailor the sound to your individual taste and the acoustic conditions in your listening room or home theater. The factory setting is appropriate for most rooms, but some installations create an uncommon distance between the front and surround speakers that may cause the arrival of front channel sounds to become disconnected from surround channel sounds. To resynchronize the front and surround channels, follow these steps: 1. Measure the distance from the listening/viewing position to the front speakers.

2. Measure the distance from the listening/viewing position to the surround speakers. 3. Subtract the distance to the surround speakers from the distance to the front speakers. a.

When setting the delay time for the Dolby Digital surround mode, the optimal delay time is the resulting figure. For example, if the front speakers are ten feet away and the surround speakers are five feet away, the optimal delay time is figured as  $10 - 5 = 5$ . Thus, in this example, the delay should be set at five milliseconds. b. When setting the delay time for the Pro Logic mode, take the result of the subtraction and add 15 to obtain the optimal delay time.

For example, if the front speakers are ten feet away and the surround speakers are five feet away, the optimal delay time is figured as  $10 - 5 + 15 = 20$ . Thus, in this example, the delay should be set at twenty milliseconds. The Dolby Digital mode also provides a separate setting for the center-channel delay mode, since the discrete nature of Dolby Digital signals makes the location of the center-channel speaker more critical. To calculate the delay for the center channel, measure the distance from the preferred listening position in the center of the room to both the centerchannel speaker and either the left or right speaker.

NOTE: The Theater, Hall 1 and Hall 2 modes use a fixed, non-adjustable delay time. If the distances are equal no further adjustment is required and the center delay should be set to zero. If the distance to the front speakers is greater than the distance to the center speaker you may wish to reposition the speakers by moving the front left/right speakers closer to the listening position or the center speaker further away from the listening position. If repositioning of the speakers is not possible, adjust the center delay time so that you add one millisecond of centerchannel delay for each foot that the distance to the center speaker lags behind the front speakers.



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For example, if the front left/right speakers are each 10 feet from the listening position and the center-channel speaker is 8 feet away, the delay is figured as  $108=2$ , suggesting an optimal center delay of 2 milliseconds. To set the delay times, follow these steps: 1.

Put the AVR35 in the Dolby Pro Logic mode by pressing the Dolby Pro Logic Selector  $\acute{O}$  on the front panel, or by pressing the Surround Mode Selector  $g$  on the remote, followed by the  $//\text{⌂}$  buttons  $h$  until PRO LOGIC appears in the Main Information Display  $S$  and the PRO LOGIC indicator  $F$  lights. 2. Press the Delay button  $x$   $i$  on the remote or front panel. The words  $S$  DELAY TIME will appear in the Main Information Display  $S$ . System Configuration 21 3. Press the Set button  $j$   $\sim$ . 4. Adjust the delay time by pressing the  $//\text{⌂}$  buttons  $h$  on the remote or the Selector buttons  $,$  on the front panel, until the delay time figure calculated using the formula entered above appears in the display. 5. If no adjustment is needed for the center-channel delay, press the Set button  $j$   $\sim$  to enter the setting into the AVR35's memory.

If the calculations outlined above for the center-0channel delay require an adjustment, proceed with the following steps: 6. Select a digital input by pressing the Digital button  $y$   $\wedge$ . Press the  $//\text{⌂}$  buttons  $h$  on the remote or the Selector buttons  $,$  on the front panel until either COAX or DIGITAL appear in the Main Information Display  $S$ . Note that for this adjustment, either input may be selected. 7.

Press the Set button  $j$   $\sim$ . 8. Select the Dolby Digital mode either by pressing the front panel Dolby Digital Selector ( or by pressing the Surround Mode Selector  $y$  on the remote, and then pressing the  $//\text{⌂}$  buttons  $h$  on the remote until DOLBY AC-3 appears in the Main Information Display  $S$ . Ignore any "NO DATA" message that may appear. 9.

Press the Delay button  $x$   $i$  on the remote or front panel. The words  $S$  DELAY TIME appears in the Main Information Display  $S$ . 10. Press the  $//\text{⌂}$  buttons  $h$  on the remote once, so that  $C$  DELAY TIME appears in the Main Information Display  $S$ . 11. Press the Set button  $j$   $\sim$ . 12. Press the  $//\text{⌂}$  buttons  $h$  on the remote until the desired delay time for the center channel appears in the display. 13. Press the Set button  $j$   $\sim$  to enter the setting into the AVR35's memory.

Congratulations! You have now completed the setup, adjustment and calibration of the AVR35. You are now ready to enjoy the finest in music and home-theater listening. Operation 22 Basic Operation Once you have completed the setup and configuration of your new receiver, it is simple to operate and enjoy.

The following instructions will provide the steps needed to enjoy the AVR35: · When using the AVR35 for the first time, it is necessary to press the Main Power button  $1$  on the front panel to turn the unit on. This places the unit in a standby mode, as indicated by the amber color of the Power Indicator  $3$ . Once the unit is in standby, you may begin a listening session by pressing the System Power Control  $2$  on the front panel or the Power button  $d$  on the remote. Note that the Power Indicator  $3$  will turn green. This will turn the unit on and return it to the input source that was last used. The unit may also be turned on from standby by pressing any of the Source Selector buttons on the remote  $l$  or front panel  $9$  ) ! @ #. To turn the unit off at the end of a listening session simply press the System Power Control  $2$  on the front panel or the Power button  $d$  on the remote.

Power to any equipment plugged into the rear panel Switched AC Outlet  $\text{⌂}$  will be shut off and the Power Indicator  $3$  will turn amber. When the remote is used to turn the unit "off" it is actually placing the system in a standby mode, as indicated by the amber color of the Power Indicator  $3$ . When you will be away from home for an extended period of time it is always a good idea to completely turn the unit off using the front panel Main Power Switch  $1$ . Note that all preset memories are lost if the unit is left turned off with the Main Power Switch  $1$  for more than two weeks. · For private listening, plug the 1/4" stereo phone plug from a pair of stereo headphones into the front panel Headphone jack  $4$ .

· When a Video Input source is selected the video signal for that input will be routed to the TV Monitor Video Output jack  $fi$  and will be viewable on a TV monitor connected to the AVR35. Make certain that your TV is set to the proper input to view the signal. · To program the AVR35 for automatic turn off, press the Sleep button  $e$   $\$$ . Each press of the button will increase the time before shut down in the following sequence: 90 min 30 min 80 min 20 min 70 min 10 min 60 min 5 min 50 min 1 min 40 min OFF Source Selection · To select a source at any time, press any of the Source Selector buttons on the remote  $l$  or front panel  $9$  ) ! @ #. · The front panel Video  $3$  Inputs  $8$  may be used to connect a device such as a video game or camcorder to your home entertainment system on a temporary basis.

· When an audio source is selected the last video input used remains routed to the Video Outputs  $1$   $\epsilon$  and TV Monitor Output  $fi$ . This permits simultaneous viewing and listening to different sources. · During a listening session you may wish to adjust the Bass  $5$  and Treble  $6$  controls to suit your listening tastes. · Adjust the volume to a comfortable level using the front panel Volume Control  $\acute{U}$  or remote Volume Up/Down buttons. · To temporarily silence all speaker outputs press the Mute button  $\`{U}$ . This will cut the output to all speakers, but it will not effect any recording or dubbing that may be in progress. When the system is muted the MUTE indicator  $A$  will light in the Information Display. Press the Mute button  $\`{U}$  again to return to normal operation. The sleep time will be displayed in the Information Display and it will count down until the time has elapsed. When the programmed time has elapsed the unit will automatically turn off.

Note that the front panel display will dim to one half brightness when the Sleep function is programmed. To cancel the Sleep function, press the Sleep button  $e$   $\$$  until the information display returns to normal brightness and the Sleep indicator numbers disappear. Surround Mode Selection One of the most important features of the AVR35 is its ability to reproduce a full multichannel surround sound field from Dolby Digital sources, analog matrix surround encoded programs and standard stereo programs. In all a total of seven listening modes are available on the AVR35. Operation 23 Selection of a surround mode is based on personal taste, as well as the type of program source material being used. For example, motion pictures or TV programs bearing the logo of one of the major surround encoding processes, such as Dolby Surround, DTS Stereo or UltraStereo may be played in either the Dolby Digital, Dolby Pro Logic or Movie Surround depending on the source material.



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